Prepared for

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

On Behalf of

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1200 Veterans Memorial Highway
Hauppauge, New York 11788

OCT 4 1996
HAZARDOUS WASTE REMEDIATION
REGION 1

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 IV

APPENDIX F

TEST PAD DOCUMENTATION

SUB APPENDIX F–1

SOIL TEST LOGS

GeoSyntec Consultants

TOWN OF HUNTINGTON

SOIL SAMPLE LOG FOR TEST PAD

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

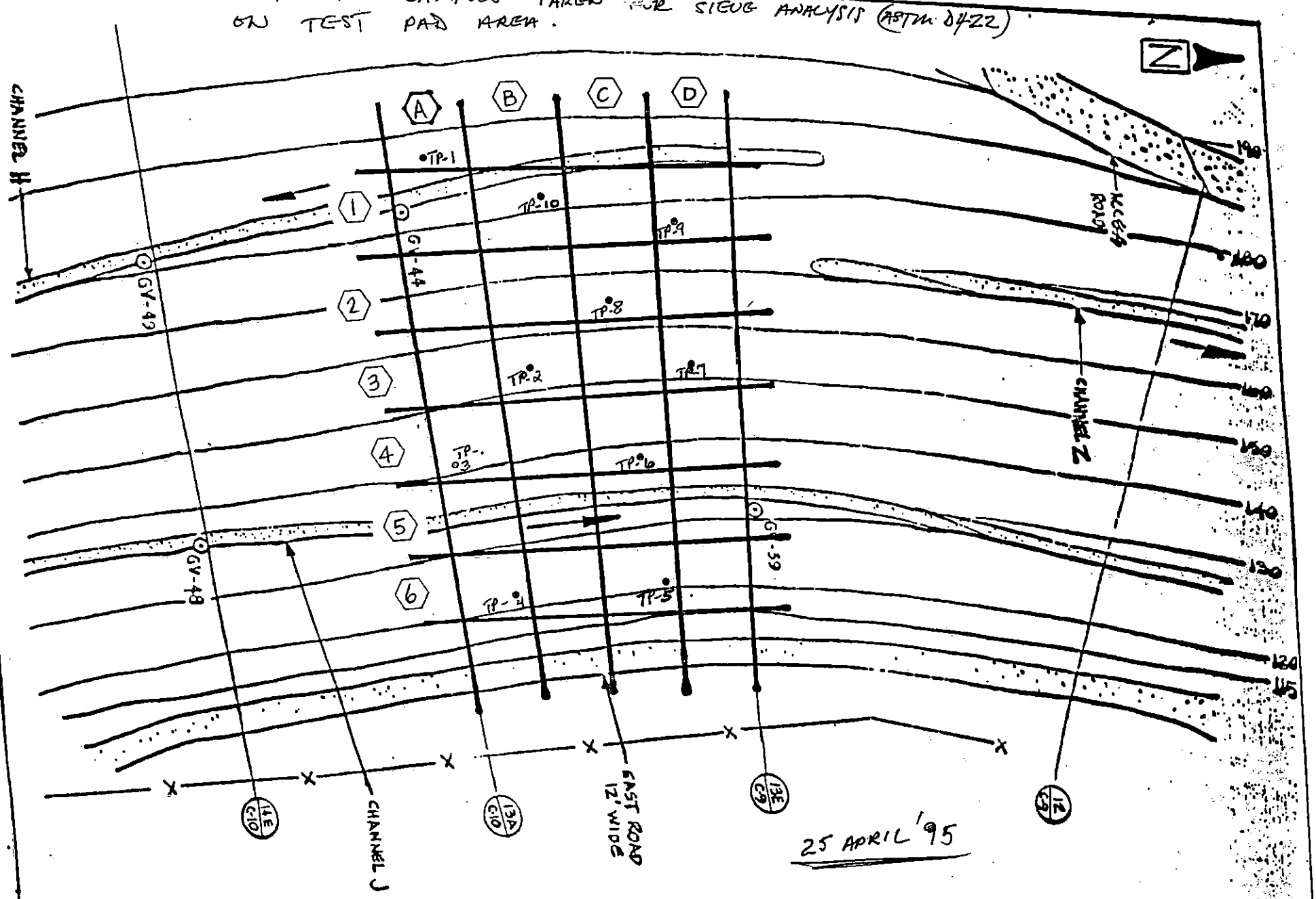
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 25 day 04 month 95 year

SITE SAMPLE NO.	OFF-SITE LAB SAMPLE NO.	SOIL DESCRIPTION	SOURCE (LOCATION, DEPTH, ELEVATION)	MATERIAL TYPE	DATE (day/mo)	TEST METHODS	QA ID
TP-1		BROWN SILTY SAND	R. SCHLEIDER / SEE GRID	COMMON FILL	25/04	ASTM D 422	D/R
TP-2		BROWN SILTY SAND	R. SCHLEIDER	COMMON FILL	25/04	ASTM D 422	D/R
TP-3		BROWN SILTY SAND	R. SCHLEIDER	COMMON FILL	25/04	ASTM D 422	D/R
TP-4		BROWN SILTY SAND	R. SCHLEIDER	COMMON FILL	25/04	ASTM D 422	D/R
TP-5		BROWN SILTY SAND	R. SCHLEIDER	COMMON FILL	25/04	ASTM D 422	D/R
TP-6		BROWN SILTY SAND	R. SCHLEIDER	COMMON FILL	25/04	ASTM D 422	D/R
TP-7		BROWN SILTY SAND	R. SCHLEIDER	COMMON FILL	25/04	ASTM D 422	D/R
TP-8		BROWN SILTY SAND	R. SCHLEIDER	COMMON FILL	25/04	ASTM D 422	D/R
TP-9		BROWN SILTY SAND	R. SCHLEIDER	COMMON FILL	25/04	ASTM D 422	D/R
TP-10		BROWN SILTY SAND	R. SCHLEIDER	COMMON FILL	25/04	ASTM D 422	D/R
TP-11		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	15/05	ASTM D 422	D/R
TP-12		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	15/05	ASTM D 422	D/R
TP-13		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	15/05	ASTM D 422	D/R
TP-14		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	15/05	ASTM D 422	D/R
TP-15		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	15/05	ASTM D 422	D/R

NOTES:

LOCATION FOR SAMPLES TAKEN FOR SIEVE ANALYSIS (ASTM D422) ON TEST PAD AREA.



TEST PAD LOCATION MAP (30' GRID)

SCALE 1" = 50'

GEOSYNTEC CONSULTANTS

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TOWN OF HUNTINGTON

SOIL SAMPLE LOG FOR TEST PAD

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 15 day 06 month 95 year

SITE SAMPLE NO.	OFF--SITE LAB SAMPLE NO.	SOIL DESCRIPTION	SOURCE (LOCATION, DEPTH, ELEVATION)	MATERIAL TYPE	DATE (day/mo)	TEST METHODS	QA ID
TP-16		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	15/05	ASTM D 422	D/R
TP-17		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	15/05	ASTM D 422	D/R
TP-18		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	15/05	ASTM D 422	D/R
TP-19		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	15/05	ASTM D 422	D/R
TP-20		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	15/05	ASTM D 422	D/R
TP-21		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	15/05	ASTM D 422	D/R
TP-22		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	15/05	ASTM D 422	D/R
TP-23		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	15/05	ASTM D 422	D/R
TP-24		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	15/05	ASTM D 422	D/R
TP-25		BROWN SILTY SAND	R. SCHLEIDER	ALT SELECT	15/05	ASTM D 422	D/R
TP-26		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	15/05	ASTM D 422	D/R
TP-27		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	31/05	ASTM D 422	D/R
TP-28		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	31/05	ASTM D 422	D/R
TP-29		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	31/05	ASTM D 422	D/R
TP-30		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	31/05	ASTM D 422	D/R

NOTES:

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TOWN OF HUNTINGTON

SOIL SAMPLE LOG FOR TEST PAD

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 31 day 05 month 95 year

SITE SAMPLE NO.	OFF-SITE LAB SAMPLE NO.	SOIL DESCRIPTION	SOURCE (LOCATION, DEPTH, ELEVATION)	MATERIAL TYPE	DATE (day/mo)	TEST METHODS	QA ID
TP-31		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	31/05	ASTM D 422	D/R
TP-32		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	31/05	ASTM D 422	D/R
TP-33		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	31/05	ASTM D 422	D/R
TP-34		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	31/05	ASTM D 422	D/R
TP-35		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	31/05	ASTM D 422	D/R
TP-36		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	31/05	ASTM D 422	D/R
TP-37		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	31/05	ASTM D 422	D/R
TP-38		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	31/05	ASTM D 422	D/R
TP-39		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	31/05	ASTM D 422	D/R
TP-40		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	31/05	ASTM D 422	D/R
TP-41		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	31/05	ASTM D 422	D/R
TP-42		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	31/05	ASTM D 422	D/R
TP-43		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	31/05	ASTM D 422	D/R
TP-44		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	31/05	ASTM D 422	D/R
TP-45		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	31/05	ASTM D 422	D/R

NOTES:

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TOWN OF HUNTINGTON

SOIL SAMPLE LOG

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: ____ day ____ month ____ year

SITE SAMPLE NO.	OFF-SITE LAB SAMPLE NO.	SOIL DESCRIPTION	SOURCE (LOCATION, DEPTH, ELEVATION)	MATERIAL TYPE	DATE (day/mo)	TEST METHODS	QA ID
TP-46		BROWN SILTY SAND	R. SCHLEIDER	ALT. SELECT	31/05	ASTM D422	P/R

NOTES: _____

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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 04 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: TP-1 QA ID: 21R

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)	1491.5	1422.7
WT. OF TARE	(grams)	19.2	56.6
WT. OF DRY SAMPLE	(grams)	1472.3	1366.1

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1 1/2"	37.5	0.0	0.0	100.0	(10" MAX.)
1"	25.0	28.9	2.0	98.0	
3/4"	19.0	74.5	5.1	94.9	
1/2"	12.5	137.5	9.3	90.7	
3/8"	9.5	191.1	13.0	87.0	
4	4.75	313.4	21.3	78.7	
10	2.0	449.4	30.5	69.5	
20	0.850	630.2	42.8	57.2	
40	0.425	966.6	65.7	34.3	≤ 35 %
60	0.250	1236.4	84.0	16.0	
100	0.150	1334.2	90.6	9.4	
200	0.075	1364.8	92.7	7.3	≤ 20 %

%FINER = 100 - Σ% RETAINED

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 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: TP-2 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)	1295.0	1209.1
WT. OF TARE	(grams)	19.0	59.4
WT. OF DRY SAMPLE	(grams)	1276.0	

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	(10" MAX)
3/4"	19.0	54.0	4.2	95.8	
1/2"	12.5	120.6	9.5	90.5	
3/8"	9.5	167.8	13.2	86.8	
4	4.75	288.1	22.6	77.4	
10	2.0	411.1	32.2	67.8	
20	0.850	555.9	43.6	56.4	
40	0.425	817.5	64.1	35.9	≤ 75 %
60	0.250	1027.1	80.5	19.5	
100	0.150	1113.3	87.2	12.8	
200	0.075	1147.3	89.9	11.1	≤ 20 %

%FINER = 100 − Σ% RETAINED

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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 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: TP-3 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)	1886.5	2057.2
WT. OF TARE	(grams)	19.0	314.7
WT. OF DRY SAMPLE	(grams)	1867.5	1742.5

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0	(10" MAX.)
1 1/2"	37.5	81.1	4.3	95.7	
1"	25.0	196.6	10.5	89.5	
3/4"	19.0	251.0	13.4	86.6	
1/2"	12.5	354.9	19.0	81.0	
3/8"	9.5	440.2	23.4	76.6	
4	4.75	591.0	31.6	68.4	
10	2.0	630.8	33.8	66.2	
20	0.850	918.7	49.2	50.8	
40	0.425	1278.7	68.5	31.5	≤ 75%
60	0.250	1582.0	84.7	15.3	
100	0.150	1699.5	91.0	9.0	
200	0.075	1739.9	93.2	6.8	≤ 20%

%FINER = 100 − Σ% RETAINED

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 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: TP-4 QA ID: 7/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)	1674.7	1567.2
WT. OF TARE	(grams)	18.6	59.5
WT. OF DRY SAMPLE	(grams)	1656.1	1507.7

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0%	(6" MAX)
1 1/2"	37.5	0.0	0.0	100.0%	
1"	25.0	56.4	3.4	96.6%	
3/4"	19.0	81.0	4.9	95.1%	
1/2"	12.5	155.6	9.4	90.6%	
3/8"	9.5	211.6	12.8	87.2%	
4	4.75	349.8	21.1	78.9%	
10	2.0	493.2	29.8	70.2%	
20	0.850	692.0	41.8	58.2%	
40	0.425	1052.1	63.5	36.5%	≤ 75%
60	0.250	1349.3	81.5	18.5%	
100	0.150	1463.6	88.4	11.6%	
200	0.075	1506.0	90.9	9.1%	≤ 20%

%FINER = 100 − Σ% RETAINED

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 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: Common Fill SAMPLE NO.: TP-5 QA ID: 2 1 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)	2599.1	2625
WT. OF TARE	(grams)	18.6	314.8
WT. OF DRY SAMPLE	(grams)	2580.5	2310.2

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0 %	(10" MAX)
1½"	37.5	0.0	0.0	100.0 %	
1"	25.0	106.3	4.1	95.9 %	
3/4"	19.0	193.1	7.5	92.5 %	
1/2"	12.5	306.4	11.9	88.1 %	
3/8"	9.5	396.9	15.4	84.6 %	
4	4.75	627.6	24.3	75.7 %	
10	2.0	871.5	33.8	66.2 %	
20	0.850	1171.8	45.4	54.6 %	
40	0.425	1668.4	64.7	35.3 %	≤ 75 %
60	0.250	2071.2	80.3	19.7 %	
100	0.150	2234.6	86.6	13.4 %	
200	0.075	2302.2	89.2	10.8 %	≤ 20 %

%FINER = 100 − Σ % RETAINED

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 04 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: TP-6 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)	2307.1	2190.8
WT. OF TARE	(grams)	18.9	192.6
WT. OF DRY SAMPLE	(grams)	2288.2	1998.2

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0%	(10" MAX)
1½"	37.5	0.0	0.0	100.0%	
1"	25.0	0.0	0.0	100.0%	
¾"	19.0	14.8	0.6%	99.4%	
½"	12.5	78.0	3.4%	96.6%	
⅜"	9.5	161.5	7.1%	92.9%	
4	4.75	408.6	17.9%	82.1%	
10	2.0	661.8	28.9%	71.1%	
20	0.850	963.6	42.1%	57.9%	
40	0.425	1471.7	64.3%	35.7%	≤ 75 %
60	0.250	1806.6	79.0%	21.0%	
100	0.150	1937.1	84.7%	15.3%	
200	0.075	1989.7	87.0%	13.0%	≤ 20 %

%FINER = 100 − Σ% RETAINED

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: 25 day 04 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: TP-7 QA ID: 2/1

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)	2239.0	2179.7
WT. OF TARE	(grams)	19.1	193.9
WT. OF DRY SAMPLE	(grams)	2219.9	1985.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0 %	(10" MAX)
1 1/2"	37.5	0.0	0.0	100.0 %	
1"	25.0	72.9	3.3	96.7 %	
3/4"	19.0	117.5	5.3	94.7 %	
1/2"	12.5	186.0	8.4	91.6 %	
3/8"	9.5	257.0	11.6	88.4 %	
4	4.75	436.6	19.7	80.3 %	
10	2.0	646.6	29.1	70.9 %	
20	0.850	919.9	41.4	58.6 %	
40	0.425	1405.5	63.3	36.7 %	≤ 75 %
60	0.250	1778.6	80.1	19.9 %	
100	0.150	1928.0	86.9	13.1 %	
200	0.075	1979.3	89.2	10.8 %	≤ 20 %

%FINER = 100 - Σ% RETAINED

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 04 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: TP-8 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)	2434.7	2384.2
WT. OF TARE	(grams)	19.2	193.3
WT. OF DRY SAMPLE	(grams)	2415.5	2190.9

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0	(10" MAX)
1½"	37.5	169.3	7.0	93.0	
1"	25.0	267.2	11.1	88.9	
3/4"	19.0	319.3	13.2	86.8	
½"	12.5	383.6	15.9	84.1	
3/8"	9.5	490.8	20.3	79.7	
4	4.75	686.7	28.4	71.6	
10	2.0	893.3	37.0	63.0	
20	0.850	1158.1	47.9	52.1	
40	0.425	1622.1	67.2	32.8	≤ 75 %
60	0.250	1986.1	82.2	17.8	
100	0.150	2130.9	88.2	11.8	
200	0.075	2186.0	90.5	9.5	≤ 20 %

%FINER = 100 − Σ% RETAINED

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 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: TP-9 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)	2436.4	2224.2
WT. OF TARE	(grams)	19.1	56.9
WT. OF DRY SAMPLE	(grams)	2417.3	2167.3

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0 %	(10" MAX)
1½"	37.5	0.0	0.0	100.0 %	
1"	25.0	43.3	1.8	98.2 %	
¾"	19.0	66.3	2.7	97.3 %	
½"	12.5	139.6	5.8	94.2 %	
⅜"	9.5	236.8	9.8	90.2 %	
4	4.75	477.6	19.8	80.2 %	
10	2.0	721.0	29.8	70.2 %	
20	0.850	1029.6	42.6	57.4 %	
40	0.425	1552.2	64.2	35.8 %	≤ 75 %
60	0.250	1955.1	80.9	19.1 %	
100	0.150	2122.7	87.8	12.2 %	
200	0.075	2165.5	89.6	10.4 %	≤ 20 %

%FINER = 100 - Σ% RETAINED

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 04 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: TP-10 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)	2432.9	2117.0
WT. OF TARE	(grams)	19.2	59.7
WT. OF DRY SAMPLE	(grams)	2413.7	2057.3

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0 %	(10" MAX)
1 1/2"	37.5	0.0	0.0	100.0 %	
1"	25.0	73.3	3.0	97.0 %	
3/4"	19.0	83.6	3.5	96.5 %	
1/2"	12.5	141.6	5.9	94.1 %	
3/8"	9.5	205.7	8.5	91.5 %	
4	4.75	434.9	18.0	82.0 %	
10	2.0	683.4	28.3	71.7 %	
20	0.850	984.3	40.8	59.2 %	
40	0.425	1459.3	60.5	39.5 %	≤ 75 %
60	0.250	1832.3	76.0	24.0 %	
100	0.150	1993.6	82.6	17.4 %	
200	0.075	2054.0	85.0	15.0 %	≤ 20 %

%FINER = 100 − Σ % RETAINED

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 05 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: Agg. Select SAMPLE NO.: TP-11 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)	2384.1	2248.3
WT. OF TARE	(grams)	57.0	57.9
WT. OF DRY SAMPLE	(grams)	2327.1	2190.4

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 %	100.0 %
1/2"	12.5	71.5	3.1	96.9 %	
3/8"	9.5	164.0	7.0	93.0 %	
4	4.75	411.5	17.7	82.3 %	
10	2.00	673.5	28.9	71.1 %	
20	0.850	1025.0	44.0	56.0 %	
40	0.425	1579.7	67.9	32.1 %	
60	0.250	1992.6	85.6	14.4 %	
100	0.150	2136.8	91.8	8.2 %	
200	0.075	2183.9	93.8	6.2 %	

%FINER = 100 − Σ % RETAINED

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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: 15 day 05 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: TP-12 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)	2472.1	2180.4
WT. OF TARE	(grams)	57.4	59.9
WT. OF DRY SAMPLE	(grams)	2414.7	2120.5

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0	
1½"	37.5	0.0	0.0	100.0	
1"	25.0	0.0	0.0	100.0	
¾"	19.0	0.0	0.0	100.0	100.0 %
½"	12.5	43.5	1.8	98.2	
⅜"	9.5	123.8	5.1	94.9	
4	4.75	359.1	14.9	85.1	
10	2.00	619.2	25.6	74.4	
20	0.850	971.2	40.2	59.8	
40	0.425	1543.1	63.9	36.1	
60	0.250	1939.7	80.3	19.7	
100	0.150	2076.8	86.0	14.0	
200	0.075	2116.8	87.7	12.3	

%FINER = 100 − Σ % RETAINED

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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: 15 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: TP-13 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)	2458.3	2234.8
WT. OF TARE	(grams)	19.3	20.2
WT. OF DRY SAMPLE	(grams)	2439.0	2214.6

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0	
1½"	37.5	0.0	0.0	100.0	
1"	25.0	0.0	0.0	100.0	
¾"	19.0	0.0	0.0	100.0	100.0 %
½"	12.5	99.0	4.1	95.9	
⅜"	9.5	143.7	5.9	94.1	
4	4.75	408.4	16.7	83.3	
10	2.0	665.0	27.3	72.7	
20	0.850	996.3	40.8	59.2	
40	0.425	1564.4	64.1	35.9	
60	0.250	1995.9	81.8	18.2	
100	0.150	2151.4	88.2	11.8	
200	0.075	2207.7	90.5	9.5	

%FINER = 100 − Σ % RETAINED

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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: 15 day 05 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: TP-14 QA ID: 2715

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)	2579.3	2313.7
WT. OF TARE	(grams)	19.5	17.7
WT. OF DRY SAMPLE	(grams)	2559.8	2296.0

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0	
1½"	37.5	0.0	0.0	100.0	
1"	25.0	0.0	0.0	100.0	
¾"	19.0	0.0	0.0	100.0	100.0 %
½"	12.5	90.1	3.5	96.5	
⅜"	9.5	189.9	7.4	92.6	
4	4.75	441.9	17.3	82.7	
10	2.0	702.5	27.4	72.6	
20	0.850	1134.3	44.3	55.7	
40	0.425	1614.4	63.1	36.9	
60	0.250	2067.7	80.8	19.2	
100	0.150	2233.1	87.2	12.8	
200	0.075	2291.5	89.5	10.5	

%FINER = 100 − Σ % RETAINED

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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: 15 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: TP-15 QA ID: 24R

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)	2213.8	1949.9
WT. OF TARE	(grams)	65.5	17.7
WT. OF DRY SAMPLE	(grams)	2148.3	1932.2

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0	
1 1/2"	37.5	0.0	0.0	100.0	
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	100.0 %
1/2"	12.5	77.2	3.6	96.4	
3/8"	9.5	155.7	7.2	92.8	
4	4.75	365.1	17.0	83.0	
10	2.0	593.2	27.6	72.4	
20	0.850	869.6	40.5	59.5	
40	0.425	1403.1	65.3	34.7	
60	0.250	1729.4	80.5	19.5	
100	0.150	1875.2	87.3	12.7	
200	0.075	1927.5	89.7	10.3	

%FINER = 100 - Σ % RETAINED

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: 15 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: TP-16 QA ID: DJK

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)	1966.9	1683.0
WT. OF TARE	(grams)	57.4	18.9
WT. OF DRY SAMPLE	(grams)	1909.5	1664.1

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0	
1½"	37.5	0.0	0.0	100.0	
1"	25.0	0.0	0.0	100.0	
¾"	19.0	0.0	0.0	100.0	100.0 %
½"	12.5	84.3	4.4	95.6	
⅜"	9.5	119.8	6.3	93.7	
4	4.75	306.0	16.0	84.0	
10	2.0	504.7	26.4	73.6	
20	0.850	798.7	41.8	58.2	
40	0.425	1186.2	62.1	37.9	
60	0.250	1504.6	78.8	21.2	
100	0.150	1624.7	85.1	14.9	
200	0.075	1663.4	87.1	12.9	

%FINER = 100 − Σ % RETAINED

SHEET NO. 1 OF 1

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 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: TP-17 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)	2107.4	1794.3
WT. OF TARE	(grams)	59.6	18.0
WT. OF DRY SAMPLE	(grams)	2047.8	1776.3

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0	
1 1/2"	37.5	0.0	0.0	100.0	
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	100.0%
1/2"	12.5	42.7	2.1	97.9	
3/8"	9.5	107.1	5.2	94.8	
4	4.75	282.9	13.8	86.2	
10	2.0	507.2	24.8	75.2	
20	0.850	792.9	38.7	61.3	
40	0.425	1255.2	61.3	38.7	
60	0.250	1606.1	78.4	21.6	
100	0.150	1738.3	84.9	15.1	
200	0.075	1775.2	86.7	13.3	

%FINER = 100 − Σ % RETAINED

SHEET NO. 1 OF 1

GeoSyntec Consultants FILE NO. 2-14-PWS

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: 15 day 05 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT SELECT SAMPLE NO.: TP-18 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)	1762.4	1588.2
WT. OF TARE	(grams)	18.4	18.4
WT. OF DRY SAMPLE	(grams)	1744.0	1569.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0	
1½"	37.5	0.0	0.0	100.0	
1"	25.0	0.0	0.0	100.0	
¾"	19.0	0.0	0.0	100.0	100.0%
½"	12.5	73.1	4.2	95.8	
⅜"	9.5	153.5	8.8	91.2	
4	4.75	299.0	17.1	82.9	
10	2.0	477.3	27.4	72.6	
20	0.850	698.9	40.1	59.9	
40	0.425	1093.5	62.7	37.3	
60	0.250	1413.4	81.0	19.0	
100	0.150	1532.9	87.9	12.1	
200	0.075	1569.3	90.0	10.0	

%FINER = 100 - Σ% RETAINED

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 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: TP-19 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)	1739.7	1576.6
WT. OF TARE	(grams)	17.7	17.7
WT. OF DRY SAMPLE	(grams)	1722.0	1558.9

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0	
1 1/2"	37.5	0.0	0.0	100.0	
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	100.0 %
1/2"	12.5	58.6	3.4	96.6	
3/8"	9.5	136.0	7.9	92.1	
4	4.75	310.5	18.0	82.0	
10	2.0	486.9	28.3	71.7	
20	0.850	710.5	41.3	58.7	
40	0.425	1085.2	63.0	37.0	
60	0.250	1390.7	80.8	19.2	
100	0.150	1515.2	88.0	12.0	
200	0.075	1556.7	90.4	9.6	

% FINER = 100 − Σ % RETAINED

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: 15 day 05 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: TP-20 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)	1614.3	1444.3
WT. OF TARE	(grams)	17.7	17.9
WT. OF DRY SAMPLE	(grams)	1596.6	1426.4

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0	
1 1/2"	37.5	0.0	0.0	100.0	
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	100.0 %
1/2"	12.5	84.8	5.3	94.7	
3/8"	9.5	144.3	9.0	91.0	
4	4.75	290.6	18.2	81.8	
10	2.0	459.1	28.8	71.2	
20	0.850	655.3	41.0	59.0	
40	0.425	993.2	62.2	37.8	
60	0.250	1268.2	79.4	20.6	
100	0.150	1380.5	86.5	13.5	
200	0.075	1423.4	89.2	10.8	

%FINER = 100 - Σ% RETAINED

SHEET NO. 1 OF 1

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 05 month 95 year

SOURCE: R.SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: TP-21 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)	1407.8	1271.9
WT. OF TARE	(grams)	19.1	19.0
WT. OF DRY SAMPLE	(grams)	1388.7	1252.9

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0	
1½"	37.5	0.0	0.0	100.0	
1"	25.0	0.0	0.0	100.0	
¾"	19.0	0.0	0.0	100.0	100.0 %
½"	12.5	37.4	2.7	97.3	
⅜"	9.5	81.7	5.9	94.1	
4	4.750	229.1	16.5	83.5	
10	2.0	380.7	27.4	72.6	
20	0.850	565.7	40.7	59.3	
40	0.425	885.5	63.8	36.2	
60	0.250	1130.9	81.4	18.6	
100	0.150	1220.1	87.9	12.1	
200	0.075	1251.5	90.1	9.9	

%FINER = 100 − Σ % RETAINED

SHEET NO. 1 OF 1

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 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: TP-22 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)	1706.6	1543.4
WT. OF TARE	(grams)	17.9	17.8
WT. OF DRY SAMPLE	(grams)	1688.7	1525.6

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0	
1½"	37.5	0.0	0.0	100.0	
1"	25.0	0.0	0.0	100.0	
¾"	19.0	0.0	0.0	100.0	100.0 %
½"	12.5	34.6	2.0	98.0	
⅜"	9.5	111.5	6.6	93.4	
4	4.75	282.2	16.7	83.3	
10	2.0	467.7	27.7	72.3	
20	0.850	688.2	40.8	59.2	
40	0.425	1064.9	63.1	36.9	
60	0.250	1366.6	80.9	19.1	
100	0.150	1481.1	87.7	12.3	
200	0.075	1523.4	90.2	9.8	

%FINER = 100 − Σ% RETAINED

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: 15 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: TP-23 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)	1842.4	1667.5
WT. OF TARE	(grams)	21.2	21.0
WT. OF DRY SAMPLE	(grams)	1821.2	1646.5

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0	
1½"	37.5	0.0	0.0	100.0	
1"	25.0	0.0	0.0	100.0	
¾"	19.0	0.0	0.0	100.0	100.0 %
½"	12.5	76.9	4.2	95.8	
⅜"	9.5	151.4	8.3	91.7	
4	4.75	332.9	18.3	81.7	
10	2.0	526.3	28.9	71.1	
20	0.850	761.4	41.8	58.2	
40	0.425	1164.1	63.9	36.1	
60	0.250	1482.6	81.4	18.6	
100	0.150	1601.5	87.9	12.1	
200	0.075	1644.4	90.3	9.7	

%FINER = 100 − Σ % RETAINED

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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: 15 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: TP-24 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)	1628.0	1476.2
WT. OF TARE	(grams)	19.4	17.6
WT. OF DRY SAMPLE	(grams)	1608.6	1458.6

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	100.0 %
1/2"	12.5	88.6	5.5	94.5	
3/8"	9.5	119.6	7.4	92.6	
4	4.76	273.8	17.0	83.0	
10	2.0	449.3	27.9	72.1	
20	0.850	663.1	41.2	58.8	
40	0.425	1037.1	64.4	35.6	
60	0.250	1318.2	81.9	18.1	
100	0.150	1422.3	88.4	11.6	
200	0.075	1457.0	90.6	9.4	

%FINER = 100 − Σ % RETAINED

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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: GO3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 15 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: TP-25 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)	1779.6	1591.0
WT. OF TARE	(grams)	19.4	17.5
WT. OF DRY SAMPLE	(grams)	1760.2	1573.5

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0	
1½"	37.5	0.0	0.0	100.0	
1"	25.0	0.0	0.0	100.0	
¾"	19.0	0.0	0.0	100.0	100.0 %
½"	12.5	76.4	4.3	95.7	
⅜"	9.5	131.5	7.5	92.5	
4	4.750	299.4	17.0	83.0	
10	2.0	480.1	27.3	72.7	
20	0.850	713.6	40.5	59.5	
40	0.425	1148.1	65.2	34.8	
60	0.250	1448.6	82.3	17.7	
100	0.150	1543.7	87.7	12.3	
200	0.075	1577.2	89.6	10.4	

%FINER = 100 − Σ % RETAINED

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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: GO3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 15 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: TP-26 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)	1556.6	1385.8
WT. OF TARE	(grams)	19.1	17.7
WT. OF DRY SAMPLE	(grams)	1537.5	1368.1

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0	
1½"	37.5	0.0	0.0	100.0	
1"	25.0	0.0	0.0	100.0	
¾"	19.0	0.0	0.0	100.0	100.0 %
½"	12.5	29.0	1.9	98.9	
⅜"	9.5	79.4	5.2	94.8	
4	4.750	244.6	15.9	84.1	
10	2.0	408.8	26.6	73.4	
20	0.850	617.4	40.2	59.8	
40	0.425	1017.9	66.2	33.8	
60	0.250	1256.6	81.7	18.3	
100	0.150	1338.9	87.1	12.9	
200	0.075	1367.0	88.9	11.1	

%FINER = 100 − Σ % RETAINED

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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 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: TP-46 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)	1881.0	1661.1
WT. OF TARE	(grams)	21.2	20.4
WT. OF DRY SAMPLE	(grams)	1859.8	1640.7

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	100.0 %
1/2"	12.5	83.1	4.5	95.5	
3/8"	9.5	159.1	8.6	91.4	
4	4.75	343.5	18.5	81.5	
10	2.0	524.8	28.2	71.8	
20	0.850	746.7	40.1	59.9	
40	0.425	1156.9	62.2	37.8	
60	0.250	1466.8	78.9	21.1	
100	0.150	1585.8	85.3	14.7	
200	0.075	1637.9	88.1	11.9	

%FINER = 100 − Σ% RETAINED

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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: 16 day 12 month 94 year

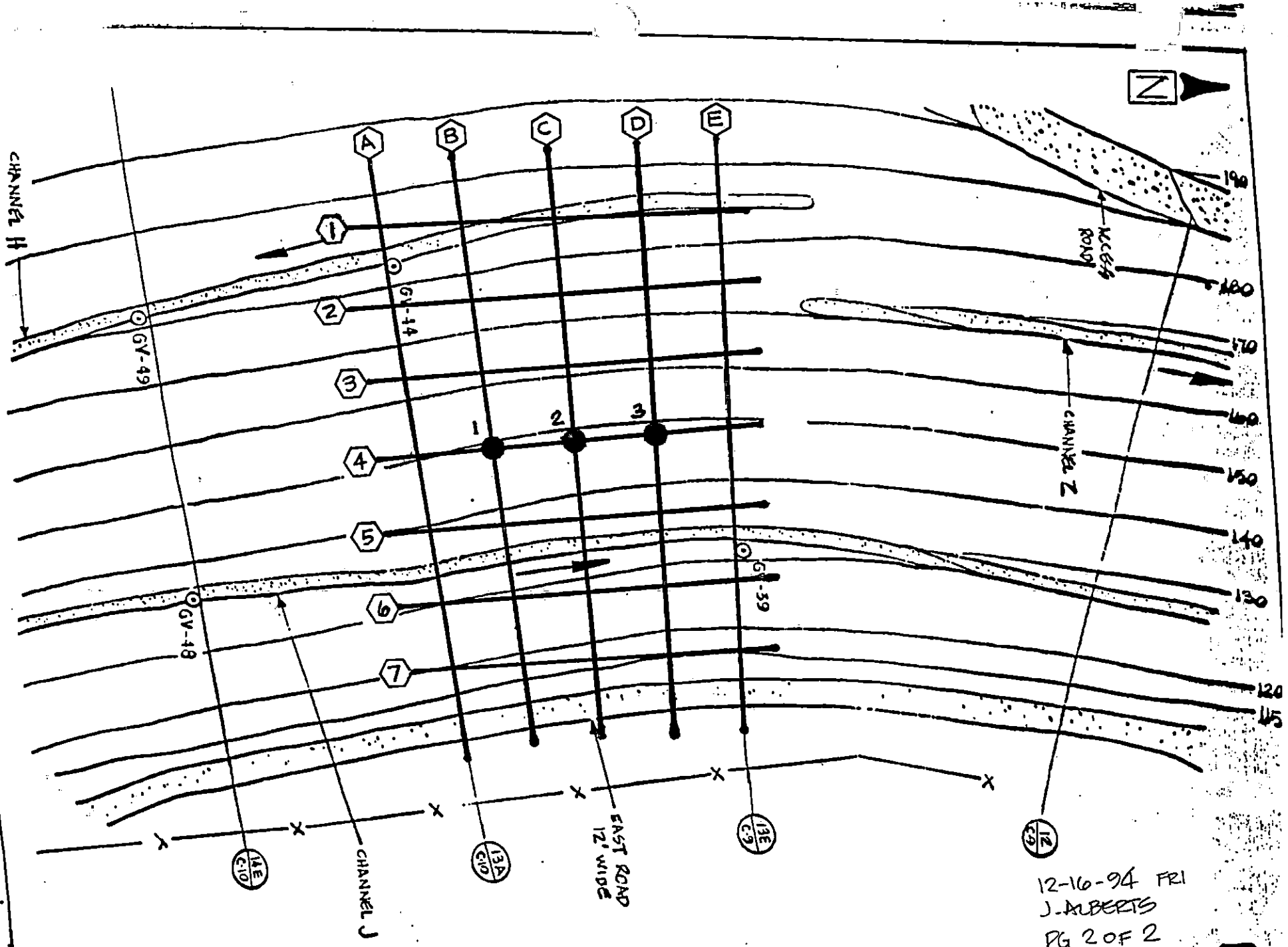
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHLEIDER CONST MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED): 12"
(CIRCLE ONE)

% COMPACTION: ≥ 90% MOISTURE RANGE: — ASTM D 698: A B C / (ASTM D 1557: A) B C —
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 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		
1	B-4 TEST PAD / 1ST LIFT	12"	11.3	115.0	7.8	127.9	118.6	100+	*	✓		(QC)/LT
2	C-4 " "	12"	11.3	115.0	8.4	125.4	115.6	100+	*	✓		(QC)/LT
3	D-4 " "	12"	11.3	115.0	7.6	129.3	120.2	100+	*	✓		(QC)/LT
* NOTE: THESE TESTS PASSED B-4 (36" LIFT), C-4 BE VERY LOOSE & AREA IN MAY		COMPACTION (22"), D-4 INSTRUCTED 12" LIFTS	BUT THEN VERIFIED (21"). FOUND JDP TO BE THESE TESTS		LIFT THICKNESS WAS: LOWER PORTION OF LIFT TO GRADE. THE TEST PAD ABOVE ARE VOID!							



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J. ALBERTS
PG 2 OF 2

TEST PAD LOCATION MAP

SCALE 1" = 50'

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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: 19 day 12 month 94 year

SPECIFICATION REQUIREMENTS

SOURCE: R. SCHLEIDER CONST MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED): 12"
(CIRCLE ONE)

% COMPACTION: ≥ 90% MOISTURE RANGE: — ASTM D 698: A B C / (ASTM D 1557: A) B C —
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 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		
1	D-5 TEST PAD / 1ST LIFT	12"	*11.0	*122.0	8.5	128.5	118.4	97	P			
2	C-5 " "	12"	11.0	122.0	9.9	129.7	118.0	97	P			
3	B-5 " "	12"	11.0	122.0	9.9	129.2	117.5	96	P			
4	A-5 " "	12"	11.0	122.0	7.9	128.7	119.2	98	P			
5	A-4 " "	12"	11.0	122.0	7.9	127.8	118.4	97	P			
6	B-4 " "	12"	11.0	122.0	9.5	128.3	117.2	96	P			
7	C-4 " "	12"	11.0	122.0	8.1	125.4	115.9	95	P			
8	D-4 " "	12"	11.0	122.0	8.1	127.7	118.1	97	P			
9	E-4 " "	12"	11.0	122.0	8.3	127.8	118.1	97	P			
10	E-3 " "	12"	11.0	122.0	7.2	124.8	116.4	95	P			
11	D-3 " "	12"	11.0	122.0	7.9	127.5	118.2	97	P			
12	C-3 " "	12"	11.0	122.0	7.9	125.5	116.3	95	P			
13	B-3 " "	12"	11.0	122.0	9.5	129.7	118.5	97	P			
14	A-3 " "	12"	11.0	122.0	8.2	124.9	115.5	95	P			

* Estimated Proctor by John Fox

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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: 19 day 12 month 94 year

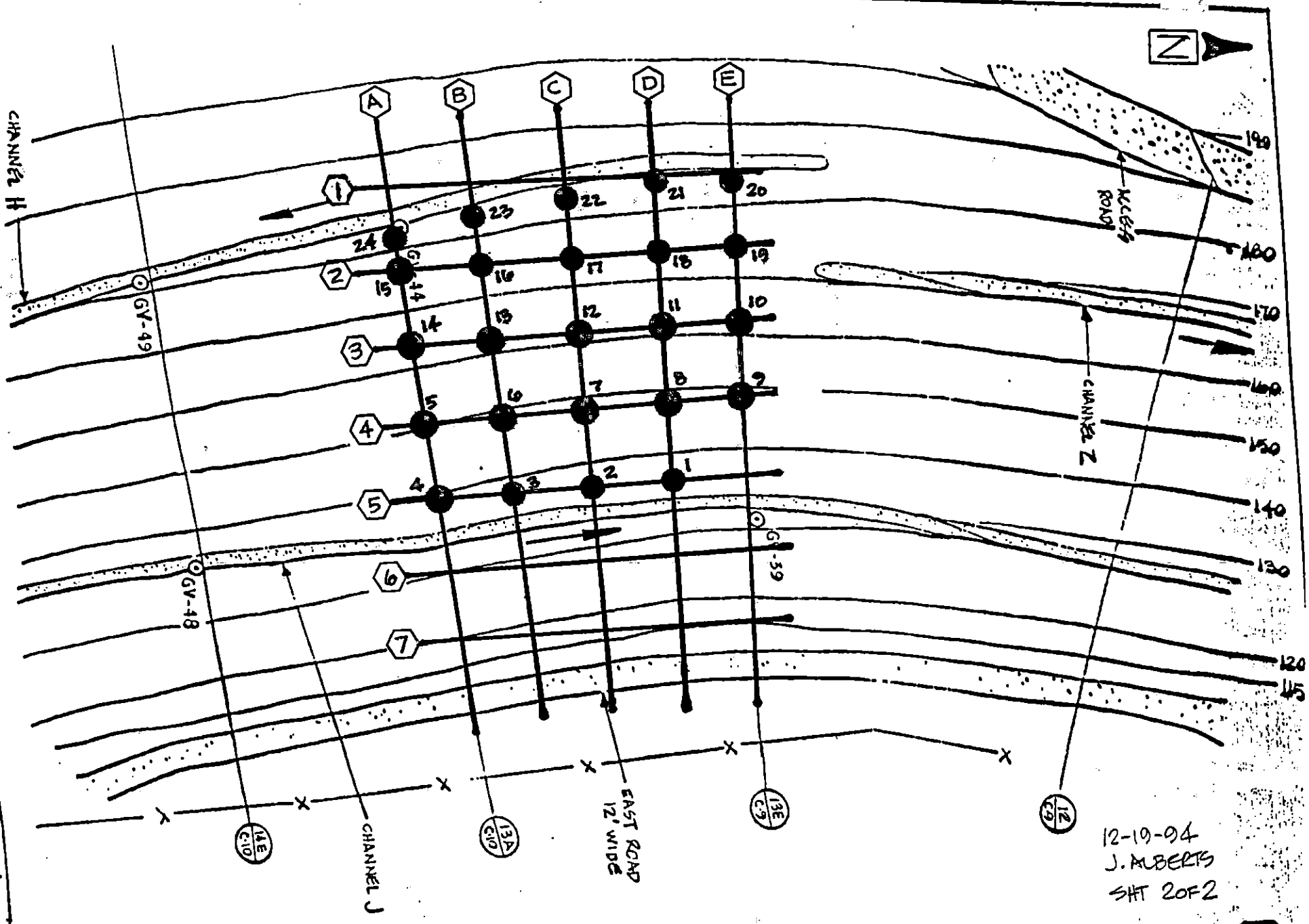
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHNEIDER CONST MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE / (COMPACTED)): 12"
(CIRCLE ONE)

% COMPACTION: ≥ 90% MOISTURE RANGE: — ASTM D 698: A B C / (ASTM D 1557): (A) B C —
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 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		
15	A-2 TEST PAD / 1ST LIFT	12"	* 11.0	* 122.0	7.5	122.9	114.3	94	P			(20)
16	B-2 " "	12"	11.0	122.0	11.1	122.4	110.1	90	P			(20)
17	C-2 " "	12"	11.0	122.0	8.7	126.0	115.9	95	P			(20)
18	D-2 " "	12"	11.0	122.0	9.3	126.8	116.0	95	P			(20)
19	E-2 " "	12"	11.0	122.0	9.2	127.4	116.7	96	P			(20)
20	E-1 " "	12"	11.0	122.0	7.8	126.4	117.3	96	P			(20)
21	D-1 " "	12"	11.0	122.0	8.8	126.3	116.1	95	P			(20)
22	C-1 " "	12"	11.0	122.0	7.7	126.2	117.2	96	P			(20)
23	B-1 " "	12"	11.0	122.0	8.9	121.3	111.4	91	P			(20)
24	A-1 " "	12"	11.0	122.0	9.0	125.3	115.0	94	P			(20)



TEST PAD LOCATION MAP

SCALE 1" = 50'

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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: 20 day 12 month 94 year

SPECIFICATION REQUIREMENTS

SOURCE: R. SCHNEIDER CONST MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE / (COMPACTED) ≤ 12
(CIRCLE ONE)

% COMPACTION: ≥ 90% MOISTURE RANGE: — ASTM D 698: A B C / (ASTM D 1557: A) B C —
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 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		
1	A-2 TEST PAD / 2ND LIFT	12"	11.0	122.0	8.2	130.6	120.7	98.9	P			(12)
2	B-2 " "	12"	11.0	122.0	7.8	125.3	116.3	95.3	P			(91)
3	C-2 " "	12"	11.0	122.0	11.1	127.6	114.9	94.1	P			(76)
4	C-3 " "	12"	11.0	122.0	7.9	126.2	116.9	95.8	P			(78)
5	B-3 " "	12"	11.0	122.0	8.6	122.7	113.0	92.6	P			(92)
6	A-3 " "	12"	11.0	122.0	8.9	124.2	114.0	93.5	P			(93)
7	A-4 " "	12"	11.0	122.0	8.5	127.0	117.1	96.0	P			(94)
8	B-4 " "	12"	11.0	122.0	7.7	126.8	117.8	96.5	P			(95)
9	C-4 " "	12"	11.0	122.0	8.1	128.6	118.9	97.5	P			(96)
10	C-5 " "	12"	11.0	122.0	8.0	127.7	118.2	96.7	P			(97)
11	B-5 " "	12"	11.0	122.0	8.2	128.5	118.7	97.3	P			(98)
12	A-5 " "	12"	11.0	122.0	8.5	121.7	112.1	91.9	P			(99)
13	D-3 " "	12"	11.0	122.0	~~8.7~~ 7.7	~~122.2~~ 123.9	~~112.4~~ 119.1	~~92.1~~ 94.3	P			(87)
14	E-3 " "	12"	11.0	122.0	~~7.9~~ 8.7	~~126.1~~ 122.7	~~116.8~~ 112.4	~~95.7~~ 92.3	P			(20)

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 12 month 94 year

SPECIFICATION REQUIREMENTS

SOURCE: R. SCHEIDER CONST MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE / (COMPACTED)) ≤ 12

% COMPACTION: ≥ 90 % MOISTURE RANGE: — ASTM D 698: A B C / (ASTM D 1557: A) B C —

NUCLEAR GAUGE TYPE: TROXLER 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		
1	C-2 TEST PAD / 3RD LIFT	12"	11.0	122.0	7.7	128.8	119.5	98.0	P			(2)
2	B-2 " "	12"	11.0	122.0	7.7	126.8	117.1	96.5	P			(2)
3	A-2 " "	12"	11.0	122.0	8.0	125.9	116.6	95.5	P			(2)
4	A-3 " "	12"	11.0	122.0	8.2	130.1	120.2	98.5	P			(2)
5	B-3 " "	12"	11.0	122.0	8.2	129.7	119.9	98.3	P			(2)
6	C-3 " "	12"	11.0	122.0	8.2	128.5	118.7	97.3	P			(2)
7	C-4 " "	12"	11.0	122.0	8.5	127.9	117.9	96.6	P			(2)
8	B-4 " "	12"	11.0	122.0	8.9	126.5	116.2	95.2	P			(2)
9	A-4 " "	12"	11.0	122.0	8.5	129.4	119.3	97.8	P			(2)
10	A-5 " "	12"	11.0	122.0	8.8	128.3	117.9	96.7	P			(2)
11	B-5 " "	12"	11.0	122.0	8.3	128.6	118.7	97.3	P			(2)
12	C-5 " "	12"	11.0	122.0	8.1	126.9	117.4	96.2	P			(2)
												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: 20 day 12 month 94 year

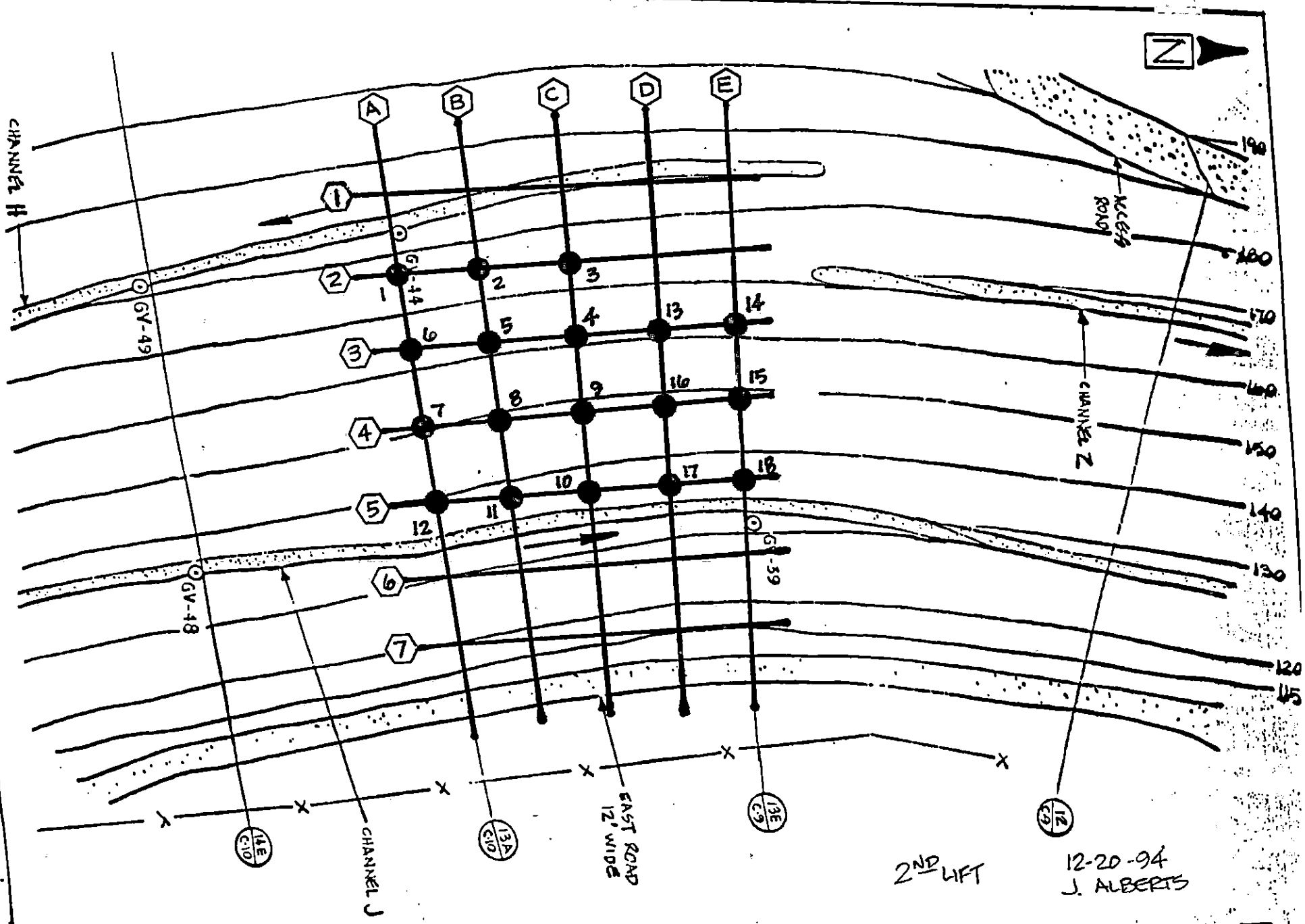
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHNEIDER CONST MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED)): ≤12"
(CIRCLE ONE)

% COMPACTION: ≥ 90% MOISTURE RANGE: — ASTM D 698: A B C / (ASTM D 1557) (A) B C —
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

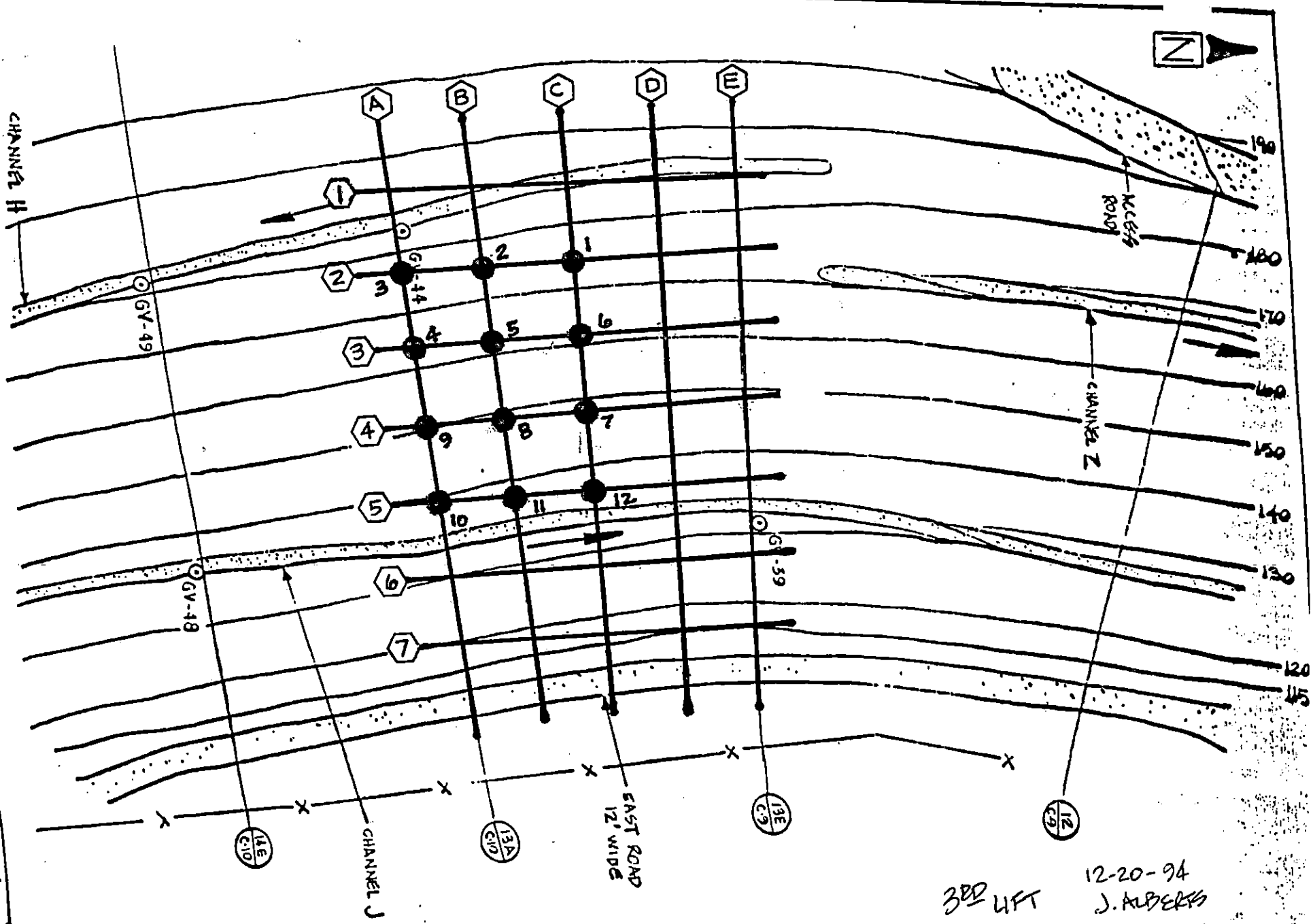
TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
15	E-4 TEST PAD / 2ND LIFT	12"	11.0	122.0	7.9	126.1	116.8	95.7	P			(20)
16	D-4 " "	12"	11.0	122.0	7.5	122.0	113.4	93.0	P			(20)
17	D-5 " "	12"	11.0	122.0	8.6	125.8	115.8	94.9	P			(20)
18	E-5 " "	12"	11.0	122.0	8.3	125.7	116.0	95.1	P			(20)



TEST PAD LOCATION MAP

SCALE 1" = 50'

GeoSyntec Consultants



TEST PAD LOCATION MAP

SCALE 1"=50'

3RD LIFT

12-20-94

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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: 22 day 12 month 94 year

SPECIFICATION REQUIREMENTS

SOURCE: R. SCHEIDER CONST MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED)) ≤12"
(CIRCLE ONE)

% COMPACTION: ≥ 90% MOISTURE RANGE: — ASTM D 698: A B C / (ASTM D 1557: A) B C —
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 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		
1	E-2 TEST PAD / 4TH LIFT	12"	11.0	122.0	6.3	123.0	115.8	94.9	P			
2	D-2 " "	12"	11.0	122.0	7.3	126.9	118.2	96.9	P			
3	C-2 " "	12"	11.0	122.0	7.7	128.2	119.0	97.9	P			
4	B-2 " "	12"	11.0	122.0	7.2	129.9	121.2	99.3	P			
5	A-2 " "	12"	11.0	122.0	7.9	130.4	120.8	99.0	P			
6	A-3 " "	12"	11.0	122.0	8.5	129.7	119.5	97.9	P			
7	B-3 " "	12"	11.0	122.0	6.5	128.5	120.6	98.9	P			
8	C-3 " "	12"	11.0	122.0	6.1	~~125.5~~ 123.0	~~118.3~~ 114.8	96.9	P			
9	D-3 " "	12"	11.0	122.0	7.1	~~114.8~~ 122.6	~~123.0~~ 115.1	94.1	P			
10	E-3 " "	12"	11.0	122.0	6.5	~~119.1~~ 126.2	~~122.6~~ 117.3	96.4	P			
11	E-4 " "	12"	11.0	122.0	7.6	~~117.3~~ 125.0	~~120.2~~ 116.0	96.1	P			
12	D-4 " "	12"	11.0	122.0	5.9	~~118.0~~ 122.8	~~125.0~~ 113.7	96.8	P			
13	C-4 " "	12"	11.0	122.0	8.0	~~113.7~~ 126.0	~~122.8~~ 118.1	93.2	P			
14	B-4 " "	12"	11.0	122.0	6.7	~~118.1~~	~~126.0~~	96.8	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 12 month 94 year

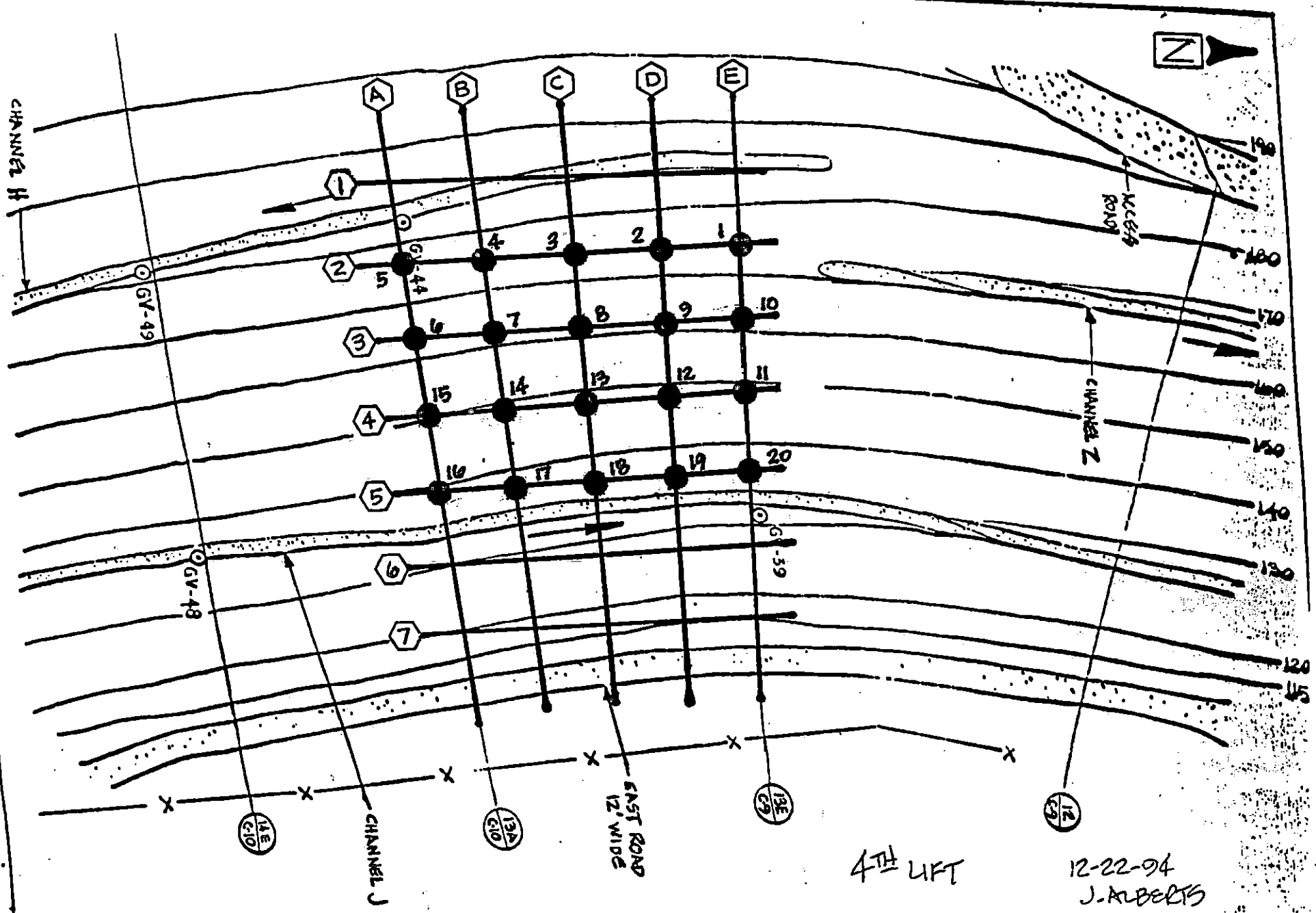
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHEIDER CONST MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED): ≤12"
(CIRCLE ONE)

% COMPACTION: ≥90% MOISTURE RANGE: —— ASTM D 698: A B C / (ASTM D 1557: (A) B C ——
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 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		
15	A-4 TEST PAD/4TH LIFT	12"	11.0	122.0	8.4	~~115.7~~ 126.4 ~~115.7~~	~~126.4~~	94.8	P			
16	A-5 " "	12"	11.0	122.0	8.3	~~125.6~~ 116.1 ~~116.1~~	~~125.6~~	95.1	P			
17	B-5 " "	12"	11.0	122.0	7.6	~~120.0~~ 119.8 ~~119.8~~	~~120.0~~	98.2	P			
18	C-5 " "	12"	11.0	122.0	7.8	~~125.7~~ 116.7 ~~116.7~~	~~125.7~~	95.6	P			
19	D-5 " "	12"	11.0	122.0	6.9	~~121.9~~ 114.0 ~~114.0~~	~~121.9~~	93.4	P			
20	E-5 " "	12"	11.0	122.0	7.5	~~124.0~~ 115.4 ~~115.4~~	~~124.0~~	94.6	P			



TEST PAD LOCATION MAP

SCALE 1"=50'

GeoSyntec Consultants

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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: 6 day 4 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: R. SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/COMPACTED): ≤9"
(CIRCLE ONE)

% COMPACTION: ≥ 90% MOISTURE RANGE: ±2% OPT ASTM D 698: A B C / (ASTM D 1557): (A) B C —
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION (STATION REFER TO GAS COLLECTION PLAN)	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
	FENCELINE BEN TRENCH											
0604-1	STA 41+50	6"	7.1	131.9	6.7	135.3	126.7	96.1	P			(QD)
0604-2	40+50	"	"	"	7.5	135.0	125.7	95.3	P			(QD)
0604-3	39+50	"	"	"	7.5	124.4	115.7	87.7		F	0604-4	(QD)
0604-4	39+35	"	"	"	7.2	134.4	125.4	95.2	P			(QD)
0604-5	38+50	"	"	"	6.5	126.1	118.4	89.8		F	0604-6	(QD)
0604-6	38+40	"	"	"	7.4	128.2	119.4	90.5	P			(QD)
0604-7	37+40	"	"	"	6.9	134.1	125.5	95.1				(QD)
0604-8	36+40	"	"	"	7.8	137.7	127.7	96.8	P			(QD)
0604-9	35+40	"	"	"	9.2	136.6	125.1	94.8	P			(QD)
0604-10	34+50	"	"	"	8.3	128.7	118.8	90.1	P			(QD)
0604-11	33+50	"	"	"	8.3	135.2	124.6	94.4	P			(QD)
0604-12	32+50	"	"	"	7.6	131.0	121.8	92.3	P			(QD)
0604-13	31+40	"	"	"	8.3	132.5	122.4	92.8	P			(QD)
0604-14	30+50	"	"	"	8.1	128.8	119.1	90.3	P			(QD)

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 4 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: R. SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED): 12"
(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 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
	TEST PAD		OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
1004-1	D-1	12"	8.3	128.6	6.4	124.7	117.2	91.9	✓			(98)
1004-2	C-1	"	"	"	5.9	128.1	121.0	94.1	✓			(98)
1004-3	B-1	"	"	"	9.3	130.7	119.6	93.0	✓			(98)
1004-4	A-1	"	"	"	8.2	127.0	117.4	91.3	✓			(98)
1004-5	A-2	"	"	"	7.2	128.5	119.8	93.2	✓			(98)
1004-6	B-2	"	"	"	10.9	132.4	119.4	92.8	✓			(98)
1004-7	C-2	"	"	"	8.2	132.0	122.0	94.9	✓			(98)
1004-8	D-2	"	"	"	8.0	125.5	116.2	90.4	✓			(98)
1004-9	D-3	"	"	"	7.9	129.8	120.3	93.6	✓			(98)
1004-10	C-3	"	"	"	10.8	133.6	120.6	93.8	✓			(98)
1004-11	B-3	"	"	"	10.2	132.7	120.4	93.6	✓			(98)
1004-12	A-3	"	"	"	7.3	129.5	120.7	93.9	✓			(98)
1004-13	A-4	"	"	"	7.6	136.1	126.5	98.4	✓			(98)
1004-14	B-4	"	"	"	9.5	131.3	121.8	94.7	✓			(98)

→ DD+WI reverse

TEST PAD RETESTED WITH REPRESENTATIVE PROCTOR VS ESTIMATED PROCTOR USED ON 12-19-94 (98)

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 4 month 95 year

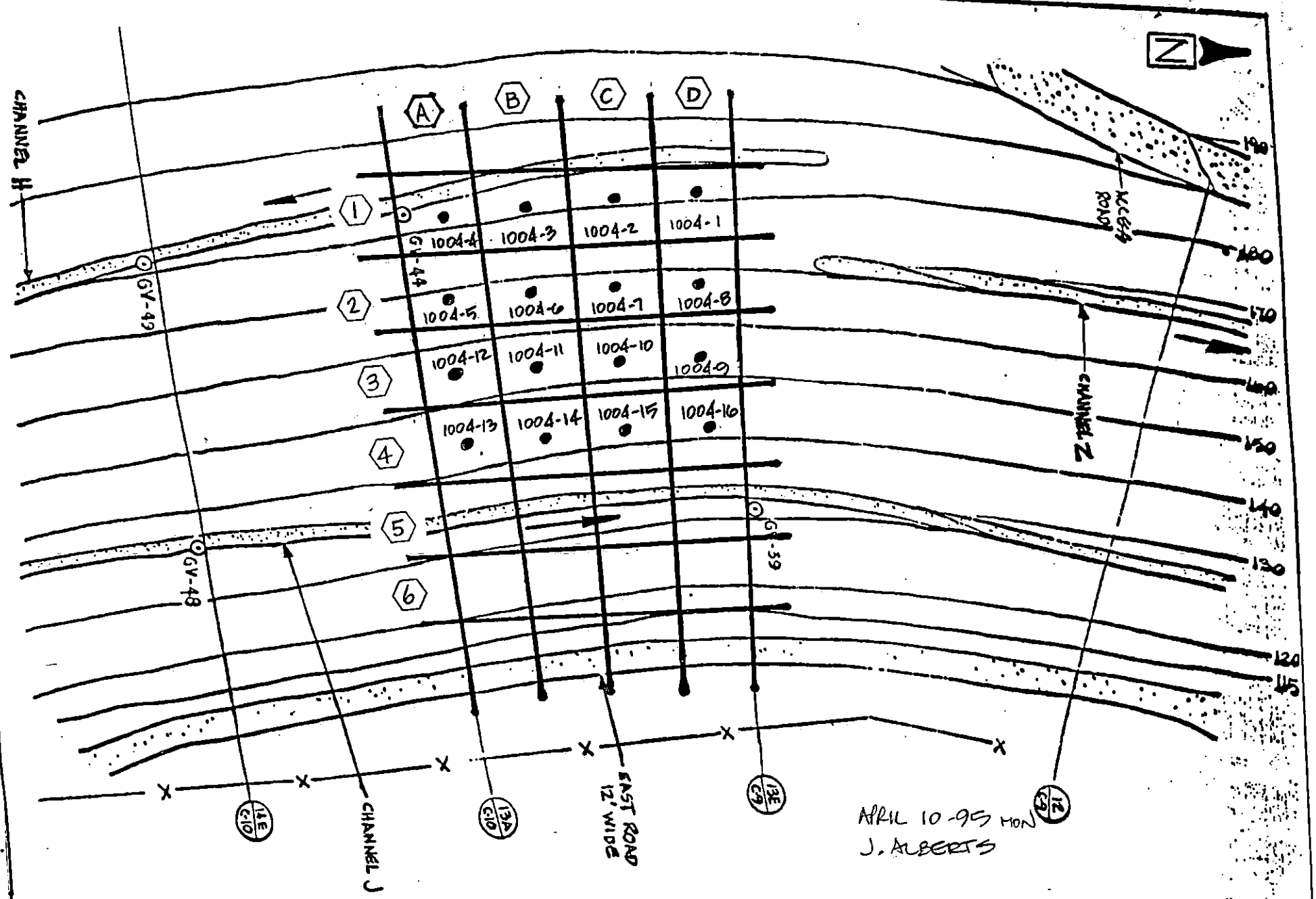
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED)): 12"

% COMPACTION: ≥ 90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557) (A) B C (CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 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
	TEST PAD		OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
1004-15	C-4	12"	8.3	128.6	9.5	134.2	122.6	95.3	✓			(90)
1004-16	D-4	"			10.3	132.4	122.1	95.0	✓			(91)



TEST PAD LOCATION MAP (30' GRID)

SCALE 1"=50'

GeoSyntec Consultants

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 5 month 1995 year

SPECIFICATION REQUIREMENTS

SOURCE: R-SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: _____ 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. (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
1505-1	D5 TEST PAD ALT SELECT 1ST LIFT	6"/11"/1	8.5	129.5	6.4	126.7	119.1	91.9	P			
1505-2	C5 " "	6"/11"/1	8.5	129.5	5.8	124.4	117.6	90.8	P			
1505-3	B5 " "	6"/10"/1	8.5	129.5	6.1	124.7	117.5	90.7	P			
1505-4	A5 " "	6"/11"/1	8.5	129.5	6.7	124.3	116.5	90.0	P			
1505-5	A4 " "	6"/11"/1	8.5	129.5	5.6	126.0	119.3	92.1	P			
1505-6	B4 " "	6"/10.5"/1	8.5	129.5	5.8	125.0	118.1	91.2	P			
1505-7	C4 " "	6"/10"/1	8.5	129.5	6.9	125.1	117.0	90.3	P			
1505-8	D4 " "	6"/12"/1	8.5	129.5	5.9	120.8	114.1	88.1	P	F	1505-9	
1505-9	D4 " "	6"/12"/1	8.5	129.5	6.1	127.3	120.0	92.6	P			
1505-10	D3 " "	6"/9.5"/1	8.5	129.5	5.6	123.2	116.7	90.1	P			
1505-11	C3 " "	6"/10.5/1	8.5	129.5	5.4	123.6	117.2	90.5	P			
1505-12	B3 " "	6"/10"/1	8.5	129.5	6.6	123.1	115.4	89.1		F	1505-13	
1505-13	B3 " "	6"/10"/1	8.5	129.5	7.5	125.8	117.0	90.4	P			
1505-14	A3 " "	6"/10"/1	8.5	129.5	7.4	125.2	116.6	90.0	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: 15 day 5 month 1995 year

SPECIFICATION REQUIREMENTS

SOURCE: R. SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: _____ LIFT THICKNESS (LOOSE/COMPACTED): 9"
(CIRCLE ONE)

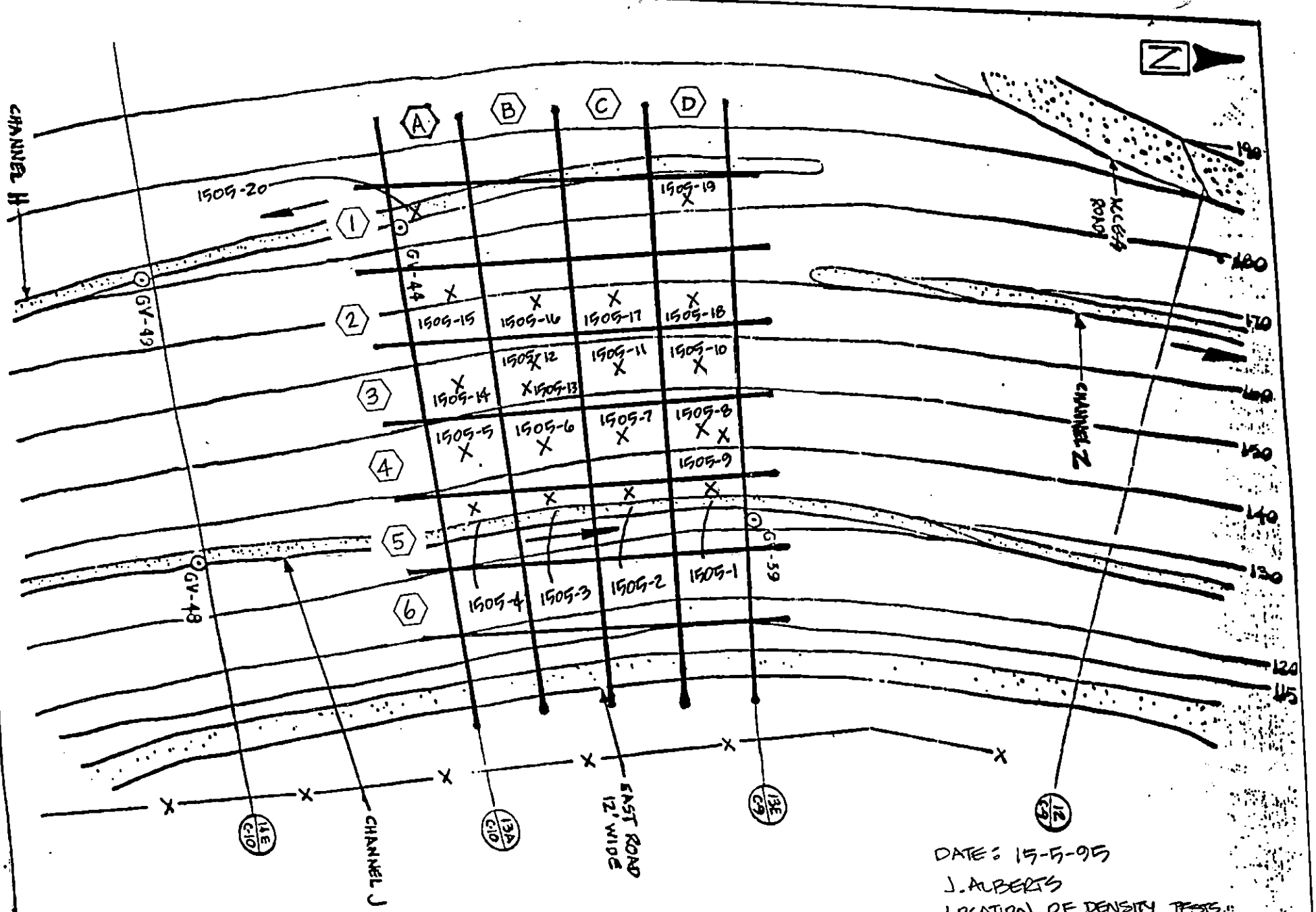
% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557: A) B C
(CIRCLE ONE)

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
1505-15	A2 TEST PAD ALT SELECT 1ST LIFT	6"/8"/1	8.5	129.5	5.0	122.3	116.5	90.0	P			(9D) bd
1505-16	B2 " "	6"/10"/1	8.5	129.5	5.8	123.3	116.5	90.0	P			(9D) bd
1505-17	C2 " "	6"/9"/1	8.5	129.5	5.6	123.4	116.8	90.2	P			(9D) bd
1505-18	D2 " "	6"/9.5"/1	8.5	129.5	6.3	123.8	116.5	90.0	P			(9D) bd
* 1505-19	D1 " "	6"/9"/1	8.5	129.5	6.8	123.0	115.1	88.9		F		(9D) bd
1505-20	N8234 E6892 CHANNEL H	6"/18"/1	8.5	129.5	7.8	126.3	117.2	90.5	P			(9D) bd
	ANCHOR TRENCH ≈ 10' NORTH OF SECTION 13A											

* INSTRUCTED JDP TO RE-COMPACT THE AREA JUST DOWNSLOPE FROM CHANNEL H BETWEEN SECTION 13A - 13E SINCE COMPACTION TEST FAILED & UPON VISUAL INSPECTION IT APPEARED LOOSE - WILL RETEST WHEN AREA IS RECOMPACTED.

(9D) 5-15-95



TEST PAD LOCATION MAP (30' GRID)

SCALE 1" = 50'

DATE: 15-5-95

J. ALBERTS

LOCATION OF DENSITY TESTS FOR 1ST LIFT ALT SELECT FILL

GEOSYNTEC CONSULTANTS

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 05 month 1995 year

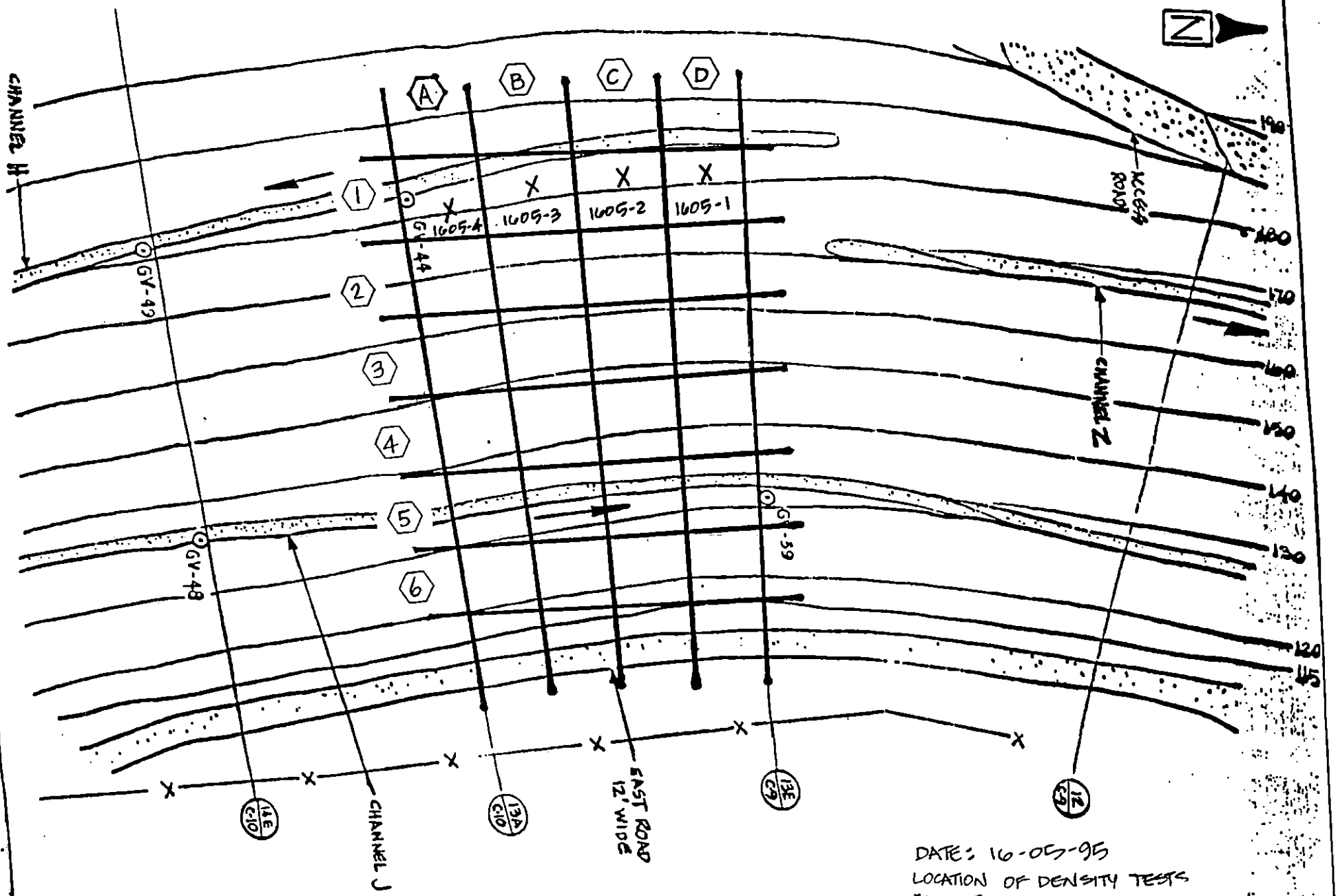
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: _____ LIFT THICKNESS (LOOSE/COMPACTED): 9"
(CIRCLE ONE)

% COMPACTION: ≥90% MOISTURE RANGE: ±2% OF OMC 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
1605-1	D1 TEST PAD ALT SELECT 1ST LIFT	6"/9.5"/1	8.5	129.5	4.9	123.0	117.3	90.6	P			
1605-2	C1 " "	6"/9"/1	8.5	129.5	5.0	122.3	116.5	90.0	P			
1605-3	B1 " "	6"/10"/1	8.5	129.5	5.2	122.8	116.8	90.2	P			
1605-4	A1 " "	6"/9.5"/1	8.5	129.5	5.6	123.0	116.5	90.0	P			



TEST PAD LOCATION MAP (30' GRID)

SCALE 1"=50'

DATE: 16-05-95
LOCATION OF DENSITY TESTS
FOR 1ST LIFT ALT SELECT FILL

GEOSYNTEC CONSULTANTS

SUB APPENDIX F–2

GEOSYNTHETICS LOGS

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

SEAM AND PANEL REPAIR LOCATION LOG

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 9 day 5 month 95 year

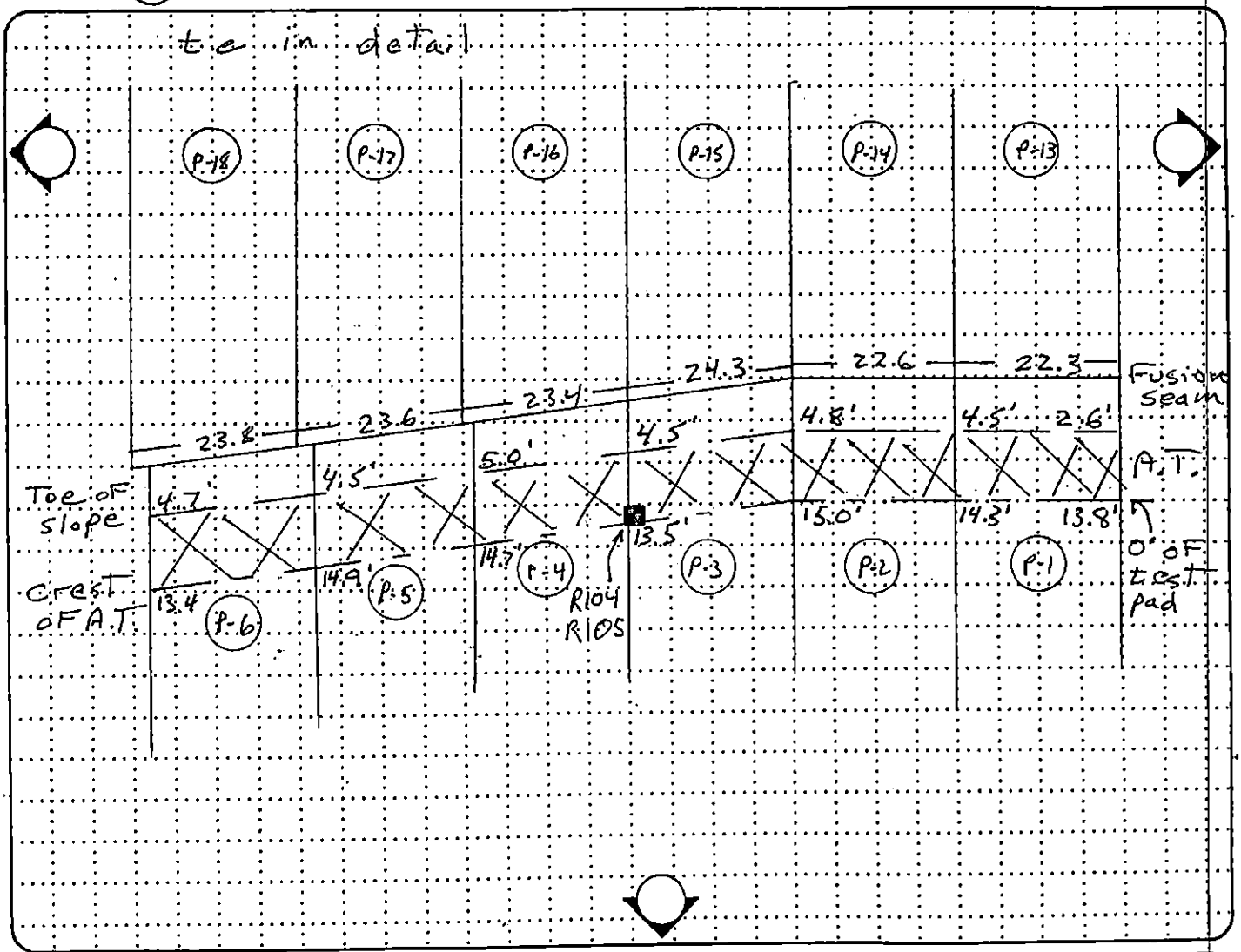
CONTRACTOR: JDP / Gundle

PRIMARY: ☑ SECONDARY: ☐ OTHER: ☐ PRODUCT TYPE: 40 mil VLDPE

NORTH

NOTE: SEE OTHER SIDE FOR SYMBOLS

QA ID: MJ



SEAM NO.:	
PANEL NO.:	
AVG PANEL LENGTH:	
AVG PANEL WIDTH:	
AREA: (ft^2)	

Gundle®

SUBGRADE SURFACE ACCEPTANCE

PROJECT: Huntington Land Fill JOB NUMBER: A-4412

LOCATION: E. Northport N.Y. DATE: 4-25-95

I, the undersigned duly authorized representative of Gundle Lining Construction Corporation, certify that upon visual inspection the subgrade surface described below meets criteria for installation of a 40 mil flexible membrane liner. By signing below, however, Gundle acknowledges no responsibility for the subgrade design, degree of moisture or compaction, integrity, elevation, or maintenance thereof, in any way.

Approximate size of area: 19883 Square feet

Description of area: 13A - 13E Panels 1 - 6 40 VL

Robert Ferguson

GUNDLE REPRESENTATIVE OWNER/CONTRACTOR INSPECTOR

#2666

FORM NO. 05250 PROUDLY PRINTED IN TEXAS BY SOUTHWEST DATA CORP. 713-465-4900

Gundle®

SUBGRADE SURFACE ACCEPTANCE

PROJECT: Huntington Landfill JOB NUMBER: A-442

LOCATION: E. Northport N.Y. DATE: 5-11-95

I, the undersigned duly authorized representative of Gundle Lining Construction Corporation, certify that upon visual inspection the subgrade surface described below meets criteria for installation of a 60 mil TEXTURED flexible membrane liner. By signing below, however, Gundle acknowledges no responsibility for the subgrade design, degree of moisture or compaction, integrity, elevation, or maintenance thereof, in any way.

Approximate size of area: 141,000 sq. ft. (est.)

Description of area: 13A-13E / Haul Road to 5' East of A Toe EAST

Panels 1-18

Robert Ferguson

GUNDLE REPRESENTATIVE OWNER/CONTRACTOR INSPECTOR

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PLACEMENT LOG - Geocomposite

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 28 day 04 month 95 year

Drainage ☑ Gas Venting ☐ OTHER: ☐ PRODUCT TYPE: AKZO NOBLE

PANEL NO.	BATCH / ROLL NO.	DATE (day/mo)	TIME	TEMP(1) (°F / °C)	PLACEMENT LOCATION COMMENTS	APPROX WIDTH (ft)	APPROX LENGTH (ft)	QA ID
1	N/A	28/4			Test pad	6.0	320	MJ
2								MJ
3								MJ
4								MJ
5								MJ
6								MJ
7								MJ
8								MJ
9								MJ
10								MJ
11								MJ
12								MJ
					Daily Total	23040 Ft²		
1	N/A	5/5			Downslope of T.P.	6.0	320	MJ
2								MJ
3								MJ
4								MJ
5								MJ
6								MJ
					Daily Total	11520 ft²		
					Total To date	34560 Ft²		
					TOTALS:(2)			

NOTES: (1) TEMP MEASUREMENT LOCATION: _____ (2) APPROX AREA: 34560 (ft²)

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PLACEMENT LOG - Geocomposite

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 25 day 04 month 95 year

Drainage ☐ Gas Venting ☒ OTHER: ☐ PRODUCT TYPE: AKZO NOBLE

PANEL NO.	BATCH / ROLL NO.	DATE (day/mo)	TIME	TEMP[1] (°F / °C)	PLACEMENT LOCATION COMMENTS	APPROX WIDTH (ft)	APPROX LENGTH (ft)	QA ID
	N/A	25/4			Test Pad.	6.0	320'	MJ
								MJ
								MJ
								MJ
								MJ
								MJ
								MJ
								MJ
								MJ
								MJ
								MJ
								MJ
								MJ
					Total	24960 Ft²		
	N/A	28/4			Down slope of T.P.	6.0	320	MJ
								MJ
								MJ
								MJ
								MJ
								MJ
					Total	11520 Ft²		
					To Date Total	36480 Ft²		
					TOTALS:[2]			

NOTES: (1) TEMP MEASUREMENT LOCATION: _____ (2) APPROX AREA: _____ (ft²)

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PLACEMENT LOG - Geocomposite

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 8 day 5 month 95 year

Drainage ☐ Gas Venting ☒ OTHER: ☐ PRODUCT TYPE: AKZO NOBLE

PANEL NO.	BATCH / ROLL NO.	DATE (day/mo)	TIME	TEMP[1] (°F / °C)	PLACEMENT LOCATION COMMENTS	APPROX WIDTH (ft)	APPROX LENGTH (ft)	QA ID
	N/A	8/5			Above T.P.	6.0	320	MJ
								MJ
								MJ
								MJ
								MJ
								MJ
								MJ
					Total	13440 Ft²		
					To Date Total	49920 Ft²		
					MH 4A-S			
1	5052 0902	6/6				6.0	320	MJ
2	505 17908							MJ
3	50520903							MJ
4	50520904							MJ
5	50520910							MJ
6	505 17907							MJ
7	5052090 1							MJ
8	50520910							MJ
9	505 17909							MJ
10	505 17910							MJ
11	505 17911							MJ
12	505 18908						60	MJ
					Total	21480 Ft²		
					to date total	71400 Ft²		
					TOTALS:[2]			

NOTES: (1) TEMP MEASUREMENT LOCATION: _____ (2) APPROX AREA: _____ (ft²)

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PANEL PLACEMENT LOG (WITH TEMPERATURE)

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 95 year

PRIMARY: ☒ SECONDARY: ☐ OTHER: ☐ PRODUCT TYPE: 40MIL VLDPE

PANEL NO.	BATCH / ROLL NO.	DATE (day/mo)	TIME	TEMP[1] (°F / °C)	PLACEMENT LOCATION COMMENTS	APPROX WIDTH (ft)	APPROX LENGTH (ft)	QA ID
1	042095/3032049	26/4	7:45	56	TEST PAD (13A-13E)	22.0	155.0	MT
2	042095/3032049	↓	8:00	59	↓	↓	153.0	MT
3	042095/3032049		8:40	61			146.0	MT
4	042095/3032048		10:10	61			143.0	GD
5	042095/3032048		10:35	62			141.0	MT
6	042095/3032048	↓	13:00	70	↓	↓	139.0	MT
					TOTAL ft² DEPLOYED	19,294 ft²		
7	3032050	4/5	9:45	60	BELOW TEST PAD	22.0	103	GD
8	3032050	↓	10:20	63	↓	↓	97	MT
9	3032050		11:00	65			91	MT
10	3032050		11:20	66			91	MT
11	3032050		12:50	70			90	MT
12	3032050	↓	13:15	70	↓	↓	91	MT
					TOTAL ft² DEPLOYED	10,384 sq ft.		
13	5029763	8/5	8:00	45	ABOVE TEST PAD	22.0	78	MT
14	5029763	↓	8:20	48	↓	↓	87	MT
15	5029763		8:45	51			95	MT
16	5029763		9:00	56			102	MT
17	5029763		9:30	57			105	MT
18	5029763	↓	10:30	60	↓	↓	114	MT
					TOTAL ft² DEPLOYED	12,782 sq ft.		
					TOTALS:[2]			

NOTES: (1) TEMP MEASUREMENT LOCATION: 6" ABOVE LINER (2) APPROX AREA: 42,460 sq ft (ft²)

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

TRIAL SEAM LOG - FUSION (WITH TEMPERATURE)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 26 day 4 month 95 year

CONTRACTOR: Gundel TENSIOMETER DESCRIPTION: Wegener

TRIAL SEAM NO.	DATE (day/mo)	TIME	TEMP (°F) °C	MACHINE NO.	OPER ID.	FUSION		TEST RESULTS				QA ID
						WEDGE (SET/ °C/ °F)	MEASURED SPEED (ft/min)	PEEL (ppi)/psi	SHEAR (ppi)/psi	PASS	FAIL	
1	26/4	7:50	54°	W#1154	TT	415°	7.5	57/58	59	P	–	D
								53/57	61	P	–	GD
								63/59	62	P	–	G
–	–	–	–	–	–	–	–	–	–	–	–	–
2		7:25		W#1310	KP			57/56	59	P	–	D
								65/65	58	P	–	GD
								64/67	63	P	–	G
–	–	–	–	–	–	–	–	–	–	–	–	–
3		1:45	64°	W#1154	TT		8.0	57/57	54	P	–	D
								58/54	53	P	–	GD
								56/55	54	P	–	G
–	–	–	–	–	–	–	–	–	–	–	–	–
4	4/5	0730	57°	W#1154	TT	415	11	62/59	60/65	P	–	D
"	"	"	"	"	"	"	"	61/61	–	P	–	–
"	"	"	"	"	"	"	"	65/62	–	P	–	–
5	4/5	1330	68°	W#1154	TT	415	11	66/61	57/60	P	–	D
"	"	"	"	"	"	"	"	57/57	–	P	–	–
"	"	"	"	"	"	"	"	54/59	–	P	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–
6	8/5	0800	47°	W#1154	TT	415	10	60/ NOR F.TB	–	–	F	D
7	8/5	0900	"	W#1310	TT	415	10	60/60	62/61	P	–	D
"	"	"	"	"	"	"	"	62/62	–	P	–	–
"	"	"	"	"	"	"	"	63/62	–	P	–	–
–	–	–	–	–	–	–	–	62/61	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

TRIAL SEAM LOG - EXTRUSION (WITH TEMPERATURE)

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 1995 year

CONTRACTOR: Gundle TENSIOMETER DESCRIPTION: Wegener

TRIAL SEAM NO.	DATE (day/mo)	TIME	TEMP (°F) °C	MACHINE NO.	OPER ID.	EXTRUSION PREHEAT (SET °C °F)	EXTRUSION BARREL (°C/°F)	TEST RESULTS PEEL (ppi) psi	TEST RESULTS SHEAR (ppi) psi	PASS	FAIL	QA ID
1	26/4	1:25	64	281	KP	220	230	49	53	P	–	GD
↓	↓	↓	↓	↓	↓	↓	↓	53	53	P	–	GD
↓	↓	↓	↓	↓	↓	↓	↓	55	–	P	–	GD
–	–	–	–	–	–	–	–	–	–	–	–	–
2	26/4	1:30	64	291	TT	210	225	51	55	P	–	GD
↓	↓	↓	↓	↓	↓	↓	↓	47	59	P	–	GD
↓	↓	↓	↓	↓	↓	↓	↓	53	–	P	–	GD
–	–	–	–	–	–	–	–	–	–	–	–	–
3	27/4	7:50	52	281	KP	220	235	62	60	P	–	GD
↓	↓	↓	↓	↓	↓	↓	↓	55	61	P	–	GD
↓	↓	↓	↓	↓	↓	↓	↓	63	–	P	–	GD
–	–	–	–	–	–	–	–	–	–	–	–	–
4	27/4	7:45	52	281	YS	220	235	54	59	P	–	GD
↓	↓	↓	↓	↓	↓	↓	↓	61	58	P	–	GD
↓	↓	↓	↓	↓	↓	↓	↓	64	–	P	–	GD
–	–	–	–	–	–	–	–	–	–	–	–	–
5	27/4	7:40	52	291	TT	205	230	58	61	P	–	GD
↓	↓	↓	↓	↓	↓	↓	↓	59	60	P	–	GD
↓	↓	↓	↓	↓	↓	↓	↓	60	–	P	–	GD
–	–	–	–	–	–	–	–	–	–	–	–	–
6	27/4	7:30	51	291	JM	205	230	64	61	P	–	GD
↓	↓	↓	↓	↓	↓	↓	↓	60	62	P	–	GD
↓	↓	↓	↓	↓	↓	↓	↓	61	–	P	–	GD
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

TRIAL SEAM LOG - EXTRUSION (WITH TEMPERATURE)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 27 day April month 1995 year

CONTRACTOR: Gundle TENSIOMETER DESCRIPTION: Wegener

TRIAL SEAM NO.	DATE (day/mo)	TIME	TEMP (°F/°C)	MACHINE NO.	OPER ID.	EXTRUSION		TEST RESULTS				QA ID
						PREHEAT (SET/°C/°F)	BARREL (°C/°F)	PEEL (ppi/psi)	SHEAR (ppi/psi)	PASS	FAIL	
7	27/4	1:25	68	291	TT	205	230	56	52	P	—	GD
↓	↓	↓	↓	↓	↓	↓	↓	50	55	P	—	GD
								55	—	P	—	GD
—	—	—	—	—	—	—	—	—	—	—	—	—
8	4/5	0730	57°	281	KP	220	235	60/59	59/58	P	—	
—	4/5	—	—	—	—	—	—	60	—	—	—	—
9	+1330	1330	68°	281	KP	220	235	59/59 61	58/60	P	—	
9 10	5/5	7:30	56°	291	TT	205	230	58	58	P	—	GD
"	"	"	"	"	"	"	"	62	59	P	—	GD
"	"	"	"	"	"	"	"	59	—	P	—	GD
—	—	—	—	—	—	—	—	—	—	—	—	—
10 11	5/5	7:35	56°	281	YS	220	235	62	62	P	—	GD
"	"	"	"	"	"	"	"	59	65	P	—	GD
"	"	"	"	"	"	"	"	59	—	P	—	GD
—	—	—	—	—	—	—	—	—	—	—	—	—
11 12	5/5	7:40	56°	281	KP	220	230	57	60	P	—	GD
"	"	"	"	"	"	"	"	61	58	P	—	GD
"	"	"	"	"	"	"	"	59	—	P	—	GD
13	8/5	0800	48°	281	KP	215	230	60/64	62	P	—	
"	"	"	"	"	"	"	"	56	63	P	—	—
14	8/5	1250	62°	281	KP	215°	230°	59/60	59	P	—	MJ
"	"	"	"	"	"	"	"	55	54	P	—	—
15	9/5	0740	55°	281	KP	210	225	60/53	53	P	—	
"	"	"	"	"	"	"	"	50	55	P	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PRODUCTION SEAM LOG (WITH TEMPERATURE)

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 1995 year

LOCATION: Test Pad 13A - 13E

PRIMARY: ☑ SECONDARY: ☐ OTHER: ☒ PRODUCT TYPE: 40 mil Textured VLDPE

DATE (day/mo)	SEAM NO.	TIME	APPROX LENGTH (ft)	MACHINE NO.	OPERATOR ID	TEMP (°F/©)	LOCATION COMMENTS	QA ID
26/4	P1/P2	8:30	158	W1154	TT	213	Test Pad 13A-13E	MT
↓	P2/P3	9:05	150	↓	↓	↓	↓	MT
	P3/P4	10:20	149					MT
	P4/P5	10:50	146					MT
	P5/P6	1:48	143					MT
	P1/P2	2:45	12	G281	KO	220	Channel J Anchor Trench	MT
↓	P4/P5	2:45	12	G291	TT	210	↓	MT
27/4	P2/P3	8:45	3	↓	↓	↓	0'-3'	MT
↓	P5/P6	11:15	20				0'-4' + Channel J	MT
	P5/P6	11:28	12				151' to end	MT
	P3/P4	11:00	8	G281	KO	220	155' to end	MT
↓	P3/P4	2:00	18	G291	TT	210	0'-3' + Channel J	MT
	Fusion 744				Extrusion	85 QD	4F	—
No	Further	Entries	-	This	Page	—	—	H.L.

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PRODUCTION SEAM LOG (WITH TEMPERATURE)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 4 day May month 1995 year

LOCATION: Downhill of Testpad 13A - 13E

PRIMARY: [X] SECONDARY: [ ] OTHER: [X] PRODUCT TYPE: 40 mil VLDPE TEXT.

DATE (day/mo)	SEAM NO.	TIME	APPROX LENGTH (ft)	MACHINE NO.	OPERATOR ID	TEMP (°F/©)	LOCATION COMMENTS	QA ID
4/5	P7/P8	10:30	76	1154	TT	213	Below Test pad	GD
	P8/P9	11:22	73					GD
	P9/P10	11:45	74					GD
	P10/P11	1:10	71					GD
	P11/P12	1:35	70					GD
—	Fusion Total		364	L.F	—	—	—	—
—	Fusion Total To date		1108	L.F	—	—	—	—
—	—	—	—	—	—	—	—	—
5/5	7/8	8:45	19	281	KP	—	Anchor Trench Below T.P.	M1
	8/9	10:30	6	"	"	—		M1
	9/10	10:15	17	"	"	—		M1
	10/11	9:45	18	291	TT	—		M1
	11/12	10:00	4	"	"	—		M1
	6/7	9:00	22	281	YS	—		M1
	5/8	9:45	22	"	"	—		M1
	4/9	10:45	22	"	"	—		M1
	3/10	10:45	22	291	TT	—		M1
	2/11	10:15	22	"	"	—		M1
	1/12	9:30	22	"	"	—		M1
—	Extrusion Total		196	L.F.		—	—	—
—	Extrusion Total To date		281	L.F.		—	—	—
No	Further	Entries		This	Page		—	HL
	TOTAL (1)		540'					

NOTE: (1) APPROXIMATE LENGTH: THIS PAGE 540' (ft) ACCUMULATED 1304 (ft)

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PRODUCTION SEAM LOG (WITH TEMPERATURE)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 8 day 5 month 95 year

LOCATION: Upslope of Testpad 13A - 13E

PRIMARY: ☒ SECONDARY: ☐ OTHER: ☒ PRODUCT TYPE: 40 mil VLDPE TEXT.

DATE (day/mo)	SEAM NO.	TIME	APPROX LENGTH (ft)	MACHINE NO.	OPERATOR ID	TEMP (°F)/(°C)	LOCATION COMMENTS	QA ID
8/5	13/14	8:55	78	1310	TT	415°	Upslope of Test Pad	MJ
	14/15	9:10	87					MJ
	15/16	9:25	95					MJ
	16/17	10:30	102					MJ
	17/18	10:45	105					MJ
	1/13	11:45	22				tie in	MJ
	2/14	12:55	22.5					MJ
	3/15	1:10	24.3					MJ
	4/16	1:25	23.4					MJ
	5/17	1:40	23.6					MJ
	6/18	1:55	23.5					MJ
—	Fusion total		606 LF	—	—	—	—	—
—	Fusion total To date		1714 LF	—	—	—	—	—
No	Further	—	Entries	—	This	Page	—	H.L.
		TOTAL (1)	606'					

NOTE: (1) APPROXIMATE LENGTH: THIS PAGE 606' (ft) ACCUMULATED 1910 (ft)

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

NONDESTRUCTIVE TEST LOG

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 1995 year

CONTRACTOR: Gundle TEST REQUIREMENTS: 25-30psi for 5 min. w/ ≤ 4 psi drop

PRIMARY: ☑ SECONDARY: ☐ RE-TEST: ☐ OTHER: ☐

DATE (day/mo)	SEAM NO. OR LOCATION	LENGTH OF SEAM TESTED (ft)	OPER. ID	AIR PRESSURE TEST					VACUUM-BOX TEST		PASS/ FAIL	ACTION	QA ID
				START		Δ PRES. (psi)	STOP		NO. OF LEAKS	DATE OF RE-TEST			
				TIME	PRES.		PRES.	TIME					
26/4	P1/P2 0-22'	22	YS	8:38	28	2	26	8:43	—	—	P		MT
	P1/P2 106'-End	45		8:56	25	1	24	9:01			P		MT
	P1/P2 23'-106'	84		9:10	26	1	25	9:15			P		MT
	P2/P3 0-End	148		10:02	28	2	26	10:07			P		MT
	P3/P4 117'-End	31		10:30	29	3	26	10:35			P		MT
	P3/P4 68'-105'	37		10:43	28	2	26	10:48			P		MT
	P3/P4 111'-117'	6		10:35	28	3	25	10:40			P	Capped	MT
	P3/P4 12'-68'	56		13:17	30	1	29	13:22			P		MT
	P3/P4 3'-12'	9		13:24	30	2	28	13:29			P		MT
	P4/P5 108'-end	46		11:30	28	2	26	11:35			P		MT
	P4/P5 20'-92'	72		12:55	30	2	28	13:00			P		MT
	P4/P5 92'-106'	14		13:04	29	3	26	13:09			P		MT
	P5/P6 4'-45'	40		15:09	29	3	26	15:14			P		MT
	P5/P6 45'-102'	57		14:48	28	3	25	14:53			P		MT

(15)

NOTES: Seam P3/P4 (111'-117') was capped due to two other defects in close proximity.

GeoSyntec Consultants

TOWN OF HUNTINGTON

NONDESTRUCTIVE TEST LOG

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 1995 year

CONTRACTOR: Gundle TEST REQUIREMENTS: 25-30psi for 5min w/< 4psi drop

PRIMARY: ☑ SECONDARY: ☐ RE-TEST: ☐ OTHER: ☐

DATE (day/mo)	SEAM NO. OR LOCATION	LENGTH OF SEAM TESTED (ft)	OPER. ID	AIR PRESSURE TEST					VACUUM-BOX TEST		PASS/FAIL	ACTION	QA ID
				START		Δ PRES. (psi)	STOP		NO. OF LEAKS	DATE OF RE-TEST			
				TIME	PRES.		PRES.	TIME					
26/4	P5/P6 102-129	27	YS	14:58	30	2	28	15:03	—	—	P	—	GD
↓	P5/P6 129-144	15	↓	14:12	26	0	26	14:17	↓	↓	P	↓	GD
27/4	P1/P2 Channel H	12		—	—	—	—	—	0	—	P		GD
↓	P2/P3 0-3'	3	↓	↓	↓	↓	↓	↓	↓	↓	P		GD
	* P3/P4 155-End	8	CD								P		GD
	P3/P4 Channel H	18	YS								P		GD
	P4/P5 Channel H	12	↓								P		GD
	P5/P6 Channel H	20	KY								P		GD
	* P5/P6 151-End	12	↓								P		GD
(15)													

NOTES: * replaced by P9/10 and P7/8 respectively

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

NONDESTRUCTIVE TEST LOG

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 4 day May month 1995 year

CONTRACTOR: Gundle TEST REQUIREMENTS: 25-30 psi for 5 min w/ ≤ 4 psi drop

PRIMARY: ☑ SECONDARY: ☐ RE-TEST: ☐ OTHER: ☐

DATE (day/mo)	SEAM NO. OR LOCATION	LENGTH OF SEAM TESTED (ft)	OPER. ID	AIR PRESSURE TEST					VACUUM-BOX TEST		PASS/ FAIL	ACTION	QA ID
				START		Δ PRES. (psi)	STOP		NO. OF LEAKS	DATE OF RE-TEST			
				TIME	PRES.		PRES.	TIME					
4/5	P7/P8	82	YS	10:58	29	2	27	11:03	–	–	P	–	GD
	P8/P9	73	YS	11:22	30	3	27	11:27	–	–	P	–	GD
	P9/P10	74	YS	1:09	30	2	28	1:14	–	–	P	–	GD
	P10/P11	71	YS	1:21	30	2	28	1:26	–	–	P	–	GD
	P11/P12	70	YS	1:44	30	1	29	1:49	–	–	P	–	GD
5/5	7/8	19	KAY						0	–	P	–	ms
	8/9	6							0	–	P	–	ms
	9/10	17							0	–	P	–	ms
	10/11	18							0	–	P	–	ms
	11/12	4							0	–	P	–	ms
	6/7	22	CD						0	–	P	–	ms
	5/8	22	CD						0	–	P	–	ms
	4/9	22	KAY						0	–	P	–	ms
	3/10	22							0	–	P	–	ms
(15)	2/11	22							0	–	P	–	ms

NOTES:

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

NONDESTRUCTIVE TEST LOG

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 5 day 5 month 95 year

CONTRACTOR: Gundle TEST REQUIREMENTS: Seam must hold 25-30psi for ≥5min with ≤4psi drop

PRIMARY: ☑ SECONDARY: ☐ RE-TEST: ☐ OTHER: ☐

DATE (day/mo)	SEAM NO. OR LOCATION	LENGTH OF SEAM TESTED (ft)	OPER. ID	AIR PRESSURE TEST					VACUUM-BOX TEST		PASS/ FAIL	ACTION	QA ID
				START		Δ PRES. (psi)	STOP		NO. OF LEAKS	DATE OF RE-TEST			
				TIME	PRES.		PRES.	TIME					
5/15	1/12 0-end	22	KAY	—	—	—	—	—	0	—	P	—	MJ
5/8	13/14 0-end	78	YS	931	28	4	24	936	—	—	P	—	MJ
11	14/15 0-32	32	YS	1000	32	2	30	1005	—	—	P	—	MJ
11	11 32-end	42	YS	1017	30	3	27	1022	—	—	P	—	MJ
11	11 above crest-0'	15	YS	944	28	4	24	949	—	—	P	—	MJ
11	15/16 0-34	34	YS	1034	30	2	28	1039	—	—	P	—	MJ
11	34-end	44	YS	1025	30	4	26	1030	—	—	P	—	MJ
11	16/17 0-end	87'	YS	1050	31	1	30	1055	—	—	P	—	MJ
11	17/18 0-end	95	YS	1104	27	2	25	1109	—	—	P	—	MJ
11	1/13 0-end	22	YS	1246	30	1	29	1251	—	—	P	—	MJ
11	2/14 11	22	YS	100	30	1	29	105	—	—	P	—	MJ
11	3/15 11	23	YS	121	30	2	28	126	—	—	P	—	MJ
11	4/16 11	23	YS	132	31	2	29	137	—	—	P	—	MJ
11	5/17 11	23	YS	142	30	1	29	147	—	—	P	—	MJ
11 (15)	6/18 11	23	YS	150	30	2	28	155	—	—	P	—	MJ

NOTES:

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

DESTRUCTIVE TEST LOG

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 27 day April month 1995 year

CONTRACTOR: Gundle TEST REQUIREMENTS: 20 PPI FOR PEEL & 30 PPI SHEAR - FTB ~~FTB~~ (≤10% PEEL)

PRIMARY: ☑ SECONDARY: ☐ RE-TEST: ☐ OTHER: ☐

DISTRIBUTION: LABORATORY: ☑ ARCHIVE: ☑ INSTALLER: ☑ OTHER: ☐

SAMPLE DATA					FIELD DATA					LABORATORY DATA						
D.S. NO.	SEAM/ LOCATION	MACH NO.	OPER ID	DATE SAMPLED/ SHIPPED (day/mo)	AVG PEEL (PPI/PSI) INSIDE	AVG PEEL (PPI/PSI) OUTSIDE	AVG SHEAR (PPI/PSI)	PASS/ FAIL	QA ID	DATE OF RESULTS (day/mo)	AVG PEEL (PPI/PSI) INSIDE	AVG PEEL (PPI/PSI) OUTSIDE	AVG SHEAR (PPI/PSI)	PASS/ FAIL	RE-TEST	QA ID
1	P1/P2	1154	TT	2/4	59	60	59	P	GD	28/4	60.9	62.1	75.8	P	–	MJ
					62	61		P	GD							
2	P5/P6	1154	TT	2/4	61	59	58	P	GD	28/4	57.8	59.1	73.7	P	–	MJ
					57	56		P	GD							
3	P9/P10 - 42	1154	TT	4/5	47	46	56	P	GD	5/5	60.7	62.5	75.1	F		MJ
					56	55		P	GD							
4	P2/P14	1310	TT	8/5	54	57	59	P	MJ	10/5	58.1	61.5	78.9	P	P	
					59	64										
5	P3/P10	291	TT	8/5	55	54	58	P	MJ	10/5		58.5 (ext.)	74.0	P		
					54											
(15)																

GeoSyntec Consultants

TOWN OF HUNTINGTON

DESTRUCTIVE TEST LOG

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 9 day 5 month 95 year

CONTRACTOR: Gundle TEST REQUIREMENTS: as specified ASTM 20 PPI FOR PEEL & 30 PPI FOR SHEAR (≤ 10% PEEL)

PRIMARY: ☑ SECONDARY: ☐ RE-TEST: ☐ OTHER: ☐

DISTRIBUTION: LABORATORY: ☑ ARCHIVE: ☑ INSTALLER: ☑ OTHER: ☐

SAMPLE DATA					FIELD DATA					LABORATORY DATA					
D.S. NO.	SEAM/ LOCATION	MACH NO.	OPER ID	DATE SAMPLED/ SHIPPED (day/mo)	AVG PEEL (PPI/PSI) INSIDE	AVG PEEL (PPI/PSI) OUTSIDE	AVG SHEAR (PPI/PSI)	PASS/ FAIL	QA ID	DATE OF RESULTS (day/mo)	AVG PEEL (PPI/PSI) INSIDE	AVG PEEL (PPI/PSI) OUTSIDE	AVG SHEAR (PPI/PSI)	PASS/ FAIL	RE-TEST	QA. ID
3A	9/10 - 56'	1154	TT	9/5	59	60	62	P	MJ	10/5	63.2	67.9	78.3	P		
					61	62	58									
					61	62										
3B	9/10 - 28'	1154	TT	9/5	59	57	60	P	MJ	10/5	64.9	56.1	74.7	P		
					54	54	61									
					60	59	8 MD									
6	2/14 R85P	281	YS	9/5	54	51	57	P	MJ	10/5	87.0 (EST.)		76.7	P		
					59		61									
7	11/12 - 19'	1154	TT	9/5	51	54	50	P	MJ	10/5	62.4	62.8	76.6	P		
					54	53	50									
					57	57										

(15)

PEEL AND SHEAR TEST RESULTS

Client: Cashin & Associates
Project: Northport/Huntington Landfill
Material: 40 mil Textured VLDPE
Weld Type: Double Fusion

Job No.: 95G1820-01
Date Tested: 4/28/95
Technician: E.G./K.U.
Machine: ATS-900B/1105

SAMPLE NO. DS-1

Peel Adhesion Test Data

Replicate No.	OUTSIDE TRACK Peak Load (lbs)	Comments	Separation (%)	INSIDE TRACK Peak Load (lbs)	Comments	Separation (%)
1	52.9	SE1 FTB	< 10	67.4	SE1 FTB	< 10
2	58.5	SE1 FTB	< 10	63.4	SE1 FTB	< 10
3	63.8	SE1 FTB	< 10	56.4	SE1 FTB	< 10
4	66.2	SE1 FTB	< 10	58.6	SE1 FTB	< 10
5	62.9	SE1 FTB	< 10	64.8	SE1 FTB	< 10
Average	60.9			62.1		

Bonded Seam (Shear) Test Data	Width (in)	Peak Load (lbs)	Comments
1	1.0	73.0	FTB
2	1.0	77.8	FTB
3	1.0	75.0	FTB
4	1.0	76.9	FTB
5	1.0	76.1	FTB
Average		75.8	

PEEL AND SHEAR TEST RESULTS

Client: Cashin & Associates
Project: Northport/Huntington Landfill
Material: 40 mil Textured VLDPE
Weld Type: Double Fusion

Job No.: 95G1820-01
Date Tested: 4/28/95
Technician: E.G./K.U.
Machine: ATS-900B/1105

SAMPLE NO. DS-2

Peel Adhesion Test Data

Replicate No.	OUTSIDE TRACK Peak Load (lbs)	Comments	Separation (%)	INSIDE TRACK Peak Load (lbs)	Comments	Separation (%)
1	57.2	SE1 FTB	< 10	58.0	SE1 FTB	< 10
2	60.3	SE1 FTB	< 10	57.1	SE1 FTB	< 10
3	60.6	SE1 FTB	< 10	62.7	SE1 FTB	< 10
4	54.7	SE1 FTB	< 10	60.4	SE1 FTB	< 10
5	56.4	SE1 FTB	< 10	57.3	SE1 FTB	< 10
Average	57.8			59.1		

Bonded Seam (Shear) Test Data	Width (in)	Peak Load (lbs)	Comments
1	1.0	71.0	FTB
2	1.0	70.9	FTB
3	1.0	78.3	FTB
4	1.0	74.9	FTB
5	1.0	73.4	FTB
Average		73.7	

PEEL AND SHEAR TEST RESULTS

Client: Cashin & Associates
Project: Northport/Huntington Landfill
Material: 40 mil Textured VLDPE
Weld Type: Double Fusion

Job No.: 95G1820-02
Date Tested: 5/5/95
Technician: E.G.
Machine: ATS-900B/1105

SAMPLE NO. DS-3

Peel Adhesion Test Data

Replicate No.	OUTSIDE TRACK Peak Load (lbs)	Comments	Separation (%)	INSIDE TRACK Peak Load (lbs)	Comments	Separation (%)
1	60.9	SE1 FTB	< 10	73.3	SE1 FTB	< 10
2	61.4	AD-BRK FTB	15	57.9	SE1 FTB	< 10
3	59.6	SE1 FTB	< 10	64.3	SE1 FTB	< 10
4	58.2	AD-BRK FTB	30	56.4	SE1 FTB	< 10
5	63.5	AD-BRK FTB	20	60.5	SE1 FTB	< 10
Average	60.7			62.5		

Bonded Seam (Shear) Test Data	Width (in)	Peak Load (lbs)	Comments
1	1.0	76.0	FTB
2	1.0	79.2	FTB
3	1.0	71.6	FTB
4	1.0	70.4	FTB
5	1.0	78.4	FTB
Average		75.1	

PEEL AND SHEAR TEST RESULTS

Client: Cashin & Associates
Project: Northport/Huntington Landfill
Material: 40 mil Textured VLDPE
Weld Type: Double Fusion

Job No.: 95G1820-03
Date Tested: 5/10/95
Technician: E.G./K.U.
Machine: ATS-900B/1105

SAMPLE NO. DS-3A

Peel Adhesion Test Data

Replicate No.	OUTSIDE TRACK Peak Load (lbs)	Comments	Separation (%)	INSIDE TRACK Peak Load (lbs)	Comments	Separation (%)
1	72.8	SE1 FTB	< 10	67.3	SE1 FTB	< 10
2	66.4	SE1 FTB	< 10	61.4	SE1 FTB	< 10
3	60.4	SE1 FTB	< 10	62.2	SE1 FTB	< 10
4	69.7	SE1 FTB	< 10	62.4	SE1 FTB	< 10
5	70.1	SE1 FTB	< 10	62.5	SE1 FTB	< 10
Average	67.9			63.2		

Bonded Seam (Shear) Test Data	Width (in)	Peak Load (lbs)	Comments
1	1.0	82.0	FTB
2	1.0	80.2	FTB
3	1.0	80.8	FTB
4	1.0	76.3	FTB
5	1.0	72.2	FTB
Average		78.3	

PEEL AND SHEAR TEST RESULTS

Client: Cashin & Associates
Project: Northport/Huntington Landfill
Material: 40 mil Textured VLDPE
Weld Type: Double Fusion

Job No.: 95G1820-03
Date Tested: 5/10/95
Technician: E.G./K.U.
Machine: ATS-900B/1105

SAMPLE NO. DS-3B

Peel Adhesion Test Data

Replicate No.	OUTSIDE TRACK Peak Load (lbs)	Comments	Separation (%)	INSIDE TRACK Peak Load (lbs)	Comments	Separation (%)
1	64.2	SE1 FTB	< 10	66.9	SE1 FTB	< 10
2	52.8	SE1 FTB	< 10	62.0	SE1 FTB	< 10
3	56.1	SE1 FTB	< 10	64.4	SE1 FTB	< 10
4	53.3	SE1 FTB	< 10	61.2	SE1 FTB	< 10
5	54.2	SE1 FTB	< 10	69.8	SE1 FTB	< 10
Average	56.1			64.9		

Bonded Seam (Shear) Test Data	Width (in)	Peak Load (lbs)	Comments
1	1.0	73.0	FTB
2	1.0	76.6	FTB
3	1.0	69.8	FTB
4	1.0	72.1	FTB
5	1.0	81.8	FTB
Average		74.7	

PEEL AND SHEAR TEST RESULTS

Client: Cashin & Associates
Project: Northport/Huntington Landfill
Material: 40 mil Textured VLDPE
Weld Type: Double Fusion

Job No.: 95G1820-03
Date Tested: 5/10/95
Technician: E.G./K.U.
Machine: ATS-900B/1105

SAMPLE NO. DS-4

Peel Adhesion Test Data

Replicate No.	OUTSIDE TRACK Peak Load (lbs)	Comments	Separation (%)	INSIDE TRACK Peak Load (lbs)	Comments	Separation (%)
1	56.6	SE1 FTB	< 10	58.5	SE1 FTB	< 10
2	62.2	SE1 FTB	< 10	56.8	SE1 FTB	< 10
3	55.8	SE1 FTB	< 10	64.5	SE1 FTB	< 10
4	70.5	SE1 FTB	< 10	52.3	SE1 FTB	< 10
5	62.5	SE1 FTB	< 10	58.5	SE1 FTB	< 10
Average	61.5			58.1		

Bonded Seam (Shear) Test Data	Width (in)	Peak Load (lbs)	Comments
1	1.0	77.8	FTB
2	1.0	81.3	FTB
3	1.0	78.6	FTB
4	1.0	78.8	FTB
5	1.0	78.1	FTB
Average		78.9	

PEEL AND SHEAR TEST RESULTS

ASTM D–4437

Client: Cashin & Associates
Project: Northport/Huntington Landfill
Material: 40 mil Textured VLDPE
Weld Type: Extrusion

Job No.: 95G1820–03
Date Tested: 5/10/95
Technician: E.G./K.U.
Machine: ATS–1105/900B

SAMPLE NO. DS–5

Peel Adhesion Test Data

Replicate No.	Width (in)	Peak Load (lbs)	Comments	Separation (%)
1	1.0	64.7	SE3 FTB	<10
2	1.0	61.5	SE3 FTB	<10
3	1.0	51.5	SE3 FTB	<10
4	1.0	43.8	SE3 FTB	<10
5	1.0	70.8	SE3 FTB	<10
Average		58.5		

Bonded Seam (S Test Data	Width (in)	Peak Load (lbs)	Comments
1	1.0	73.1	FTB
2	1.0	70.7	FTB
3	1.0	72.1	FTB
4	1.0	71.7	FTB
5	1.0	82.3	FTB
Average		74.0	

FTB–Film Tear Bond
NON–FTB–Seam separated during peel or shear testing.

PEEL AND SHEAR TEST RESULTS

ASTM D-4437

Client: Cashin & Associates
Project: Northport/Huntington Landfill
Material: 40 mil Textured VLDPE
Weld Type: Extrusion

Job No.: 95G1820-03
Date Tested: 5/10/95
Technician: E.G./K.U.
Machine: ATS-1105/900B

SAMPLE NO. DS-6

Peel Adhesion Test Data

Replicate No.	Width (in)	Peak Load (lbs)	Comments	Separation (%)
1	1.0	84.1	SE3 FTB	<10
2	1.0	84.6	SE3 FTB	<10
3	1.0	85.5	SE3 FTB	<10
4	1.0	93.8	SE3 FTB	<10
5	1.0	87.0	SE3 FTB	<10
Average		87.0		

Bonded Seam (S Test Data	Width (in)	Peak Load (lbs)	Comments
1	1.0	83.3	FTB
2	1.0	79.5	FTB
3	1.0	71.5	FTB
4	1.0	74.0	FTB
5	1.0	75.0	FTB
Average		76.7	

FTB-Film Tear Bond
NON-FTB-Seam separated during peel or shear testing.

PEEL AND SHEAR TEST RESULTS

Client: Cashin & Associates
Project: Northport/Huntington Landfill
Material: 40 mil Textured VLDPE
Weld Type: Double Fusion

Job No.: 95G1820-03
Date Tested: 5/10/95
Technician: E.G./K.U.
Machine: ATS-900B/1105

SAMPLE NO. DS-7

Peel Adhesion Test Data

Replicate No.	OUTSIDE TRACK Peak Load (lbs)	Comments	Separation (%)	INSIDE TRACK Peak Load (lbs)	Comments	Separation (%)
1	59.9	SE1 FTB	< 10	59.4	SE1 FTB	< 10
2	61.7	SE1 FTB	< 10	61.5	SE1 FTB	< 10
3	64.2	SE1 FTB	< 10	63.1	SE1 FTB	< 10
4	63.5	SE1 FTB	< 10	64.0	SE1 FTB	< 10
5	64.8	SE1 FTB	< 10	63.8	SE1 FTB	< 10
Average	62.8			62.4		

Bonded Seam (Shear) Test Data	Width (in)	Peak Load (lbs)	Comments
1	1.0	76.2	FTB
2	1.0	77.7	FTB
3	1.0	78.0	FTB
4	1.0	78.2	FTB
5	1.0	72.7	FTB
Average		76.6	

GeoSyntec Consultants

TOWN OF HUNTINGTON

REPAIR SUMMARY LOG

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 1995 year

PRIMARY: ☑ SECONDARY: ☐ OTHER: ☐ 40 mil VLDPE TEX. — CONTRACTOR: JDP

DATE (day/mo)	REPAIR LOCATION		REPAIR NO. AND CODE (1)	REPAIR TYPE (2)	REPAIR			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING				
	SEAM OR PANEL	MAPPING (DIST FROM 0-FT OR EDGE)			LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH NO.	OPER ID		DATE (day/mo)	OPER ID	PASS/ FAIL	ACTION	QA ID
26/4	P1/P2	0	R1-P	E	3	2		G281	KP	MT	27/4	CD	P	—	MT
	P3/P4	3'	R2-P		3	2		G291	TT	MT		YS	P		MT
	P4/P5	2'	R3-P		2.5	2				MT			P		MT
	P3/P4	13	R4-P		1.5	1.5				MT			P		MT
	P3/P4	28	R5-T		0.5	—				MT			P		MT
27/7	P1/P2	33	R6-P		6	3				MT		CD	P		MT
	P1/P2	48	R7-DS1		6	2				MT			P		MT
	P2	100' 6' from P1/P2	R8-G		0.5	—		G281	KP	MT			P		MT
	P1/P2	120	R9-P		8	2				MT			P		MT
	P2	152' 4' from P1/P2	R10-P		3	2			YS	MT			P		MT
	P1/P2	170	R11-P		2	2				MT			P		MT
	P1/P2	174	R12-P		2	1				MT			P		MT
	P1/P2	172	R13-G		2.5	—				MT			P		MT
	P3	144' 1' from P2/P3	R14-G		0.5	—				MT			P		MT
(15)	P2/P3	158	R15-P		10	2				MT			P		MT

NOTES: (1) REPAIR NO.: REPAIRS CAN BE NUMBERED SEQUENTIALLY, IF NECESSARY.
(1) REPAIR CODES: P = PATCH, C = CAP, S= ANCHOR TRENCH EXTENSION (SKIRT), DS = DESTRUCTIVE SAMPLE, G = GRIND & WELD, T = TOPPING ALONG FUSION SEAM, R = RECONSTRUCTION
(2) REPAIR TYPES: E = EXTRUSION, F = FUSION

141 L.F. of extrusion welding

GeoSyntec Consultants

TOWN OF HUNTINGTON

REPAIR SUMMARY LOG

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 27 day 4 month 95 year

PRIMARY: ☑ SECONDARY: ☐ OTHER: ☐ 40mil VLDPE TEX. CONTRACTOR: JDP

DATE (day/mo)	REPAIR LOCATION		REPAIR NO. AND CODE (1)	REPAIR TYPE (2)	REPAIR			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING				
	SEAM OR PANEL	MAPPING (DIST FROM 0-FT OR EDGE)			LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH NO.	OPER ID		DATE (day/mo)	OPER ID	PASS/ FAIL	ACTION	QA ID
27/4	P3/4	66'	R16-P	E	5	2	—	291	TT	MJ	27/4	YS	P	—	MJ
11	P3	15' 11' Fr. P3/4	R17-G	E	0.5	—	-	291	TT	MJ	11	11	P	-	MJ
11	P3	17' 11' Fr. P3/4	R18-G	E	0.5	—	-	291	TT	MJ	11	11	P	-	MJ
11	P4	7' 9' Fr. P3/4	R19-G	E	0.5	-	-	291	TT	MJ	11	11	P	-	MJ
11	P2/3	AT	R20-P	E	8	2	-	291	TT	MJ	11	11	P	-	MJ
11	P2/3	AT	R21-P	E	5	2	-	291	TT	MJ	11	11	P	-	MJ
11	P2/3	AT	R22-P	E	1.5	1.5	-	291	TT	MJ	11	11	P	-	MJ
11	P4/5	8'	R23-T	E	0.5	—	-	291	TT	MJ	11	11	P	-	MJ
11	P4/5	14'	R24-T	E	0.5	—	-	291	TT	MJ	11	11	P	-	MJ
11	P4/5	56'	R25-T	E	0.5	—	-	291	JT	MJ	11	11	P	-	MJ
11	P4/5	63'	R26-T	E	1.0	—	-	291	JM	MJ	11	11	P	-	MJ
11	P4/5	75'	R27-P	E	2	2	-	291	JM	MJ	11	11	P	-	MJ
11	P4/5	96'	R28-P	E	3	2	—	291	JM	MJ	11	11	P	—	MJ
11	P5/6	4'	R29-P	E	3	3	—	291	TT	MJ	11	11	P	—	MJ
(15)	P5	15' 2' Fr. 5/6	R30-G	E	0.5	—	—	291	TT	MJ	11	11	P	-	MJ

NOTES: (1) REPAIR NO.: REPAIRS CAN BE NUMBERED SEQUENTIALLY, IF NECESSARY.
(1) REPAIR CODES: P = PATCH, C = CAP, S= ANCHOR TRENCH EXTENSION (SKIRT), DS = DESTRUCTIVE SAMPLE, G = GRIND & WELD, T = TOPPING ALONG FUSION SEAM, R = RECONSTRUCTION
(2) REPAIR TYPES: E = EXTRUSION, F = FUSION

94.5 L.F.

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

REPAIR SUMMARY LOG

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 27 day 4 month 95 year

PRIMARY: ☑ SECONDARY: ☐ OTHER: ☐ 40 mil VLDPE TEX. — CONTRACTOR: JDP

DATE (day/mo)	REPAIR LOCATION		REPAIR NO. AND CODE (1)	REPAIR TYPE (2)	REPAIR			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING				
	SEAM OR PANEL	MAPPING (DIST FROM 0-FT OR EDGE)			LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH NO.	OPER ID		DATE (day/mo)	OPER ID	PASS/ FAIL	ACTION	QA ID
27/4	P5/6	49'	R31-P	E	-	-	2	291	TT	MJ	27/4	KY		Bead over puncture	MJ
"	"	65'	R32-DSZ	E	6	2	-	291	TT	MJ	"	"	P	-	MJ
"	"	107'	R33-P	E	-	-	2	291	JM	MJ	"	"	P	-	MJ
"	P6	110' 2'Fr P5/6	R34-P	E	1.5	1.5	-	291	JM	MJ	"	YS	P	-	MJ
"	P5/6	135'	R35-P	E	7	1.5	-	291	TT	MJ	"	"	P	-	MJ
"	"	150'	R36-P	E	2	5	-	291	TT	MJ	"	KY	P	-	MJ
"	P6	148' 1'Fr P5/6	R37-G	E	0.5	-	-	291	TT	MJ	"	YS	P	-	MJ
"	P4/5	140'	R38-P	E	6	2	-	291	TT	MJ	"	"	P	-	MJ
"	"	148'	R39-P	E	-	-	2	291	TT	MJ	"	"	P	-	MJ
"	"	157'	R40-P	E	8	2	-	281	YS	MJ	"	"	P	-	MJ
"	P5	6'Fr 4/5 155'	R41-R	E	-	-	1.5	291	TT	MJ	"	"	P	-	MJ
"	P5	" 159'	R42-G	E	8	-	-	291	TT	MJ	"	"	P	-	MJ
"	P4/5	118'	R43-T	E	0.5	-	-	291	JM	MJ	"	"	P	-	MJ
"	P4	35' 1'Fr P4/5	R44-G	E	0.5	-	-	291	TT	MJ	"	"	P	-	MJ
(15) "	P3/4	108	R45-C	E	16	2	-	281	YS	MJ	"	"	P	-	MJ

NOTES: (1) REPAIR NO.: REPAIRS CAN BE NUMBERED SEQUENTIALLY, IF NECESSARY.
(1) REPAIR CODES: P = PATCH, C = CAP, S = ANCHOR TRENCH EXTENSION (SKIRT), DS = DESTRUCTIVE SAMPLE, G = GRIND & WELD, T = TOPPING ALONG FUSION SEAM, R = RECONSTRUCTION
(2) REPAIR TYPES: E = EXTRUSION, F = FUSION

160 L.F.

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TOWN OF HUNTINGTON

REPAIR SUMMARY LOG

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 27 day 4 month 95 year

PRIMARY: ☑ SECONDARY: ☐ OTHER: ☐ 40 mil VLDPE Tex. CONTRACTOR: JDP

DATE (day/mo)	REPAIR LOCATION		REPAIR NO. AND CODE (1)	REPAIR TYPE (2)	REPAIR			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING				
	SEAM OR PANEL	MAPPING (DIST FROM 0-FT OR EDGE)			LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH NO.	OPER ID		DATE (day/mo)	OPER ID	PASS/ FAIL	ACTION	QA ID
27/4	P3/4	153'	R46-P	E	6	5	-	281	KP	MJ	27/4	YS	P	-	MJ
11	P5/6	49' P18	R47-G	E	0.5	-	-	291	TT	MJ	11	YS	P	-	MJ
11	P2/3	4'	R48-P	E	1.5	1.5	-	291	TT	MJ	11	YS	P	-	MJ
(15)															

NOTES: (1) REPAIR NO.: REPAIRS CAN BE NUMBERED SEQUENTIALLY, IF NECESSARY.
(1) REPAIR CODES: P = PATCH, C = CAP, S= ANCHOR TRENCH EXTENSION (SKIRT), DS = DESTRUCTIVE SAMPLE, G = GRIND & WELD, T = TOPPING ALONG FUSION SEAM, R = RECONSTRUCTION
(2) REPAIR TYPES: E = EXTRUSION, F = FUSION

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TOWN OF HUNTINGTON

REPAIR SUMMARY LOG

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 5 day 5 month 95 year

PRIMARY: ☑ SECONDARY: ☐ OTHER: ☐ 40 mil VLDPE TEX. — CONTRACTOR: JDP

DATE (day/mo)	REPAIR LOCATION		REPAIR NO. AND CODE (1)	REPAIR TYPE (2)	REPAIR			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING				
	SEAM OR PANEL	MAPPING (DIST FROM 0-FT OR EDGE)			LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH NO.	OPER ID		DATE (day/mo)	OPER ID	PASS/ FAIL	ACTION	QA ID
5/5	7/8	19'	R49P	E	2	2	–	281	YS	MJ	5/5	KAY	P	–	MJ
	P-8	32' 3' From 7/8	R50G		0.5	–	–	"	"	MJ			P	–	MJ
	P-8	9.5' 4' From 7/8	R51P		–	–	1	"	KP	MJ			P	–	MJ
	8/9	15'	R52P		2	2	–	"	YS	MJ			P	–	MJ
	8/9	4.5'	R53C		9	1	–	"	KP	MJ			P	–	MJ
	P-9	1.5' 3' From 8/9	R54P		1	1	–	"	YS	MJ			P	–	MJ
	P-9	5' "	R55G		0.5	–	–	"	"	MJ			P	–	MJ
	10	1.5' 2' From 9/10	R56P		–	–	1	"	KP	MJ			P	–	MJ
	10	1.5' 1' From 9/10	R57G		2	–	–	"	"	MJ			P	–	MJ
	9/10	17'	R58P		–	–	2	"	YS	MJ			P	–	MJ
	10/11	18'	R59P		–	–	3	291	TT	MJ			P	–	MJ
	P-11	18' 8' From 10/11	R60P		–	–	1	291	TT	MJ			P	–	MJ
	11/12	16'	R61P		3	2	–	"	"	MJ			P	–	MJ
	11/12	7'	R62P		7	2	–	"	"	MJ			P	–	MJ
(15)	P-11	2' 4' From 11/12	R63G		0.5	–	–	"	"	MJ			P	–	MJ

NOTES: (1) REPAIR NO.: REPAIRS CAN BE NUMBERED SEQUENTIALLY, IF NECESSARY.
(1) REPAIR CODES: P = PATCH, C = CAP, S = ANCHOR TRENCH EXTENSION (SKIRT), DS = DESTRUCTIVE SAMPLE, G = GRIND & WELD, T = TOPPING ALONG FUSION SEAM, R = RECONSTRUCTION
(2) REPAIR TYPES: E = EXTRUSION, F = FUSION

96 L.F.

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

REPAIR SUMMARY LOG

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 95 year

PRIMARY: ☑ SECONDARY: ☐ OTHER: ☐ 40 mil VLDPE — CONTRACTOR: JDP

DATE (day/mo)	REPAIR LOCATION		REPAIR NO. AND CODE (1)	REPAIR TYPE (2)	REPAIR			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING				
	SEAM OR PANEL	MAPPING (DIST FROM 0-FT OR EDGE)			LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH NO.	OPER ID		DATE (day/mo)	OPER ID	PASS/ FAIL	ACTION	QA ID
5/5	MJ 7/8 11/12	+9' MJ 2.5'	R64C	E	22	5	–	291	TT	MJ	5/5	KAY	P	–	MJ
	9/10	42'	R65DS-3		6	2	–	"	"	MJ			P	–	MJ
	P-9	53' 7' From 9/10	R66 P		–	–	1	"	"	MJ			P	–	MJ
	"	61' 11' From 9/10	R67 P		–	–	1	"	"	MJ			P	–	MJ
	10/11	90'	R68 P		2	1	–	"	"	MJ			P	–	MJ
	11/12	89'	R69 P		2	1	–	"	"	MJ			P	–	MJ
	P-8	84' 6' Fr. 8/9	R70 G		0.5			"	"	MJ			P	–	MJ
	"	90' "	R71 G		0.5			"	"	MJ			P	–	MJ
	"	25' 4' "	R72 P		–	–	1	"	"	MJ			P	–	MJ
5/5	"	9.5' 2' Fr. 7/8	R73 G	E	3	–	½ MJ	"	"	MJ			P	–	MJ
"	P-10	18' 8' Fr. 9/10	R74 G	E	0.5	–	–	"	"	MJ	5/5	TT	P	–	MJ
(15)															

NOTES: (1) REPAIR NO.: REPAIRS CAN BE NUMBERED SEQUENTIALLY, IF NECESSARY.
(1) REPAIR CODES: P = PATCH, C = CAP, S = ANCHOR TRENCH EXTENSION (SKIRT), DS = DESTRUCTIVE SAMPLE, G = GRIND & WELD, T = TOPPING ALONG FUSION SEAM, R = RECONSTRUCTION
(2) REPAIR TYPES: E = EXTRUSION, F = FUSION

93 L.F.

Total L.F of extrusion welding in Repair log - GR

P.P 613 LF

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TOWN OF HUNTINGTON

REPAIR SUMMARY LOG

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 08 day 05 month 95 year

PRIMARY: ☑ SECONDARY: ☐ OTHER: ☐ 40 MIL VLDPE — CONTRACTOR: JDP

DATE (day/mo)	REPAIR LOCATION		REPAIR NO. AND CODE (1)	REPAIR TYPE (2)	REPAIR			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING				
	SEAM OR PANEL	MAPPING (DIST FROM 0-FT OR EDGE)			LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH NO.	OPER ID		DATE (day/mo)	OPER ID	PASS/ FAIL	ACTION	QA ID
8/5	14/15	0'	R75P	E	2	2	-	281	KP	MJ	9/5	CD	P	-	MJ
"	13/14		R76T	E	0.5	-	-	"	"	MJ	"	"	P	-	MJ
"	1/2/13/14	—	R77P	E	3	4	-	"	"	MJ	"	"	P	-	MJ
"	2/14	3' From 2/3/14/15	R78DS-4	E	6	2	-	"	"	MJ	"	"	P	-	MJ
"	14/15	32'	R79P	E	3	3	-	"	"	MJ	"	"	P	-	MJ
"	15/16	28'	R80T	E	0.5	-	-	"	"	MJ	"	"	P	-	MJ
"	15/16	34'	R81P	E	3	2	-	"	"	MJ	"	"	P	-	MJ
"	16	49' 9' From 16/17	R82P	E	1	1	-	"	"	MJ	"	"	P	-	MJ
"	1/2	2'	R83T	E	3	-	-	"	"	MJ	"	"	P	-	MJ
"	1/2	4.5'	R84P	E	1	1	-	"	"	MJ	"	"	P	-	MJ
9/5	2/14	11'	R85P	E	6	2	-	"	"	MJ	"	"	P	-	MJ
"	2/14	R85	R86-DS6	E	6	2	-	"	"	MJ	"	"	P	-	MJ
"	2/3	2'	R87P	E	5	2	-	"	"	MJ	"	"	P	-	MJ
"	14/15/16	~~2.5'~~ MJ 0'	R88P	E	2	2	-	"	"	MJ	"	"	P	-	MJ
(15) 1	3/4	2.5'	R89T	E	5	-	-	"	"	MJ	"	"	P	-	MJ

NOTES: (1) REPAIR NO.: REPAIRS CAN BE NUMBERED SEQUENTIALLY, IF NECESSARY.
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(2) REPAIR TYPES: E = EXTRUSION, F = FUSION

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TOWN OF HUNTINGTON

REPAIR SUMMARY LOG

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 9 day 5 month 95 year

PRIMARY: ☑ SECONDARY: ☐ OTHER: ☐ 40 MIL VLDPE TEX. CONTRACTOR: JDP

DATE (day/mo)	REPAIR LOCATION		REPAIR NO. AND CODE (1)	REPAIR TYPE (2)	REPAIR			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING				
	SEAM OR PANEL	MAPPING (DIST FROM 0-FT OR EDGE)			LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH NO.	OPER ID		DATE (day/mo)	OPER ID	PASS/ FAIL	ACTION	QA ID
9/5	P-4	0' 2' Fr. 4/5	R90G	E	4	-	-	281	KP	MJ	9/5	CD	P	-	MJ
"	4/5	2'	R91G	E	4	-	-	281	KP	MJ			P		MJ
"	5/6/17/18	-	R92P	E	3	3	-	281	KP	MJ			P		MJ
"	P-6	1' 2' Fr. 5/6	R93G	E	3	-	-	281	KP	MJ			P		MJ
"	"	2' 4' Fr. 5/6	R94P	E	-	-	2	281	KP	MJ			P		MJ
"	4/5/16/17	-	R95P	E	3	2	-	281	KP	MJ			P		MJ
"	P-4	2' 4' Fr. 4/5	R96P	E	-	-	2	281	KP	MJ			P		MJ
"	3/10	5' Fr. 2/3/10/11	R97DS5	E	6	2	-	281	TT	MJ			P		MJ
"	11/12	19'	R98DS7	E	6	2	-	281	TT	MJ			P		MJ
"	9/10	56'	R99DS39	E	6	2	-	281	TT	MJ			P		MJ
"	"	28'	R100DS38	E	6	2	-	281	TT	MJ			P		MJ
"	"	30'-39'	R101C	E	9	2	-	281	TT	MJ			P		MJ
"	"	44'-54'	R102C	E	10	2	-	281	TT	MJ			P		MJ
"	"	59'-91.5'	R103C	E	32.5	2	-	281	TT	MJ			P		MJ
(15)	MJ	"													

NOTES: (1) REPAIR NO.: REPAIRS CAN BE NUMBERED SEQUENTIALLY, IF NECESSARY.
(1) REPAIR CODES: P = PATCH, C = CAP, S = ANCHOR TRENCH EXTENSION (SKIRT), DS = DESTRUCTIVE SAMPLE, G = GRIND & WELD, T = TOPPING ALONG FUSION SEAM, R = RECONSTRUCTION
(2) REPAIR TYPES: E = EXTRUSION, F = FUSION

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

REPAIR SUMMARY LOG

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 30 day 05 month 95 year

PRIMARY: ☑ SECONDARY: ☐ OTHER: ☐ 40 MIL VLDPE TEX — CONTRACTOR: JDP

DATE (day/mo)	REPAIR LOCATION		REPAIR NO. AND CODE (1)	REPAIR TYPE (2)	REPAIR			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING				
	SEAM OR PANEL	MAPPING (DIST FROM 0-FT OR EDGE)			LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH NO.	OPER ID		DATE (day/mo)	OPER ID	PASS/ FAIL	ACTION	QA ID
30/5	P3/4	13'	R104P	E	—	—	2	291	KP	MJ	30/5	KP	P	—	MJ
31/5	P3/4	13'	R105P	E	-	-	3	291	RF	MJ	31/5	RF	P	-	MJ
9/5	19/20	442'-420	R106C	F	22	2	-	1154	KO	MJ	9/6	YS	P	—	MJ
		420'	R107P	E	3	2	-	291	KC	MJ			P		"
		420-398	R108C	F	22	2	—	1154	KO	MJ	9/6	YS	P	—	MJ
		398'	R109P	E	3	3	—	291	KC	MJ			P		"
		397	R110G	E	1	—	-	291	KC	MJ			P		"
		396	R111P	E	1	1	—	291	KC	MJ			P		"
		376-398	R112C	F	22	2	-	1154	KO	MJ	9/6	YS	P	—	MJ
		375	R113P	E	4	3	-	291	KC	MJ			P		"
	19	384' 10'FR 19/20	R114P	E	4	3	-	291	KC	MJ			P		"
	19/20	360'	R115P	E	2	2	-	291	KC	MJ			P		"
		330'	R116P	E	3	2	-	291	KC	MJ			P		"
		288-305	R117C	E	22	2	—	291	KC	MJ			P		"
(15)		271-283	R118C	E	22	2	-	291	KC	MJ			P		"

NOTES: (1) REPAIR NO.: REPAIRS CAN BE NUMBERED SEQUENTIALLY, IF NECESSARY.
(1) REPAIR CODES: P = PATCH, C = CAP, S = ANCHOR TRENCH EXTENSION (SKIRT), DS = DESTRUCTIVE SAMPLE, G = GRIND & WELD, T = TOPPING ALONG FUSION SEAM, R = RECONSTRUCTION
(2) REPAIR TYPES: E = EXTRUSION, F = FUSION

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TOWN OF HUNTINGTON

SEAM AND PANEL REPAIR LOCATION LOG

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 28 day 4 month 95 year

CONTRACTOR: JDP / GUNDLE

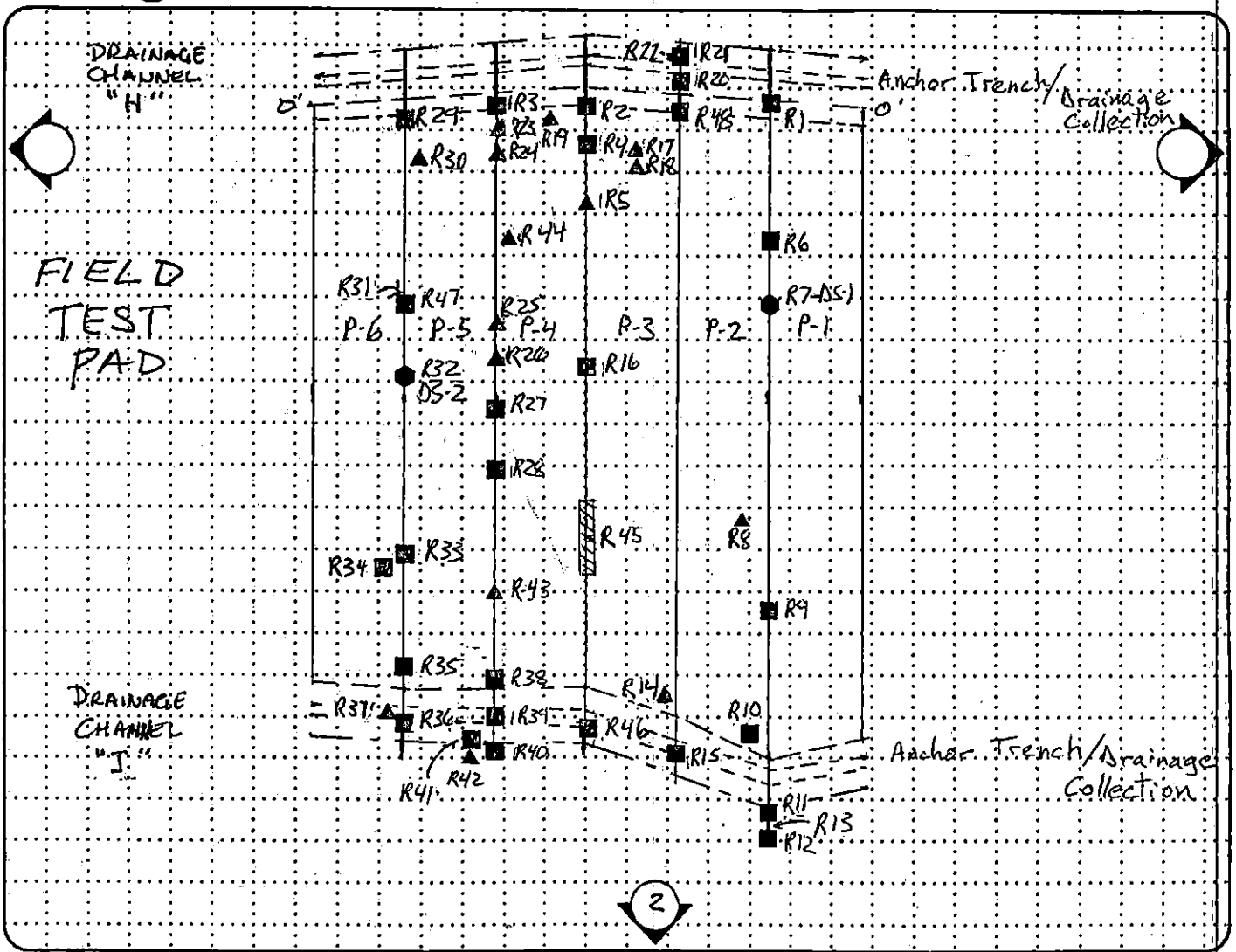
PRIMARY: ☒ SECONDARY: ☐ OTHER: ☐ PRODUCT TYPE: 40 mil VLDPE TEX

NORTH

NOTE: SEE OTHER SIDE FOR SYMBOLS

3

QA ID: _____



SEAM NO.:							Total Sq. Ft: 19,261 ft²
PANEL NO.:	P1	P2	P3	P4	P5	P6	
AVG PANEL LENGTH:	154.5	153	145.5	142.5	141	139	
AVG PANEL WIDTH:	22.0	22.0	22.0	22.0	22.0	22.0	
AREA: (ft²)	3399	3366	3201	3135	3102	3058	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

SEAM AND PANEL REPAIR LOCATION LOG (STANDARD)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 5 day 5 month 95 year

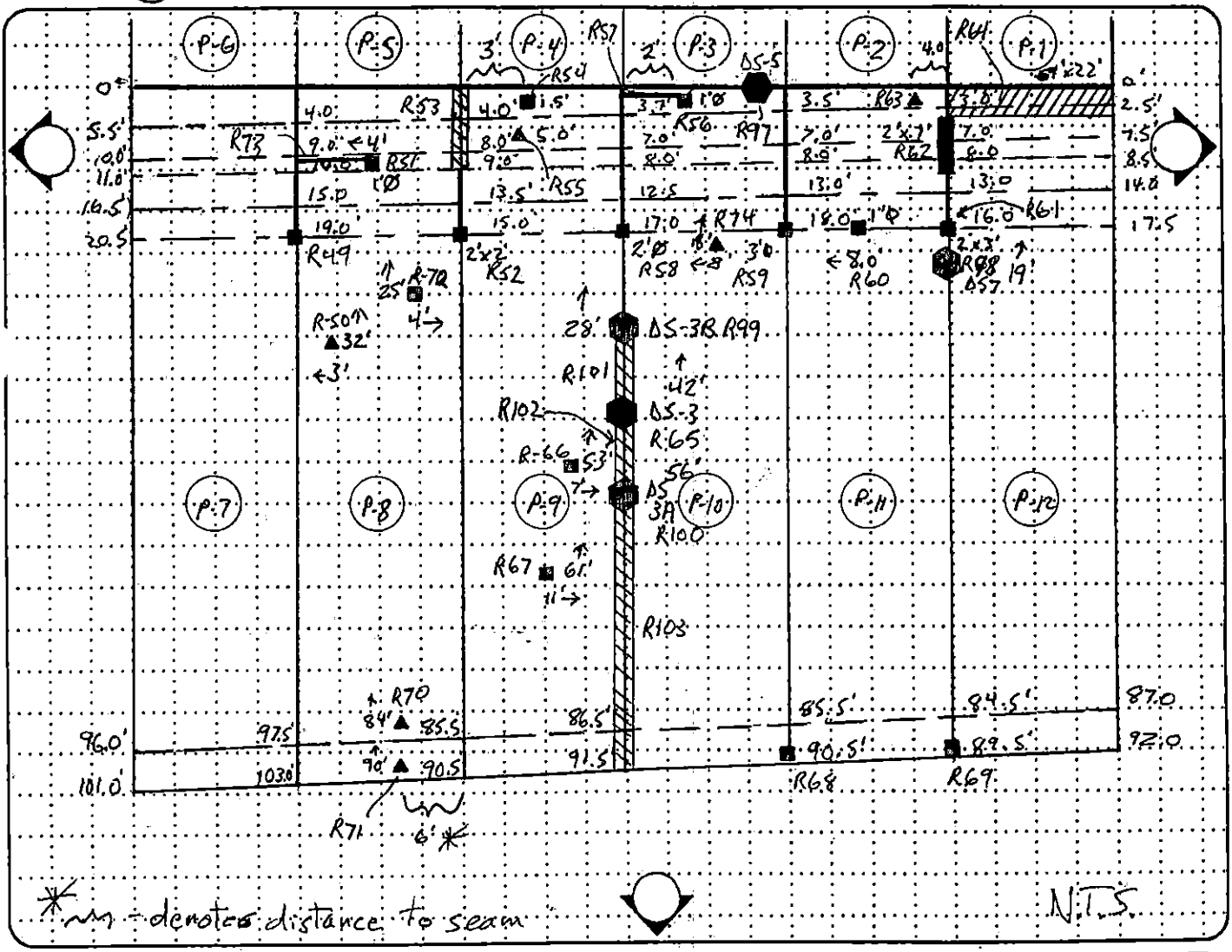
CONTRACTOR: Gundle

PRIMARY: ☐ SECONDARY: ☐ OTHER: ☐ PRODUCT TYPE: 40 mil VLDPE TEXT.

NORTH

NOTE: SEE OTHER SIDE FOR SYMBOLS

QA ID: MJ



SEAM NO.:									
PANEL NO.:	P7	P8	P9	P10	P11	P12			
AVG PANEL LENGTH:	102.0	97.0	91.0	91.0	90.0	91.0			
AVG PANEL WIDTH:	22.2	22.2	22.2	22.2	22.2	22.2			
AREA: (ft^2)	2264	2153 GD	2020 GD	2020 GD	1998 GD	2020 GD	Total	12,475 GD	Ft^2

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

SEAM AND PANEL REPAIR LOCATION LOG (STANDARD)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 9 day 5 month 95 year

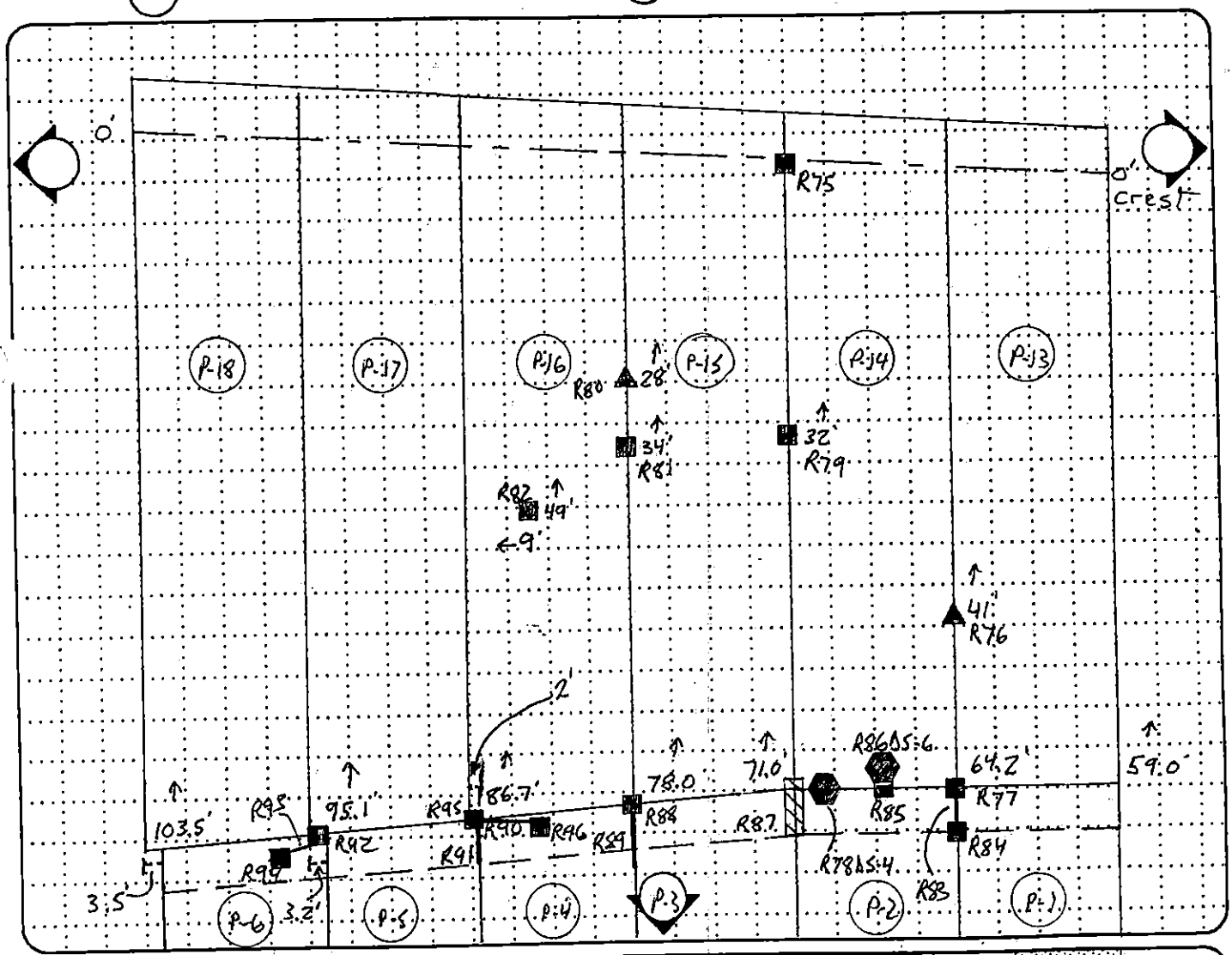
CONTRACTOR: JDP

PRIMARY: ☑ SECONDARY: ☐ OTHER: ☐ PRODUCT TYPE: 40 mil VLDPE TEXT

NORTH

NOTE: SEE OTHER SIDE FOR SYMBOLS

QA ID: MJ



SEAM NO.:									
PANEL NO.:	13	14	15	16	17	18			
AVG PANEL LENGTH:	61.6	66.9	74.5	82.4	90.9	99.3	total		
AVG PANEL WIDTH:	22.2	22.2	22.2	22.2	22.2	22.2			
AREA: (ft^2)	1367.5	1485.2	1653.9	1829.3	2018.0	2204.5	10558 ft^2		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

SEAM AND PANEL REPAIR LOCATION LOG

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 9 day 5 month 95 year

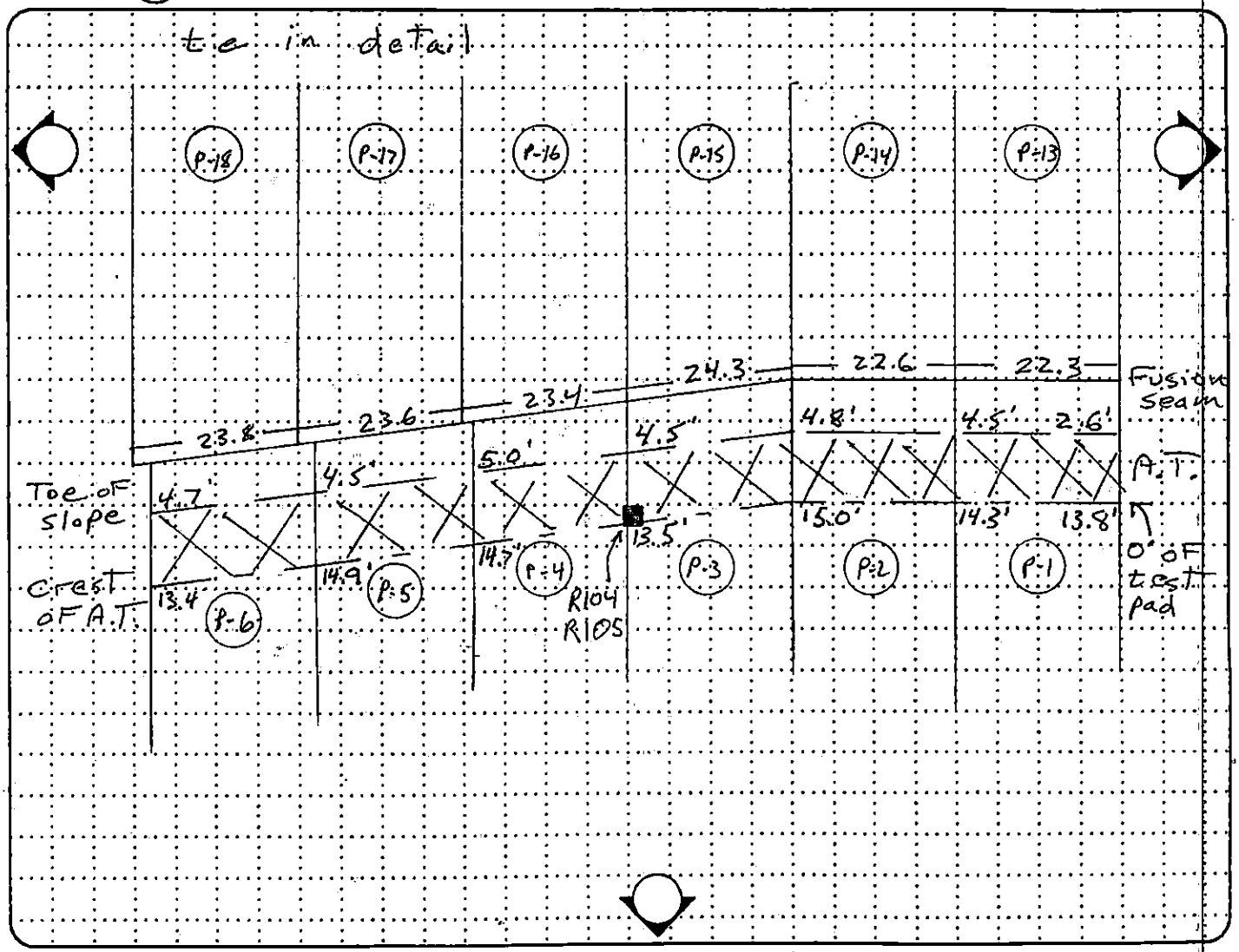
CONTRACTOR: JPP / Gundle

PRIMARY: ☑ SECONDARY: ☐ OTHER: ☐ PRODUCT TYPE: 40 mil VLDPE

NORTH

NOTE: SEE OTHER SIDE FOR SYMBOLS

QA ID: MJ



SEAM NO.:	
PANEL NO.:	
AVG PANEL LENGTH:	
AVG PANEL WIDTH:	
AREA: (ft^2)	

APPENDIX G

MISCELLANEOUS SOILS

TEST RESULTS

SUB APPENDIX G–1

CLAY PLUG

GeoSyntec Consultants

TOWN OF HUNTINGTON

SOIL SAMPLE LOG

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 28 day 7 month 95 year

SITE SAMPLE NO.	OFF-SITE LAB SAMPLE NO.	SOIL DESCRIPTION	SOURCE (LOCATION, DEPTH, ELEVATION)	MATERIAL TYPE	DATE (day/mo)	TEST METHODS	QA ID
CLAY-1		DK. BR. CLAY	MT. BETHEL Homus Co. New Jersey Pit	CLAY (1X10-7)	28/7	*HYD. CONDUCTIVITY * SOIL CLASSIFICATION	DW

NOTES:

GeoSyntec Consultants

TOWN OF HUNTINGTON

LABORATORY TEST SUMMARY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 28 day 7 month 95 year

SOURCE: MATERIAL TYPE: CLAY (USCS) QA ID: DW

NOTE: Separate forms are required for each material type and source. All samples must have a site sample number and be recorded on the soil-sample log.

SITE SAMPLE NO.	GEL SAMPLE NO.	SAMPLE MOISTURE CONTENT ASTM D 2216 (%)	GRAIN SIZE			ATTERBURG LIMITS ASTM D 4318			SOIL CLASSIFICATION ASTM D 2487	DIRECT SHEAR	INTERF FRICT. ANGLE	COMPACTION ASTM D 698 (or) ASTM D 1557		PERMEABILITY ASTM D 2434[1] (or) ASTM D 5084[2]			PASS/ FAIL	ACUMUL. QUANT. PLACED (APPROX)
			PASSING NO. 200 SIEVE ASTM D 1140 (%)	ASTM D 422 SIEVE	ASTM D 422 HYDR.	LL (%)	PL (%)	PI		ASTM D3080 °(deg)	ASTM D5321 °(deg)	MAX. DRY UNIT WT. (pcf)	OPT. MOIST. CONT. (%)	DRY UNIT WT. (pcf)	MOIST. CONT. ASTM D 2216 (%)	HYDRAULIC COND'VITY (cm/sec)		(yd^3)
Clay-1						37	23	14	CL - Lean Clay			105.4	20.9	101.0	24.4	$2.6 E^{-8}$		

COMMENTS:

NOTES: (1) HYDRAULIC CONDUCTIVITY DETERMINED AT A HYDRAULIC GRADIENT OF ____.

(2) HYDRAULIC CONDUCTIVITY DETERMINED AT AN EFFECTIVE CONFINING STRESS OF ____.

GEO SYNTEC CONSULTANTS
Geomechanics and Environmental Laboratory
Atlanta, Georgia

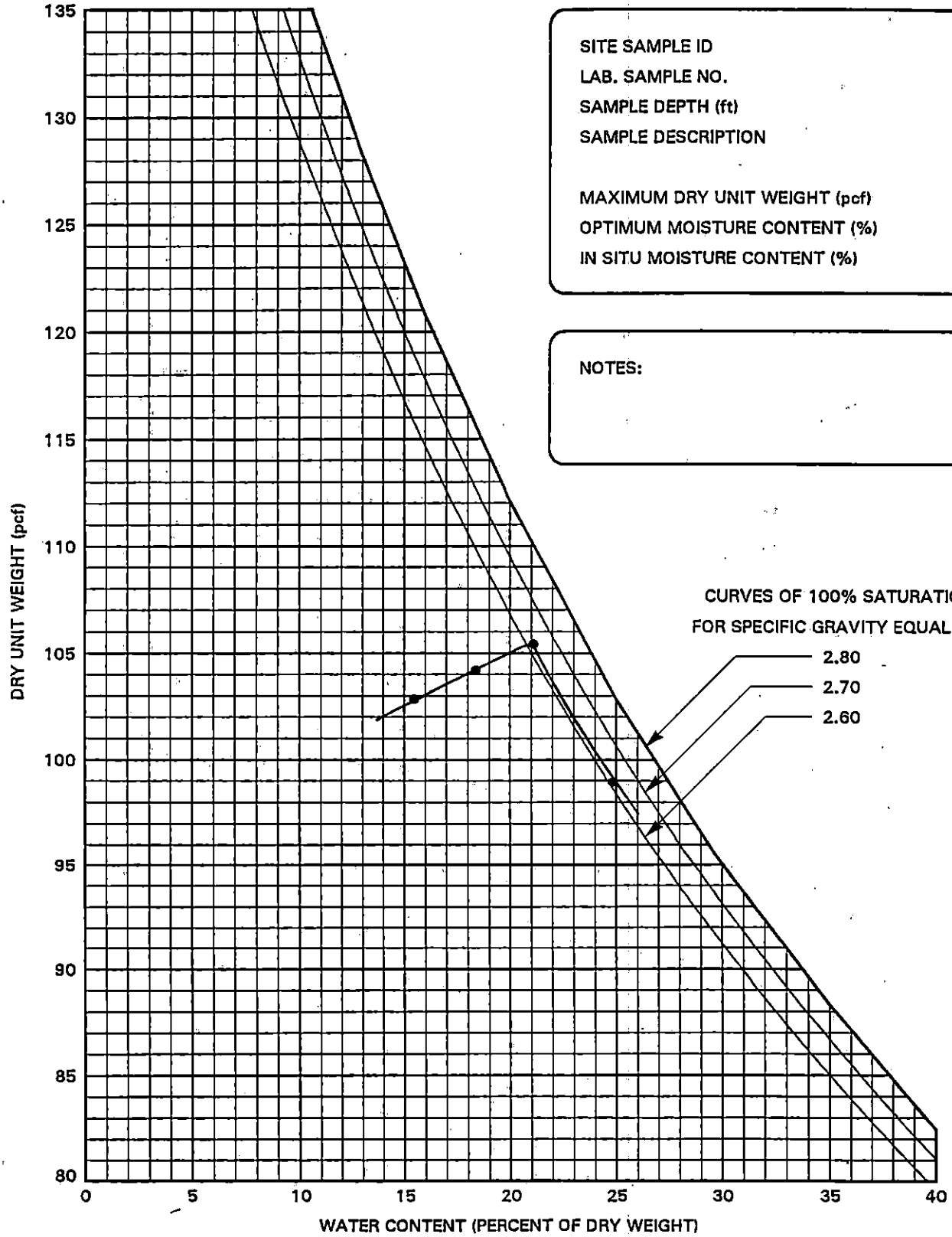
FIGURE

PROJECT: HUNTINGTON/EAST NORTHPORT LF
PROJECT NO.: GQ3700
DOCUMENT NO.:

GS FORM: 4MD1 08/15/95

MOISTURE-DENSITY RELATIONSHIP, COMPACTION TESTING

ASTM D-698-B



SITE SAMPLE ID	Clay-1
LAB. SAMPLE NO.	95H29
SAMPLE DEPTH (ft)	
SAMPLE DESCRIPTION	
MAXIMUM DRY UNIT WEIGHT (pcf)	105.4
OPTIMUM MOISTURE CONTENT (%)	20.9
IN SITU MOISTURE CONTENT (%)	

NOTES:

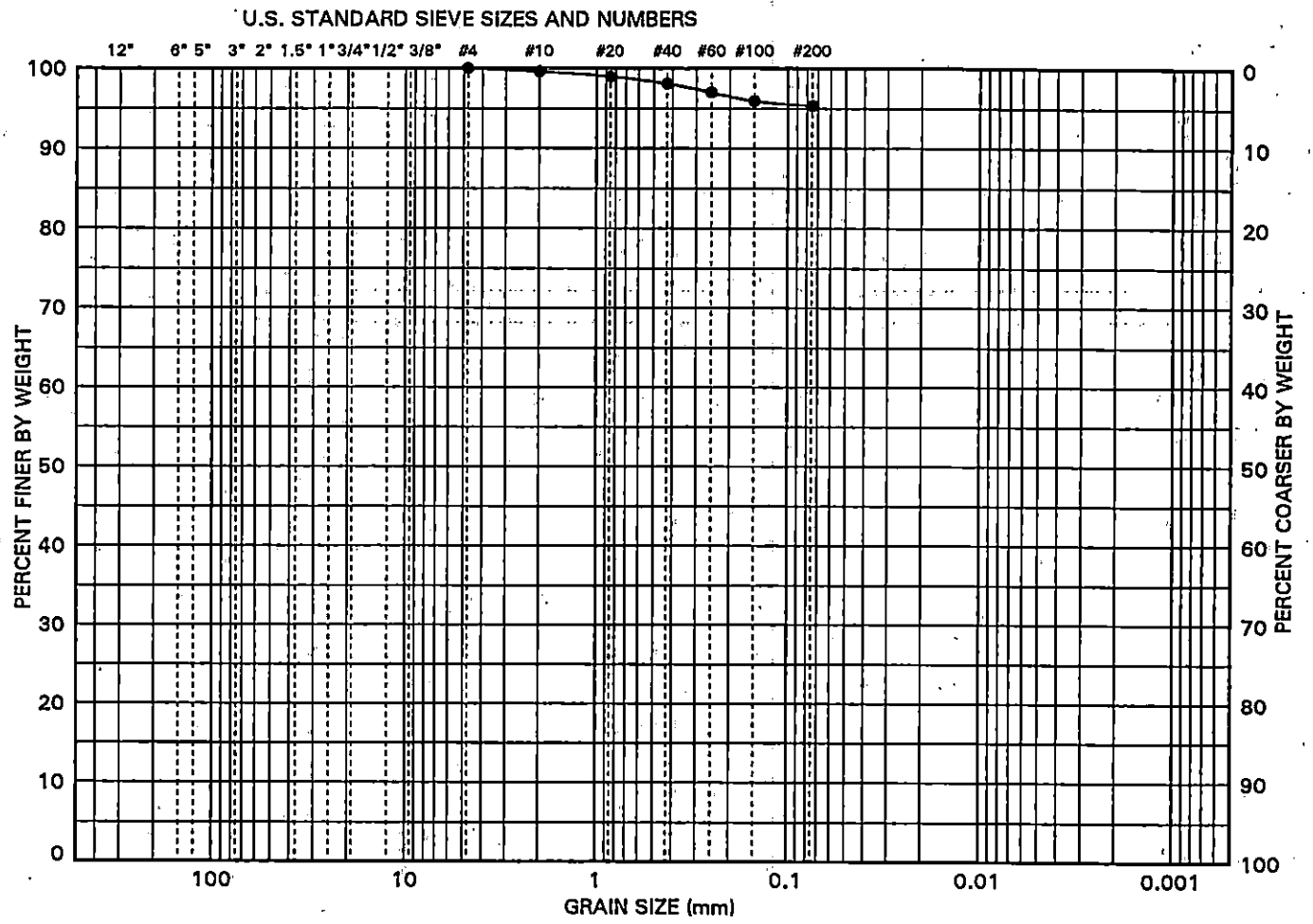
GEO SYNTEC CONSULTANTS
Geomechanics and Environmental Laboratory
Atlanta, Georgia

FIGURE
PROJECT: HUNTINGTON/EAST NORTHPORT LF
PROJECT NO.: GQ3700
DOCUMENT NO.:

GS FORM: 4PS2 08/08/95

PARTICLE SIZE DISTRIBUTION AND PHYSICAL PROPERTIES

ASTM C 136, D 422, D 2487 D 3042 AND D 4318



BOULDERS	COBBLES	GRAVEL: COARSE	GRAVEL: FINE	SAND: COARSE	SAND: MEDIUM	SAND: FINE	FINES: SILT	FINES: CLAY

SITE SAMPLE ID	Clay-1	LIQUID LIMIT (%)	37	SOIL FRACTIONS: GRAVEL (%)	0.0
LAB. SAMPLE NO.	95H29	PLASTIC LIMIT (%)	23	SAND (%)	4.7
SAMPLE DEPTH (ft)		PLASTICITY INDEX	14	FINES (%)	95.3
SOIL CLASSIFICATION: CL - Lean Clay				SILT (%)	
				CLAY(%)	
				COEFF. UNIFORMITY (Cu)	
				COEFF. CURVATURE (Cc)	

PERCENT PASSING U.S. STANDARD SIEVE SIZES AND NUMBERS

3"	2"	1.5"	1"	3/4"	1/2"	3/8"	#4	#10	#20	#40	#60	#100	#200

PERCENT PASSING SIEVE SIZES (mm)

75	50	37.5	25	19	12.5	9.5	4.75	2.00	0.850	0.425	0.250	0.150	0.075
00	100	100	100	100	100	100	100	100	99	98	97	96	95

PERCENT FINER THAN HYDROMETER PARTICLE DIAMETER (mm)

0.050	0.020	0.005	0.002	0.001

NOTES:

SUB APPENDIX G–2

STRUCTURAL FILL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

SOIL SAMPLE LOG STRUCTUAL FILL

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: ____ day ____ month 95-96 year

SITE SAMPLE NO.	OFF-SITE LAB SAMPLE NO.	SOIL DESCRIPTION	SOURCE (LOCATION, DEPTH, ELEVATION)	MATERIAL TYPE	DATE (day/mo) yr	TEST METHODS	QA ID
ST-1		WELL GRADED SAND	(BANK RUN) SCHNEIDER QUARRY	STRUCTUAL FILL	14/12/95	D422	
A-3		PI (A&G)	A&G P-1	STRUCTURAL FILL	17/04/96	ASTM D422	DR

NOTES: _____

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 12 month 94 year

SOURCE: Schleider MATERIAL TYPE: Lt. Tile SAMPLE NO.: ST-1 QA ID: Top

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)	1525 g	1520. °
WT. OF TARE	(grams)	220 g	220 g
WT. OF DRY SAMPLE	(grams)	1305 g	1300 g

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1/2"		0	0	100	Max 4"
3/8"		11.3	.9	99.1	
4		59.2	4.5	95.5	20-70 %
10		158.7	12.2	87.8	
40		882.5	67.6	32.4	5-35 %
100		1285.6	98.5	1.5	
200		1299.4	99.6	.4	0-7 %
P		1300.°			

* Fail on #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

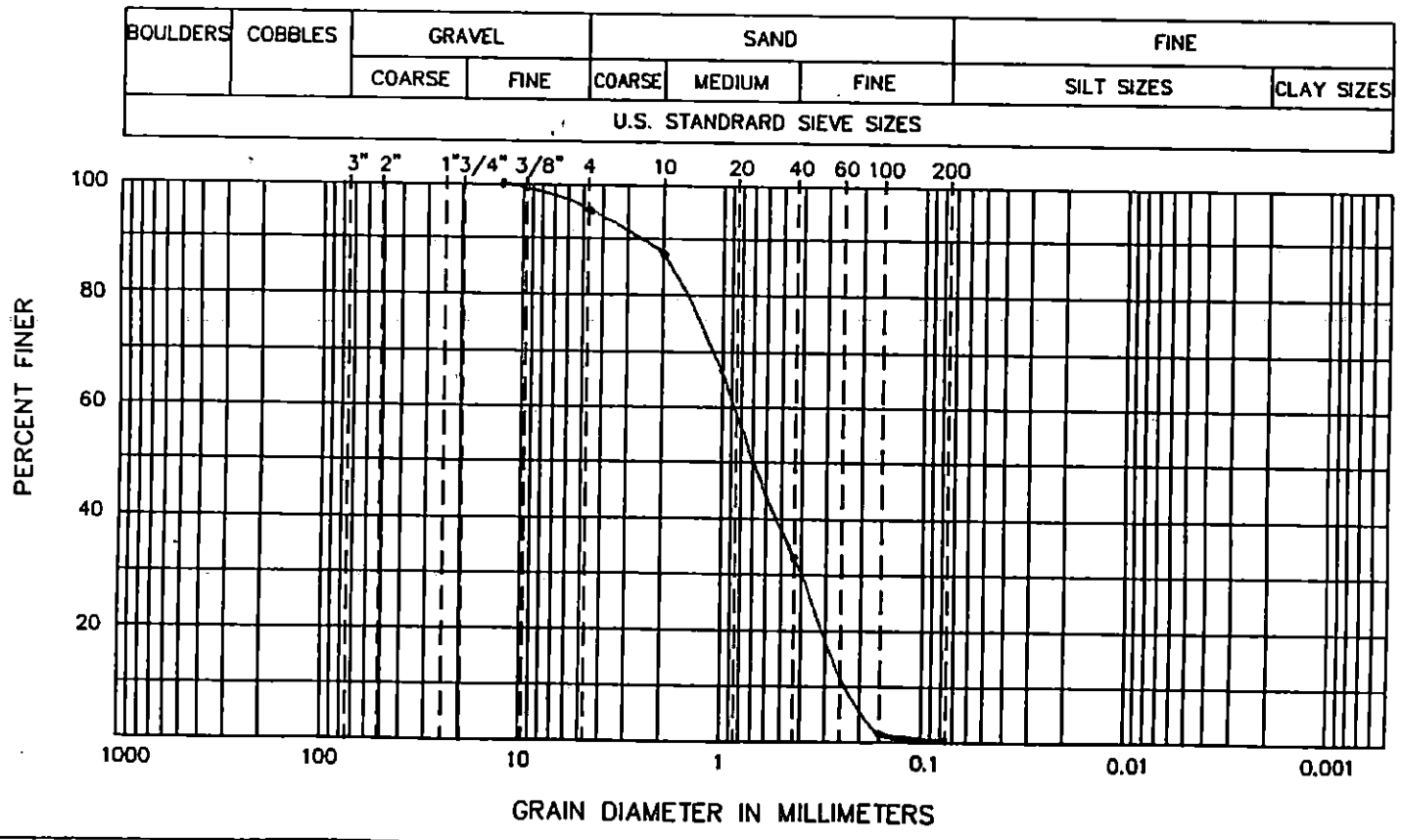
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

SOURCE: Schleider MATERIAL TYPE: Str. Fill

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 16 day 12 month 94 year

SAMPLE NO.: ST-9 QA ID: FF



CURVE COEFFICIENTS

(C_u) .87/.25 ≈ 4

(C_c) .16/.2175 ≈ .7

ATTERBERG LIMITS

(LL) NP

(PL)

(PI)

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	
1/2-in.	100
3/8-in.	99.1
NO. 4	95.5
NO. 10	87.8
NO. 20	
NO. 40	32.4
NO. 60	
NO. 100	1.5
NO. 200	.4

SOIL CLASSIFICATION (ASTM D 2487): SP Poorly graded sand

©GeoSyntec Consultants FILE NO. 2-16-PSD

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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: 17 day 04 month 95 year

SOURCE: A&6 P1 MATERIAL TYPE: STRUCTURAL FILL SAMPLE NO.: A-3 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)	1852.9	1828.8
WT. OF TARE	(grams)	57.0	57.0
WT. OF DRY SAMPLE	(grams)	1795.9	1771.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
4"	100.0	0	0	100.0	100%
1"	25.0	0	0	100.0	—
3/4"	19.0	0	0	100.0	—
4	4.750	1250.3	69.6%	30.4	20-70%
40	0.425	1622.9	90.4%	9.6	5-35%
200	0.075	1771.0	98.6%	1.4	0-7%

%FINER = 100 − Σ% RETAINED

SUB APPENDIX G–3

AGGREGATES AND TOP SOIL

GeoSyntec Consultants

TOWN OF HUNTINGTON

SOIL SAMPLE LOG

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 13 day 04 month 95 year

SITE SAMPLE NO.	OFF-SITE LAB SAMPLE NO.	SOIL DESCRIPTION	SOURCE (LOCATION, DEPTH, ELEVATION)	MATERIAL TYPE	DATE (day/mo)	TEST METHODS	QA ID
A-1		1" CRUSHED STONE	GOTHAM SAND & STONE	Crushed Stone	11/04	ASTM D 422	D/R
A-2	(WC-2)	1/2" GRIT	110 SAND & STONE	~~Pea Gravel~~ HEADER BEDDING	14/04	ASTM D 422	D/R
~~A-3~~		~~P1 (A&G)~~	~~A&G P1~~	STRUCTURAL FILL	17/04	ASTM D 422	D/R
A-4		P2 (A&G)	A&G P2	SCREEN GRAVEL	17/04	ASTM D 422	D/R
A-5		3/4 GRAVEL (110 SAND)	110 SAND	PEA GRAVEL	18/04	ASTM D 422	D/R
A-6		110 SAND 3/8" GRIT	110 SAND	HEADER BEDDING	25/04	ASTM D 422	D/R
A-7		R. SCHLEIDER RCA C-1	R. SCHLEIDER	CRUSHED STONE	26/04	ASTM D 422	D/R
A-4A		A&G P2	A&G P2	SCREENED GRAVEL	27/04	ASTM D 422	D/R
A-8		R. SCHLEIDER RCA	R. SCHLEIDER	CRUSHED STONE	04/05	ASTM D 422	D/R
A-9		R. SCHLEIDER SAND	R. SCHLEIDER	SAND	15/05	ASTM D 422	D/R
A-10		MT. HOPE ROCK CRUSHED STONE	MT. HOPE ROCK, ON-SITE STOCKPILE	CRUSHED STONE	25/05	ASTM D 422	D/R
A-11		ON SITE-KK	WEST SERVICE RD.	COMMON FILL	07/06	ASTM D 422, 2487	D/R
A-12		TOP SOIL	R. SCHLEIDER	TOP SOIL	08/09	ASTM D 422	D/R
A-13		TOP SOIL	R. SCHLEIDER	TOP SOIL	11/09	ASTM D 422	D/R
A-14		TOP SOIL	R. SCHLEIDER	TOP SOIL	15/09	ASTM D 422	D/R

NOTES:

GeoSyntec Consultants

TOWN OF HUNTINGTON

SOIL SAMPLE LOG

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

SITE SAMPLE NO.	OFF-SITE LAB SAMPLE NO.	SOIL DESCRIPTION	SOURCE (LOCATION, DEPTH, ELEVATION)	MATERIAL TYPE	DATE (day/mo)	TEST METHODS	QA ID
A-15		RCA	R. SCHLEIDER	RCA	28/09	ASTM D 422	DAR
A-16		Topsoil	R. SCHLEIDER	Topsoil	28/09	ASTM D422	DAR

NOTES:

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 04 month 95 year

SOURCE: GOTHAM S & S GOTHAM 1" MATERIAL TYPE: 1" CRUSHED STONE SAMPLE NO.: A-1 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)	1514.3	1508.8
WT. OF TARE	(grams)	57.1	56.5
WT. OF DRY SAMPLE	(grams)	1457.2	1452.3

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1 1/2	37.5	0.0	0.0	100.0%	100.0%
1"	25.0	0.0	0.0	100.0%	90-100%
3/4"	19.0	595.8	40.9	59.1%	—
1/2"	12.5	1292.5	88.7	11.3%	0-15.0%
3/8"	9.5	1396.1	95.8	4.2%	—

%FINER = 100 − Σ% RETAINED

GEOSYNTEC CONSULTANTS FILE NO. 2-14-PMS

SHEET NO. 1 OF 1

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 04 month 95 year

SOURCE: 1/2" GRIT 110 SAND MATERIAL TYPE: HEADER BEDDING SAMPLE NO.: A-2 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)	1829.9	1818.0
WT. OF TARE	(grams)	57.6	57.6
WT. OF DRY SAMPLE	(grams)	1772.3	1760.4

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0	0	100.0	
3/4"	19.0	0	0	100.0	
1/2"	12.5	96.3	5.4%	94.6	< 1/2"
3/8"	9.5	685.8	38.7%	61.3	
4	4.750	1654.6	93.4%	6.6	
8	2.360	1742.9	98.3%	1.7	
16	1.180	1744.8	98.4%	1.6	
60	0.250	1751.9	98.8%	1.2	
200	0.075	1758.4	99.2%	0.8%	

%FINER = 100 − Σ% RETAINED

GEO SYNTEC CONSULTANTS FILE NO. 2-14-PMS

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 04 month 95 year

SOURCE: AEG P2 MATERIAL TYPE: SCREEN GRAVEL SAMPLE NO.: A-4 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)	1827.8	1817.1
WT. OF TARE	(grams)	59.9	59.9
WT. OF DRY SAMPLE	(grams)	1767.9	1757.2

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
5/8"		0	0	100.0	100
1/2"	12.5	105.6	6.0	94.0	40-100
3/8"	9.5	733.7	41.5%	*58.5	15-45
10	2.0	1739.6	98.4	1.6	0-5

* SAMPLE PASSED PER S. BRIT ALTHOUGH 58.5% PASSED 3/8" SIEVE

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants FILE NO. 2-14-PWS

SHEET NO. 1 OF 1

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 04 month 95 year

SOURCE: A+G P2 MATERIAL TYPE: WC-2 Screened Gravel SAMPLE NO.: A-4A 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)	2056.1	
WT. OF TARE	(grams)	59.5	
WT. OF DRY SAMPLE	(grams)	1996.6	

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
5/8"	16.0	0.0	0.0	100.0	
1/2"	12.5	129.0	6.5	93.5	
3/8"	9.5	860.6	43.1	56.9	
4	4.750	1918.5	96.1	3.9	
8	2.360	1948.1	97.6	2.4	
40	0.425	1971.8	98.8	1.2	
200	0.075	1986.8	99.5	0.5	

%FINER = 100 − Σ% RETAINED

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 04 month 95 year

SOURCE: 110 SAND 3/4" GRAVEL MATERIAL TYPE: PEA GRAVEL SAMPLE NO.: A-5 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)	2042.0	2022.7
WT. OF TARE	(grams)	56.9	56.9
WT. OF DRY SAMPLE	(grams)	1985.1	1965.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0	0	100.0	100.0 %
1 1/2"	37.5	0	0	100.0	—
1"	25.0	0	0	100.0	99.2 %
3/4"	19.0	337.9	17.0	83.0	—
1/2"	12.5	944.8	47.6	*52.4	30.3 %
3/8	9.5	1554.1	78.3	21.7	—

* SAMPLE PASSED PER S. BRIX ALTHOUGH MATERIAL PASSING THE 1/2" SIEVE WAS 52.4 %

S. BRIX GAVE VERBAL OK IN THE PRESENCE OF DAVE ROBERT.

%FINER = 100 − Σ% RETAINED

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 04 month 95 year

SOURCE: 110 SAND MATERIAL TYPE: HEADER BEDDING SAMPLE NO.: A-6 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)	2027.9	
WT. OF TARE	(grams)	58.3	
WT. OF DRY SAMPLE	(grams)	1969.6	

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
3/4"	19.0	0.0	0.0%	100.0%	
1/2"	12.5	0.0	0.0%	100.0%	< 1/3"
3/8"	9.5	2.9	0.1%	99.9%	
4	4.75	1440.2	73.1%	26.9%	
8	2.36	1929.8	98.0%	2.0%	
16	1.18	1947.3	98.9%	1.1%	
60	0.250	1959.4	99.5%	0.5%	
200	0.075	1967.7	99.9%	0.1%	

%FINER = 100 − Σ% RETAINED

GEO SYNTEC CONSULTANTS FILE NO. 2-14-PWS

SHEET NO 1 OF 1

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 04 month 95 year
SOURCE: R. SCHLEIDER RCA MATERIAL TYPE: CRUSHED STONE SAMPLE NO.: A-7 QA ID: DTR

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)	2930.0	
WT. OF TARE	(grams)	448.4	
WT. OF DRY SAMPLE	(grams)	2481.6	

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0%	
1 1/2"	37.5	0.0	0.0	100.0%	
1"	25.0	356.5	14.4	85.6%	
3/4"	19.0	790.6	31.9	68.1%	
1/2"	12.5	1028.8	41.5	58.5%	
3/8"	9.5	1162.7	46.9	53.1%	
4	4.750	1433.1	57.7	42.3%	
10	2.0	1681.7	67.8	32.2%	
20	0.850	1926.4	77.6	22.4%	
40	0.425	2174.5	87.6	12.4%	
60	0.250	2309.7	93.1	6.9%	
100	0.150	2326.6	93.8	6.2%	
200	0.075	2453.3	98.9	1.1%	

%FINER = 100 − Σ% RETAINED

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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: 04 day 05 month 95 year

SOURCE: R. SCHLEIDER RCA "RESUBMIT" MATERIAL TYPE: CRUSHED STONE SAMPLE NO.: A-8 QA ID: 7/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)	3632.0	
WT. OF TARE	(grams)	446.8	
WT. OF DRY SAMPLE	(grams)	3185.2	

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0 %	
1 1/2"	37.5	0.0	0.0	100.0 %	100.0 %
1"	25.0	224.6	7.1	92.9 %	90-100 %
3/4"	19.0	760.4	23.9	76.1 %	
1/2"	12.5	1690.9	53.1	46.9 %	0-15 %
3/8"	9.5	2372.6	74.5	25.5 %	
4	4.75	2936.0	92.0	8.0 %	
10	2.0	2964.2	93.1	6.9 %	
20	0.850	2979.6	93.5	6.5 %	
40	0.425	3021.3	94.9	5.1 %	
60	0.250	3072.3	96.5	3.5 %	
100	0.150	3113.2	97.7	2.3 %	
200	0.075	3145.5	98.8	1.2 %	

%FINER = 100 − Σ% RETAINED

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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: GO3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 15 day 05 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: SAND SAMPLE NO.: A-9 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)	2606.1	2454.8
WT. OF TARE	(grams)	192.8	56.9
WT. OF DRY SAMPLE	(grams)	2413.3	2397.9

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1/2"	12.5	0.0	0.0	100.0	
3/8"	9.5	3.5	0.1	99.9	
4	4.75	57.8	2.4	*97.6	100 %
8	2.36	132.2	5.5	94.5	
10	2.00	157.4	6.5	93.5	
16	1.18	306.4	12.7	87.3	
20	0.850	518.1	21.5	78.5	
40	0.425	1639.9	68.0	32.0	
60	0.250	2253.5	93.4	6.6	
80	0.180	2356.5	97.6	2.4	
100	0.150	2378.6	98.6	1.4	10 %
200	0.075	2389.8	99.0	1.0	5 %

*NOTE: DISCUSSED ABOVE RESULT WITH S. BRIX & KEN CARGILL & MATERIAL WAS DEEMED ACCEPTABLE FOR INTENDED USE ALTHOUGH 97.6 % PASSED NO. 4 SIEVE WE PROCEED TO 100 %

%FINER = 100 − Σ % RETAINED

GeoSyntec Consultants FILE NO. 2-14-PWS

SHEET NO. 1 OF 1

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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 05 month 95 year

SOURCE: Mt. Hope Rock MATERIAL TYPE: Crushed Stone SAMPLE NO.: A-10 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)	2608.6	
WT. OF TARE	(grams)	59.5	
WT. OF DRY SAMPLE	(grams)	2549.1	

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1½"	37.5	0.0	0.0	100.0	100.0
1"	25.0	0.0	0.0	100.0	90.0 - 100.0
¾"	19.0	759.2	29.8	70.2	—
½"	12.5	2387.4	93.7	6.3	0.0 - 15.0
⅜"	9.5	2506.3	98.3	1.7	—

%FINER = 100 − Σ% RETAINED

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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: 07 day 06 month 95 year

SOURCE: ON SITE - WEST SERVICE RD. MATERIAL TYPE: COMMON FILL SAMPLE NO.: A-11 QA ID: 217

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)	2504.0	2415.0
WT. OF TARE	(grams)	19.7	18.0
WT. OF DRY SAMPLE	(grams)	2484.3	2397.0

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1 1/2	37.5	0.0	0.0	100.0	(10" MAX)
1	25.0	56.4	2.3	97.7	
3/4	19.0	109.1	4.4	95.6	
1/2	12.5	236.4	9.5	90.5	
3/8	9.5	326.6	13.1	86.9	
4	4.75	558.3	22.5	77.5	
10	2.0	843.8	34.0	66.0	
20	0.850	1186.1	47.7	52.3	
40	0.425	1839.6	74.0	26.0	≤ 75 %
60	0.250	2270.6	91.4	8.6	
100	0.150	2374.8	95.6	4.4	
200	0.075	2395.8	96.4	3.6	≤ 20 %

%FINER = 100 − Σ% RETAINED

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TOWN OF HUNTINGTON

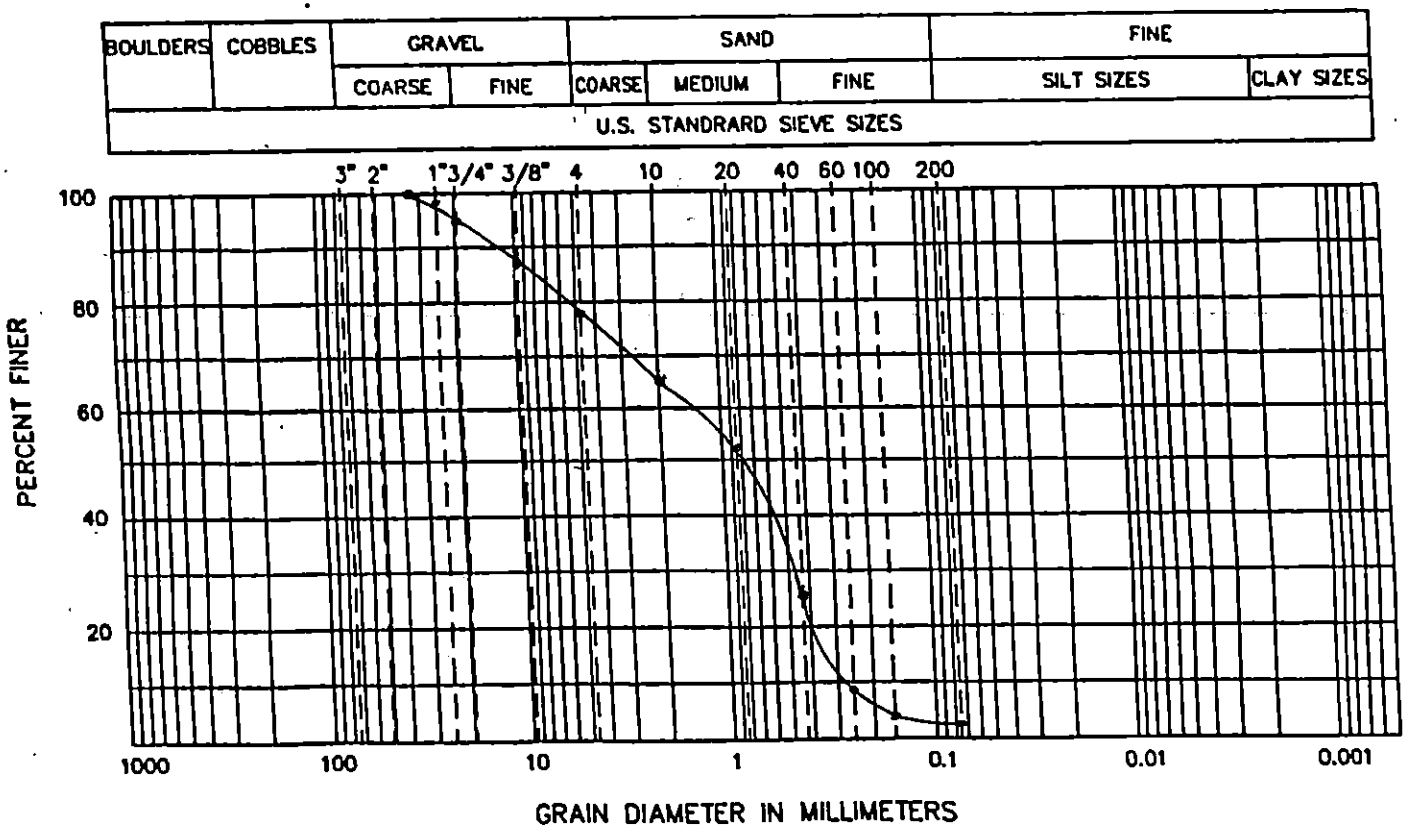
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: R. SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: A-11 QA ID: 24R



CURVE COEFFICIENTS

(C_u) 4.3

(C_c) 0.7

ATTERBERG LIMITS

(LL)

(PL)

(PI)

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	100.0
1-in.	97.7
3/4-in.	95.6
1/2-in.	90.5
3/8-in.	86.9
NO. 4	77.5
NO. 10	66.0
NO. 20	52.3
NO. 40	26.0
NO. 60	8.6
NO. 100	4.4
NO. 200	3.6

SOIL CLASSIFICATION (ASTM D 2487): SP - POORLY GRADED 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: 08 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: TOPSOIL SAMPLE NO.: A-12 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)	1918.1	1376.9
WT. OF TARE	(grams)	17.4	33.8
WT. OF DRY SAMPLE	(grams)	1900.7	1343.1

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
3/4"		0.0	0.0	100.0%	—
1/2"		55.7	2.9	97.1%	—
3/8"		81.5	4.3	95.7%	—
4		213.7	11.2	88.8%	91.0%
10		365.3	19.2	80.8%	—
20		560.7	29.5	70.5%	—
40		885.5	46.6	53.4%	—
60		1152.6	60.6	39.4%	—
100		1291.8	68.0	32.0%	39.0%
200		1343.1	70.7	29.3%	34.0%

%FINER = 100 − Σ% RETAINED

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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: TOP SOIL SAMPLE NO.: A-13 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)	1702.3	1171.6
WT. OF TARE	(grams)	16.9	16.1
WT. OF DRY SAMPLE	(grams)	1685.4	1155.5

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	3.9	0.2	99.8	
3/8"	9.5	14.8	0.9	99.1	
4	4.75	135.3	8.0	92.0	
10	2.0	353.1	17.6	82.4	
20	0.850	561.3	33.3	66.7	
40	0.425	904.9	53.7	46.3	
60	0.250	1054.7	62.6	37.4	
100	0.150	1123.9	66.7	33.3	
200	0.075	1155.4	68.6	31.4	

%FINER = 100 − Σ% RETAINED

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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: 15 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: TOPSOIL SAMPLE NO.: A-14 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)	1495.5	1078.0
WT. OF TARE	(grams)	16.8	16.9
WT. OF DRY SAMPLE	(grams)	1478.7	1061.1

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	100.0%
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	7.9	0.5	99.5	
3/8"	9.5	27.3	1.8	98.2	
4	4.75	140.8	9.5	90.5	91.0%
10	2.0	291.7	19.7	80.3	
20	0.850	454.6	30.7	69.3	
40	0.425	707.7	47.9	52.1	
60	0.250	906.4	61.3	38.7	
100	0.150	1006.9	68.1	31.9	39.0%
200	0.075	1060.4	71.7	28.3	34.0%

%FINER = 100 − Σ% RETAINED

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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: 28 day 09 month 95 year

SOURCE: R. SCHNEIDER MATERIAL TYPE: RCA SAMPLE NO.: A-15 QA ID: DAT

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)	1902.5	1814.6
WT. OF TARE	(grams)	16.8	17.9
WT. OF DRY SAMPLE	(grams)	1885.7	1796.7

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1½"	37.0	0.0	0.0	100.0	
1"	25.0	28.0	1.5	98.5	
¾"	19.0	290.7	15.4	84.6	
½"	12.5	682.5	36.2	63.8	
⅜"	9.5	826.3	43.8	56.2	
4	4.75	1090.5	57.8	42.2	
10	2.0	1279.4	67.8	32.2	
20	0.850	1447.2	76.7	23.3	
40	0.425	1623.0	86.1	13.9	
60	0.250	1724.6	91.5	8.5	
100	0.150	1771.8	94.0	6.0	
200	0.075	1796.3	95.3	4.7	

%FINER = 100 − Σ% RETAINED

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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: 17 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: TOPSOIL SAMPLE NO.: A-16 QA ID: >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)	1157.6	904.8
WT. OF TARE	(grams)	16.0	16.0
WT. OF DRY SAMPLE	(grams)	1141.6	888.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	100.0%
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	13.8	1.2	98.8	
3/8"	9.5	35.2	3.1	96.9	
4	4.75	113.6	10.0	90.0	91.0%
10	2.0	215.9	18.9	81.1	
20	0.850	348.5	30.5	69.5	
40	0.425	565.4	49.5	50.5	
60	0.250	739.9	64.8	35.2	
100	0.150	838.4	73.4	26.6	39.0%
200	0.075	888.6	77.9	22.1	34.0%

%FINER = 100 − Σ% RETAINED

APPENDIX H

COMMON FILL

SUB APPENDIX H–1

SOIL SAMPLE LOG

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TOWN OF HUNTINGTON

SOIL SAMPLE LOG FOR COMMON FILL

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: ____ day ____ month ____ year

SITE SAMPLE NO.	OFF-SITE LAB SAMPLE NO.	SOIL DESCRIPTION	SOURCE (LOCATION, DEPTH, ELEVATION)	MATERIAL TYPE	DATE (day/mo)	TEST METHODS	QA ID
C-1	17/11	BR. SILTY SAND	R. SCHLEIDER YARD STOCKPILE	COMMON FILL	17/11	ASTM D422 & D1557	
C-2		Silty Sand, Brown	Syosset on site Stock Pile	Common Fill	12/13	ASTM D422 D1557	
ST-1		Well gr. sand	Schleidler quarry	str. fill	14/12	D 422 D1557	
C-3*		silty sn. w/ gravel	Schleider quarry	common fill	16/12	D422 D1557	
C-4		SILTY SAND, BROWN	SYOSSET/JERICHO ON-SITE - STOCKPILE	COMMON FILL	27/12	D422 D 1557	
C-5		SILTY SAND W/GRAVEL	SCHLEIDER QUARRY	COMMON FILL	29/12	D422 D1557	
C-6		BROWN SILTY SAND	SCHLEIDER STOCKPILE	COMMON FILL	9/1	D422 D 1557	
C-7		BROWN SILTY SAND	SCHLEIDER STOCKPILE	COMMON FILL	16/1	D422 D 1557	

NOTES: * SAMPLE C-3 DISCARDED (NO RECORD?).

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

SOIL SAMPLE LOG FOR COMMON FILL

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SITE SAMPLE NO.	OFF-SITE LAB SAMPLE NO.	SOIL DESCRIPTION	SOURCE (LOCATION, DEPTH, ELEVATION)	MATERIAL TYPE	DATE (day/mo)	TEST METHODS	QA ID
C-8		BR. SILTY SAND	R. SCHLEIDER YARD STOCKPILE	COMMON FILL	23/1	ASTM D422 & D1557	
C-9		BR. SILTY SAND	R. SCHLEIDER YARD STOCKPILE	COMMON FILL	24/1	ASTM D422 & D1557	
C-6A		BR. SILTY SAND	"	"	26/1	ASTM D3080	
C-10		BR. SILTY SAND	IN-SITU (TEST PAD) E6950 & N8330, 0"-7"	"	26/1	ASTM D3080	
C-11		BR. SILTY SAND	DUMP TRUCK LOAD DELIVERED ON TOP LANDFILL	"	31/1	ASTM D422 & D1557 D3080	
C-12		BR. SILTY SAND	R. SCHLEIDER YARD STOCKPILE	"	31/1	ASTM D422 & D1557 D3080	
C-13		BR. SILTY SAND	R. SCHLEIDER YARD STOCKPILE	"	1/2	ASTM D422 & D1557	
C-14		BR. SILTY SAND	R. SCHLEIDER YARD STOCKPILE	"	6/2	ASTM D422, D1557 D3080 & D3080	
C-15		BR. SILTY SAND	R. SCHLEIDER YARD STOCKPILE	"	15/2	ASTM D422, D1557 & D3080	
C-16		BR. SILTY SAND	R. SCHLEIDER YARD STOCKPILE	"	20/2	ASTM D 422, 1557, 3080	JJC
C-17		BR. SILTY SAND	R. SCHLEIDER YARD STOCKPILE	"	23/2	ASTM D 422, 1557, & 3080	JJC
C-18		BR. SILTY SAND	R. SCHLEIDER YARD STOCKPILE	"	3/3	ASTM D 422, 1557, & 3080	
C-19		BR. SILTY SAND	R. SCHLEIDER YARD STOCKPILE	"	10/3	ASTM D422, 1557, & 3080	
C-20		Br. Silty Sand	R. Schleider Yard Stockpile	Common Fill	15/3	ASTM D422, 1557, & 3080	GD

NOTES: _____

GeoSyntec Consultants

TOWN OF HUNTINGTON

SOIL SAMPLE LOG

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: ____ day ____ month ____ year

SITE SAMPLE NO.	OFF-SITE LAB SAMPLE NO.	SOIL DESCRIPTION	SOURCE (LOCATION, DEPTH, ELEVATION)	MATERIAL TYPE	DATE (day/mo)	TEST METHODS	QA ID
C-21		Brown Silty Sand	Syosset on site stockpile	Common Fill	17/3	D422, 2487	GD
C-22		Br. Silty Sand	IN-SITU – WEST SLOPE (LOWER) BETWEEN SECTION LINES 4 & 4A	common fill	5/4	ASTM D 5721	
C-23		Br. Silty Sand	R. SCHLEIDER STOCK PILE	Common Fill	10/4	ASTM 3080 D422, 1557, 2487	D.J.R
C-24		Brown Silty Sand	R SCHLEIDER STOCKPILE	Common Fill	14/4	ASTM 3080 D422, 1557, 2487	D.J.R
C-25		Brown Silty Sand	R. SCHLEIDER YARD STOCKPILE	Common Fill	09/05	ASTM 3080 D 422, 1557, 2487	D/R

NOTES: _____

SUB APPENDIX H–2

LABORATORY TEST RESULTS

GeoSyntec Consultants

TOWN OF HUNTINGTON

LABORATORY TEST SUMMARY FOR COMMON FILL

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 94 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: COMMON FILL QA ID: A

NOTE: Separate forms are required for each material type and source. All samples must have a site sample number and be recorded on the soil sample log.

SITE SAMPLE NO.	GEL SAMPLE NO.	SAMPLE MOISTURE CONTENT ASTM D 2216 (%)	GRAIN SIZE: PASSING NO. 200 SIEVE ASTM D 1140 (%)	GRAIN SIZE: ASTM D 422 SIEVE	GRAIN SIZE: ASTM D 422 HYDR.	ATTERBURG LIMITS ASTM D 4318: LL (%)	ATTERBURG LIMITS ASTM D 4318: PL (%)	ATTERBURG LIMITS ASTM D 4318: PI	SOIL CLASSIFICATION ASTM D 2487	DIRECT SHEAR ASTM D3080 °(deg)	INTERF FRICT. ANGLE ASTM D5321 °(deg)	COMPACTION ASTM D 698 (or) ASTM D 1557: MAX. DRY UNIT WT. (pcf)	COMPACTION ASTM D 698 (or) ASTM D 1557: OPT. MOIST. CONT. (%)	PERMEABILITY ASTM D 2434(1) (or) ASTM D 5084(2): DRY UNIT WT. (pcf)	PERMEABILITY ASTM D 2434(1) (or) ASTM D 5084(2): MOIST. CONT. ASTM D 2216 (%)	PERMEABILITY ASTM D 2434(1) (or) ASTM D 5084(2): HYDRAULIC COND'VITY (cm/sec)	PASS/ FAIL	ACUMUL. QUANT. PLACED (APPROX) (yd³)
C-1	—			✓								116.0	11.3				P	
C-2	—			✓													P	
C-3	DISCARDED																	
C-4				✓								128.6	8.3				P	
C-5				✓								130.3	8.5				P	
C-6				✓								131.9	7.1				P	
C-6A				✓						48.4°							P	
C-7				✓								127.8	7.5				P	
C-8				✓								126.5	9.9				P	
C-9				✓								125.5	7.6				P	

COMMENTS:

NOTES: (1) HYDRAULIC CONDUCTIVITY DETERMINED AT A HYDRAULIC GRADIENT OF ____.

(2) HYDRAULIC CONDUCTIVITY DETERMINED AT AN EFFECTIVE CONFINING STRESS OF ____.

GeoSyntec Consultants

TOWN OF HUNTINGTON

LABORATORY TEST SUMMARY For Common Fill

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 2 day 1 month 95 year

SOURCE: R. Schleider MATERIAL TYPE: Common Fill QA ID: GD

NOTE: Separate forms are required for each material type and source. All samples must have a site sample number and be recorded on the soil sample log.

SITE SAMPLE NO.	GEL SAMPLE NO.	SAMPLE MOISTURE CONTENT ASTM D 2216 (%)	GRAIN SIZE			ATTERBURG LIMITS ASTM D 4318			SOIL CLASSIFICATION ASTM D 2487	DIRECT SHEAR	INTERF FRICT. ANGLE	COMPACTION ASTM D 698 (or) ASTM D 1557		PERMEABILITY ASTM D 2434[1] (or) ASTM D 5084[2]			PASS/ FAIL	ACUMUL. QUANT. PLACED (APPROX)
			PASSING NO. 200 SIEVE ASTM D 1140 (%)	ASTM D 422 SIEVE	ASTM D 422 HYDR.	LL (%)	PL (%)	PI		ASTM D3080 °(deg)	ASTM D5321 °(deg)	MAX. DRY UNIT WT. (pcf)	OPT. MOIST. CONT. (%)	DRY UNIT WT. (pcf)	MOIST. CONT. ASTM D 2216 (%)	HYDRAULIC COND'VITY (cm/sec)		(yd^3)
C-10										45.6								
C-11				✓						36.8		125.7	8.2					
C-12				✓						45.6		128.4	8.2					
C-13				✓						34.4		128.4	7.4					
C-14				✓						40.8		127.6	8.4					
C-15				✓						46.1		129.1	8.0					
C-16				✓					SW-SM	37.2		123.0	9.0					
C-17				✓					SM	42.2		130.3	8.7					
C-18				✓					SW-SM	41.3		128.5	8.2					
C-19				✓					SW-SM	41.3		128.7	7.7					

COMMENTS:

NOTES: (1) HYDRAULIC CONDUCTIVITY DETERMINED AT A HYDRAULIC GRADIENT OF ____.

(2) HYDRAULIC CONDUCTIVITY DETERMINED AT AN EFFECTIVE CONFINING STRESS OF ____.

GeoSyntec Consultants

TOWN OF HUNTINGTON

LABORATORY TEST SUMMARY For Common Fill

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 3 day 2 month 96 year

SOURCE: MATERIAL TYPE: Common Fill QA ID: GD

NOTE: Separate forms are required for each material type and source. All samples must have a site sample number and be recorded on the soil sample log.

SITE SAMPLE NO.	GEL SAMPLE NO.	SAMPLE MOISTURE CONTENT ASTM D 2216 (%)	GRAIN SIZE			ATTERBURG LIMITS ASTM D 4318			SOIL CLASSIFICATION ASTM D 2487	DIRECT SHEAR	INTERF FRICT. ANGLE	COMPACTION ASTM D 698 (or) ASTM D 1557		PERMEABILITY ASTM D 2434[1] (or) ASTM D 5084[2]			PASS/ FAIL	ACUMUL. QUANT. PLACED (APPROX)	
			PASSING NO. 200 SIEVE ASTM D 1140 (%)	ASTM D 422 SIEVE	ASTM D 422 HYDR.	LL (%)	PL (%)	PI		ASTM D3080 °(deg)	ASTM D5321 °(deg)	MAX. DRY UNIT WT. (pcf)	OPT. MOIST. CONT. (%)	DRY UNIT WT. (pcf)	MOIST. CONT. ASTM D 2216 (%)	HYDRAULIC COND'VITY (cm/sec)			
C-20				✓					SW-SM	46.5°		128.7	7.7						
C-21				✓					SM			131.0	8.2						
C-22		(W/GN-1)		✓					SM		34°								
C-23				✓					SM	42.0°		124.0	8.6						4/11
C-24				✓					SP-SM	43.5°		124.9	8.9						4/14
C-25				✓					SP-SM	50.0		133.1	7.3						5/9

COMMENTS:

NOTES: (1) HYDRAULIC CONDUCTIVITY DETERMINED AT A HYDRAULIC GRADIENT OF ____.

(2) HYDRAULIC CONDUCTIVITY DETERMINED AT AN EFFECTIVE CONFINING STRESS OF ____.

SLACKE TEST BORING, INC.

Subsurface Soils & Foundation Explorations

ONE VILLAGE PLAZA, P.O. BOX 64, KINGS PARK, NEW YORK 11754 • (516) 544-0404 • FAX 269-5334

November 22, 1994

Mr. Steve Barrett
Site CQA Manager - Field Services
GeoSyntec Consultants
Town of Huntington Resource Recovery
Town Line Road
Town of Huntington, New York 11743

RE: Huntington Landfill/Sample pu 11/17/94

SIEVE SIZE	A.S.T.M. C-136	PERCENT PASSING	COMMON FILL SPECIFICATIONS *C-1
4		67.3	
20		49.3	
40		26.1	Max 75
60		8.9	
200		2.0	Max 20
MAXIMUM DENSITY		115.0#/cu ft.	A.S.T.M. D-1557
OPTIMUM MOISTURE		11.3%	

SIEVE SIZE	A.S.T.M. C-136	PERCENT PASSING	SELECT FILL SPECIFICATIONS *S-1
3/8		98.2	100
4		92.9	80-95
40		36.7	25-45
100		3.7*	5-15
200		1.9	0-8
MAXIMUM DENSITY		124.9#/cu ft.	A.S.T.M. D-1557
OPTIMUM MOISTURE		9.2%	

*NOTE - Revised 12/8/94

Respectfully submitted,
SLACKE TEST BORING, INC.

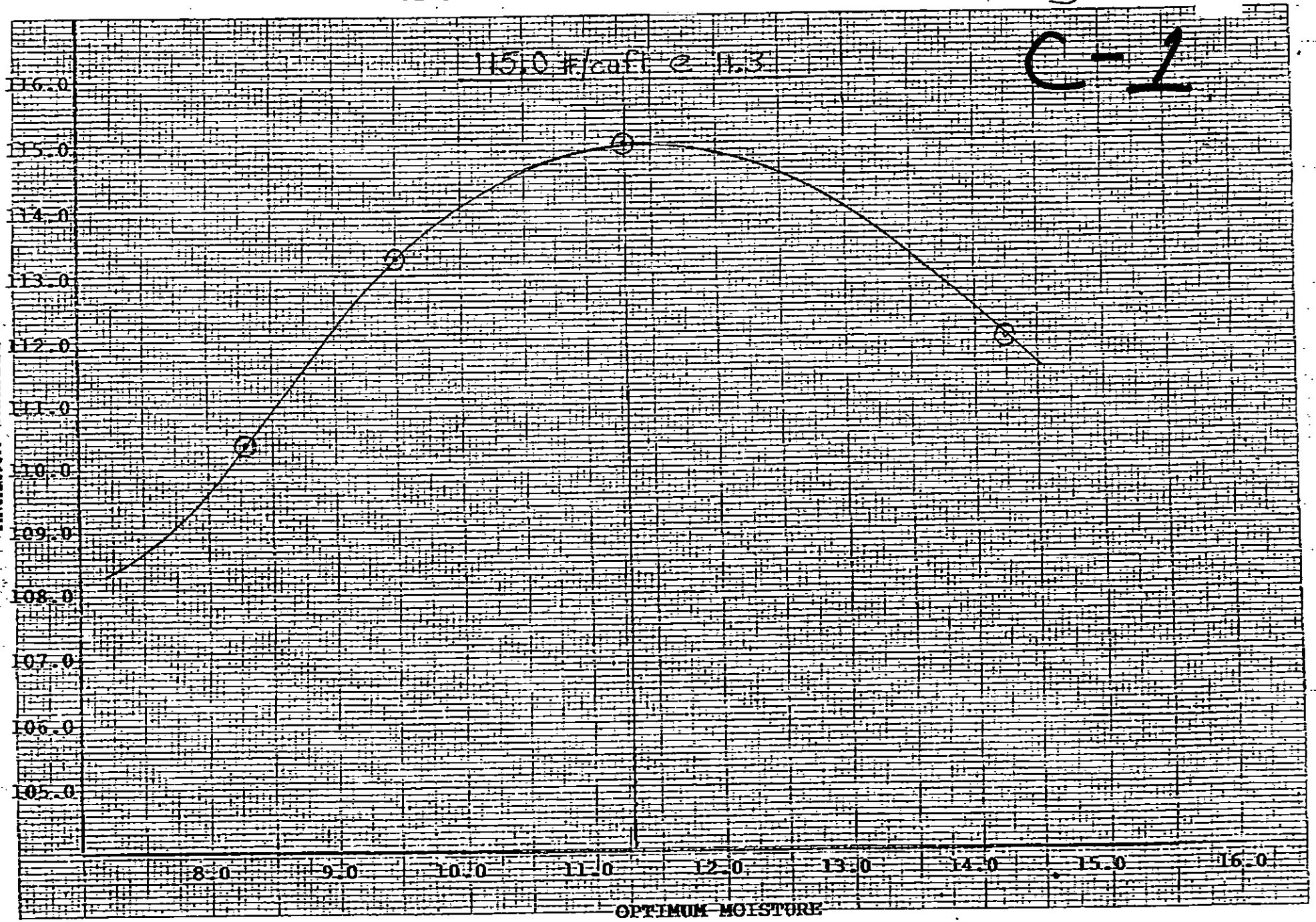
Sally Ann Slacke

Sally Ann Slacke, President

1 of 2

S-5

C-1


115.0 #/cuft @ 11.3
116.0
115.0
114.0
113.0
112.0
111.0
110.0
109.0
108.0
107.0
106.0
105.0
MAXIMUM DENSITY
8.0
9.0
10.0
11.0
12.0
13.0
14.0
15.0
16.0
OPTIMUM MOISTURE

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 12 month 94 year

SOURCE: Lyossett MATERIAL TYPE: Con. Fill SAMPLE NO.: C-2 QA ID: Zox

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)	2205	1833
WT. OF TARE	(grams)	320	320
WT. OF DRY SAMPLE	(grams)	1885	1513

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1.5"		0	0	100	10" Max
1"		27.7	1.5	98.5	
.5"		199.1	10.6	89.4	
3/8"		271.0	14.4	85.6	
4		411.5	21.8	78.2	
10		561.6	29.8	70.2	
40		998.5	53.0	47.0	Max. 75%
100		1370.6	72.7	27.3	
200		1512.6	80.2	19.8	Max. 20%
P		1513.0			

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

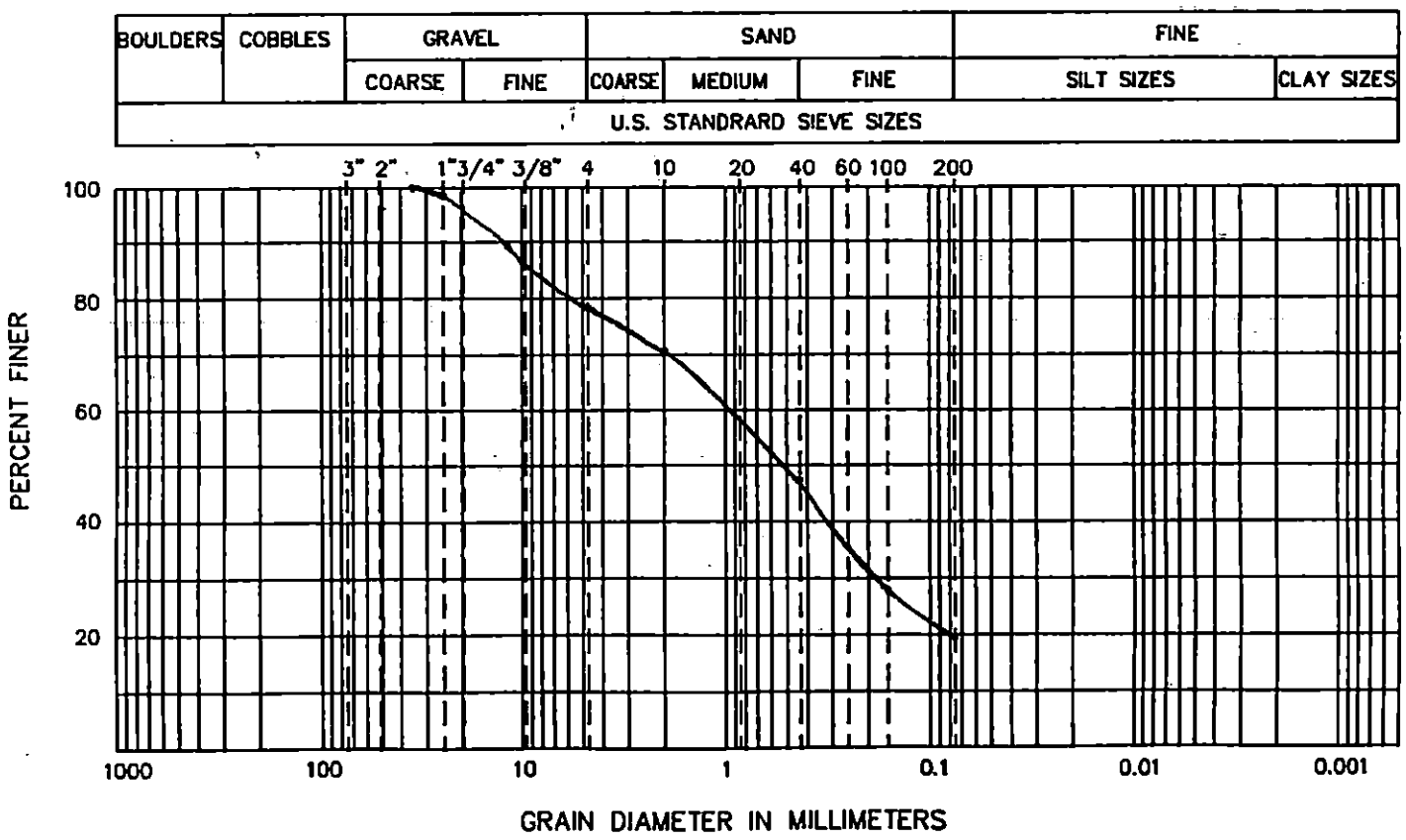
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 16 day 12 month 94 year

SOURCE: Syosset MATERIAL TYPE: Common Fill SAMPLE NO.: C-2 QA ID: Fox



CURVE COEFFICIENTS

(C_u) ..... NA .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) ..... NP .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	100
1-in.	98.5
3/4-in.	
1/2-in.	89.4
3/8-in.	85.6
NO. 4	78.2
NO. 10	70.2
NO. 20	
NO. 40	47.0
NO. 60	
NO. 100	27.3
NO. 200	19.8

SOIL CLASSIFICATION (ASTM D 2487): SM ?

SLACKE TEST BORING, INC.

Subsurface Soils & Foundation Explorations

65 RUMFORD ROAD, P.O. BOX 64, KINGS PARK, NEW YORK 11754 • (516) 265-1666 • FAX 265-5443

December 27, 1994

Mr. Steve Barrett
Site CQA Manager - Field Services
GeoSyntec Consultants
Town of Huntington Resource Recovery
Town Line Road
Town of Huntington, New York 11743

RE: Huntington Landfill/Sample pu 12/27/94 - Sample #C4

SIEVE SIZE	PERCENT PASSING	COMMON FILL SPECIFICATIONS
4"	100.0	N/A
4	81.8	N/A
40	38.3	Max 75
200	9.9	Max 20%

MAXIMUM DENSITY - 128.6#/cu ft

OPTIMUM MOISTURE - 8.3%

Testing done in Accordance with Method C ASTM 1557, ASTM C-136

Respectfully submitted,

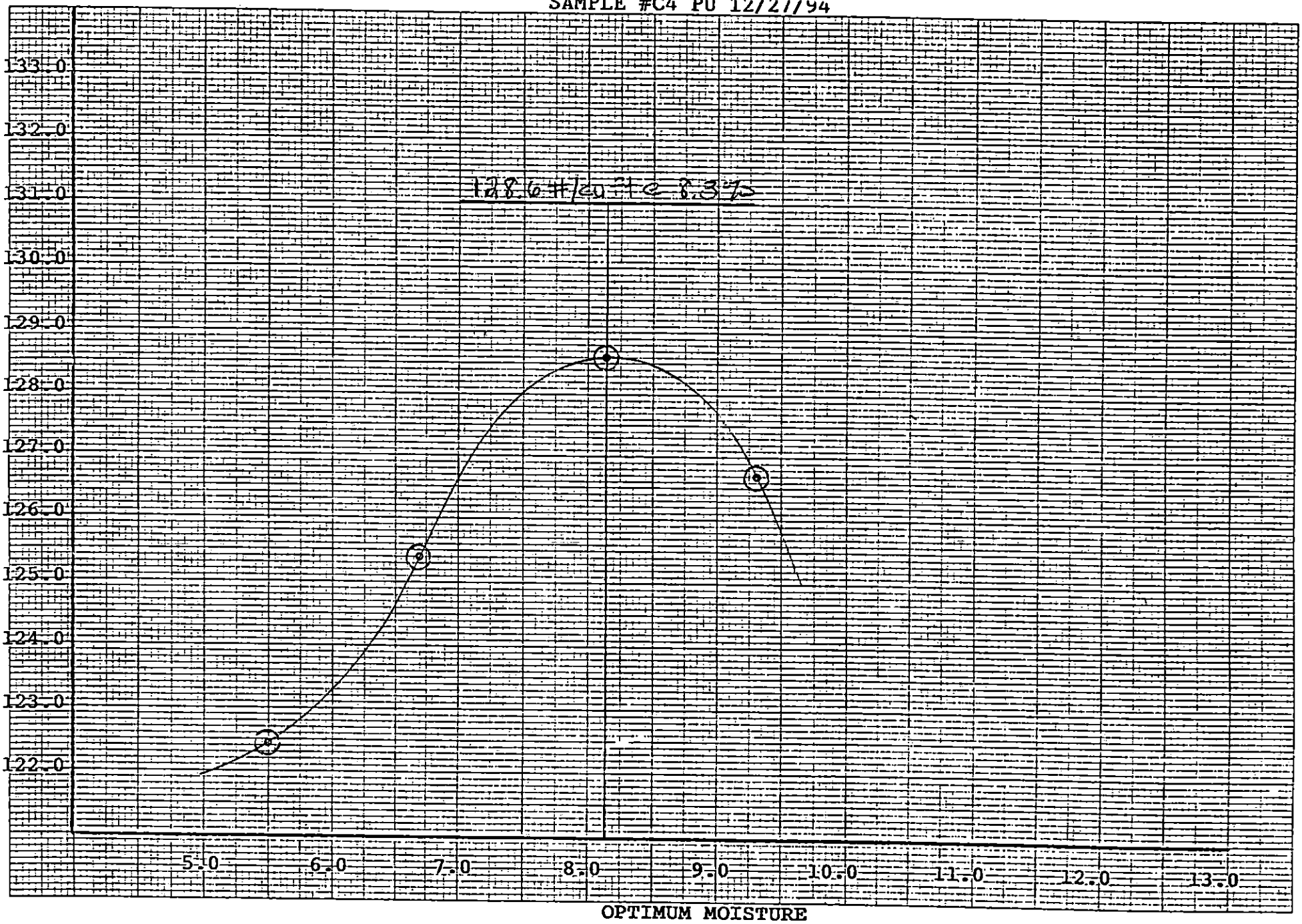
SLACKE TEST BORING, INC.

Sally Ann Slacke
President

SAS/lb

RECEIVED 01-11-95

SAMPLE #C4 PU 12/21/94



20 Squares to the Inch

SLACKE TEST BORING, INC.

Subsurface Soils & Foundation Explorations

65 RUMFORD ROAD, P.O. BOX 64, KINGS PARK, NEW YORK 11754 • (516) 265-1666 • FAX 265-5443

December 29, 1994

Mr. Steve Barrett
Site CQA Manager - Field Services
GeoSyntec Consultants
Town of Huntington Resource Recovery
Town Line Road
Town of Huntington, New York 11743

RE: Huntington Landfill/Sample pu 12/29/94 - Sample #C5

SIEVE SIZE	PERCENT PASSING	COMMON FILL SPECIFICATIONS
3/4"	87.8	N/A
4	60.8	N/A
40	32.8	Max 75
200	17.7	Max 20%

MAXIMUM DENSITY - 130.3#/cu ft

OPTIMUM MOISTURE - 8.5%

Testing done in Accordance with Method D ASTM 1557, ASTM C-136

Respectfully submitted,

SLACKE TEST BORING, INC.

Sally Ann Slacke
President

SAS/lb

RECEIVED 01-11-95

MAXIMUM DENSITY
OPTIMUM MOISTURE
122.0
123.0
124.0
125.0
126.0
127.0
128.0
129.0
130.0
131.0
132.0
133.0
5.0
6.0
7.0
8.0
9.0
10.0
11.0
12.0
13.0

C-5

2 of 2

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: 6 day 1 month 95 year

SOURCE: SCHNEIDER MATERIAL TYPE: COM-FILL SAMPLE NO.: C-6 QA ID: FVC

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)	1834	1225
WT. OF TARE	(grams)	441	19
WT. OF DRY SAMPLE	(grams)	1393	1206

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1		35	2.5	97.5	
5/8		46.5	3.3	94.2	
3/8		86.5	6.2	88.0	
4		115.5	8.3	79.7	
40		544.0	39.1	40.6	MAX. 75
200		375.5	27.0	13.6	MAX 20
		1203.0			

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

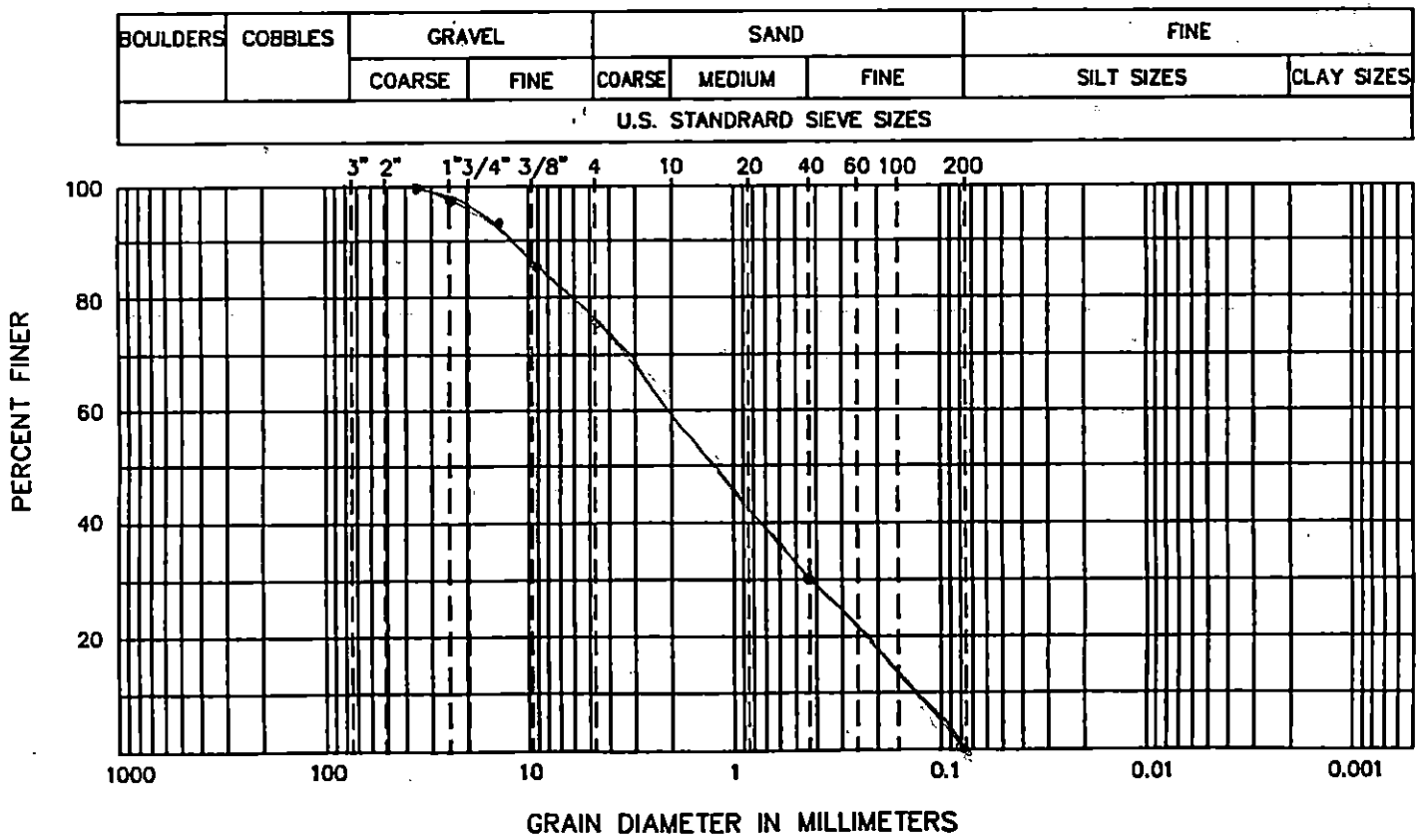
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 9 day 1 month 95 year

SOURCE: SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-6 QA ID: FVC



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	—
2-in.	—
1 1/2-in.	100
1-in.	97.1
3/4-in.	—
1/2-in.	—
3/8-in.	86.0
NO. 4	76.4
NO. 10	—
NO. 20	—
NO. 40	31.2
NO. 60	—
NO. 100	—
NO. 200	0

SOIL CLASSIFICATION (ASTM D 2487): _____

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD A)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 9 day 1 month 95 year

SOURCE: SCHNEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-6 QA ID: FVC

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/4-in. (19-mm) SIEVE IS LESS THAN 30% AND IF THE MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS LESS THAN 20%.
ALL MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS DISCARDED.
USE A 4-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 25 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	6374.2	6470	6465.0	6450 -	
B	WT. OF MOLD	(grams)	4330	4330	4330	4330	
C	WT. OF SOIL = A - B	(grams)	2044.2	2140	2135	2120	
D	WET UNIT WT.(1) = C X 0.066	(pcf)	134.9	141.2	140.9	139.9	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	128.2	131.9	129.8	125.8	

NOTE: (1) IF CALIBRATED MOLD OF 1/30 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 = (30 / 453.6) = 0.066). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/30 ± 0.0005 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)	19.2	19.2	19.0	19.0	
G	WT. OF WET SOIL & TARE	(grams)	251.8	226.7	475.0	515.7	
H	WT. OF DRY SOIL & TARE	(grams)	240.3	212.8	439.0	465.5	
I	WT. OF WATER = G - H	(grams)	11.5	13.9	36.0	50.2	
J	WT. DRY SOIL = H - F	(grams)	221.1	193.6	420.0	446.5	
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.2%	7.1%	8.6%	11.2	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

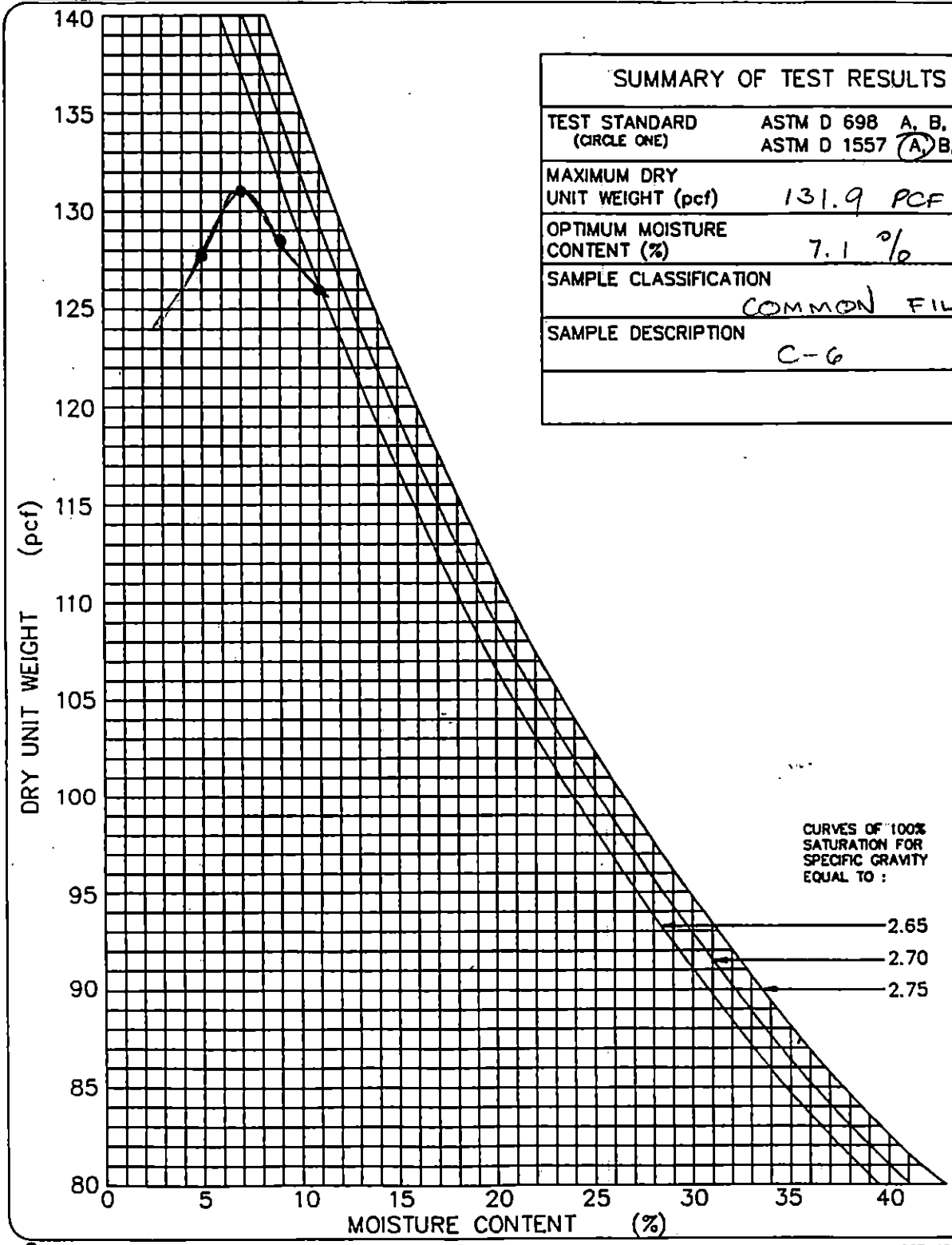
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 9 day 1 month 95 year

SOURCE: SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-6 QA ID: FYC

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)	131.9 PCF
OPTIMUM MOISTURE CONTENT (%)	7.1 %
SAMPLE CLASSIFICATION	COMMON FILL
SAMPLE DESCRIPTION	C-6



GeoSyntec Consultants

TOWN OF HUNTINGTON

LABORATORY DETERMINATION OF MOISTURE CONTENT OF SOIL

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 16 day 1 month 95 year
SOURCE: SCHNEIDER MATERIAL TYPE: COM-FILL SAMPLE NO.: C-7 QA ID: FVC

OVEN METHOD (ASTM D 2216)

RECOMMENDED MASS OF MOIST SAMPLE WEIGHT

100% PASING THE NO. 10 (2-mm) SIEVE	20 grams
100% PASSING THE NO. 4 (4.75-mm) SIEVE	100 grams
100% PASSING THE NO. 3/8-in. (9.5-mm) SIEVE	500 grams
100% PASSING THE NO. 3/4-in. (19-mm) SIEVE	2.5 kilograms

	TARE NO.					
A	WT. OF TARE	315.7				
B	WT. OF WET SOIL & TARE	1815.7				
C	WT. OF DRY SOIL & TARE	1673.0				
D	WT. OF WATER = B-C	142.7				
E	WT. OF DRY SOIL = C-A	1357.3				
F	MOISTURE CONTENT = (D/E) X 100	10.5 %				

MICROWAVE METHOD (ASTM D 4643)

RECOMMENDED MASS OF MOIST SAMPLE WEIGHT

90% PASSING THE NO. 10 (2-mm) SIEVE	100 TO 200 grams
90% PASSING THE NO. 4 (4.75-mm) SIEVE	200 TO 500 grams
90% PASSING THE 3/4-in. (19-mm) SIEVE	500 TO 1000 grams

INITIAL SETTING TO BE AT 3.0 MINUTES, CONTINUE DRYING SAMPLE AT 1.0 MINUTE SETTING UNTIL MOISTURE CONTENT VARIATION BETWEEN SETTINGS IS LESS THAN 0.1%

	TARE NO.					
A	WT. OF TARE					
B	WT. OF WET SOIL & TARE					
C	WT. OF DRY SOIL & TARE					
D	WT. OF WATER = B-C					
E	WT. OF DRY SOIL = C-A					
F	MOISTURE CONTENT = (D/E) X 100					

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TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD A)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 24 day 1 month 95 year

SOURCE: SCHLEIDER MATERIAL TYPE: COMMON FILL — SAMPLE NO.: C-7 QA ID: FVC

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/4-in. (19-mm) SIEVE IS LESS THAN 30% AND IF THE MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS LESS THAN 20%.
ALL MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS DISCARDED.
USE A 4-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 25 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	~~6350~~	6395	6410	6430	
B	WT. OF MOLD	(grams)	4330	4330	4330	4330	
C	WT. OF SOIL = A - B	(grams)	1970	2065	2080	2100	
D	WET UNIT WT.(1) = C X 0.066	(pcf)	130	136.3	137.3	138.6	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.4	127.5	125.8	124.5	

NOTE: (1) IF CALIBRATED MOLD OF 1/30 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 = (30 / 453.6) = 0.066). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/30 ± 0.0005 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)	19.0	19.0	19.0	19.0	
G	WT. OF WET SOIL & TARE	(grams)	278.0	305.5	265.1	279.0	
H	WT. OF DRY SOIL & TARE	(grams)	264.5	286.9	244.6	252.5	
I	WT. OF WATER = G - H	(grams)	13.5	18.6	20.5	26.5	
J	WT. DRY SOIL = H - F	(grams)	245.5	267.9	225.6	233.5	
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.4	6.9	9.1	11.3	

NOTE: DECALIBRATION AT C-7 DATED 1-17-95

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

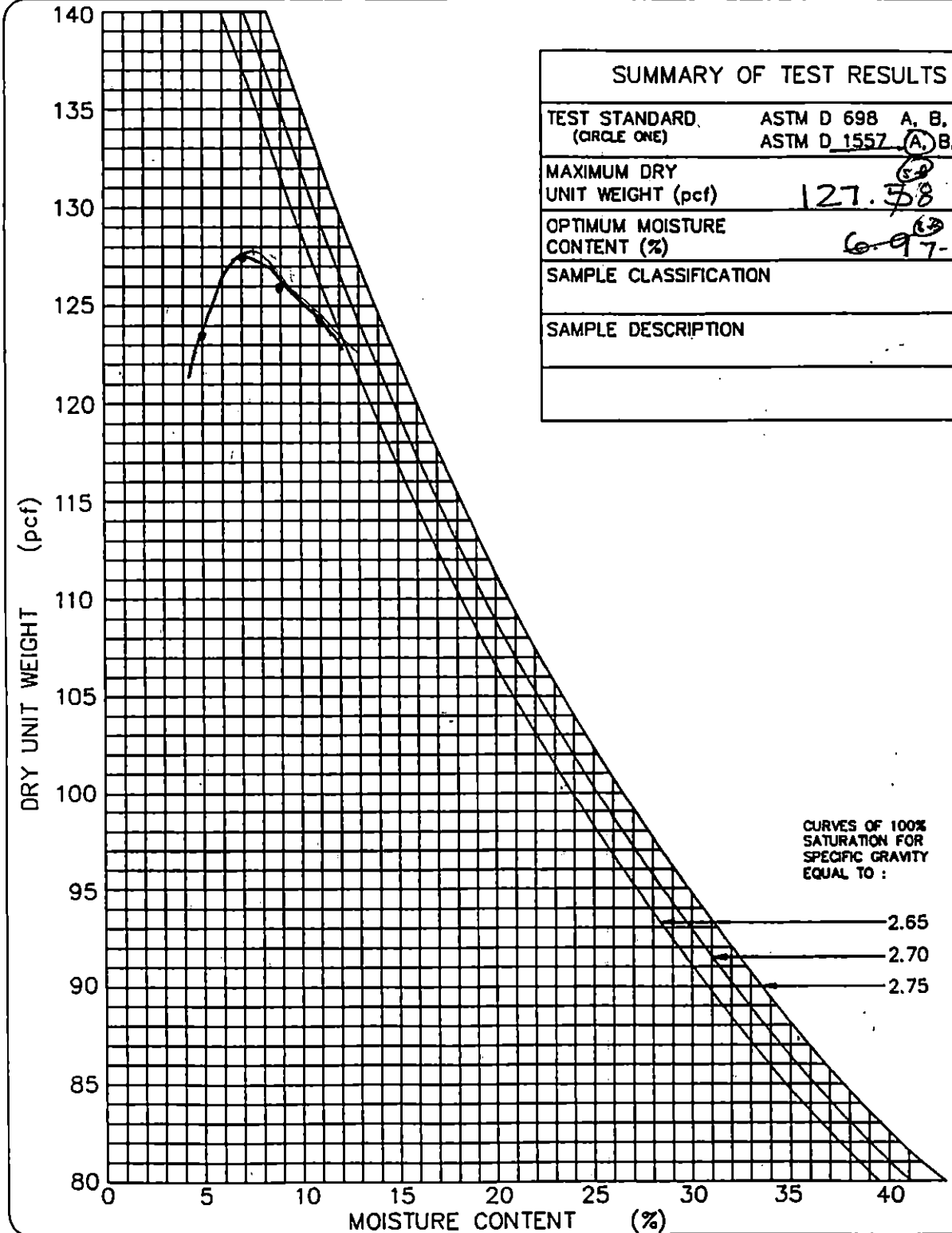
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 24 day 1 month 95 year

SOURCE: SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-7 QA ID: FYC

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 (5.8) 8
OPTIMUM MOISTURE CONTENT (%)	6.9 (6.3) 7.5
SAMPLE CLASSIFICATION	
SAMPLE DESCRIPTION	



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 1 month 95 year
SOURCE: SCHNEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: C8 QA ID: FVC

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	1805 (grams)	1691	1112.0
WT. OF TARE	447 (grams)	447	17.5
WT. OF DRY SAMPLE	(grams)	1244	1094.5

149.5
12 % L

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1		0	0	100	
1/2		19.2	1.5	98.5	
3/8		45.8	3.7	94.8	
#4		110.8	8.9	85.9	
#40		602.3	48.4	37.5	MAX. 75
#200		316.1	25.4	12.1	MAX. 20
		1094.2			

%FINER = 100 − Σ % RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

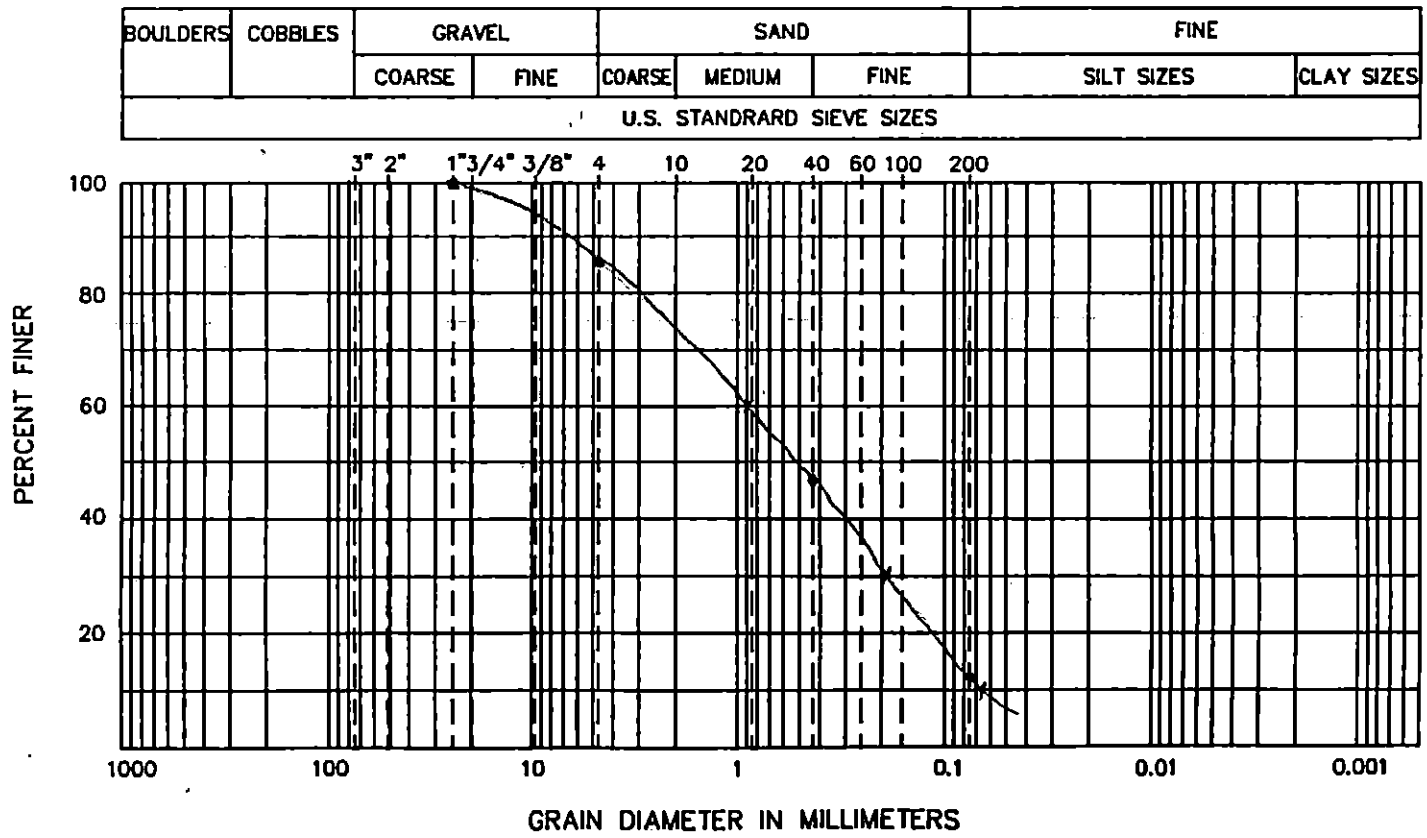
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 01 day 02 month 95 year

SOURCE: SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-8 QA ID: FVC



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
3/4-in.	
1/2-in.	98.5
3/8-in.	94.8
NO. 4	85.9
NO. 10	
NO. 20	
NO. 40	37.5
NO. 60	12.1
NO. 100	
NO. 200	

SOIL CLASSIFICATION (ASTM D 2487): _____

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TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD A)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 24 day 1 month 95 year

SOURCE: SCHLEIDER MATERIAL TYPE: COMMON FILL — SAMPLE NO.: C-8 QA ID: FVC

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/4-in. (19-mm) SIEVE IS LESS THAN 30% AND IF THE MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS LESS THAN 20%.
ALL MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS DISCARDED.
USE A 4-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 25 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	6275	6360	6415	6460	6365
B	WT. OF MOLD	(grams)	4330	4330	4330	4330	4330
C	WT. OF SOIL = A - B	(grams)	1945	2030	2085	2130	2035
D	WET UNIT WT.(1) = C X 0.066	(pcf)	128.4	134	137.6	140.6	134.3
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	122.1	125.4	126.0	126.3	119.0

NOTE: (1) IF CALIBRATED MOLD OF 1/30 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 = (30 / 453.6) = 0.066). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/30 ± 0.0005 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)	19.0	17.5	447	17.5	19.2
G	WT. OF WET SOIL & TARE	(grams)	205.3	330.0	1805	332.2	389.2
H	WT. OF DRY SOIL & TARE	(grams)	196.0	310.0	1691	300.0	346.7
I	WT. OF WATER = G - H	(grams)	9.0	19.7	114	32.0	42.5
J	WT. DRY SOIL = H - F	(grams)	117.1	292.8	1244	282.7	327.5
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.1	6.8	9.2	11.3	12.9

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

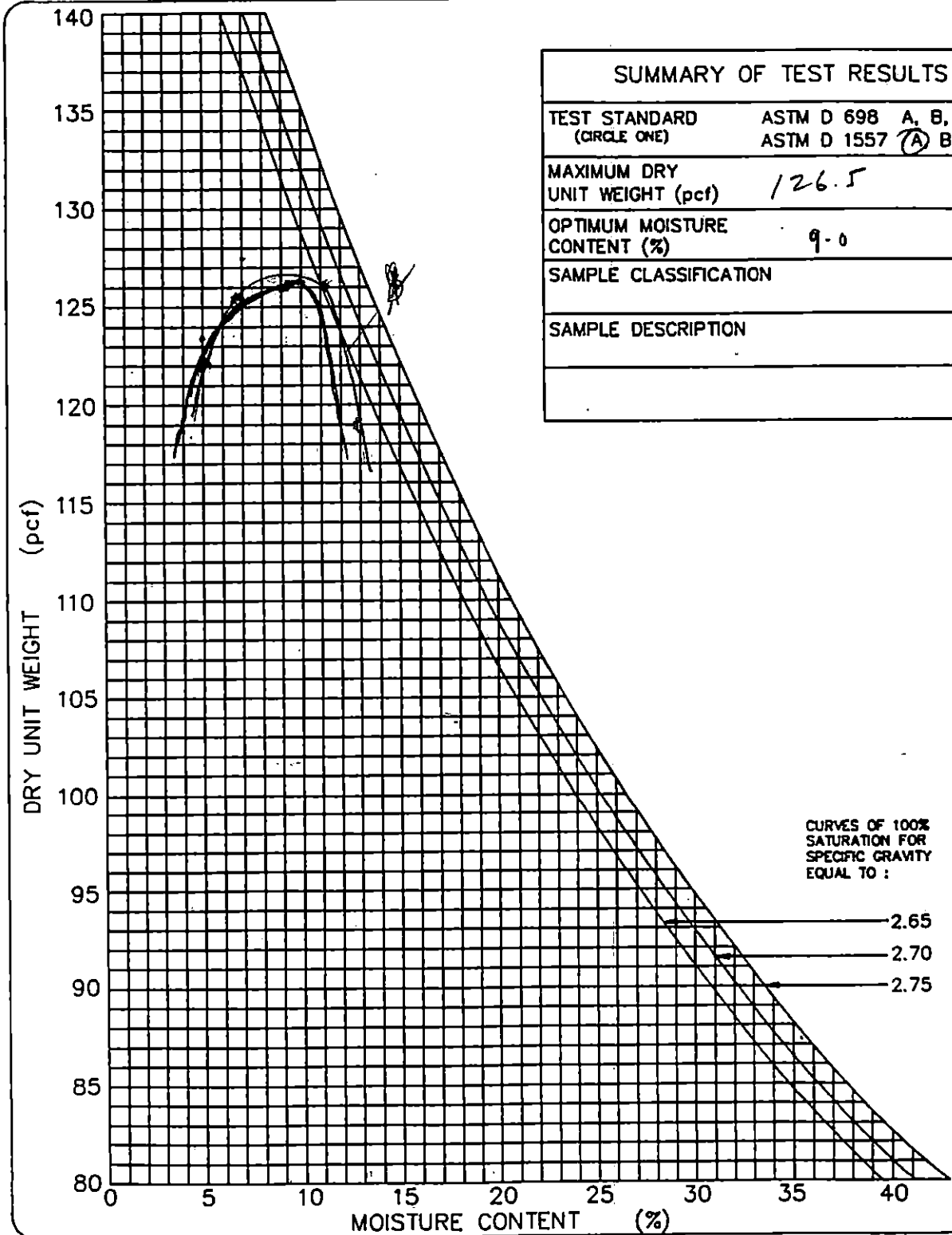
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 24 day 1 month 95 year

SOURCE: SCHNEIDER MATERIAL TYPE: COM-FILL SAMPLE NO.: C-B QA ID: FVC

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 (%)	9.0
SAMPLE CLASSIFICATION	
SAMPLE DESCRIPTION	



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 1 month 95 year

SOURCE: SCHNEIDER MATERIAL TYPE: COM-PLY SAMPLE NO.: C-9 QA ID: FVC

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)	1507.8	1377.2
WT. OF TARE	(grams)	447.0	447.0
WT. OF DRY SAMPLE	(grams)	1060.8	930.2

SIEVE ANALYSIS

12.3% L

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1		0	0	100	
1/2		22.0	2.1	97.9	
3/8		73.5	6.9	93.1	
# 4		170.6	16.1	83.9	
# 40		656.4	61.9	38.1	MAX 75
# 200		928.4	87.6	12.4	MAX 20

%FINER = 100 − Σ% RETAINED

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TOWN OF HUNTINGTON

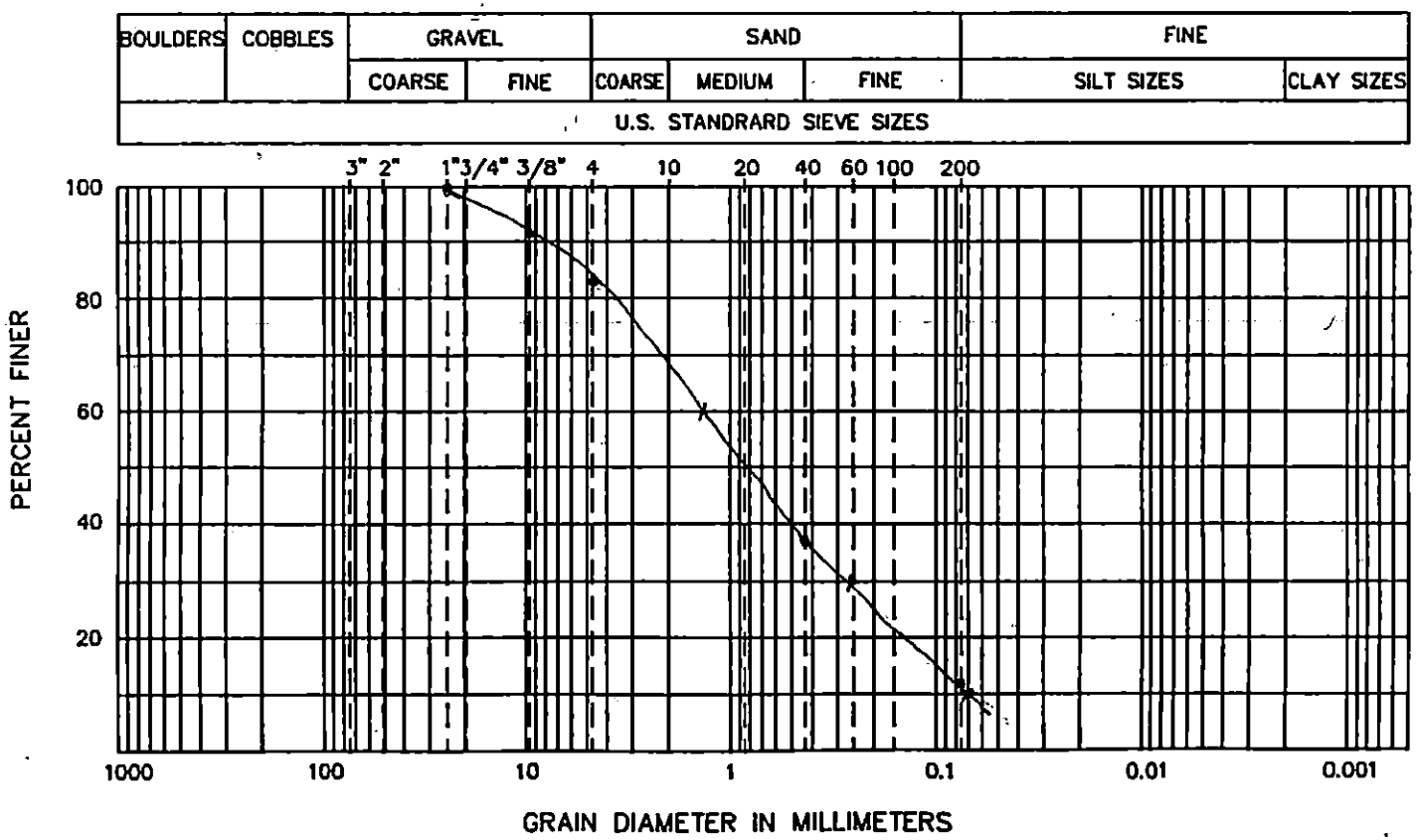
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: SCHNEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-9 QA ID: FKC



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
3/4-in.	
1/2-in.	97.9
3/8-in.	93.1
NO. 4	83.9
NO. 10	
NO. 20	
NO. 40	38.1
NO. 60	
NO. 100	
NO. 200	12.4

SOIL CLASSIFICATION (ASTM D 2487): _____

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TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD A)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 25 day 1 month 95 year

SOURCE: SCHLEIDER MATERIAL TYPE: COMMON FILL — SAMPLE NO.: C-9 QA ID: FVC

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/4-in. (19-mm) SIEVE IS LESS THAN 30% AND IF THE MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS LESS THAN 20%.
ALL MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS DISCARDED.
USE A 4-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 25 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	6230	6375	6385		
B	WT. OF MOLD	(grams)	4330	4330	4330		
C	WT. OF SOIL = A - B	(grams)	1900	2045	2055		
D	WET UNIT WT.(1) = C X 0.066	(pcf)	125.4	135.0	135.6		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	118.6	125.5	123.4		

NOTE: (1) IF CALIBRATED MOLD OF 1/30 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 = (30 / 453.6) = 0.066). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/30 ± 0.0005 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)	19.0	19.0	447.0		
G	WT. OF WET SOIL & TARE	(grams)	349.2	229.9	1612.5		
H	WT. OF DRY SOIL & TARE	(grams)	331.5	215.0	1507.8		
I	WT. OF WATER = G - H	(grams)	17.7	14.9	104.7		
J	WT. DRY SOIL = H - F	(grams)	312.5	196.0	1060.8		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.7	7.6	9.9		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

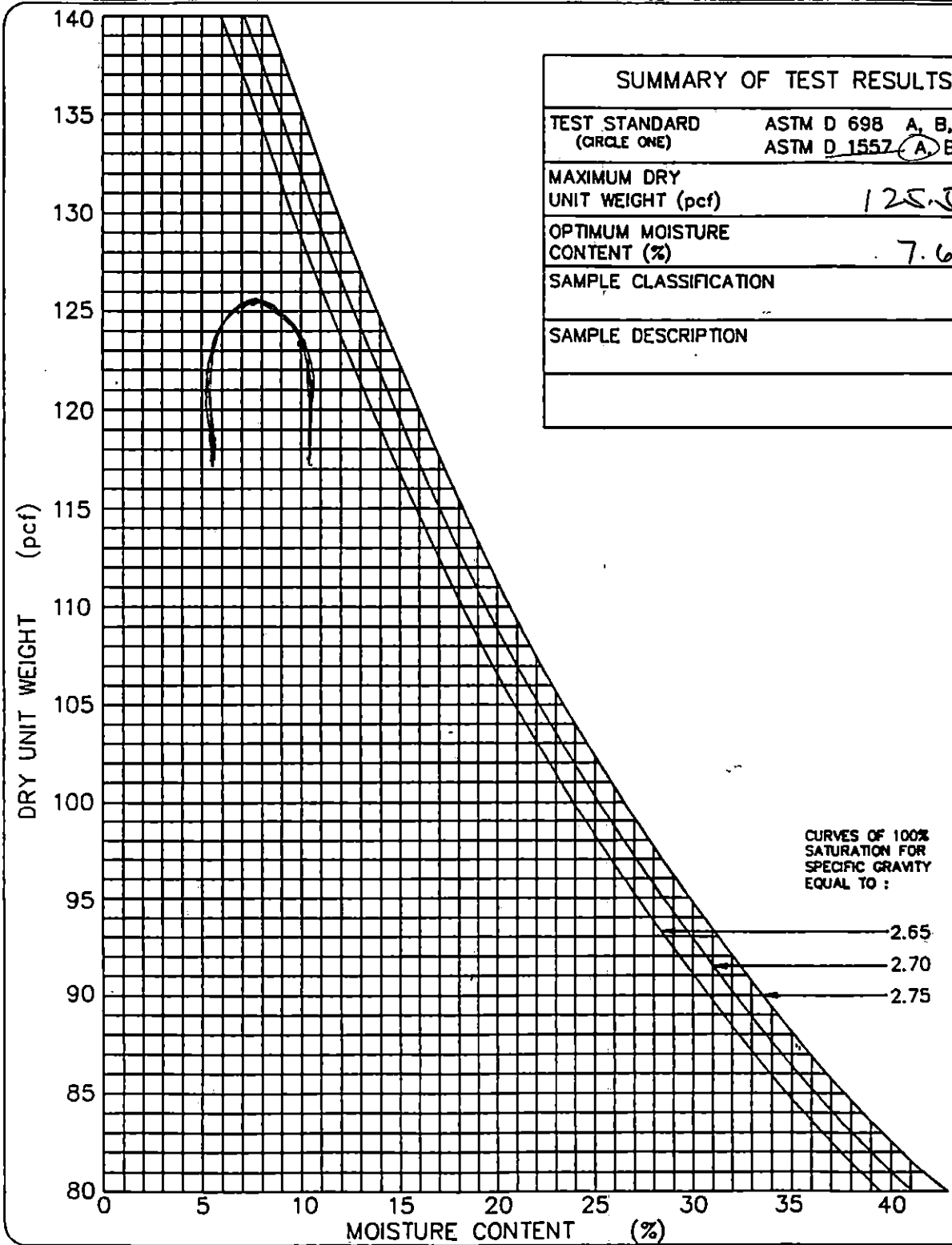
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 25 day 1 month 95 year

SOURCE: SCHNEIDER MATERIAL TYPE: CDM - FILL SAMPLE NO.: C-9 QA ID: FVC



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)	125.5
OPTIMUM MOISTURE CONTENT (%)	7.6
SAMPLE CLASSIFICATION	
SAMPLE DESCRIPTION	

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 JAN month 95 year

SOURCE: SCHNEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-11 QA ID: FVC

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)	1867.3	1728.5
WT. OF TARE	(grams)	447.1	447.1
WT. OF DRY SAMPLE	(grams)	1419.9	1281.4

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"		0	0	100	
5/8"		0	0	100	
1/2"		23.9	1.7	98.3	
3/8"		99.1	7.0	91.3	
# 4		152.6	10.7	80.6	
# 40		650.1	45.8	34.8	MAX-75
# 200		355.5	25.0	9.8	MAX-20
PAN		-	-		
		1281.2			

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

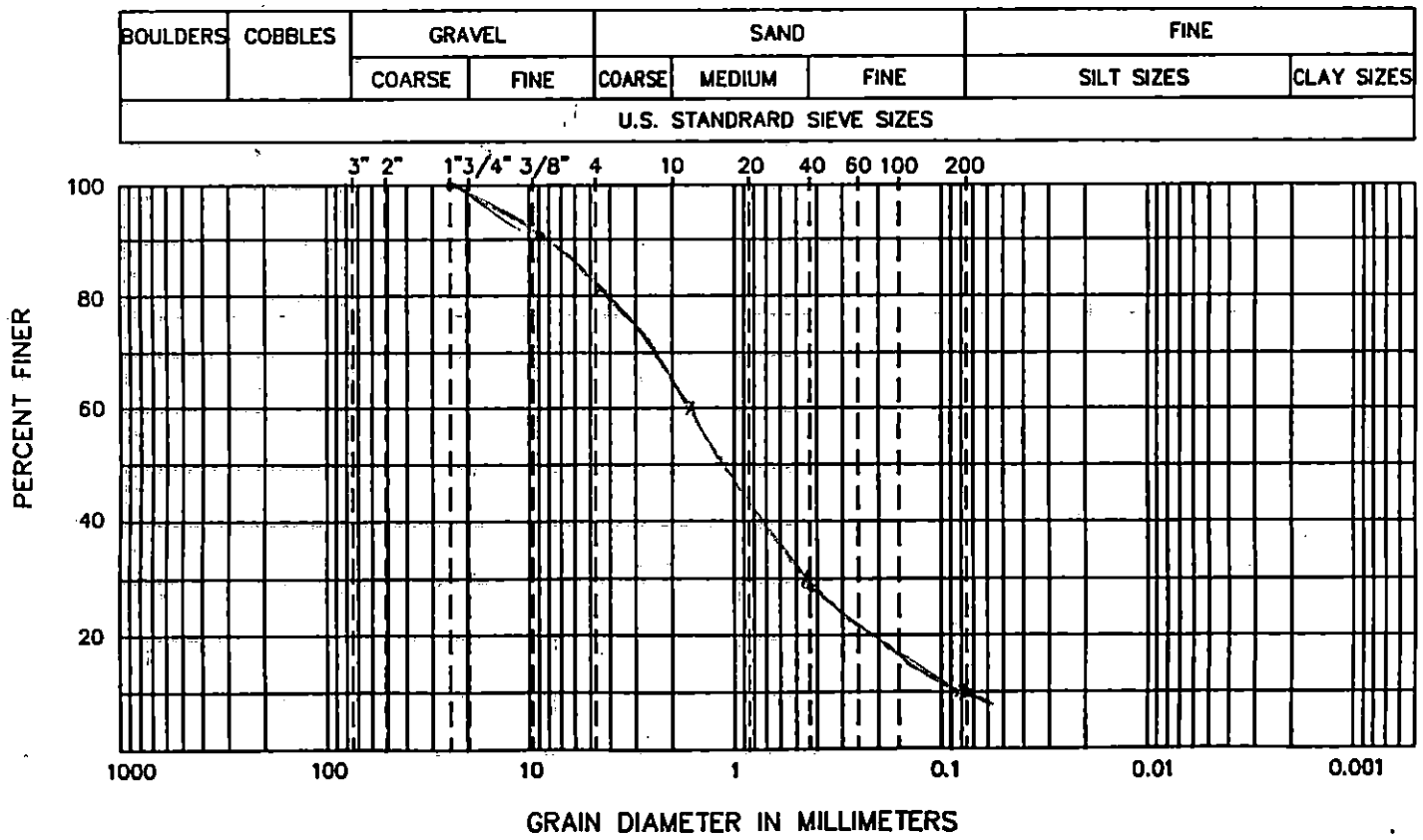
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 01 day 02 month 95 year

SOURCE: SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-11 QA ID: FVC



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
3/4-in.	
1/2-in.	98.3
3/8-in.	91.3
NO. 4	80.6
NO. 10	
NO. 20	
NO. 40	34.8
NO. 60	
NO. 100	
NO. 200	9.8

SOIL CLASSIFICATION (ASTM D 2487): _____

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD A)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 31 day JAN month 95 year

SOURCE: SCHLEIDER — MATERIAL TYPE: COMMON FILL — SAMPLE NO.: C-11 — QA ID: FVC

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/4-in. (19-mm) SIEVE IS LESS THAN 30% AND IF THE MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS LESS THAN 20%.
ALL MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS DISCARDED.
USE A 4-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 25 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	6235	6335	6390	6405	
B	WT. OF MOLD	(grams)	4330	4330	4330	4330	
C	WT. OF SOIL = A - B	(grams)	1905	2005	2060	2075	
D	WET UNIT WT.(1) = C X 0.066	(pcf)	125.7	132.3	136.0	137.0	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	120.4	124.5	125.7	124.5	

NOTE: (1) IF CALIBRATED MOLD OF 1/30 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 = (30 / 453.6) = 0.066). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/30 ± 0.0005 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)	57.1	57.1	447.1	57.1	
G	WT. OF WET SOIL & TARE	(grams)	339.3	322.3	1983.8	491.7	
H	WT. OF DRY SOIL & TARE	(grams)	327.5	306.6	1867.3	452.2	
I	WT. OF WATER = G - H	(grams)	11.8	15.7	116.5	39.5	
J	WT. DRY SOIL = H - F	(grams)	270.4	249.5	1420.2	395.1	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.4	6.3	8.2	10.0	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

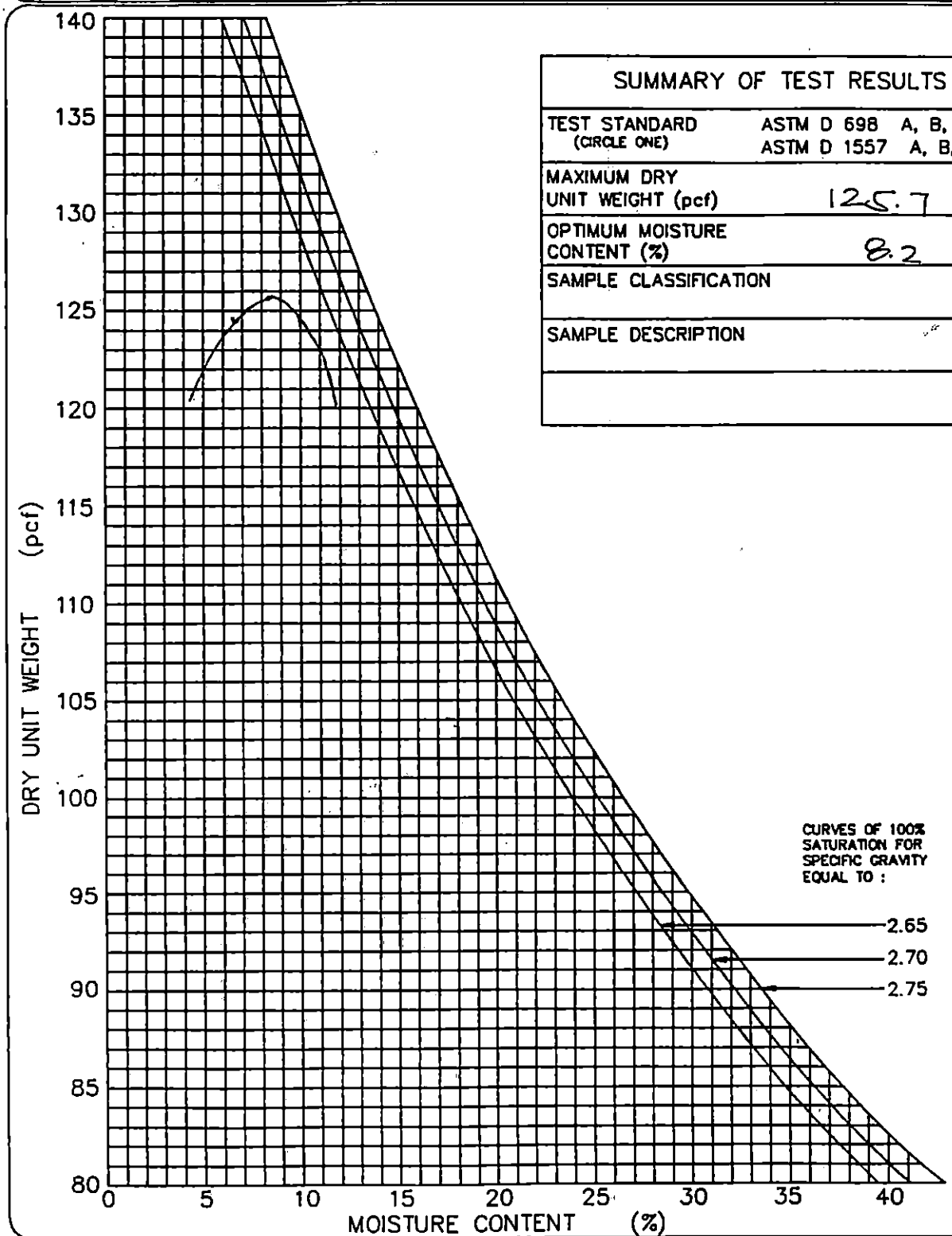
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 31 day 01 month 95 year

SOURCE: SCHNEIDER MATERIAL TYPE: COM-FILL SAMPLE NO.: C-11 QA ID: FVC

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)	125.7
OPTIMUM MOISTURE CONTENT (%)	8.2
SAMPLE CLASSIFICATION	
SAMPLE DESCRIPTION	



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 02 month 95 year

SOURCE: SCHNEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-12 QA ID: FYC

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)	1953.3 ~~1815.7~~	1784.8
WT. OF TARE	(grams)	447.0 ~~315.7~~	447.0
WT. OF DRY SAMPLE	(grams)	1506.3	1337.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"		0	0	100	
1/2"		47.3	3.1	96.9	
3/8"		49.1	3.3	93.6	
#4		148.8	9.9	83.7	
#10		172.8	11.5	72.2	
#40		519.3	34.5	37.7	~~MAX~~ 75
#200		398.1	26.4	11.3	~~MAX~~ 20
Pan					

%FINER = 100 − Σ% RETAINED

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS

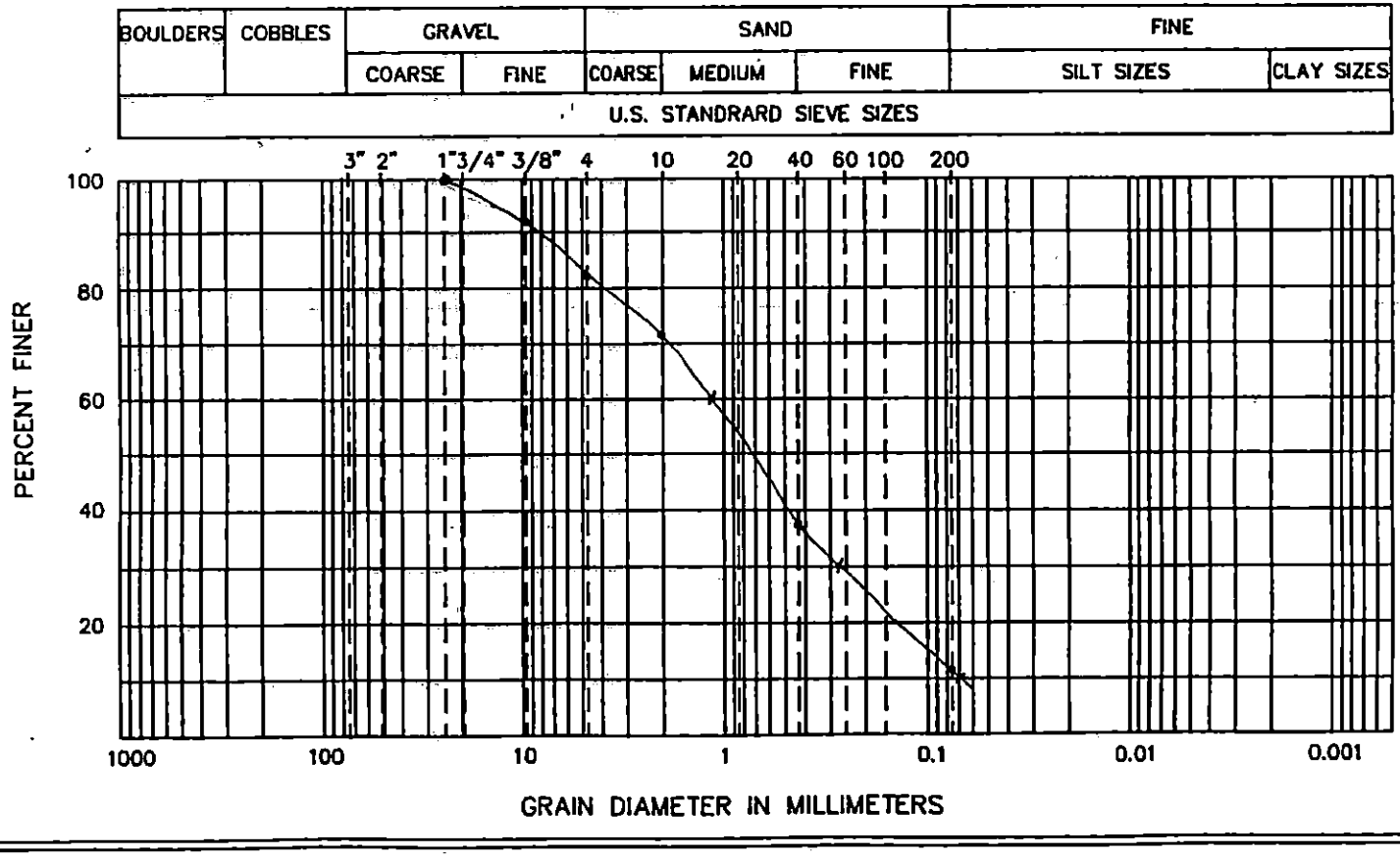
(ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 01 day 02 month 95 year

SOURCE: SCHLEIDER MATERIAL TYPE: COMMON FILL — SAMPLE NO.: C-12 QA ID: FVC



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
3/4-in.	
1/2-in.	96.9
3/8-in.	93.6
NO. 4	83.7
NO. 10	72.2
NO. 20	
NO. 40	37.7
NO. 60	
NO. 100	
NO. 200	11.3

SOIL CLASSIFICATION (ASTM D 2487): _____

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD A)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 01 day 02 month 95 year

SOURCE: SCHLEIDER MATERIAL TYPE: COMMON - FILL — SAMPLE NO.: C-12 QA ID: FYC

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/4-in. (19-mm) SIEVE IS LESS THAN 30% AND IF THE MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS LESS THAN 20%.
ALL MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS DISCARDED.
USE A 4-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 25 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	6410.0	6435.0	6440.0		
B	WT. OF MOLD	(grams)	4330.0	4330.0	4330.9		
C	WT. OF SOIL = A - B	(grams)	2080.0	2105.0	2110.9		
D	WET UNIT WT.(1) = C X 0.066	(pcf)	137.3	138.9	139.3		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	128.2	128.4	126.6		

NOTE: (1) IF CALIBRATED MOLD OF 1/30 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 = (30 / 453.6) = 0.066). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/30 ± 0.0005 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)	447.0	57.1	57.1		
G	WT. OF WET SOIL & TARE	(grams)	2060.0	442.7	436.7		
H	WT. OF DRY SOIL & TARE	(grams)	1953.3	413.5	402.0		
I	WT. OF WATER = G - H	(grams)	106.7	29.2	34.7		
J	WT. DRY SOIL = H - F	(grams)	1506.3	356.4	344.9		
K	MOISTURE CONTENT = (I/J) X 100	(%)	7.1	8.2	10.0		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

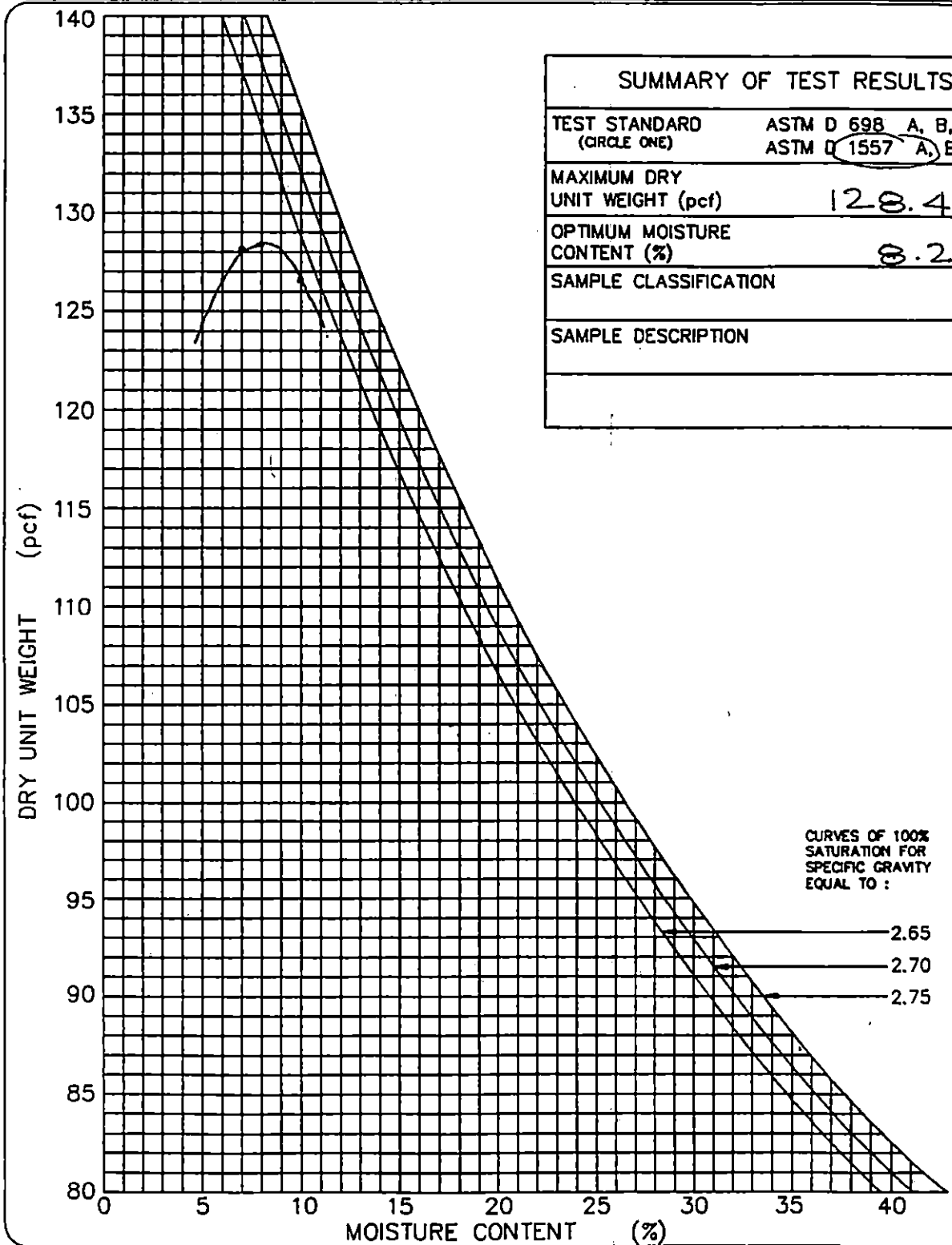
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 01 day 02 month 95 year

SOURCE: SCHNEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-12 QA ID: FYC

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 (%)	8.2
SAMPLE CLASSIFICATION	
SAMPLE DESCRIPTION	



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 02 month 95 year

SOURCE: SCHMEID MATERIAL TYPE: COM-FILL SAMPLE NO.: C-13 QA ID: FVC

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)	1188.2	1319.5
WT. OF TARE	(grams)	59.4	315.7
WT. OF DRY SAMPLE	(grams)	1128.8	1003.3

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1		0	0	100	
1/2		45.7	4.0	96	
3/8		33.2	2.9	93.1	
# 4		105.7	9.4	83.7	
# 10		125.9	11.2	72.5	
# 40		400.2	35.5	37.0	MAX 75
# 200		290.7	25.8	11.2	MAX. 20
PAN		3.9	0.3	10.9	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

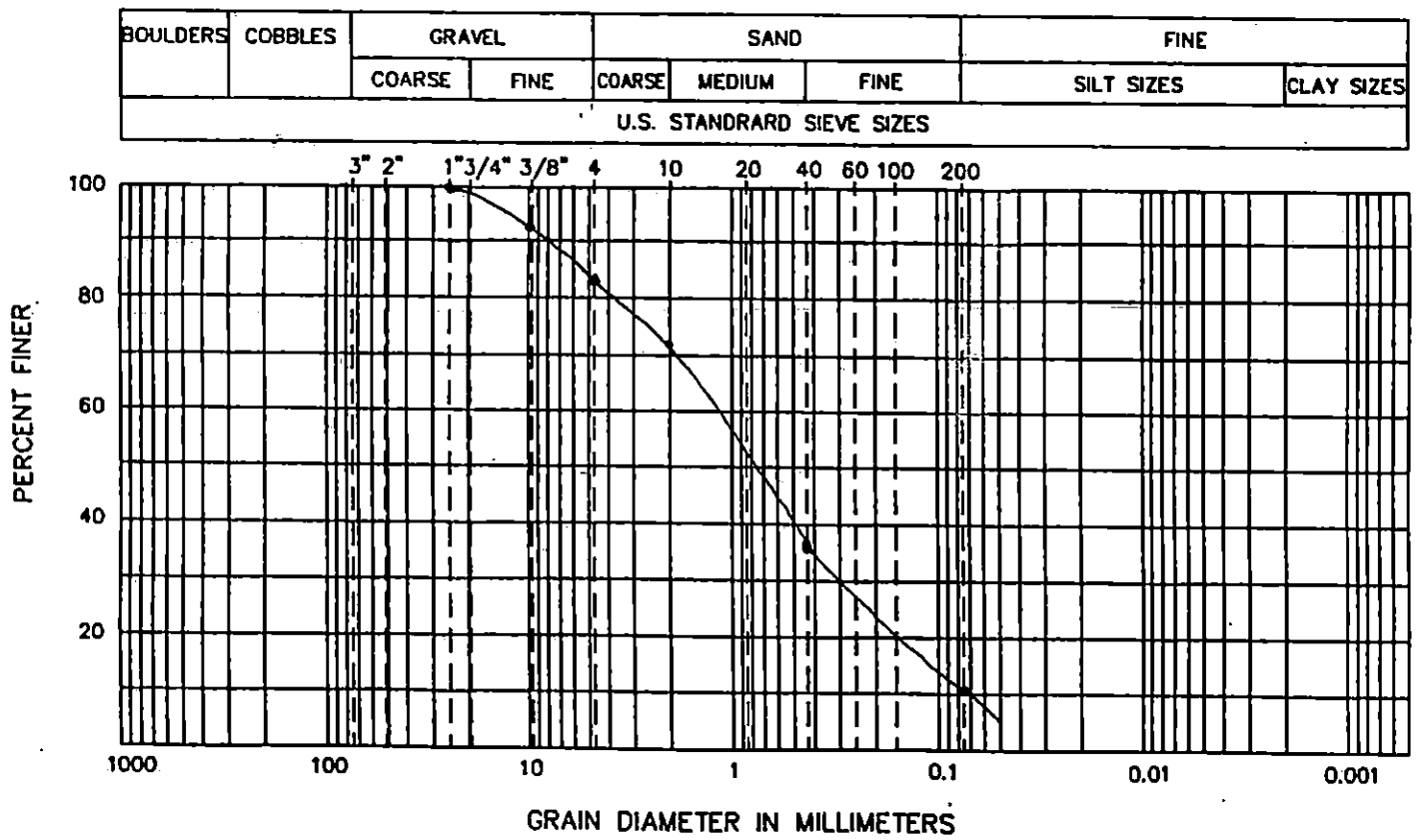
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: SCHNEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-13 QA ID: FVC



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
3/4-in.	
1/2-in.	96.0
3/8-in.	93.1
NO. 4	83.7
NO. 10	72.5
NO. 20	
NO. 40	37.0
NO. 60	
NO. 100	
NO. 200	11.2

SOIL CLASSIFICATION (ASTM D 2487): _____

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TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD A)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: SCHLEIDER MATERIAL TYPE: COMMON FILL — SAMPLE NO.: C-13 QA ID: FYC

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/4-in. (19-mm) SIEVE IS LESS THAN 30% AND IF THE MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS LESS THAN 20%.
ALL MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS DISCARDED.
USE A 4-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 25 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	6295.0	6420	6400		
B	WT. OF MOLD	(grams)	4330	4330	4330		
C	WT. OF SOIL = A - B	(grams)	1965	2090	2070		
D	WET UNIT WT.(1) = C X 0.066	(pcf)	129.7	137.9	136.6		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	122.5	128.4	124.2		

NOTE: (1) IF CALIBRATED MOLD OF 1/30 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 = (30 / 453.6) = 0.066). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/30 ± 0.0005 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)	56.8	57.1	57.1		
G	WT. OF WET SOIL & TARE	(grams)	498.3	477	443.5		
H	WT. OF DRY SOIL & TARE	(grams)	473.8	448	408.5		
I	WT. OF WATER = G - H	(grams)	24.5	29	35		
J	WT. DRY SOIL = H - F	(grams)	417.0	390.9	351.4		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.9	7.4	10		

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TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

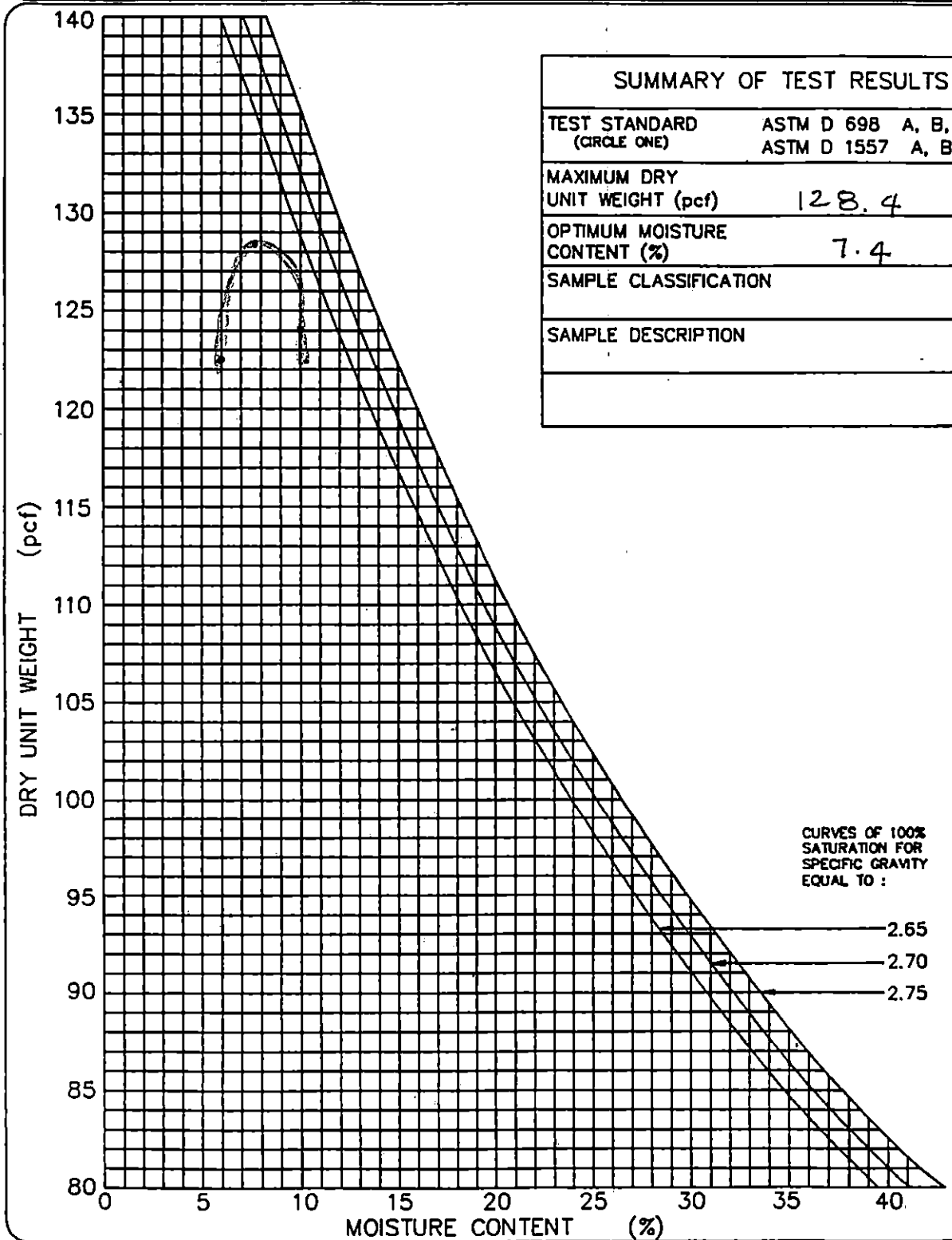
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: ~~SCHNEIDER~~ MATERIAL TYPE: COM-FILL SAMPLE NO.: C-13 QA ID: FVC

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 (%)	7.4
SAMPLE CLASSIFICATION	
SAMPLE DESCRIPTION	



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 02 month 95 year

SOURCE: SOIL BORER MATERIAL TYPE: COM-FILL SAMPLE NO.: C-14 QA ID: FVC

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)	1908.2	1762.0
WT. OF TARE	(grams)	442.3	442.3
WT. OF DRY SAMPLE	(grams)	1465.9	1319.7

10 % -

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"		0	0	100	
3/8"		102.2	7.0	93.0	
# 4		146.9	10.0	83.0	
# 40		685.2	46.7	36.3	MAX. 75
# 200		382.2	26.1	10.2	MAX 20
PAN		2.5	0.2	0	

%FINER = 100 − Σ % RETAINED

©GEOSYNTEC CONSULTANTS FILE NO. 2-14-PWS

GeoSyntec Consultants

TOWN OF HUNTINGTON

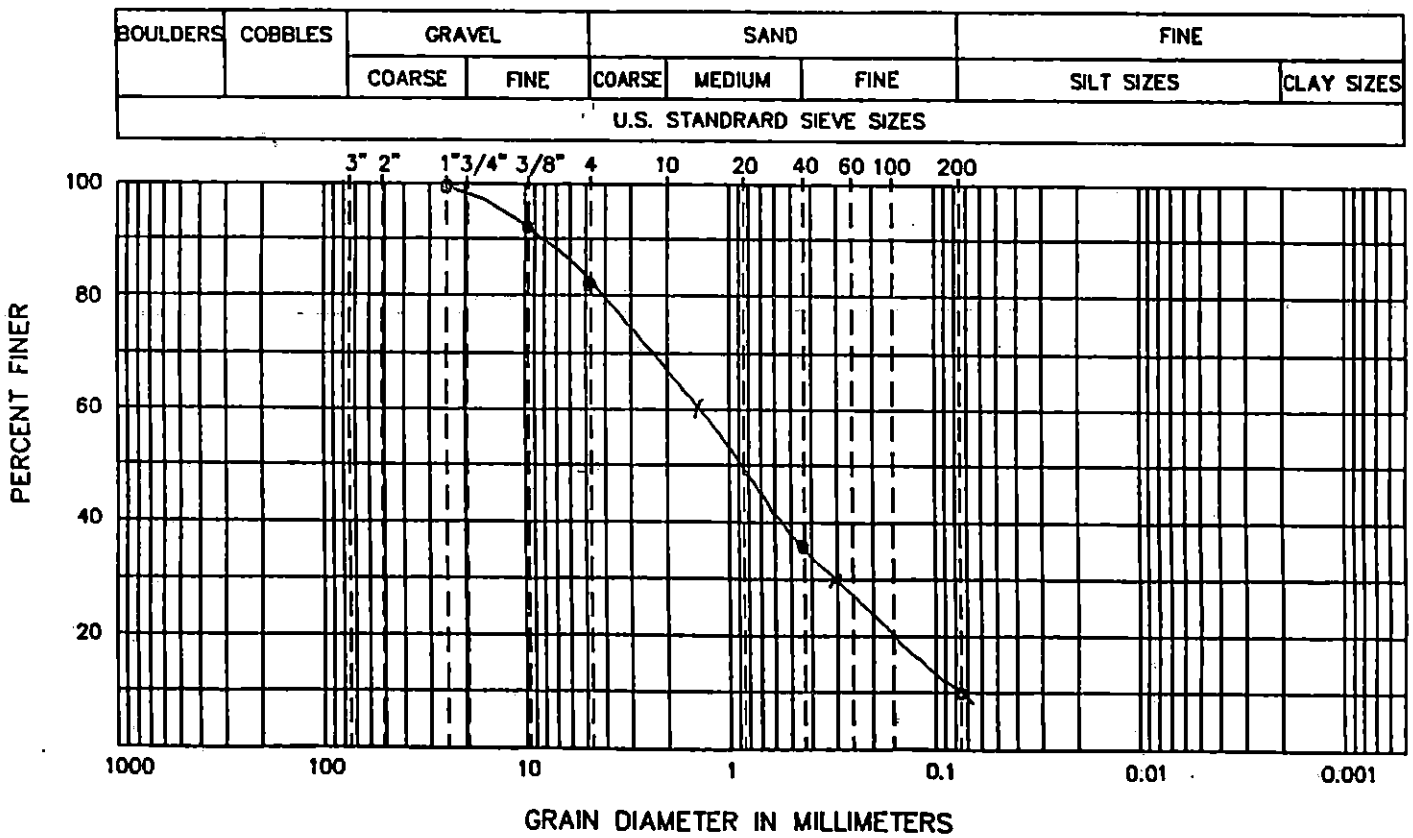
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 07 day 02 month 95 year

SOURCE: SCHEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-14 QA ID: PVC



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
3/4-in.	
1/2-in.	
3/8-in.	93.0
NO. 4	83.0
NO. 10	
NO. 20	
NO. 40	36.2
NO. 60	
NO. 100	
NO. 200	10.2

SOIL CLASSIFICATION (ASTM D 2487): _____

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD A)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 07 day 02 month 95 year

SOURCE: SCHNEIDER MATERIAL TYPE: COMMOD FILL — SAMPLE NO.: C-14 QA ID: FVC

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/4-in. (19-mm) SIEVE IS LESS THAN 30% AND IF THE MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS LESS THAN 20%.
ALL MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS DISCARDED.
USE A 4-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 25 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	6335	6420	6405	6385	
B	WT. OF MOLD	(grams)	4330	4330	4330	4330	
C	WT. OF SOIL = A - B	(grams)	2005	2090	2075	2055	
D	WET UNIT WT.(1) = C X 0.066	(pcf)	132.3	137.9	137.0	135.6	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	124.6	127.6	123.2	120.1	

NOTE: (1) IF CALIBRATED MOLD OF 1/30 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 = (30 / 453.6) = 0.066). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/30 ± 0.0005 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)	56.8	44.23	57.1	56.8	
G	WT. OF WET SOIL & TARE	(grams)	405.1	2031.5	505.8	475.5	
H	WT. OF DRY SOIL & TARE	(grams)	384.8	1908.2	460.5	428.0	
I	WT. OF WATER = G - H	(grams)	20.3	123.3	45.3	47.5	
J	WT. DRY SOIL = H - F	(grams)	328.0	1465.9	402.9	371.2	
K	MOISTURE CONTENT = (I/J) X 100	(%)	6.2	8.4	11.2	12.9	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

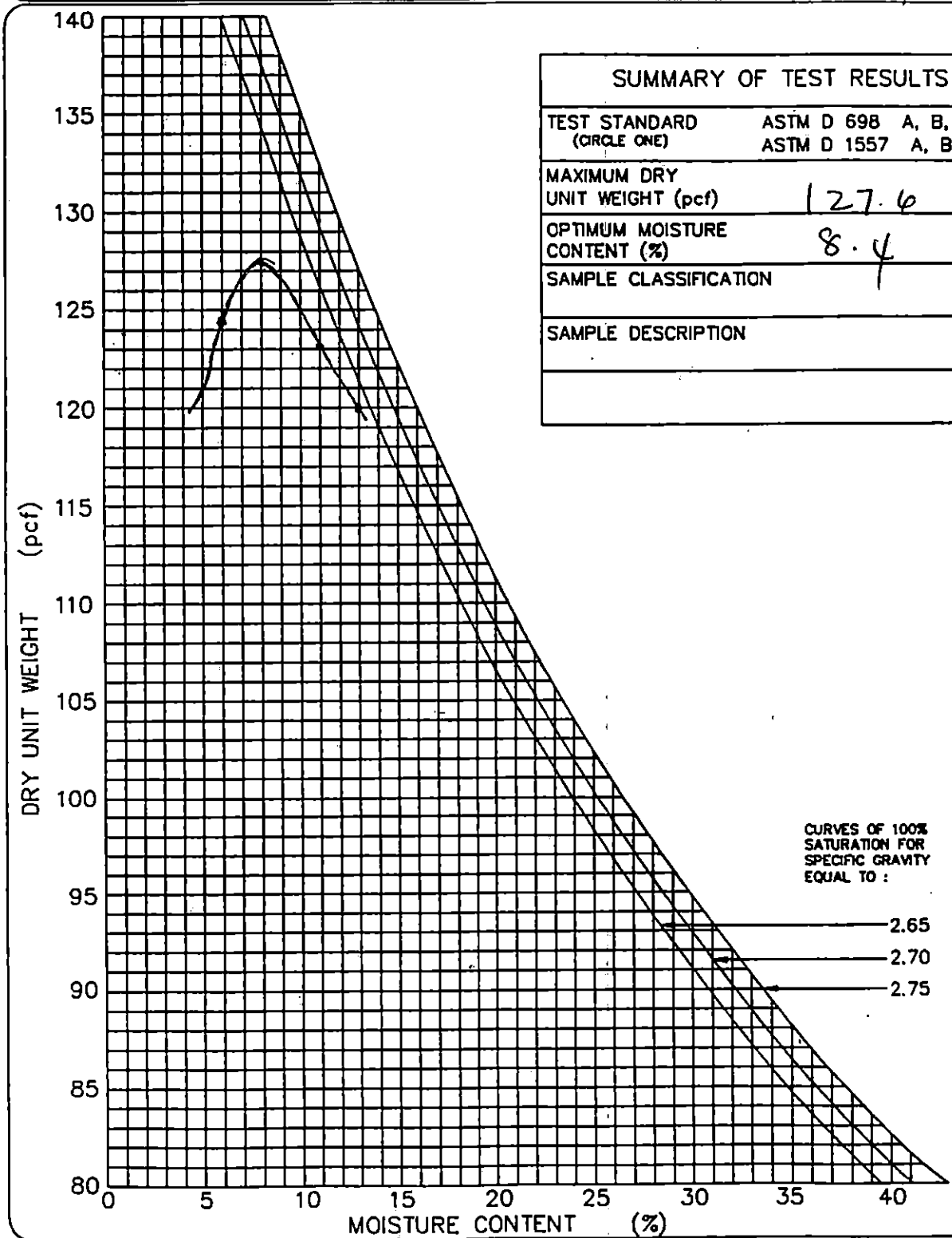
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 07 day 02 month 95 year

SOURCE: SCHNEIDER MATERIAL TYPE: Cem-Fine SAMPLE NO.: C-14 QA ID: FVC

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 (%)	8.4
SAMPLE CLASSIFICATION	
SAMPLE DESCRIPTION	



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 FEB month 95 year

SOURCE: R. SCHLEIDER STOCKYARD MATERIAL TYPE: COMM. FILL SAMPLE NO.: C-15 QA ID: JVC

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)	1514.57	1266.69
WT. OF TARE	(grams)	19.20	19.20
WT. OF DRY SAMPLE	(grams)	1495.37	1247.49

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
5/8"	16.0	14.80	1.0	99.0	
3/8"	9.5	63.69	4.2	95.8	
4	4.75	206.84	13.8	86.2	
10	2.0	373.34	24.9	75.1	
40	.0425	879.65	58.8	41.2	≤75
100	.015	1201.48	80.3	19.7	
200	.075	1246.45	83.3	16.7	≤20
PAN					

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

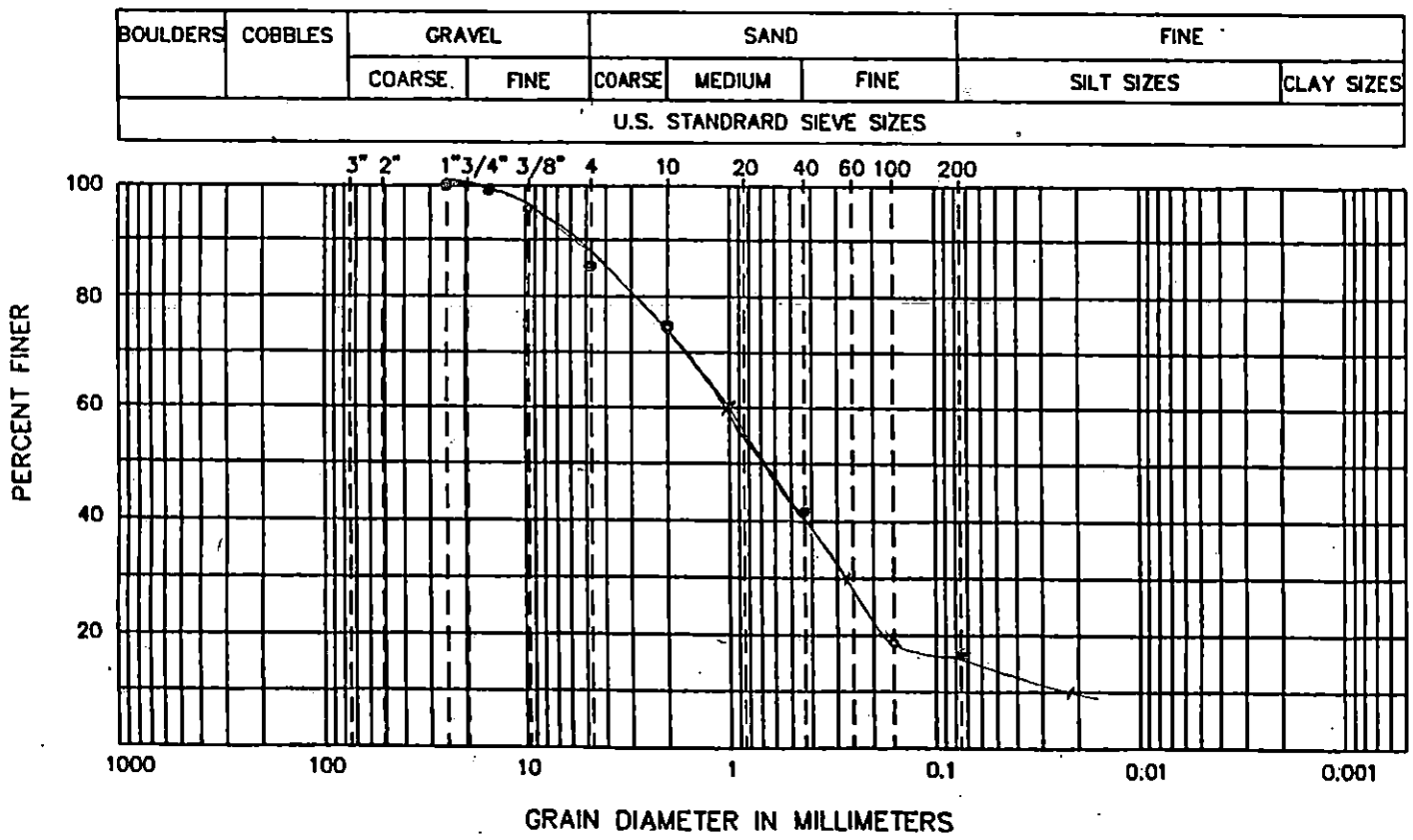
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: R. SCHLENDER STOCKYARD. MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-15 QA ID: JC



CURVE COEFFICIENTS

(C_u) N/A

(C_c) N/A NO D_{10}

ATTERBERG LIMITS

(LL) NP

(PL) NP

(PI) NP

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	100
~~3/4-in.~~ 3/8"	99
1/2-in.	—
3/8-in.	95.8
NO. 4	86.2
NO. 10	75.1
NO. 20	—
NO. 40	41.2
NO. 60	—
NO. 100	19.7
NO. 200	16.7

SOIL CLASSIFICATION (ASTM D 2487):

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD A)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: R. SCHLEIDER — MATERIAL TYPE: COMMON FILL — SAMPLE NO.: C-15 — QA ID: JJC

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/4-in. (19-mm) SIEVE IS LESS THAN 30% AND IF THE MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS LESS THAN 20%.
ALL MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS DISCARDED.
USE A 4-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 25 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	6430	6440	6374	6292	
B	WT. OF MOLD	(grams)	4330	4330	4330	4330	
C	WT. OF SOIL = A - B	(grams)	2,100	2,110	2044	1962	
D	WET UNIT WT.(1) = C X 0.066	(pcf)	138.6	139.3	134.9	129.5	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	127.9	128.9	119.2	122.1	

NOTE: (1) IF CALIBRATED MOLD OF 1/30 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 = (30 / 453.6) = 0.066). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/30 ± 0.0005 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)	57.1	57.1	59.4	59.4	
G	WT. OF WET SOIL & TARE	(grams)	805.3	573.43	611.96	736.47	
H	WT. OF DRY SOIL & TARE	(grams)	748.2	531.49	551.04	697.67	
I	WT. OF WATER = G - H	(grams)	57.1	41.94	60.92	38.8	
J	WT. DRY SOIL = H - F	(grams)	691.1	516.33	491.64	638.27	
K	MOISTURE CONTENT = (I/J) X 100	(%)	8.3	8.1	12.4	6.07	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

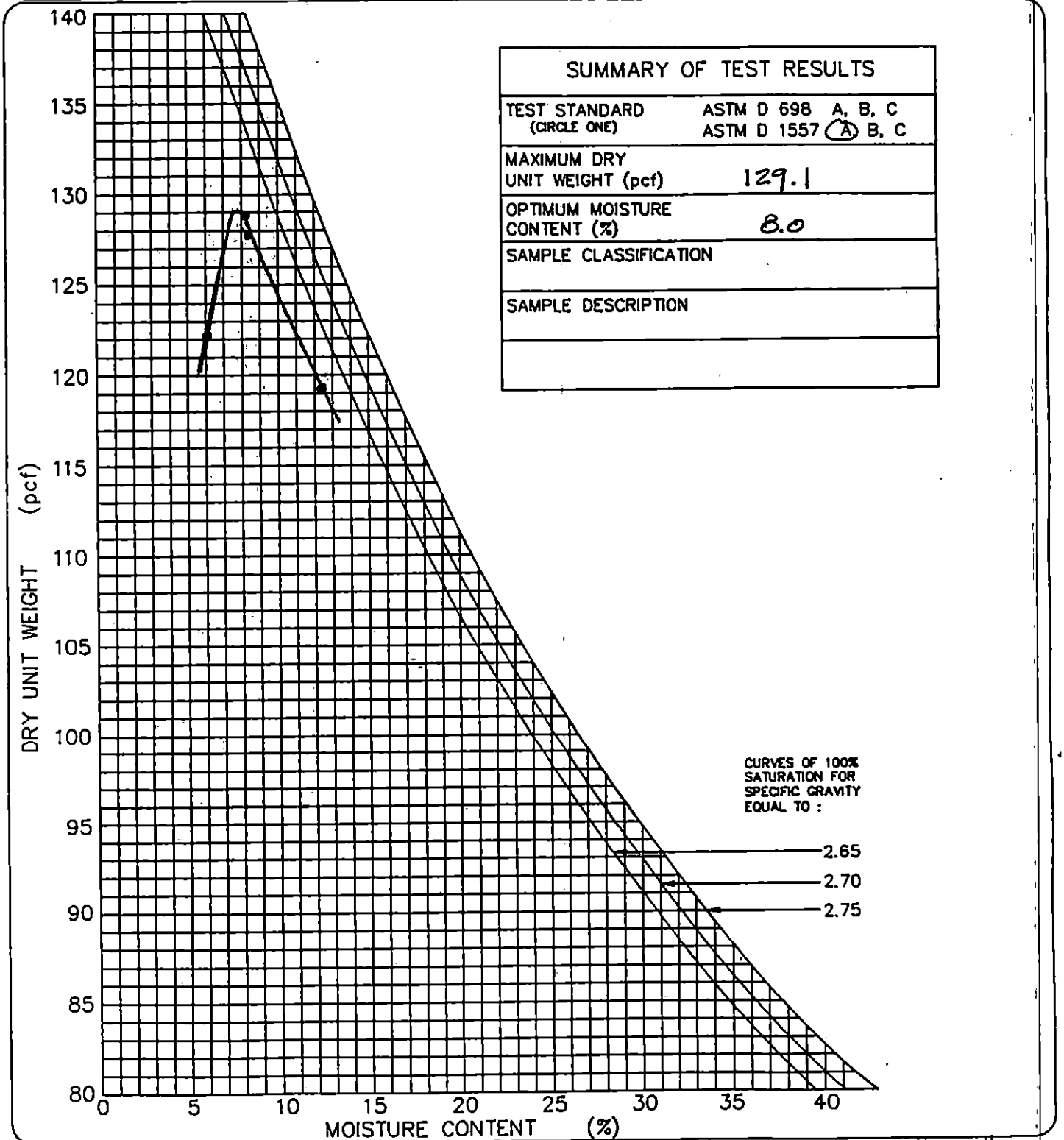
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: R. SCHLEIDER YARD MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-15 QA ID: JC



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 (%)	8.0
SAMPLE CLASSIFICATION	
SAMPLE DESCRIPTION	

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 FEB month 95 year

SOURCE: P. SCHLEIDER STOCKYARD MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-16 QA ID: JTC

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)	2161.7	1989.4
WT. OF TARE	(grams)	315.7	315.7
WT. OF DRY SAMPLE	(grams)	1846.0	1673.7

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
5/8"	16.0	50.12	2.7	97.3	
3/8"	9.5	146.45	7.9	92.1	
4	4.75	318.00	17.2	82.8	
10	2.0	514.45	27.8	72.2	
40	.0425	1196.26	64.8	35.2	≤ 75
100	.015	1621.79	87.8	12.2	
200	.075	1668.28	90.4	9.6	≤ 20
PAN		1670.50			

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

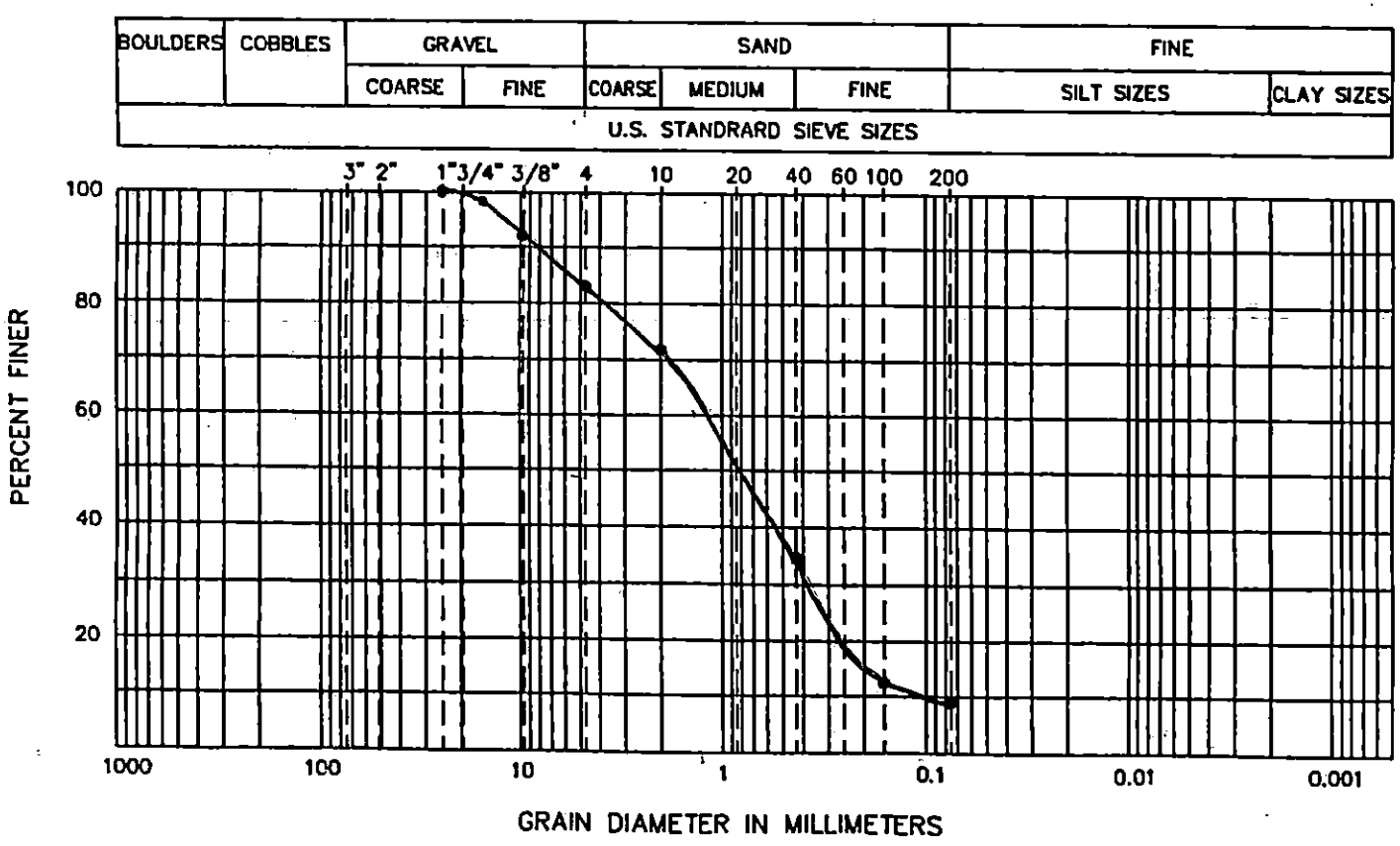
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: R. SCHLEIDER STOCKPILE — MATERIAL TYPE: COMMON FILL — SAMPLE NO.: C-16 — QA ID: JC



CURVE COEFFICIENTS

(C_U) ... 12.5 ... D_{60}/D_{10}

(C_C) ... 1.2 ... $D_{30}^2/(D_{60} \times D_{10})$

ATTERBERG LIMITS

(LL) .. NP ..

(PL) .. NP ..

(PI) .. NP ..

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	100.0
~~3/4-in.~~ 5/8	97.3
1/2-in.	–
3/8-in.	92.1
NO. 4	82.8
NO. 10	72.2
NO. 20	–
NO. 40	35.2
NO. 60	–
NO. 100	12.2
NO. 200	9.6

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND W/SILT & GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD A)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: R. SCHLEIDER STOCKYARD MATERIAL TYPE: COMMON FILL — SAMPLE NO.: C-16 QA ID: JJC

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/4-in. (19-mm) SIEVE IS LESS THAN 30% AND IF THE MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS LESS THAN 20%.
ALL MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS DISCARDED.
USE A 4-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 25 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)		6346	6192	6358	
B	WT. OF MOLD	(grams)		4330	4330	4330	4330
C	WT. OF SOIL = A - B	(grams)		2016	1862	2028	
D	WET UNIT WT.(1) = C X 0.066	(pcf)		133.1	122.9	133.8	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)		122.7	117.0	121.3	

NOTE: (1) IF CALIBRATED MOLD OF 1/30 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 = (30 / 453.6) = 0.066). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/30 ± 0.0005 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

ACTUAL - ASTM D2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.1	56.80	59.4	59.4	
G	WT. OF WET SOIL & TARE	(grams)	279.3	641.60	700.18	731.3	
H	WT. OF DRY SOIL & TARE	(grams)	259.1	595.82	669.80	668.5	
I	WT. OF WATER = G - H	(grams)	20.2	45.78	30.38	62.8	
J	WT. DRY SOIL = H - F	(grams)	251.0	539.02	~~609.40~~ 610.4 (SA)	609.1	
K	MOISTURE CONTENT = (I/J) X 100	(%)	8.0	8.5	5.0	10.3	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

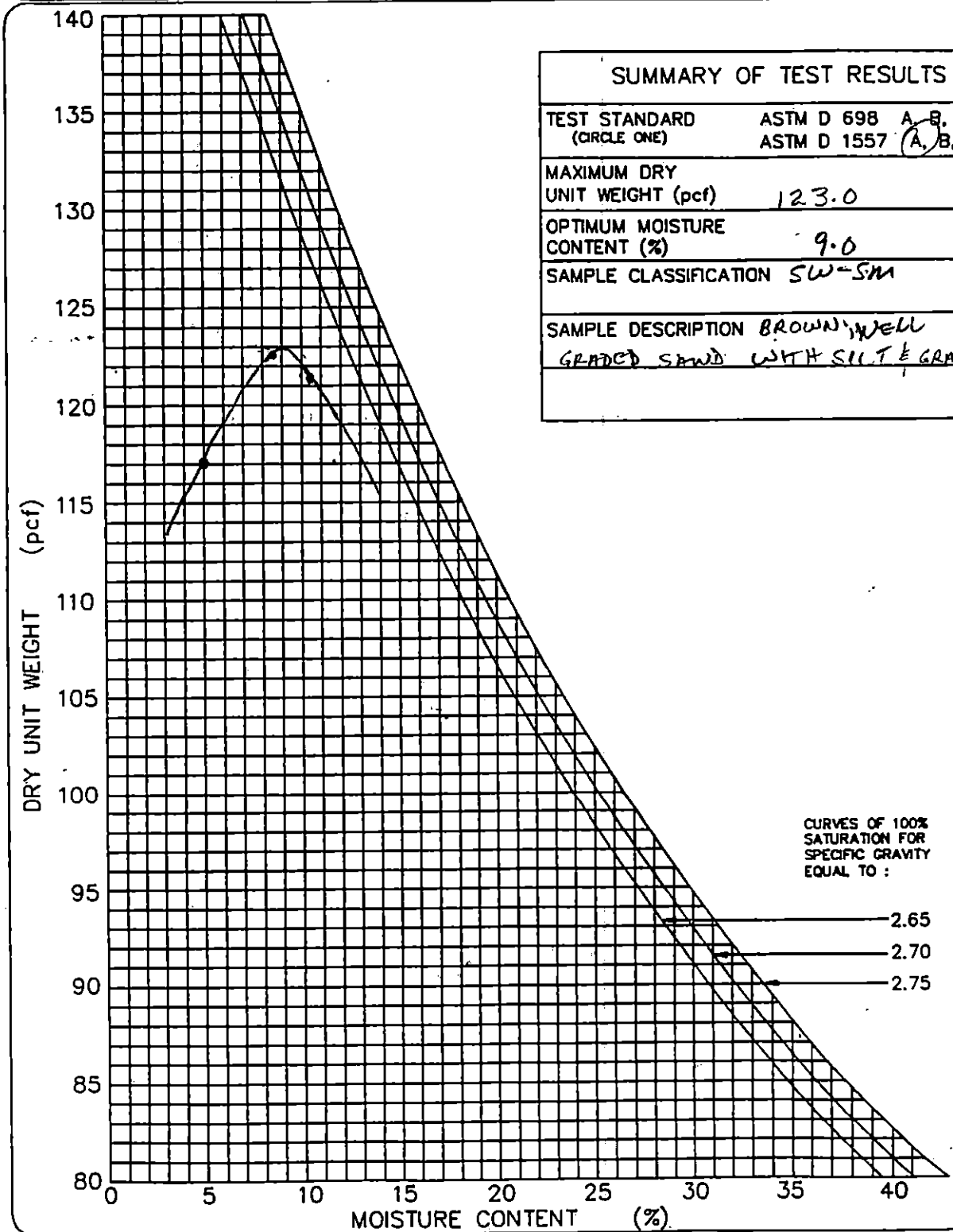
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: R. SCHLEIDER YARD MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-16 QA ID: JJC

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)	123.0
OPTIMUM MOISTURE CONTENT (%)	9.0
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	BROWN, WELL GRADED SAND WITH SILT & 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: 24 day Feb month 95 year

SOURCE: R. SCHLEIDER STOCKPILE MATERIAL TYPE: COMM. FILL SAMPLE NO.: C-17 QA ID: JJC

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)	2086.45	1,790.0
WT. OF TARE	(grams)	18.80	18.8
WT. OF DRY SAMPLE	(grams)	2067.65	1,771.2

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.4	0	0	100	(≤10")
5/8"	15.9	124.3	6.0	94.0	
3/8"	9.5	371.4	18.0	82.0	
#4	4.76	723.4	35.0	65.0	
#10	2.00	933.7	45.2	54.8	
#40	0.425	1,366.2	66.1	33.9	≤75%
#100	0.150	1,702.7	82.3	17.7	
#200	0.075	1,765.6	85.4	14.6	≤20%
PAN	—	1,771.8	85.7	—	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

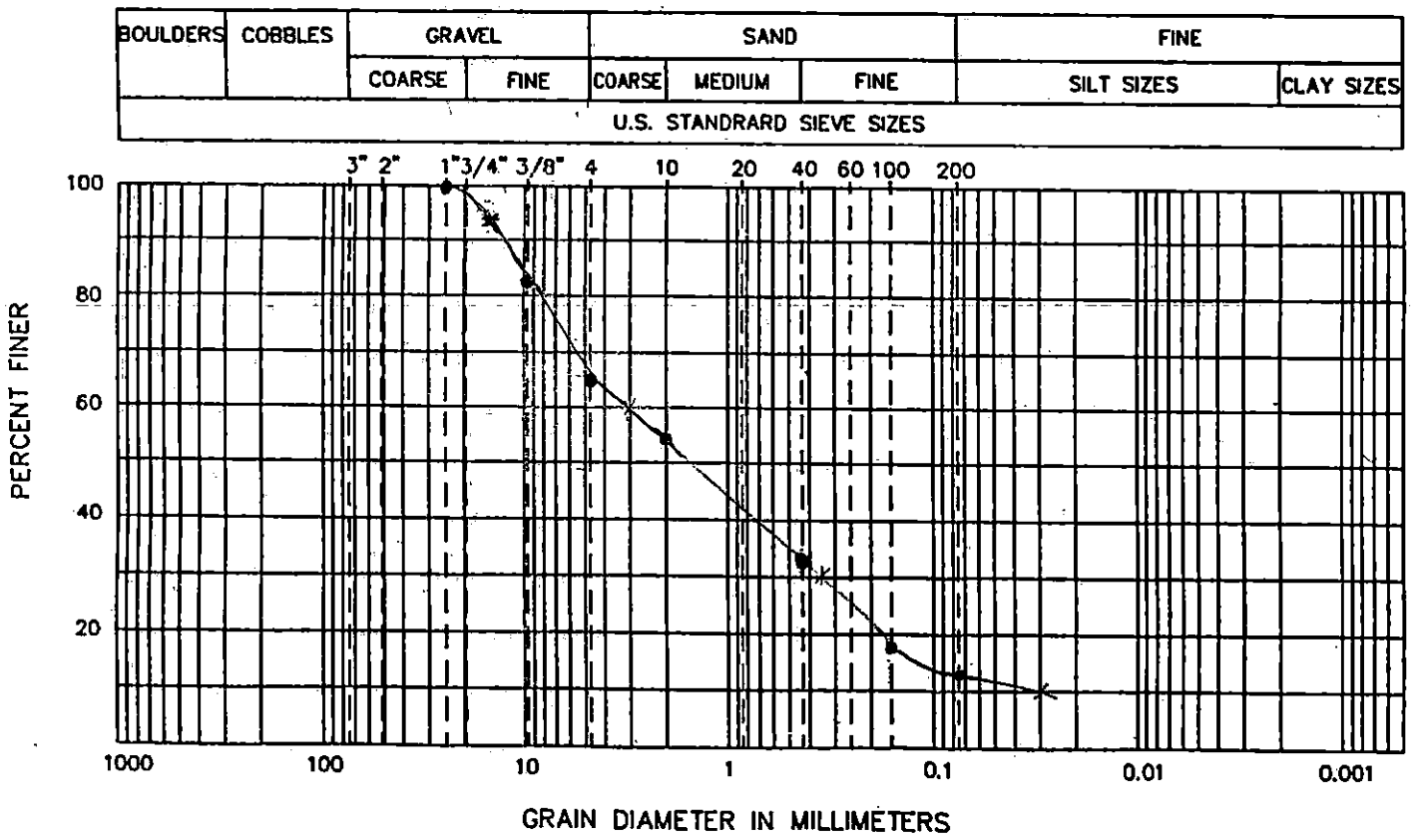
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: R. SCHLEIDER STOCKYARD — MATERIAL TYPE: COMMON FILL — SAMPLE NO.: C-17 — QA ID: JJC



CURVE COEFFICIENTS (1/10 LINEAR EXTRAPOL)

(C_u) 100 (No Dio Linear)

(C_c) No 1.4

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	100
~~3/4-in.~~ 5/8	94.0
1/2-in.	
3/8-in.	82.0
NO. 4	65.0
NO. 10	54.8
NO. 20	—
NO. 40	33.9
NO. 60	—
NO. 100	17.7
NO. 200	14.6

SOIL CLASSIFICATION (ASTM D 2487):)

Moisture Content Log

Source:	R. Schlieder Corp		Material:	Common Fill	
Sample #	Date Taken	Test Result(%)	Sample #	Date Taken	Test Result(%)
MC-46	7 MAR. '95	9.9	MC-69	05 MAY 95	9.4%
MC-47	8 MAR. '95	10.4	MC-70	08 MAY 95	9.7%
MC-48	9 MAR. '95	10.1	MC-71	09 MAY 95	10.0%
MC-49	9 MAR. 95	10.5	MC-72	10 MAY 95	10.3%
MC-50	23 MAR. '95	8.9	MC-73	18 MAY 95	10.3%
MC-51	27 March '95	8.5	MC-74	19 MAY 95	10.1%
MC-52	28 March '95	8.3	MC-75	26 JUNE '95	7.6%
MC-53	30 March '95	9.4			
MC-54	31 March '95	7.6			
MC-55	3 April '95	8.2			
MC-56	5 April 95	8.4			
MC-57	10 April '95	8.4			
MC-58	7 APRIL 95	8.2			
MC-59	10 APRIL 95	9.2			
MC-60	11 APRIL 95	10.6%			
MC-61	11 APRIL 95	9.4%			
MC-62	12 APRIL 95	10.4%			
MC-63	14 APRIL 95	10.4%			
MC-64	26 APRIL 95	10.4%			
MC-65	27 APRIL 95	10.0%			
MC-66	28 APRIL 95	10.3%			
MC-67	02 MAY '95	10.1%			
MC-68	04 MAY '95	11.0%			

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHODS A, B, AND C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 6 day 3 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-17 QA ID:

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS LESS THAN 20%.
ALL MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS DISCARDED.
USE OVERSIZE CORRECTION IF MORE THAN 5% IS DISCARDED ACCORDING TO ASTM D 4718.
USE A 4-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 25 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	6368.0	6,423.0	6,475.0	6,436.0	
B	WT. OF MOLD	(grams)	4330.0	4,330.0	4,330.0	4,330.0	
C	WT. OF SOIL = A - B	(grams)	2,038.0	2093.0	2,145.0	2,106.0	
D	WET UNIT WT.(1) = C X 0.066	(pcf)	134.5	138.1	141.6	139.0	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	126.9	128.6	130.3	125.6	

NOTE: (1) IF CALIBRATED MOLD OF 1/30 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 = (30 / 453.6) = 0.066). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/30 ± 0.0005 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.		D	A	C	C	
F	WT. OF TARE	(grams)	56.8	59.4	57.1	57.1	
G	WT. OF WET SOIL & TARE	(grams)	477.5	491.2	698.1	773.2	
H	WT. OF DRY SOIL & TARE	(grams)	453.8	461.5	647.0	703.8	
I	WT. OF WATER = G - H	(grams)	23.7	29.7	51.1	69.4	
J	WT. DRY SOIL = H - F	(grams)	397.0	402.1	589.9	646.7	
K	MOISTURE CONTENT = (I/J) X 100	(%)	6.0	7.4	8.7	10.7	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

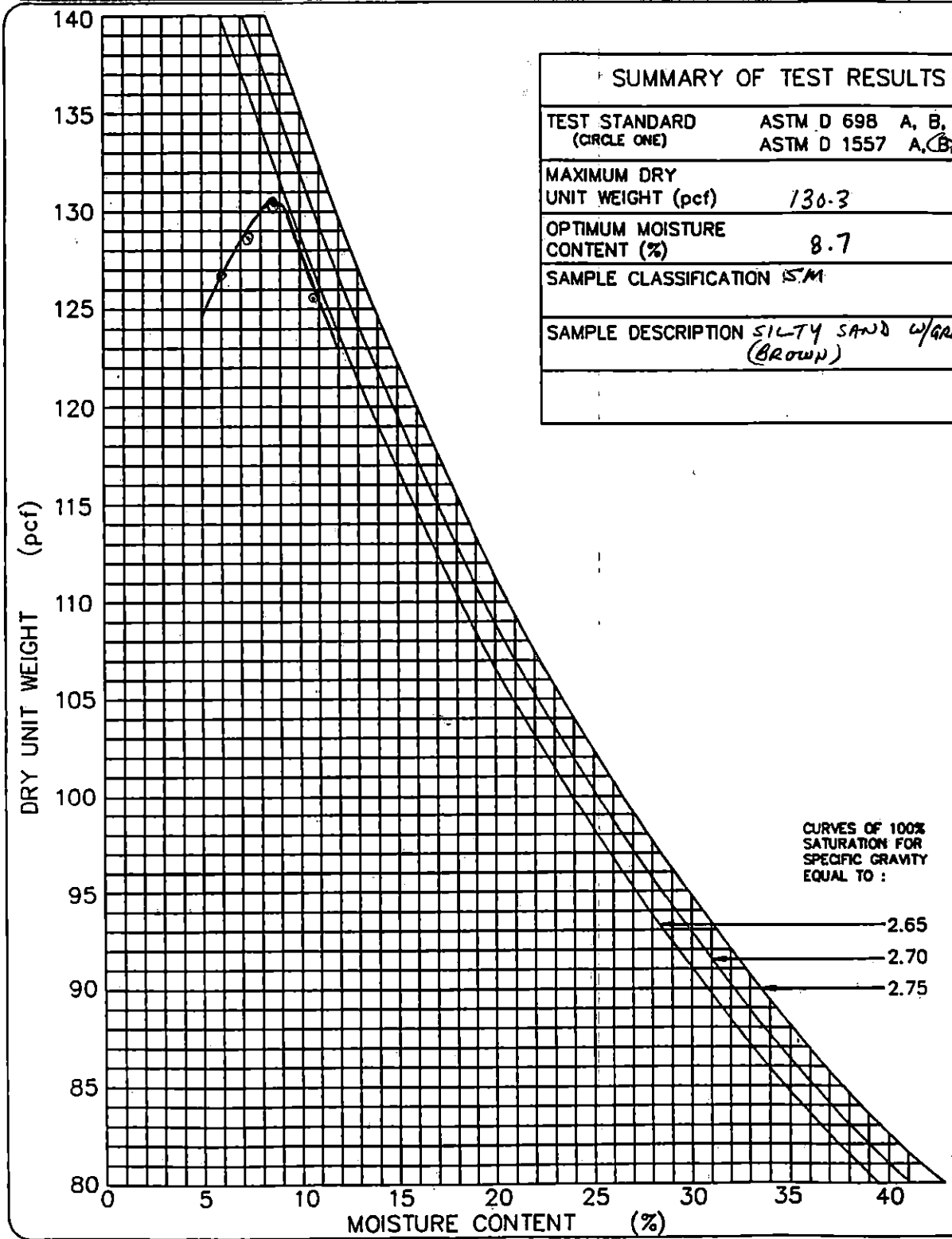
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 6 day 3 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-17 QA ID:



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 (%)	8.7
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND W/GRAVEL (BROWN)

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: 6 day 3 month 95 year

SOURCE: R. SCHNEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-18 QA ID:

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)	2,136.4	1,880.0
WT. OF TARE	(grams)	444.8	444.8
WT. OF DRY SAMPLE	(grams)	1,691.6	1,435.2

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
3/4"	19.0	11.0	0.65	99.35	(≤ 10")
3/8"	9.5	94.5	5.59	94.41	
#4	4.75	275.2	16.27	83.73	
#10	2.0	469.7	27.77	72.23	
#20	0.850	693.3	40.98	59.02	
#40	0.425	1002.7	59.28	40.72	≤ 75%
#100	0.150	1,362.8	80.56	19.44	
#200	0.075	1,432.1	84.66	15.34	≤ 20%

%FINER = 100 − Σ% RETAINED

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TOWN OF HUNTINGTON

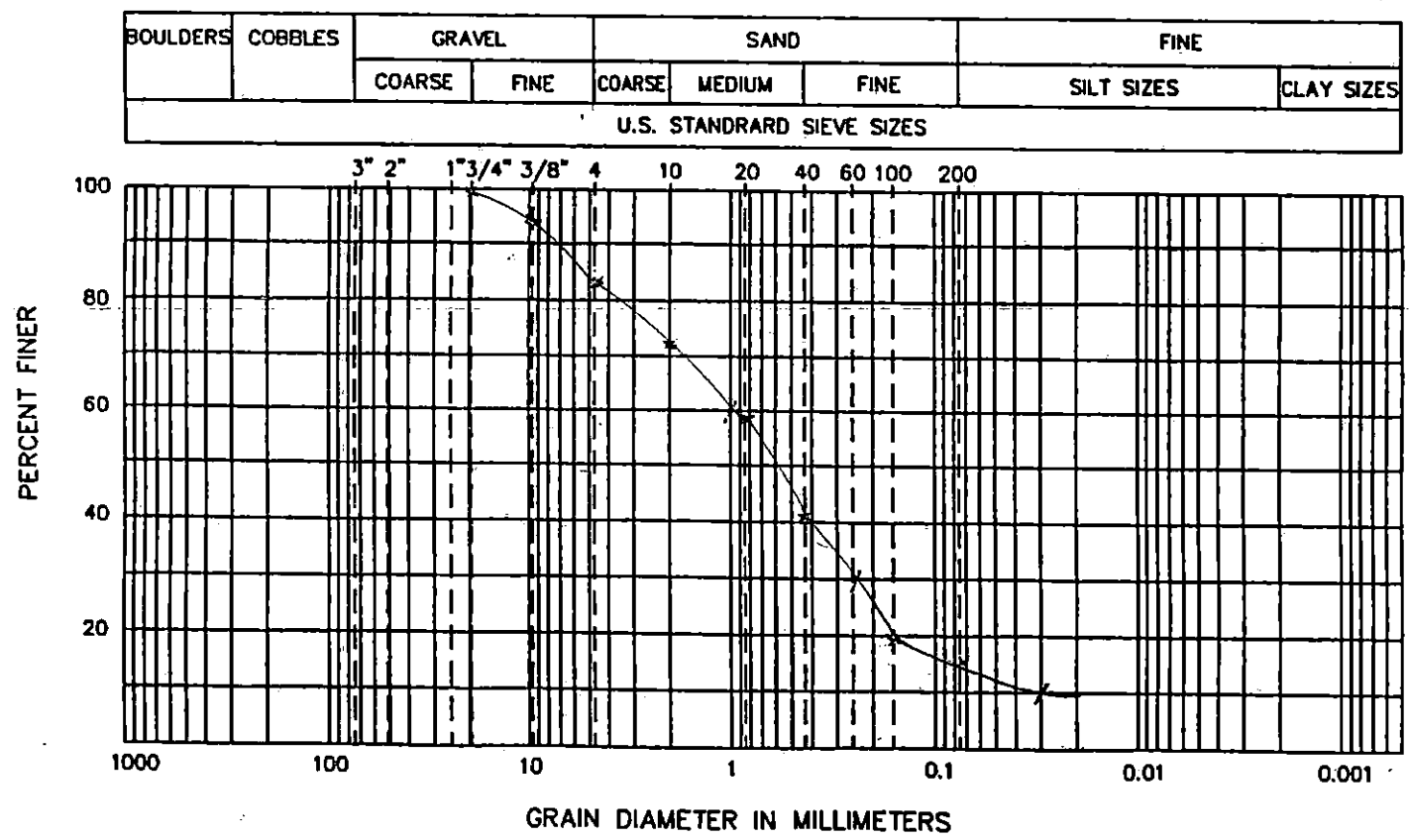
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 6 day 3 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-18 QA ID:



CURVE COEFFICIENTS

(C_u) 33.3

(C_c) 2.1

NOTE: D10 LINE WAS EXTRAPOLATED

ATTERBERG LIMITS

(LL)

(PL)

(PI)

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	99.35
1/2-in.	
3/8-in.	94.41
NO. 4	83.73
NO. 10	72.23
NO. 20	59.02
NO. 40	40.72
NO. 60	—
NO. 100	19.44
NO. 200	15.34

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

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHODS A, B, AND 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 March month 1995 year

SOURCE: R. Schlieder MATERIAL TYPE: Common Fill SAMPLE NO.: C-18 QA ID: GD

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS LESS THAN 20%.
ALL MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS DISCARDED.
USE OVERSIZE CORRECTION IF MORE THAN 5% IS DISCARDED ACCORDING TO ASTM D 4718.
USE A 4-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 25 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	6326	6434	6440	6394	
B	WT. OF MOLD	(grams)	4328	4328	4328	4328	
C	WT. OF SOIL = A - B	(grams)	1998	2106	2112	2066	
D	WET UNIT WT.(1) = C X 0.066	(pcf)	131.87	139.0	139.39	136.36	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	124.5	128.5	126.4	122.1	

NOTE: (1) IF CALIBRATED MOLD OF 1/30 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 = (30 / 453.6) = 0.066). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/30 ± 0.0005 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)	7.82	7.79	8.18	7.70	
G	WT. OF WET SOIL & TARE	(grams)	397.39	375.40	359.84	358.08	
H	WT. OF DRY SOIL & TARE	(grams)	375.56	347.59	327.07	321.57	
I	WT. OF WATER = G - H	(grams)	21.83	27.81	32.77	36.51	
J	WT. DRY SOIL = H - F	(grams)	367.74	339.80	318.89	313.87	
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.94	8.18	10.28	11.63	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

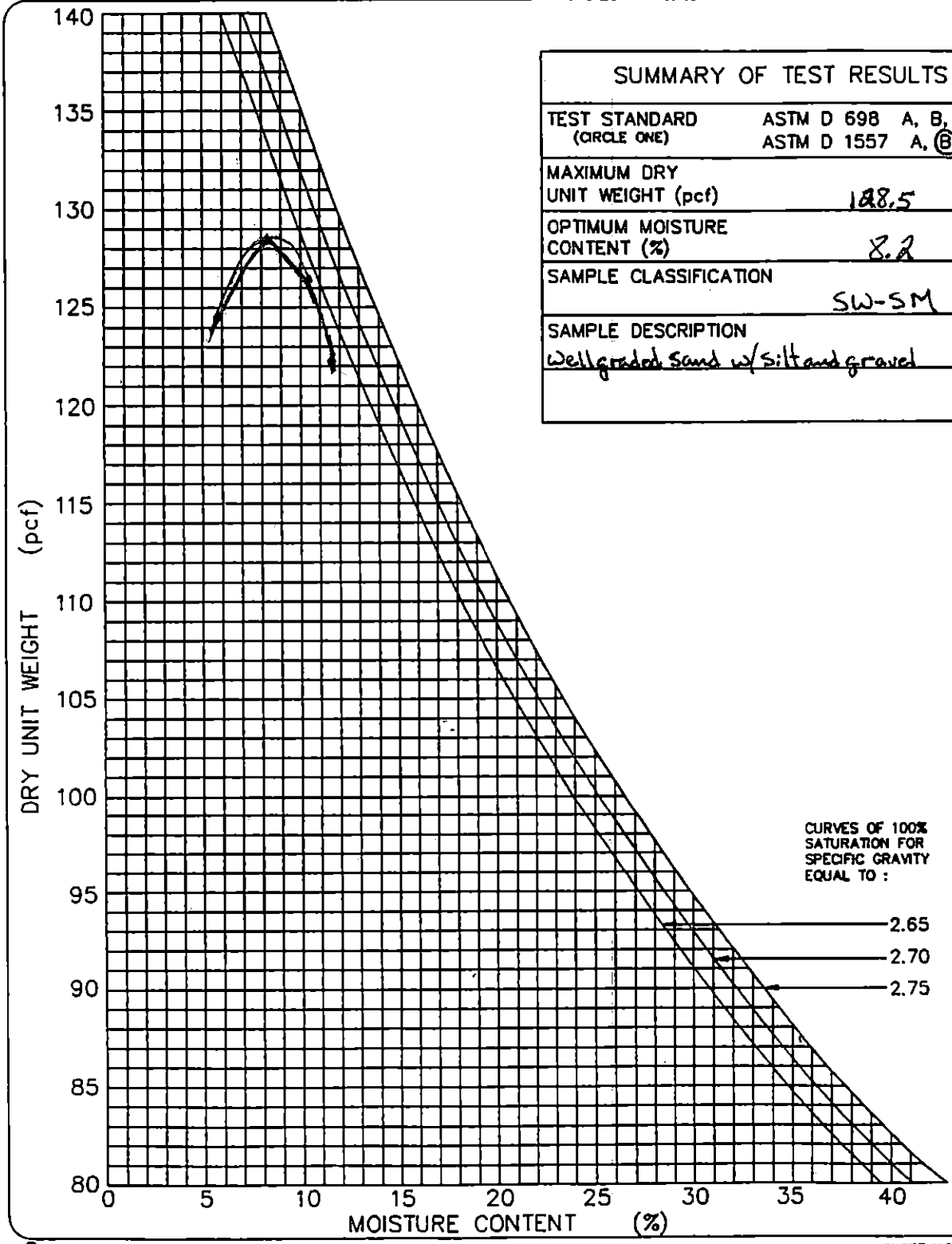
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 14 day March month 1995 year

SOURCE: R. Schlieder MATERIAL TYPE: Common Fill SAMPLE NO.: C-18 QA ID: GD



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 (%)	8.2
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	Well graded Sand w/ 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 March month 1995 year

SOURCE: R. Schlieder MATERIAL TYPE: Common Fill SAMPLE NO.: C-19 QA ID: 9D

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)	2731	2360
WT. OF TARE	(grams)	444.63	318.19
WT. OF DRY SAMPLE	(grams)	2286.37	2041.81

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
3/4	19.0	—	—	—	(≤ 16" stone)
3/8	9.5	143	6.25	93.75	
4	4.75	429.41	18.78	81.22	
10	2.0	708.03	30.97	69.03	
20	.850	1042.48	45.60	54.4	
40	.425	1503.22	65.75	34.25	≤ 75 %
60	.250	1830.21	80.05	19.95	
80	.180	1932.44	84.52	15.48	
100	.150	1985.45	86.84	13.16	
200	.075	2031.00	88.83	11.17	≤ 20 %

%FINER = 100 − Σ% RETAINED

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

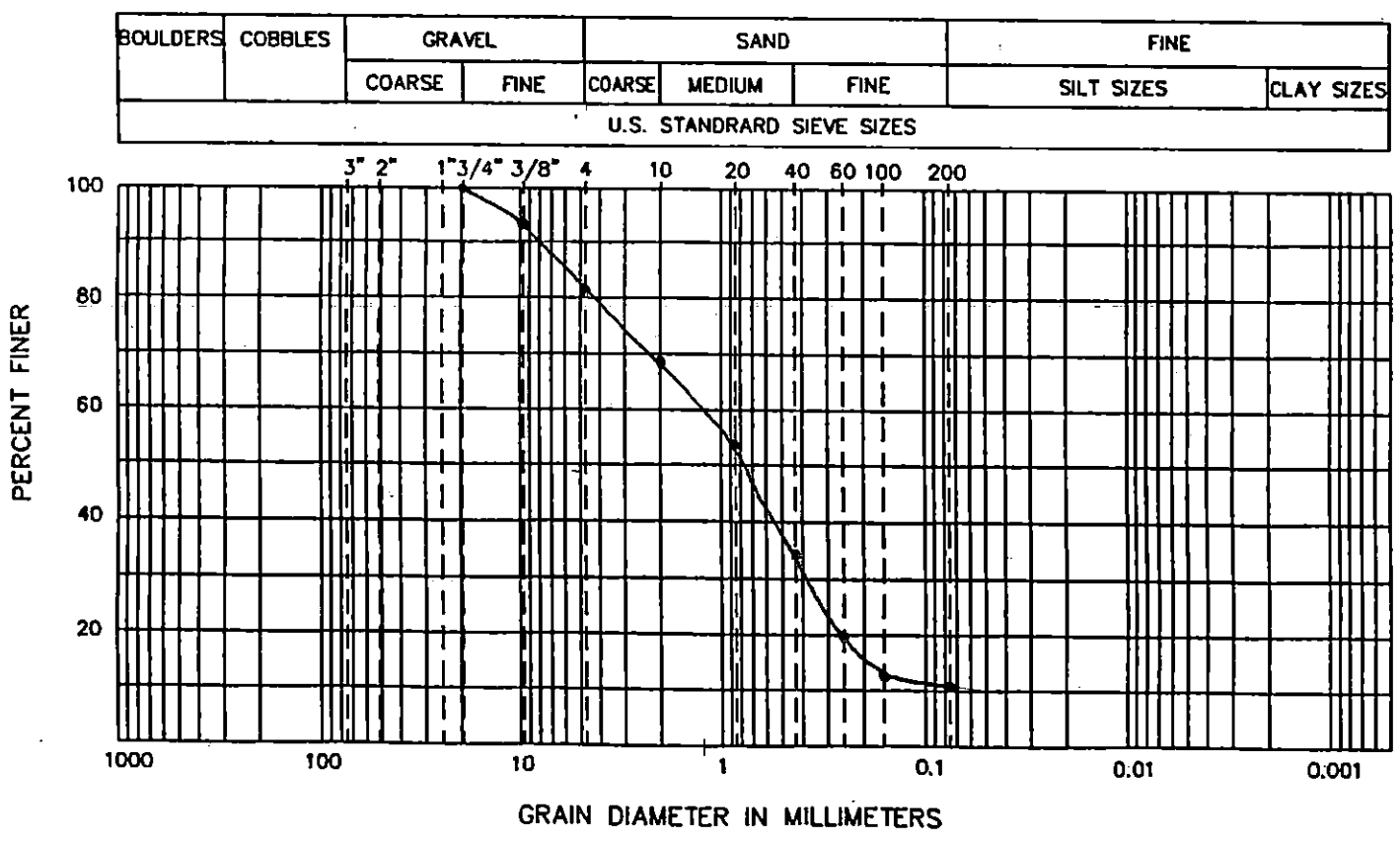
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 14 day March month 1995 year

SOURCE: R. Schlieder MATERIAL TYPE: Common Fill SAMPLE NO.: C-19 QA ID: GD



CURVE COEFFICIENTS

(C_u) 26

(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.	—
1/2-in.	—
3/8-in.	93.75
NO. 4	81.22
NO. 10	109.03
NO. 20	54.4
NO. 40	35.25
NO. 60	19.95
NO. 100	13.16
NO. 200	11.17

SOIL CLASSIFICATION (ASTM D 2487): SW-SM Well graded sand w/silt + gravel.

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHODS A, B, AND 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 March month 1995 year

SOURCE: R. Schlieder MATERIAL TYPE: Common Fill SAMPLE NO.: C-19 QA ID: QD

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS LESS THAN 20%.
ALL MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS DISCARDED.
USE OVERSIZE CORRECTION IF MORE THAN 5% IS DISCARDED ACCORDING TO ASTM D 4718.
USE A 4-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 25 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	6326	6427	6449	6405	
B	WT. OF MOLD	(grams)	4328	4328	4328	4328	
C	WT. OF SOIL = A - B	(grams)	1998	2099	2121	2077	
D	WET UNIT WT.(1) = C X 0.066	(pcf)	131.87	138.53	140.0	137.1	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	125.0	128.7	127.6	123.0	

NOTE: (1) IF CALIBRATED MOLD OF 1/30 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 = (30 / 453.6) = 0.066). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/30 ± 0.0005 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	8.18	7.79	7.82	
G	WT. OF WET SOIL & TARE	(grams)	402.73	406.61	421.52	406.18	
H	WT. OF DRY SOIL & TARE	(grams)	382.12	378.27	384.85	365.32	
I	WT. OF WATER = G - H	(grams)	20.16	28.34	36.67	40.86	
J	WT. DRY SOIL = H - F	(grams)	374.42	370.09	377.06	357.5	
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.5	7.66	9.73	11.43	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

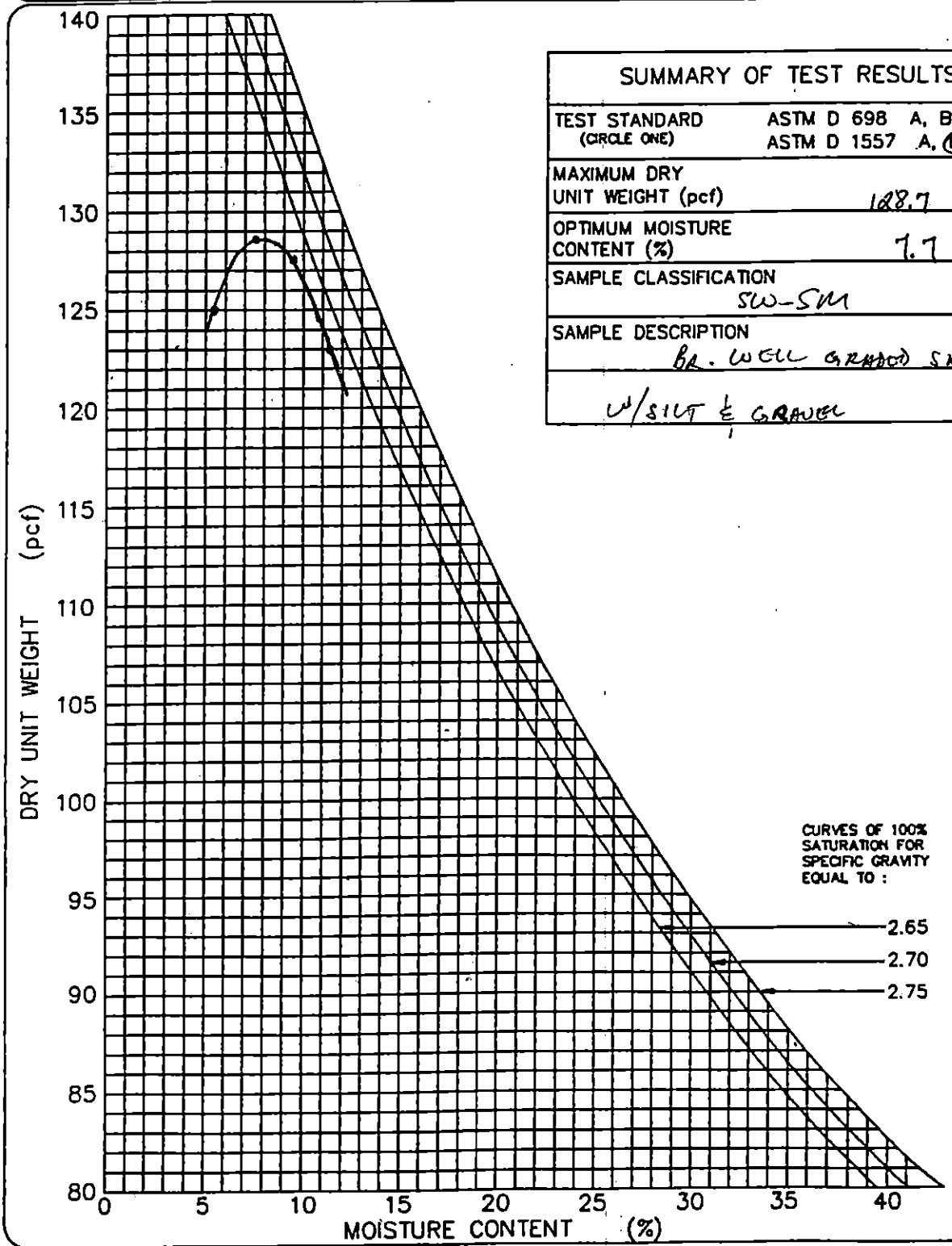
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 15 day March month 1995 year

SOURCE: R. Schlieder MATERIAL TYPE: Common Fill SAMPLE NO.: C-19 QA ID: GD



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 (%)	7.7
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	BR. WELL GRADED SAND W/SILT & 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 March month 1995 year

SOURCE: R. Schlieder MATERIAL TYPE: Common Fill SAMPLE NO.: C-20 QA ID: QD

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)	3657	3153
WT. OF TARE	(grams)	444.63	319.05
WT. OF DRY SAMPLE	(grams)	3212.37	2833.95

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
3/4	19.0	30.93	.96	99.04	
1/2	12.7	150.19	4.68	95.32	
3/8	9.5	284.52	8.86	91.14	
4	4.75	749.35	23.33	76.67	
10	2.0	1125.51	35.04	64.96	
20	.85	1530.61	47.65	52.35	
40	.475	2128.18	66.25	33.75	≤ 75
60	.25	2560.42	79.71	20.29	
100	.15	2757.77	85.85	14.15	
200	.075	2821.40	87.83	12.17	≤ 20

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

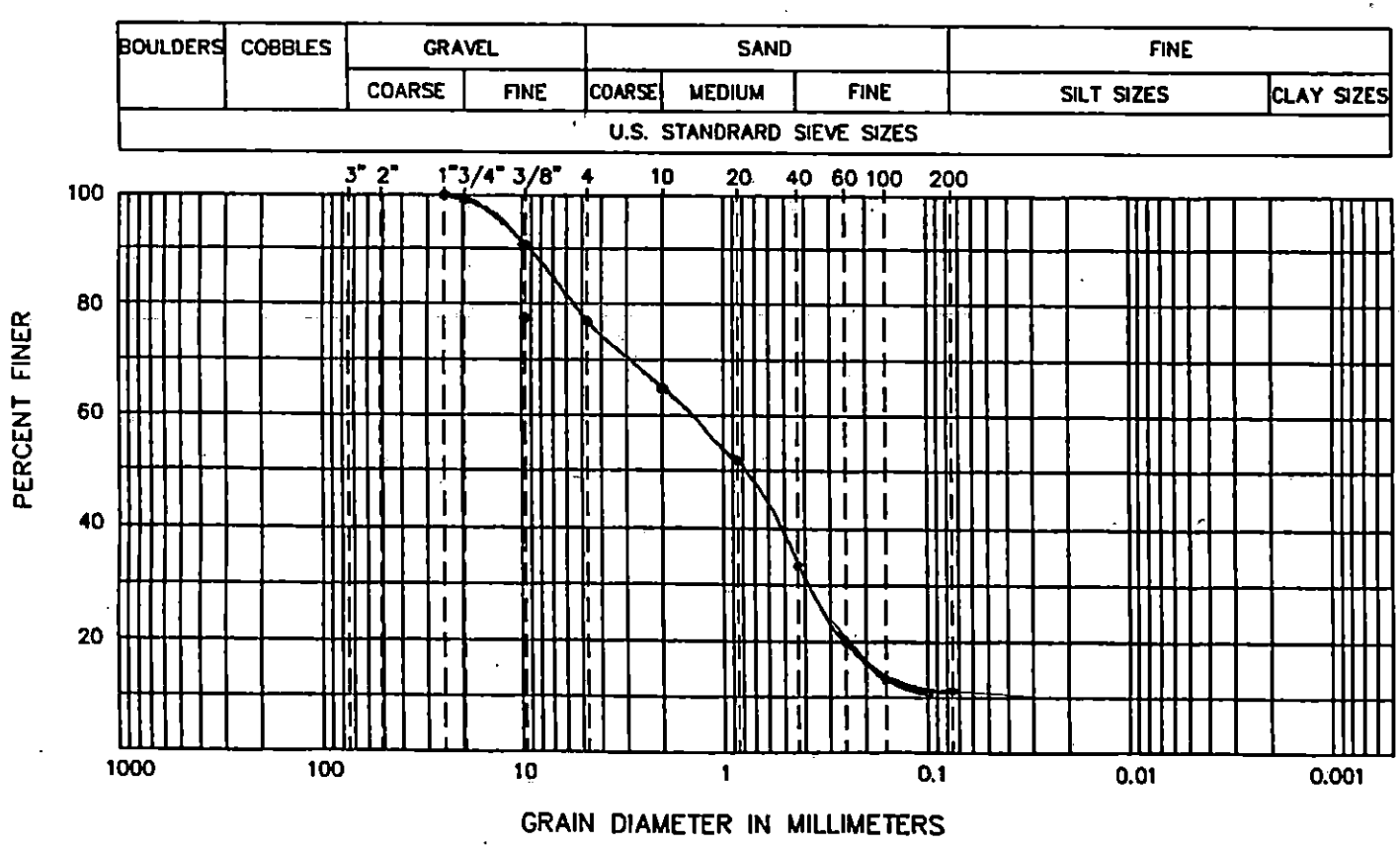
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day March month 1995 year

SOURCE: R. Schlieder MATERIAL TYPE: Common Fill SAMPLE NO.: C-20 QA ID: GD



CURVE COEFFICIENTS

(C_u) 50

(C_c) [redacted]3.2

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.	99.04
1/2-in.	95.32
3/8-in.	91.14
NO. 4	76.67
NO. 10	64.96
NO. 20	52.35
NO. 40	33.75
NO. 60	20.29
NO. 100	14.15
NO. 200	12.17

SOIL CLASSIFICATION (ASTM D 2487): SW-SM Well-graded sand w/ 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: 21 day March month 1995 year

SOURCE: R. Schlieder MATERIAL TYPE: Common Fill SAMPLE NO.: C-20 QA ID: GD

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)	10,493	10,736	10,644		
B	WT. OF MOLD	(grams)	5,850	5,850	5,850		
C	WT. OF SOIL = A - B	(grams)	4,643	4,886	4,794		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	134.65	141.69	139.03		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	126.97	130.99	126.32		

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)	7.82	8.18	7.7		
G	WT. OF WET SOIL & TARE	(grams)	320.71	346.01	370.87		
H	WT. OF DRY SOIL & TARE	(grams)	302.88	320.49	337.69		
I	WT. OF WATER = G - H	(grams)	17.83	25.52	33.18		
J	WT. DRY SOIL = H - F	(grams)	295.06	312.31	329.99		
K	MOISTURE CONTENT = (I/J) X 100	(%)	6.04	8.17	10.05		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

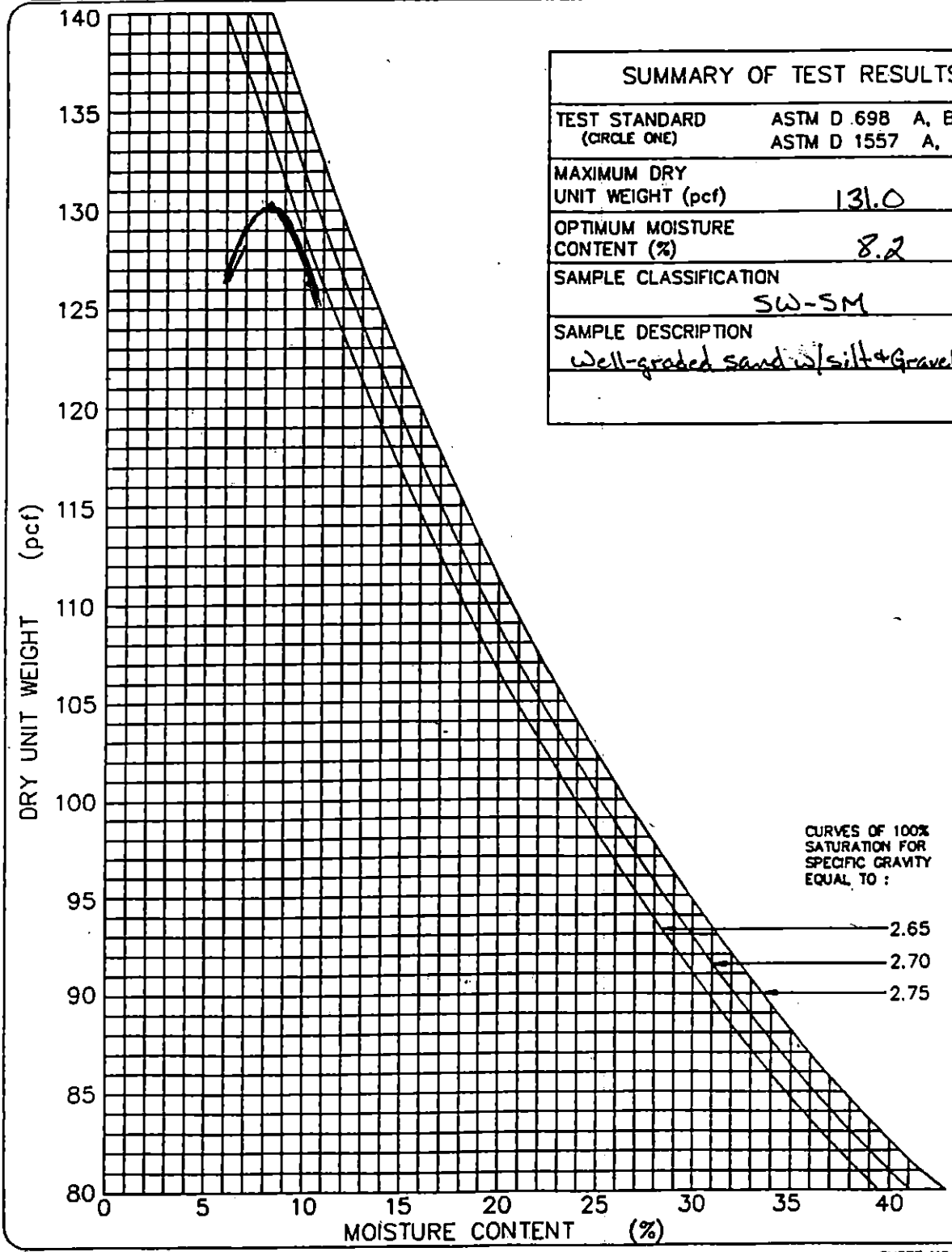
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 16 day March month 1995 year

SOURCE: R. Schlieder MATERIAL TYPE: Common Fill SAMPLE NO.: C-20 QA ID: GD



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 (%)	8.2
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	Well-graded sand w/silt & 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 March month 1995 year

SOURCE: Syosset (Onsite) MATERIAL TYPE: Common Fill SAMPLE NO.: C-21 QA ID: GD

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)	4546	3805
WT. OF TARE	(grams)	444.63	319.05
WT. OF DRY SAMPLE	(grams)	4101.37	3489.95

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.4	715.37	17.44	82.56	
3/4"	19.0	915.37	22.32	77.68	
1/2"	12.7	1055.37	25.73	74.27	
3/8"	9.5	1146.37	27.95	72.05	
4	4.75	1419.37	34.61	65.39	
10	2.0	1744.37	42.53	57.47	
20	0.850	2111.37	51.48	48.52	
40	0.425	2666.37	65.01	34.99	≤75
60	0.250	3122.37	76.13	23.87	
100	0.150	3366.37	82.08	17.92	
200	0075	3489.37	85.07	14.93	≤20

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

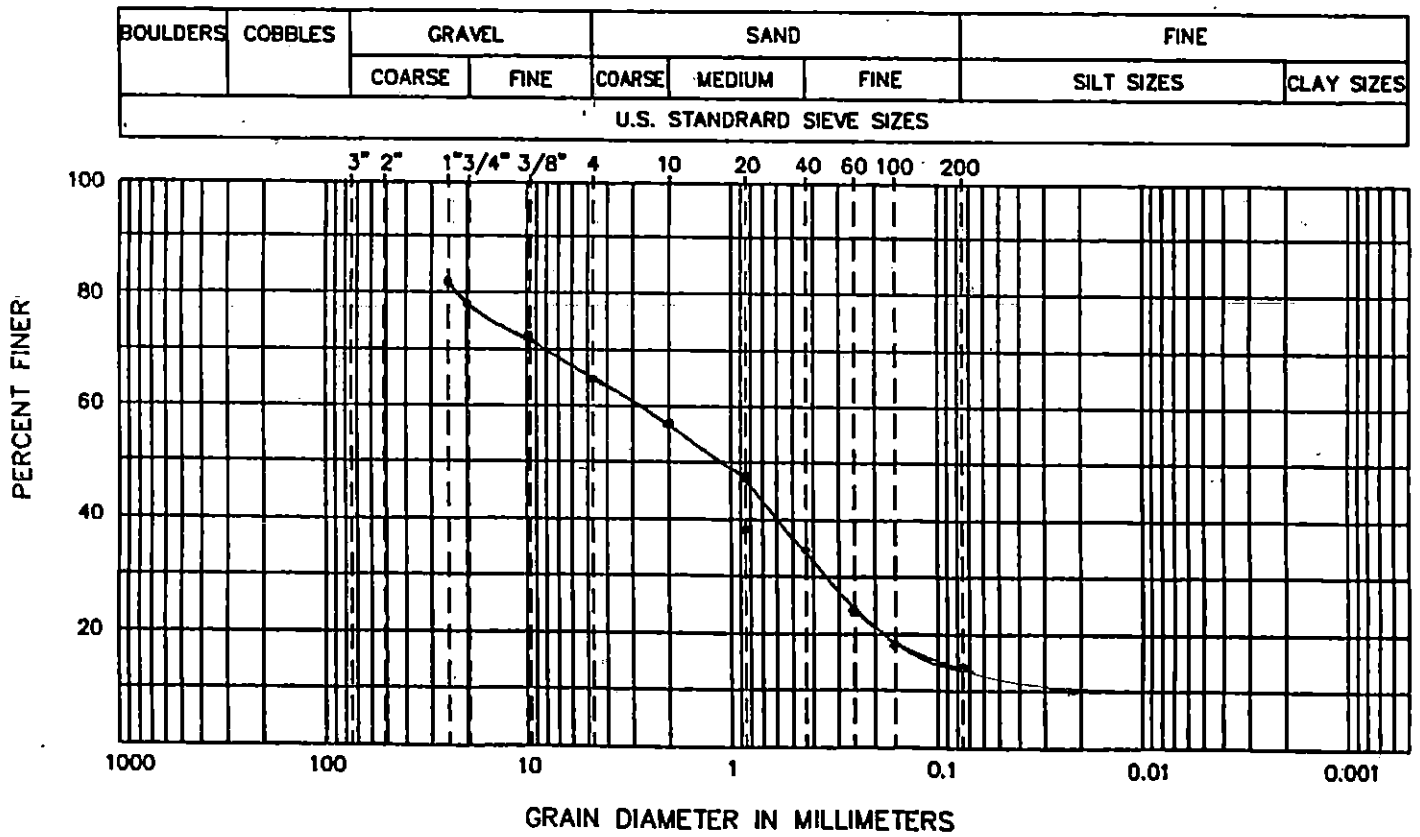
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 20 day March month 1995 year

SOURCE: Syosset (on-site) MATERIAL TYPE: Common Fill SAMPLE NO.: C-21 QA ID: GD



CURVE COEFFICIENTS

(C_u) ..... 140 .....

(C_c) ..... 2.21 .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	82.56
3/4-in.	77.68
1/2-in.	74.21
3/8-in.	72.05
NO. 4	65.39
NO. 10	57.47
NO. 20	48.52
NO. 40	34.99
NO. 60	23.87
NO. 100	17.92
NO. 200	14.93

SOIL CLASSIFICATION (ASTM D 2487): SM Well-graded sand w/silt+Gravel

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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: G03700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 11 day 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-23 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)	1028.7	910.7
WT. OF TARE	(grams)	57.3	57.3
WT. OF DRY SAMPLE	(grams)	971.4	853.4

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
3/4	19.0	—	—	100%	
1/2	12.5	15.9	1.6%	98.4	
3/8	9.5	52.4	5.4%	94.6	
4	4.750	167.7	17.3%	82.7	
10	2.0	299.4	30.8%	69.2	
20	0.850	442.3	45.5	54.5	
40	0.425	659.8	67.9	32.1	≤ 75
60	0.250	787.1	81.0	19.0	
100	0.150	832.4	85.7	14.3	
200	0.075	846.3	87.1	12.9	≤ 20

%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

PROJECT NO.: GQ3700 TASK NO.: 01

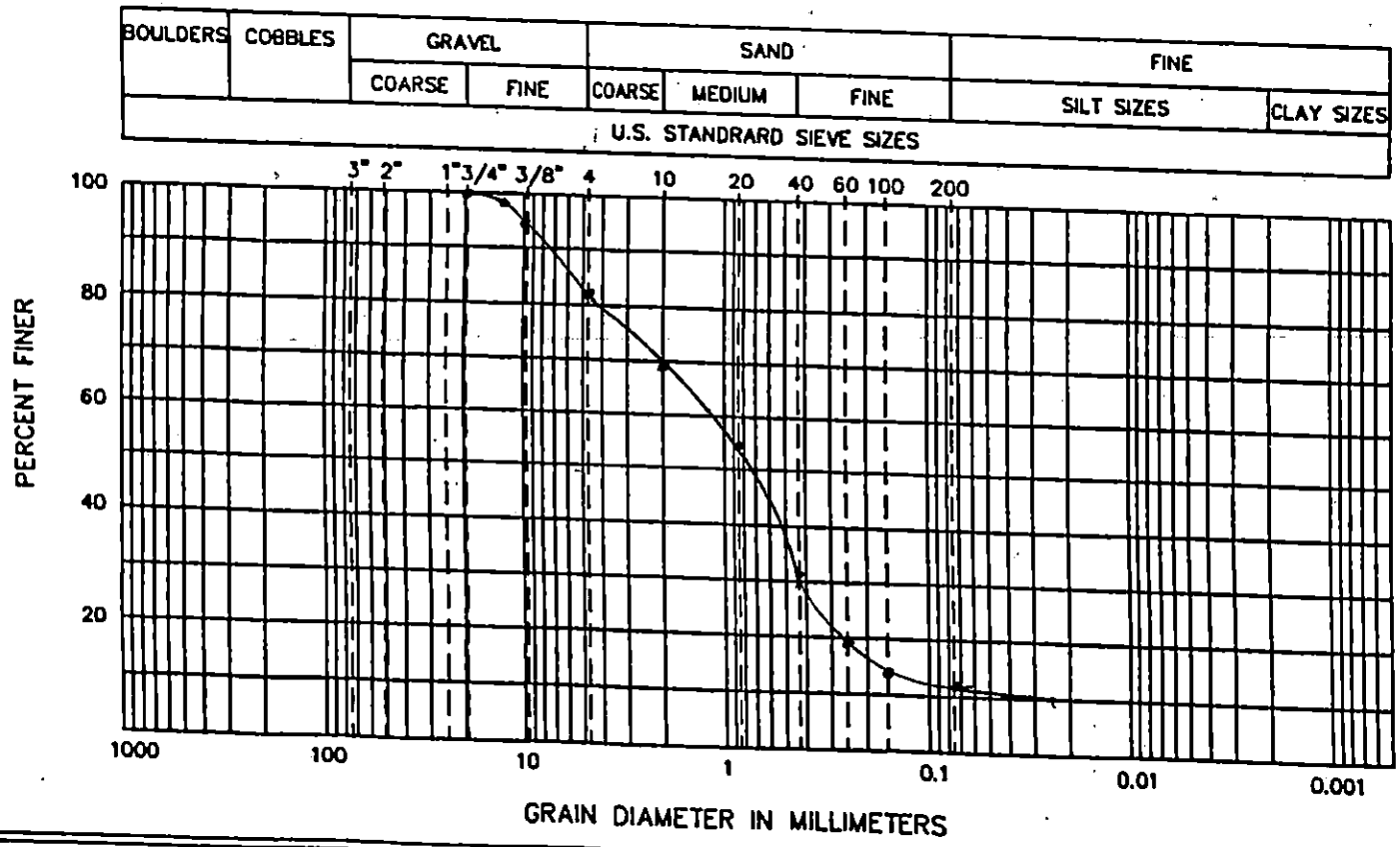
SOURCE: R. SCHLEIDER

MATERIAL TYPE: COMMON FILL

DATE: 11 day 04 month 95 year

SAMPLE NO.: C-23

QA ID: DJR



CURVE COEFFICIENTS

(C_u) . . . 48

(C_c) . . . 6.5

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.	98.4
3/8-in.	94.6
NO. 4	82.7
NO. 10	69.7
NO. 20	54.5
NO. 40	32.1
NO. 60	19.0
NO. 100	14.3
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 METHODS A, B, AND 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 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-23 QA ID: D/R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS LESS THAN 20%.
ALL MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS DISCARDED.
USE OVERSIZE CORRECTION IF MORE THAN 5% IS DISCARDED ACCORDING TO ASTM D 4718.
USE A 4-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 25 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	6324	6355	6385	6375	
B	WT. OF MOLD	(grams)	4330	4330	4330	4330	
C	WT. OF SOIL = A - B	(grams)	1994	2025	2055	2045	
D	WET UNIT WT.(1) = C X 0.066	(pcf)	131.6	133.7	135.6	135.0	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.0	123.8	123.3	120.8	

NOTE: (1) IF CALIBRATED MOLD OF 1/30 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 = (30 / 453.6) = 0.066). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/30 ± 0.0005 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	8.2	
G	WT. OF WET SOIL & TARE	(grams)	501.8	574.5	541.1	604.1	
H	WT. OF DRY SOIL & TARE	(grams)	469.6	532.5	492.7	541.1	
I	WT. OF WATER = G - H	(grams)	32.2	42.0	48.4	63.0	
J	WT. DRY SOIL = H - F	(grams)	461.6	524.5	484.8	532.9	
K	MOISTURE CONTENT = (I/J) X 100	(%)	7.0%	8.0%	10.0%	11.8%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

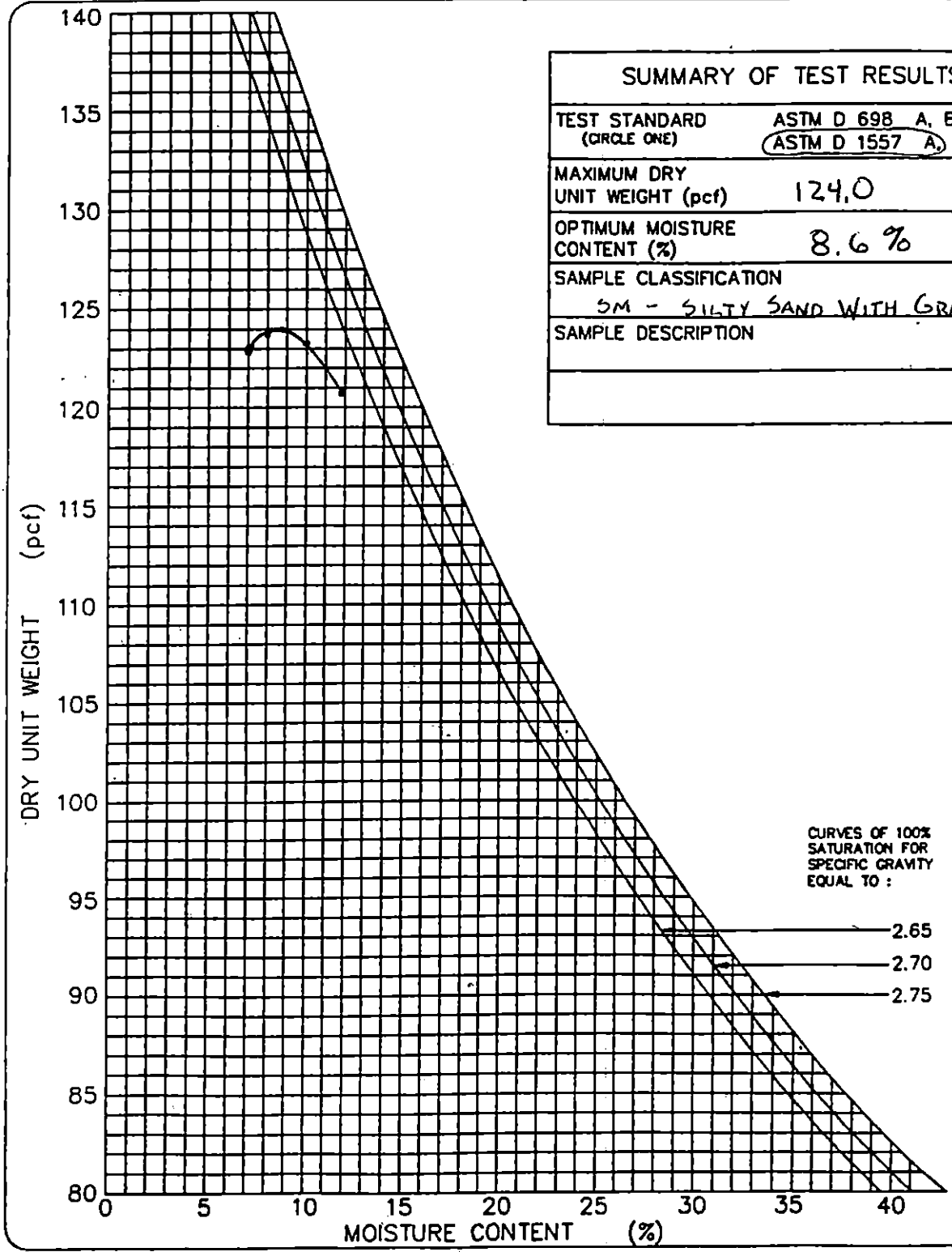
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 11 day 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-23 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)	124.0
OPTIMUM MOISTURE CONTENT (%)	8.6 %
SAMPLE CLASSIFICATION	SM - SILTY SAND WITH GRAVEL
SAMPLE DESCRIPTION	



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 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-24 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)	1385.9	1233.5
WT. OF TARE	(grams)	56.8	56.8
WT. OF DRY SAMPLE	(grams)	1329.1	1176.7

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
3/4	19.0 mm	0.0	0.0%	100.0%	
1/2	12.5	39.7	3.0%	97.0%	
3/8	9.5	72.3	5.4%	94.6%	
4	4.75	191.8	14.4%	85.6%	
10	2.0	329.6	24.8%	75.2%	
20	0.850	511.5	38.4%	61.6%	
40	0.425	817.6	61.5%	38.5%	
60	0.250	1049.7	79.0%	21.0%	
100	0.150	1145.4	86.2%	13.8%	
200	0.075	1174.3	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

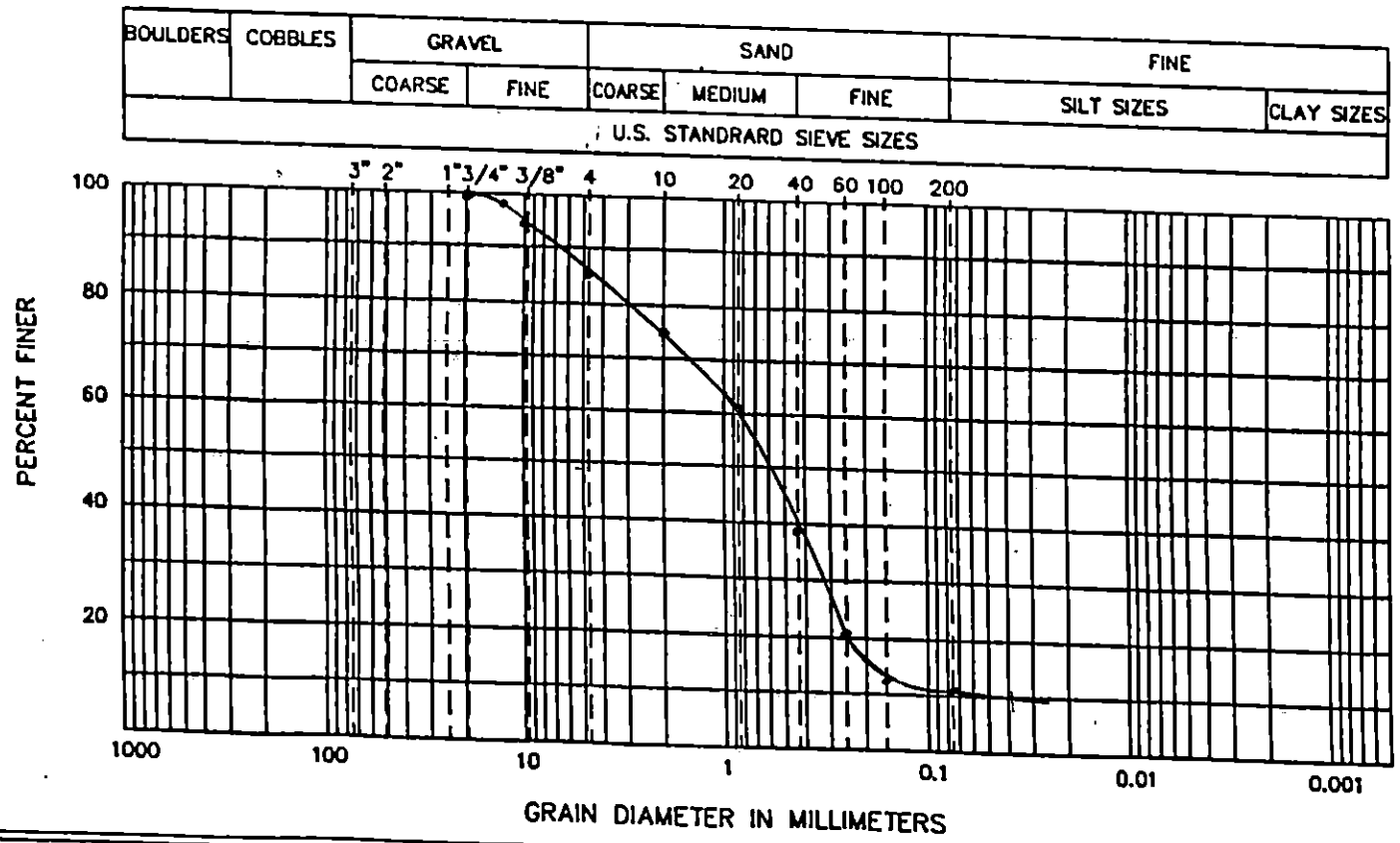
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

PROJECT NO.: GQ3700 TASK NO.: 01

SOURCE: R. SCHLEIDER MATERIAL TYPE: COMMON FILL

DATE: 14 day 04 month 95 year

SAMPLE NO.: C-24 QA ID: 21R



CURVE COEFFICIENTS

(C_u) 21.8

(C_c) 3.2

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.	97.0
3/8-in.	94.6
NO. 4	85.6
NO. 10	75.2
NO. 20	61.6
NO. 40	38.5
NO. 60	21.0
NO. 100	13.8
NO. 200	11.6

SOIL CLASSIFICATION (ASTM D 2487): SP-SM POORLY GRADED SAND WITH SILT

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHODS (A,) B, AND 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 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-24 QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS LESS THAN 20%.
ALL MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS DISCARDED.
USE OVERSIZE CORRECTION IF MORE THAN 5% IS DISCARDED ACCORDING TO ASTM D 4718.
USE A 4-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 25 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	6293	6344	6395	6370	
B	WT. OF MOLD	(grams)	4330	4330	4330	4330	
C	WT. OF SOIL = A - B	(grams)	1963	2014	2065	2040	
D	WET UNIT WT.(1) = C X 0.066	(pcf)	129.6	132.9	136.3	134.6	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.0	123.8	122.9	120.1	

NOTE: (1) IF CALIBRATED MOLD OF 1/30 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 = (30 / 453.6) = 0.066). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/30 ± 0.0005 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	8.2	
G	WT. OF WET SOIL & TARE	(grams)	527.2	506.7	522.9	627.3	
H	WT. OF DRY SOIL & TARE	(grams)	500.7	472.3	472.2	560.7	
I	WT. OF WATER = G - H	(grams)	26.5	34.4	50.7	66.6	
J	WT. DRY SOIL = H - F	(grams)	492.6	464.3	464.3	552.5	
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.4%	7.4%	10.9%	12.1%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

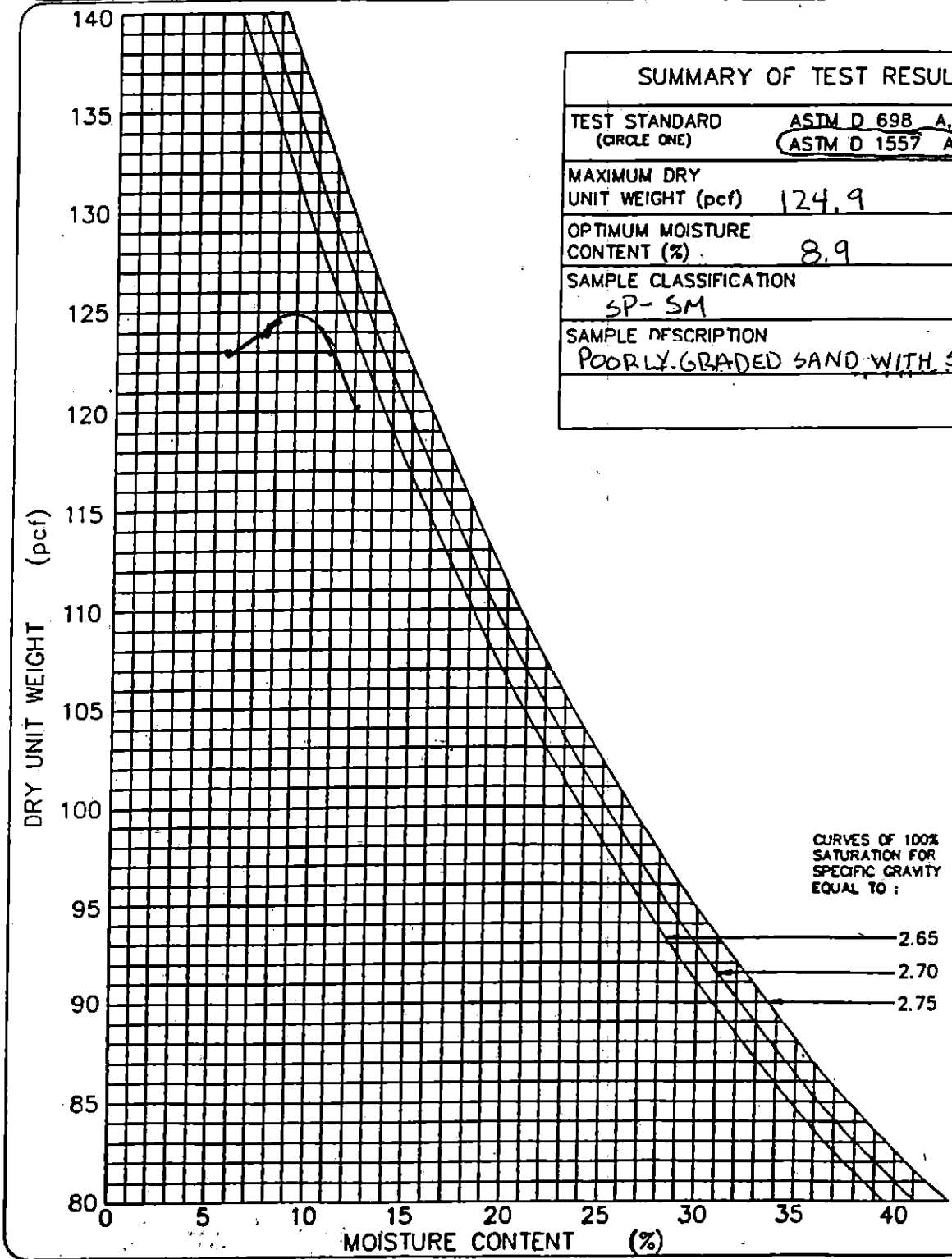
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 14 day 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-24 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)	124.9
OPTIMUM MOISTURE CONTENT (%)	8.9
SAMPLE CLASSIFICATION	SP-SM
SAMPLE DESCRIPTION	POORLY-GRADED SAND WITH SILT



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: 09 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-25 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)	2238.2	2077.4
WT. OF TARE	(grams)	56.8	57.0
WT. OF DRY SAMPLE	(grams)	2181.4	2020.4

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0	
1½"	37.5	0.0	0.0	100.0	
1"	25.0	0.0	0.0	100.0	
¾"	19.0	0.0	0.0	100.0	
½"	12.5	95.7	4.4	95.6	
⅜"	9.5	154.9	7.1	92.9	
4	4.750	426.7	19.6	80.4	
10	2.0	710.9	32.6	67.4	
20	0.850	1094.4	50.2	49.8	
40	0.425	1537.5	70.5	29.5	
60	0.250	1830.0	83.9	16.1	
100	0.150	1991.3	91.3	8.7	
200	0.075	2000.1	91.7	8.3	

%FINER = 100 − Σ % RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

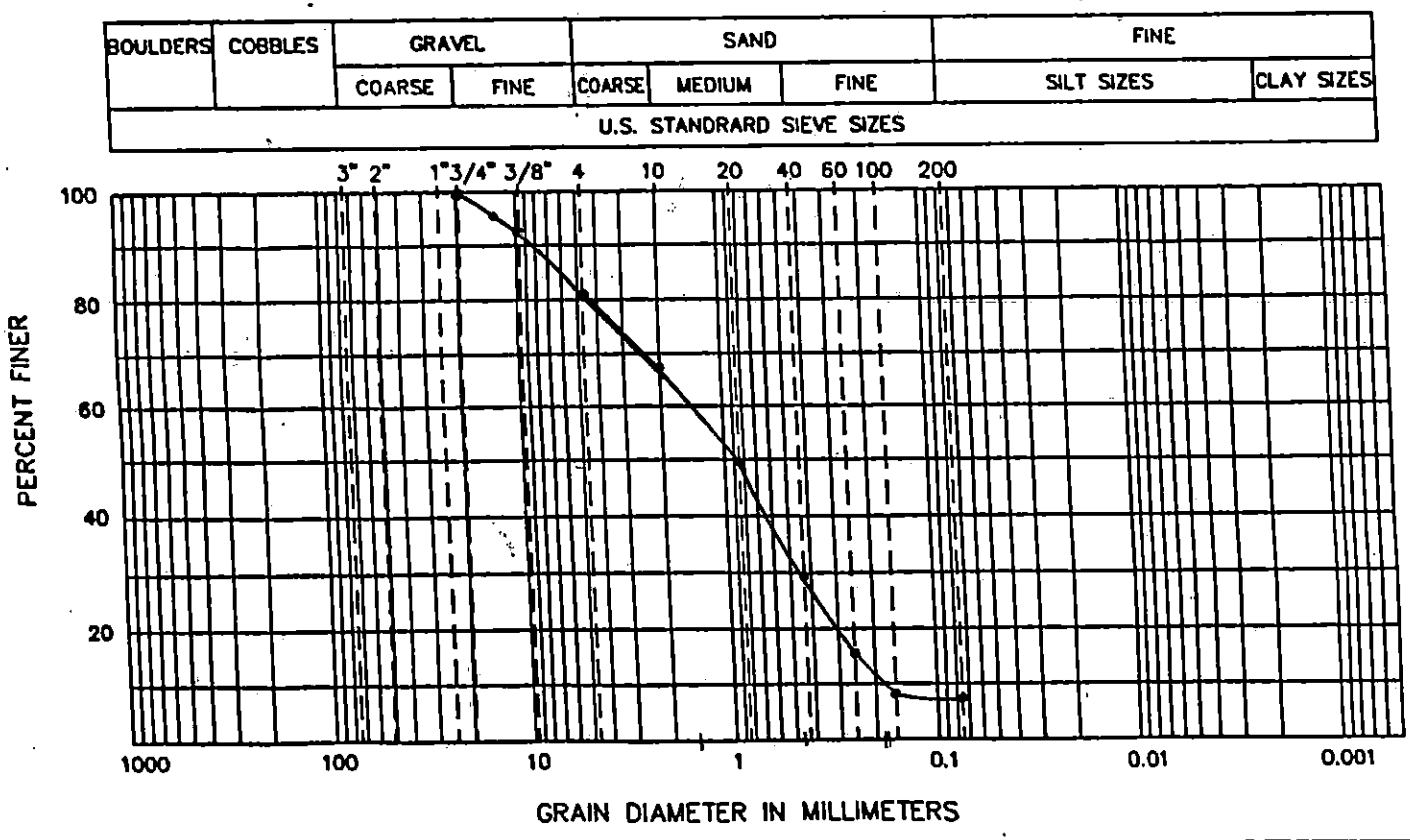
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 09 day 05 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: Common Fill — SAMPLE NO.: C-25 — QA ID: 21R



CURVE COEFFICIENTS

(C_u) 9.1

(C_c) 0.9

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.	95.6
3/8-in.	92.9
NO. 4	80.4
NO. 10	67.4
NO. 20	49.8
NO. 40	29.3
NO. 60	16.1
NO. 100	8.7
NO. 200	8.3

SOIL CLASSIFICATION (ASTM D 2487): SP-SM - Poorly 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 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-25 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)	10455	10770	10632		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4610	4925	4787		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	133.7	142.8	138.8		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	126.5	133.1	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)	8.4	8.4	8.3		
G	WT. OF WET SOIL & TARE	(grams)	629.0	586.0	619.1		
H	WT. OF DRY SOIL & TARE	(grams)	595.4	546.7	558.4		
I	WT. OF WATER = G - H	(grams)	33.6	39.3	60.7		
J	WT. DRY SOIL = H - F	(grams)	587.0	538.3	550.1		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.7%	7.3%	11.0%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

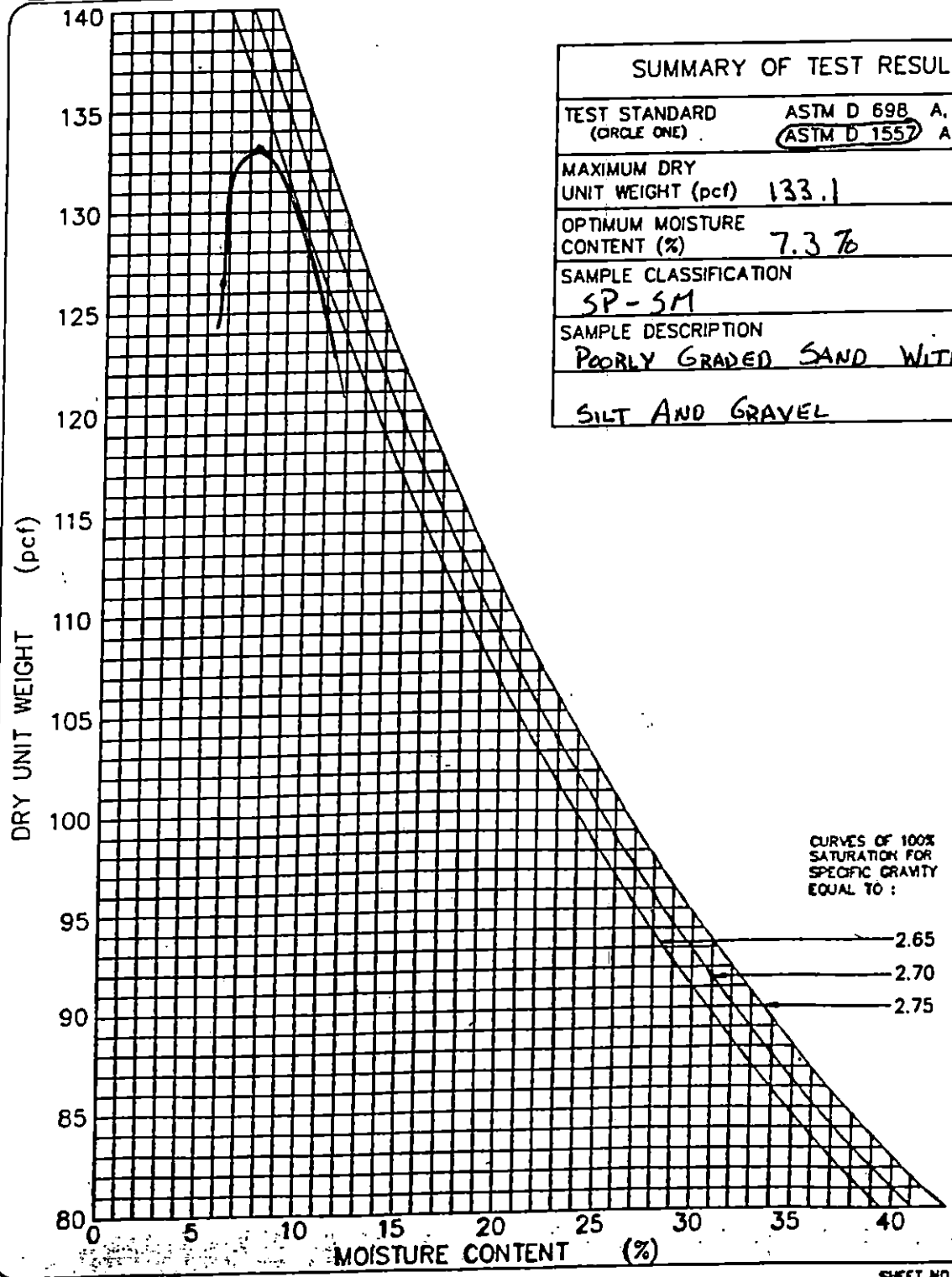
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 09 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: COMMON FILL SAMPLE NO.: C-25 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)	133.1
OPTIMUM MOISTURE CONTENT (%)	7.3 %
SAMPLE CLASSIFICATION	SP-SM
SAMPLE DESCRIPTION	POORLY GRADED SAND WITH SILT AND GRAVEL



SUB APPENDIX H–3

MOISTURE-DENSITY

TEST RESULTS

Moisture Content Log

Source:	R. Schlieder Corp		Material:	Common Fill	
Sample #	Date Taken	Test Result(%)	Sample #	Date Taken	Test Result(%)
MC-1	12-30-94	7.8 %	MC-23	2-6-95	8.4
MC-2A	1-4-95	7.4 %	MC-24	2-7-95	10.0
MC-2B	1-4-95	7.7 %	MC-25	2-8-95	9.3
MC-3	1-5-95	8.0 %	MC-26	2-9-95	10.2
MC-4	1-5-95	8.8 %	MC-27	2-10-95	9.6
MC-5	1-6-95	8.7 %	MC-28	2-13-95	9.8
MC-6	1-6-95	7.7 %	MC-29	2-14-95	10.0
MC-7	1-9-95	8.9 %	MC-30	2-15-95	8.5
MC-8	1-9-95	5.3 %	MC-31	2-16-95	8.3
MC-9	1-11-95	10.5 %	MC-32	2-17-95	9.4
MC-10	1-12-95	9.6 %	MC-33	2-20-95	8.7
MC-11	1-12-95	9.1 %	MC-34	2-20-95	8.9
MC-12	1-23-95	9.6 %	MC-35	2-21-95	9.7
MC-13	1-23-95	9.4 %	MC-36	2-22-95	10.1
MC-14	1-24-95	10.0 %	MC-37	2-22-95	10.0
MC-15	1-24-95	10.5 %	MC-38	2-23-95	10.1
MC-16	1-25-95	9.3 %	MC-39	2-23-95	10.0
MC-17	1-26-95	8.6	MC-40	2-27-95	10.3
MC-18	1-27-95	9.3	MC-41	3-1-95	11.0
MC-19	1-30-95	9.1	MC-42	3-2-95	10.1
MC-20	1-31-95	8.2	MC-43	3-3-95	9.0
MC-21	2-01-95	9.4	MC-44	3-6-95	10.9
MC-22	2-2-95	13.8	MC-45	3-6-95	11.5

Moisture Content Log

Source:	R. Schlieder Corp		Material:	Common Fill	
Sample #	Date Taken	Test Result(%)	Sample #	Date Taken	Test Result(%)
MC-46	7 MAR. '95	9.9	MC-69	05 MAY 95	9.4%
MC-47	8 MAR. '95	10.4	MC-70	08 MAY 95	9.7%
MC-48	9 MAR. '95	10.1	MC-71	09 MAY 95	10.0%
MC-49	9 MAR. 95	10.5	MC-72	10 MAY 95	10.3%
MC-50	23 MAR. '95	8.9	MC-73	18 MAY 95	10.3%
MC-51	27 March '95	8.5	MC-74	19 MAY 95	10.1%
MC-52	28 March '95	8.3	MC-75	26 JUNE '95	7.6%
MC-53	30 March '95	9.4			
MC-54	31 March '95	7.6			
MC-55	3 April '95	8.2			
MC-56	5 April 95	8.4			
MC-57	6 April '95	8.4			
MC-58	7 APRIL 95	8.2			
MC-59	10 APRIL 95	9.2			
MC-60	11 APRIL 95	10.6%			
MC-61	11 APRIL 95	9.4%			
MC-62	12 APRIL 95	10.4%			
MC-63	14 APRIL 95	10.4%			
MC-64	26 APRIL 95	10.4%			
MC-65	27 APRIL 95	10.0%			
MC-66	28 APRIL 95	10.3%			
MC-67	02 MAY '95	10.1%			
MC-68	04 MAY '95	11.0%			

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 12 month 94 year

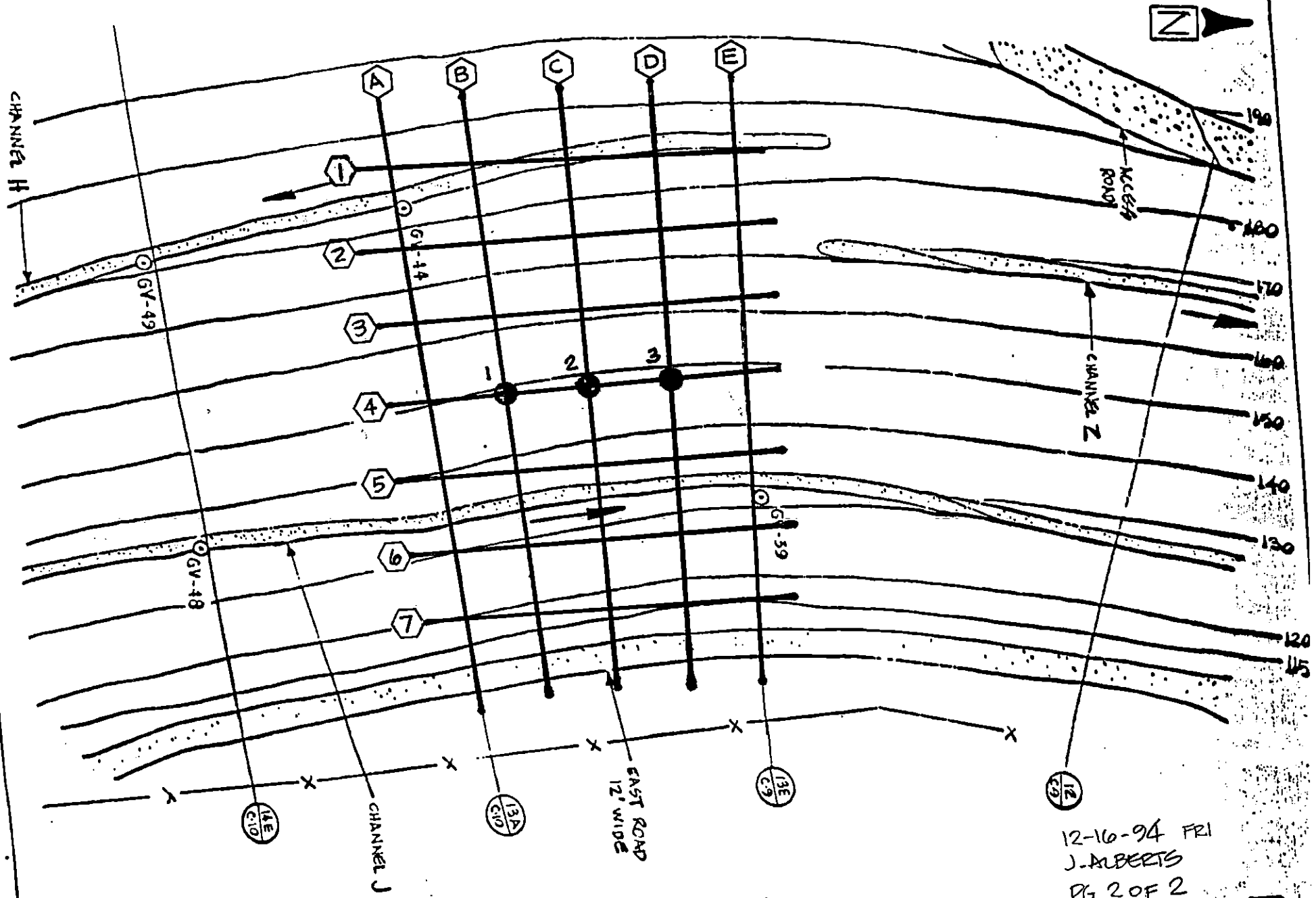
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHLEIDER CONST MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED): 12"
(CIRCLE ONE)

% COMPACTION: ≥ 90% MOISTURE RANGE: — ASTM D 698: A B C / (ASTM D 1557: (A) B C —
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 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		
1	B-4 TEST PAD / 1ST LIFT	12"	11.3	115.0	7.8	127.9	118.6	100+	*	✓		(QC) / 1.7
2	C-4 " "	12"	11.3	115.0	8.4	125.4	115.6	100+	*	✓		(QC) / 1.7
3	D-4 " "	12"	11.3	115.0	7.6	129.3	120.2	100+	*	✓		(QC) / 1.7
* NOTE: THESE TESTS PASSED COMPACTION BUT THEN VERIFIED LIFT THICKNESS WAS: B-4 (36" LIFT), C-4 (22"), D-4 (21"). FOUND LOWER PORTION OF LIFT TO BE VERY LOOSE & INSTRUCTED JDP TO RE-GRADE THE TEST PAD AREA IN MAY 12" LIFTS - THESE TESTS ABOVE ARE VOID!												



12-16-94 FRI
J. ALBERTS
PG 2 OF 2

TEST PAD LOCATION MAP

SCALE 1"=50'

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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: 19 day 12 month 94 year

SPECIFICATION REQUIREMENTS

SOURCE: R-SCHNEIDER CONST MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED): 12"
(CIRCLE ONE)

% COMPACTION: ≥ 90% MOISTURE RANGE: — ASTM D 698: A B C / (ASTM D 1557: A) B C —
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 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		
1	D-5 TEST PAD / 1ST LIFT	12"	*11.0	*122.0	8.5	128.5	118.4	97	P			
2	C-5 " "	12"	11.0	122.0	9.9	129.7	118.0	97	P			
3	B-5 " "	12"	11.0	122.0	9.9	129.2	117.5	96	P			
4	A-5 " "	12"	11.0	122.0	7.9	128.7	119.2	98	P			
5	A-4 " "	12"	11.0	122.0	7.9	127.8	118.4	97	P			
6	B-4 " "	12"	11.0	122.0	9.5	128.3	117.2	96	P			
7	C-4 " "	12"	11.0	122.0	8.1	125.4	115.9	95	P			
8	D-4 " "	12"	11.0	122.0	8.1	127.7	118.1	97	P			
9	E-4 " "	12"	11.0	122.0	8.3	127.8	118.1	97	P			
10	E-3 " "	12"	11.0	122.0	7.2	124.8	116.4	95	P			
11	D-3 " "	12"	11.0	122.0	7.9	127.5	118.2	97	P			
12	C-3 " "	12"	11.0	122.0	7.9	125.5	116.3	95	P			
13	B-3 " "	12"	11.0	122.0	9.5	129.7	118.5	97	P			
14	A-3 " "	12"	11.0	122.0	8.2	124.9	115.5	95	P			

* Estimated Proctor by John Fox

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 12 month 94 year

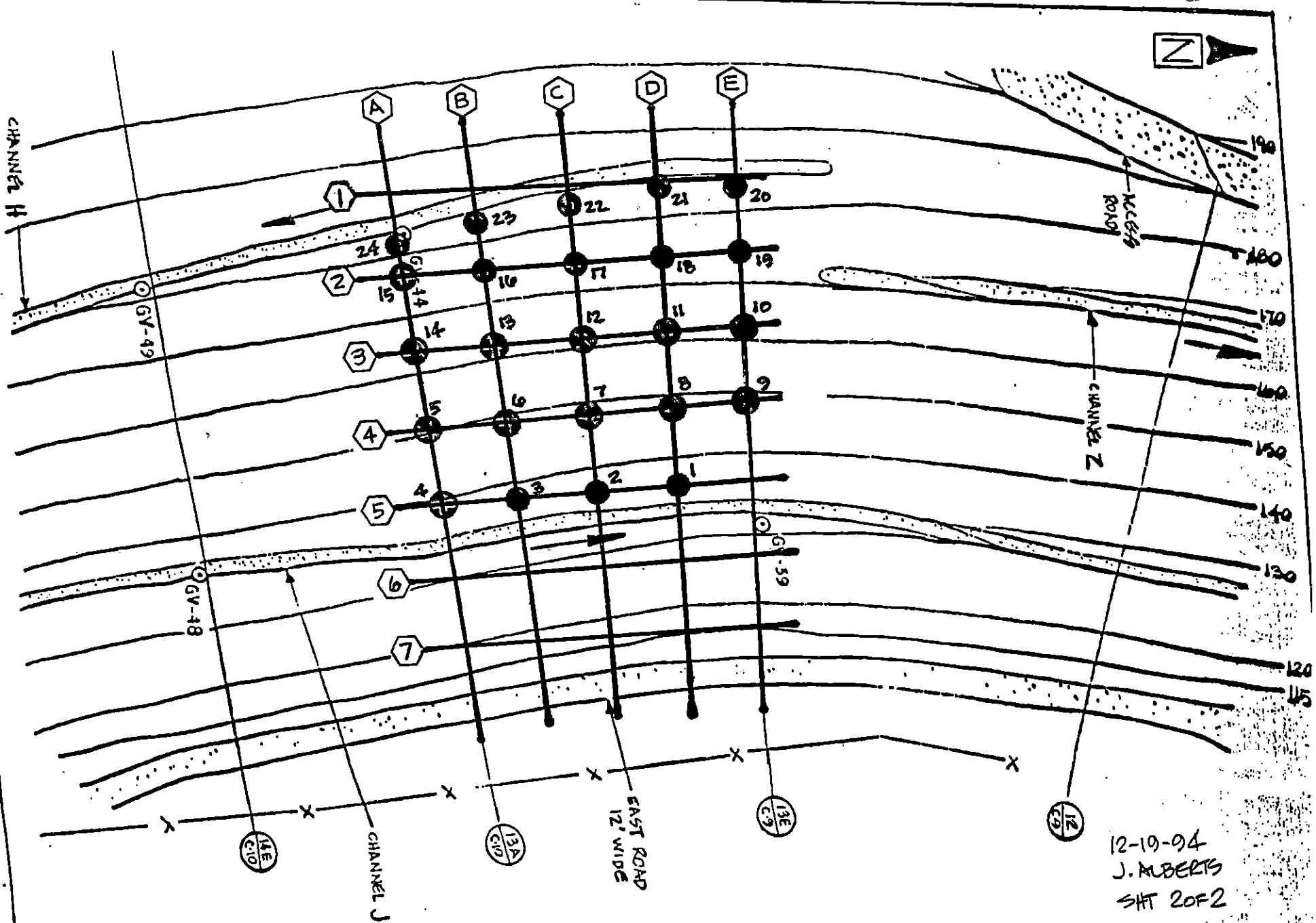
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHLEIDER CONST MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED) 12"
(CIRCLE ONE)

% COMPACTION: ≥ 90% MOISTURE RANGE: — ASTM D 698: A B C / (ASTM D 1557: (A) B C —
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 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		
15	A-2 TEST PAD / 1ST LIFT	12"	* 11.0	* 122.0	7.5	122.9	114.3	94	P			(DD)
16	B-2 " "	12"	11.0	122.0	11.1	122.4	110.1	90	P			(DD)
17	C-2 " "	12"	11.0	122.0	8.7	126.0	115.9	95	P			(DD)
18	D-2 " "	12"	11.0	122.0	9.3	126.8	116.0	95	P			(DD)
19	E-2 " "	12"	11.0	122.0	9.2	127.4	116.7	96	P			(DD)
20	E-1 " "	12"	11.0	122.0	7.8	126.4	117.3	96	P			(DD)
21	D-1 " "	12"	11.0	122.0	8.8	126.3	116.1	95	P			(DD)
22	C-1 " "	12"	11.0	122.0	7.7	126.2	117.2	96	P			(DD)
23	B-1 " "	12"	11.0	122.0	8.9	121.3	111.4	91	P			(DD)
24	A-1 " "	12"	11.0	122.0	9.0	125.3	115.0	94	P			(DD)



TEST PAD LOCATION MAP

SCALE - 1" = 50'

GeoSyntec Consultants

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 12 month 94 year

SPECIFICATION REQUIREMENTS

SOURCE: R. SCHEIDER CONST MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED)): ≤ 12

(CIRCLE ONE)

% COMPACTION: ≥ 90 % MOISTURE RANGE: — ASTM D 698: A B C / (ASTM D 1557): (A) B C —

(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 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		
1	C-2 TEST PAD/ 3RD LIFT	12"	11.0	122.0	7.7	128.8	119.5	98.0	P			
2	B-2 " "	12"	11.0	122.0	7.7	126.8	117.7	96.5	P			
3	A-2 " "	12"	11.0	122.0	8.0	125.9	116.6	95.5	P			
4	A-3 " "	12"	11.0	122.0	8.2	130.1	120.2	98.5	P			
5	B-3 " "	12"	11.0	122.0	8.2	129.7	119.9	98.3	P			
6	C-3 " "	12"	11.0	122.0	8.2	128.5	118.7	97.3	P			
7	C-4 " "	12"	11.0	122.0	8.5	127.9	117.9	96.6	P			
8	B-4 " "	12"	11.0	122.0	8.9	126.5	116.2	95.2	P			
9	A-4 " "	12"	11.0	122.0	8.5	129.4	119.3	97.8	P			
10	A-5 " "	12"	11.0	122.0	8.8	128.3	117.9	96.7	P			
11	B-5 " "	12"	11.0	122.0	8.3	128.6	118.7	97.3	P			
12	C-5 " "	12"	11.0	122.0	8.1	126.9	117.4	96.2	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: 20 day 12 month 94 year

SPECIFICATION REQUIREMENTS

SOURCE: R. SCHNEIDER CONST MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED): ≤ 12
(CIRCLE ONE)

% COMPACTION: ≥ 90% MOISTURE RANGE: — ASTM D 698: A B C / (ASTM D 1557: A) B C —
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 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		
1	A-2 TEST PAD / 2ND LIFT	12"	11.0	122.0	8.2	130.6	120.7	98.9	P			(12)
2	B-2 " "	12"	11.0	122.0	7.8	125.3	116.3	95.3	P			(91)
3	C-2 " "	12"	11.0	122.0	11.1	127.6	114.9	94.1	P			(76)
4	C-3 " "	12"	11.0	122.0	7.9	126.2	116.9	95.8	P			(78)
5	B-3 " "	12"	11.0	122.0	8.6	122.7	113.0	92.6	P			(97)
6	A-3 " "	12"	11.0	122.0	8.9	124.2	114.0	93.5	P			(75)
7	A-4 " "	12"	11.0	122.0	8.5	127.0	117.1	96.0	P			(77)
8	B-4 " "	12"	11.0	122.0	7.7	126.8	117.8	96.5	P			(74)
9	C-4 " "	12"	11.0	122.0	8.1	128.6	118.9	97.5	P			(80)
10	C-5 " "	12"	11.0	122.0	8.0	127.7	118.2	96.7	P			(90)
11	B-5 " "	12"	11.0	122.0	8.2	128.5	118.7	97.3	P			(90)
12	A-5 " "	12"	11.0	122.0	8.5	121.7	112.1	91.9	P			(92)
13	D-3 " "	12"	11.0	122.0	~~8.7~~ 7.7	~~122.2~~ 123.9 @ 122.7	~~112.4~~ 115.1 @ 112.4	~~92.1~~ 93.3 @ 92.3	P			(92)
14	E-3 " "	12'	11.0	122.0	7.9 @ 8.7	~~126.1~~ @	~~116.8~~ @	~~99.1~~ @	P			(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: 20 day 12 month 94 year

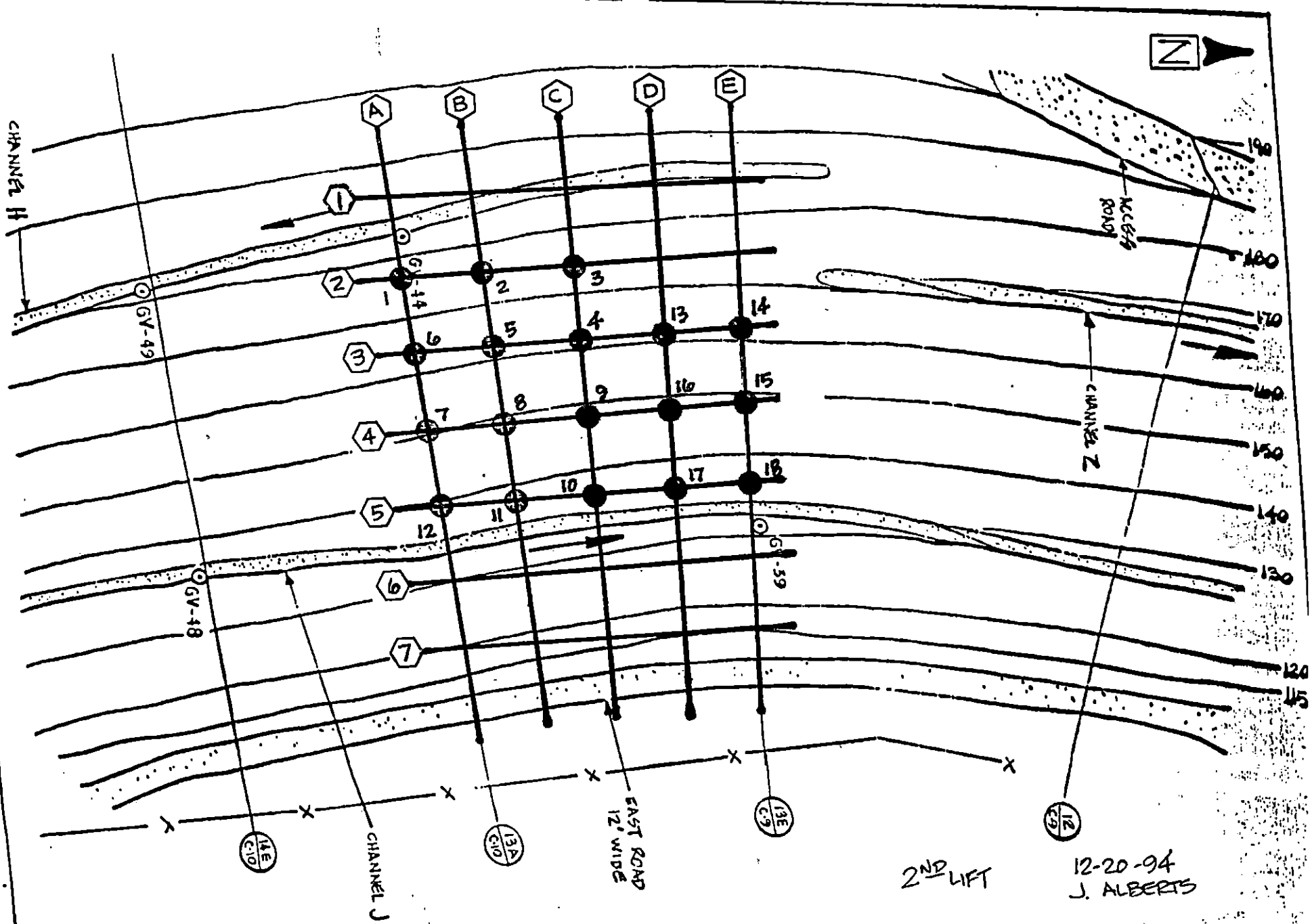
SPECIFICATION REQUIREMENTS

SOURCE: R SCHLEIDER CONST MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED)): ≤12"

% COMPACTION: ≥ 90% MOISTURE RANGE: — ASTM D 698: A B C / (ASTM D 1557: (A) B C (CIRCLE ONE) —

NUCLEAR GAUGE TYPE: TROXLER NUCLEAR GAUGE SERIAL NO. 1779B COR. FACTOR: —

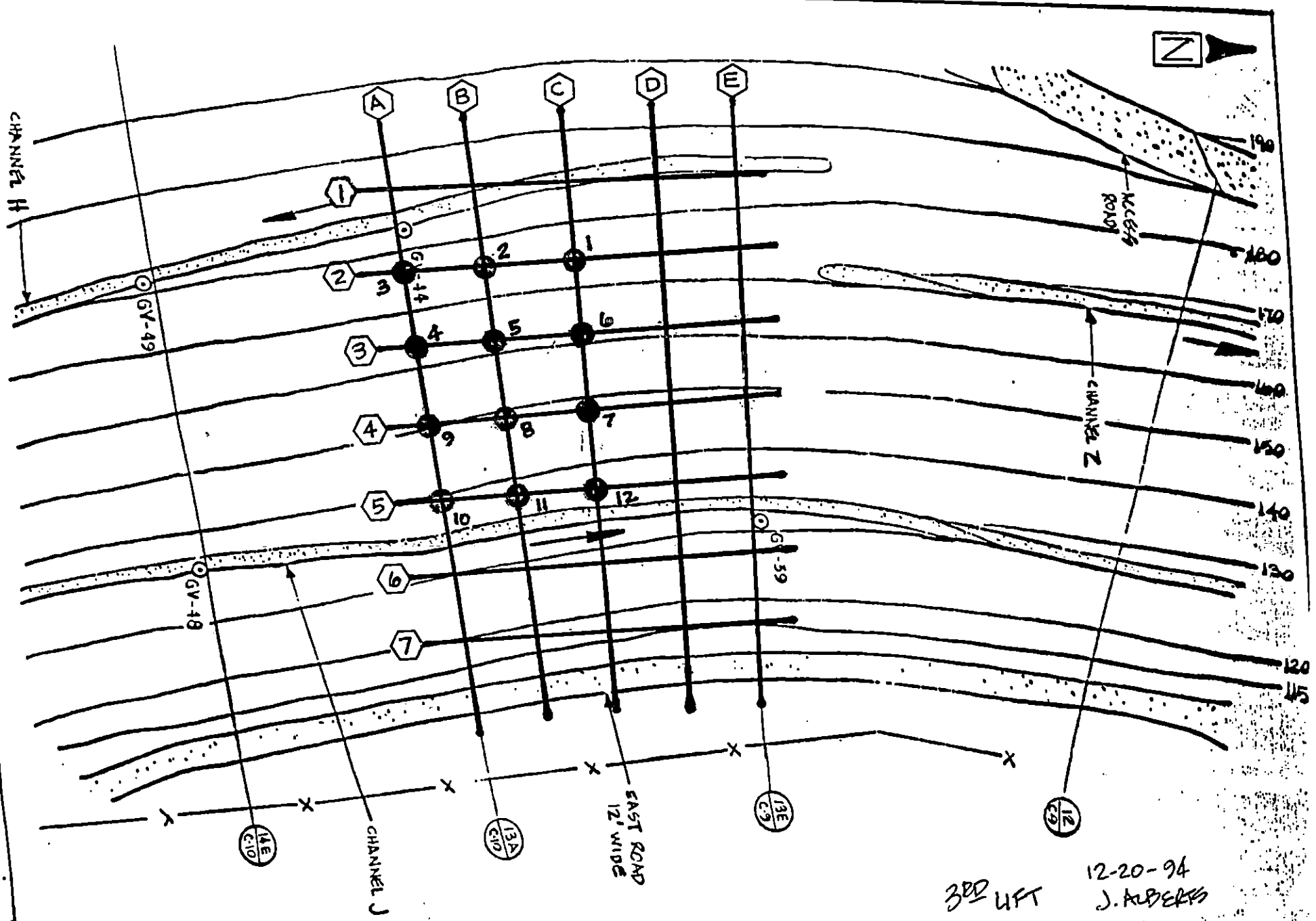
TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
15	E-4 TEST PAD / 2ND LIFT	12"	11.0	122.0	7.9	126.1	116.8	95.7	P			(20)
16	D-4 " "	12"	11.0	122.0	7.5	122.0	113.4	93.0	P			(20)
17	D-5 " "	12"	11.0	122.0	8.6	125.8	115.8	94.9	P			(20)
18	E-5 " "	12"	11.0	122.0	8.3	129.7	116.0	95.1	P			(20)



TEST PAD LOCATION MAP

SCALE 1" = 50'

GeoSyntec Consultants



3RD UFT

12-20-94
J. ALBERTS

TEST PAD LOCATION MAP

SCALE 1" = 50'

GeoSyntec Consultants

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 12 month 94 year

SPECIFICATION REQUIREMENTS

SOURCE: R. SCHEIDER CONST MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED)) ≤12"

% COMPACTION: ≥90% MOISTURE RANGE: — ASTM D 698: A B C / (ASTM D 1557: A) B C (CIRCLE ONE) —

NUCLEAR GAUGE TYPE: TROXLER 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		
1	E-2 TEST PAD / 4TH LIFT	12"	11.0	122.0	6.3	123.0	115.8	94.9	P			(82)
2	D-2 " "	12"	11.0	122.0	7.3	126.9	118.2	96.9	P			(81)
3	C-2 " "	12"	11.0	122.0	7.7	128.2	119.0	97.9	P			(80)
4	B-2 " "	12"	11.0	122.0	7.2	129.9	121.2	99.3	P			(79)
5	A-2 " "	12"	11.0	122.0	7.9	130.4	120.8	99.0	P			(78)
6	A-3 " "	12"	11.0	122.0	8.5	129.7	119.5	97.9	P			(77)
7	B-3 " "	12"	11.0	122.0	6.5	128.5	120.6	98.9	P			(76)
8	C-3 " "	12"	11.0	122.0	6.1	125.5	118.3	96.9	P			(75)
9	D-3 " "	12"	11.0	122.0	7.1	~~114.8~~ 123.0	~~123.0~~ 114.8	94.1	P			(74)
10	E-3 " "	12"	11.0	122.0	6.5	~~116.1~~ 122.6	~~122.6~~ 115.1	94.4	P			(73)
11	E-4 " "	12"	11.0	122.0	7.6	~~117.3~~ 126.2	~~126.2~~ 117.3	96.1	P			(72)
12	D-4 " "	12"	11.0	122.0	5.9	~~118.0~~ 125.0	~~125.0~~ 118.0	96.8	P			(71)
13	C-4 " "	12"	11.0	122.0	8.0	~~113.7~~ 122.8	~~122.8~~ 113.7	93.2	P			(70)
14	B-4 " "	12"	11.0	122.0	6.7	~~118.1~~ 126.0	~~126.0~~ 118.1	96.8	P			(69)

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 12 month 94 year

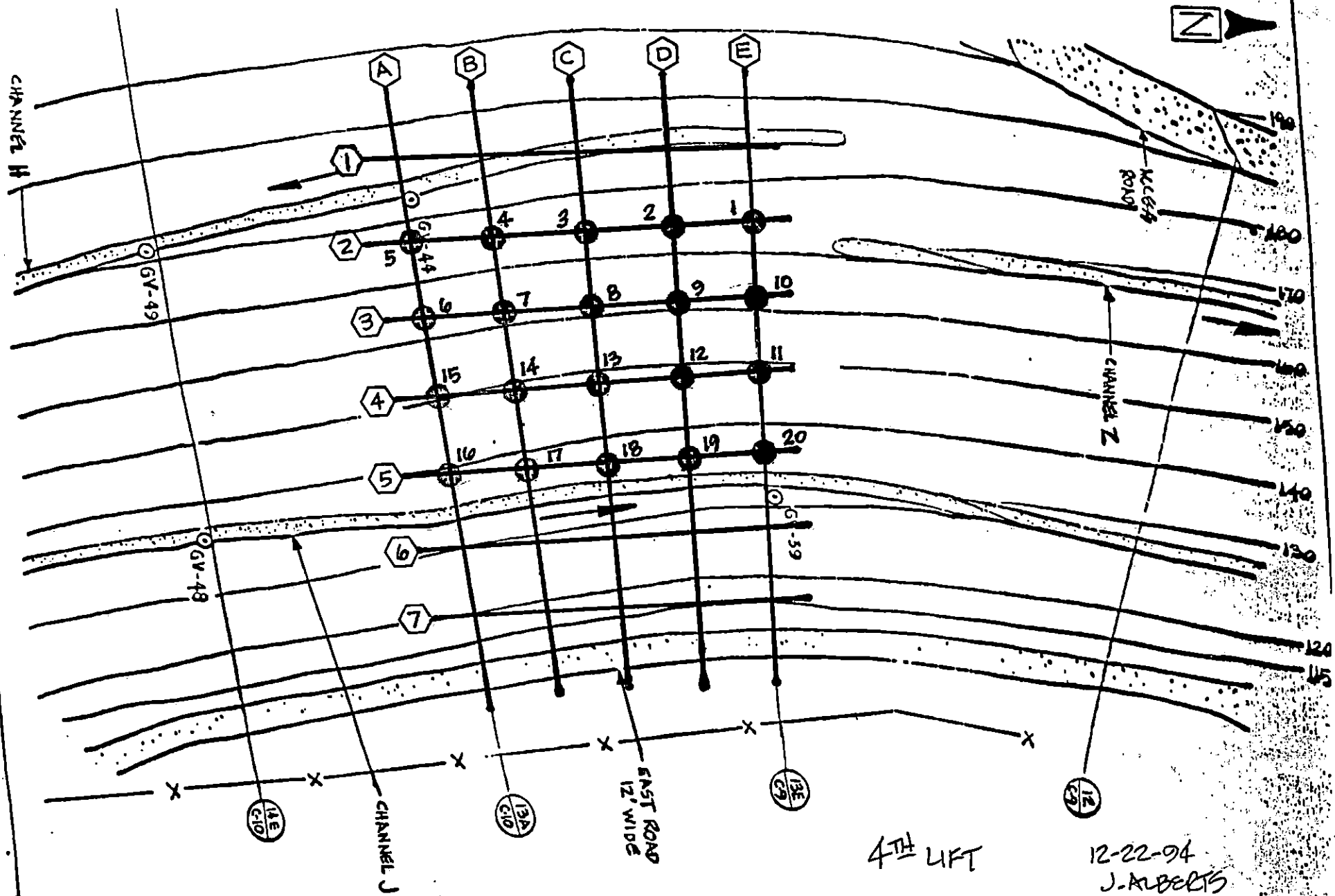
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHEIDER CONST MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE, (COMPACTED)): ≤12"
(CIRCLE ONE)

% COMPACTION: ≥90% MOISTURE RANGE: — ASTM D 698: A B C / (ASTM D 1557): (A) B C —
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 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		
15	A-4 TEST PAD/4TH LIFT	12"	11.0	122.0	8.4	~~115.7~~ 125.4	~~125.4~~ 115.7	94.8	P			(15)
16	A-5 " "	12"	11.0	122.0	8.3	~~116.1~~ 125.6	~~125.6~~ 116.1	95.1	P			(16)
17	B-5 " "	12"	11.0	122.0	7.6	~~119.8~~ 129.0	~~129.0~~ 119.8	98.2	P			(17)
18	C-5 " "	12"	11.0	122.0	7.8	~~116.7~~ 125.7	~~125.7~~ 116.7	95.6	P			(18)
19	D-5 " "	12"	11.0	122.0	6.9	~~114.0~~ 121.9	~~121.9~~ 114.0	93.4	P			(19)
20	E-5 " "	12"	11.0	122.0	7.5	~~115.4~~ 124.0	~~124.0~~ 115.4	94.6	P			(20)



TEST PAD LOCATION MAP

SCALE 1"=50'

GeoSyntec Consultants

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 4 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: R. SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/COMPACTED): ≤9"

% COMPACTION: ≥ 90% MOISTURE RANGE: ±2% OPT ASTM D 698: A B C / (ASTM D 1557): (A) B C —

NUCLEAR GAUGE TYPE: TROXLER NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	FENCELINE BEN TRENCH TEST LOCATION STATION REFER TO GAS COLLECTION PLAN	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
0604-1	STA. 41+50	6"	7.1	131.9	6.7	135.3	126.7	96.1	P			(90)
0604-2	40+50	"	"	"	7.5	135.0	125.7	95.3	P			(90)
0604-3	39+50	"	"	"	7.5	124.4	115.7	87.7	F	F	0604-4	(90)
0604-4	39+35	"	"	"	7.2	134.4	125.4	95.2	P			(90)
0604-5	38+50	"	"	"	6.5	126.1	118.4	89.8		F	0604-6	(90)
0604-6	38+40	"	"	"	7.4	128.2	119.4	90.5	P			(90)
0604-7	37+40	"	"	"	6.9	134.1	125.5	95.1				(90)
0604-8	36+40	"	"	"	7.8	137.7	127.7	96.8	P			(90)
0604-9	35+40	"	"	"	9.2	136.6	125.1	94.8	P			(90)
0604-10	34+50	"	"	"	8.3	128.7	118.8	90.1	P			(90)
0604-11	33+50	"	"	"	8.3	135.2	124.6	94.4	P			(90)
0604-12	32+50	"	"	"	7.6	131.0	121.8	92.3	P			(90)
0604-13	31+40	"	"	"	8.3	132.5	122.4	92.8	P			(90)
0604-14	30+50	"	"	"	8.1	128.8	119.1	90.3	P			(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: 10 day 4 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: R. SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED)): 12"

% COMPACTION: ≥ 90% MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557: A) B C (CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 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.
	TEST PAD		OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
1004-1	D-1	12"	8.3	128.6	6.4	124.7	117.2	91.9	✓			(98)
1004-2	C-1	"	"	"	5.9	128.1	121.0	94.1	✓			(99)
1004-3	B-1	"	"	"	9.3	130.7	119.6	93.0	✓			(99)
1004-4	A-1	"	"	"	8.2	127.0	117.4	91.3	✓			(99)
1004-5	A-2	"	"	"	7.2	128.5	119.8	93.2	✓			(99)
1004-6	B-2	"	"	"	10.9	132.4	119.4	92.8	✓			(99)
1004-7	C-2	"	"	"	8.2	132.0	122.0	94.9	✓			(99)
1004-8	D-2	"	"	"	8.0	125.5	116.2	90.4	✓			(99)
1004-9	D-3	"	"	"	7.9	129.8	120.3	93.6	✓			(99)
1004-10	C-3	"	"	"	10.8	133.6	120.6	93.8	✓			(99)
1004-11	B-3	"	"	"	10.2	132.7	120.4	93.6	✓			(99)
1004-12	A-3	"	"	"	7.3	129.5	120.7	93.9	✓			(99)
1004-13	A-4	"	"	"	7.6	136.1	126.5	98.4	✓			(99)
1004-14	B-4	"	"	"	9.5	131.3	121.8	94.7	✓			(99)

→ DO-W reverse

TEST PAD RETESTED WITH REPRESENTATIVE PROCTOR VS ESTIMATED PROCTOR USED ON 12-10-94 (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 4 month 95 year

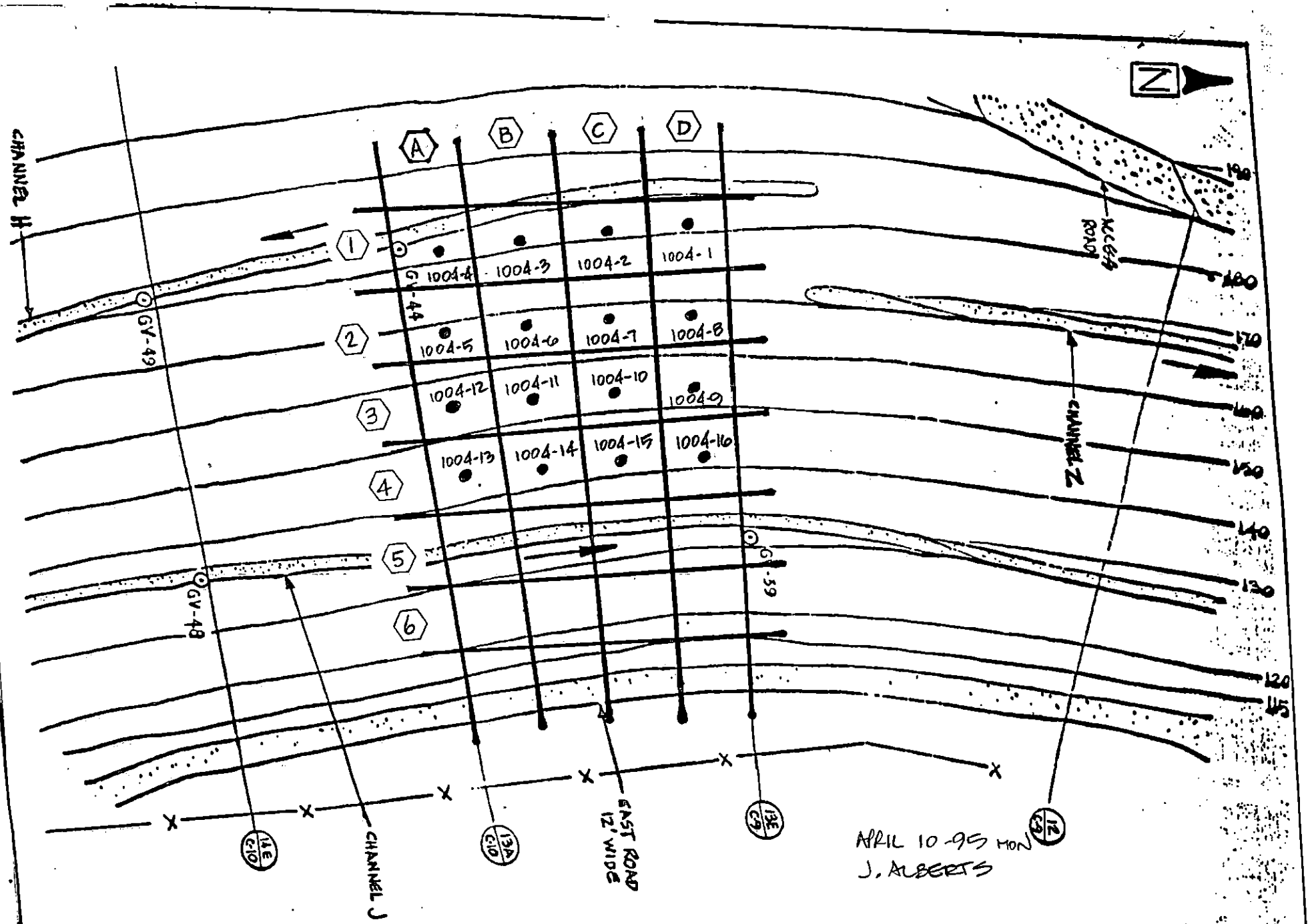
SPECIFICATION REQUIREMENTS

SOURCE: R-SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED): 12"
(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 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION TEST PAD	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		
1004-15	C-4	12"	8.3	128.6	9.5	134.2	122.6	95.3	✓			(90)
1004-16	D-4	"			10.3	132.4	122.1	95.0	✓			(91)



TEST PAD LOCATION MAP (30' GRID)

SCALE 1"=50'

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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: 17 day 4 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: R. SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON (CIRCLE ONE) LIFT THICKNESS (LOOSE / (COMPACTED)): 12"

% COMPACTION: ≥ 90% MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557): A B C (CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 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
1704-1	N 9050 & E 6260	6"/11"/1	8.3	128.6	6.3	129.5	121.8	94.7	✓			JD
1704-2	N 8940 & E 6240	6"/12"/1	8.3	128.6	7.0	124.7	116.6	90.7	✓			JD
1704-3	N 8850 & E 6260	6"/10"/1	8.3	128.6	7.4	128.2	119.3	92.8	✓			JD
1704-4	N 8735 & E 6240	6"/8"/1	8.3	128.6	7.1	125.7	117.4	91.3	✓			JD
1704-5	N 8630 & E 6230	6"/12"/1	8.3	128.6	9.0	130.6	119.8	93.1	✓			JD

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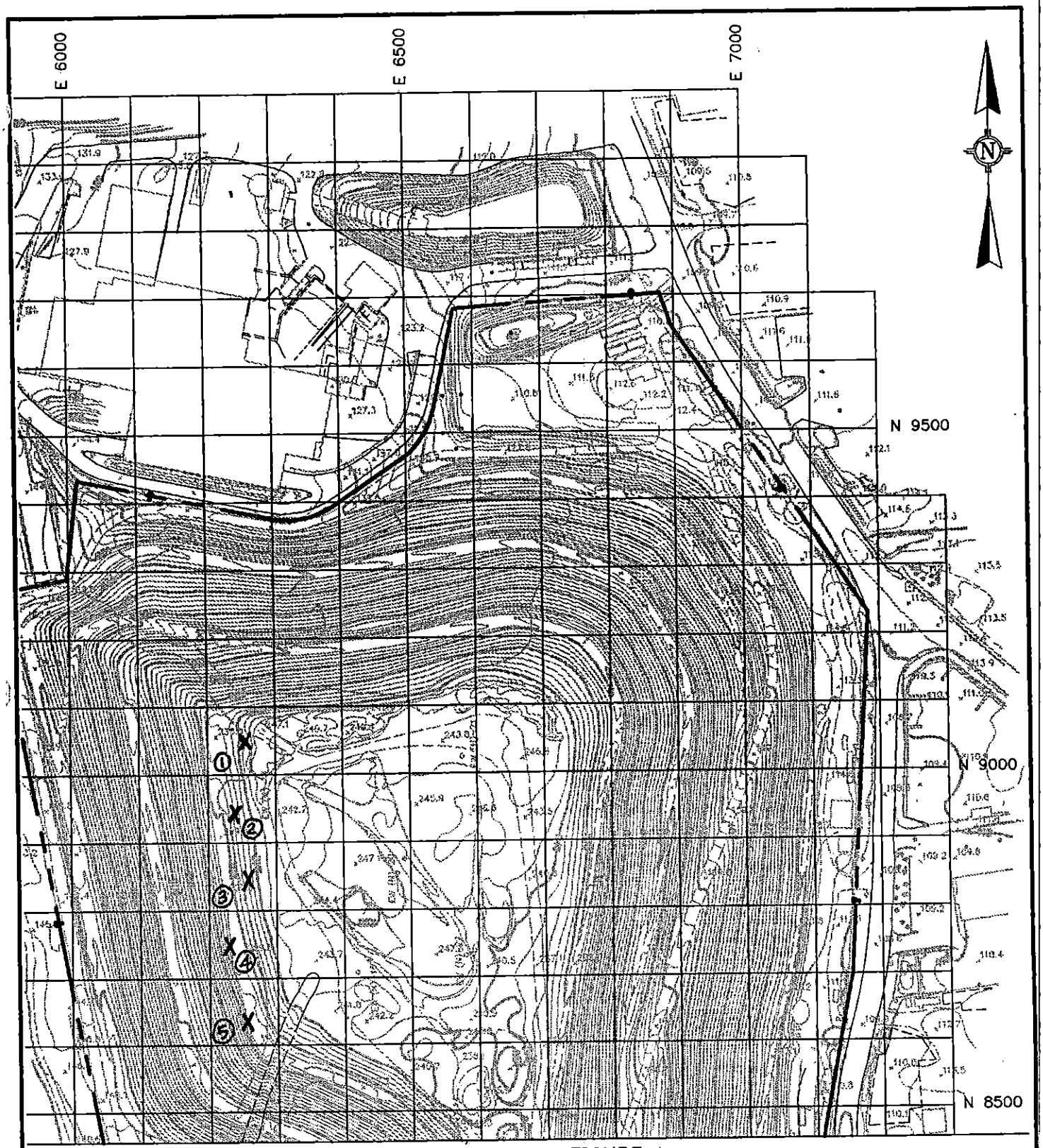


LAP MATCH TO FIGURE 1

0 100 200

1 inch = 200 ft.

DATE: 17-4-95
COMMON FILL NUCLEAR DENSITY TESTS LOCATION
J. ALBERTS (20)

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: 18 day 4 month 95 year

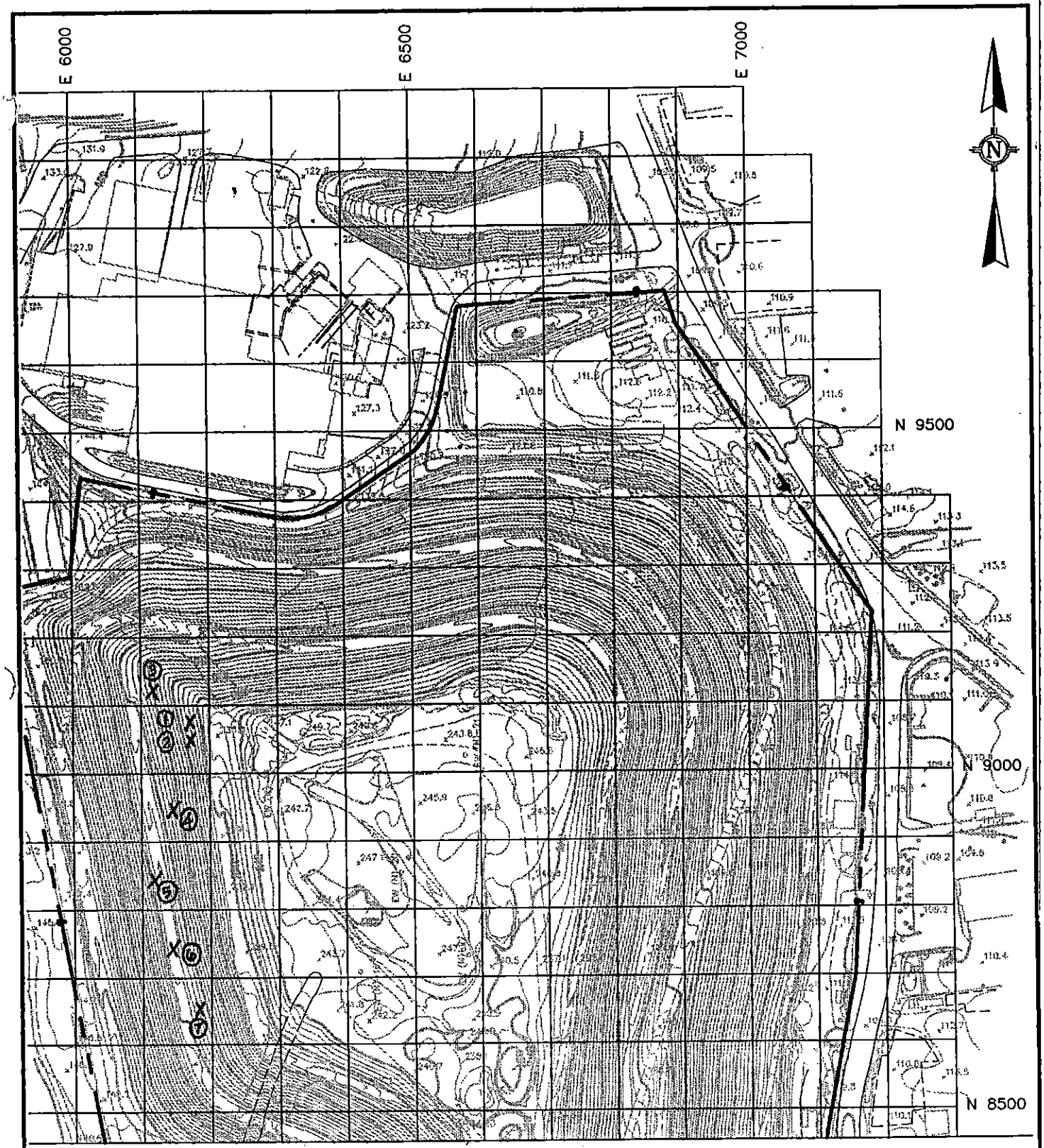
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED): 12"

% COMPACTION: ≥ 90% MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557): A B C (CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 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
1804-1	N 9080 & E 6175	8"/11"/1	8.2	131.0	7.6	126.0	117.0	89.4		✓	1804-2	(JD)
1804-2	N 9050 & E 6170	6"/11"/1	8.2	131.0	6.5	124.6	116.9	89.2		✓	1904-2	(JD)
1804-3	N 9130 & E 6125	6"/11"/1	8.2	131.0	6.4	122.4	115.0	87.8		✓	1904-3	(JD)
1804-4	N 8950 & E 6150	8"/11"/1	8.2	131.0	9.8	129.4	117.9	90.0	✓			(JD)
1804-5	N 8840 & E 6125	8"/9"/1	8.2	131.0	9.6	130.1	118.7	90.6	✓			(JD)
1804-6	N 8750 & E 6150	6"/9"/1	8.2	131.0	6.5	125.6	117.9	90.0	✓			(JD)
1804-7	N 8680 & E 6175	6"/10"/1	8.2	131.0	6.1	127.3	120.0	91.6	✓			(JD)



DATE: 18-4-95
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION

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 301.7 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 4 month 95 year

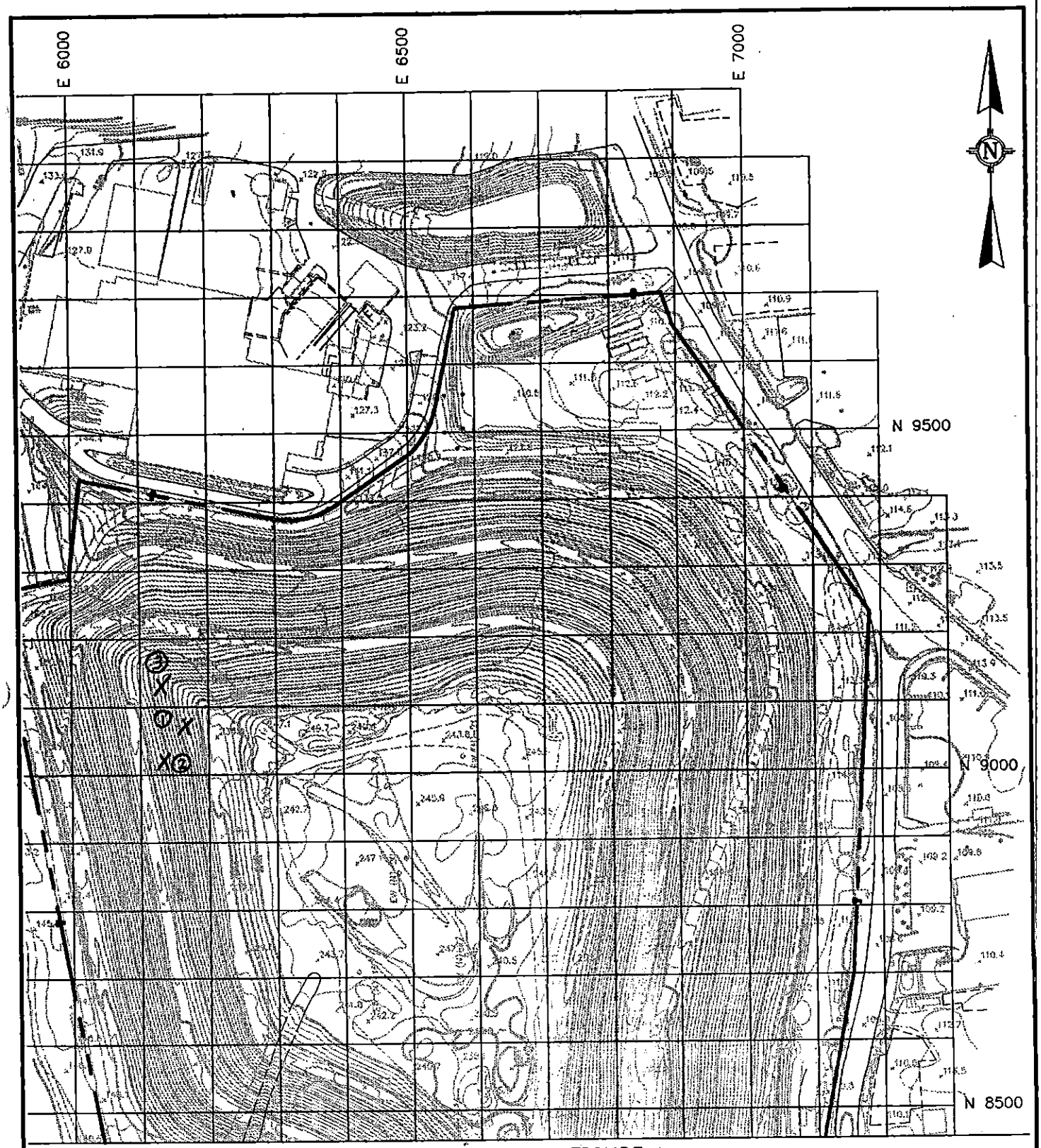
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED)): 12"

% COMPACTION: ≥ 90% MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557: (A) B C (CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ACT 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		
1904-1	N9080 E 6180	6"/11"/1	8.2	131.0	7.1	126.3	117.9	90.0	✓		1804-1	(RD)
1904-2	N9020 E 6120	6"/11"/1	8.2	131.0	6.8	122.6	119.4	91.2	✓		1804-2	(RD)
1904-3	N9125 E 6135	8"/10"/1	8.2	131.0	6.9	129.6	121.3	92.6	✓		1804-3	(RD)
1904-4	CB#2 EAST SIDE	8"/12"+/1	8.2	131.0	11.5	130.5	117.1	89.4		✓	1904-8	(RD)
1904-5	CB#2 NORTH SIDE	8"/12"+/1	8.2	131.0	11.2	128.3	115.4	88.1		✓	1904-9	(RD)
1904-6	CB#2 WEST SIDE	8"/12"+/1	8.2	131.0	10.5	125.6	113.6	86.7		✓	1904-10	(RD)
1904-7	CB#2 SOUTH SIDE	8"/12"+/1	8.2	131.0	11.3	129.4	116.3	88.8		✓	1904-11	(RD)
1904-8	CB#2 EAST SIDE	8"/12"+/1	8.2	131.0	11.6	128.1	114.8	87.6		✓		(RD)
1904-9	CB#2 NORTH SIDE	8"/12"+/1	8.2	131.0	10.6	131.8	119.1	90.9	✓			(RD)
1904-10	CB#2 WEST SIDE	8"/12"+/1	8.2	131.0	11.6	131.6	118.0	90.1	✓			(RD)
1904-11	CB#2 SOUTH SIDE	8"/12"+/1	8.2	131.0 124.5	12.8	127.6	113.2	86.4 91.3	✓			(RD)
1904-12	CB#2 EAST SIDE 8" BELOW	8"/12"+/1	8.2	131.0 124.0	15.5	120.2	104.0	79.4 83.9		✓		(RD)



DATE: 10-4-95
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION (RETEST)

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: 20 day 4 month 1995 year

SPECIFICATION REQUIREMENTS

SOURCE: R. SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON (CIRCLE ONE) LIFT THICKNESS (LOOSE/COMPACTED): 12"

% COMPACTION: ≥ 90% MOISTURE RANGE: ± 2% of OMC ASTM D 698: A B C / (ASTM D 1557: A) B C (CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 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		
2004-1	N 9220 ℄ E 6130	8"/8"/1	8.2	131.0	6.7	128.5	120.4	91.9	✓			RD
2004-2	N 9260 ℄ E 6060	6"/9"/1	8.2	131.0	6.4	126.4	118.8	90.7	✓			RD
2004-3	N 9145 ℄ E 6040	6"/9"/1	8.2	131.0	9.3	129.0	118.0	90.1	✓			RD
2004-4	N 9050 ℄ E 6050	6"/10"/1	8.2	131.0	6.8	126.3	118.3	90.3	✓			RD
2004-5	N 8940 ℄ E 6060	6"/9"/1	8.2	131.0	7.2	127.9	119.3	91.1	✓			RD
2004-6	CB # 4 WEST SIDE	8"/12"+/1	8.2	131.0	9.6	132.0	120.4	91.9	✓			RD
2004-7	CB # 4 NORTH SIDE	8"/12"+/1	8.2	131.0	10.3	132.6	120.2	91.8	✓			RD
2004-8	CB # 4 EAST SIDE	8"/12"+/1	8.2	131.0	9.1	130.6	119.7	91.4	✓			RD
2004-9	CB # 4 SOUTH SIDE	8"/12"+/1	8.2	131.0	9.1	128.7	117.9	90.0	✓			RD
2004-10	CB # 5 WEST SIDE	8"/12"+/1	8.2	131.0	9.7	131.7	120.0	91.6	✓			RD
2004-11	CB # 5 SOUTH SIDE	8"/12"+/1	8.2	131.0	9.4	130.7	119.5	91.2	✓			RD
2004-12	CB # 5 NORTH SIDE	8"/12"+"/2	8.2	131.0	6.7	126.1	118.2	90.3	✓			RD
2004-13	CB # 5 EAST SIDE	8"/12"+"/2	8.2	131.0	7.8	127.6	118.2	90.3	✓			RD

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 4 month 1995 year

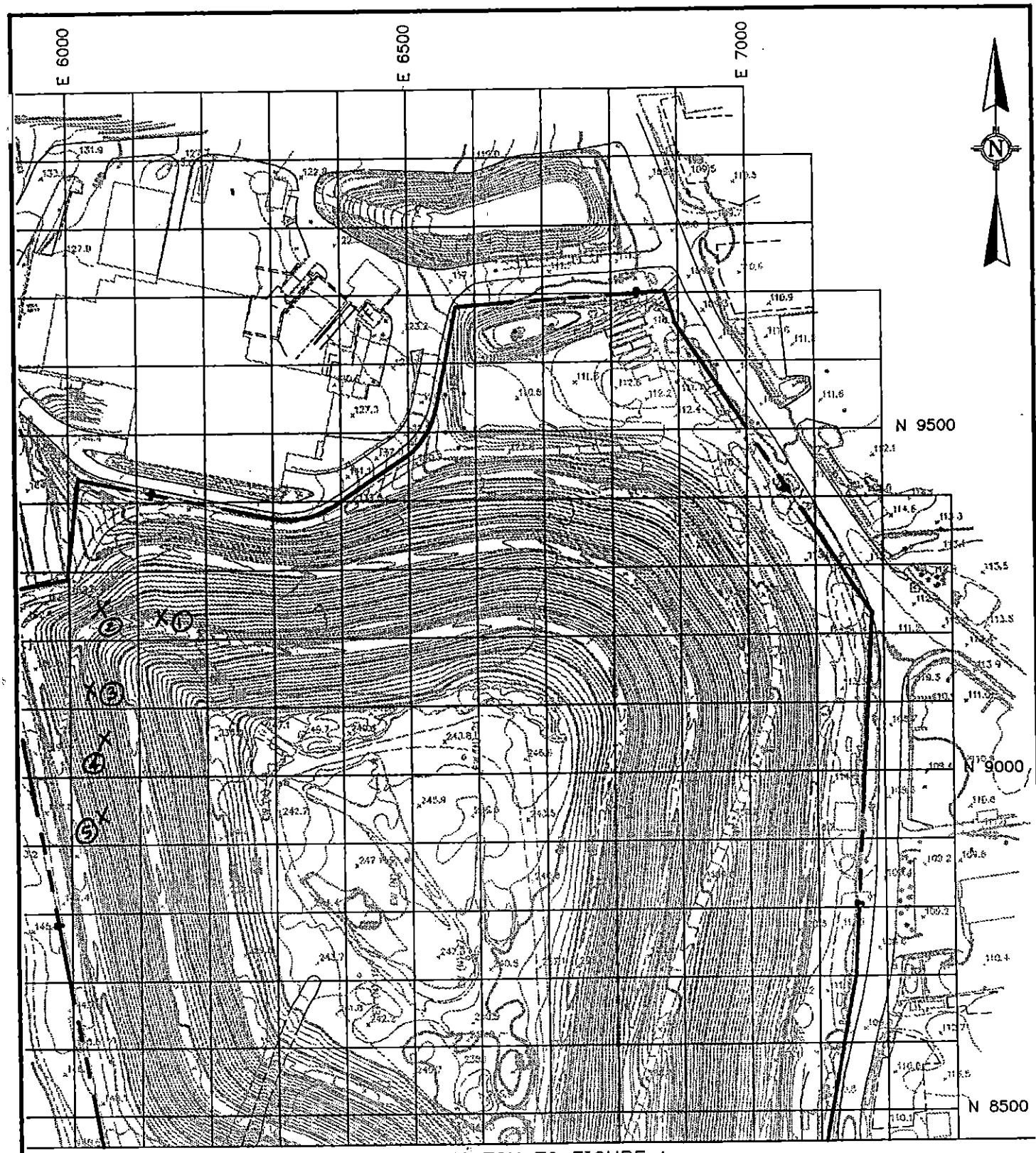
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE / COMPACTED): 12+
(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 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		
2004-14	N 8270 CHANNEL H *	6"/12"+/INVERT	8.2	124.0 / 131.0	9.1	115.6	106.0	85.5 / 80.9		✓		QD
2004-15	N 8220 CHANNEL H *	6"/12"+/INVERT	8.2	124.0 / 131.0	8.5	112.9	104.1	84.0 / 79.5		✓		QD
* TOP	ANCHOR TRENCH @	TEST PAD	AREA	(INVERT	OF TRENCH)							



DATE: 20-4-95
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION

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: 21 day 4 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: R. SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED): 12"

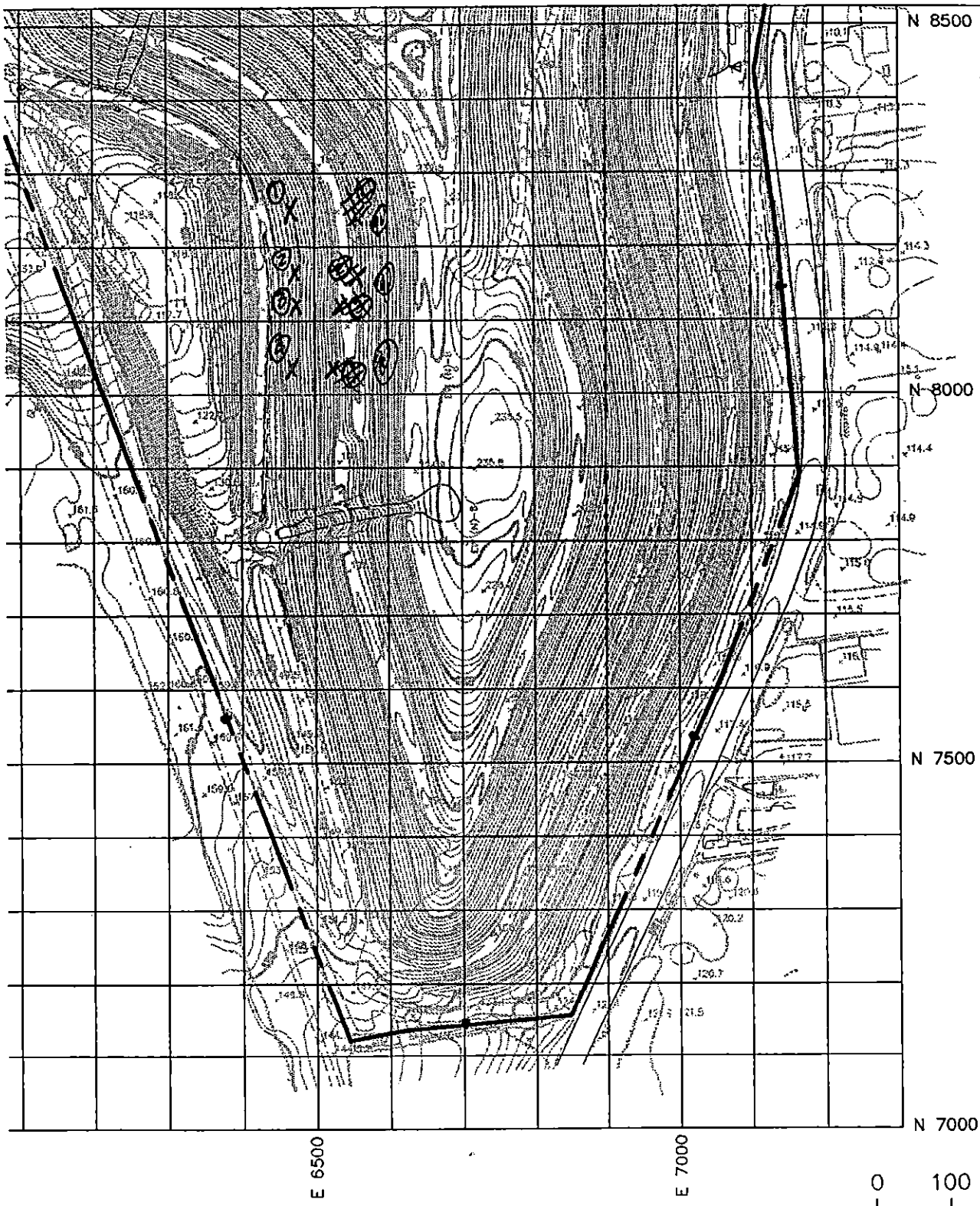
% COMPACTION: ≥ 90% MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557: A) B C

NUCLEAR GAUGE TYPE: TROXLER 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
	2104-1	N8240 † E 6560	6"/10"/1	8.5	129.5	5.6	126.1	119.4	92.2	✓			(92)
	2104-2	N8155 † E 6560	6"/9"/1	8.5	129.5	5.5	121.3	115.0	88.8		✓	2104-3	(92)
	2104-3	N8130 † E 6550	6"/10"/1	8.5	129.5	5.5	124.0	117.6	90.8	✓			(92)
	2104-4	N8035 † E 6525	6"/9"/1	8.5	129.5	6.8	126.9	118.8	91.7	✓			(92)
*	2104-5	SWS #3 TO CB#9 STA 757+00	6"	8.8	123.8	5.7	114.1	108.0	87.2		✓		(92)
*	2104-6	SWS #3 TO CB#9 STA 650+00	6"	8.8	123.8	5.1	116.3	110.9	89.6		✓		(92)
*	2104-7	SWS #3 TO CB#9 STA 555+00	6"	8.8	123.8	3.6	113.6	109.7	88.6		✓		(92)

* LAB TESTS BEING PERFORMED ON SAMPLE TO DETERMINE OMC † MAX. DRY UNIT WT - WILL CALCULATE PERCENT COMPACT FROM LAB RESULTS. (92)

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.	

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 4 month 95 year

SPECIFICATION REQUIREMENTS

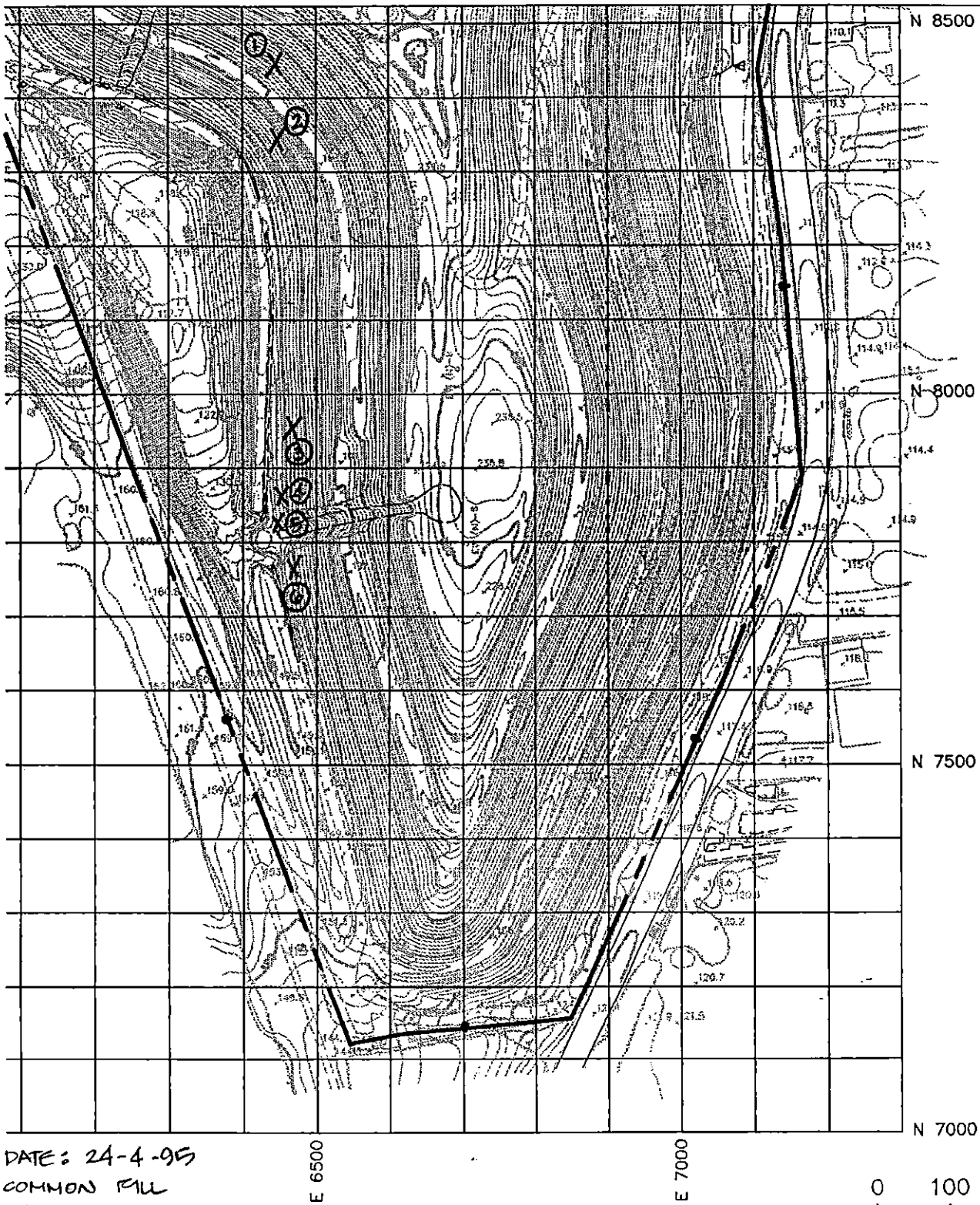
SOURCE: R. SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE / (COMPACTED)): 12"
(CIRCLE ONE)

% COMPACTION: ≥ 90% MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557: (A) B C
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH / ACT 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		
2404-1	N8450 ∮ E6450	6"/10"/1	8.5	129.5	6.4	125.8	118.2	91.3	P			(D)
2404-2	N8350 ∮ E6450	6"/10"/1	8.5	129.5	6.7	126.6	118.7	91.7	P			(D)
2404-3	N 7940 ∮ E 6440	6"/10"/1	8.5	129.5	5.7	124.1	117.4	90.6	P			(D)
2404-4	N 7850 ∮ E 6430	6/8"/1	8.5	129.5	9.4	125.4	114.6	88.5		F	2404-5	(D)
2404-5	N 7840 ∮ E 6430	6"/8"/1	8.5	129.5	6.8	124.6	116.7	90.1	P			(D)
2404-6	N 7760 ∮ E 6460	6"/10.5"/1	8.5	129.5	6.2	125.3	118.0	91.1	P			(D)

LAP MATCH TO FIGURE 2



DATE: 24-4-95
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION

100 FOOT FIELD TESTING GRID

0 100 200

1 inch = 200 ft.

GeoSyntec Consultants

DWG: 3700F001 199501251447RT

FIGURE NO.	1
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 4 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: R. SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED): 12"

% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557: (A) B C (CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 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		
2504-1	N 8320 TEST PAD ANCHOR TRENCH INVERT CHANNEL H	6"/12"+/1	8.5	129.5	12.0	116.4	103.9	80.2		F		
2504-2	N 8280 TEST PAD ANCHOR TRENCH INVERT CHANNEL H	6"/12"+/1	8.5	129.5	12.5	124.2	110.4	85.2		F		
2504-3	N 8250 TEST PAD ANCHOR TRENCH INVERT CHANNEL H	6"/12"+/1	8.5	129.5	13.4	116.8	103.0	79.5		F		
2504-4	N 7640 & E 6460 WEST SLOPE	6"/10"/1	8.5	129.5	9.8	128.0	116.6	90.0	P			
2504-5	N 7550 & E 6460 " "	6"/11"/1	8.5	129.5	6.0	118.1	111.4	86.1		F	2504-6	
2504-6	N 7530 & E 6430 " "	6"/10"/1	8.5	129.5	6.9	125.0	116.9	90.3	P			
2504-7	N 7450 & E 6425 " "	6"/10"/1	8.5	129.5	6.1	121.3	114.3	88.3		F		
2504-8	N 7440 & E 6435 " "	6"/10"/1	8.5	129.5	5.8	118.1	111.7	86.2		F	2504-7	
2504-9	N 7445 & E 6430 " "	6"/10"/1	8.5	129.5	6.2	124.1	116.8	90.2	P		2504-8	
2504-10	N 7340 & E 6470 " "	6"/10"/1	8.5	129.5	6.5	124.2	116.6	90.0	P			
2504-11	N 8850 & E 6040 " "	6"/8"/1	8.5	129.5	8.0	121.4	112.4	86.8		F		
2504-12	N 8750 & E 6030 " "	6"/8"/1	8.5	129.5	7.5	122.2	113.6	87.7		F		
2504-13	N 8640 & E 6035 " "	6"/9"/1	8.5	129.5	5.3	117.7	111.8	86.3		F		
2504-14	N 8300 TEST PAD ANCHOR TRENCH INVERT CHANNEL H	6"/12"+/1	8.5	129.5	11.1	120.2	108.2	83.5		F		

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 4 month 95 year

SPECIFICATION REQUIREMENTS

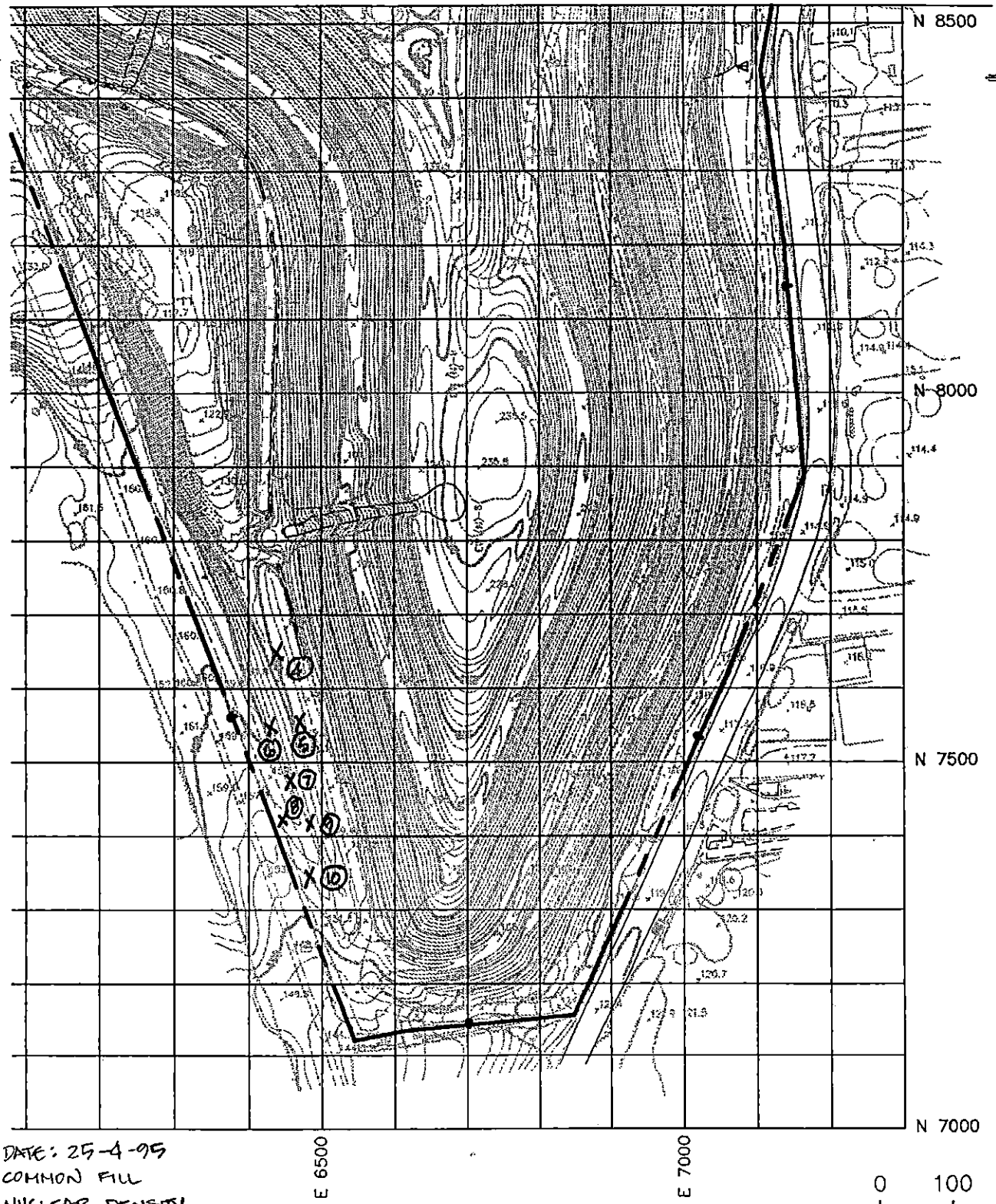
SOURCE: R. SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED)): 12"

% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557: A) B C (CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 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		
2504-15	N8225 TEST PAD ANCHOR TRENCH INVERT CHANNEL H	6"/12"+/1	8.5	129.5	9.7	118.5	108.0	83.4		F		(W) (S)

LAP MATCH TO FIGURE 2



DATE: 25-4-95
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION

0 100 200

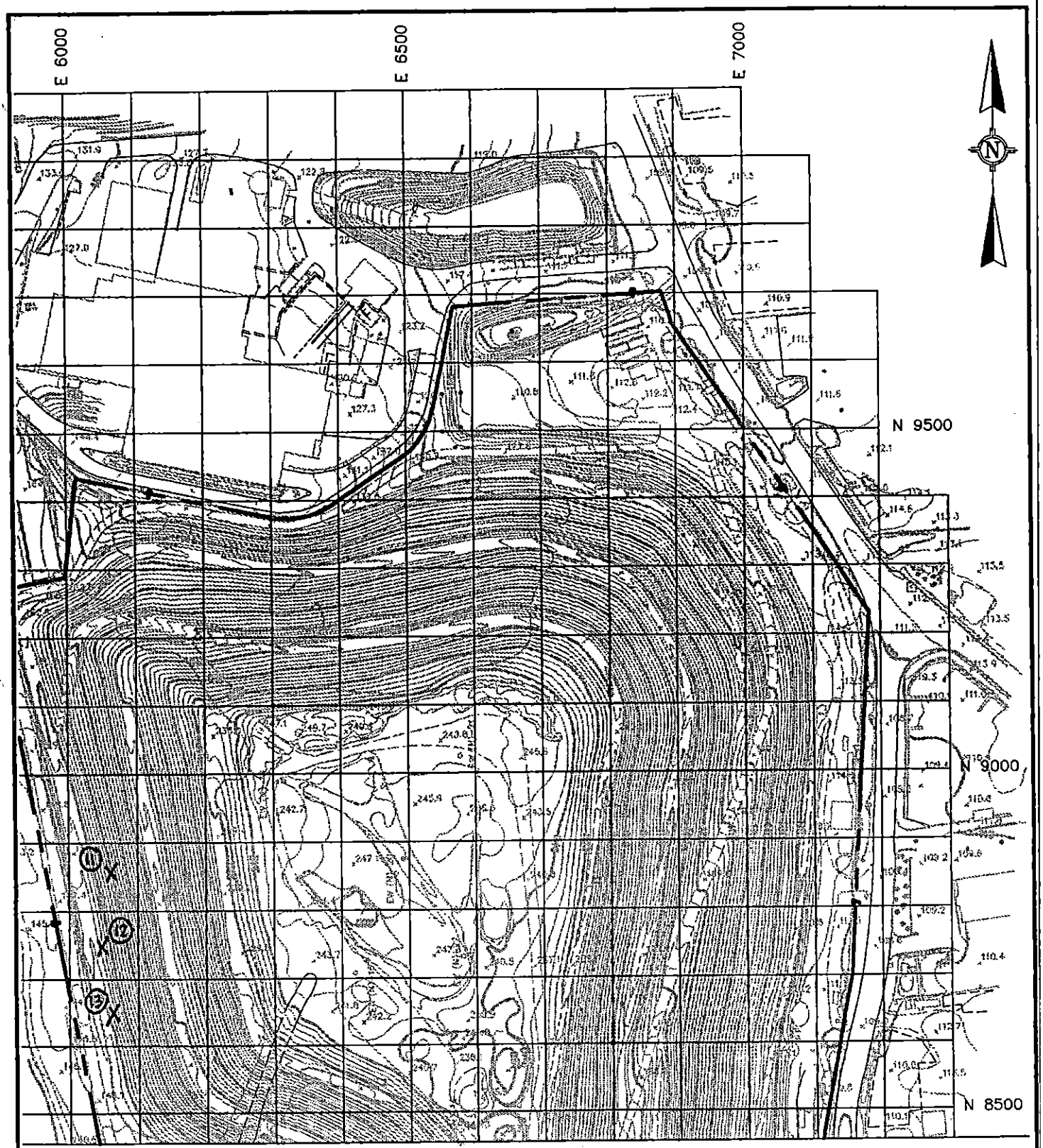
1 inch = 200 ft.

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants

DWG: 3700F001 199501251447RT

FIGURE NO.	1
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	



DATE: 25-4-95
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION (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.	

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 4 month 1995 year

SPECIFICATION REQUIREMENTS

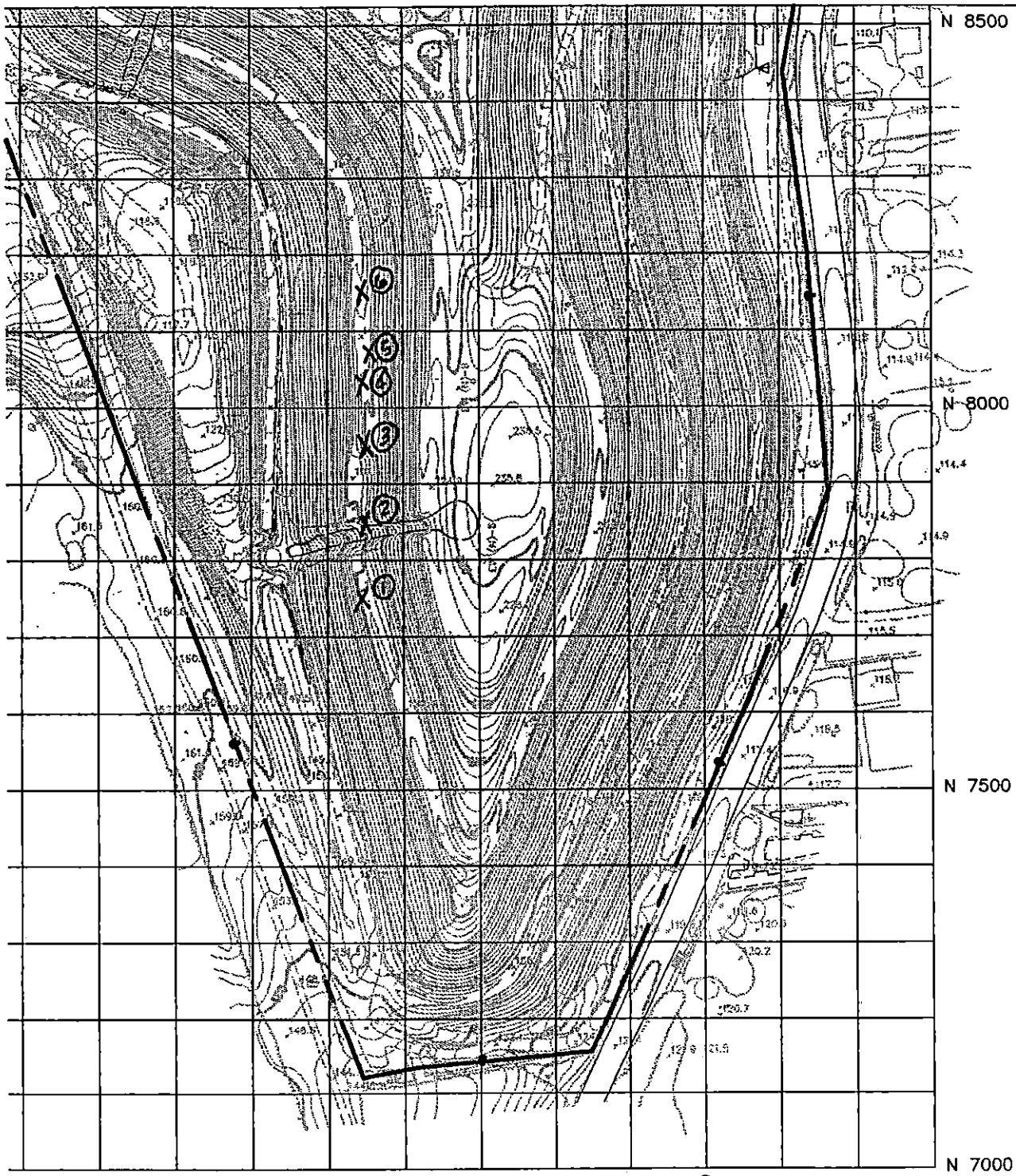
SOURCE: R. SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED)): 12"

% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557) (A) B C (CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 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
2704-1	N7740 & E6535 WEST SLOPE	6"/8"/1	8.5	129.5	7.1	125.2	116.8	90.2	P			(D)
2704-2	N7850 & E6525 "	6"/8"/1	8.5	129.5	6.9	124.7	116.7	90.1	P			(D)
2704-3	N7950 & E6530 "	6"/9"/1	8.5	129.5	6.2	128.9	121.4	93.7	P			(D)
2704-4	N8040 & E6540 "	6"/10"/1	8.5	129.5	7.5	122.6	114.0	88.1		F	2704-5	(D)
2704-5	N8050 & E6545 "	6"/10"/1	8.5	129.5	6.7	124.8	117.0	90.3	P			(D)
2704-6	N8160 & E6560 "	6"/9"/1	8.5	129.5	6.8	123.1	115.3	89.0		F		(D)
2704-7	SWS #3 TO CB #9 (300' NORTH OF CB #9)	6"/18"/1	8.8	123.8	3.4	116.1	112.3	90.7	P			(D)
2704-8	SWS #3 TO CB #9 (200' NORTH OF CB #9)	6"/18"/1	8.8	123.8	3.9	115.7	111.4	90.0	P			(D)
2704-9	SWS #3 TO CB #9 (100' NORTH OF CB #9)	6"/18"/1	8.8	123.8	5.0	117.0	111.4	90.0	P			(D)
2704-10	CB #9 TO MH #11 (100's OF CB #9)	6"/18"/1	8.8	123.8	3.7	113.8	109.8	88.7		F	2704-11	(D)
2704-11	CB #9 TO MH #11 (95's OF CB #9)	6"/18"/1	8.8	123.8	4.2	117.7	113.0	91.2	P			(D)

LAP MATCH TO FIGURE 2



DATE: 27-4-95
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION (9d)

0 100 200
1 inch = 200 ft.

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants

DWG: 3700F001 19950125144 7RT

FIGURE NO.	1
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: 28 day 4 month 95 year

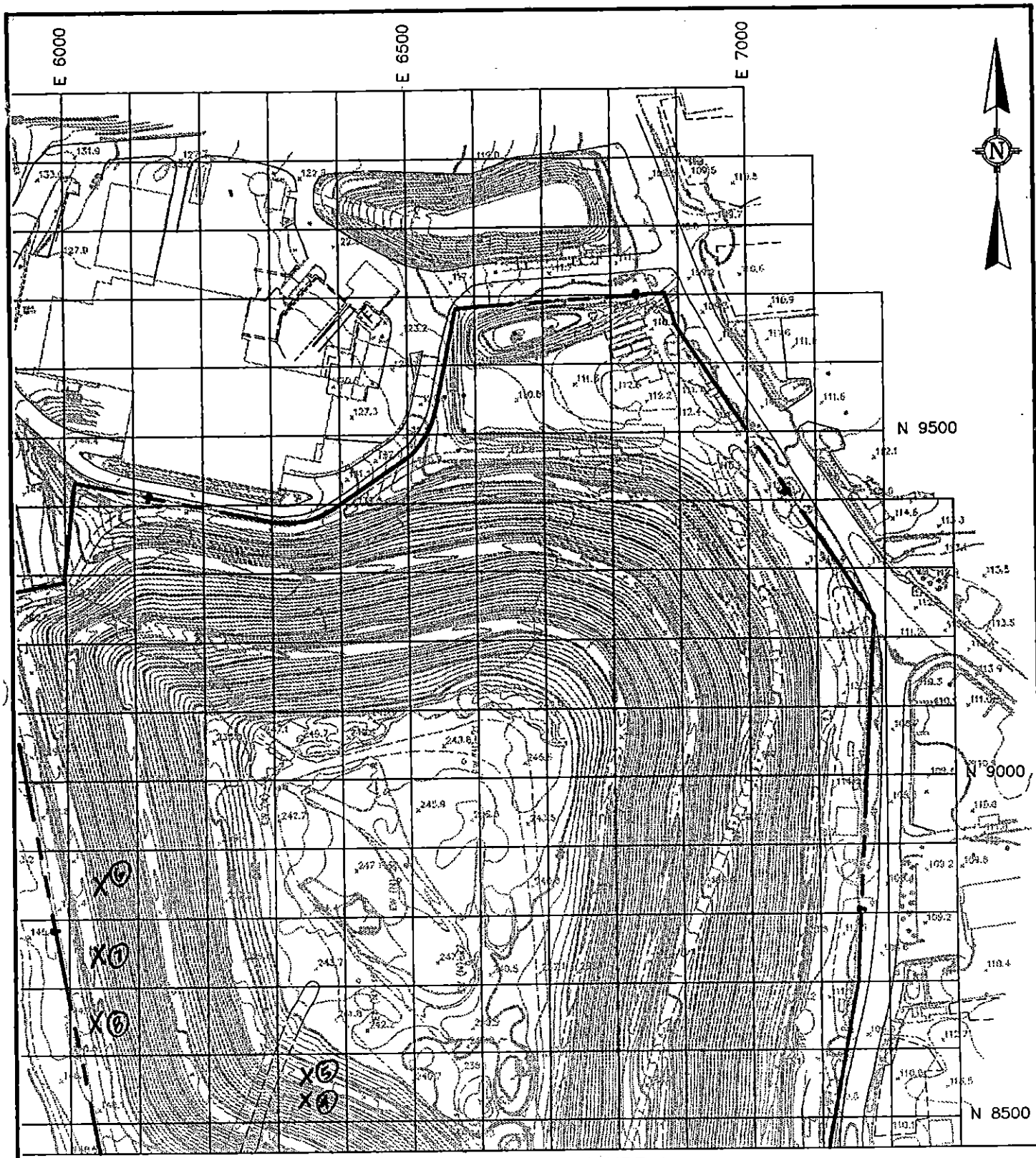
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHLEIDER MATERIAL TYPE: (CIRCLE ONE) FILL / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED)): 12"

% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557: (A) B C (CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 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
2804-1	N8310 ϟ E 7050 JUST BELOW TEST PAD	6"/10"/1	8.3	128.6	5.0	123.9	118.0	91.7	P			(D)
2804-2	N 8240 ϟ E 7045 "	6"/10"/1	8.3	128.6	5.8	121.7	115.1	89.5		F	2804-3	(D)
2804-3	N 8245 ϟ E 7045 "	6"/10"/1	8.3	128.6	5.8	122.4	115.7	90.0	P			(D)
2804-4	N 8550 ϟ E 6440 WEST SLOPE	6"/11"/1	8.5	129.5	6.9	120.9	113.0	87.3		F		(D)
2804-5	N 8500 ϟ E 6440 "	6"/11"/1	8.5	129.5	6.4	119.5	112.3	86.7		F		(D)
2804-6	N 8850 ϟ E 6040 "	6"/10"/1	8.5	129.5	5.9	120.0	113.4	87.6		F		(D)
2804-7	N 8740 ϟ E 6040 "	6"/9"/1	8.5	129.5	6.6	119.4	112.0	86.5		F		(D)
2804-8	N 8645 ϟ E 6035 "	6"/10"/1	8.5	129.5	6.1	121.1	114.2	88.2		F		(D)



DATE: 28-4-95
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION (92)

LAP MATCH TO FIGURE 1

0 100 200

1 inch = 200 ft.

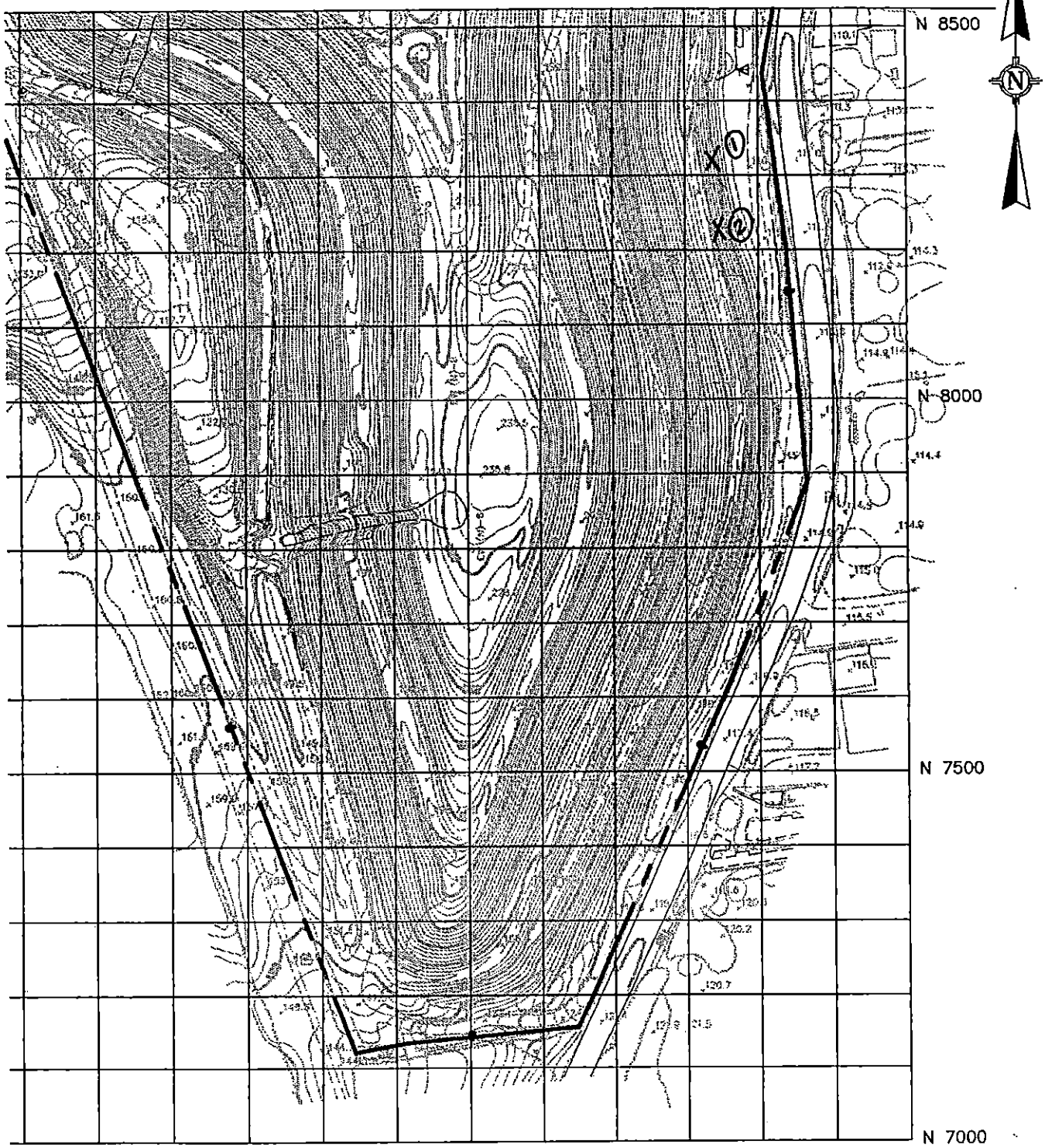
100 FOOT FIELD TESTING GRID

GeoSyntec Consultants

DWG: 3700F001 199501251447RT

FIGURE NO.	2
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	

LAP MATCH TO FIGURE 2



DATE: 28-4-95
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION (90)

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants

FIGURE NO.	1
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	

DWG: 3700F001 199501251447RT

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 5 month 95 year

SPECIFICATION REQUIREMENTS

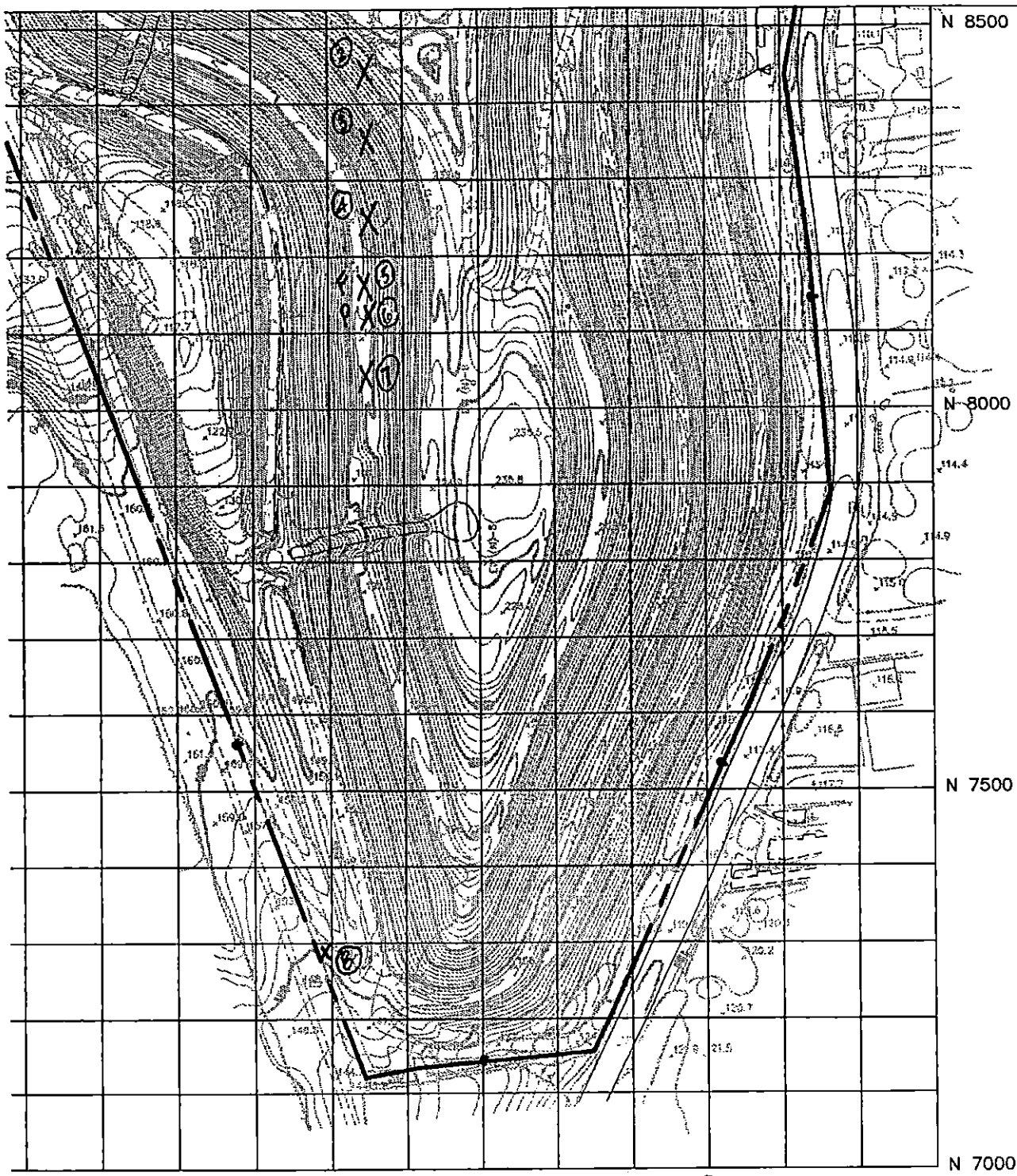
SOURCE: R. SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/COMPACTED): 12"
(CIRCLE ONE)

% COMPACTION: ≥ 90% MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557: A) B C
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER NUCLEAR GAUGE SERIAL NO. 17198 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
0305-1	N 8550 ' E 6550	6"/11"/1	8.5	129.5	10.1	130.8	118.8	91.7	P			
0305-2	N 8440 ' E 6540	6"/10"/1	8.5	129.5	9.0	129.4	118.7	91.6	P			
0305-3	N 8345 ' E 6540	6"/10"/1	8.5	129.5	9.6	127.8	116.6	90.0	P			
0305-4	N 8250 ' E 6530	6"/9"/1	8.5	129.5	9.7	129.5	118.1	91.2	P			
0305-5	N 8140 ' E 6545	6"/10"/1	8.5	129.5	7.5	122.9	114.3	88.3		F	0205-6	
0305-6	N 8150 ' E 6555	6"/8"/1	8.5	129.5	7.9	125.8	116.6	90.0	P			
0305-7	N 8050 ' E 6550	6"/9"/1	8.5	129.5	7.7	125.6	116.6	90.0	P			
0305-8	N 7290 ' E 6490	6"/8"/1	8.5	129.5	11.2	131.3	118.0	91.1	P			

LAP MATCH TO FIGURE 2



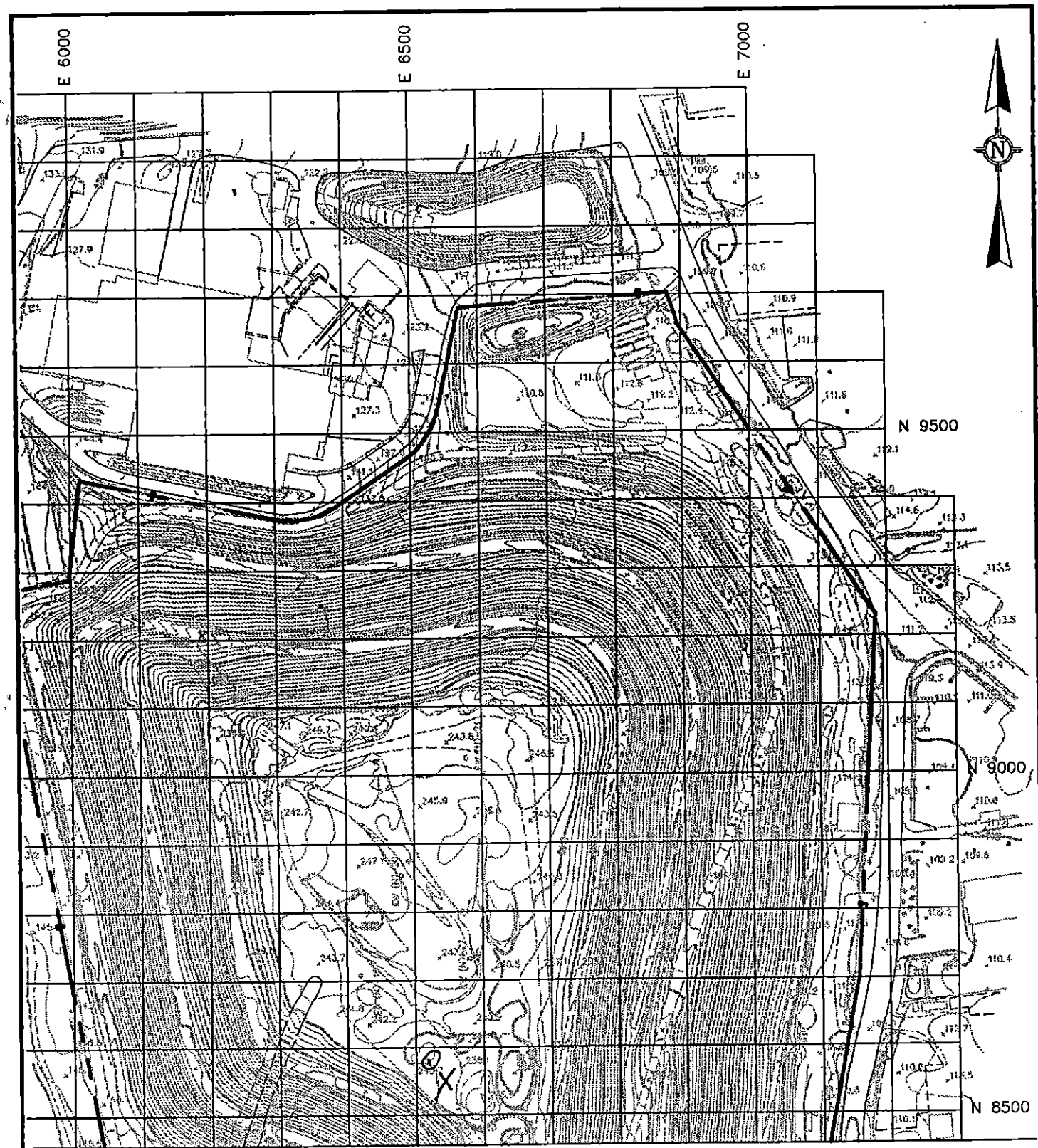
DATE: 4-6-95
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants

DWG: 3700F001 199501251447RT

FIGURE NO.	1
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	



LAP MATCH TO FIGURE 1

0 100 200

1 inch = 200 ft.

DATE: 4-5-95
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION

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: 4 day May month 1995 year

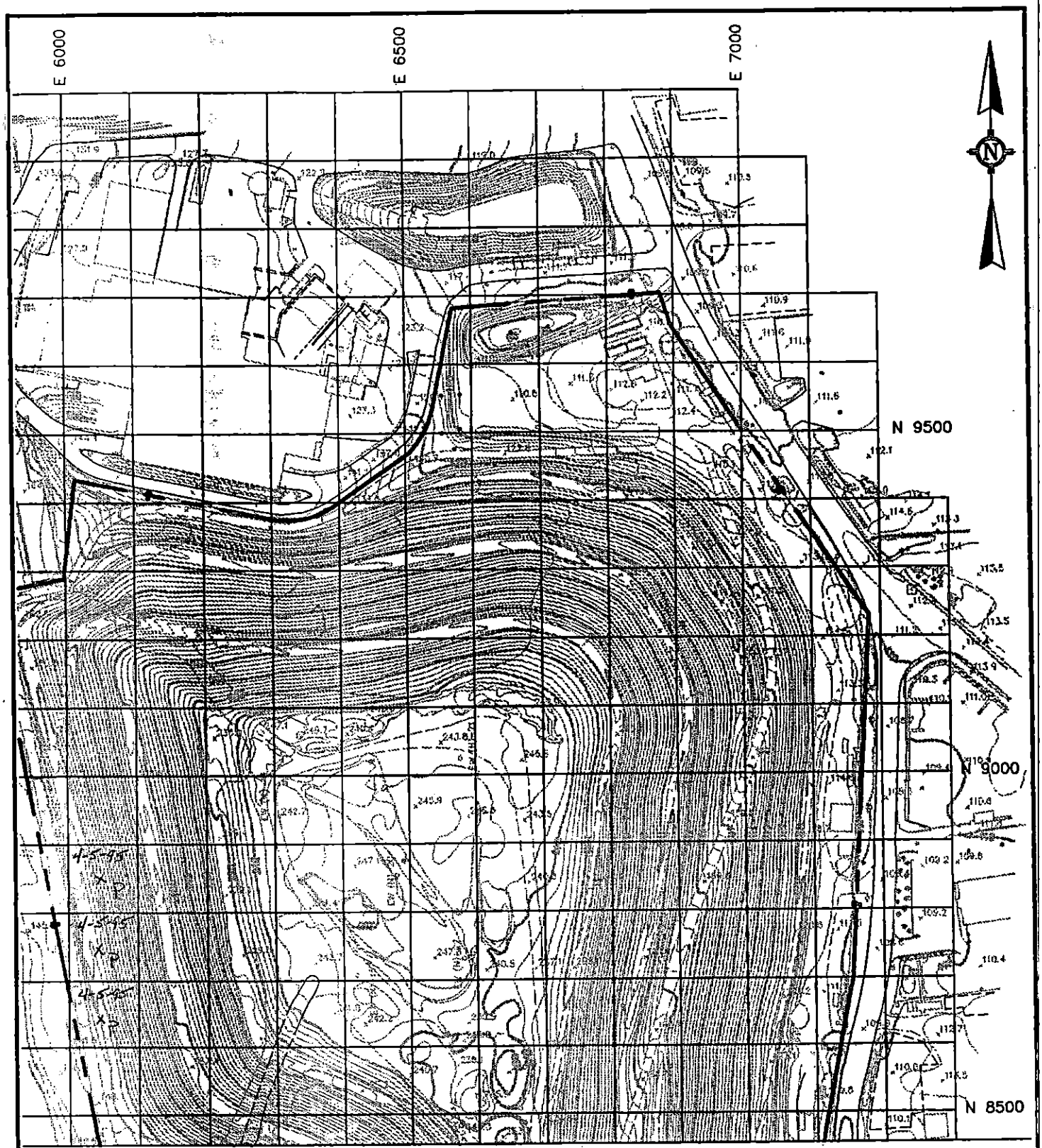
SPECIFICATION REQUIREMENTS

SOURCE: R. Schleider MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED)): 12"
(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. 17988 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		
040595-1	N 8250 E 6850	6"/9"/L1	8.5	129.5	7.3	126.5	117.9	91.1	P			GD
-2	N 8350 E 6840	6"/9"/L1			7.1	127.5	119.0	91.9	P			GD
-3	N 8050 E 6850	6"/9"/L1			8.1	134.2	124.2	95.9	P			GD
-4	N 7950 E 6840	6"/9"/L1			5.4	129.7	123.0	95.0	P			GD
-5	N 7900 E 6860	6"/9.5"/L1			5.6	129.1	122.3	94.4	P			GD
-6	N 8850 E 6050	6"/11"/L1			7.0	127.4	119.2	92.1	P			GD
-7	N 8750 E 6050	6"/10"/L1			7.3	129.6	120.9	93.3	P			GD
-8	N 8650 E 6050	6"/10"/L1			7.0	125.9	117.7	90.9	P			GD



LAP MATCH TO FIGURE 1

0 100 200

1 inch = 200 ft.

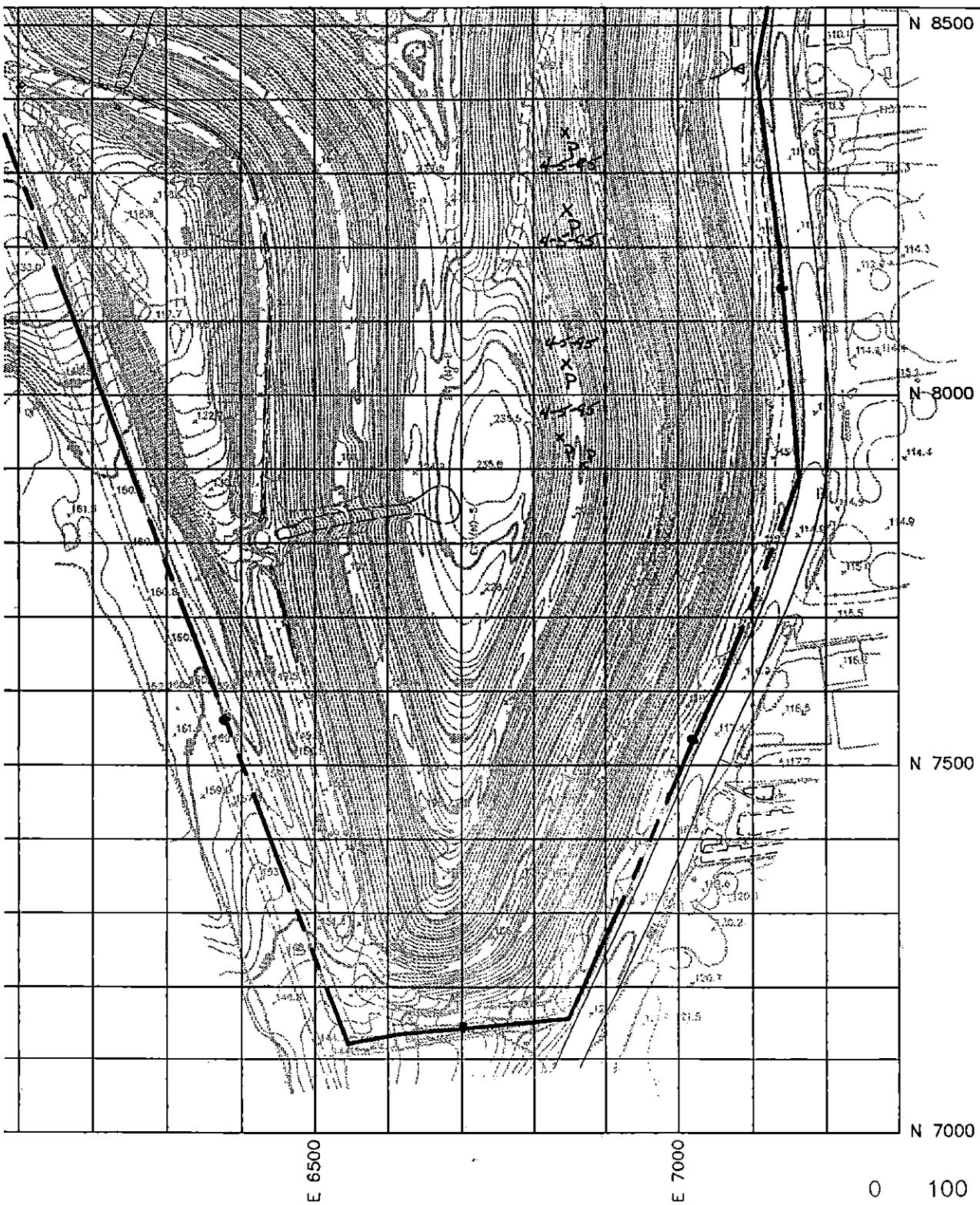
100 FOOT FIELD TESTING GRID

GeoSyntec Consultants

DWG: 3700F001 19950125144 7RT

FIGURE NO.	2
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	

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.	

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: 05 day 05 month 1995 year

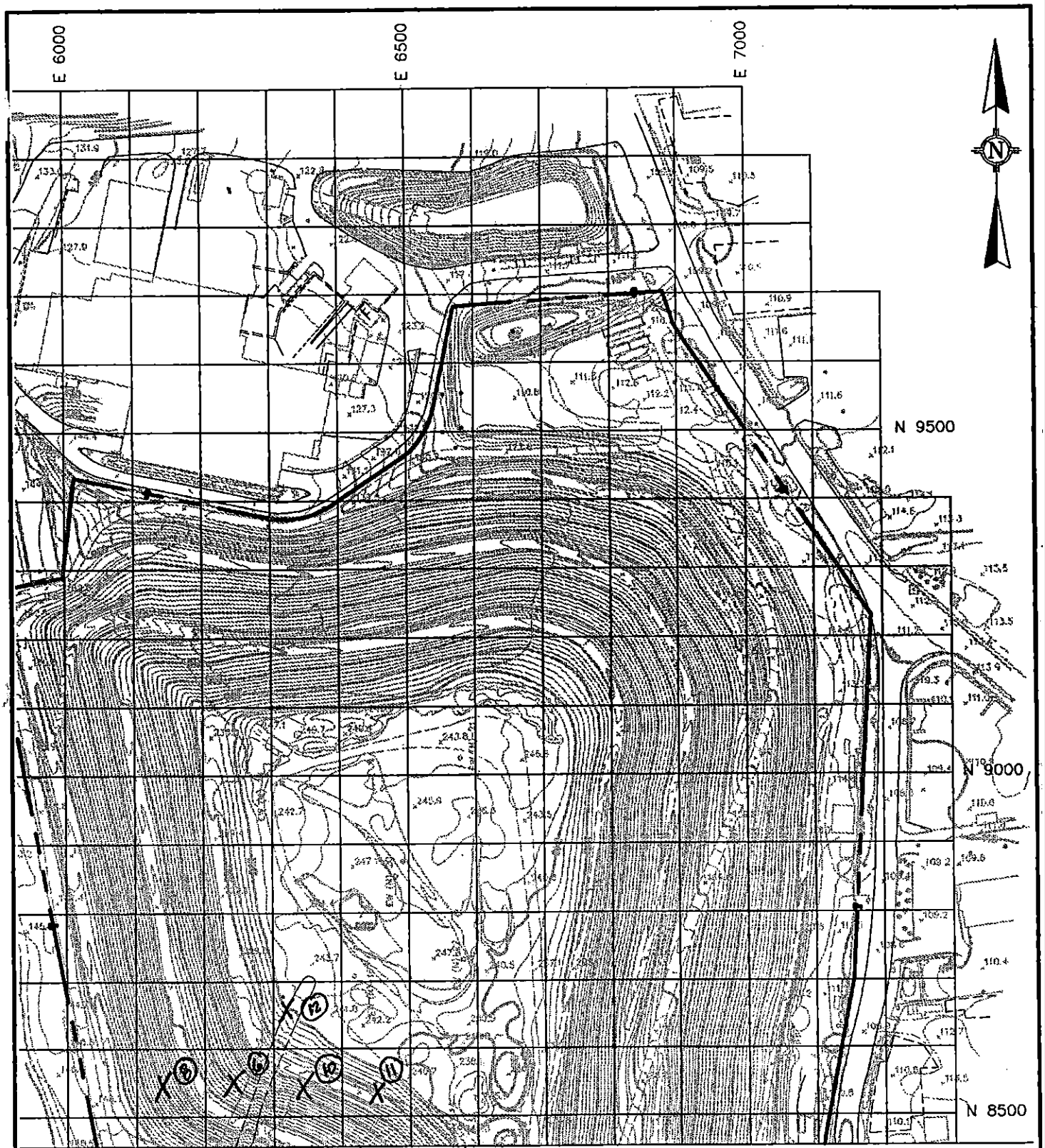
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHEILDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED): 12"
(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
0505-1	N 7250 & E 6650	6"/8"/1	8.5	129.5	8.6	129.5	119.3	92.1	P			GD
0505-2	N 7260 & E 6750	6"/8"/1	8.5	129.5	8.1	127.6	118.0	91.1	P			GD
0505-3	N 7275 & E 6860	6"/9"/1	8.5	129.5	6.4	127.9	120.2	92.8	P			GD
0505-4	N 7360 & E 6860	6"/8"/1	8.5	129.5	7.4	130.3	121.3	93.7	P			GD
0505-5	N 8450 & E 6340	6"/10"/1	8.5	129.5	6.7	128.2	120.2	92.8	P			GD
0505-6	N 8560 & E 6250	6"/9"/1	8.5	129.5	5.9	124.2	117.4	90.5	P			GD
0505-7	N 8465 & E 6230	6"/9"/1	8.5	129.5	7.5	127.8	118.9	91.8	P			GD
0505-8	N 8550 & E 6150	6"/10"/1	8.5	129.5	8.4	126.5	116.7	90.1	P			GD
0505-9	N 8460 & E 6160	6"/9"/1	8.5	129.5	6.2	125.2	117.9	91.0	P			GD
0505-10	N 8550 & E 6350	6"/10"/1	8.5	129.5	7.5	128.5	119.6	92.4	P			GD
0505-11	N 8540 & E 6430	6"/10"/1	8.5	129.5	6.5	128.0	120.2	92.8	P			GD
0505-12	N 8660 & E 6325	6"/10"/1	8.5	129.5	7.4	132.6	123.5	95.3	P			GD
0505-13	N 7750 & E 6850	6"/8"/1	8.5	129.5	6.4	129.3	121.5	93.8	P			GD
0505-14	N 7640 & E 6840	6"/9"/1	8.5	129.5	9.2	128.6	117.7	90.9	P			GD
0505-15	N 7550 & E 6840	6"/9"/1	8.5	129.5	7.2	126.2	117.8	90.9	P			GD



LAP MATCH TO FIGURE 1

DATE: 05-05-95
COMMON FILL
NUCLEAR DENSITY
TEST RESULTS (24)

100 FOOT FIELD TESTING GRID

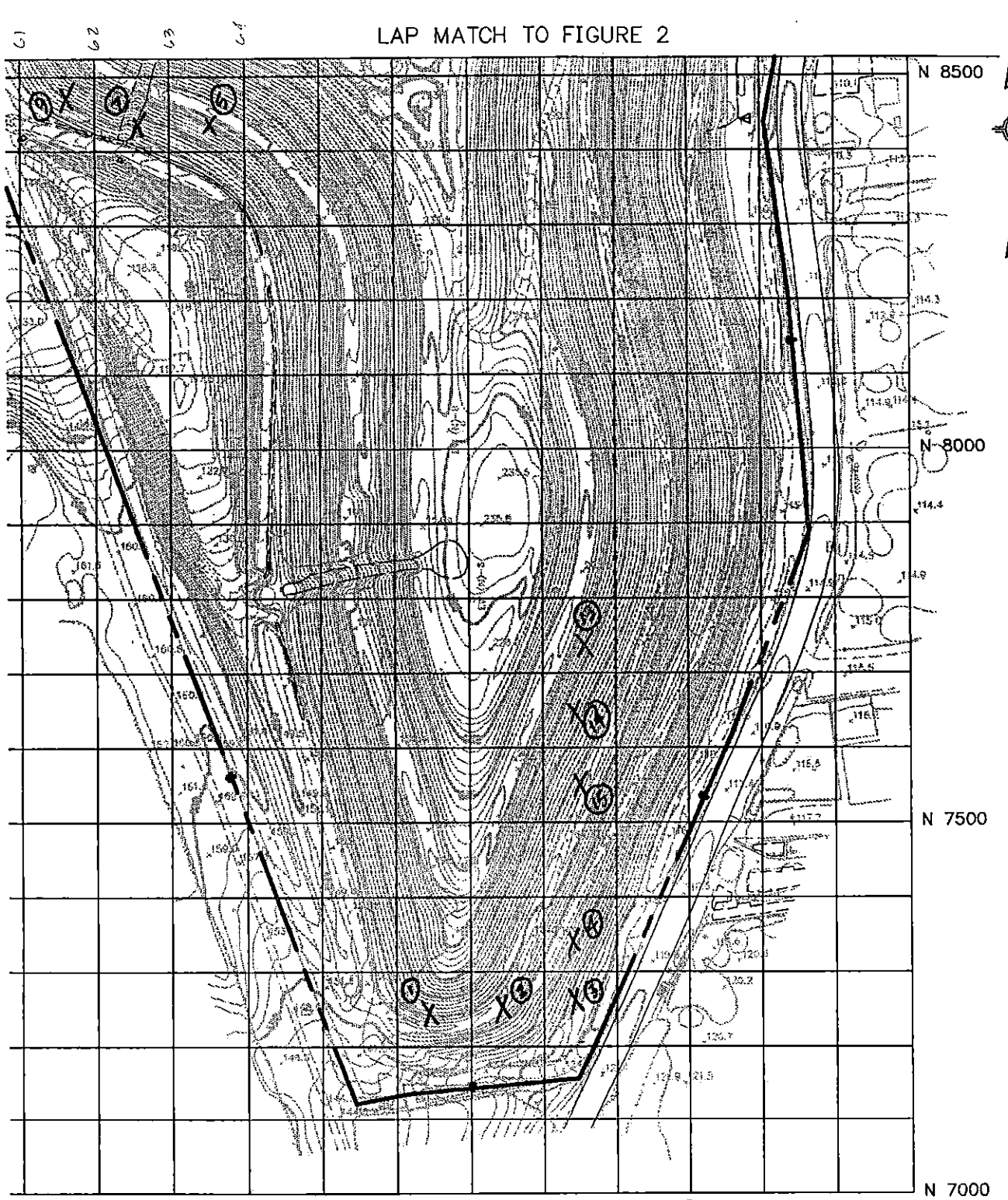
0 100 200

1 inch = 200 ft.

GeoSyntec Consultants

DWG: 3700F001 199501251447RT

FIGURE NO.	2
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	



DATE: 05-05-95
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION (98)

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants

DWG: 3700F001 199501251447RT

FIGURE NO.	1
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: 08 day 05 month 1995 year

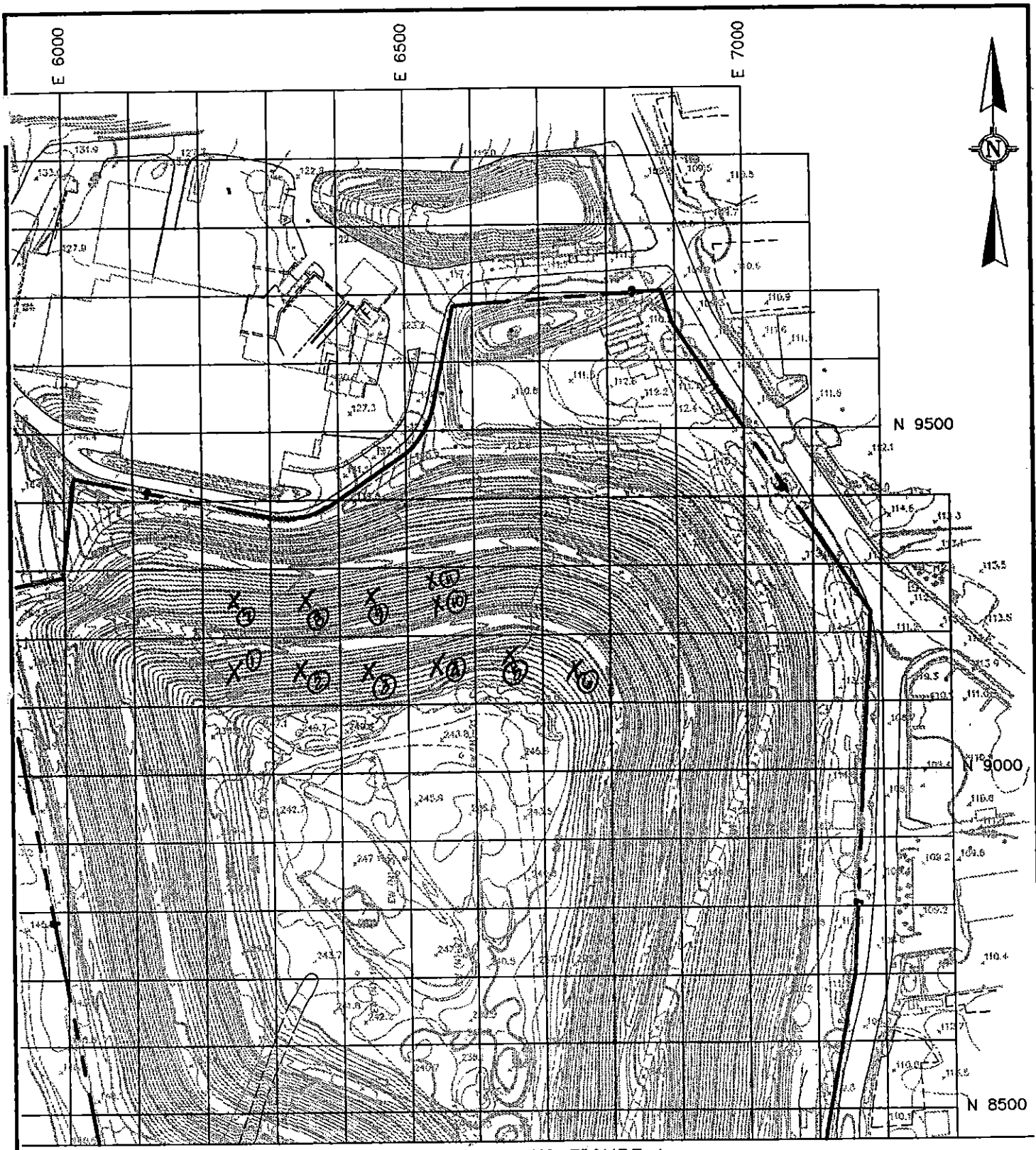
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/COMPACTED): 12"
(CIRCLE ONE)

% COMPACTION: ≥ 90% MOISTURE RANGE: ±2% of OMC 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
0805-1	N 9150 & E 6240	6"/10"/1	8.5	129.5	7.9	126.4	117.1	90.5	P			D
0805-2	N 9150 & E 6350	6"/10"/1	8.5	129.5	7.4	126.6	117.9	91.0	P			D
0805-3	N 9145 & E 6440	6"/9"/1	8.5	129.5	7.0	128.5	120.1	92.8	P			D
0805-4	N 9150 & E 6560	6"/10"/1	8.5	129.5	6.6	128.9	121.0	93.4	P			D
0805-5	N 9140 & E 6660	6"/8"/1	8.5	129.5	5.4	127.3	120.8	93.3	P			D
0805-6	N 9150 & E 6750	6"/8"/1	8.5	129.5	6.2	128.0	120.5	93.0	P			D
0805-7	N 9250 & E 6250	6"/9"/1	8.5	129.5	6.5	125.8	118.1	91.2	P			D
0805-8	N 9240 & E 6340	6"/8"/1	8.5	129.5	7.6	125.3	116.5	90.0	P			D
0805-9	N 9260 & E 6450	6"/9"/1	8.5	129.5	6.9	127.7	119.4	92.2	P			D
0805-10	N 9230 & E 6665	6"/9"/1	8.5	129.5	7.0	122.3	114.3	88.2		F	0805-11	D
0805-11	N 9260 & E 6530	6"/8"/1	8.5	129.5	6.0	124.6	117.6	90.8	P			D



LAP MATCH TO FIGURE 1

0 100 200

1 inch = 200 ft.

08-09-95
COMMON FILL
NUCLEAR DENSITY
TEST RESULTS (20)

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: 09 day 05 month 1995 year

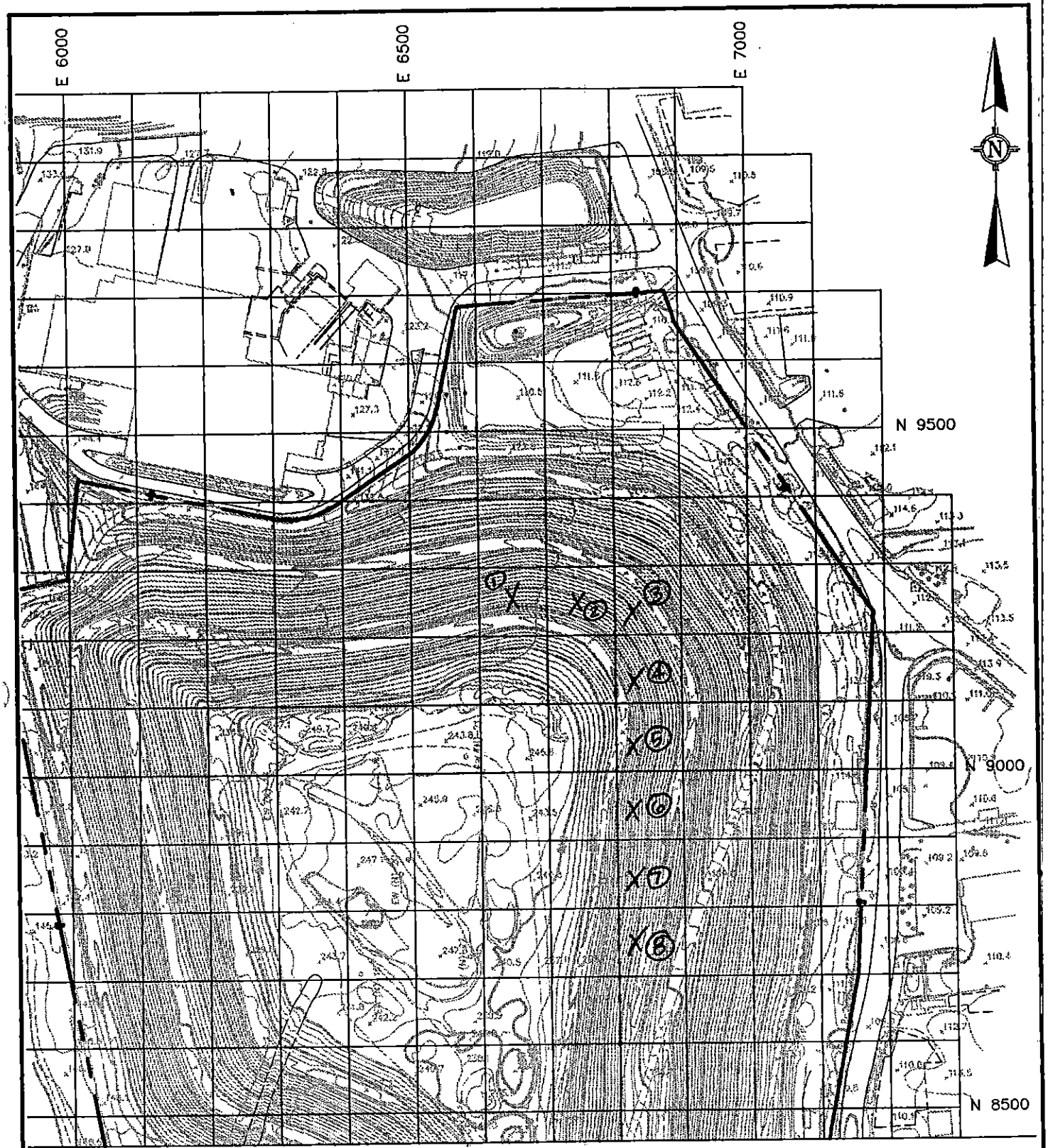
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED)): ≤ 12"
(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/ ~~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
0905-1	N 9250 & E 6650	6"/9"/1	8.5	129.5	6.3	125.6	118.1	91.2	P			(QD)
0905-2	N 9240 & E 6740	6"/8"/1	8.5	129.5	6.5	127.2	119.5	92.2	P			(QD)
0905-3	N 9230 & E 6830	6"/9"/1	8.5	129.5	6.0	127.4	120.1	92.8	P			(QD)
0905-4	N 9145 & E 6840	6"/8"/1	8.5	129.5	7.1	128.2	119.7	92.4	P			(QD)
0905-5	N 9050 & E 6850	6"/8"/1	8.5	129.5	6.8	128.3	120.1	92.8	P			(QD)
0905-6	N 8960 & E 6840	6"/10"/1	8.5	129.5	6.8	128.1	120.0	92.6	P			(QD)
0905-7	N 8855 & E 6850	6"/9"/1	8.5	129.5	7.4	128.5	119.7	92.4	P			(QD)
0905-8	N 8750 & E 6850	6"/9"/1	8.5	129.5	6.6	129.5	121.6	93.9	P			(QD)



DATE : 09-05-95
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION (92)

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: 11 day 05 month 1995 year

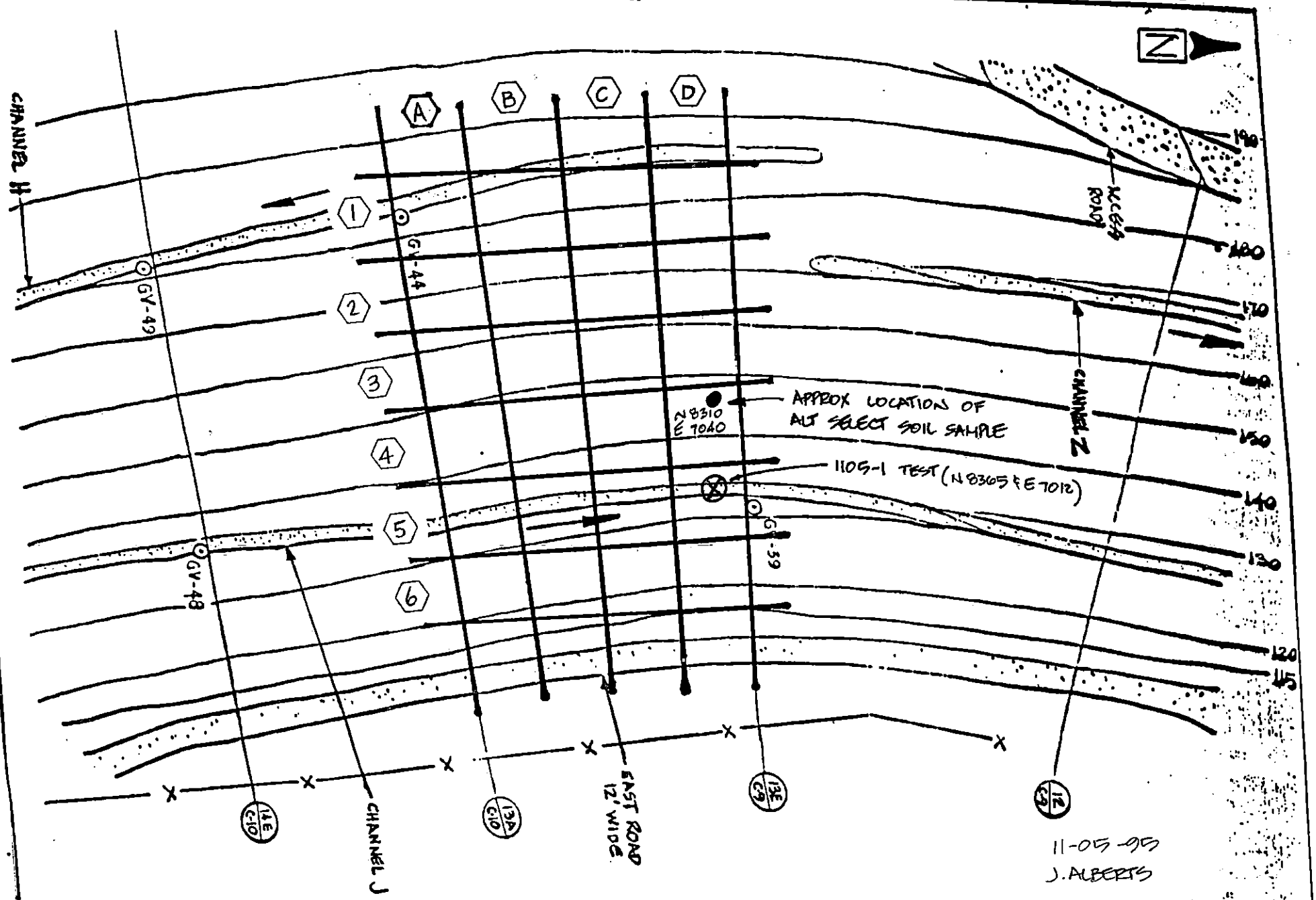
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON (CIRCLE ONE) LIFT THICKNESS (LOOSE/COMPACTED): 12"

% COMPACTION: ≥90% MOISTURE RANGE: ±2% OF OMC 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 (%)	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
1105-1	N8365 & E7012 (CHANNEL) ANCHOR TRENCH ± 30' SOUTH OF SECTION 13E	6"/18±"/1	8.5	129.5	7.8	130.4	121.0	93.4	P			(QD)



11-05-95
J. ALBERTS

TEST PAD LOCATION MAP (30' GRID)

SCALE 1" = 50'

GeoSyntec Consultants

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 05 month 1995 year

SPECIFICATION REQUIREMENTS

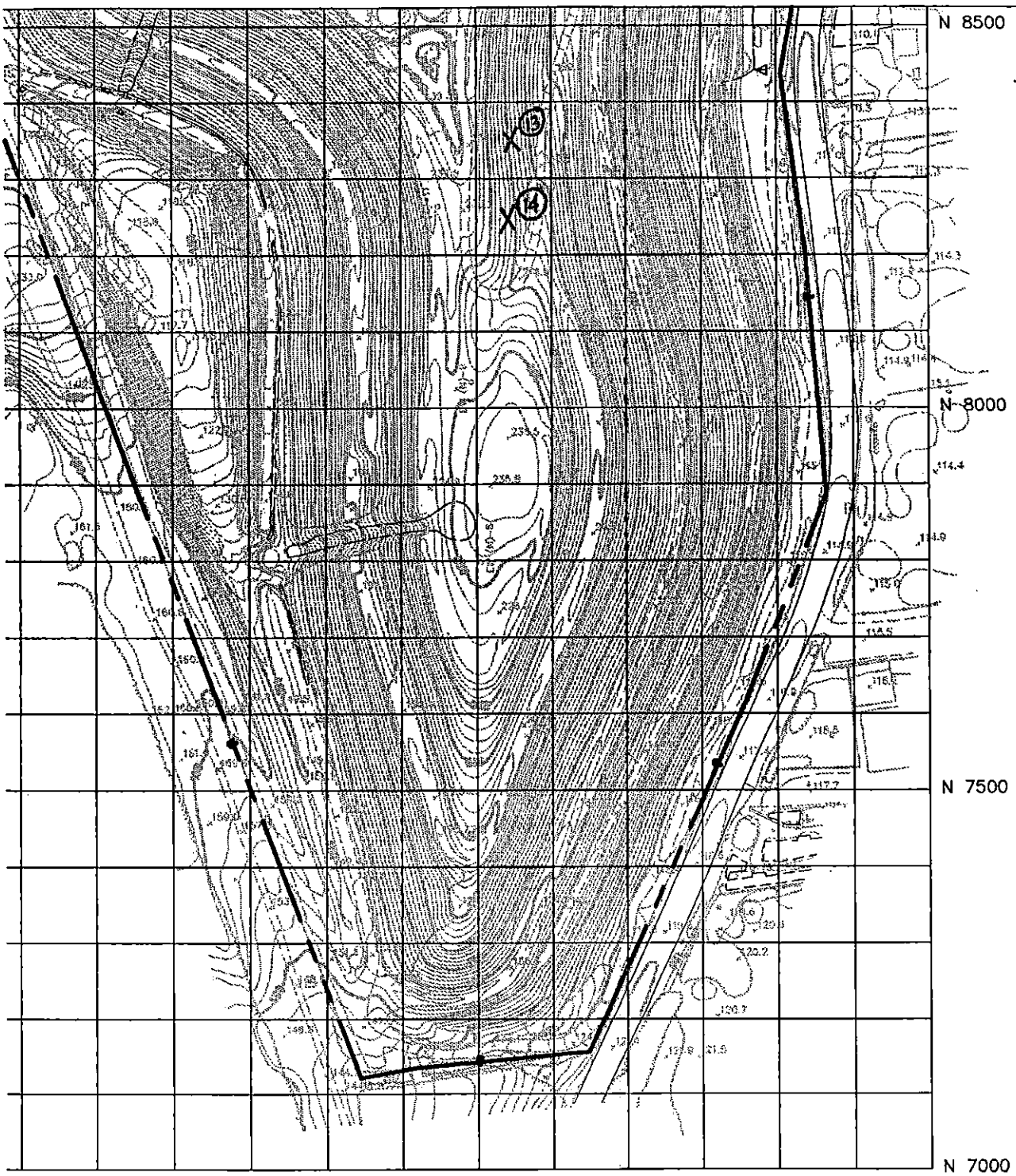
SOURCE: R. SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED)): 12"

% 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 / 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
1205-1	N 9370 & E 6070 NORTH SLOPE	6"/8"/1	8.5	129.5	8.9	128.8	118.2	91.3	P			(78)
1205-2	N 9350 & E 6150 NORTH SLOPE	6"/10"/1	8.5	129.5	8.8	127.1	116.8	90.2	P			(79)
1205-3	N 8120 & E 6870 CHANNEL H ANCHOR	6"/18±/1	8.5	129.5	6.5	124.2	116.6	90.0	P			(80)
1205-4	N 8145 & E 6872 "	6"/18±/1	8.5	129.5	7.1	127.4	119.0	91.9	P			(81)
1205-5	N 8170 & E 6875 "	6"/18±/1	8.5	129.5	6.7	124.4	116.6	90.1	P			(82)
1205-6	N 8245 & E 6883 "	6"/18±/1	8.5	129.5	5.9	126.0	119.0	91.9	P			(83)
1205-7	N 8117 & E 6980 CHANNEL J ANCHOR	6"/18±/1	8.5	129.5	7.4	127.2	118.4	91.4	P			(84)
1205-8	N 8165 & E 7015 "	6"/18±/1	8.5	129.5	7.2	129.4	120.8	93.3	P			(85)
1205-9	N 8200 & E 7020 "	6"/18±/1	8.5	129.5	6.7	124.4	116.6	90.0	P			(86)
1205-10	N 8650 & E 6840 EAST SLOPE	6/8"/1	8.5	129.5	9.3	133.2	121.9	94.2	P			(87)
1205-11	N 8560 & E 6825 "	6"/10"/1	8.5	129.5	8.9	128.1	117.7	90.9	P			(88)
1205-12	N 8450 & E 6820 "	6"/8"/1	8.5	129.5	11.4	133.1	119.5	92.3	P			(89)
1205-13	N 8365 & E 6770 "	6"/9"/1	8.5	129.5	8.7	135.9	125.1	96.6	P			(90)
1205-14	N 8250 & E 6760 "	6"/8"/1	8.5	129.5	9.3	132.3	121.1	93.5	P			(91)

LAP MATCH TO FIGURE 2



DATE: 12-05-95
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION

0 100 200

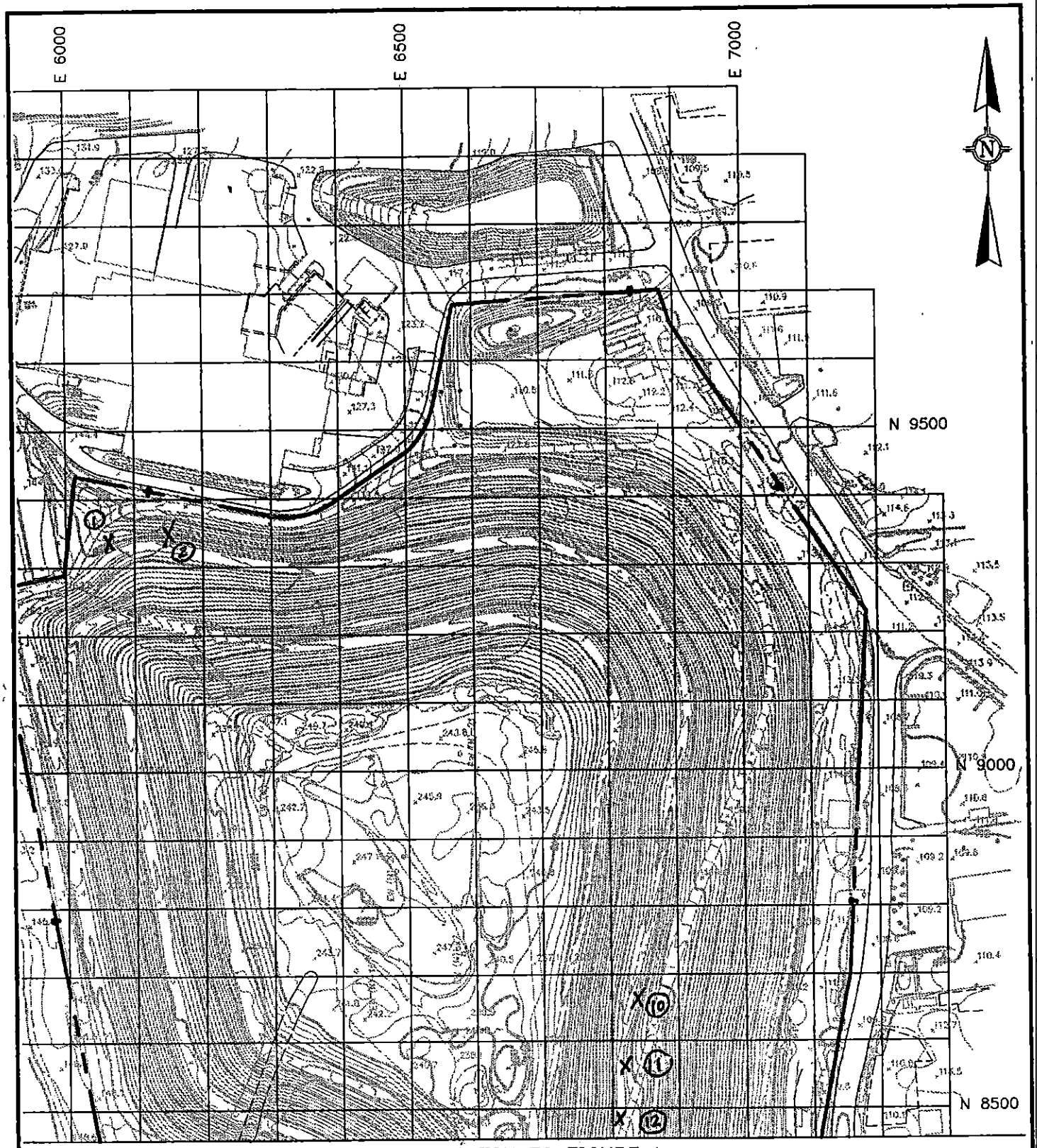
1 inch = 200 ft.

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants

DWG: 3700F001 199501251447RT

FIGURE NO.	1
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	



DATE: 12-05-95
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION

LAP MATCH TO FIGURE 1

0 100 200

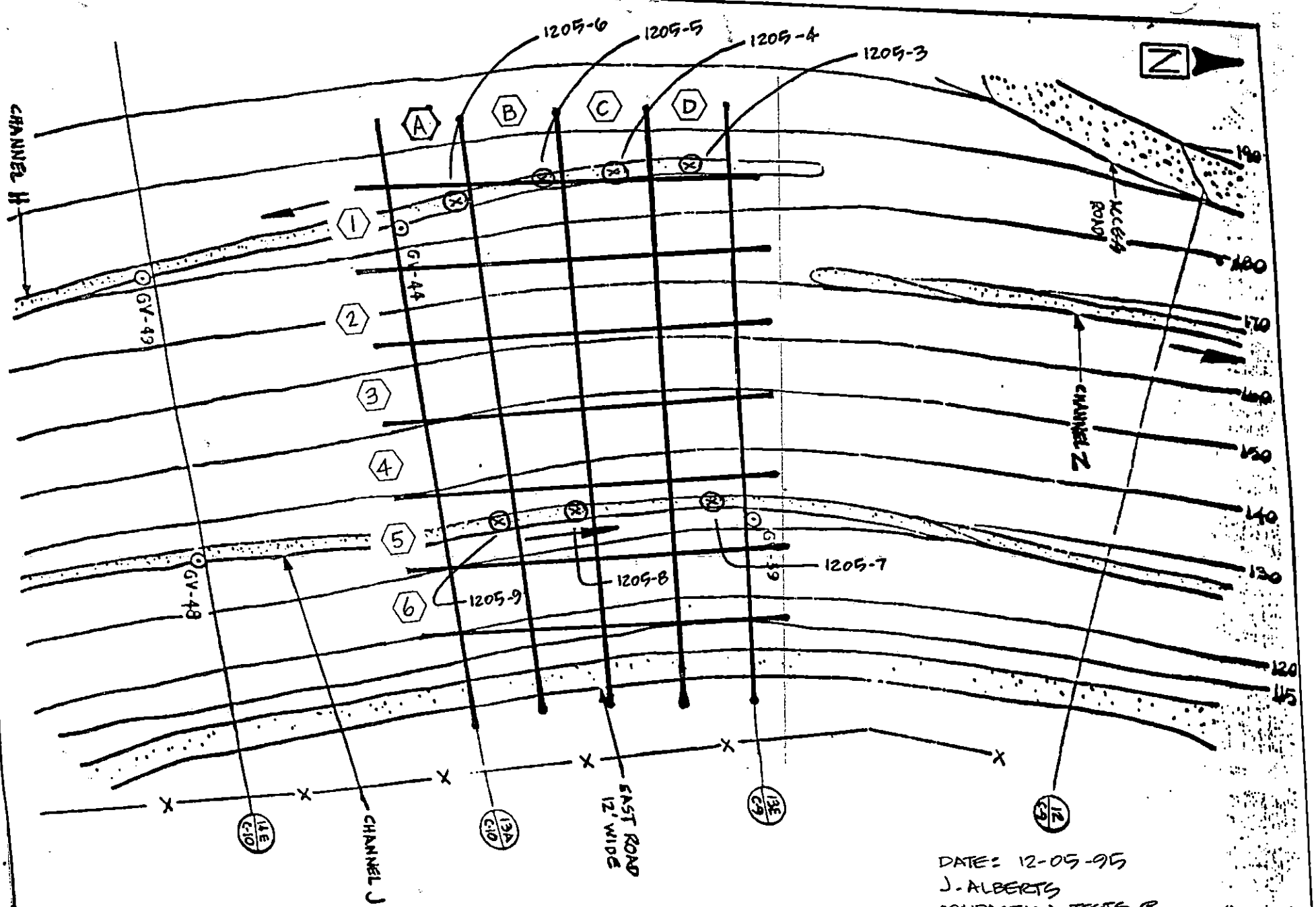
1 inch = 200 ft.

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants

DWG: 3700F001 199501251447RT

FIGURE NO.	2
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	



TEST PAD LOCATION MAP (30' GRID)

SCALE 1" = 50'

DATE: 12-05-95
J. ALBERTS
COMPACTION TESTS @
TEST PAD ANCHOR TRENCHES

GEOSYNTEC CONSULTANTS

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 May month 1995 year

SPECIFICATION REQUIREMENTS

SOURCE: R Schleder MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED)): 12"

% COMPACTION: ≥ 90% MOISTURE RANGE: ±2% of OMC 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		
1705795-1	N9250 E5950	6"/10"/L:1	8.5	129.5	6.1	126.0	118.8	91.7	P			GD
-2	N9350 E6050	↓	↓	↓	6.5	121.4	114.0	88.0		F	1505795-3	GD
-3	N9350 E6000				6.2	124.7	117.4	90.7	P			GD
-4	N9300 E6150	↓			6.0	123.6	116.6	90.0	P			GD
-5	N9340 E6255	6"/9"/L:1			5.6	126.1	119.3	92.1	P			GD
-6	N9350 E6350	6"/10"/L:1			8.2	122.4	113.1	87.3		F	1505795-7	GD
-7	N9355 E6345	↓			5.4	122.6	116.3	90.0	P			GD
-8	N9350 E6450	6"/9"/L:1			6.1	126.8	119.5	92.3	P			GD
-9	N9350 E6555	6"/8"/L:1			7.2	131.8	122.9	94.9	P			GD
-10	N9345 E6650	↓			7.3	129.5	120.7	93.2	P			GD
-11	N9360 E6740	6"/9"/L:1			8.2	130.5	120.6	93.1	P			GD
-12	N9350 E6845	6"/10"/L:1			6.0	124.6	117.5	90.7	P			GD
-13	N9355 E6950	↓			6.4	130.7	122.8	94.8	P			GD
-14	N9250 E6960	6"/11/L:1	↓	↓	6.0	126.5	119.4	92.2	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: 17 day May month 1995 year

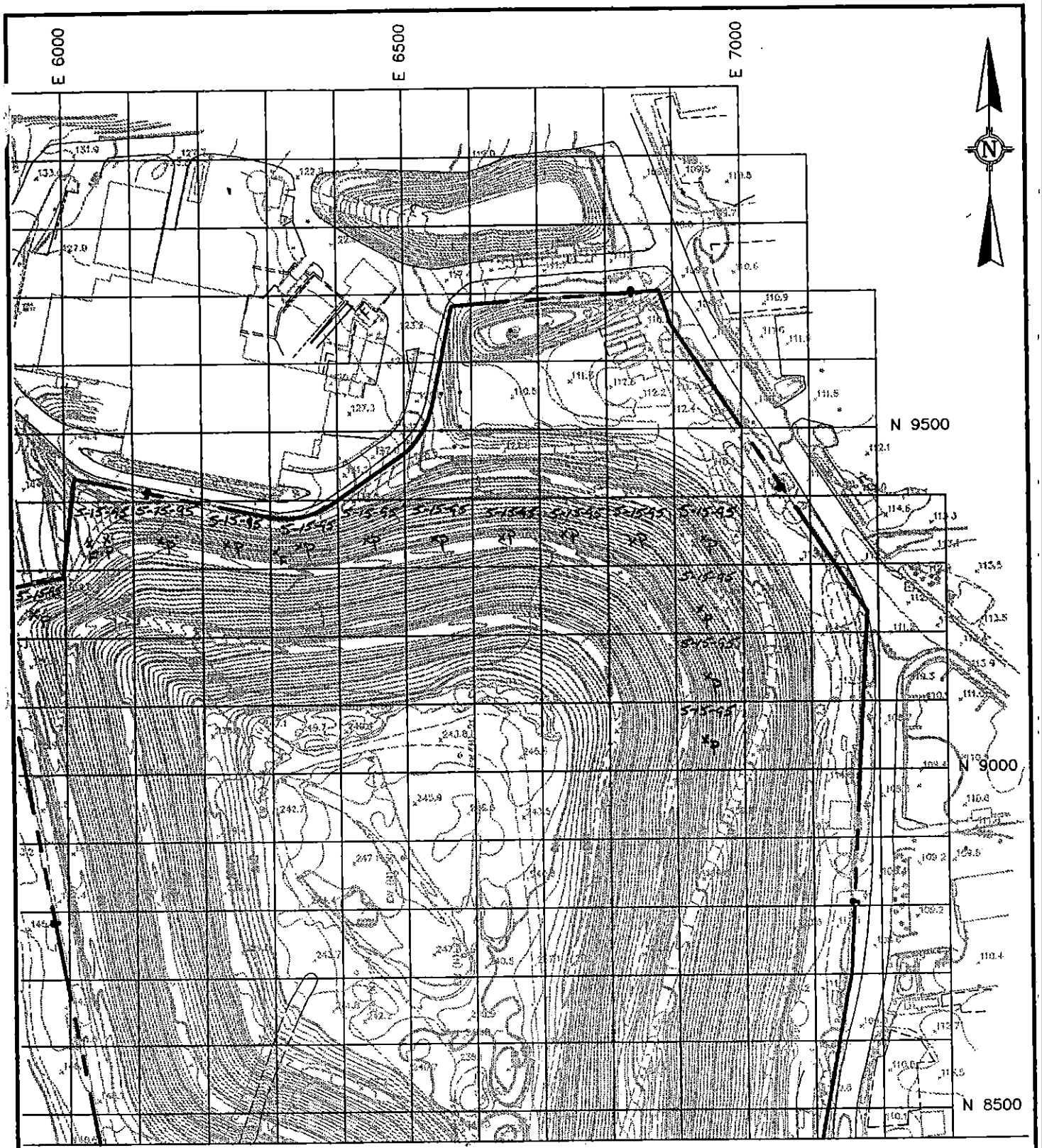
SPECIFICATION REQUIREMENTS

SOURCE: R. Schleider MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED)): 12"

% 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		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		
1105SS-15	N9155 E6955	6"/8"/L:1	8.5	129.5	5.9	127.7	120.6	93.1	P			GD
-16	N9050 E6950	6"/10"/L:1	↓	↓	5.4	122.9	116.6	90.1	P			GD



LAP MATCH TO FIGURE 1

0 100 200

1 inch = 200 ft.

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants

FIGURE NO.	2
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	

DWG: 3700F001 199501251447RT

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 5 month 1995 year

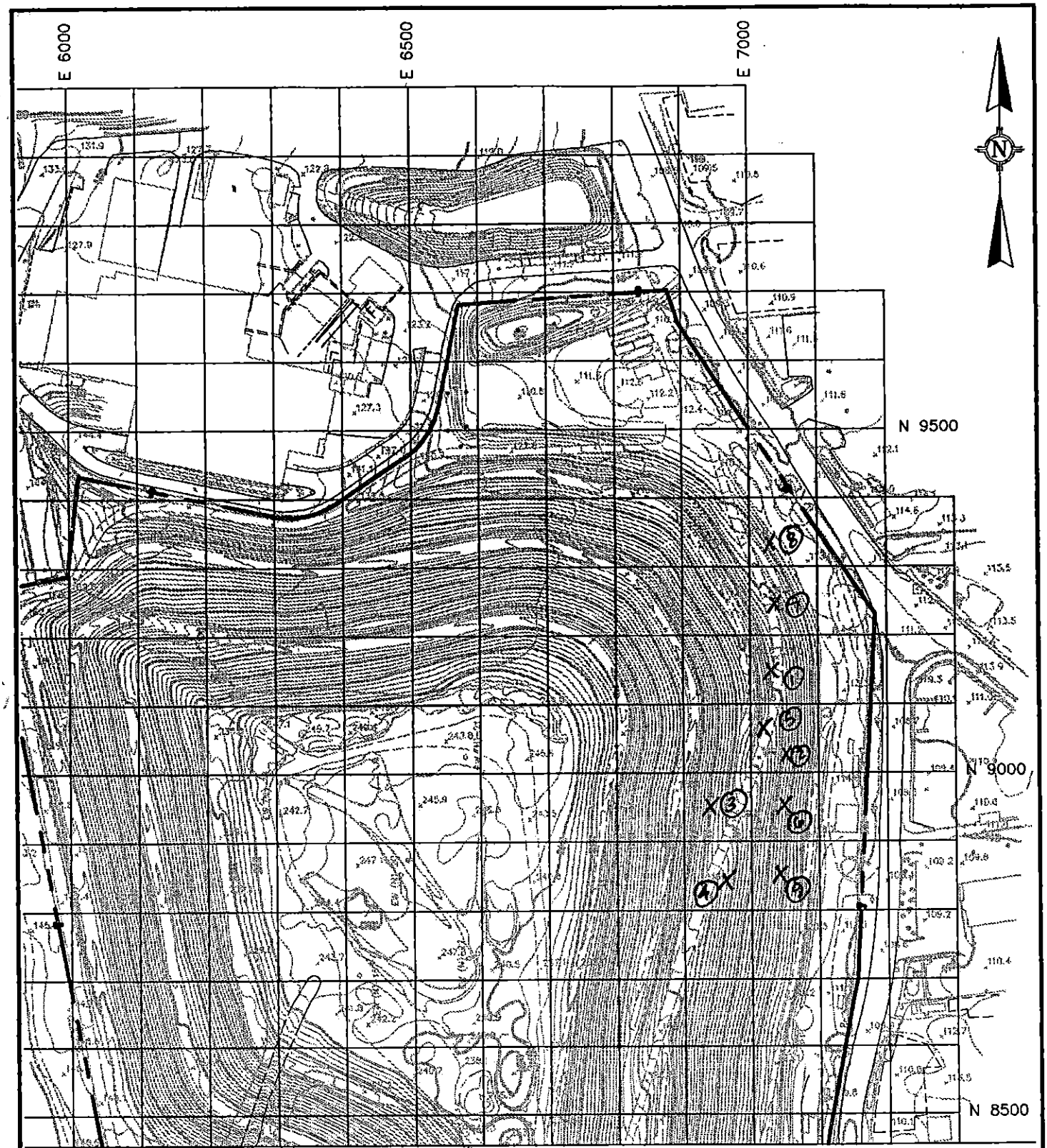
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE / (COMPACTED)) ≤12"
(CIRCLE ONE)

% COMPACTION: ≥90% MOISTURE RANGE: ±2% of OMC 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 / 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
2205-1	N9150 & E7050 EAST SLOPE COMMON	6"/9"/1	8.5	129.5	4.6	121.9	116.5	90.0	P			(QD)
2205-2	N9050 & E7050 "	6"/9"/1	8.5	129.5	5.8	118.8	112.3	86.7		F	2205-5	(QD)
2205-3	N8950 & E6950 "	6"/9"/1	8.5	129.5	7.4	126.0	117.3	90.6	P			(QD)
2205-4	N8850 & E6940 "	6"/10"/1	8.5	129.5	7.6	117.8	109.5	84.6		F	2205-9	(QD)
2205-5	N8940 & E7040 "	6"/9"/1	8.5	129.5	9.4	127.4	116.5	90.0	P			(QD)
2205-6	N8945 & E7050 "	6"/9"/1	8.5	129.5	10.1	128.2	116.5	90.0	P			(QD)
2205-7	N9240 & E7045 "	6"/10"/1	8.5	129.5	5.0	123.7	117.7	90.9	P			(QD)
2205-8	N9350 & E7050 "	6"/10"/1	8.5	129.5	6.0	127.1	119.9	92.6	P			(QD)
2205-9	N8860 & E7040 "	6"/9"/1	8.5	129.5	10.1	135.1	122.7	94.8	P			(QD)



DATE: 22-05-9
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION

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: 23 day 5 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: R SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED)): <12"
(CIRCLE ONE)

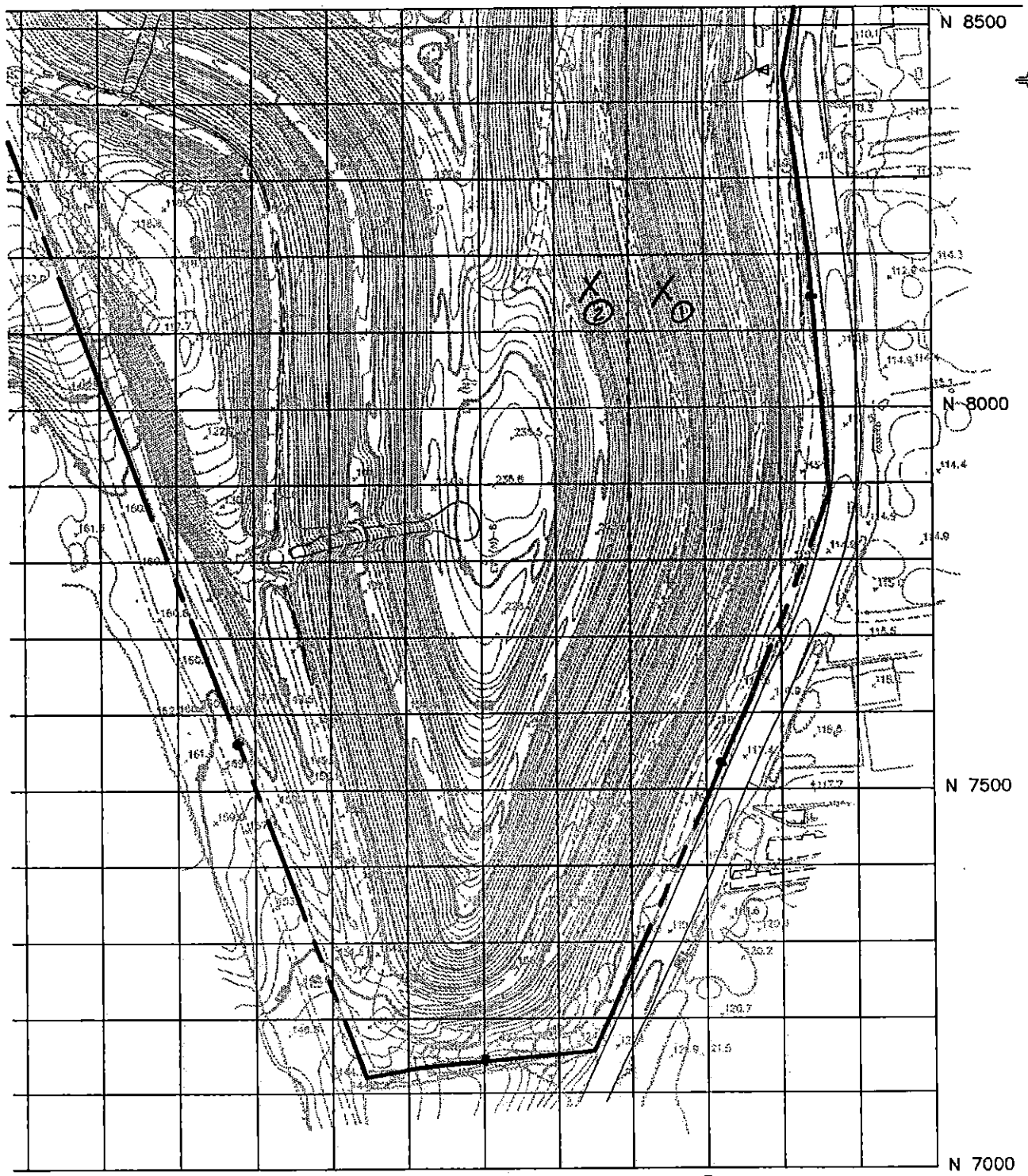
% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557: A) B C
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		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		
2305-1	CHANNEL "D" 35' N OF GN #28	6"/12"±/1	8.5	129.5	9.6	108.8	99.2	76.6		F*	2305-6	
2305-2	CHANNEL "D" 80' N OF GN #28	6"/12±/1	8.5	129.5	9.3	111.3	101.8	78.6		F*	2305-7	
2305-3	CHANNEL "D" 130' N OF GN #28	6"/12±/1	8.5	129.5	9.4	114.0	104.2	80.5		F*	2305-8	
2305-4	N8150 E6950 EAST SLOPE COMMON FILL	6"/8"/1	8.5	129.5	4.3	126.7	121.5	93.9	P			
2305-5	N8140 E6845 "	6"/9"/1	8.5	129.5	5.2	126.4	120.1	92.7	P			
2305-6	CHANNEL "D" 131' N OF GN #28	6"/12±/1	8.5	129.5	8.5	124.1	114.3	88.3		F*		
2305-7	CHANNEL "D" 82' N OF GN #28	6"/12±/1	8.5	129.5	8.0	120.6	111.7	86.3		F*		
2305-8	CHANNEL "D" 35' N OF GN #28	6"/12±/1	8.5	129.5	7.9	114.1	105.7	81.7		F*		

*NOTE: NO FURTHER RETEST/TESTING OF DRAINAGE CHANNEL "D" REQUIRED

LAP MATCH TO FIGURE 2



DATE: 23-05-95
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION (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.	

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 5 month 1995 year

SPECIFICATION REQUIREMENTS

SOURCE: R. SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED)): ≤12"
(CIRCLE ONE)

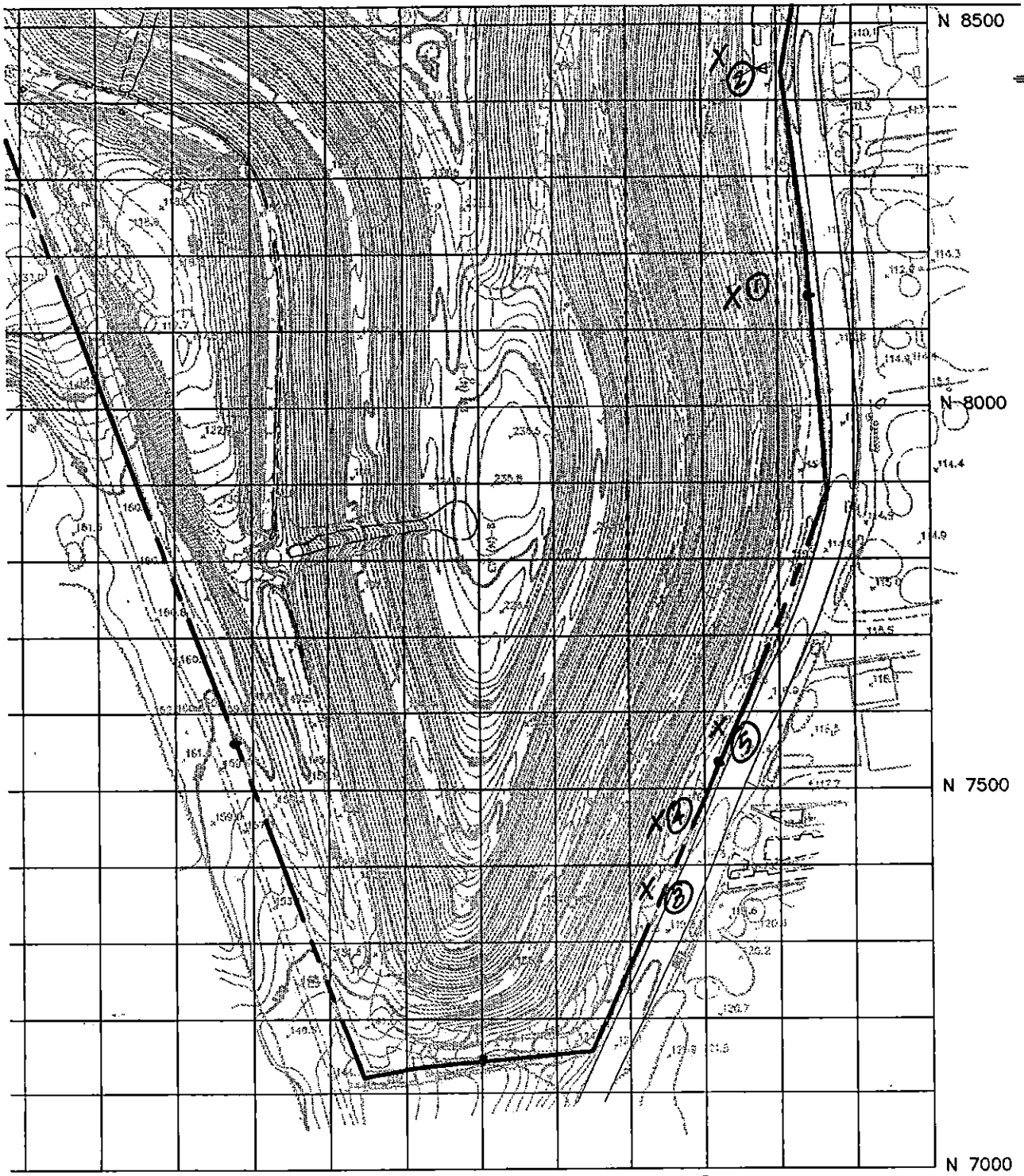
% COMPACTION: ≥90% MOISTURE RANGE: ±2% OF OMC ASTM D 698: A B C / (ASTM D 1557) A B C
(CIRCLE ONE)

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
2405-1	N8150 E7050 EAST SLOPE COMMON FILL	6"/10"/1	8.5	129.5	4.4	123.5	118.3	91.4	P			(92)
2405-2	N8450 E7040 "	6"/8"/1	8.5	129.5	4.7	118.0	112.7	87.0		F		(93)
2405-3	N7360 E6960 "	6"/8"/1	8.5	129.5	6.0	127.0	119.9	92.6	P			(94)
2405-4	N7470 E6970 "	6"/8"/1	8.5	129.5	5.3	122.7	116.5	90.0	P			(95)
2405-5	N7560 E7039 "	6"/10"/1	8.5	129.5	5.1	122.6	116.7	90.1	P			(96)
2405-6	CHANNEL "C" 80'S OF GY#13	6"/12±/1	8.5	129.5	7.2	116.0	108.2	83.5		F*		(97)

*NOTE: GEOSYNTEC WAS DIRECTED BY S. BRIX OF CASHIN TO DISCONTINUE TESTING OF THE DRAINAGE CHANNELS INVERT.

LAP MATCH TO FIGURE 2



DATE: 24-05-95
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION

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.	

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 05 month 1995 year

SPECIFICATION REQUIREMENTS

SOURCE: R. SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED)) <12"
(CIRCLE ONE)

% COMPACTION: ≥90% MOISTURE RANGE: ± 2% of OMC 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 COMMON FILL	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
2505-1	N8450 & E7050 EAST SLOPE	6"/9"/1	8.5	129.5	5.0	122.3	116.5	90.0	P			QD
2505-2	N 8560 & E7035 "	6"/8"/1	8.5	129.5	5.2	123.3	117.2	90.5	P			QD
2505-3	N 8450 & E6740 "	6"/10"/1	8.5	129.5	4.4	121.6	116.5	90.0	P			QD
2505-4	N 8550 & E6750 "	6"/10"/1	8.5	129.5	4.8	123.9	118.3	91.3	P			QD
2505-5	N 8650 & E6760 "	6"/10"/1	8.5	129.5	5.7	123.3	116.7	90.1	P			QD
2505-6	N 8750 & E6750 "	6"/10"/1	8.5	129.5	5.8	124.9	118.1	91.2	P			QD
2505-7	N 8850 & E6760 "	6"/8"/1	8.5	129.5	6.3	121.0	113.9	87.9		F	2505-8	QD
2505-8	N 8840 & E6750 "	6"/8"/1	8.5	129.5	5.0	122.3	116.5	90.0	P			QD
2505-9	N 8850 & E6945 "	6"/9"/1	8.5	129.5	6.0	124.8	117.7	90.9	P			QD
2505-10	N 7450 & E6840 SOUTH SLOPE	6"/10"/1	8.5	129.5	4.7	122.0	116.5	90.0	P			QD
2505-11	N 7740 & E6950 EAST SLOPE	6"/9"/1	8.5	129.5	5.0	122.6	116.7	90.1	P			QD
2505-12	N 7850 & E6945 "	6"/10"/1	8.5	129.5	4.8	122.1	116.6	90.0	P			QD
2505-13	N 7950 & E6960 "	6"/9"/1	8.5	129.5	4.2	127.2	122.1	94.2	P			QD
2505-14	N 8050 & E6950 "	6"/10"/1	8.5	129.5	5.0	122.3	116.5	90.0	P			QD

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: ____ day ____ month ____ year

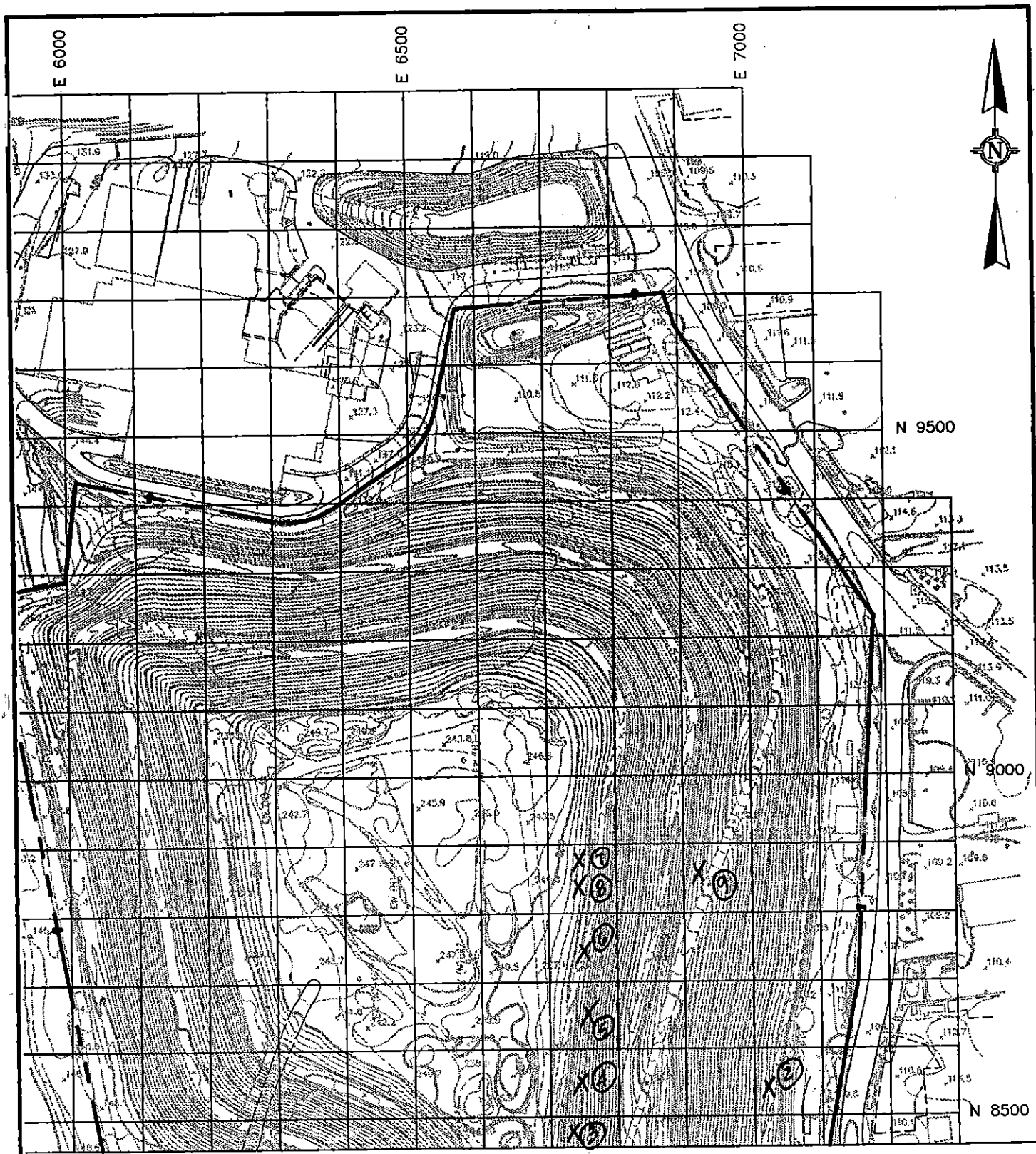
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE / (COMPACTED)) >12"
(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
	COMMON FILL											
2505-15	N7950 & E7050 EAST SLOPE	6"/10"/1	8.5	129.5	4.2	124.9	119.9	92.6	P			(Q)
2505-16	N7850 & E7040 "	6"/10"/1	8.5	129.5	4.6	126.6	121.1	93.5	P			(Q)
2505-17	N7750 & E7050 "	6"/9"/1	8.5	129.5	5.5	122.9	116.5	90.0	P			(Q)
2505-18	N7650 & E7040 "	6"/9"/1	8.5	129.5	5.8	124.9	118.1	91.2	P			



DATE: 25-05-95
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION

LAP MATCH TO FIGURE 1

0 100 200

1 inch = 200 ft.

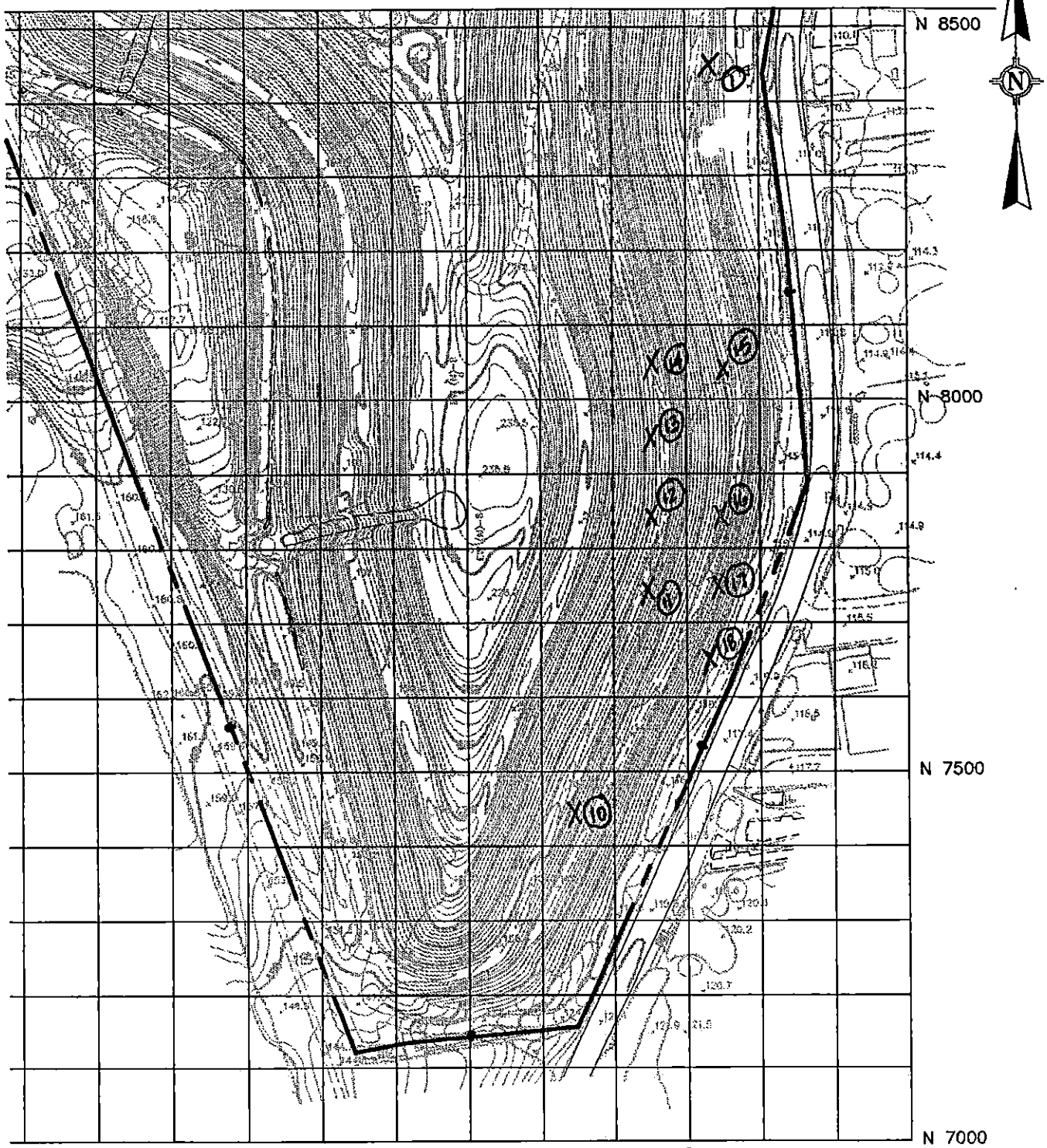
100 FOOT FIELD TESTING GRID

GeoSyntec Consultants

DWG: 3700F001 199501251447RT

FIGURE NO.	2
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	

LAP MATCH TO FIGURE 2



DATE: 25-05-95
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION

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.	

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 5 month 1995 year

SPECIFICATION REQUIREMENTS

SOURCE: R. SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED)): 9"

% 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
~~3005-1~~	~~CHANNEL H 10's ALT SELECT OF SECT 13E~~	~~6"/12"/2~~	~~8.5~~	~~129.5~~	~~10.3~~	~~120.0~~	~~108.8~~	~~84.0~~		F	~~3005-4~~	(P)
~~3005-2~~	~~CHANNEL H 40's ALT SELECT OF SECT 13E~~	~~6"/12"/2~~	~~8.5~~	~~129.5~~	~~11.8~~	~~122.6~~	~~109.7~~	~~84.7~~		F	~~3005-9~~	(P)
~~3005-3~~	~~CHANNEL H 100's ALT SELECT OF SECT 13E~~	~~6"/12"/2~~	~~8.5~~	~~129.5~~	~~11.8~~	~~118.8~~	~~106.3~~	~~82.1~~		F	~~3005-16~~	(P)
~~3005-4~~	~~CHANNEL H 10's ALT SELECT OF SECT 13E~~	~~6"/12"/2~~	~~8.5~~	~~129.5~~	~~11.0~~	~~120.3~~	~~108.4~~	~~83.7~~		F	~~3005-9~~	(P)
~~3005-6~~	~~CHANNEL H 42's ALT SELECT OF SECT 13E~~	~~6"/12"/2~~	~~8.5~~	~~129.5~~	~~12.6~~	~~129.8~~	~~114.6~~	~~88.5~~		F	~~3005-8~~	(P)
~~3005-6~~	~~CHANNEL H 102's ALT SELECT OF SECT 13E~~	~~6"/12"/2~~	~~8.5~~	~~129.5~~	~~10.8~~	~~126.1~~	~~114.4~~	~~88.4~~		F	~~3005-1~~	(P)
~~3005-7~~	~~CHANNEL H 100's ALT SELECT OF SECT 13E~~	~~6"/12"/2~~	~~8.5~~	~~129.5~~	~~11.7~~	~~125.8~~	~~112.6~~	~~87.0~~		F	~~3005-11~~	(P)
~~3005-8~~	~~CHANNEL H 40's ALT SELECT OF SECT 13E~~	~~6"/12"/2~~	~~8.5~~	~~129.5~~	11.3	124.9	112.3	86.7		F	3005-16	(P)
~~3005-9~~	~~CHANNEL H 15's ALT SELECT OF SECT 13E~~	~~6"/12"/2~~	~~8.5~~	~~129.5~~	~~12.0~~	~~124.5~~	~~111.1~~	~~89.8~~		F	~~3005-15~~	(P)
3005-10	N8150 / E7140 COMMON EAST SLOPE	6"/10"/1	8.5	129.5	6.2	126.4	120.0	92.7	P			(P)
3005-11	N8240 / E7130 "	6"/9"/1	8.5	129.5	5.6	129.5	122.5	94.6	P			(P)
3005-12	N7950 / E7050 "	6"/10"/1	8.5	129.5	5.0	127.0	121.0	93.4	P			(P)
3005-13	N7650 / E6950 "	6"/10"/1	8.5	129.5	5.1	122.4	116.5	90.0	P			(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: 30 day 05 month 1995 year

SPECIFICATION REQUIREMENTS

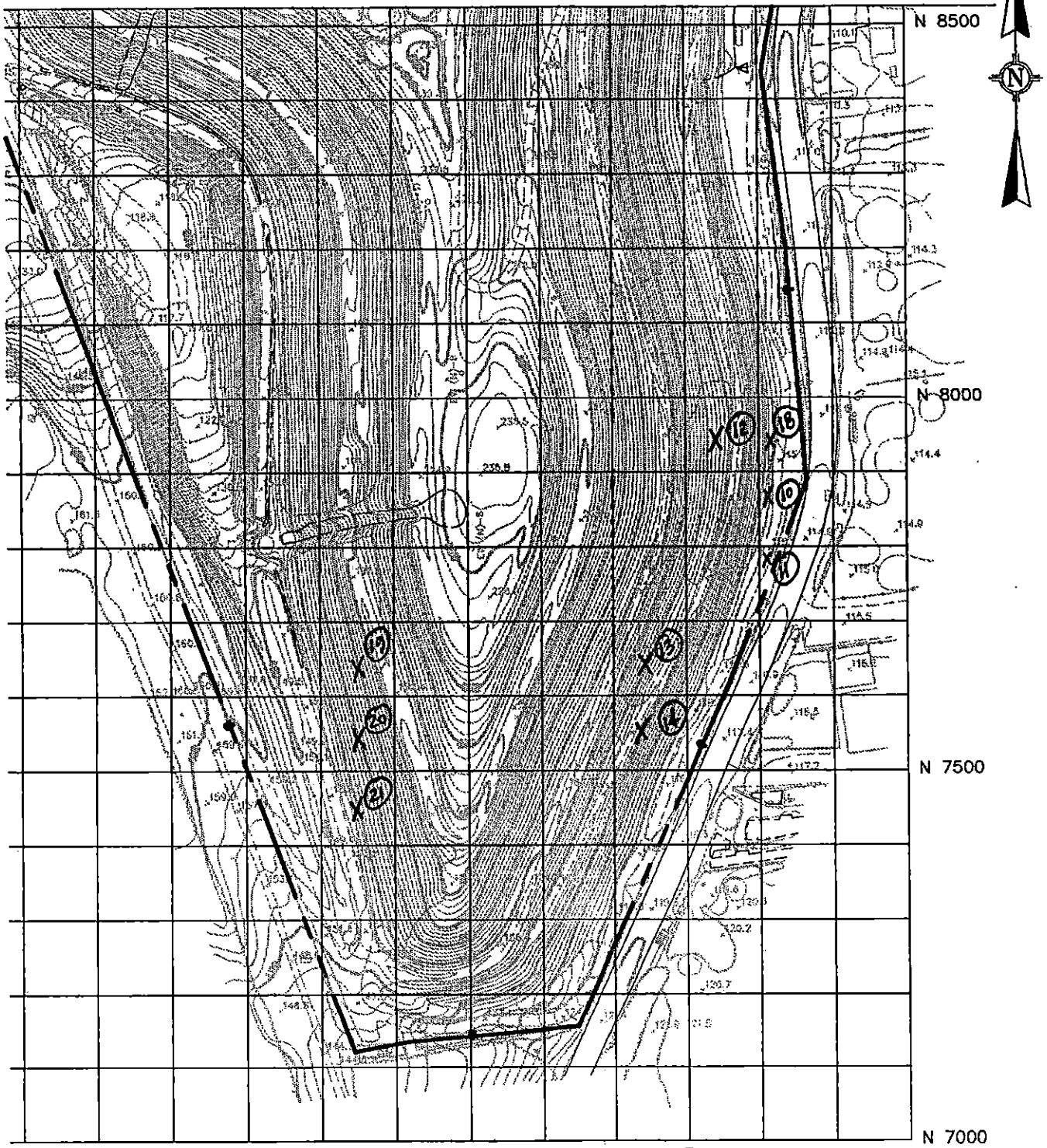
SOURCE: R-SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED): 9"
(CIRCLE ONE)

% 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. (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
3005-14	N 7550 & E 6940 COMMON EAST SLOPE	6"/8"/1	8.5	129.5	4.8	122.4	116.8	90.2	P			
~~3005-15~~	~~CHANNEL H 5's OF ALT SELECT SECT 13E~~	~~6"/12"/2~~	~~8.5~~	~~129.5~~	~~12.0~~	~~123.2~~	~~110.0~~	~~84.9~~		~~F~~	~~3005-22~~	
~~3005-16~~	~~CHANNEL H 45's OF ALT SELECT SECT 13E~~	~~6"/12"/2~~	~~8.5~~	~~129.5~~	~~11.5~~	~~123.6~~	~~110.8~~	~~85.6~~		~~F~~	~~3005-23~~	
~~3005-17~~	~~CHANNEL H 100's OF ALT SELECT SECT 13E~~	~~6"/12"/2~~	~~8.5~~	~~129.5~~	~~13.7~~	~~126.8~~	~~111.5~~	~~86.1~~		~~F~~	~~3005-24~~	
3005-18	N 7950 & E 7120 COMMON EAST SLOPE	6"/10"/1	8.5	129.5	5.3	120.9	119.5	92.3	P			
3005-19	N 7460 & E 6520 COMMON WEST SLOPE	6"/10"/1	8.5	129.5	5.0	122.3	116.5	90.0	P			
3005-20	N 7545 & E 6525 COMMON WEST SLOPE	6"/9"/1	8.5	129.5	6.0	124.8	117.7	90.9	P			
3005-21	N 7650 & E 6520 COMMON WEST SLOPE	6"/9"/1	8.5	129.5	4.4	121.6	116.5	90.0	P			
* ~~3005-22~~	~~CHANNEL H 10's OF ALT SELECT SECT 13E~~	~~6"/12"/2~~	~~8.5~~	~~129.5~~	~~9.2~~	~~129.1~~	~~118.2~~	~~91.3~~	~~P~~			
* ~~3005-23~~	~~CHANNEL H 45's OF ALT SELECT SECT 13E~~	~~6"/12"/2~~	~~8.5~~	~~129.5~~	~~8.8~~	~~129.8~~	~~119.5~~	~~90.8~~	~~P~~			
* ~~3005-24~~	~~CHANNEL H 100's OF ALT SELECT SECT 13E~~	~~6"/12"/2~~	~~8.5~~	~~129.5~~	~~8.1~~	~~126.8~~	~~119.3~~	~~90.5~~	~~P~~			
*	THESE 3 TESTS PASSED AFTER JDP INCREASED THE TRENCH WIDTH FROM 12" TO 18" TO ACCOMMODATE THE LARGER VIBRATORY WALK BEHIND TAMPER.											

LAP MATCH TO FIGURE 2



DATE 30-05-95
COMMON FILL
NUCLEAR DENSITY
TESTS COMPACTION

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants

DWG: 3700F001 199501251447RT

FIGURE NO.	1
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 May month 1995 year

SPECIFICATION REQUIREMENTS

SOURCE: Ray Schleider MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED)): 9"

% 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
310595-1	D5 Test Pad 2nd lift	6"/11"/L:2	8.5	129.5	6.6	131.5	123.3	95.2	P			GD
-2	C5	6"/12"/L:2			7.1	127.2	118.7	91.6	P			
-3	B5	6"/8.5"/L:2			7.0	126.6	118.3	91.3	P			
-4	A5	6"/9.25"/L:2			7.7	123.5	114.7	88.6		F	310595-5	
-5	A5	6"/9.25"/L:2			7.0	125.2	117.0	90.4	P			
-6	A4	6"/9"/L:2			9.2	131.3	120.3	92.9	P			
-7	B4	6"/8"/L:2			9.0	130.8	120.0	92.6	P			
-8	C4	6"/8.5"/L:2			9.6	124.5	113.5	87.7		F	310595-9	
-9	C4	6"/9"/L:2			8.3	132.6	122.4	94.5	P			
-10	D4	6"/10"/L:2			9.4	129.2	118.1	91.2	P			
-11	D3	6"/10"/L:2			9.1	126.9	116.4	90.0	P			
-12	C3	6"/10"/L:2			10.1	130.3	118.4	91.4	P			
-13	B3	6"/9.5"/L:2			10.3	133.4	120.9	93.3	P			
-14	A3	6"/9.25"/L:2			9.4	124.5	113.8	87.9		F	310595-15	

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 May month 1995 year

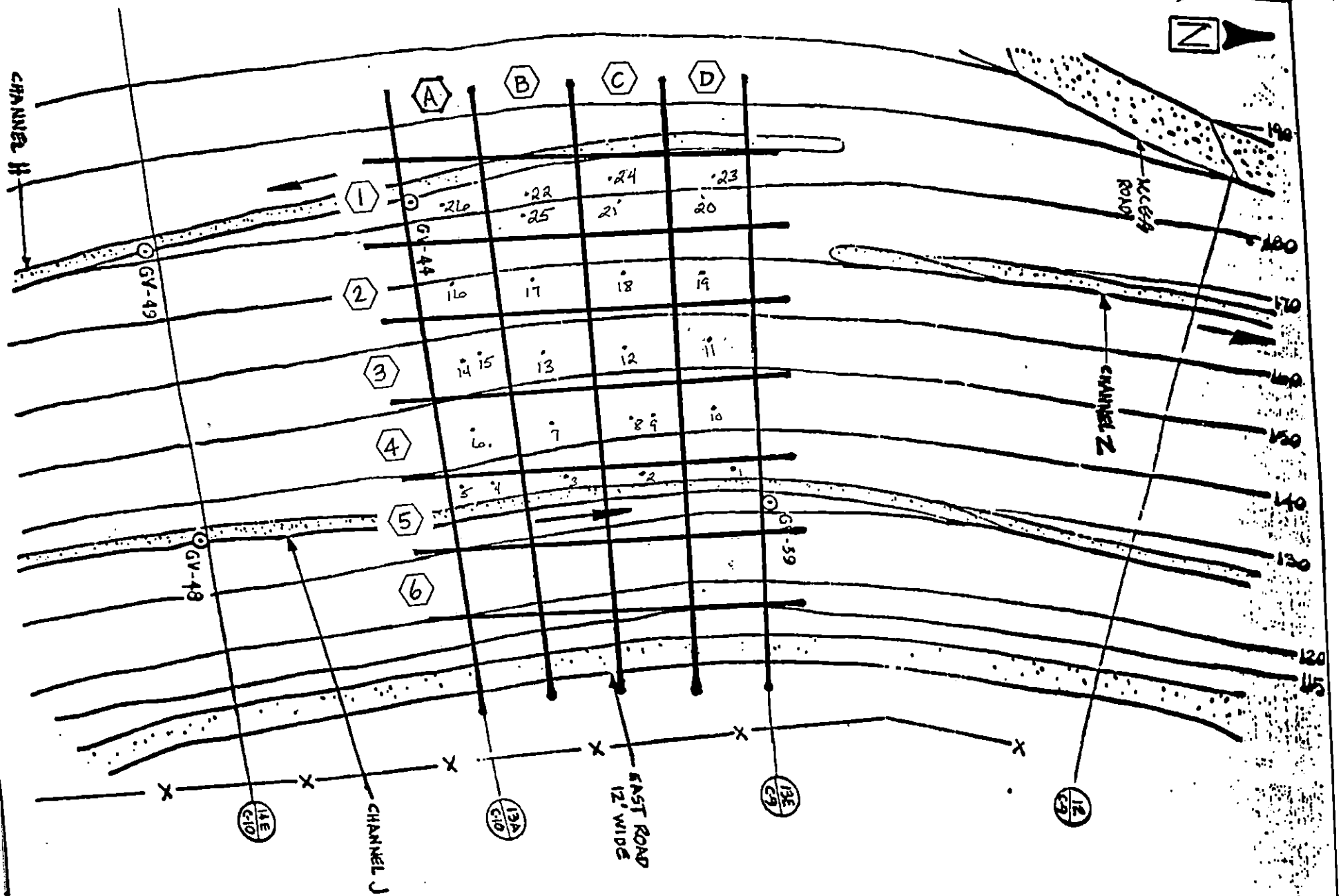
SPECIFICATION REQUIREMENTS

SOURCE: Ray Schleider MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED): 9"

% 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
310595-15	A3 Test Pad 2nd Lift	6"/9"/L:2	8.5	129.5	8.5	128.3	118.3	91.3	P			GD
-16	A2	6"/10"/L:2			8.9	128.5	118.0	91.1	P			
-17	B2	6"/11"/L:2			9.6	128.3	117.0	90.4	P			
-18	C2	6"/11"/L:2			7.6	126.2	117.3	90.6	P			
-19	D2	6"/8.5"/L:2			8.9	126.8	116.4	90.0	P			
-20	D1	6"/9"/L:2			7.7	120.0	111.4	86.4		F	310595-23	
-21	C1	6"/8.5"/L:2			7.9	121.3	112.4	86.8		F	310595-24	
-22	B1	6"/9"/L:2			8.5	123.6	113.9	88.0		F	310595-25	
-23	D1	6"/9"/L:2			7.8	134.6	124.8	96.4	P			
-24	C1	6"/8.5"/L:2			7.3	132.0	123.0	95.0	P			
-25	B1	6"/9"/L:2			6.9	124.4	116.3	90.0	P			
-26	A1	6"/10"/L:2			5.7	124.7	118.0	91.1	P			



TEST PAD LOCATION MAP (30' GRID)

SCALE 1"=50'

GeoSyntec Consultants

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 May month 1995 year

SPECIFICATION REQUIREMENTS

SOURCE: Ray Schleider MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED)): 9"

% 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		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		
310595-1	Channel H	6"	8.5	129.5	10.0	128.0	116.4	90.0	P			GD
-2	Channel H	6"	↓	↓	8.9	127.9	117.5	90.7	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: 01 day 06 month 1995 year

SPECIFICATION REQUIREMENTS

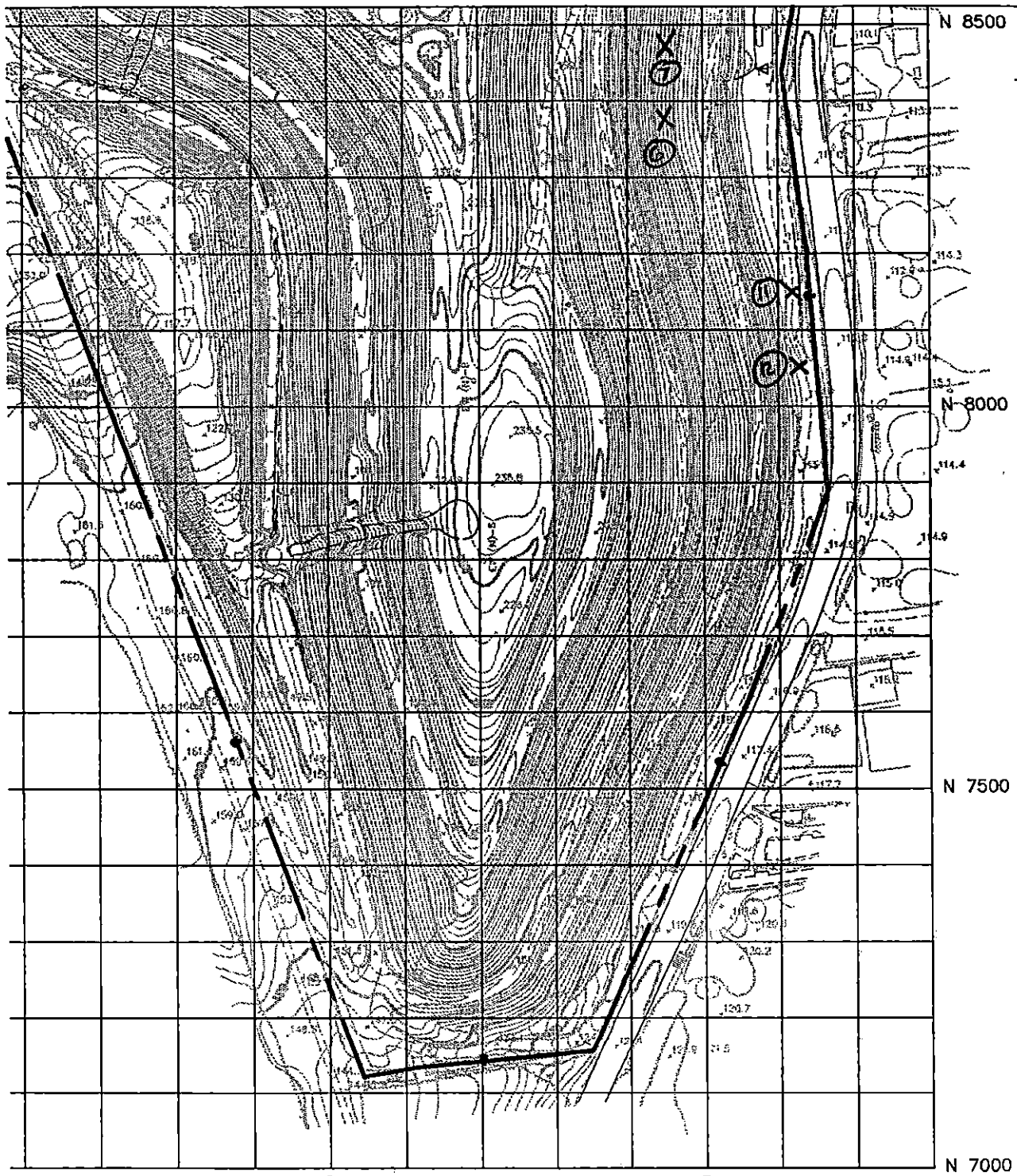
SOURCE: R-SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE / (COMPACTED)) ≥12"
(CIRCLE ONE)

% 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		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		
0106-1	N9150 & E5960 COMMON WEST SLOPE	6"/9"/1	8.5	129.5	6.9	136.6	127.7	98.6	P			
0106-2	N9050 & E5960 "	6"/9"/1	8.5	129.5	6.6	124.3	116.6	90.0	P			
0106-3	N8950 & E5970 "	6"/8"/1	8.5	129.5	6.6	135.2	126.8	97.9	P			
0106-4	N8840 & E5975 "	6"/10"/1	8.5	129.5	4.9	132.3	126.1	97.4	P			
0106-5	N8745 & E5980 "	6"/9"/1	8.5	129.5	5.4	125.4	119.0	91.9	P			
0106-6	N8375 & E6950 EAST SLOPE	6"/9"/1	8.5	129.5	7.1	134.4	125.4	96.9	P			
0106-7	N8450 & E6955 "	6"/10"/1	8.5	129.5	6.4	133.8	125.7	97.1	P			
0106-8	N8550 & E6950 "	6"/10"/1	8.5	129.5	5.7	123.5	116.8	90.2	P			
0106-9	N8645 & E6950 "	6"/8"/1	8.5	129.5	5.7	127.5	120.4	93.0	P			
0106-10	N8750 & E6945 "	6"/9"/1	8.5	129.5	6.0	125.6	118.5	91.5	P			
0106-11	N8140 & E7130 "	6"/10"/1	8.5	129.5	4.4	125.1	119.8	92.5	P			
0106-12	N8050 & E7135 "	6"/9"/1	8.5	129.5	4.0	128.0	123.2	95.1	P			

LAP MATCH TO FIGURE 2



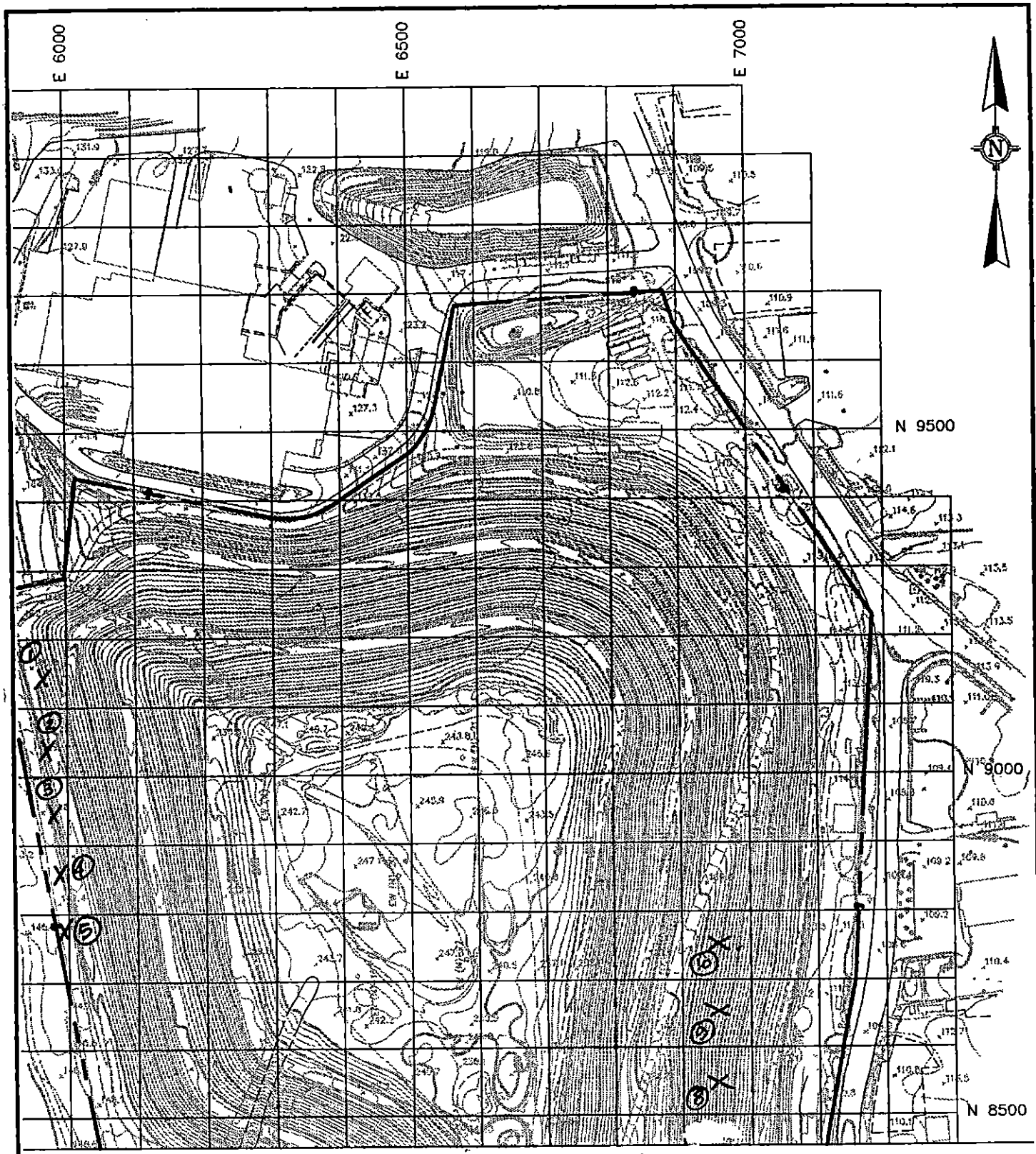
DATE: 01-06-95
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants

DWG: 3700F001 199501251447RT

FIGURE NO.	1
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	



DATE: 01-06-95
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION

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: 02 day 06 month 1995 year

SPECIFICATION REQUIREMENTS

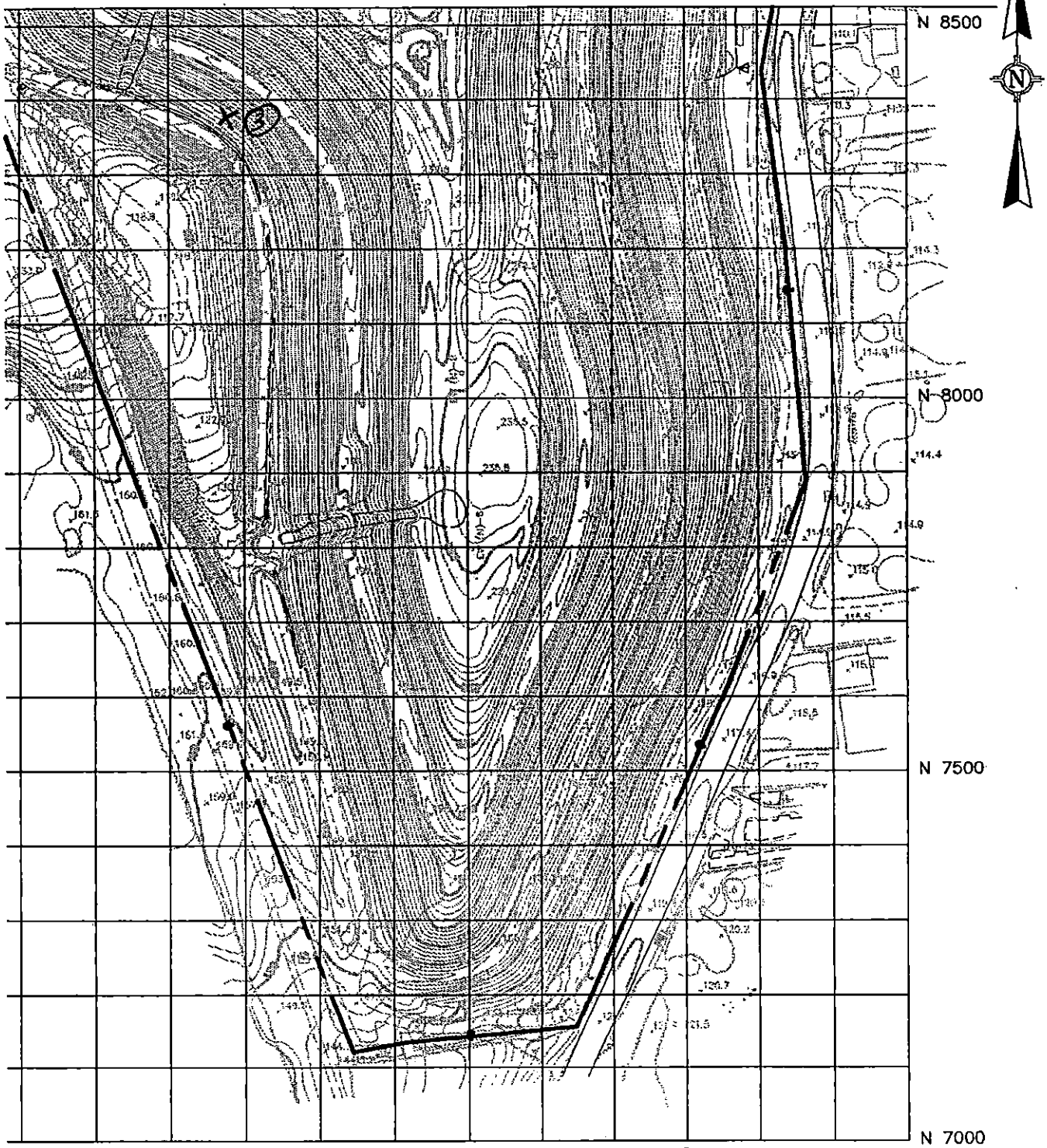
SOURCE: R. SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED)): ≤12"
(CIRCLE ONE)

% 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		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		
0206-1	N8550 & E6070 COMMON WEST SLOPE	6"/9"/1	8.5	129.5	6.0	127.8	120.5	93.1	P			(D)
0206-2	N8440 & E6075 "	6"/8"/1	8.5	129.5	5.6	130.3	123.5	95.3	P			(D)
0206-3	N8360 & E6350 "	6"/9"/1	8.5	129.5	5.3	122.7	116.5	90.0	P			(D)

LAP MATCH TO FIGURE 2



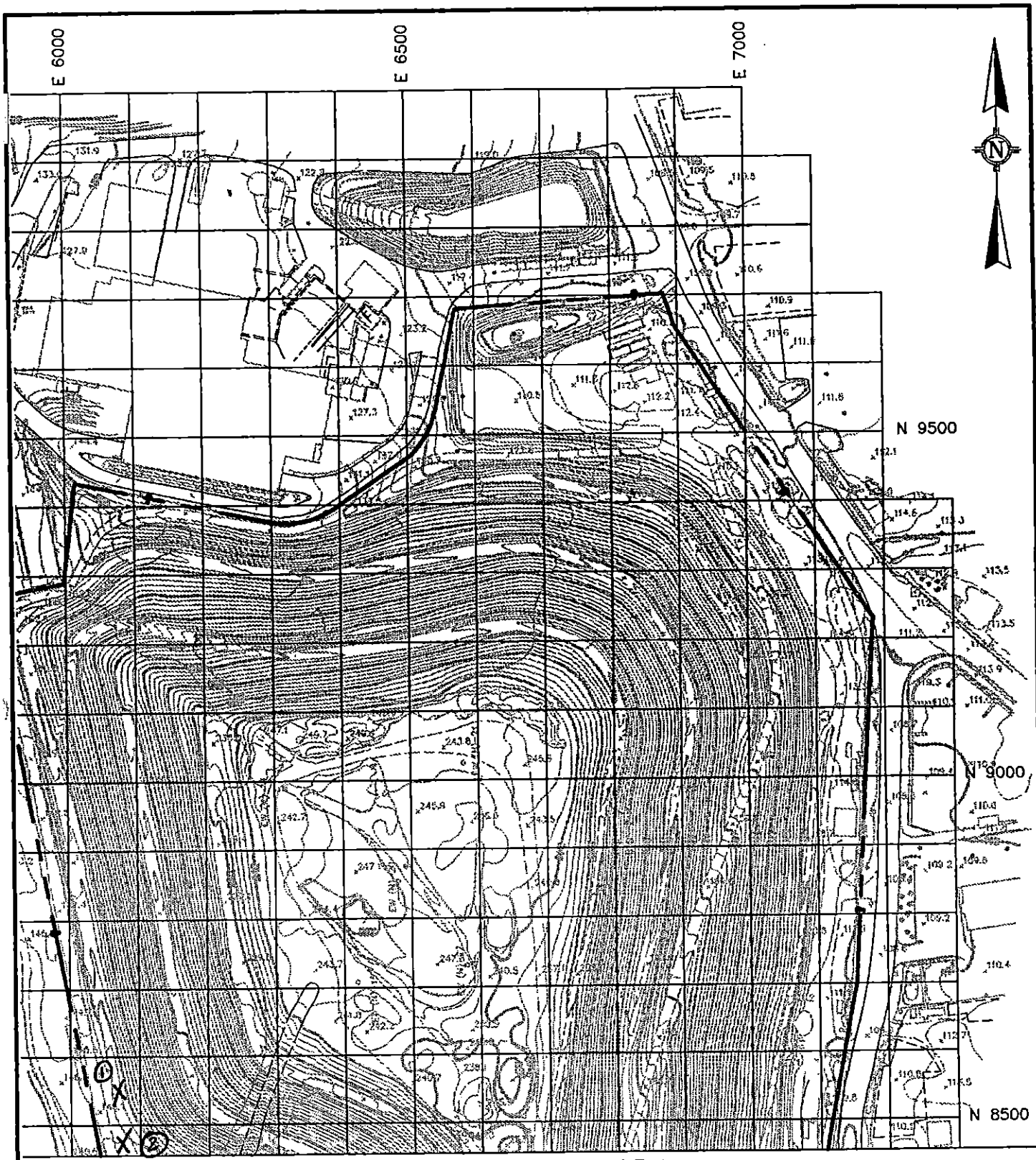
DATE: 02-06-95
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION (2)

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants

DWG: 3700F001 199501251447RT

FIGURE NO.	1
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	



LAP MATCH TO FIGURE 1

0 100 200

1 inch = 200 ft.

DATE: 02-06-95
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION

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: 05 day 06 month 1995 year

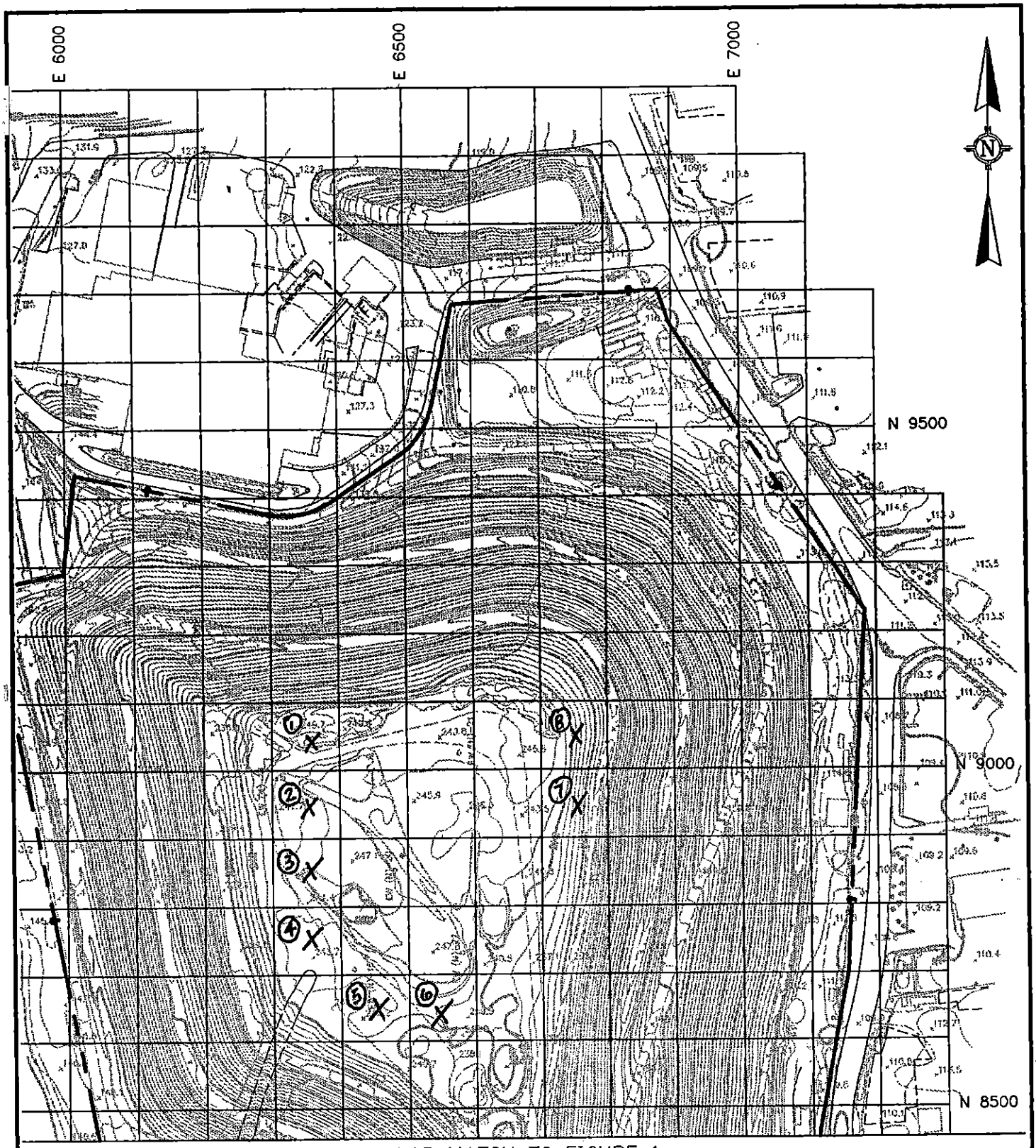
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED): <12"
(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		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		
0506-1	N 9050 & E 6340 COMMON TOP WEST SL	6"/10"/1	8.5	129.5	6.6	124.2	116.5	90.0	P			
0506-2	N 8950 & E 6350 "	6"/9"/1	8.5	129.5	6.1	124.8	117.6	90.8	P			
0506-3	N 8840 & E 6360 "	6"/9"/1	8.5	129.5	6.6	124.3	116.6	90.1	P			
0506-4	N 8755 & E 6370 "	6"/9"/1	8.5	129.5	6.2	124.1	116.8	90.2	P			
0506-5	N 8650 & E 6430 "	6"/9"/1	8.5	129.5	5.4	124.7	118.3	91.4	P			
0506-6	N 8630 & E 6560 "	6"/8"/1	8.5	129.5	5.2	123.4	117.3	90.6	P			
0506-7	N 8950 & E 6750 EAST SL COMMON	6"/9"/1	8.5	129.5	5.6	124.2	117.5	90.8	P			
0506-8	N 9040 & E 6710 "	6"/10"/1	8.5	129.5	6.9	124.5	116.5	90.0	P			



DATE: 05-06-95
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION (17)

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: 06 day 06 month 1995 year

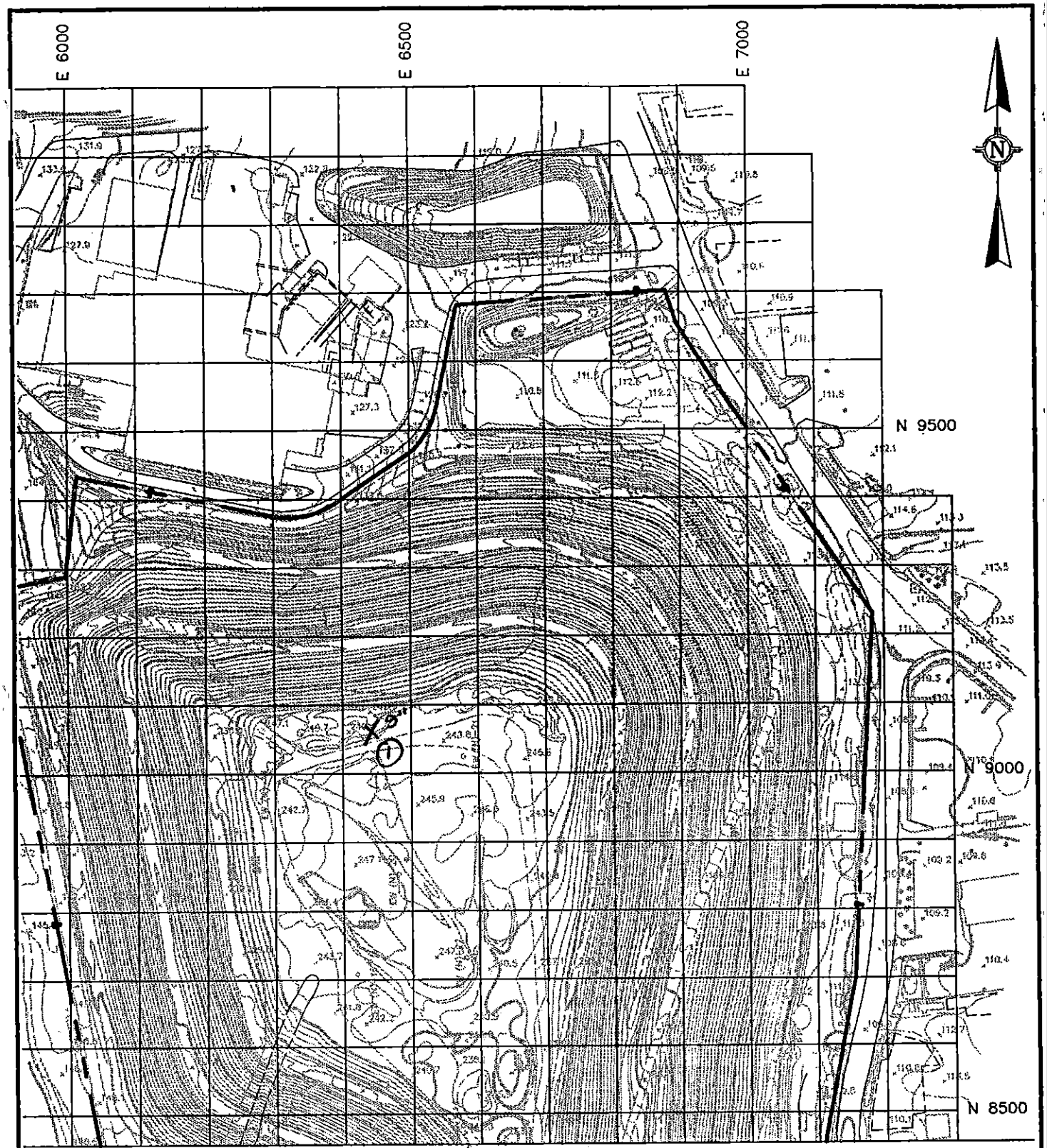
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED): 12"
(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		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		
0606-1	N 9050 E 6450 TOP NORTH COMMON	6"/9"/1	8.5	129.5	6.5	136.4	128.1	98.9	P			(98)



LAP MATCH TO FIGURE 1

0 100 200

1 inch = 200 ft.

DATE: 06-06-95
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION

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: 09 day 06 month 1995 year

SPECIFICATION REQUIREMENTS

SOURCE: R. SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON (CIRCLE ONE) LIFT THICKNESS (LOOSE/COMPACTED): ≤12"

% 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 / LIFT THICK / 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
	COMMON FILL											
0906-1	NW-1 TO NW-2 (100' NORTH OF NW-1)	6"/12"/3	8.5	129.5	5.4	114.2	108.3	83.6		F		(1)
0906-2	NW-3 TO NW-4 (110' NORTH OF NW-3)	6"/12"/3	8.5	129.5	5.5	124.0	117.5	90.7	P			(2)
0906-3	CW1-EXT-1 TO CW1-EXT-2 (40'N OF CW-1-EXT)	6"/12"/3	8.5	129.5	5.2	126.3	120.1	92.7	P			(3)
0906-4	CW1-EXT-3 TO CW1-EXT-4 (100'N OF CW-1 EXT) 3	6"/12"/3	8.5	129.5	5.9	123.7	116.7	90.1	P			(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: 12 day 7 month 1995 year

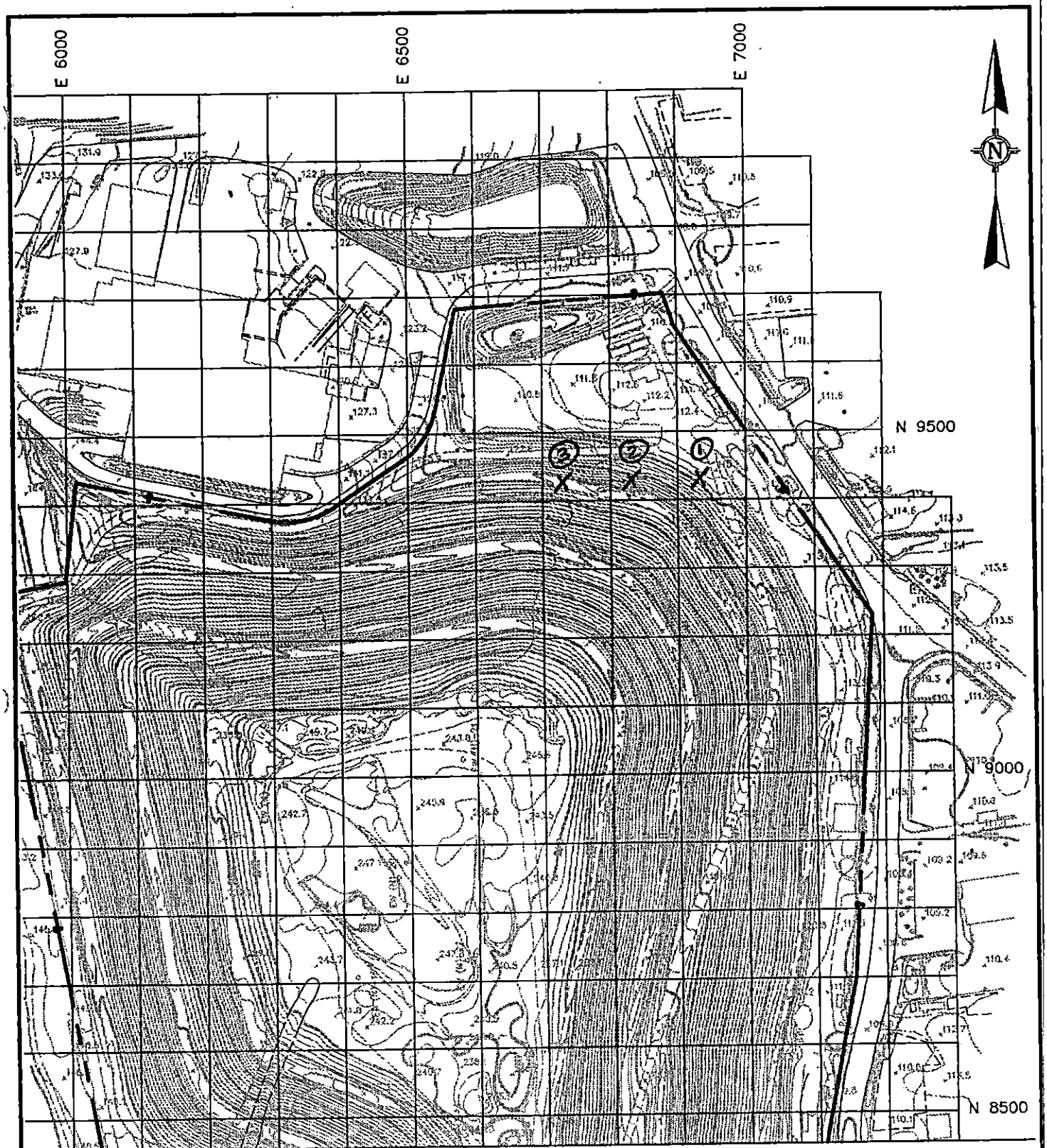
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON 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	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
1207-1	N9450 E6950 NORTH SLOPE COMMON	6"/10"/1	7.7	128.5	5.6	122.9	116.4	90.6	P			(D)
1207-2	N9445 E6950 "	6"/9"/1	7.7	128.5	9.1	133.9	122.7	95.5	P			(D)
1207-3	N9440 E6950 "	6"/10"/1	7.7	128.5	10.2	135.3	122.8	95.6	P			(D)
1207-4	CHANNEL "A" (SEE MAP)	6"/18"/1	7.7	128.5	8.1	131.5	121.6	94.7	P			(D)
1207-5	CHANNEL "B" "	6"/18"/1	7.7	128.5	6.6	132.9	124.6	97.0	P			(D)



DATE : 12-7-95
COMMON FILL
NUCLEAR DENSITY
TESTS LOCATION (9)

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 21 day 07 month 95 year

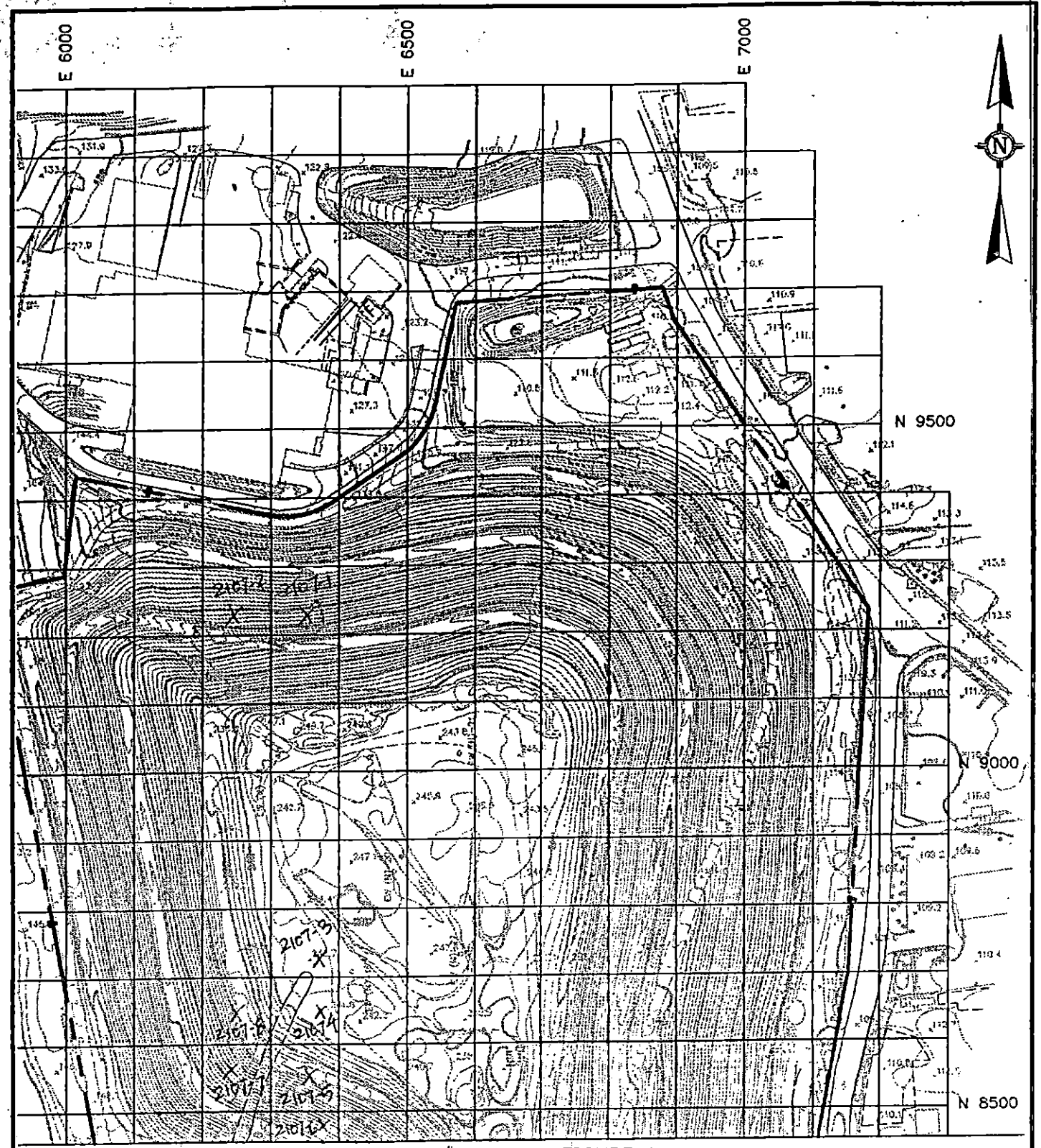
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED): 8"

% 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
~~2107-1~~	~~N9250 E6340~~ N SLOPE SELECT	~~6"/9"/1~~	~~7.8~~	~~130.4~~	~~8.2~~	~~129.4~~	~~119.2~~	~~91.4~~	~~P~~			~~(D)~~
~~2107-2~~	~~N9245 E6250~~ "	~~6"/9"/1~~	~~7.8~~	~~130.4~~	~~6.5~~	~~127.4~~	~~119.6~~	~~91.7~~	~~P~~			~~(D)~~
2107-3	N ~~8250~~ 8150 E 6360	6"/10"/1	8.5	128.5	8.1	130.1	120.4	93.7	P			(D)
2107-4	N 8650 E 6350	6"/11"/1	8.5	128.5	8.4	131.0	120.9	94.1	P			(D)
2107-5	N 8540 E 6350	6"/11"/1	8.5	128.5	6.2	127.2	119.7	93.1	P			(D)
2107-6	N 8460 E 6345	6"/10"/1	8.5	128.5	7.9	127.7	118.3	92.1	P			(D)
2107-7	N 8550 E 6250	6"/9"/1	8.5	128.5	7.9	126.4	117.2	91.2	P			(D)
2107-8	N 8650 E 6260	6"/10"/1	8.5	128.5	8.0	125.5	116.2	91.4	P			(D)



DATE: 21-7-95
TROXLER DENSITY TEST'S LOCATION
• SELECT FILL 1-21
• COMMON FILL (RETEST) (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.	

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 07 month 95 year

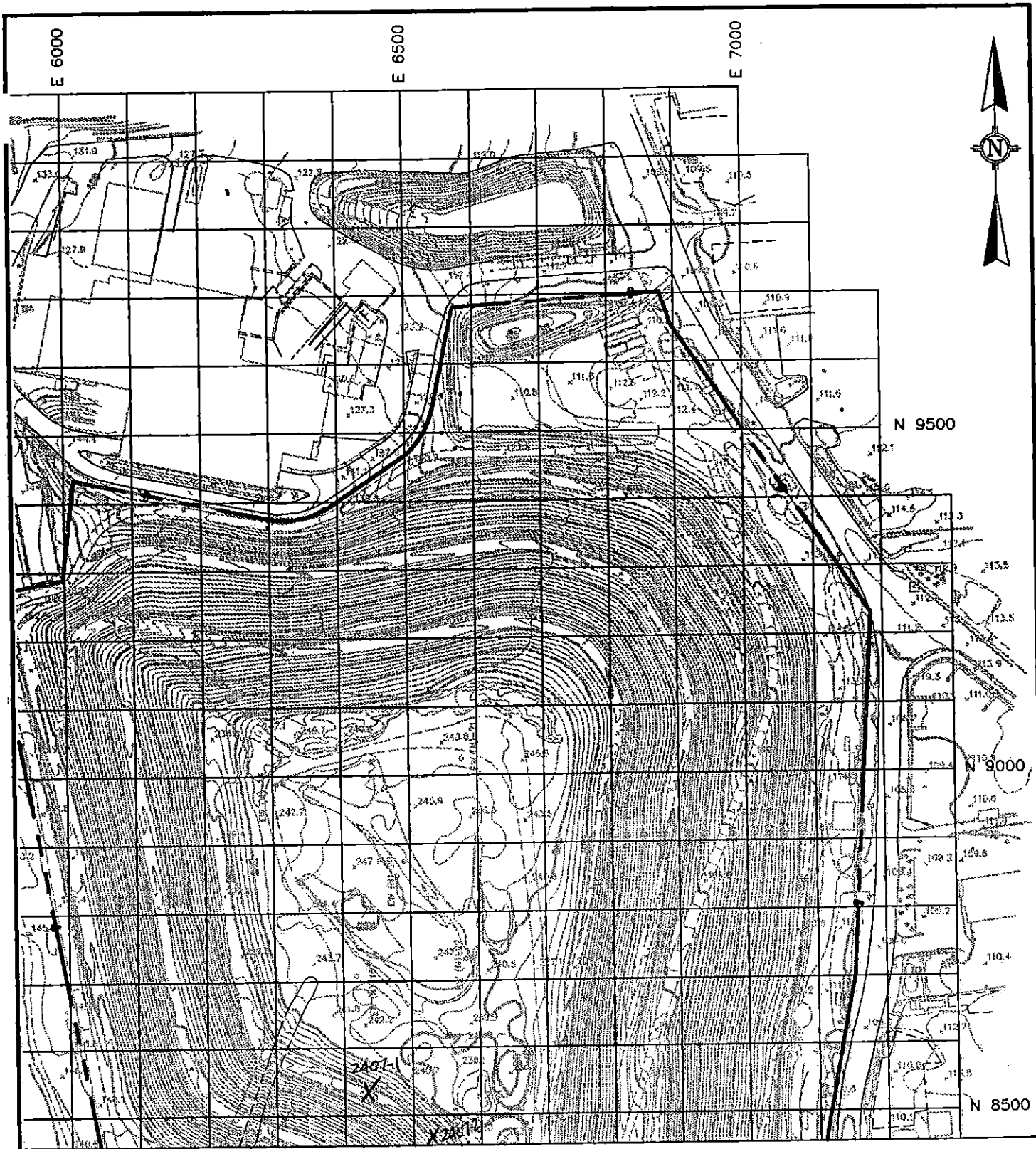
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHNEIDER (COMMON) MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED): <12"
(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
2407-1	RETEST OF COMMON FILL N8550 E6450 WEST SLOPE	6"/9"/1	8.5	128.5	9.1	128.9	118.2	92.0	P			
2407-2	N8450 E6550 "	6"/8"/1	8.5	128.5	8.1	125.8	116.3	90.5	P			
2407-3	N8340 E6540 "	6"/9"/1	8.5	128.5	6.3	116.3	109.4	85.2		F	2407-4	
2407-4	N8350 E6560 "	6"/8"/1	8.5	128.5	7.1	123.8	115.6	90.0	P			
2407-5	N8250 E6570 "	6"/8"/1	8.5	128.5	5.0	123.4	117.5	91.5	P			
2407-6	N8150 E6560 "	6"/8"/1	8.5	128.5	9.4	127.4	116.5	90.7	P			
2407-7	N8040 E6565 "	6"/8"/1	8.5	128.5	6.1	123.7	116.6	90.7	P			
2407-8	N7950 E6560 "	6"/10"/1	8.5	128.5	6.8	123.6	115.7	90.0	P			
2407-9	N7935 E6475 "	6"/10"/1	8.5	128.5	5.2	115.8	110.1	85.7		F	2407-10	
2407-10	N7950 E6450 "	6"/10"/1	8.5	128.5	5.8	122.3	115.6	90.0	P			
2407-11	N8050 E6470 "	6"/10"/1	8.5	128.5	6.0	122.6	115.7	90.1	P			
2407-12	N8150 E6460 "	6"/8"/1	8.5	128.5	7.3	125.5	117.0	91.0	P			
2407-13	N8240 E6460 "	6"/9"/1	8.5	128.5	5.3	121.7	115.6	90.0	P			
2407-14	N8350 E6450 "	6"/9"/1	8.5	128.5	6.3	123.2	115.9	90.2	P			
2407-15	N8470 E6425 "	6"/9"/1	8.5	128.5	6.2	128.6	121.2	94.3	P			



LAP MATCH TO FIGURE 1

DATE: 24-07-95
TROXLER DENSITY TESTS LOCATION
• COMMON FILL RETESTS (97)

0 100 200
1 inch = 200 ft.

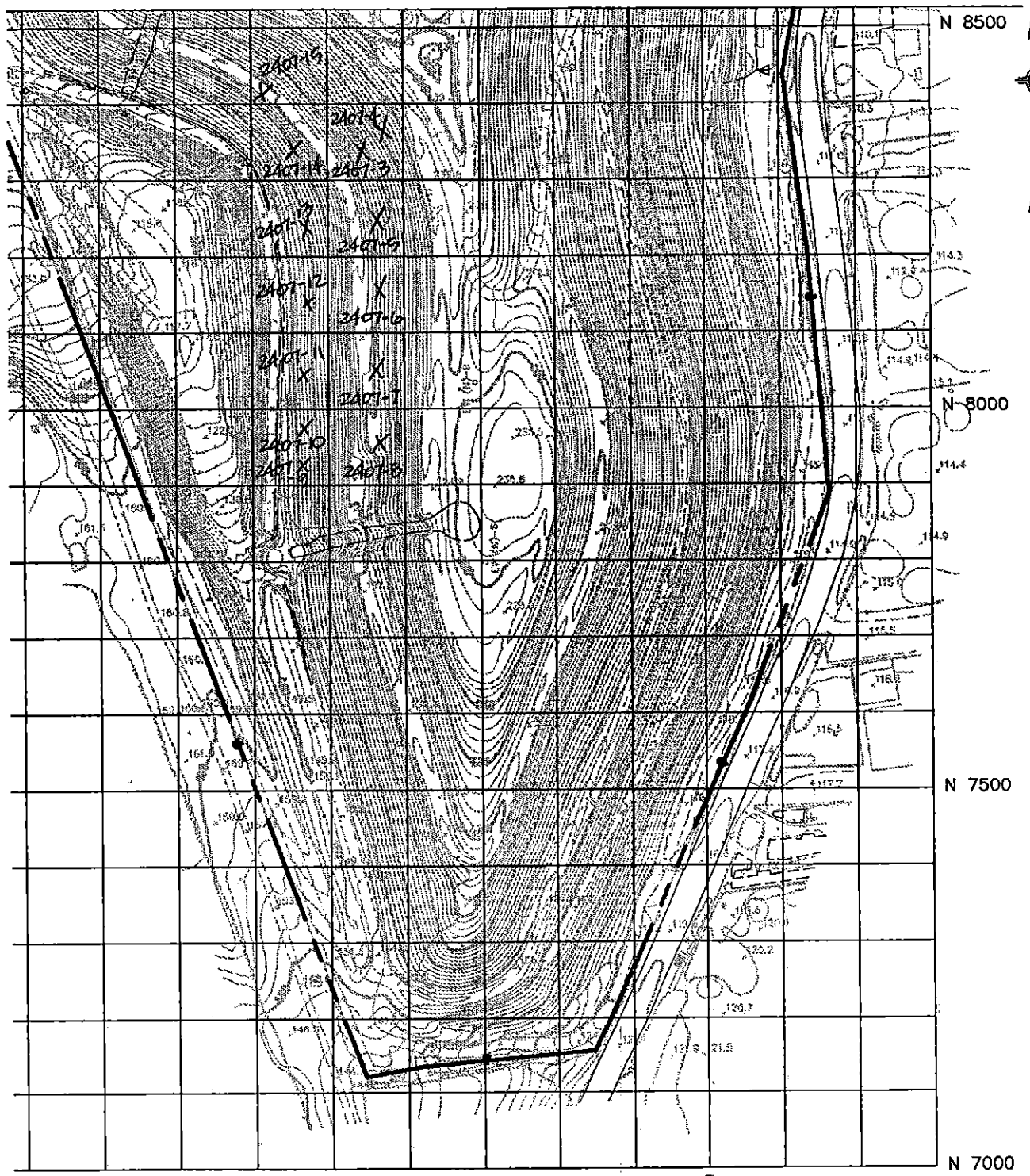
100 FOOT FIELD TESTING GRID

GeoSyntec Consultants

DWG: 3700F001 199501251447RT

FIGURE NO.	2
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	

LAP MATCH TO FIGURE 2



DATE: 24-07-95
TROXLER DENSITY TESTS LOCATION
• COMMON FILL RETESTS (9)

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.	

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

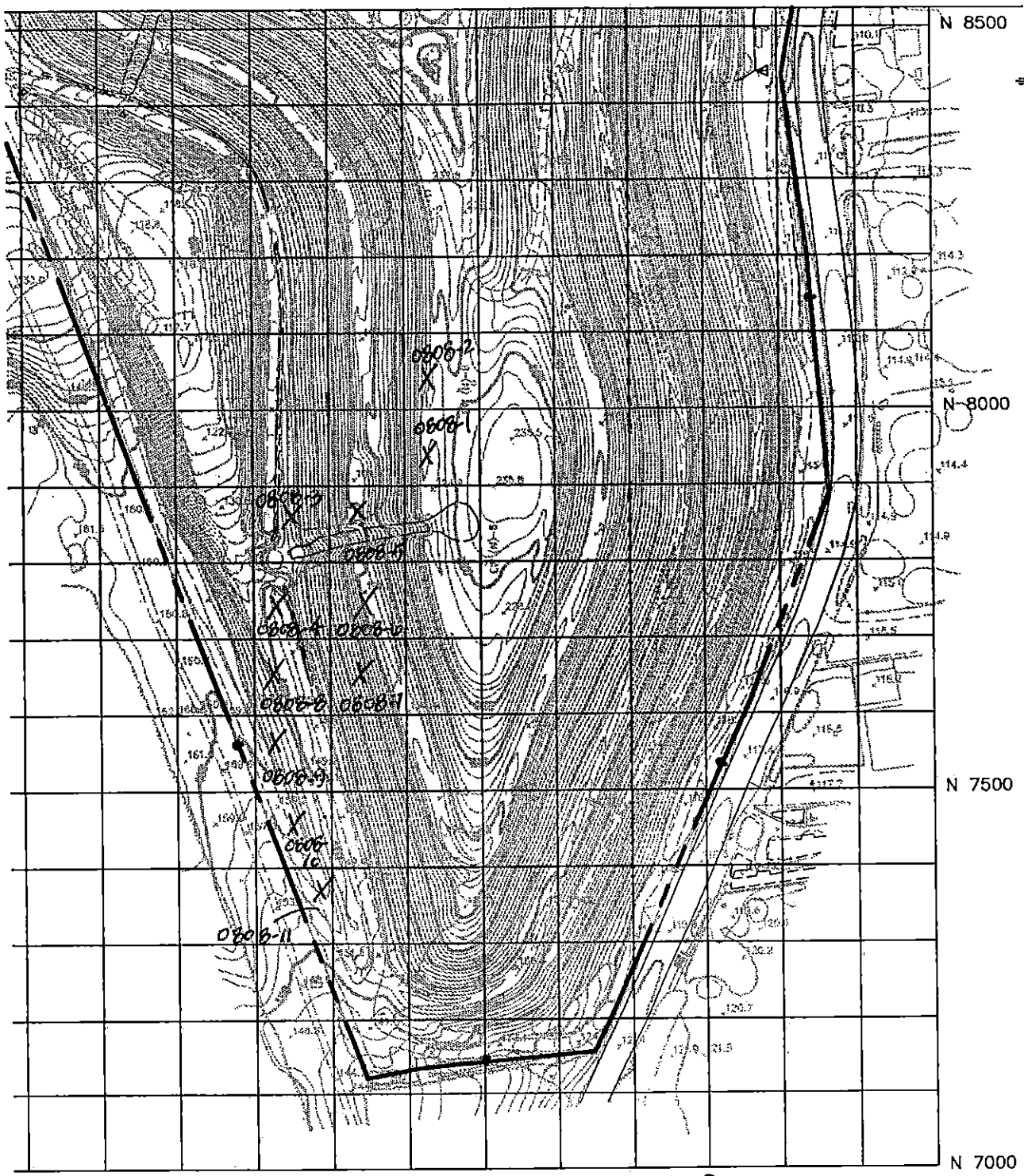
SOURCE: R. SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE / (COMPACTED)) 12"
(CIRCLE ONE)

% 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
0808-1	N7950 E6650 WEST SLOPE COMMON	6" / 9" / 1	8.5	128.5	6.5	123.1	115.6	90.0	P			(2)
0808-2	N8050 E6650 WEST SIDE COMMON	6" / 9" / 1	8.5	128.5	6.9	123.7	115.8	90.1	P			(3)
0808-3	N7850 E6450 "	6" / 10" / 1	8.5	128.5	4.1	120.3	115.6	90.0	P			(4)
0808-4	N7750 E6450 "	6" / 8" / 1	8.5	128.5	6.6	123.8	116.1	90.4	P			(5)
0808-5	N7850 E6550 "	6" / 9" / 1	8.5	128.5	4.7	124.4	118.8	92.4	P			(6)
0808-6	N7750 E6540 "	6" / 9" / 1	8.5	128.5	5.1	121.8	115.9	90.2	P			(7)
0808-7	N7650 E6550 "	6" / 10" / 1	8.5	128.5	4.1	122.9	118.0	91.8	P			(8)
0808-8	N7640 E6450 "	6" / 9" / 1	8.5	128.5	5.9	123.4	116.5	90.7	P			(9)
0808-9	N7550 E6445 "	6" / 10" / 1	8.5	128.5	5.4	122.6	116.3	90.5	P			(10)
0808-10	N7450 E6450 "	6" / 9" / 1	8.5	128.5	4.8	122.4	116.7	90.8	P			(11)
0808-11	N7350 E6475 "	6" / 9" / 1	8.5	128.5	4.0	126.8	121.9	94.9	P			(12)
~~0808-12~~	~~N8660 E6040~~ SELECT WOODSLOPE	~~6" / 9" / 1~~	~~6.6~~	~~128.9~~	~~6.1~~	~~130.1~~	~~113.3~~	~~87.8~~		F	0808-13	~~(13)~~
0808-13	N8640 E6040 "	6" / 10" / 1	6.6	128.9	7.8	129.9	120.4	93.4	P			(14)
0808-14	N8675 E6030 "	6" / 10" / 1	6.6	128.9	4.0	127.5	111.0	90.8	P			(15)

LAP MATCH TO FIGURE 2



DATE: 08-08-95

TROXLER DENSITY TESTS

RE-TEST FOR COMMON FILL

100 FOOT FIELD TESTING GRID

0 100 200

1 inch = 200 ft.

GEOSYNTEC CONSULTANTS

DWG: 3700F001 199501251447RT

FIGURE NO.	1
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: 09 day 08 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED)): 9"

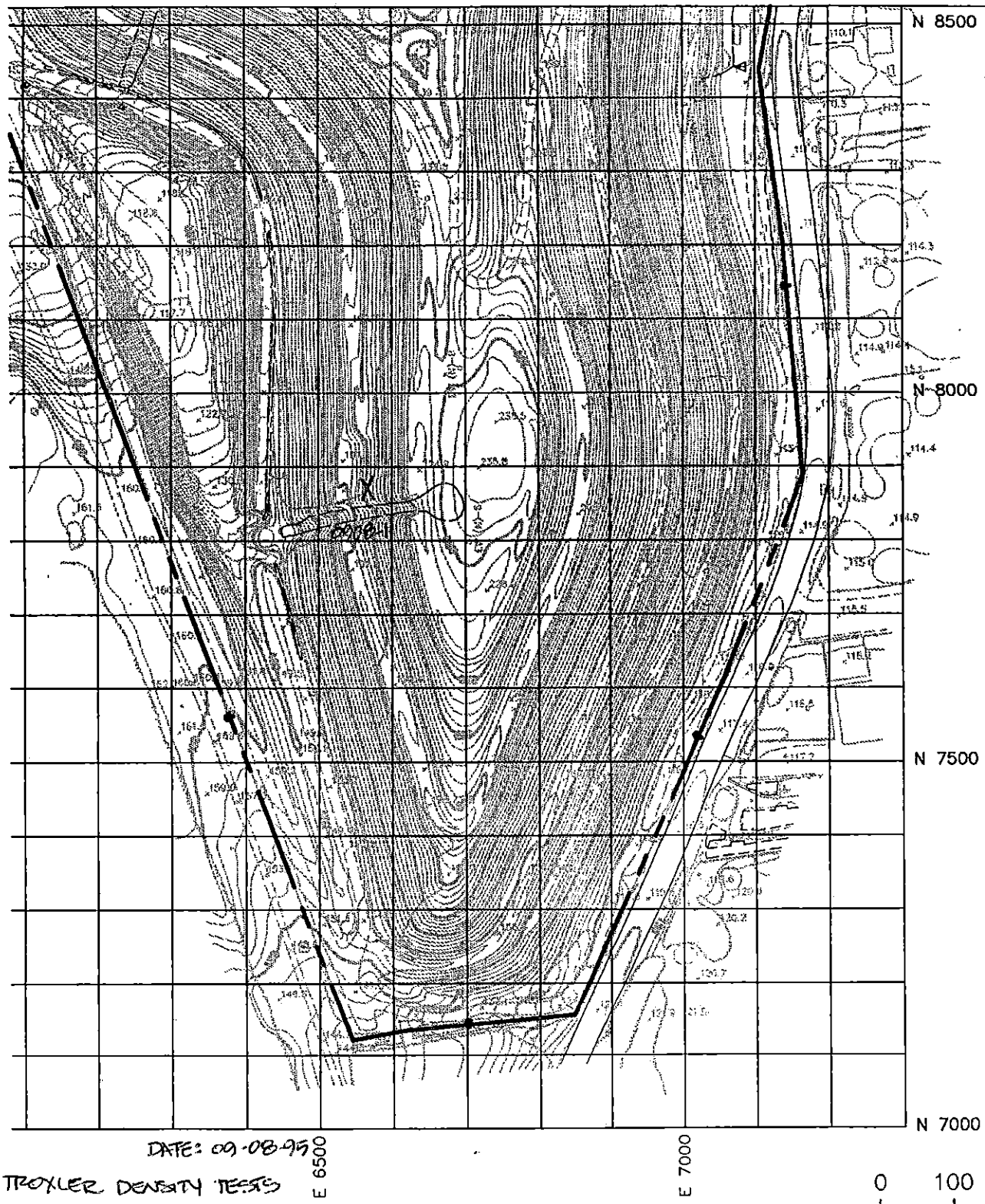
% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557: A B C) (CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH / ELEV / LIFT NO. (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
	COMMON											
0908-1	N7850 & E6550 WEST SLOPE	6"/9.5"/1	6.6	128.9	7.5	124.1	116.0	90.0	P			(2)

©GEO SYNTEC CONSULTANTS FILE NO.: 2-20-FNM

LAP MATCH TO FIGURE 2



DATE: 09-08-95

TROXLER DENSITY TESTS
COMMON FILL
RETEST

0 100 200

1 inch = 200 ft.

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants

DWG: 3700F001 199501251447RT

FIGURE NO.	1
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: 14 day 8 month 95 year

SPECIFICATION REQUIREMENTS

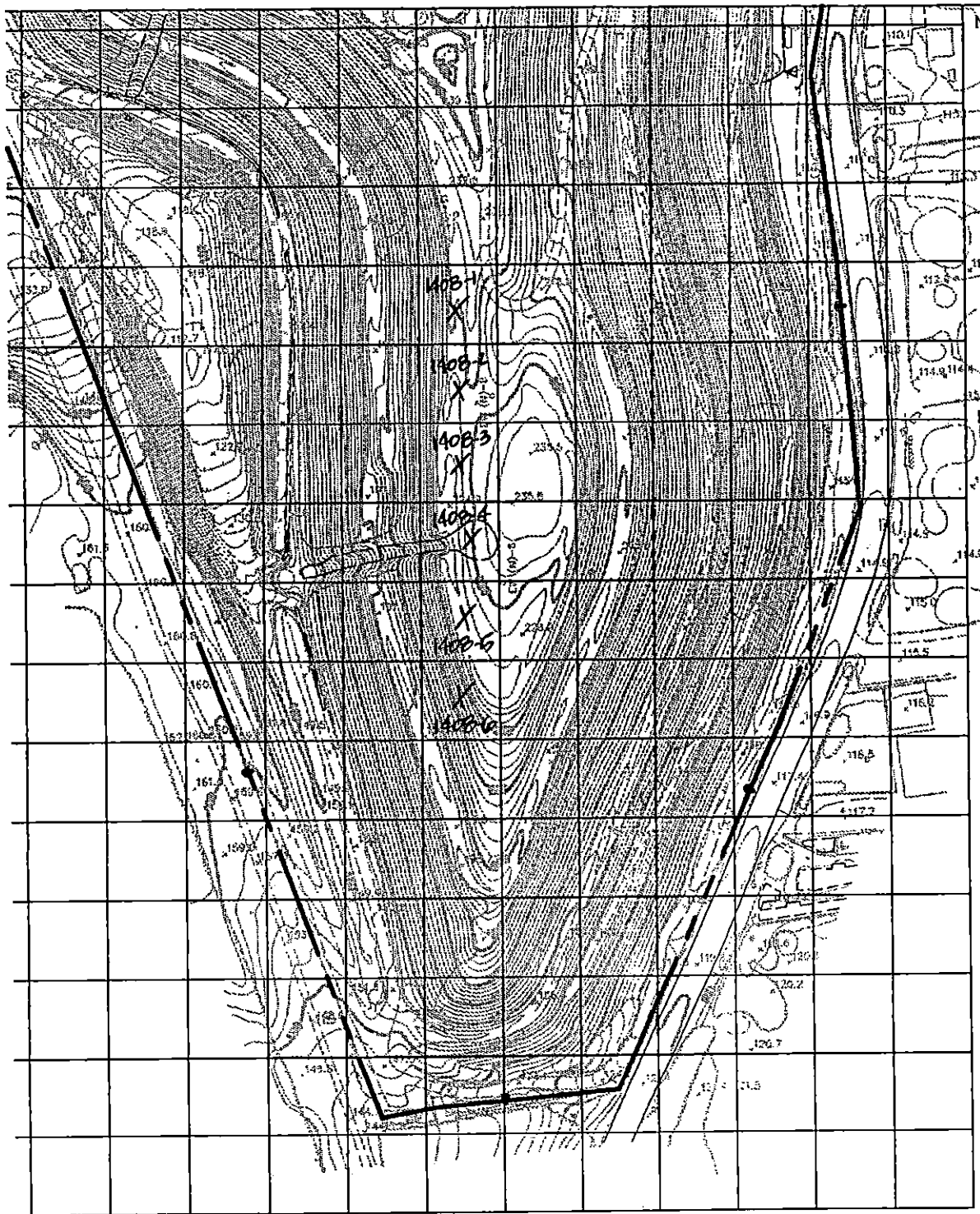
SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON (CIRCLE ONE) LIFT THICKNESS (LOOSE (COMPACTED)) 9"

% 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
1408-1	N 8150 E 6650 COMMON WEST SIDE	6"/9"/1	8.5	128.5	4.9	121.4	115.7	90.1	P			(2)
1408-2	N 8140 E 6645 "	6"/9"/1	8.5	128.5	4.8	122.5	116.9	91.0	P			(2)
1408-3	N 8150 E 6650 "	6"/9.5"/1	8.5	128.5	5.1	121.9	116.0	90.3	P			(2)
1408-4	N 8155 E 6655 "	6"/9.5"/1	8.5	128.5	5.0	121.3	115.6	90.0	P			(2)
1408-5	N 8155 E 6650 "	6"/10"/1	8.5	128.5	4.9	121.5	115.8	90.1	P			(2)
1408-6	N 8150 E 6640 "	6"/9"/1	8.5	128.5	4.8	121.4	115.9	90.2	P			(2)

LAP MATCH TO FIGURE 2



100 FOOT FIELD TESTING GRID

0 100 200

1 inch = 200 ft.

GeoSyntec Consultants

DWG: 3700F001 199501251447RT

FIGURE NO.	1
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. SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED)): 9"

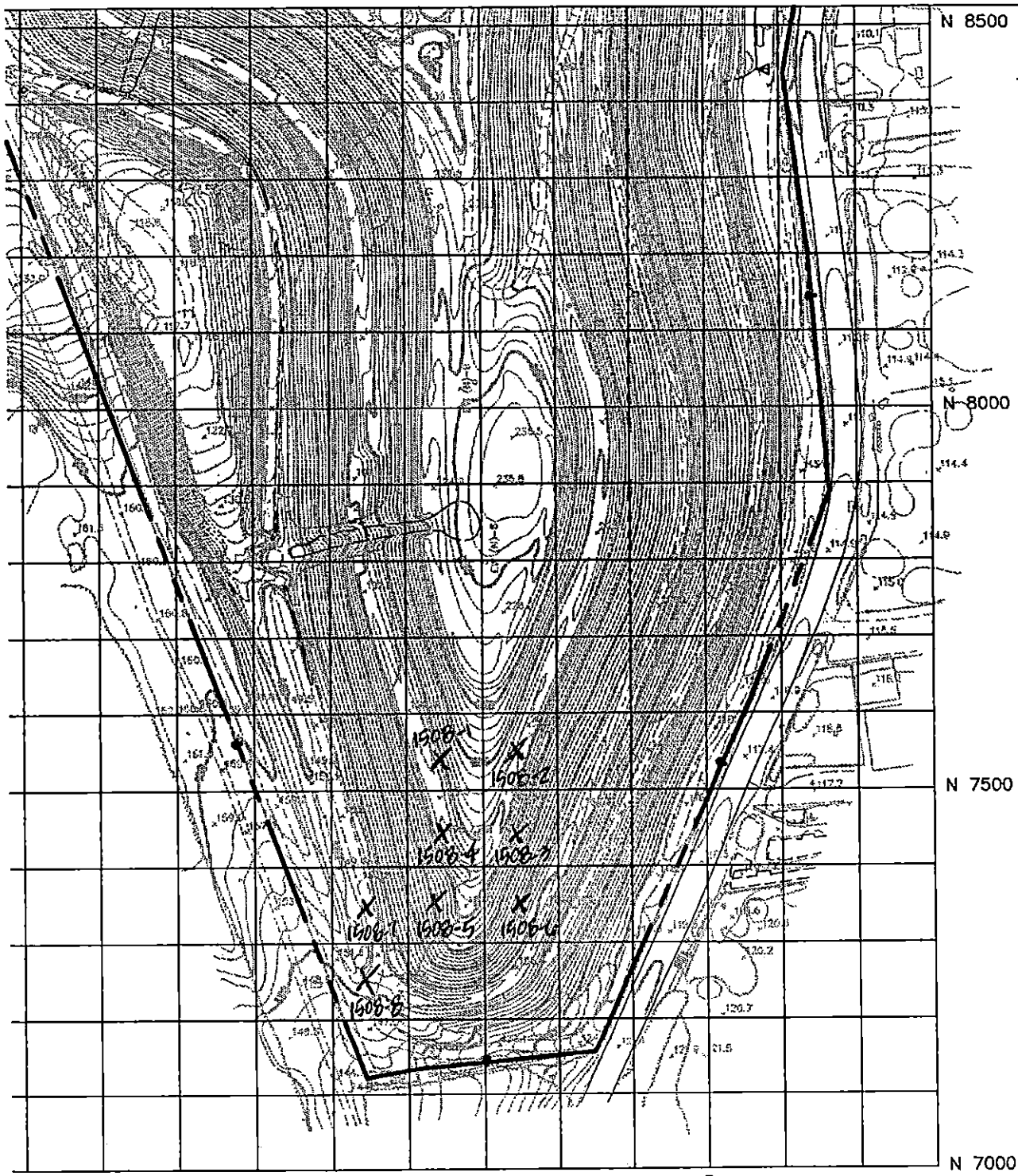
% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557): A B (C)

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
1508-1	N7550 E6650 COMMON SOUTH SLOPE	6"/10"/1	8.5	128.5	5.1	121.5	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 E6740 "	6"/9.5"/1	8.5	128.5	6.0	122.5	116.6	90.0	P			
1508-4	N7450 E6645 "	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	124.7	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	128.8	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"/UNKNOWN/1~~	~~6.6~~	~~130.4~~	~~6.9~~	~~120.1~~	~~112.3~~	~~86.1~~		~~F~~		
1508-11	N8160 E6160 WEST SLOPE	6"/9"/1	6.6	130.4	6.8	121.7	113.9	87.4		F		
1508-12	N8140 E6100 "	6"/9"/1	6.6	130.4	5.8	121.1	114.4	87.8		F		

* NOTE: CHANNEL "D" ANCHOR TRENCH PLACED IN 54" LIFT - NO COMPACTION.

LAP MATCH TO FIGURE 2



DATE: 15-8-95

TROXLER TESTS LOCATION

COMMON FILL

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.	

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

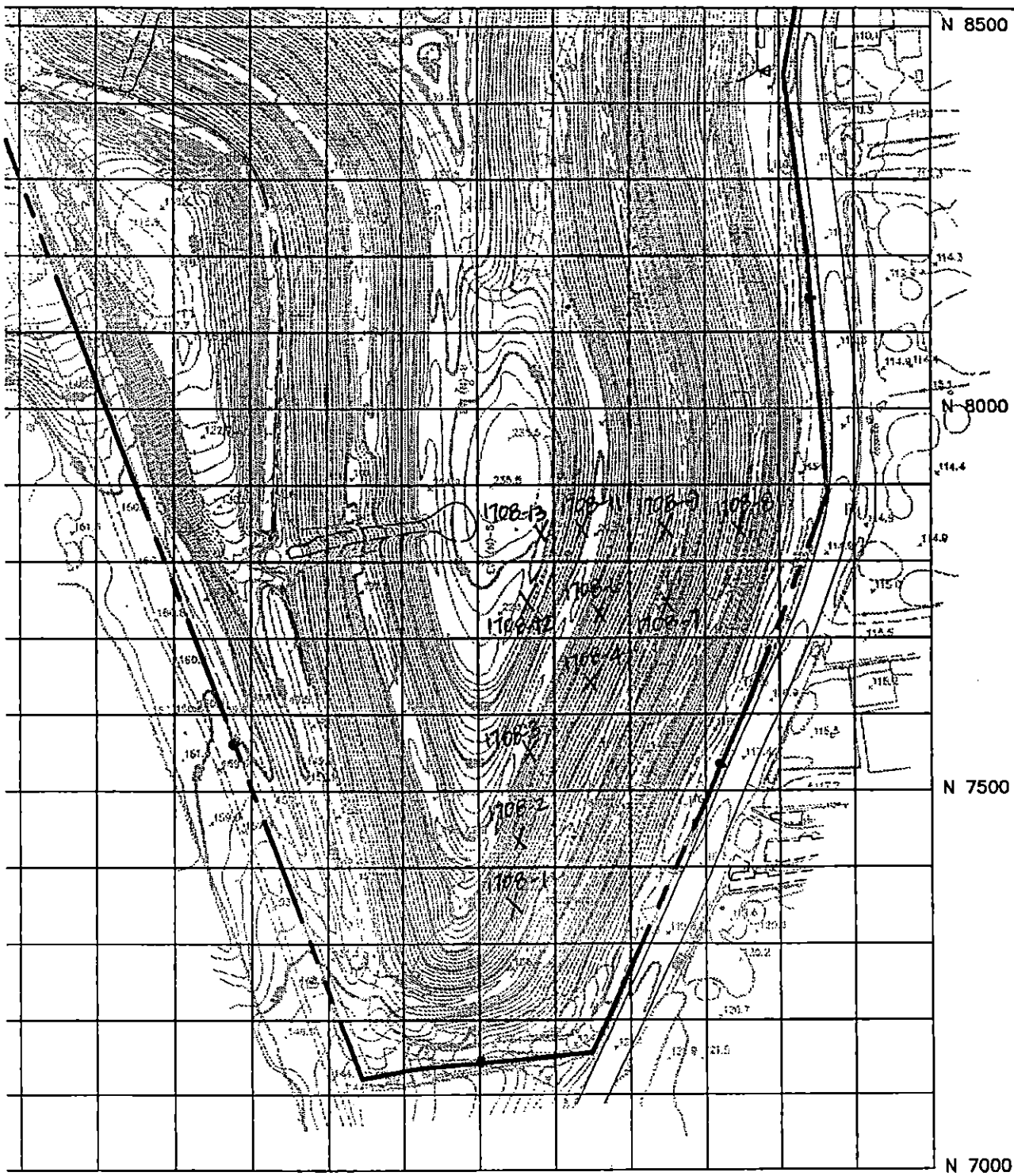
SOURCE: R. SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED)): 9"

% 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
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	125.8	119.4	92.2	P			
~~1708-5~~	~~N8050 & 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 & E6950 "	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	N7860 & E6950 "	6"/9"/1	8.5	129.5	5.1	122.7	116.8	90.2	P			
~~1708-10~~	~~N8750 & E6150~~ SELECT WEST 2ND LIFT	~~6"/9"/1~~	~~6.6~~	~~128.9~~	~~7.0~~	~~126.8~~	~~117.6~~	~~91.2~~	~~P~~			
1708-11	N7850 & E6860 COMMON EAST RETEST	6"/9"/1	8.5	129.5	6.9	124.6	116.6	90.0	P			
1708-12	N7750 & E6765 "	6"/8"/1	8.5	129.5	6.2	123.9	116.7	90.1	P			
1708-13	N7850 & E6780 "	6"/9"/1	8.5	129.5	3.8	112.0	107.9	83.4		F		

LAP MATCH TO FIGURE 2



17-08-95
TROXLER TEST LOCATIONS
COMMON FILL RETESTS

0 100 200
1 inch = 200 ft.

FIGURE 1 100 FOOT FIELD TESTING GRID

GEOSYNTEC CONSULTANTS

DWG: 3700F001 199501251447RT

FIGURE NO.	1
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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 18 day 08 month 95 year

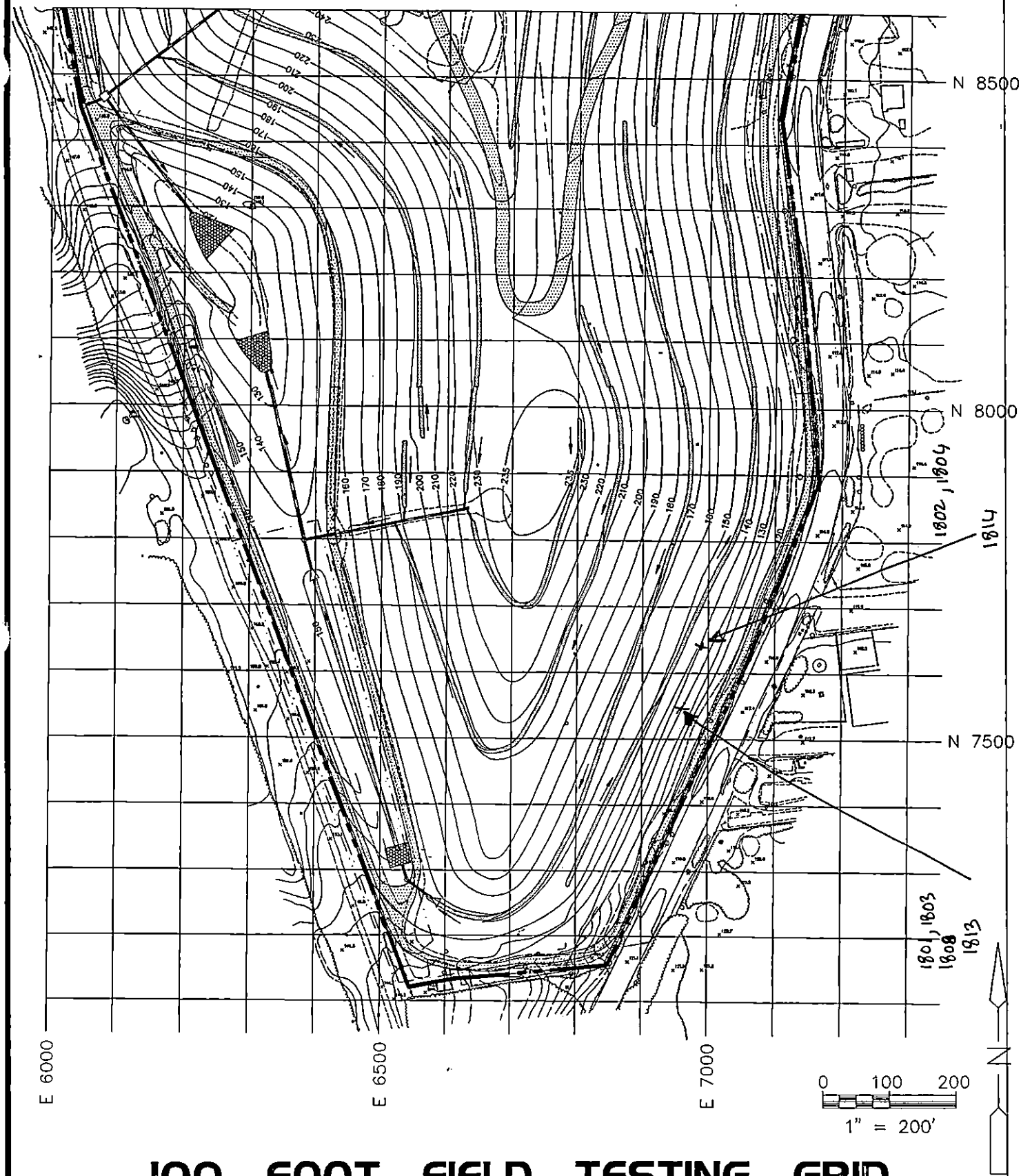
SPECIFICATION REQUIREMENTS

SOURCE: R. Schleider MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED)): 9"

% COMPACTION: ≥90% (85% for Pipe area) 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		
1808-1	N7550 ~ E6950 Comm Fill	6"/9.5/1	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 between 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" pipe bet 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-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: 21 day 08 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE / (COMPACTED): 9"
(CIRCLE ONE)

% COMPACTION: ≥90% ~~≥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. (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
2108-1	N7570 E7020 COMMON EAST RETEST	6"/10"/1	8.9	124.9	3.4	113.0	109.3	87.5		F	2108-3	
2108-2	N7650 E7030 "	6"/10"/1	8.9	124.9	4.8	120.8	115.2	92.3	P			
2108-3	N7570 E7020 "	6"/8"/1	8.9	124.9	4.9	121.8	116.1	93.0	P			
2108-4	N7450 E6960 "	6"/8"/1	8.9	124.9	6.5	122.2	114.8	91.9	P			
2108-5	N7360 E6925 "	6"/9"/1	8.9	124.9	5.8	129.7	122.5	98.1	P			
2108-6	N7250 E6840 "	6"/9"/1	8.9	124.9	3.8	127.0	122.3	97.9	P			
2108-7	N7250 E6760 "	6"/10"/1	8.9	124.9	4.2	120.4	115.6	92.6	P			
2108-8	N7340 E6840 "	6"/9"/1	8.9	124.9	3.5	117.6	113.7	91.0	P			
2108-9	N7450 E6850 "	6"/9"/1	8.9	124.9	4.9	113.4	118.9	90.8	P			
2108-10	N7550 E6840 "	6"/8"/1	8.9	124.9	5.1	119.9	114.1	91.3	P			
2108-11	N7550 E6730 "	6"/9"/1	8.9	124.9	5.0	123.1	117.2	93.8	P			
2108-12	N7450 E6750 "	6"/10"/1	8.9	124.9	5.7	119.3	112.9	90.4	P			
2108-13	N7350 E6750 "	6"/8"/1	8.9	124.9	5.5	118.5	112.4	90.0	P			
2108-14	N7650 E6750 "	6"/9"/1	8.9	124.9	4.1	118.3	113.6	91.0	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: 21 day 08 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/COMPACTED): 9"

(CIRCLE ONE)

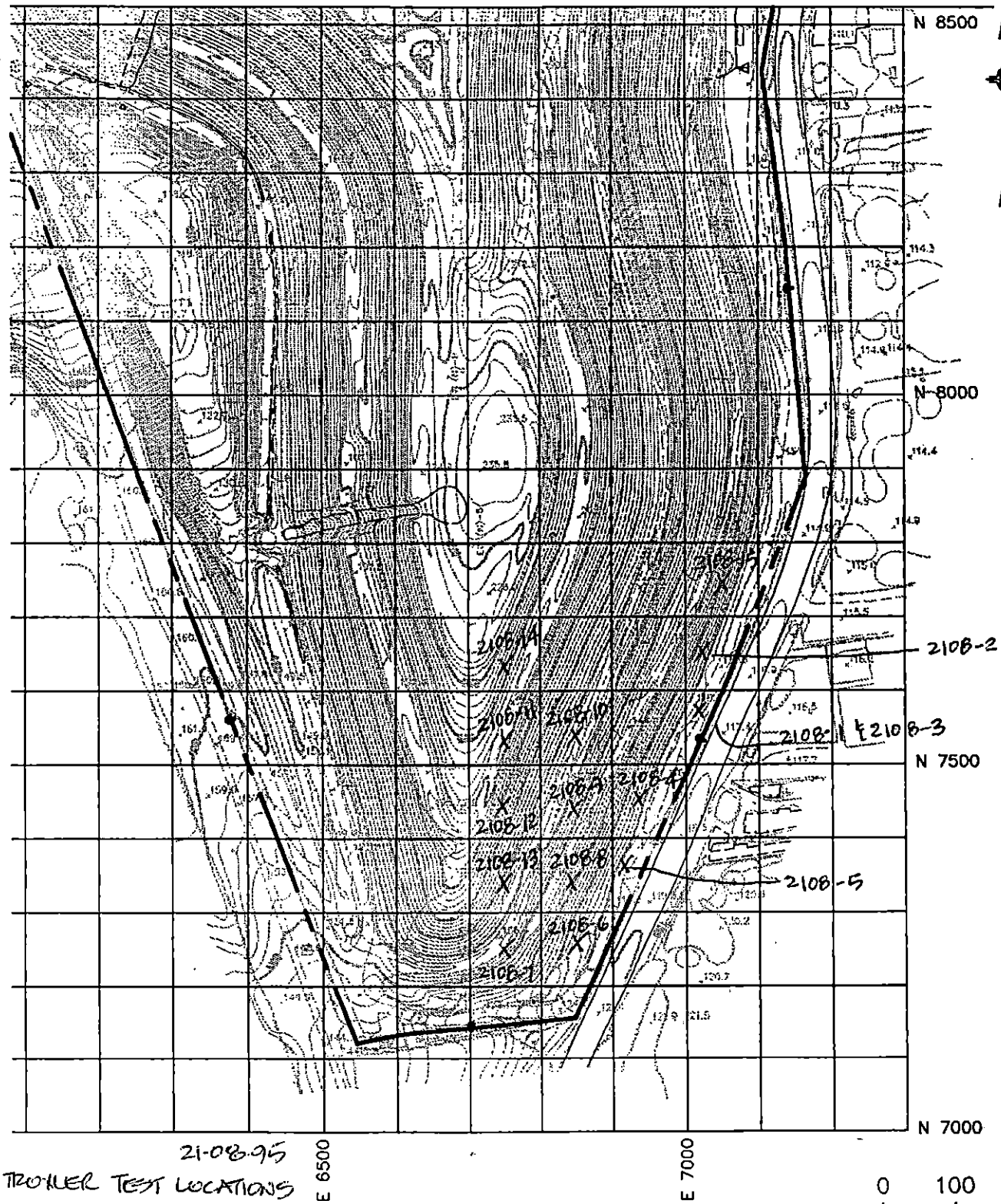
% COMPACTION: ≥90% COMMON / ≥95% ~~SELECT~~ MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557: A B C)

(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE 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
2108-15	N7750'E7050 COMMON EAST RETEST	6"/9"/1	8.9	124.9	5.0	118.1	112.5	90.1	P			(2)
2108-16	CHANNEL 'F' SEE SITE PLAN	10"/18"/1	8.5	129.5	6.6	131.6	124.0	95.8	P			(2)
2108-17	CHANNEL 'F' SEE SITE PLAN	10"/18"/1	8.5	129.5	8.4	131.5	123.1	95.1	P			(2)
~~2108-18~~	~~N8650'E6650 SELECT 1ST LIFT~~	~~6"/10"/1~~	~~8.5~~	~~129.5~~	~~5.5~~	~~127.9~~	~~121.3~~	~~93.7~~	~~P~~			~~(2)~~
~~2108-19~~	~~N8650'E6250 SELECT 1ST LIFT~~	~~6"/8.5"/1~~	~~8.5~~	~~129.5~~	~~4.7~~	~~119.8~~	~~114.5~~	~~88.4~~	~~P~~			~~(2)~~

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.	

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: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED)): 9"

% COMPACTION: ~~≥95% / ≥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: 1

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	6/9/1	8.3	128.6	3.5	128.4	124.0	96.4	P			RC
3008Z	N 7950 E 6860 RETEST COMMON	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 RETEST COMMON	6/10/1	8.3	128.6	3.2	119.7	116.0	90.2	P			RC
30084	N 8150 E 6860 RETEST	6/8/1	8.3	128.6	4.9	131.3	125.2	97.4	P			RC
30085	N 8050 E 6940 RETEST COMMON	6/10/1	8.3	128.6	5.1	122.8	116.8	90.9	P			RC
30086	N 7950 E 6950 RETEST COMMON SEL.FILL	6/8/1	8.3	128.6	5.4	124.5	118.1	91.9	P			RC
~~30087~~	~~N 8250 E 6550~~ 2ND COMMON	~~6/9/2~~	~~6.6~~	~~128.9~~	~~5.5~~	~~118.6~~	112.5	~~87.2~~	P			RC
30088	N 8150 E 6980 RETEST COMMON	6/8/1	8.3	128.6	4.1	126.6	121.6	94.5	P			RC
30089	N 8050 E 7020 RETEST COMMON	6/8/1	8.3	128.6	4.6	119.4	114.2	88.8		F	30810	RC
30081	N 8050 E 7050 RETEST COMMON	6/8/1	~~6.6~~ 8.3	124.9	4.7	118.4	113.1	90.6	P			RC
30081	N 7950 E 7050 RETEST COMMON	6/10/1	6.6	124.9	4.5	118.4	113.3	90.7	P			RC
30081	N 7950 E 7120 RETEST COMMON	6/9/1	8.3	128.6	4.8	124.7	118.9	92.5	P			RC
30081	N 7950 E 7120 RETEST COMMON	6/9/1	8.3	128.6	5.1	122.6	116.6	90.7	P			RC
30081	N 8050 E 7120 RETEST	6/8/1	8.3	128.6	5.6	122.2	115.7	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

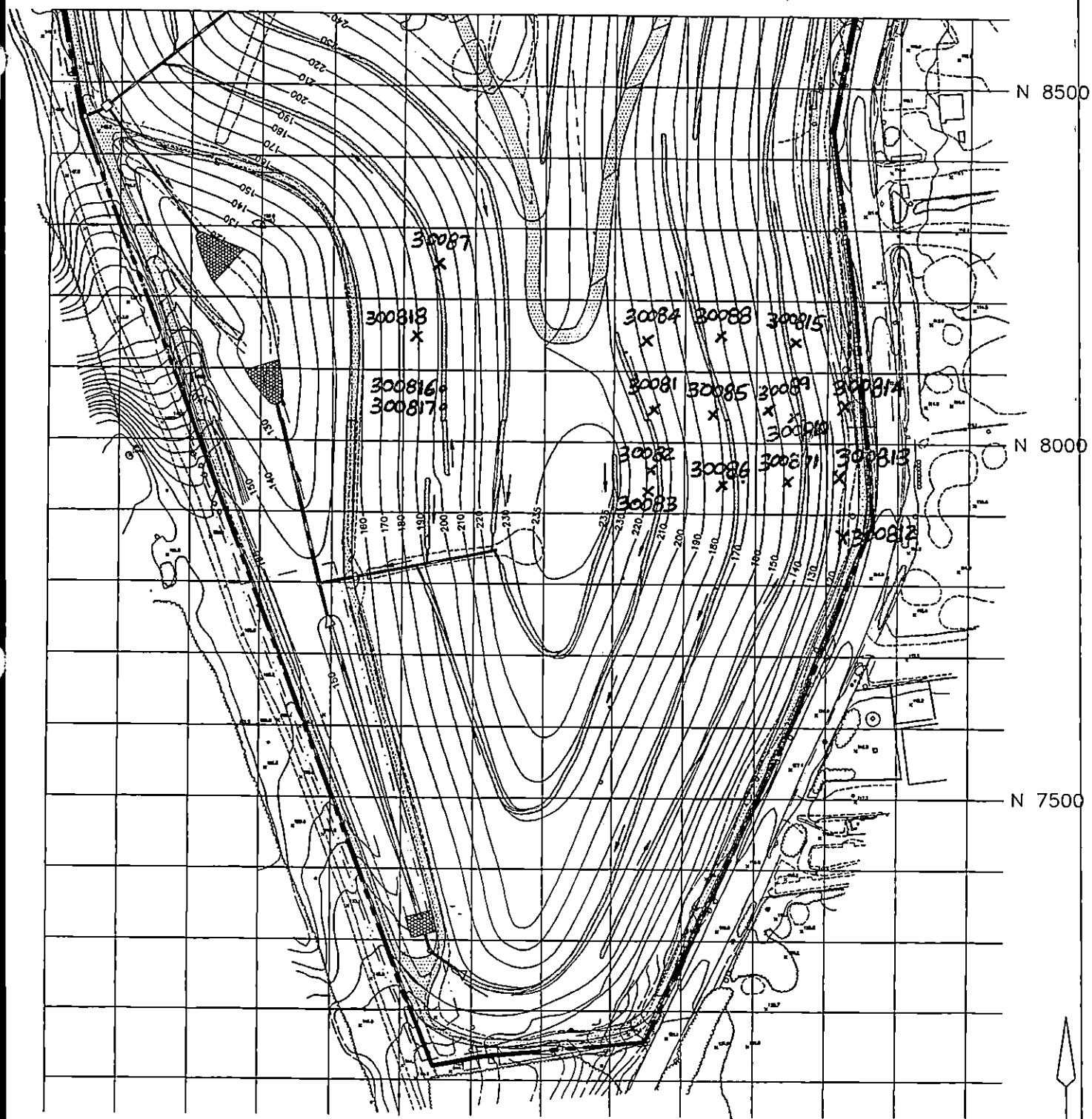
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON 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		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	128.6	3.6	120.3	116.1	90.3	P			RC/D
300816	CHANNEL E 1ST	8/18/1	~~8.3~~ 6.6	128.9	7.6	122.0	113.4	87.9	P			RC/D
300817	CHANNE E 2ND	6/12/2	6.6	128.9	4.7	116.1	110.9	86.0	P			RC/D
300818	N 8150 E 6550 1ST	6/9/1	6.6	128.9	5.2	122.2	116.1	90.1	P			RC/D



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

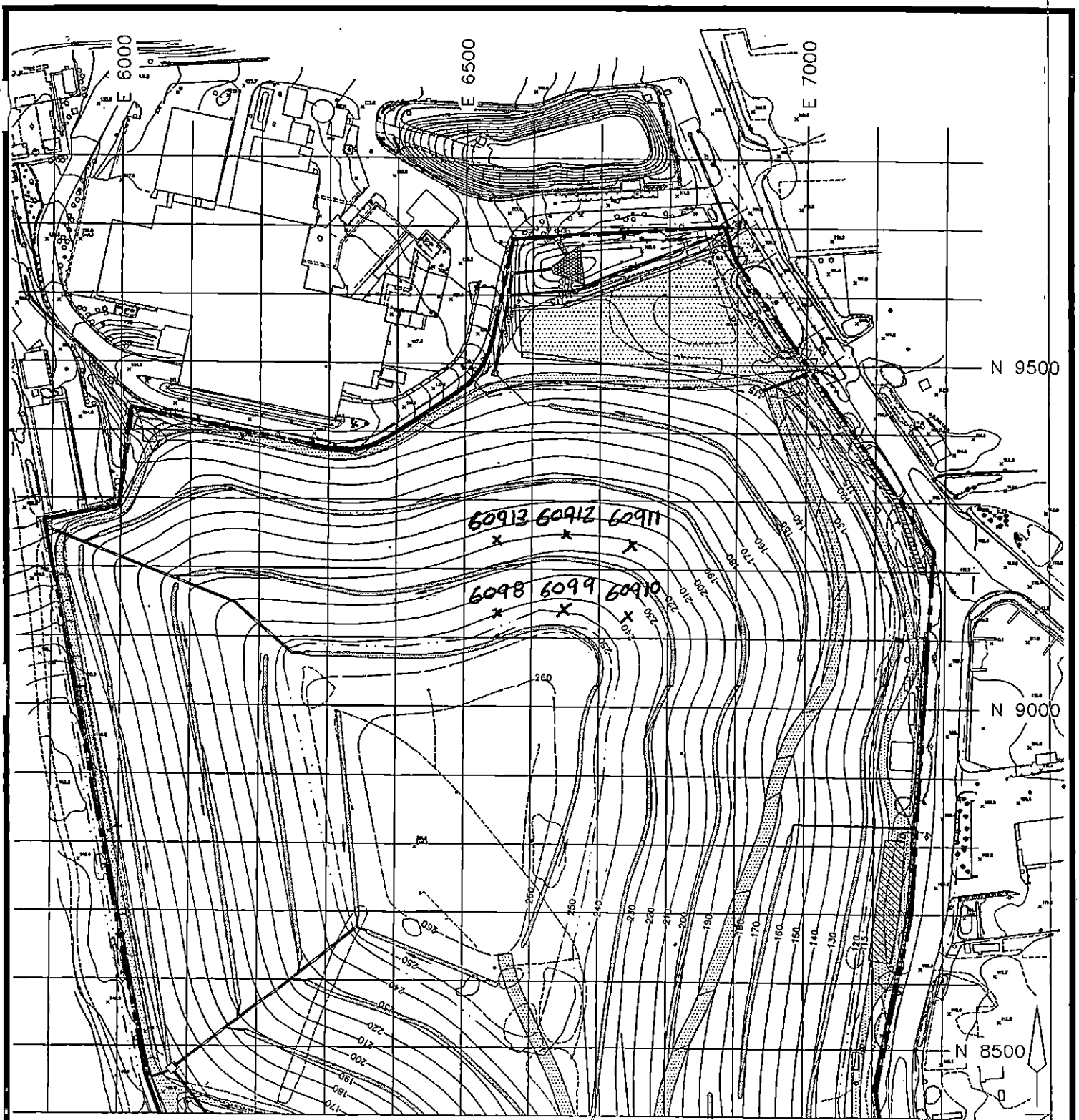
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE / COMPACTED): 9"

% COMPACTION: ~~≥ 85%~~ ≥ 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
~~6091~~	~~N 7750 E 6480 1ST~~	~~6/9/1~~	~~6.6~~	~~128.9~~	~~5.5~~	~~116.6~~	~~110.6~~	~~85.8~~	~~P~~			~~RC~~
~~6092~~	~~N 7650 E 6550 1ST~~	~~6/9/1~~	~~6.6~~	~~128.9~~	~~3.9~~	~~115.1~~	~~110.8~~	~~85.9~~	~~P~~			~~RC~~
~~6093~~	~~N 7750 E 6650 1ST~~	~~6/9/1~~	~~6.6~~	~~128.9~~	~~5.9~~	~~117.7~~	~~111.2~~	~~86.2~~	~~P~~			~~RC~~
~~6094~~	~~N 7650 E 6650 1ST~~	~~6/9/1~~	~~6.6~~	~~128.9~~	~~6.4~~	~~117.2~~	~~110.2~~	~~85.5~~	~~P~~			~~RC~~
~~6095~~	~~CHANNEL E W 1ST~~	~~6/10/1~~	~~6.6~~	~~128.9~~	~~6.9~~	~~124.5~~	~~117.6~~	~~91.2~~	~~P~~			~~RC~~
~~6096~~	~~CHANNEL E W 2ND~~	~~6/12/1~~	~~6.6~~	~~128.9~~	~~6.0~~	~~125.6~~	~~118.5~~	~~91.9~~	~~P~~			~~RC~~
~~6097~~	~~CHANNEL E W 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	129.6	6.6	123.5	115.9	90.1	P			RC
6099	N 9150 E 6650 COMMON RETEST	6/8/1	8.3	129.6	4.0	126.1	121.2	94.3	P			RC
60910	N 9120 E 6750 COMMON RETEST	6/9/1	8.3	128.6	5.6	129.5	122.6	95.3	P			RC
60911	N 9250 E 6750 RETEST COMMON	6/8/1	8.3	128.6	4.7	127.9	122.2	95.0	P			RC
60912	N 9250 E 6650 RETEST COMMON	6/9/1	8.3	128.6	5.5	126.9	120.3	93.6	P			RC
60913	N 9250 E 6550 RETEST	6/9/1	8.3	129.6	5.8	123.1	115.9	90.0	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-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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 7 day 9 month 95 year

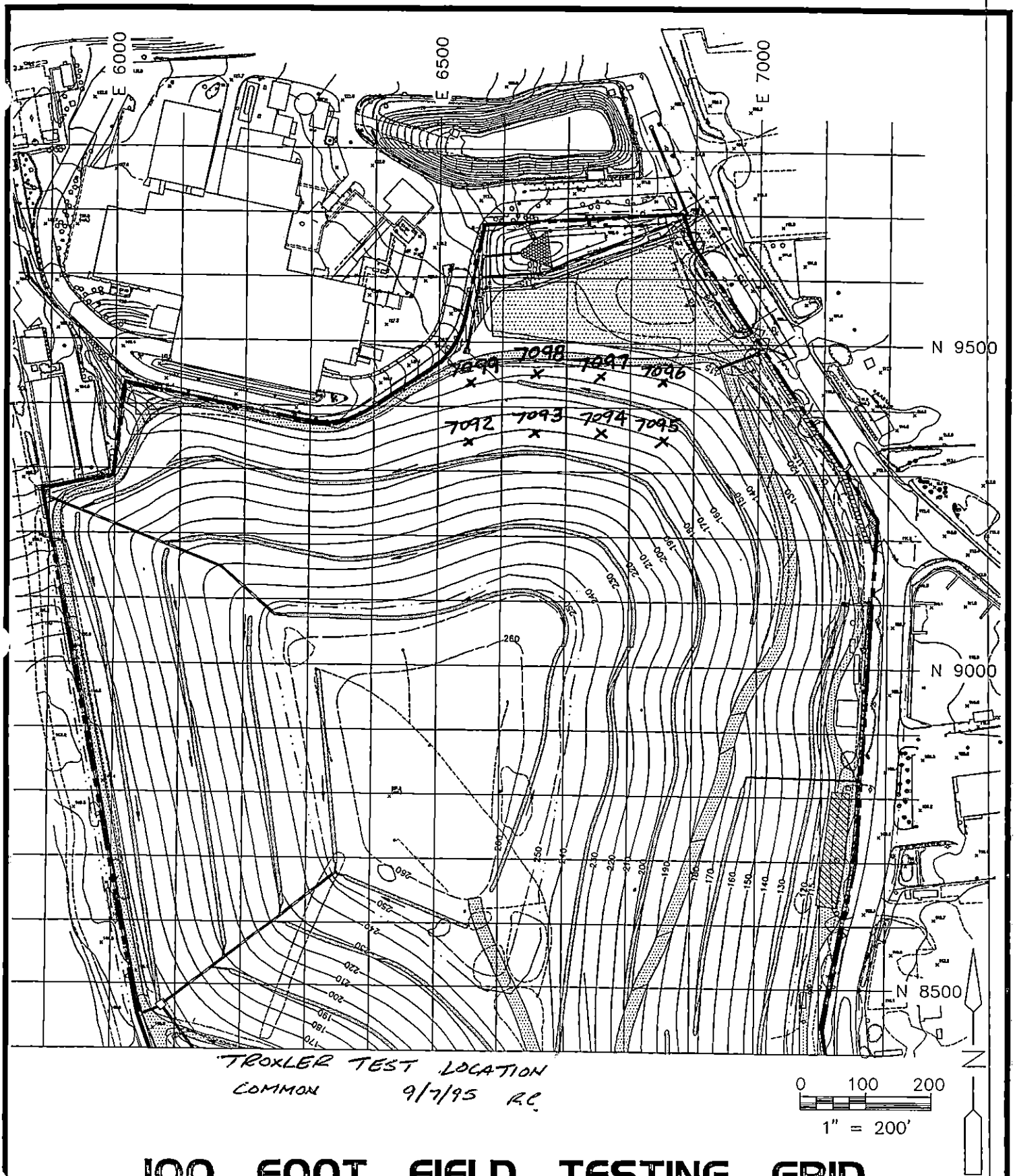
SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE / COMPACTED): 9"

% COMPACTION: ~~≥ 85%~~ ≥ 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
~~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 6550 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 9250 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	2.7	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
~~7010~~	~~N 8050 E 6450 2nd~~	~~6/9/2~~	~~6.6~~	~~128.9~~	~~5.9~~	~~120.4~~	~~113.7~~	~~88.2~~	P			RC
~~7011~~	~~N 8150 E 6450 2nd~~	~~6/9/2~~	6.6	128.9	4.8	119.0	113.5	88.1	P			RC
~~7012~~	~~N 8250 E 6450 2nd~~	~~6/9/2~~	6.6	128.9	5.1	119.3	113.5	88.0	P			RC
~~7013~~	~~N 8550 E 6250 2ND~~	~~6/9/2~~	~~6.6~~	~~128.9~~	~~4.1~~	~~119.4~~	~~114.6~~	~~88.9~~	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-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

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: COMMON LIFT THICKNESS (LOOSE (COMPACTED)) 9"

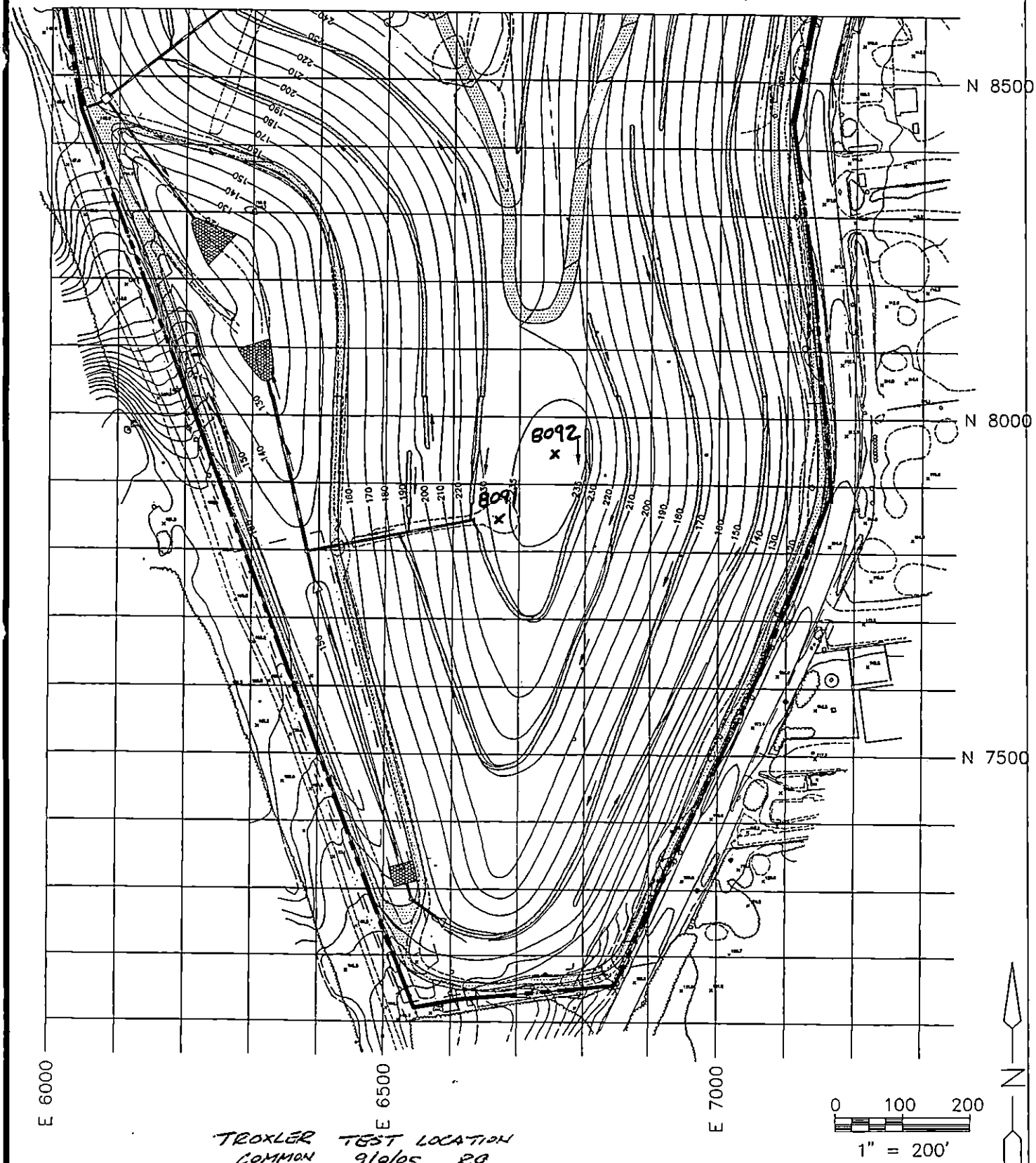
(CIRCLE ONE)

% 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		
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	125.4	118.0	91.8	P			RL
~~8093~~	~~N 7950 E 6450 SELECT 2ND~~	~~6/9/2~~	~~6.6~~	~~128.9~~	~~5.0~~	~~124.4~~	~~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
COMMON 9/8/95 RO.

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: 15 day 9 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (CIRCLE ONE) (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED)): 8"

% COMPACTION: ≥ 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		
15091	N 9050 E 6550	COMMON 1ST COMMON	8.3	128.6	3.3	119.9	110.1	90.3	P			RC
15092	N 9050 E 6650	1ST	8.3	128.6	4.6	129.4	123.7	96.2	P			RC

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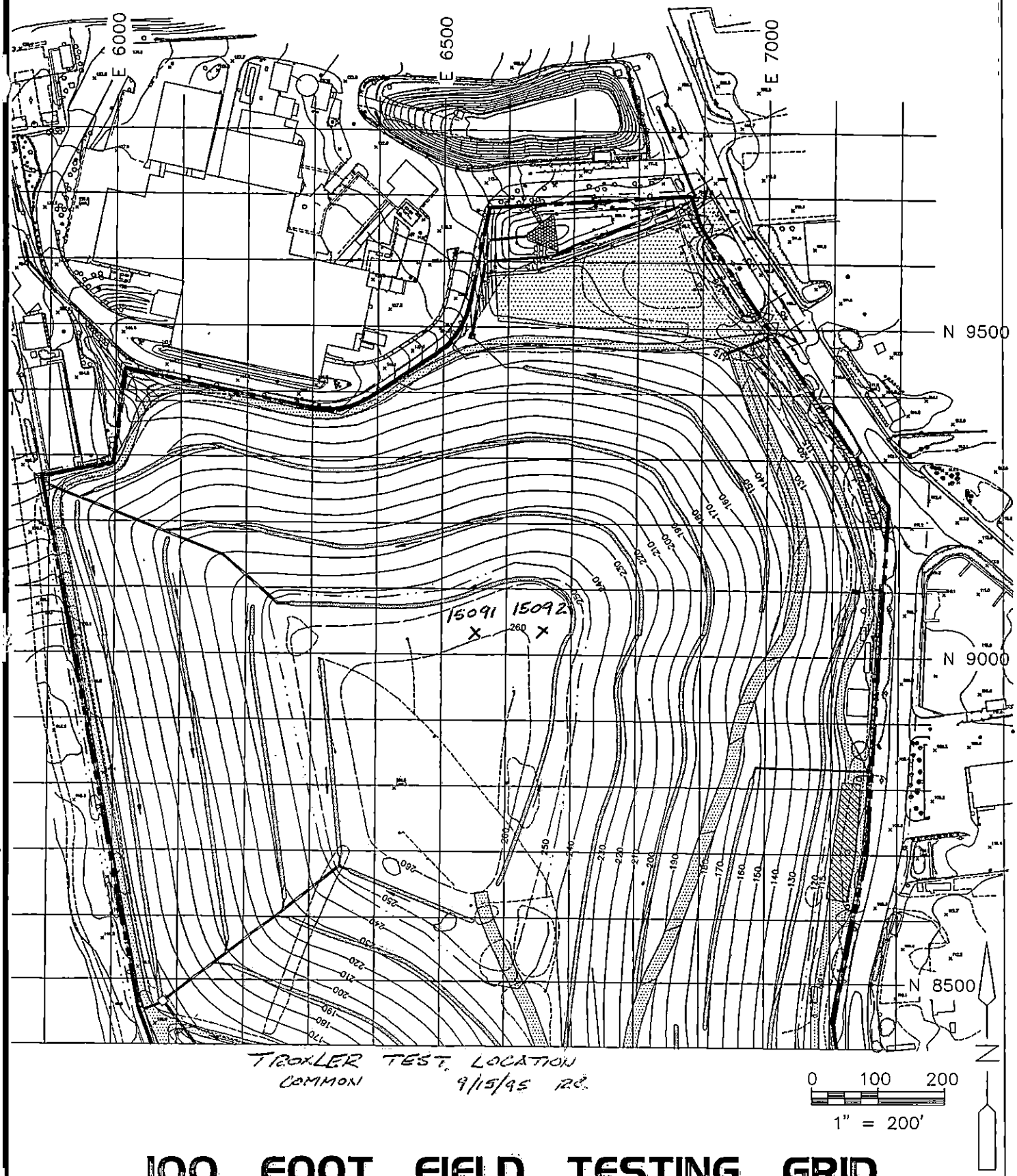
SHEET NO. 62 OF 70



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: 25 day 9 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED): 9"

(CIRCLE ONE)

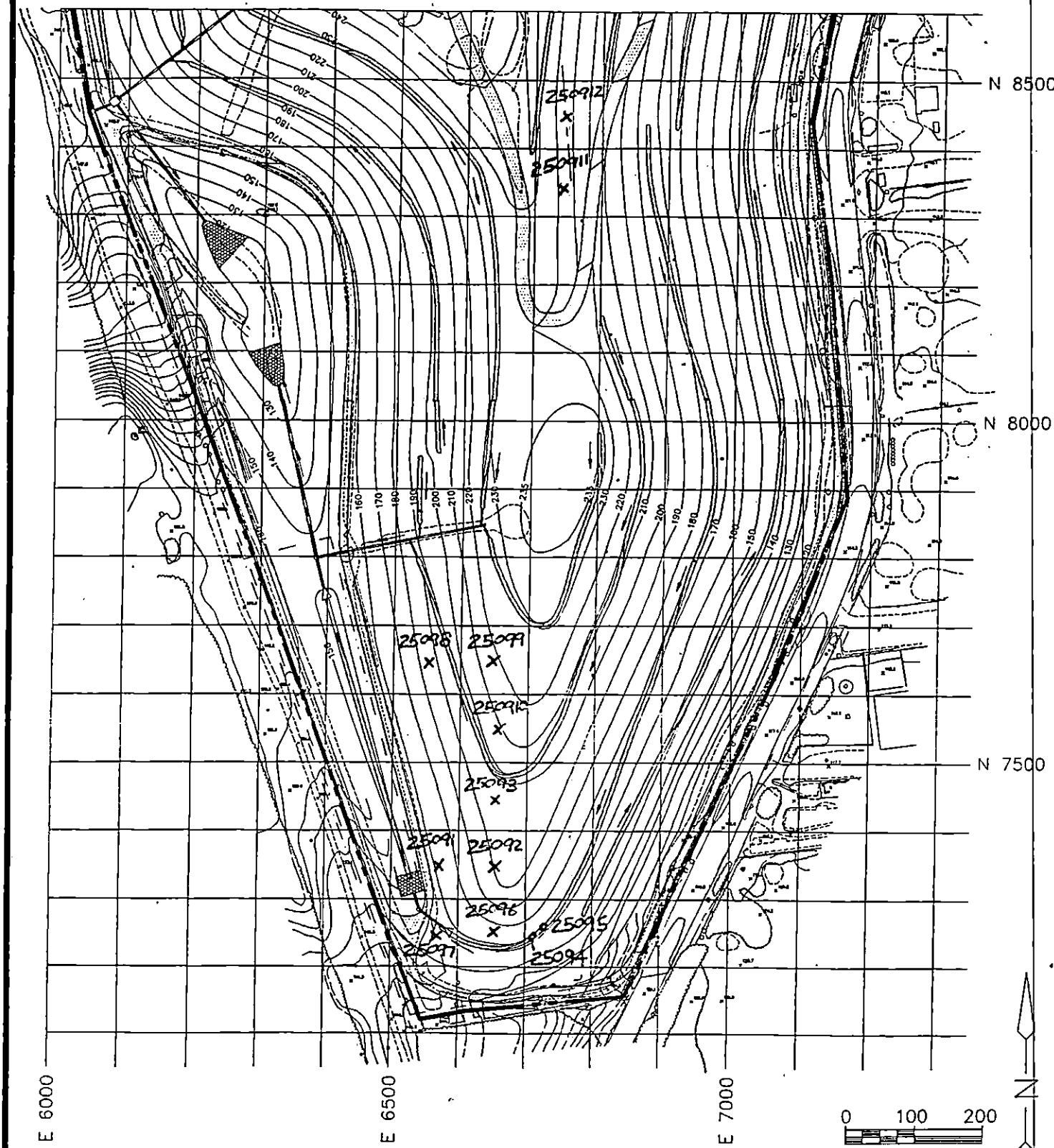
% COMPACTION: ~~≥95% SELECT~~ // ≥90% COMMON MOISTURE RANGE: ± 2%

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		
~~25091~~	~~N 7350 E 6570~~ SELECT 1ST	6/9/1	6.6	128.9	8.1	124.8	114.7	89.0	P			RC
~~25092~~	~~N 7350 E 6650~~ SELECT 1ST	6/6½/1	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	6/8/1	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 7250 E 6570~~ SELECT 2ND	6/9/2	6.6	128.9	7.0	122.7	114.7	89.0	P			RC
~~25099~~	~~N 7150 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	6/9/1	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: 31 day 10 month 95 year

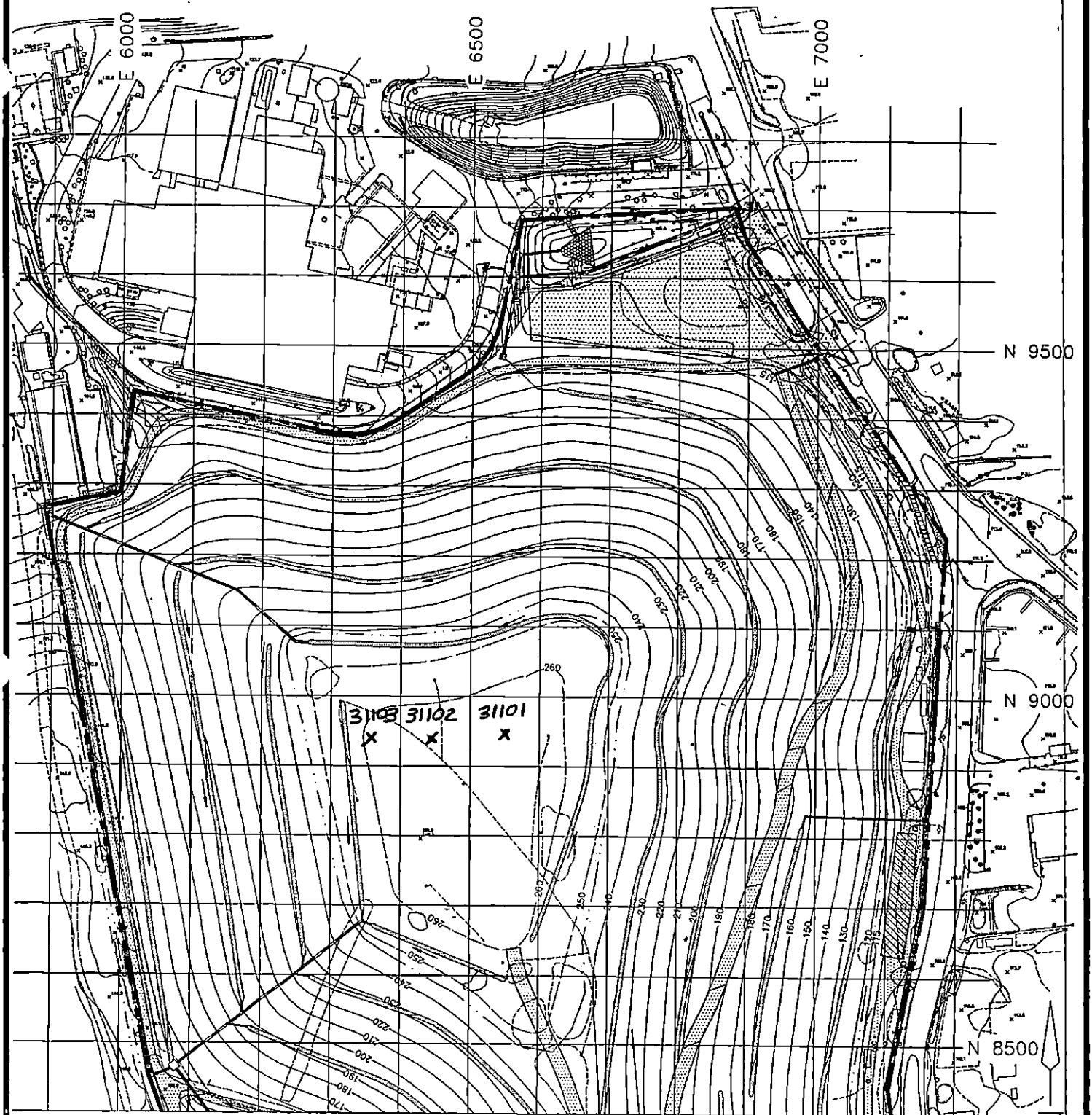
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED): 8"
(CIRCLE ONE)

% COMPACTION: ≥ 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		
31101	N 8950 E 6550	6/8/1	7.6	130.1	8.7	132.5	121.9	94.5	P			RC
31102	N 8950 E 6450	6/8/1	7.6	130.1	9.9	130.5	118.7	92.1	P			RC
31103	N 8950 E 6350	6/8/1	7.6	130.1	8.8	131.5	120.9	93.8	P			RC



TROXLER TEST LOCATION
COMMON 10/31/95 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-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 11 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED)): —

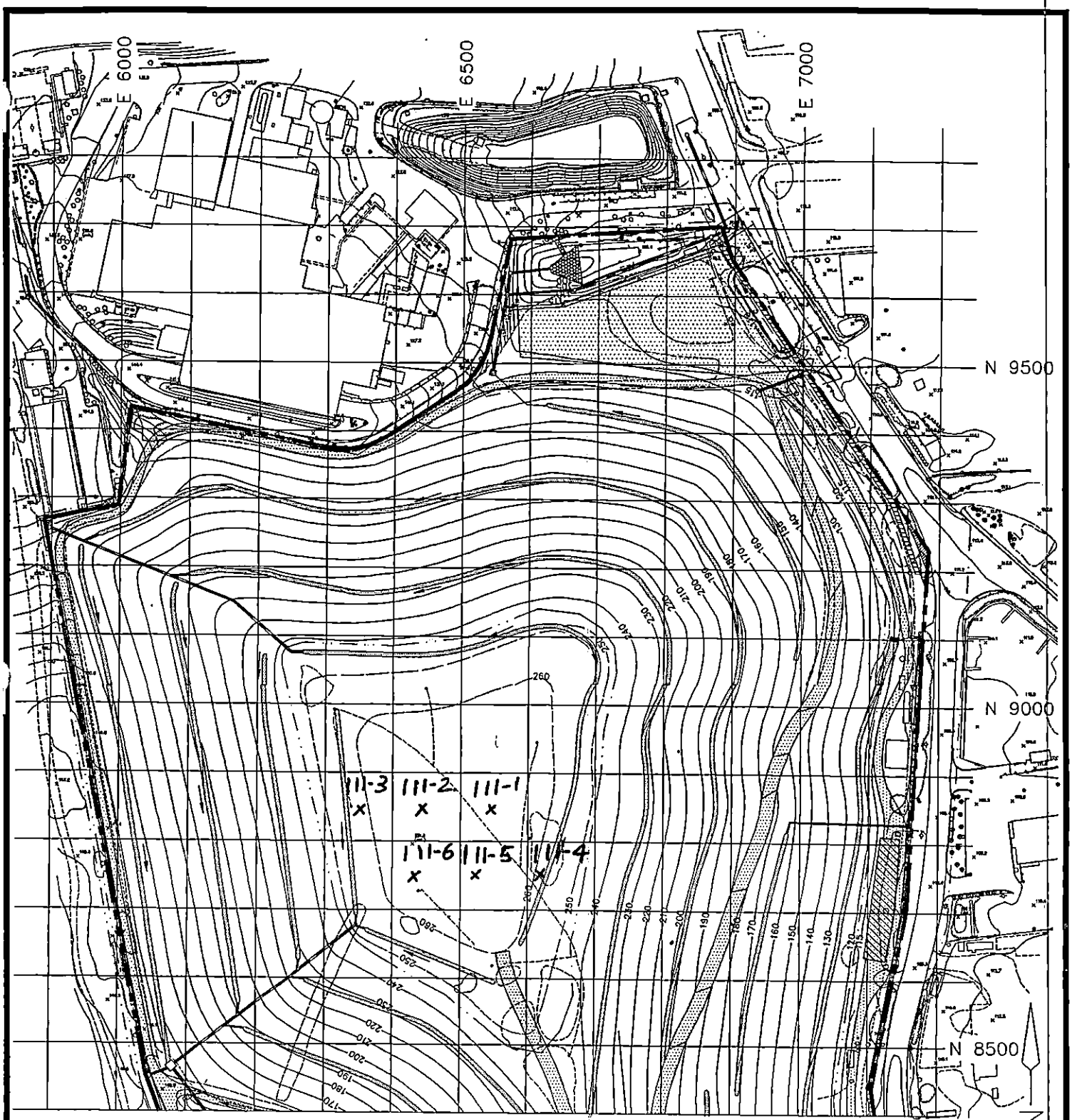
(CIRCLE ONE)

% COMPACTION: ≥ 90% COMMON MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B (C)

(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 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		
1.11-1	N 8850 E 6550	6/9/1	7.6	130.1	10.2	132.7	120.5	92.6	P			RC
1.11-2	N 8850 E 6450	6/9/1	7.6	130.1	9.0	130.5	119.8	92.1	P			RC
1.11-3	N 8850 E 6350	6/8/1	7.6	130.1	9.5	132.9	121.4	93.3	P			RC
1.11-4	N 8750 E 6620	6/8/1	7.6	130.1	8.6	128.2	118.1	90.8	P			RC
1.11-5	N 8750 E 6520	6/10/1	7.6	130.1	10.2	131.9	119.7	92.0	P			RC
1.11-6	N 8750 E 6430	6/8/1	7.6	130.1	9.2	128.1	116.6	90.5	P			RC



TROXLER TEST LOCATION
COMMON 11/1/95 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: 9 day 11 month 95 year

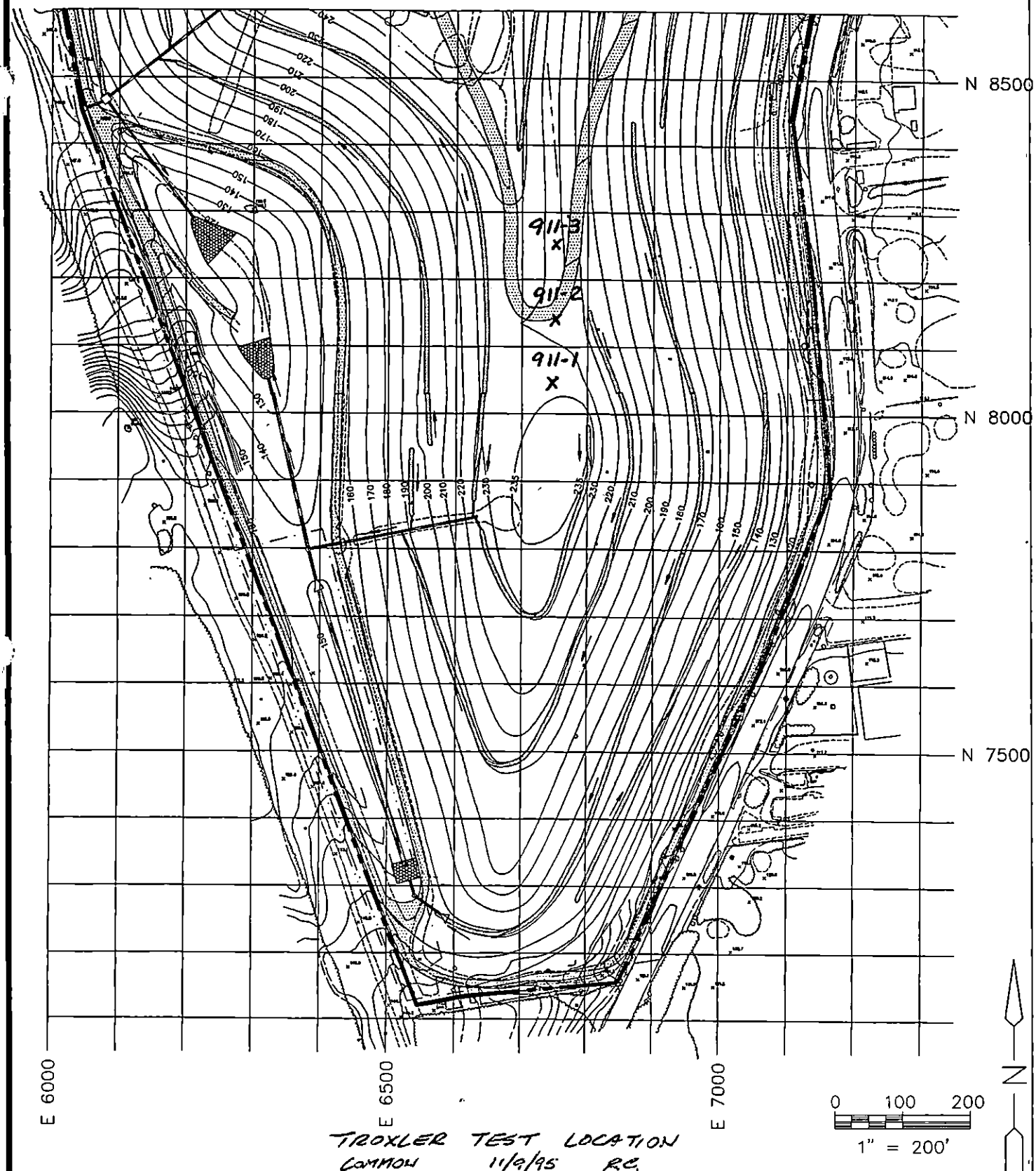
SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: — LIFT THICKNESS (LOOSE (COMPACTED): 9
(CIRCLE ONE)

% COMPACTION: ≥ 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		
911-1	N8050E6750	6/7/1	7.6	130.1	7.7	127.6	118.5	91.1	P			RG
911-2	N8150E6750	6/8/1	7.6	130.1	7.5	127.0	118.1	90.8	P			RG
911-3	N8250E6750	6/7/1	7.6	130.1	7.8	127.5	118.2	90.9	P			RG



TROXLER TEST LOCATION
COMMON 11/9/95 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: 17 day 11 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON LIFT THICKNESS (LOOSE/(COMPACTED): —

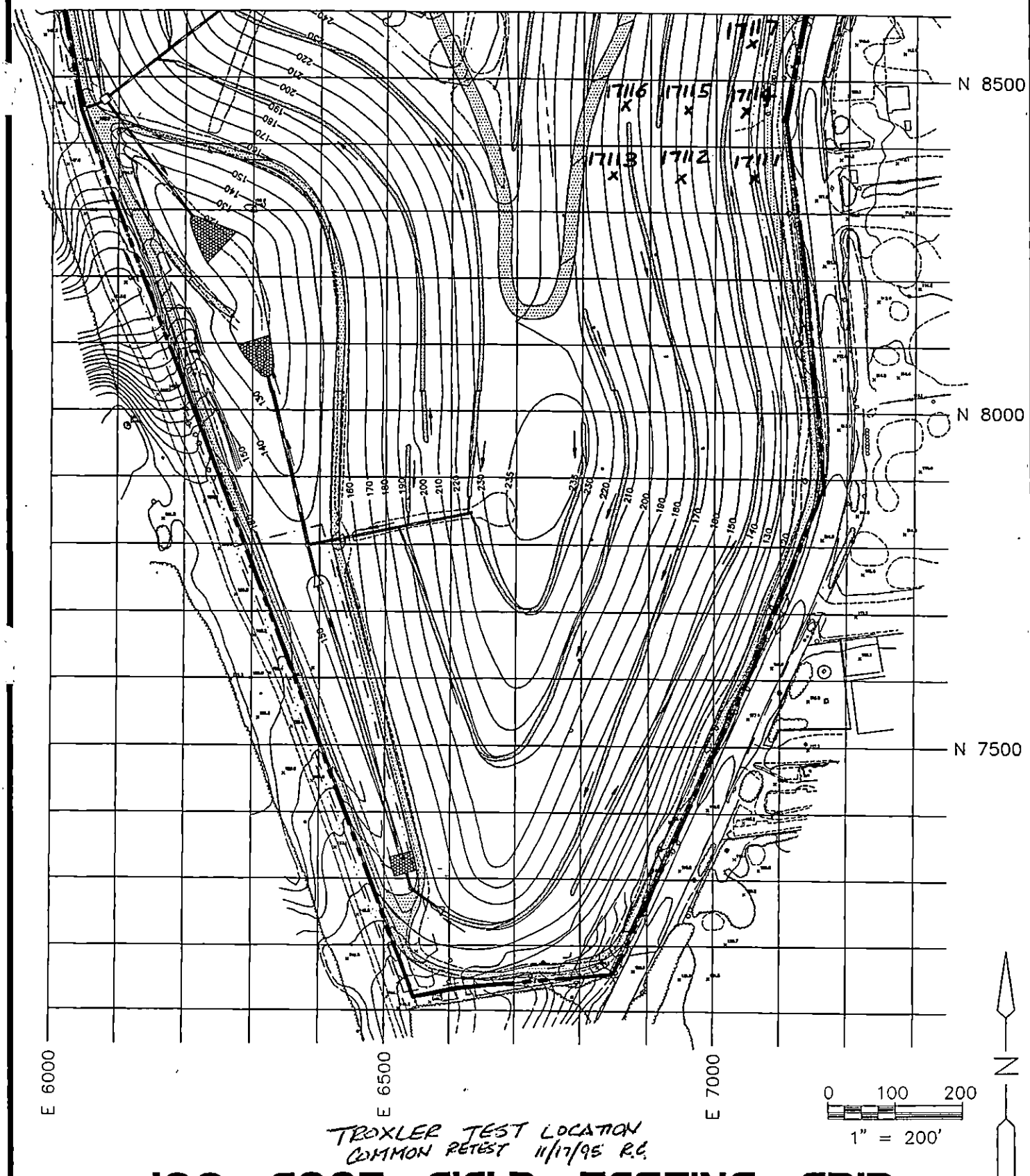
(CIRCLE ONE)

% COMPACTION: ≥ 90% MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B C

(CIRCLE ONE)

NUCLEAR GAUGE TYPE: 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		
1711-1	N 8350 E 7050 RETEST	6/7/1	8.3	128.6	9.2	128.3	117.4	90.3	P			RC
1711-2	N 8350 E 6950 "	6/7/1	8.3	128.6	8.8	129.7	119.2	92.7	P			RC
1711-3	N 8350 E 6850 "	6/7/1	8.3	128.6	8.3	130.2	120.2	93.4	P			RC
1711-4	N 8450 E 7050 "	6/7/1	8.3	128.6	9.3	128.6	117.7	90.4	P			RC
1711-5	N 8450 E 6950 "	6/8/1	8.3	128.6	9.0	130.2	119.4	92.9	P			RC
1711-6	N 8450 E 6850 "	6/7.5/1	8.3	128.6	8.5	129.0	118.9	92.4	P			RC
1711-7	N 8550 E 7050 "	6/7/1	8.3	128.6	9.3	128.9	117.9	91.7	P			RC



TROXLER TEST LOCATION
COMMON RETEST 11/17/95 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: 21 day 11 month 95 year

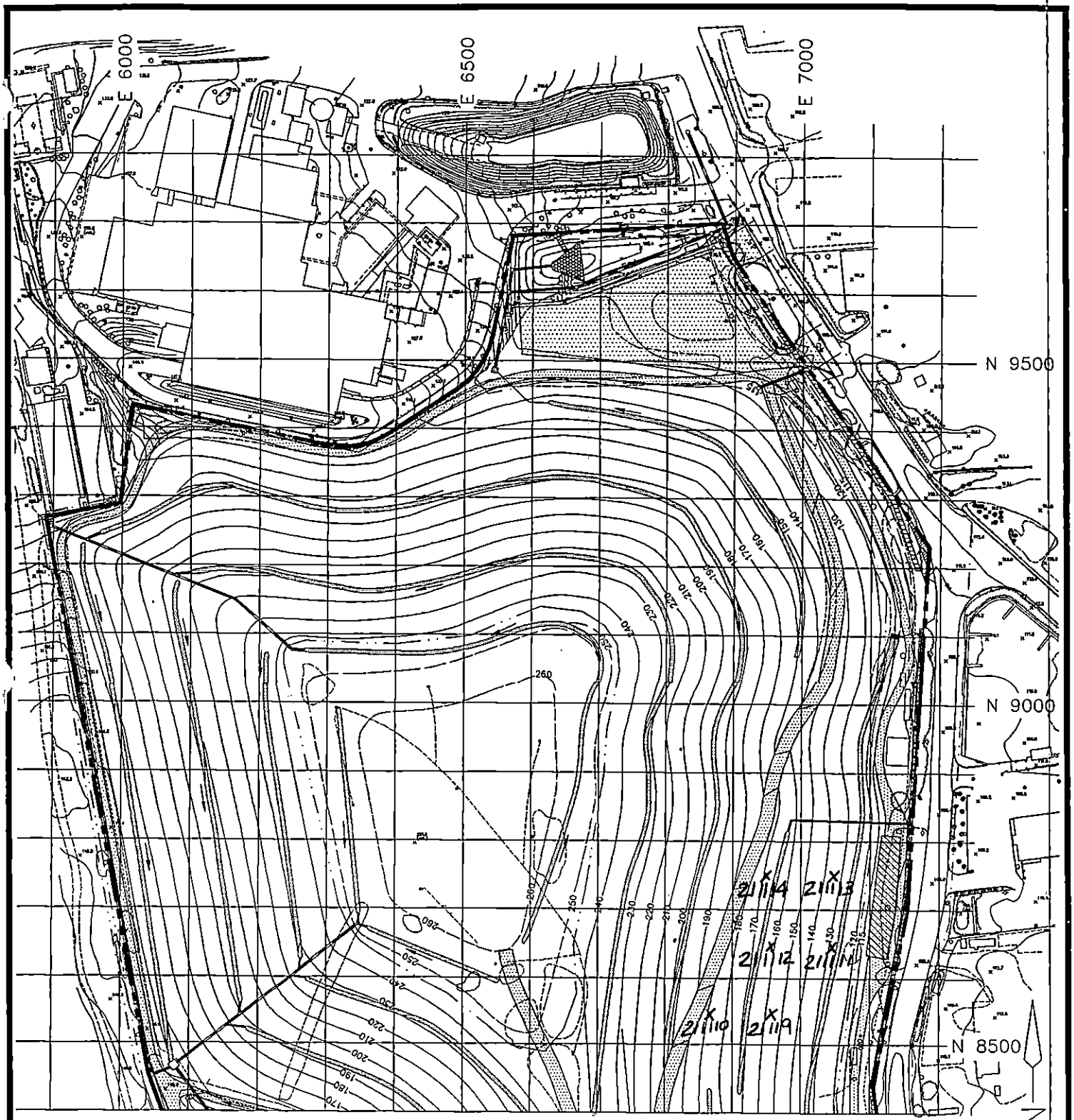
SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED): —

% 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. 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		
211-9	N 8550 E 6950	6/7/1	8.3	128.6	8.7	127.6	117.4	91.3	P			RR
211-10	N 8550 E 6850	6/7/1	8.3	128.6	9.1	127.0	116.4	90.5	P			RR
211-11	N 8650 E 7050	6/8/1	8.3	128.6	9.4	128.2	117.2	91.1	P			RR
211-12	N 8650 E 6950	6/7/1	8.3	128.6	8.9	128.4	117.9	91.7	P			RR
211-13	N 8750 E 7050	6/7/1	8.3	128.6	8.8	126.2	116.0	90.2	P			RR
211-14	N 8750 E 6950	6/8/1	8.3	128.6	9.2	127.3	116.6	90.7	P			RR



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 11 month 95 year

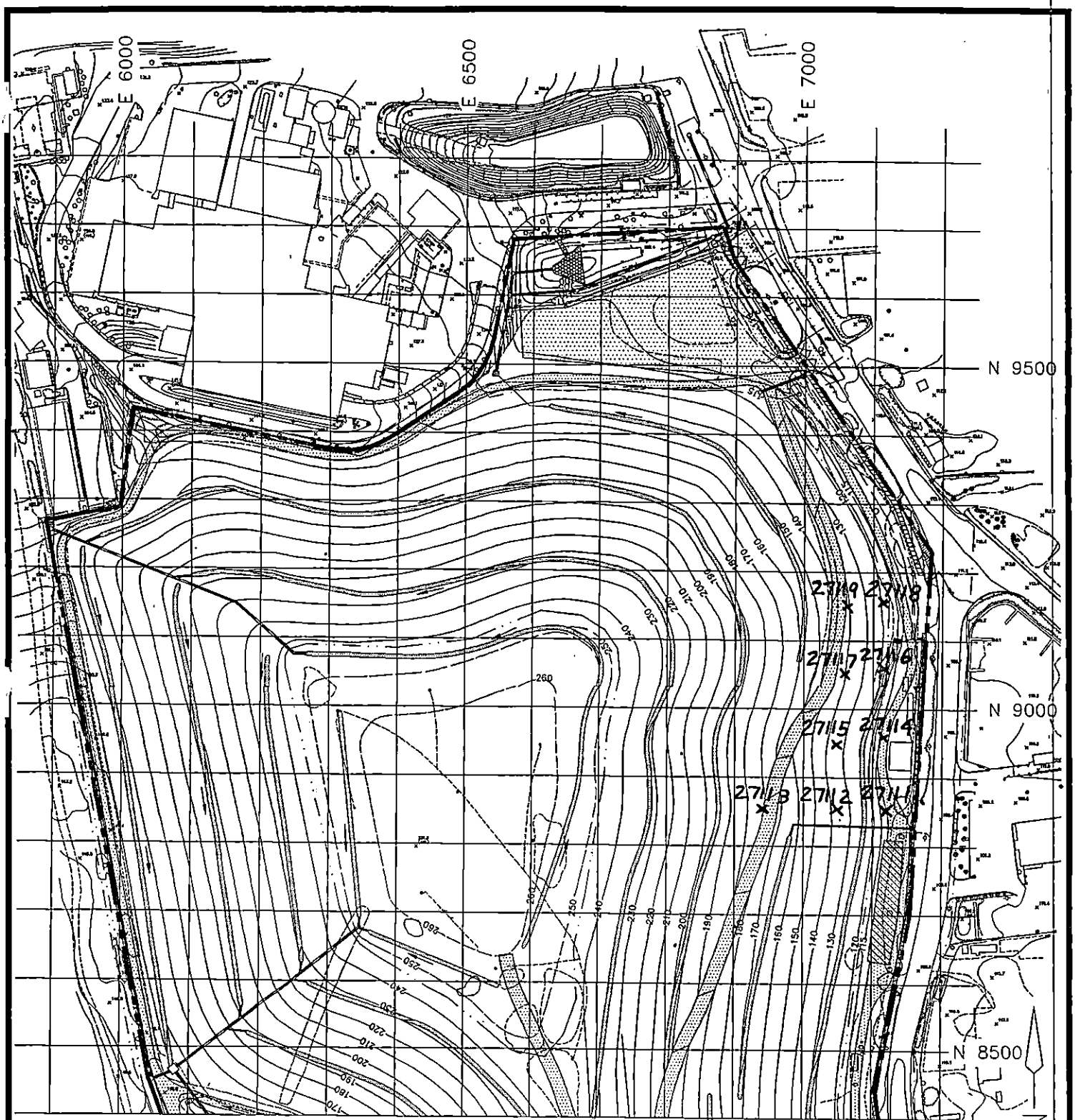
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED)):

% 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		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		
2711-1	N8850 E 7120	6/7/1	8.3	128.6	8.7	129.0	118.7	92.3	P			RC
2711-2	N 8850 E 7050	6/7/1	8.3	128.6	8.9	128.2	117.7	91.5	P			RC
2711-3	N 8850 E 6950	6/6/1	8.3	128.6	9.4	127.3	116.4	90.7	P			RC
2711-4	N 8950 E 7120	6/7/1	8.3	128.6	9.2	126.7	116.0	90.2	P			RC
2711-5	N 8950 E 7050	6/6/1	8.3	128.6	8.6	128.3	118.1	91.8	P			RC
2711-6	N 9050 E 7120	6/7/1	8.3	128.6	9.4	128.3	117.3	91.2	P			RC
2711-7	N 9050 E 7050	6/7/1	8.3	128.6	9.1	127.1	116.5	90.6	P			RC
2711-8	N 9150 E 7120	6/7/1	8.3	128.6	9.5	127.8	116.7	90.9	P			RC
2711-9	N 9150 E 7050	6/7/1	8.3	128.6	9.2	128.0	117.2	91.1	P			RC



TROXLER TEST LOCATION
COMMON 11/27/95 E.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: 1 day 12 month 95 year

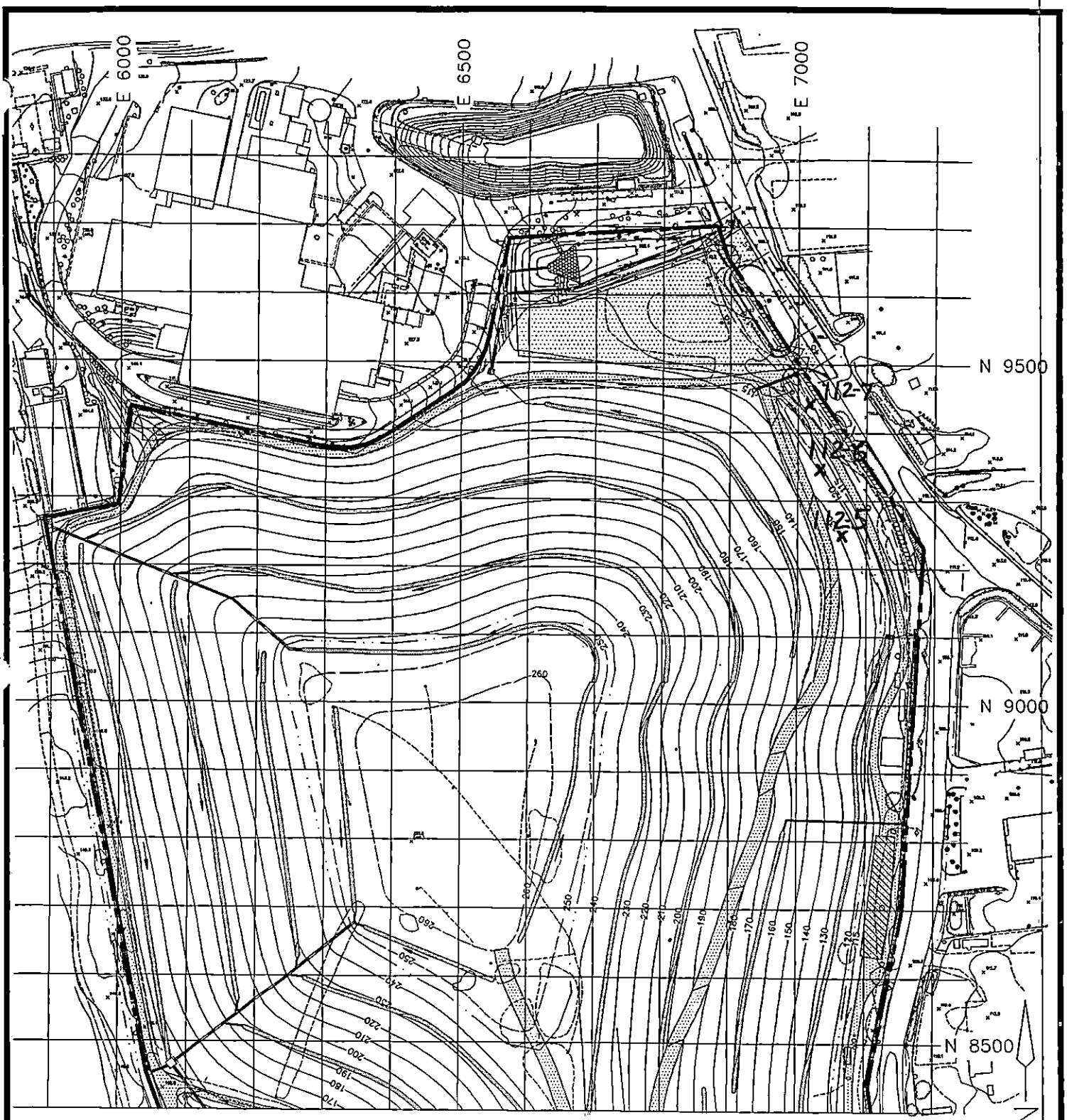
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: COMMON (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED): —

% 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		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		
112-5	N 9250 E 7060	6/7/1	8.3	128.6	8.9	126.2	115.9	90.1	P			RC
112-6	N 9350 E 7020	6/7/1	8.3	128.6	9.4	128.3	117.3	91.2	P			RC
112-7	N 9450 E 7010	6/7/1	8.3	128.6	9.1	126.9	116.3	90.4	P			RC



TROXLER TEST LOCATION
COMMON 12/1/95 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

SUB APPENDIX H–4

DIRECT SHEAR TEST RESULTS

DIRECT SHEAR TEST RESULTS
TASK 02 - GEOTECHNCIAL TESTING
TOWN OF HUNTINGTON/
EAST NORTHPORT LANDFILL
INTERIM REPORT NO. 1

Performed For:

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

Performed By:

J&L Testing Company, Inc.
938 South Central Avenue
Canonsburg, PA 15317

September 27, 1995
Job No.: 94S1790

JLT J&L TESTING COMPANY, INC.
GEOTECHNICAL AND GEOSYNTHETICS MATERIALS TESTING AND RESEARCH

September 27, 1995
Job No.: 94S1790

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

ATTN: Mr. James Gladysz, P.E.

RE: Direct Shear Test Results
TASK 02 - Geotechnical Testing
Town of Huntington/East Northport Landfill
INTERIM REPORT NO. 1

Dear Mr. Gladysz:

We are pleased to submit herein the interim report of geotechnical tests performed on samples from the Town of Huntington/EastNorthport Landfill. Testing included Direct Shear (ASTM D-3080). The samples tested are enclosed in this report. All tests were performed per ASTM protocols listed in your letters and in accordance with JLT's in-house QA/QCprogram.

Should you have any questions or require additional information, please do not hesitate to call.

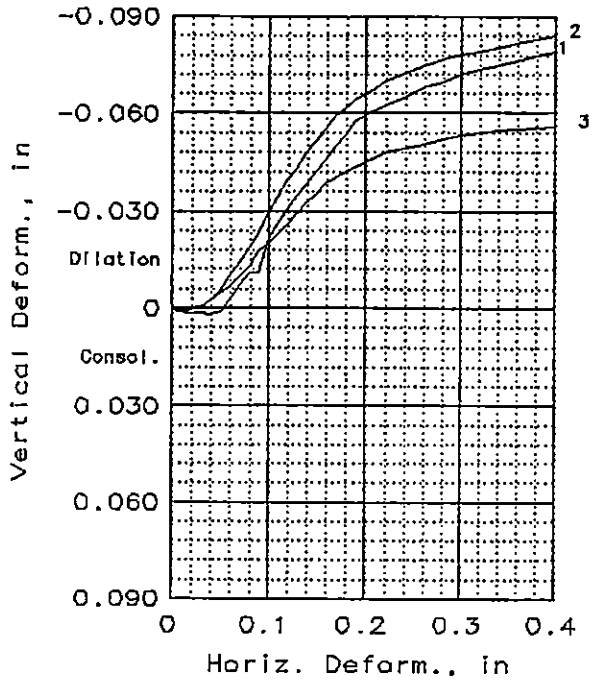
Sincerely,

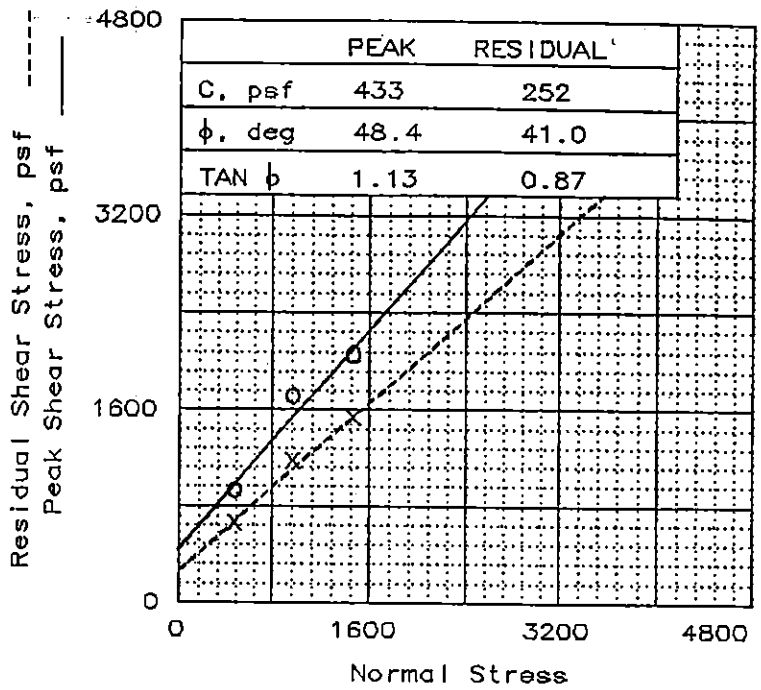
J&L TESTING COMPANY, INC.

Mahiru Shettima, Ph.D., P.E.
Director

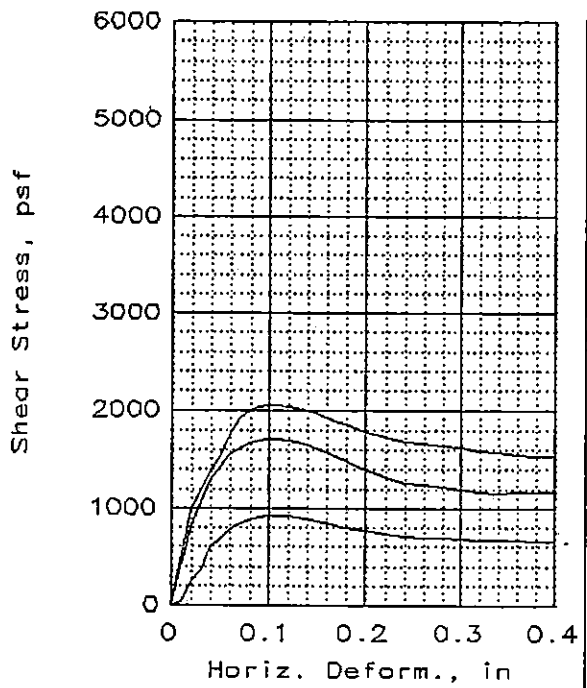
enslosure
(Cash.3)
MS/jlt

938 South Central Avenue • Canonsburg, Pennsylvania 15317 Tel: (412) 746-4441 Fax: (412) 745-4261





	PEAK	RESIDUAL
C, psf	433	252
ϕ, deg	48.4	41.0
TAN ϕ	1.13	0.87



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.1	7.1	7.1
	DRY DENSITY, pcf	118.8	118.8	118.8
	SATURATION, %	48.0	48.0	48.0
	VOID RATIO	0.392	0.392	0.392
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.1	7.1	7.1
	DRY DENSITY, pcf	118.8	118.8	118.8
	SATURATION, %	48.0	48.0	48.0
	VOID RATIO	0.392	0.392	0.392
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		923	1708	2051
RESIDUAL SHEAR, psf		664	1170	1534
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: COMMON FILL

DESCRIPTION: C-6A, COMMON FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080
DIRECT SHEAR TEST
DRY CONDITION

FIG. NO. 3

CLIENT: TOWN OF HUNTINGTON

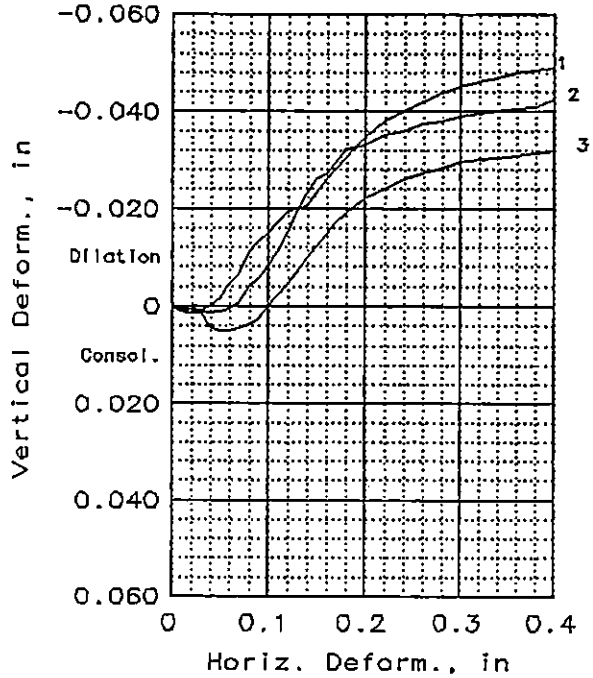
PROJECT: EAST NORTHPORT LANDFILL

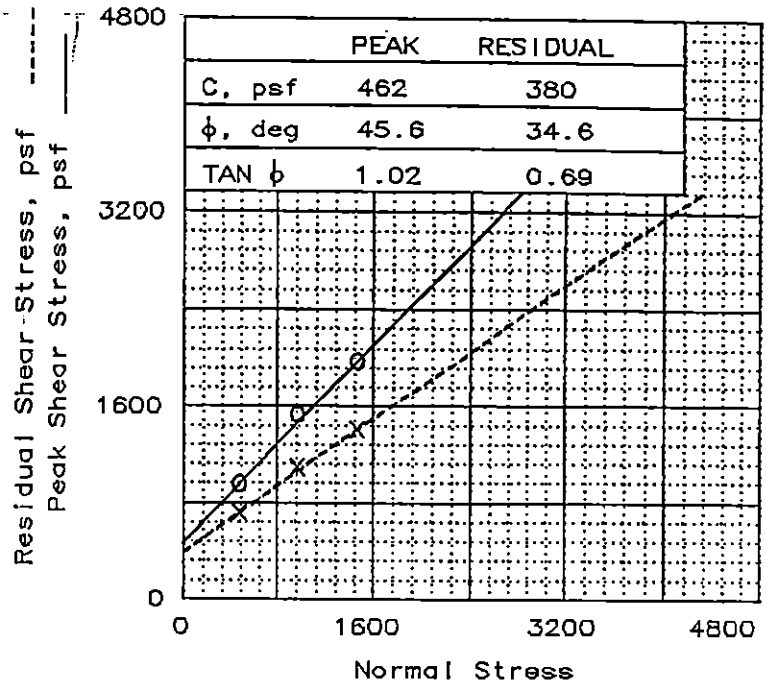
SAMPLE LOCATION:

PROJ. NO.: 94S17401 DATE: 1-29-95

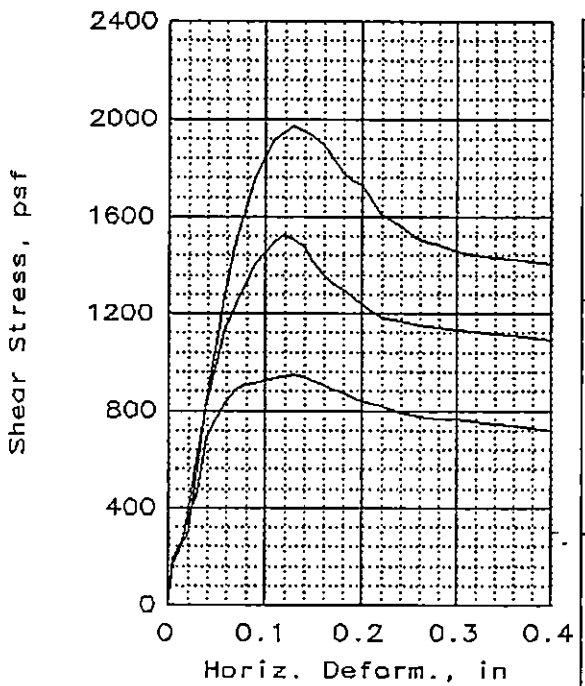
DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.





	PEAK	RESIDUAL
C, psf	462	380
ϕ, deg	45.6	34.6
TAN ϕ	1.02	0.69



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.3	8.3	8.3
	DRY DENSITY, pcf	115.8	115.8	115.8
	SATURATION, %	51.4	51.4	51.4
	VOID RATIO	0.428	0.428	0.428
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.3	8.3	8.3
	DRY DENSITY, pcf	115.8	115.8	115.8
	SATURATION, %	51.4	51.4	51.4
	VOID RATIO	0.428	0.428	0.428
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		950	1526	1970
RESIDUAL SHEAR, psf		717	1089	1407
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: COMMON FILL

DESCRIPTION: C-10, COMMON FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080
DIRECT SHEAR
DRY CONDITION

FIG. NO. 4

CLIENT: TOWN OF HUNTINGTON

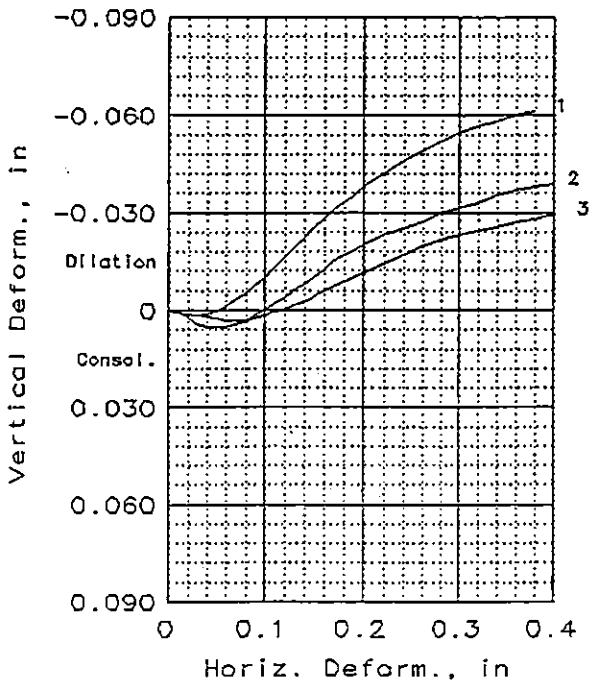
PROJECT: EAST NORTHPORT LANDFILL

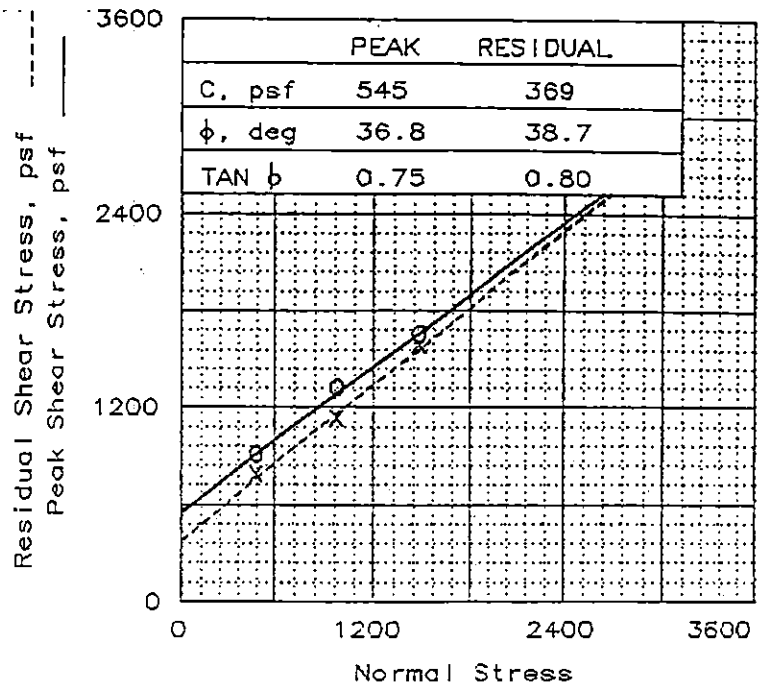
SAMPLE LOCATION:

PROJ. NO.: 94S1749-01 DATE: 1-30-95

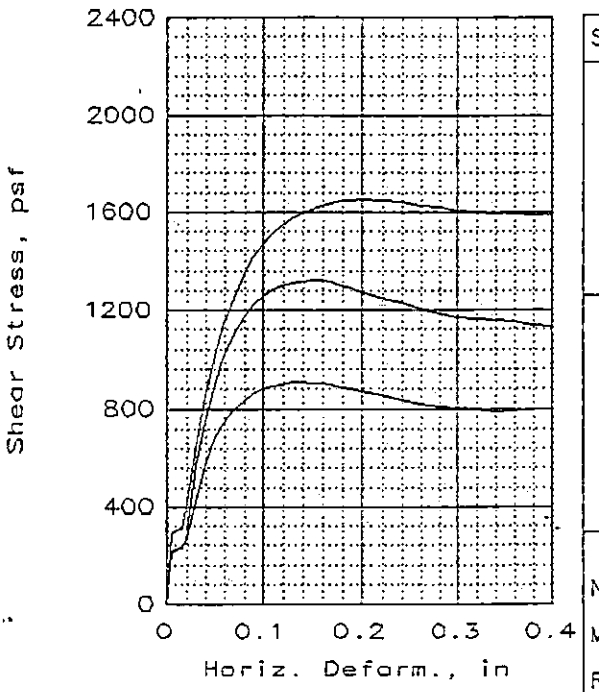
DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.





	PEAK	RESIDUAL
C, psf	545	369
ϕ, deg	36.8	38.7
TAN ϕ	0.75	0.80



	SAMPLE NO.	1	2	3
INITIAL	WATER CONTENT, %	8.2	8.2	8.2
	DRY DENSITY, pcf	113.2	113.2	113.2
	SATURATION, %	47.1	47.1	47.1
	VOID RATIO	0.461	0.461	0.461
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.2	8.2	8.2
	DRY DENSITY, pcf	113.2	113.2	113.2
	SATURATION, %	47.1	47.1	47.1
	VOID RATIO	0.461	0.461	0.461
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		906	1319	1653
RESIDUAL SHEAR, psf		787	1134	1587
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: COMMON FILL

DESCRIPTION: C-11 COMMON FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080
DIRECT SHEAR
DRY CONDITION

FIG. NO. 6

CLIENT: TOWN OF HUNTINGTON

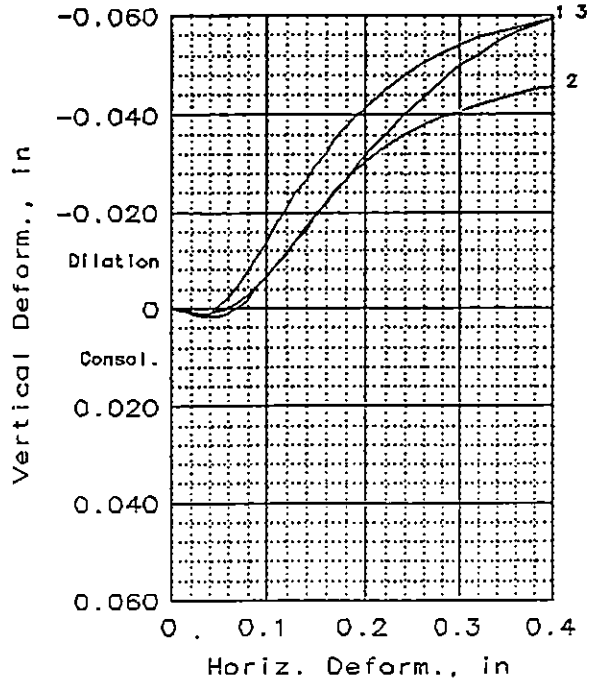
PROJECT: EAST NORTHPORT LANDFILL

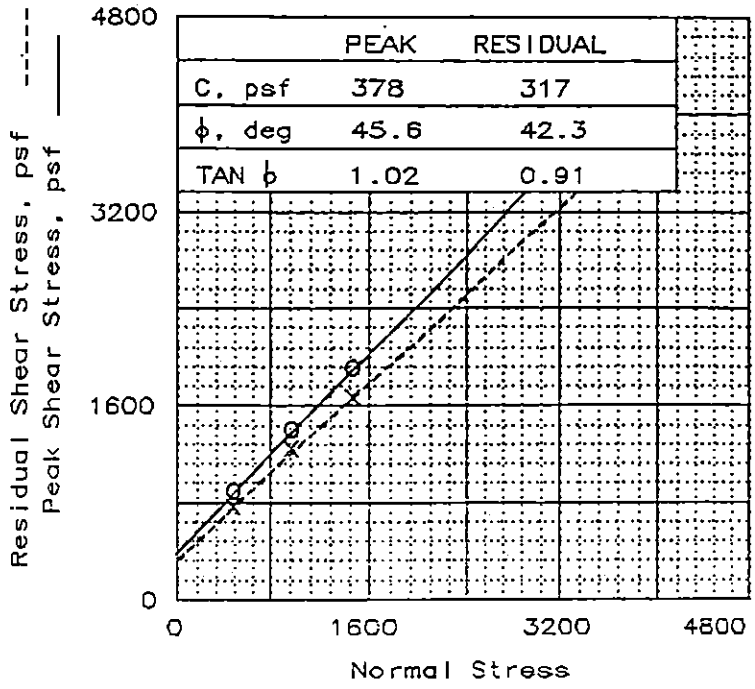
SAMPLE LOCATION: E. NORTHPORT LANDFILL

PROJ. NO.: 94S1749-01 DATE: 2-16-95

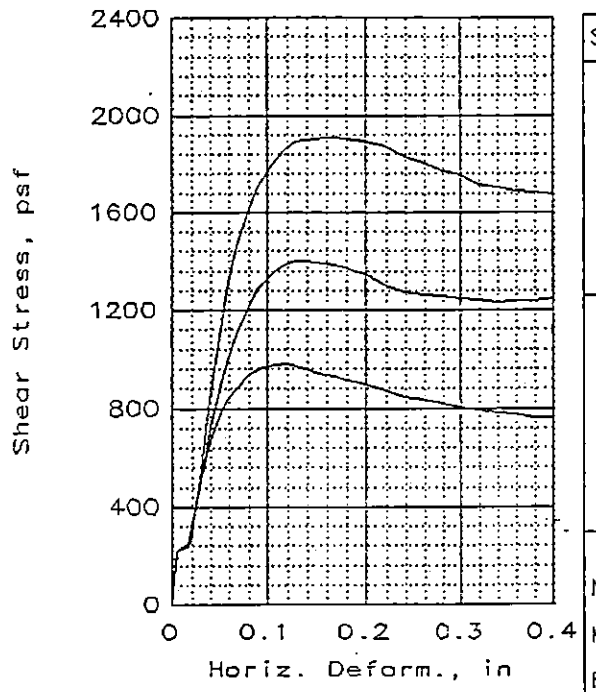
DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.





	PEAK	RESIDUAL
C, psf	378	317
ϕ, deg	45.6	42.3
TAN ϕ	1.02	0.91



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.2	8.2	8.2
	DRY DENSITY, pcf	115.7	115.7	115.7
	SATURATION, %	50.5	50.5	50.5
	VOID RATIO	0.430	0.430	0.430
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.2	8.2	8.2
	DRY DENSITY, pcf	115.7	115.7	115.7
	SATURATION, %	50.5	50.5	50.5
	VOID RATIO	0.430	0.430	0.430
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		888	1398	1908
RESIDUAL SHEAR, psf		761	1249	1671
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: COMMON FILL

DESCRIPTION: C-12 COMMON FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080
DIRECT SHEAR
DRY CONDITION

FIG. NO. 5

CLIENT: TOWN OF HUNTINGTON

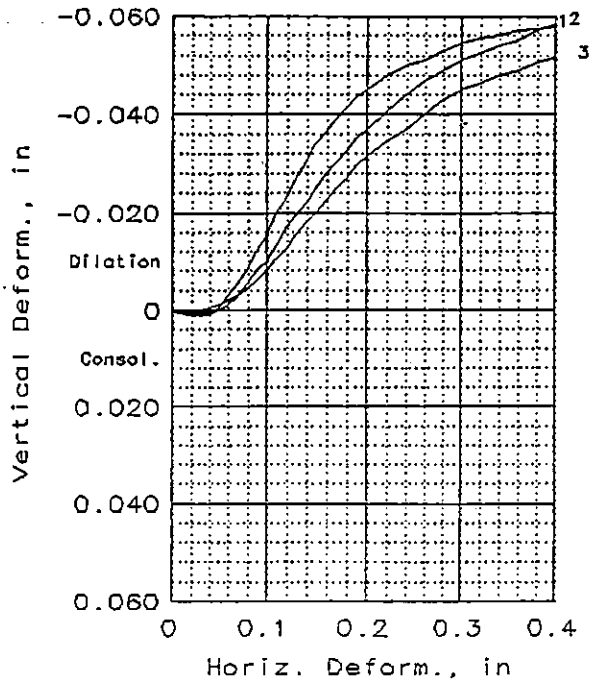
PROJECT: EAST NORTHPORT LANDFILL

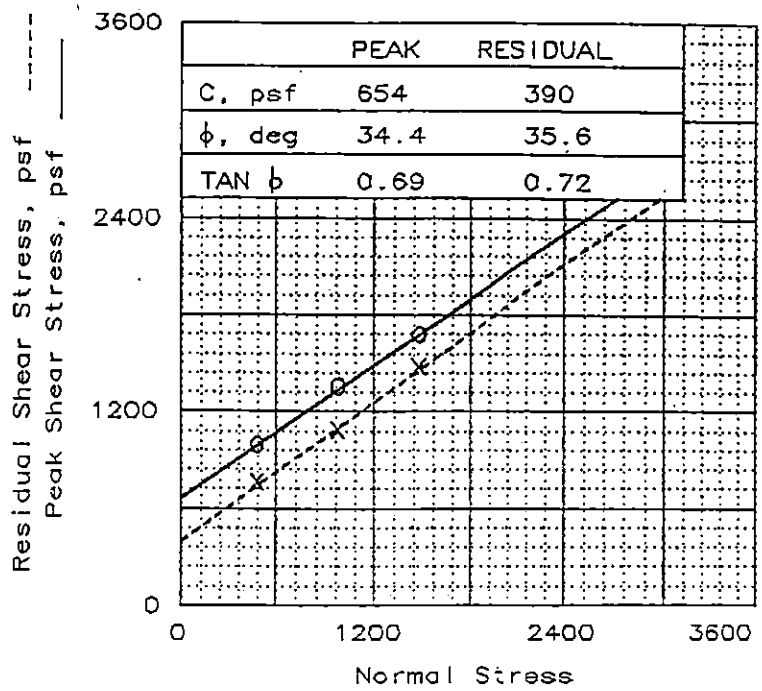
SAMPLE LOCATION:

PROJ. NO.: 94S1749-01 DATE: 2-16-95

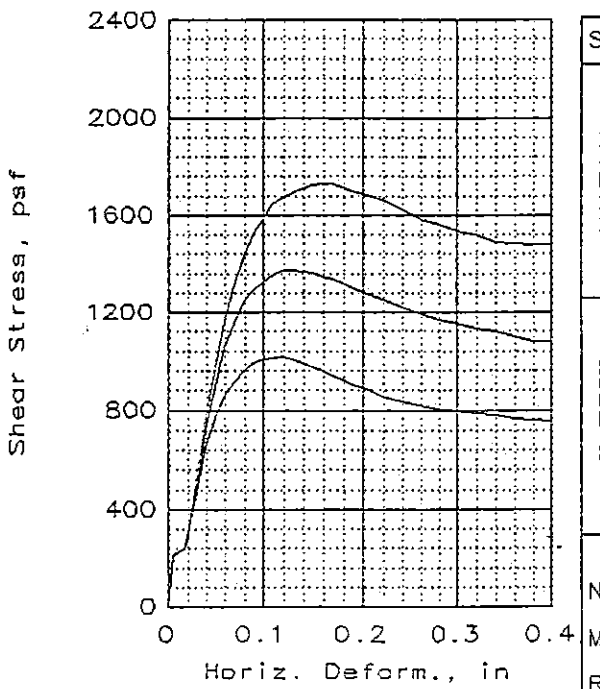
DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.





	PEAK	RESIDUAL
C, psf	654	390
ϕ, deg	34.4	35.6
TAN ϕ	0.69	0.72



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.4	7.4	7.4
	DRY DENSITY, pcf	115.7	115.7	115.7
	SATURATION, %	45.6	45.6	45.6
	VOID RATIO	0.430	0.430	0.430
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.4	7.4	7.4
	DRY DENSITY, pcf	115.7	115.7	115.7
	SATURATION, %	45.6	45.6	45.6
	VOID RATIO	0.430	0.430	0.430
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		989	1354	1675
RESIDUAL SHEAR, psf		761	1082	1477
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: COMMON FILL

DESCRIPTION: C-13 COMMON FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080
DIRECT SHEAR TEST
DRY CONDITION

FIG. NO. 5

CLIENT: TOWN OF HUNTINGTON

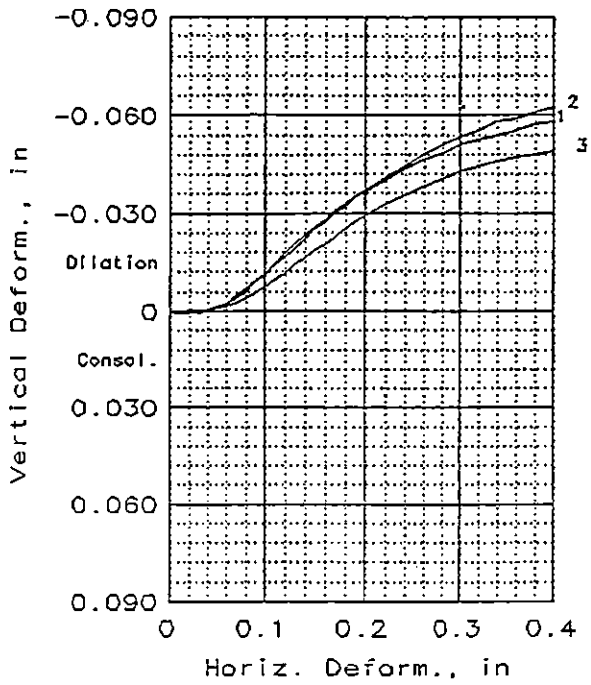
PROJECT: EAST NORTHPORT LANDFILL

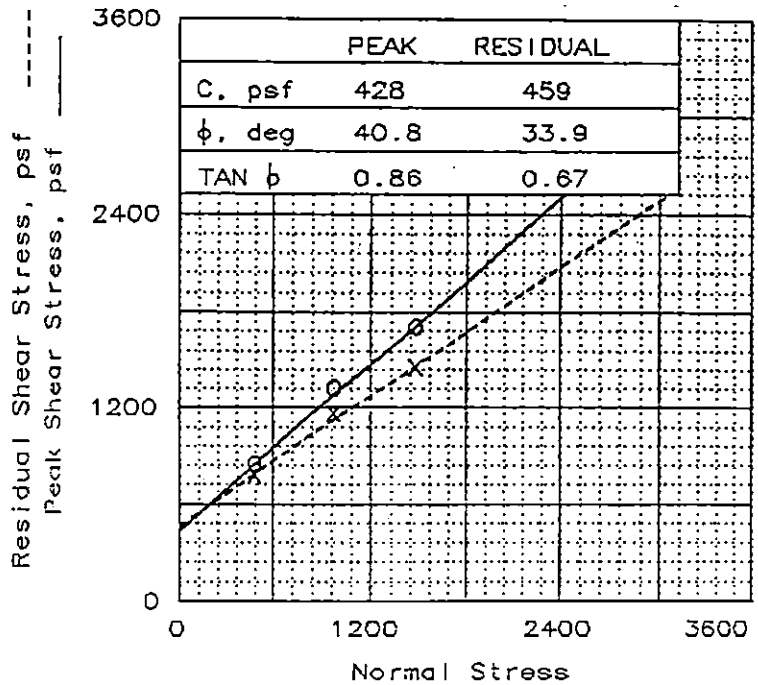
SAMPLE LOCATION:

PROJ. NO.: 94S1749-01 DATE: 2-20-95

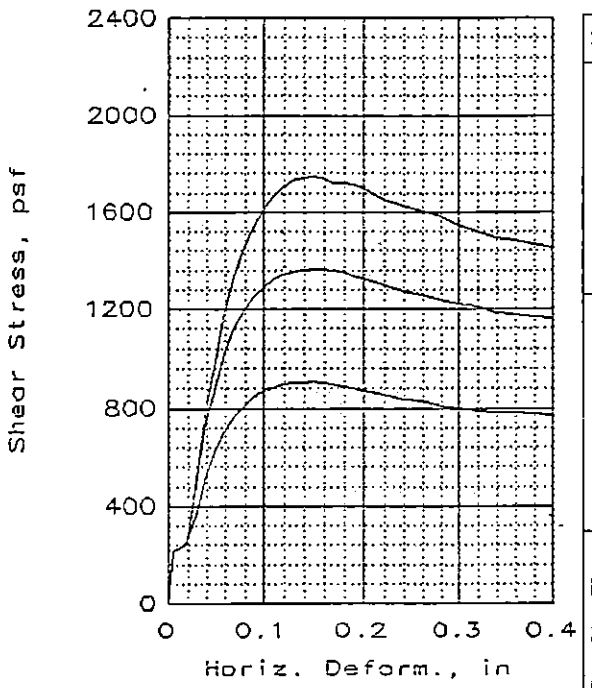
DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.





	PEAK	RESIDUAL
C, psf	428	459
ϕ, deg	40.8	33.9
TAN ϕ	0.86	0.67



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.4	8.4	8.4
	DRY DENSITY, pcf	114.9	114.9	114.9
	SATURATION, %	50.7	50.7	50.7
	VOID RATIO	0.439	0.439	0.439
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.4	8.4	8.4
	DRY DENSITY, pcf	114.9	114.9	114.9
	SATURATION, %	50.7	50.7	50.7
	VOID RATIO	0.439	0.439	0.439
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		844	1319	1706
RESIDUAL SHEAR, psf		778	1165	1451
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: COMMON FILL

DESCRIPTION: C-14 COMMON FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080
DIRECT SHEAR TEST
DRY CONDITION

FIG. NO. 5

CLIENT: TOWN OF HUNTINGTON

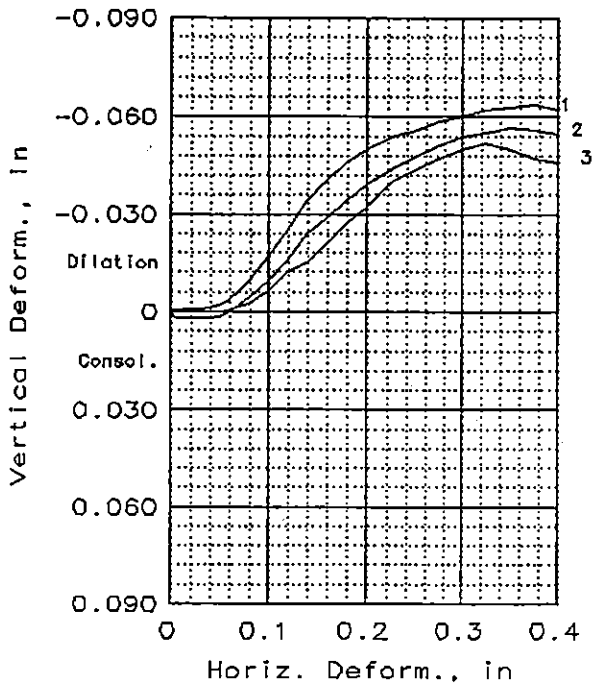
PROJECT: EAST NORTHPORT LANDFILL

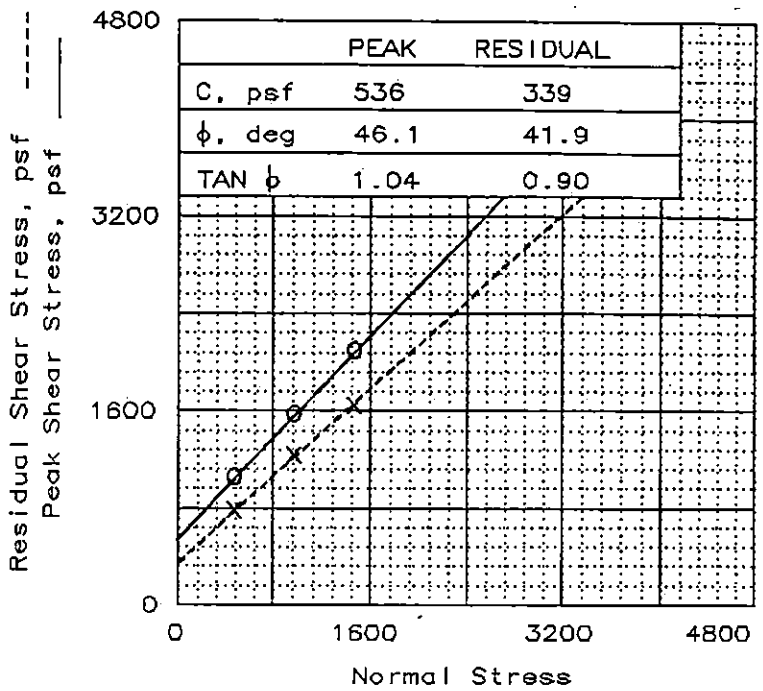
SAMPLE LOCATION:

PROJ. NO.: 94S1749-01 DATE: 2-20-95

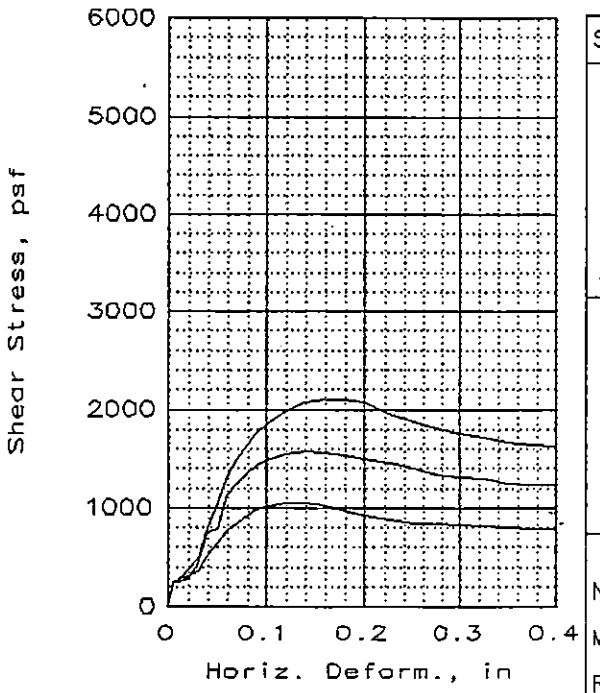
DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.





	PEAK	RESIDUAL
C, psf	536	339
ϕ, deg	46.1	41.9
TAN ϕ	1.04	0.90



SAMPLE NO.		1.	2	3
INITIAL	WATER CONTENT, %	8.0	8.0	8.0
	DRY DENSITY, pcf	116.3	116.3	116.3
	SATURATION, %	50.2	50.2	50.2
	VOID RATIO	0.423	0.423	0.423
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.0	8.0	8.0
	DRY DENSITY, pcf	116.3	116.3	116.3
	SATURATION, %	50.2	50.2	50.2
	VOID RATIO	0.423	0.423	0.423
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		1055	1574	2093
RESIDUAL SHEAR, psf		787	1235	1644
Strain rate, %/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: COMMON FILL

DESCRIPTION: C-15 COMMON FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080
DIRECT SHEAR TEST
90% MODIFIED @OPT MOISTURE

FIG. NO.

CLIENT: CASHIN

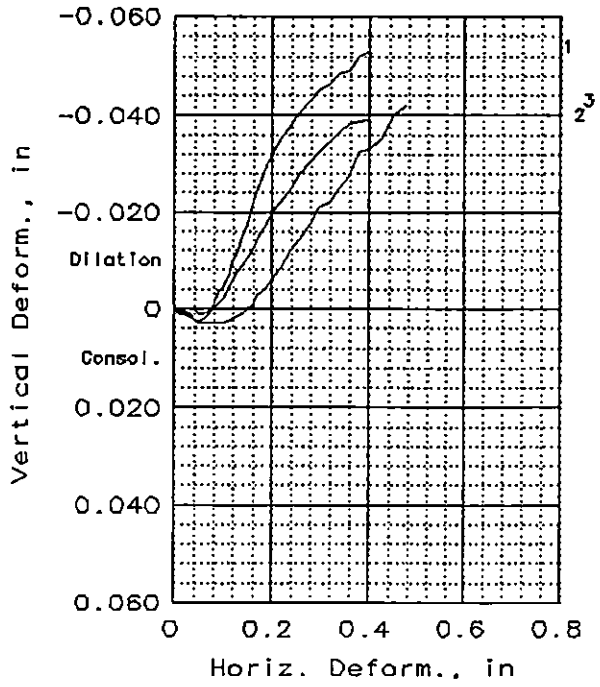
PROJECT: EAST NORTHPORT LANDFILL

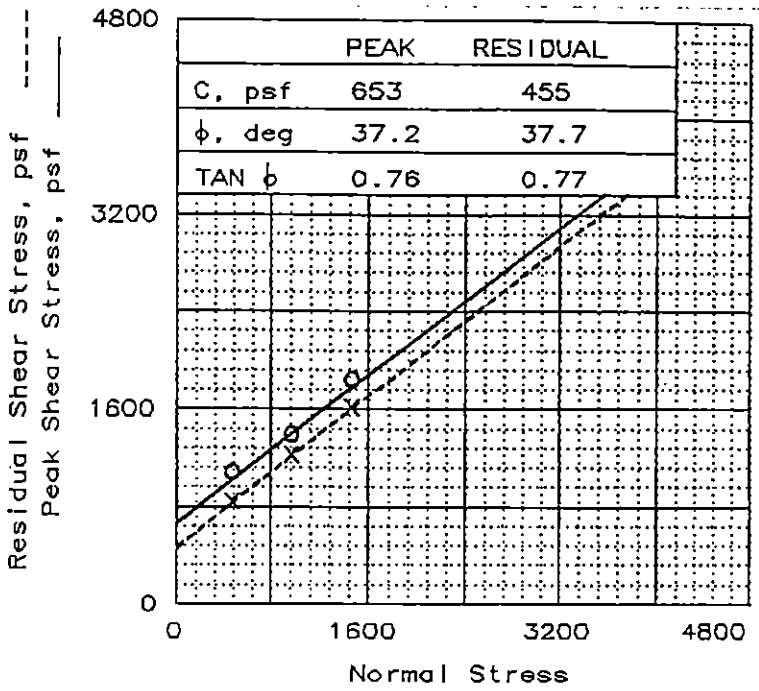
SAMPLE LOCATION: TOWN OF HUNTINGTON

PROJ. NO.: 94S1749-01 DATE: 3-2-95

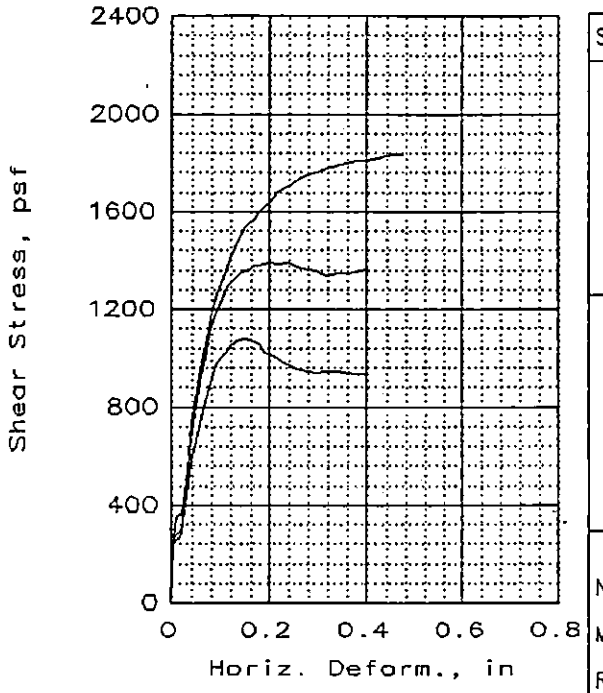
DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.





	PEAK	RESIDUAL
C, psf	653	455
ϕ, deg	37.2	37.7
TAN ϕ	0.76	0.77



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	9.0	9.0	9.0
	DRY DENSITY, pcf	110.8	110.8	110.8
	SATURATION, %	48.4	48.4	48.4
	VOID RATIO	0.493	0.493	0.493
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	9.0	9.0	9.0
	DRY DENSITY, pcf	110.8	110.8	110.8
	SATURATION, %	48.4	48.4	48.4
	VOID RATIO	0.493	0.493	0.493
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		1078	1389	1836
RESIDUAL SHEAR, psf		844	1226	1518
Strain rate, %/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: COMMON FILL

DESCRIPTION: C-16 COMMOON FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: DIRECT SHER TEST
ASTM-D3080
90% MODIFIED @OPT MOISTURE

FIG. NO.

CLIENT: CASHIN

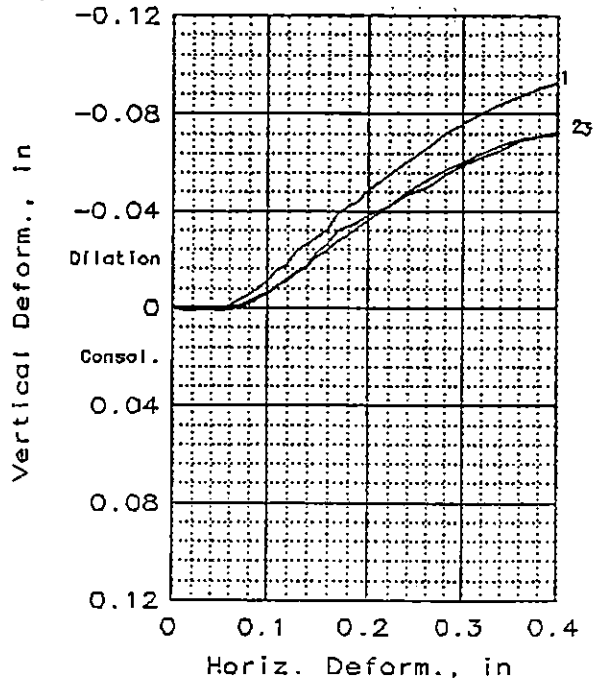
PROJECT: EAST NORTHPORT LANDFILL

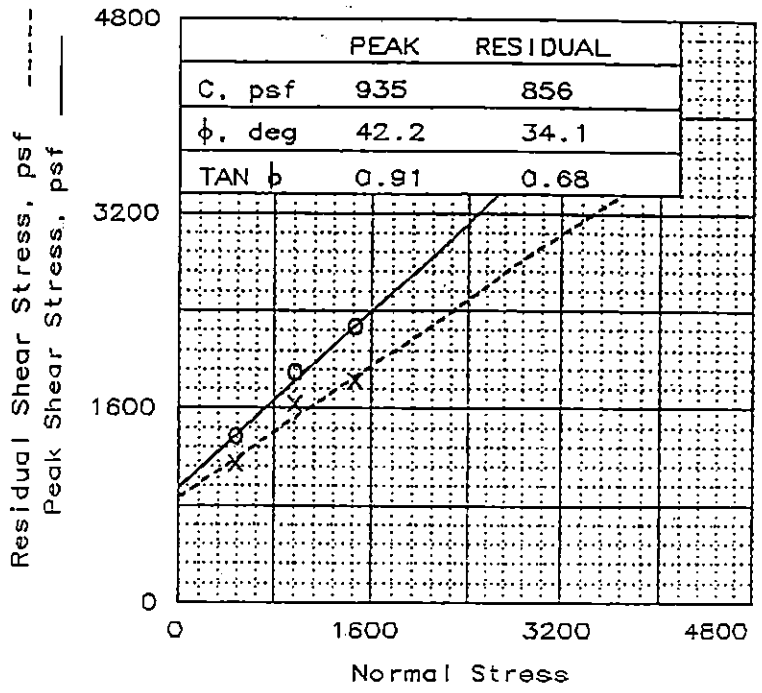
SAMPLE LOCATION: TOWN OF HUNTINGTON

PROJ. NO.: 94S1749-01 DATE: 3-2-95

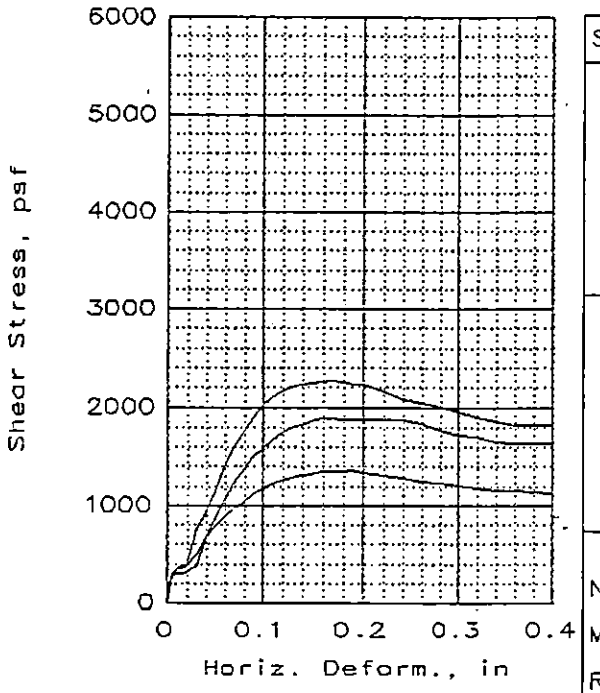
DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.





	PEAK	RESIDUAL
C, psf	935	856
ϕ, deg	42.2	34.1
TAN ϕ	0.91	0.68



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.7	8.7	8.7
	DRY DENSITY, pcf	117.2	117.2	117.2
	SATURATION, %	56.1	56.1	56.1
	VOID RATIO	0.411	0.411	0.411
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.7	8.7	8.7
	DRY DENSITY, pcf	117.2	117.2	117.2
	SATURATION, %	56.1	56.1	56.1
	VOID RATIO	0.411	0.411	0.411
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		1363	1890	2269
RESIDUAL SHEAR, psf		1143	1635	1820
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: COMMON FILL

DESCRIPTION: C-17 COMMON FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080
DIRECT SHEAR TEST
90% MODIFIED @OPT MOISTURE

FIG. NO. #17

CLIENT: TOWN OF HUNTINGTON

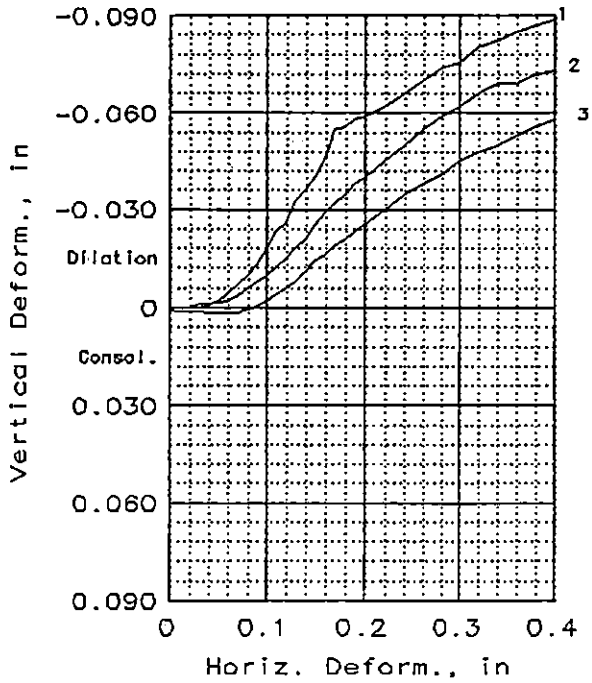
PROJECT: EAST NORTHPORT LANDFILL

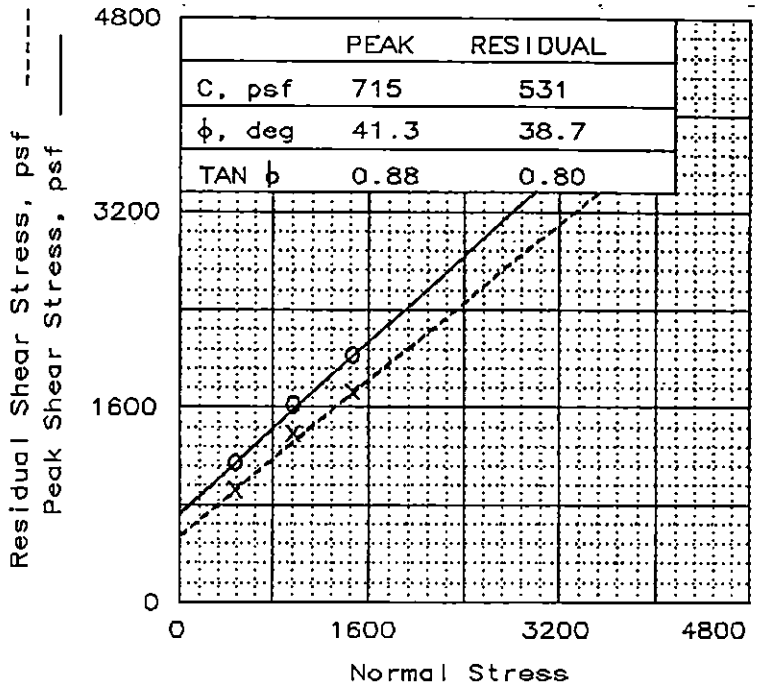
SAMPLE LOCATION: E. NORTHPORT LANDFILL

PROJ. NO.: 94S1749-01 DATE: 3-13-95

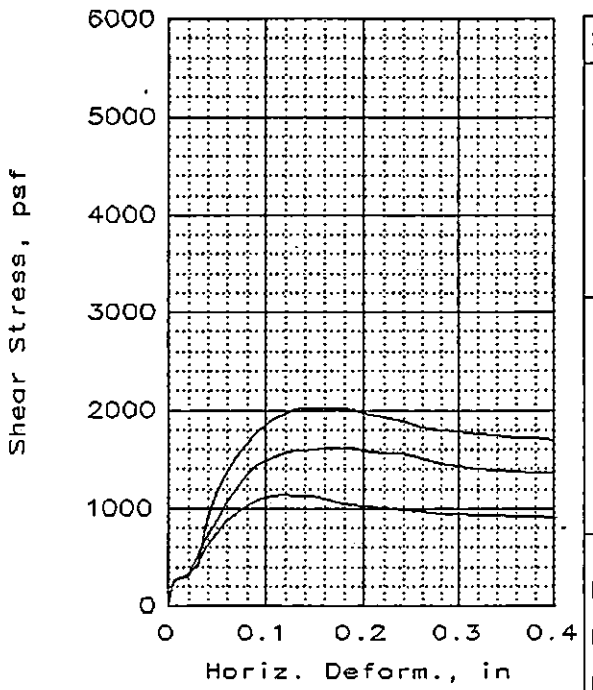
DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.





	PEAK	RESIDUAL
C, psf	715	531
ϕ, deg	41.3	38.7
TAN ϕ	0.88	0.80



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.2	8.2	8.2
	DRY DENSITY, pcf	115.6	115.6	115.6
	SATURATION, %	50.4	50.4	50.4
	VOID RATIO	0.432	0.432	0.432
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.2	8.2	8.2
	DRY DENSITY, pcf	115.6	115.6	115.6
	SATURATION, %	50.4	50.4	50.4
	VOID RATIO	0.432	0.432	0.432
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		1143	1618	2022
RESIDUAL SHEAR, psf		923	1381	1723
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: COMMON FILL

DESCRIPTION: C-18 COMMON FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080
DIRECT SHEAR TEST
90% MODIFIED @OPT MOISTURE

FIG. NO. #18

CLIENT: TOWN OF HUNTINGTON

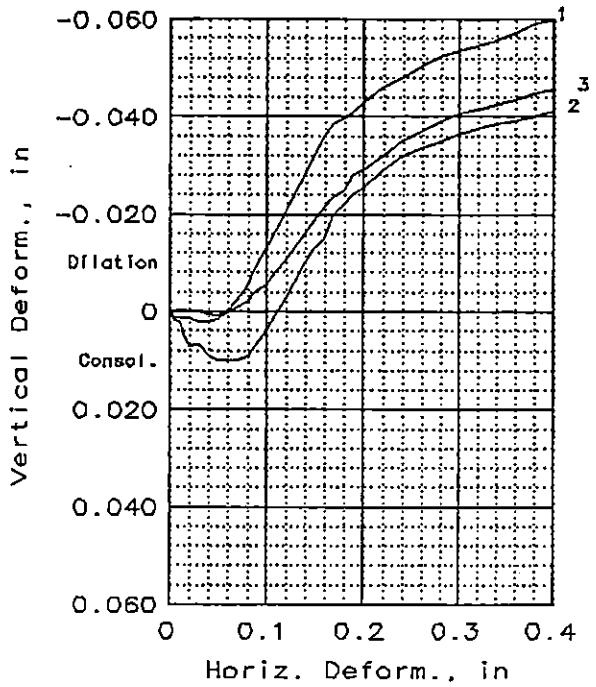
PROJECT: EAST NORTHPORT LANDFILL

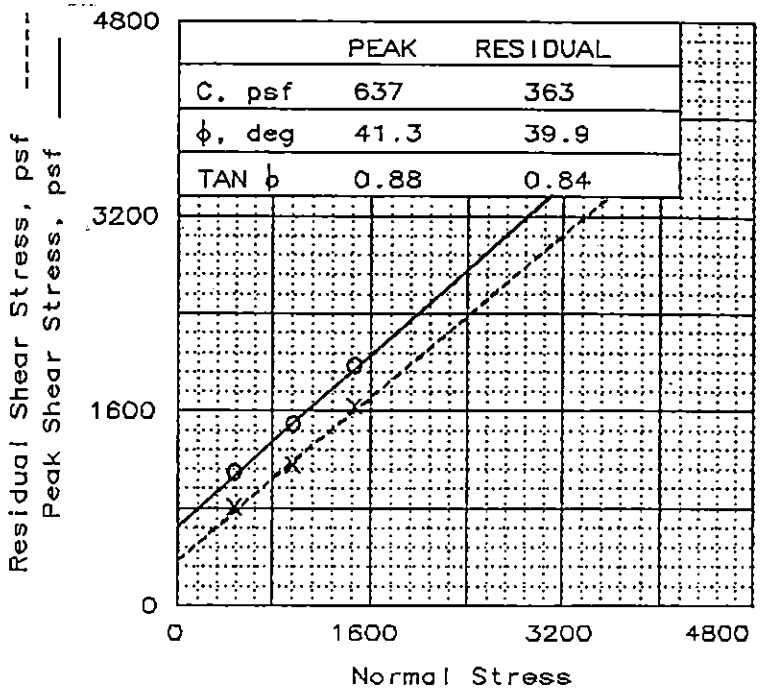
SAMPLE LOCATION: E. NORTHPORT LANDFILL

PROJ. NO.: 94S1749-01 DATE: 3-13-95

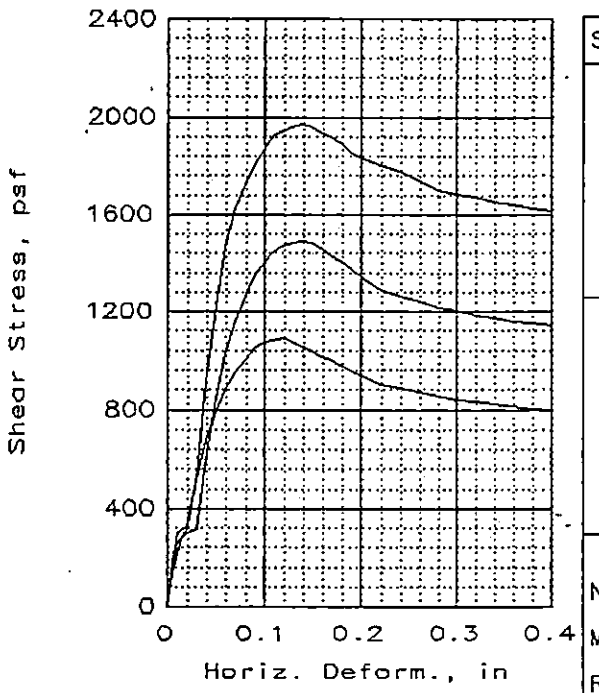
DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.





	PEAK	RESIDUAL
C, psf	637	363
ϕ, deg	41.3	39.9
TAN ϕ	0.88	0.84



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	115.9	115.9	115.9
	SATURATION, %	47.8	47.8	47.8
	VOID RATIO	0.427	0.427	0.427
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	115.9	115.9	115.9
	SATURATION, %	47.8	47.8	47.8
	VOID RATIO	0.427	0.427	0.427
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		1090	1488	1970
RESIDUAL SHEAR, psf		805	1152	1640
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: COMMON FILL

DESCRIPTION: C-19 COMMON FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080
DIRECT SHEAR TEST
90% MODIFIED @OPT MOISTURE

FIG. NO. #19

CLIENT: TOWN OF HUNTINGTON

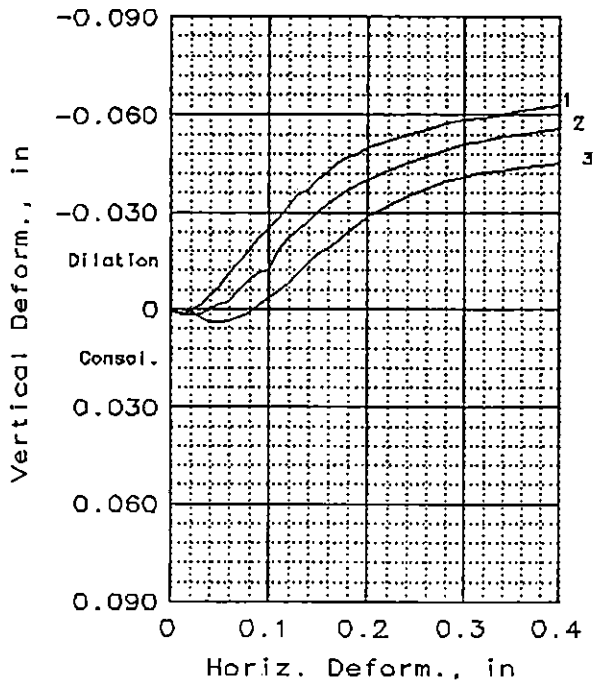
PROJECT: EAST NORTHPORT LANDFILL

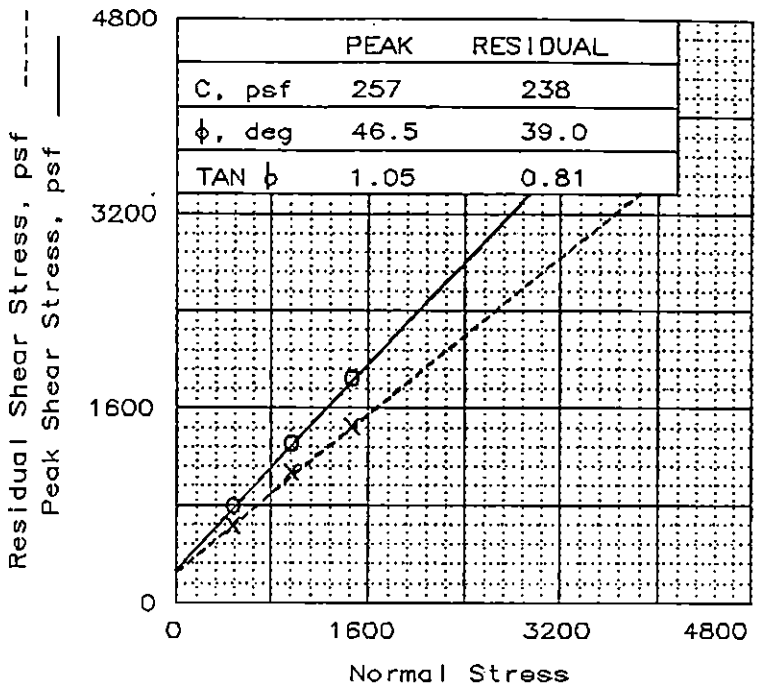
SAMPLE LOCATION: E. NORTHPORT LANDFILL

PROJ. NO.: 94S1749-01 DATE: 3-13-95

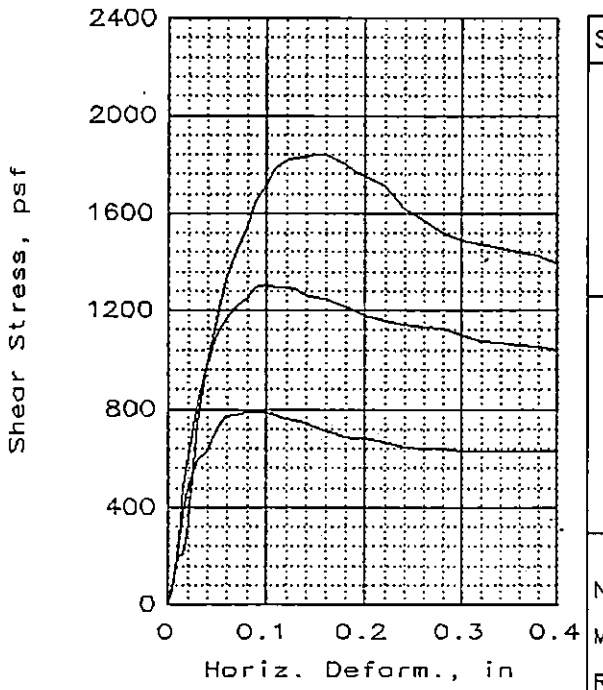
DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.





	PEAK	RESIDUAL
C, psf	257	238
ϕ, deg	46.5	39.0
TAN ϕ	1.05	0.81



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.2	8.2	8.2
	DRY DENSITY, pcf	118.0	118.0	118.0
	SATURATION, %	54.0	54.0	54.0
	VOID RATIO	0.402	0.402	0.402
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.2	8.2	8.2
	DRY DENSITY, pcf	118.0	118.0	118.0
	SATURATION, %	54.0	54.0	54.0
	VOID RATIO	0.402	0.402	0.402
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		786	1304	1839
RESIDUAL SHEAR, psf		632	1069	1442
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: COMMON FILL

DESCRIPTION: C-20 COMMON FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080
DIRECT SHEAR TEST
90% MODIFIED @OPT MOISTURE

FIG. NO. #20

CLIENT: TOWN OF HUNTINGTON

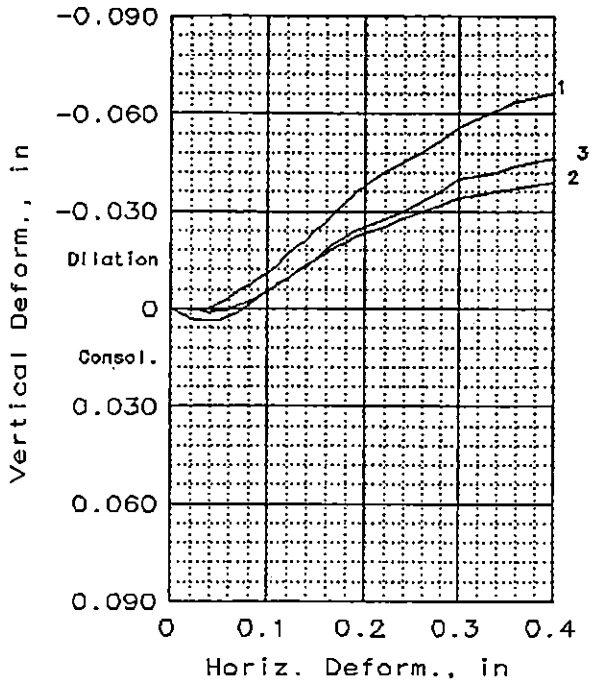
PROJECT: EAST NORTHPORT LANDFILL

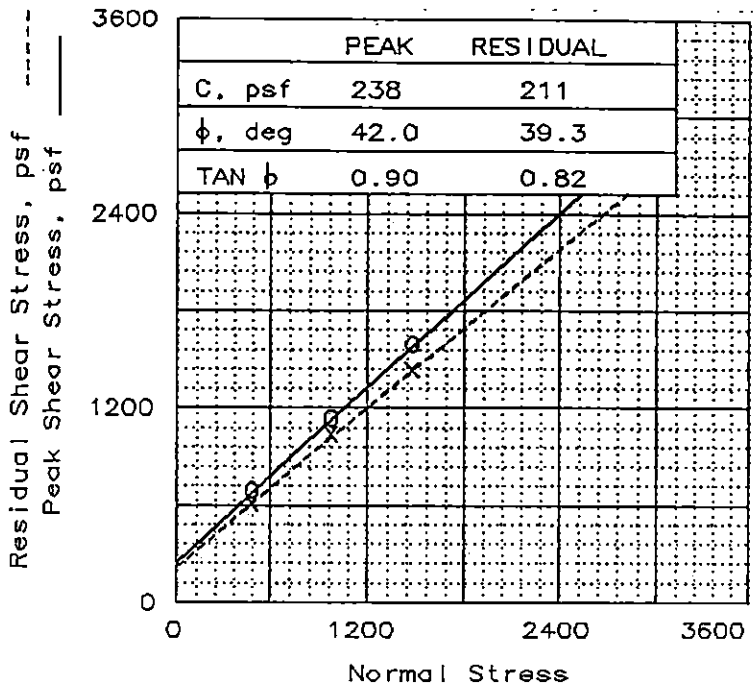
SAMPLE LOCATION: E. NORTHPORT LANDFILL

PROJ. NO.: 94S1749-01 DATE: 3-27-95

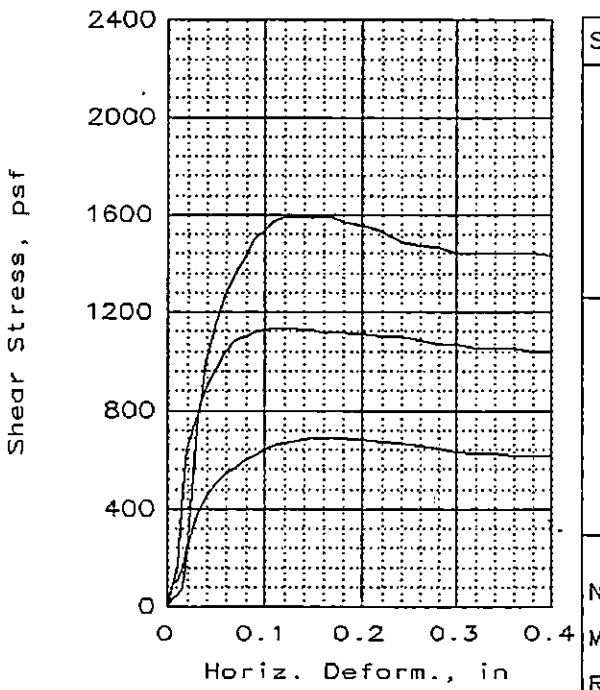
DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.





	PEAK	RESIDUAL
C, psf	238	211
ϕ, deg	42.0	39.3
TAN ϕ	0.90	0.82



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.6	8.6	8.6
	DRY DENSITY, pcf	111.6	111.6	111.6
	SATURATION, %	47.2	47.2	47.2
	VOID RATIO	0.483	0.483	0.483
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.6	8.6	8.6
	DRY DENSITY, pcf	111.6	111.6	111.6
	SATURATION, %	47.2	47.2	47.2
	VOID RATIO	0.483	0.483	0.483
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		689	1134	1588
RESIDUAL SHEAR, psf		616	1037	1434
Strain rate, in/min		0.010	0.010	1.000

SAMPLE DATA

SAMPLE TYPE:

DESCRIPTION: C-23

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080
DIRECT SHEAR TEST
DRY CONDITION

FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

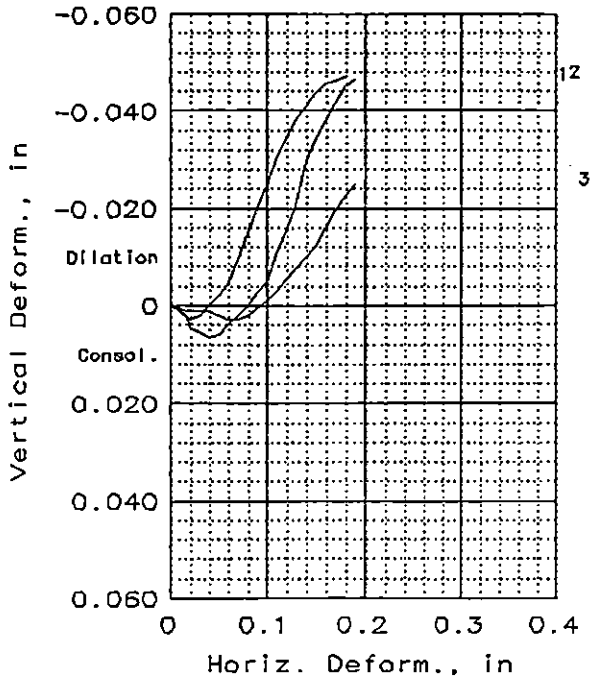
PROJECT: EAST NORTHPORT LANDFILL

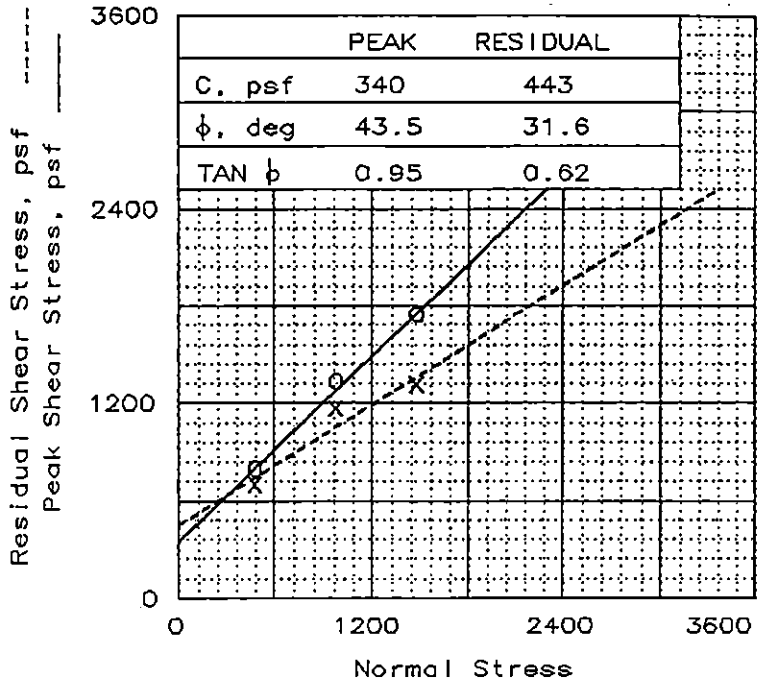
SAMPLE LOCATION:

PROJ. NO.: 94S1749-01 DATE: 4-19-95

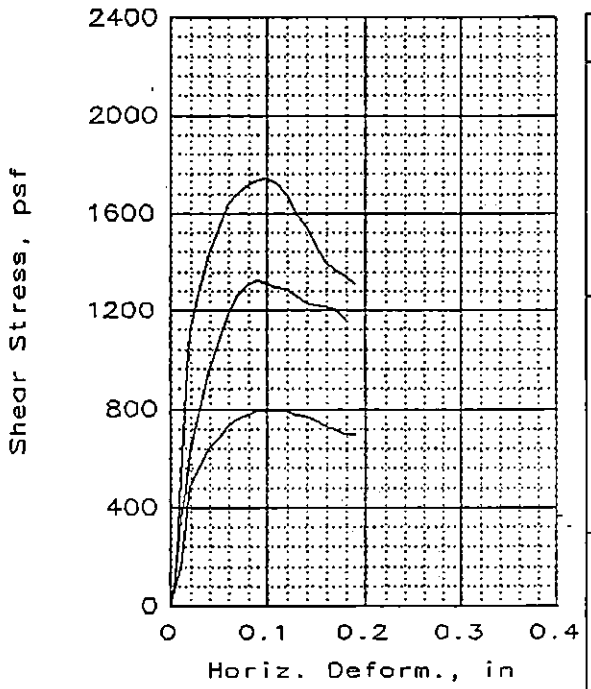
DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.





	PEAK	RESIDUAL
C, psf	340	443
ϕ, deg	43.5	31.6
TAN ϕ	0.95	0.62



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.9	8.9	8.9
	DRY DENSITY, pcf	112.4	112.4	112.4
	SATURATION, %	50.0	50.0	50.0
	VOID RATIO	0.472	0.472	0.472
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.9	8.9	8.9
	DRY DENSITY, pcf	112.4	112.4	112.4
	SATURATION, %	50.0	50.0	50.0
	VOID RATIO	0.472	0.472	0.472
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		794	1328	1742
RESIDUAL SHEAR, psf		697	1166	1312
Strain rate, in/min		0.010	0.010	1.000

SAMPLE DATA

SAMPLE TYPE:

DESCRIPTION: C-24

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080
DIRECT SHEAR TEST
DRY CONDITION

FIG. NO. 24

CLIENT: TOWN OF HUNTINGTON

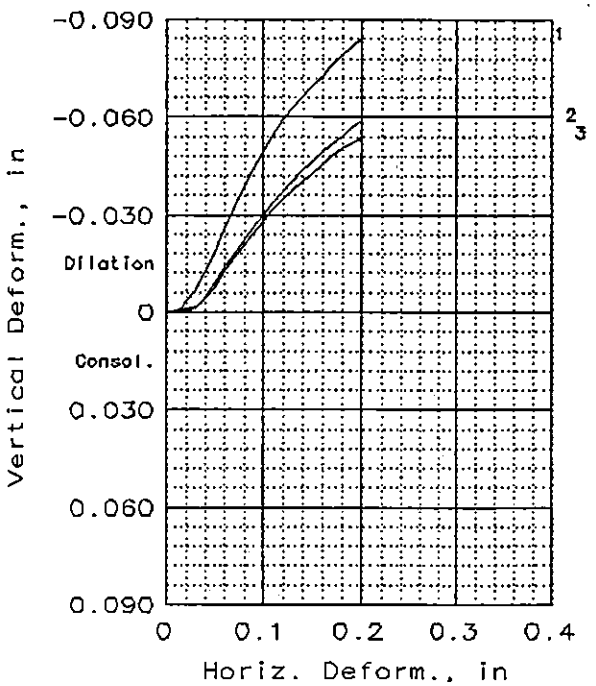
PROJECT: EAST NORTHPORT LANDFILL

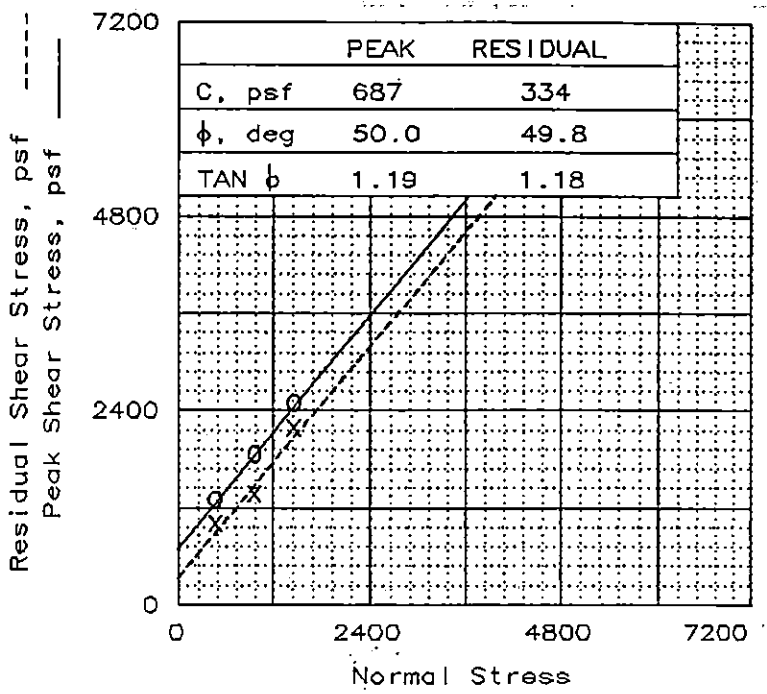
SAMPLE LOCATION:

PROJ. NO.: 94S1749-01 DATE: 4-27-95

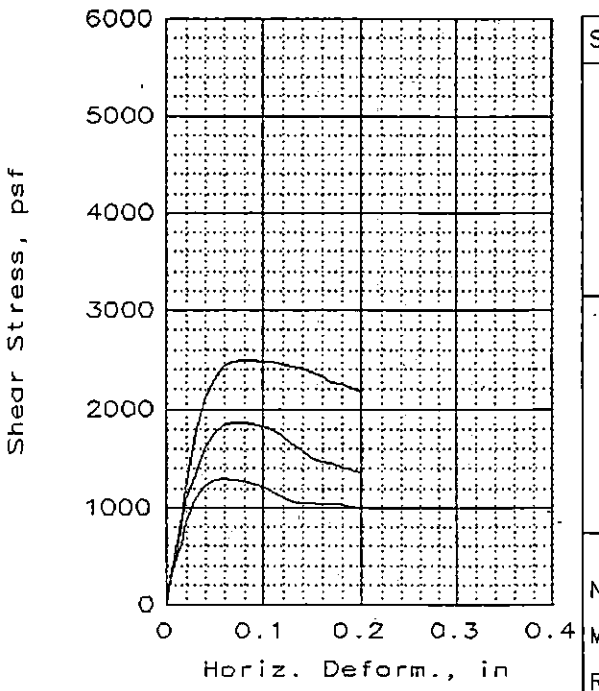
DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.





	PEAK	RESIDUAL
C, psf	687	334
ϕ, deg	50.0	49.8
TAN ϕ	1.19	1.18



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.3	7.3	7.3
	DRY DENSITY, pcf	119.9	119.9	119.9
	SATURATION, %	51.0	51.0	51.0
	VOID RATIO	0.379	0.379	0.379
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.3	7.3	7.3
	DRY DENSITY, pcf	119.9	119.9	119.9
	SATURATION, %	51.0	51.0	51.0
	VOID RATIO	0.379	0.379	0.379
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		1294	1857	2487
RESIDUAL SHEAR, psf		1002	1362	2183
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE:

DESCRIPTION: C-25, COMMON FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080
DIRECT SHEAR TEST
DRY CONDITION

FIG. NO. C-25

CLIENT: TOWN OF HUNTINGTON

PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: C-25, COMMON FILL

PROJ. NO.: 94S1749-01 DATE: 5-23-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

APPENDIX I

SELECT FILL

SUB APPENDIX I–1

SOIL SAMPLE LOG

GeoSyntec Consultants

TOWN OF HUNTINGTON

SOIL SAMPLE LOG FOR SELECT FILL

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: ____ day ____ month 94 year

SITE SAMPLE NO.	OFF-SITE LAB SAMPLE NO.	SOIL DESCRIPTION	SOURCE (LOCATION, DEPTH, ELEVATION)	MATERIAL TYPE	DATE (day/mo)	TEST METHODS	QA ID
S-1	17/11	BR. SILTY SAND	R. SCHLEIDER YARD STOCKPILE	SELECT FILL	17/11	ASTM D1557 & D422	
* S-2	18/11	BR. SILTY SAND	R. SCHLEIDER YARD STOCKPILE	SELECT FILL	18/11	ASTM D3080	
* S-3	18/11	BR. SILTY SAND	R. SCHLEIDER YARD STOCKPILE	SELECT FILL	18/11	ASTM D3080	
* S-4	18/11	BR. SILTY SAND	R. SCHLEIDER YARD STOCKPILE	SELECT FILL	18/11	ASTM D3080	
S-5	28/11	BR. SILTY SAND	R. SCHLEIDER YARD STOCKPILE	SELECT FILL	28/11	ASTM D422 & D1557	
S-6	29/11	BR. SILTY SAND	R. SCHLEIDER YARD STOCKPILE	SELECT FILL	29/11	ASTM D422 & D1557	
S-7	1/12	BR. SILTY SAND	R. SCHLEIDER YARD STOCKPILE	SELECT FILL	30/11	ASTM D3080	
S-8	1/12	BR. SILTY SAND	R. SCHLEIDER YARD STOCKPILE	SELECT FILL	30/11	ASTM D3080	
S-9	2/12	BR. SILTY SAND	R. SCHLEIDER YARD STOCKPILE	SELECT FILL	30/11	ASTM D5321	

NOTES: * DISCARDED BECAUSE OF FAILED SIEVE ANALYSIS (ASTM D422).

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

SOIL SAMPLE LOG FOR SELECT FILL

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 30 day 12 month 94 & 95 year

SITE SAMPLE NO.	OFF-SITE LAB SAMPLE NO.	SOIL DESCRIPTION	SOURCE (LOCATION, DEPTH, ELEVATION)	MATERIAL TYPE	DATE (day/mo)	TEST METHODS	QA ID
S-10		BR. SILTY SAND	R. SCHLEIDER YARD STOCKPILE	SELECT	30/12	ASTM D422	FVC
S-11		BR. SILTY SAND	R. SCHLEIDER YARD STOCKPILE	SELECT	30/12	ASTM 422	FVC
S-12		BR. SILTY	R. SCHLEIDER YARD STOCKPILE	SELECT	9/1	ASTM 422	FVC
S-13		BR. SILTY SAND	R. SCHLEIDER YARD STOCKPILE	SELECT	22 FEB	ASTM 422	WC
S-14		Brown Silty Sand	Syosset on-site Stockpile	Alternate Select	2/3	Astm D422, 1557, 2487 D3080	GD
S-15		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	06/04	ASTM D422, 1557, 2487 D3080	DR
S-16		BROWN SILTY SAND	R SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	10/4	ASTM D422, 1557, 2487	DJR
S-17		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	12/4	ASTM 422, 1557, 2487 D3080	D.J.R.
S-18		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	14/4	ASTM 422, 1557, 2487 D3080	DJR
S-19		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	18/4	ASTM D 422, 1557, 2487 D3080	DJR
S-20		BROWN SILTY SAND	R SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	18/4	ASTM D 422, 1557, 2487 D3080	DJR
S-18A		BROWN SILTY SAND	R SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	20/4	ASTM D 422, 1557, 2487 D3080	DJR
S-20A		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	20/4	ASTM D 422, 1557, 2487 D3080	DJR
S-21		BROWN SILTY SAND	ON SITE - EXCAVATED COMP. FROM MANHOLE RUN, STORM-WATER STRUCTURE #3 TO CATCHBASIN #9	EXISTING MAT./ ALTERNATE SELECT	21/4	ASTM D 422, 1557, 2487	DJR

NOTES:

GeoSyntec Consultants

TOWN OF HUNTINGTON

SOIL SAMPLE LOG FOR SELECT FILL

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 25 day 04 month 95 year

SITE SAMPLE NO.	OFF-SITE LAB SAMPLE NO.	SOIL DESCRIPTION	SOURCE (LOCATION, DEPTH, ELEVATION)	MATERIAL TYPE	DATE (day/mo)	TEST METHODS	QA ID
S-22		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	25/04	ASTM D 3080 ASTM D 422, 1557, 2487	D/R
S-23		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	28/04	ASTM D3080 ASTM D 422, 1557, 2487	D/R
S-24		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	02/05	ASTM D 422, 1557, 2487, 3080	D/R
S-25		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	05/05	ASTM D 422, 1557, 2487, 3080	D/R
S-26		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	08/05	ASTM D 422, 1667, 2487, 3080	D/R
S-27		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	09/05	ASTM D 422, 1557, 2487, 3080	D/R
S-28		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	10/05	ASTM 422, 1557, 2487, 3080	D/R
S-29		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	12/05	ASTM 422, 1557, 2487, 3080	D/R
S-30		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	15/05	ASTM 422, 1557, 2487, 3080	D/R
S-31		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	17/05	ASTM D422, 1557, 2487, 3080	D/R
S-32		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	18/05	ASTM D 422, 1557, 2487, 3080	D/R
S-33		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	19/05	ASTM D 422, 1557, 2487, 3080	D/R
S-34		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	22/05	ASTM D 422, 1557, 2487, 3080	D/R
S-35		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	23/05	ASTM D 422, 1557, 2487, 3080	D/R
S-36		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	24/05	ASTM D 422, 1557, 2487, 3080	D/R

NOTES:

GeoSyntec Consultants

TOWN OF HUNTINGTON

SOIL SAMPLE LOG FOR SELECT FILL

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 25 day 05 month 95 year

SITE SAMPLE NO.	OFF-SITE LAB SAMPLE NO.	SOIL DESCRIPTION	SOURCE (LOCATION, DEPTH, ELEVATION)	MATERIAL TYPE	DATE (day/mo)	TEST METHODS	QA ID
S-37		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	26/05	ASTM D 422, 1557, 2487, 3080	D/R
S-38		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	26/05	ASTM D 422, 1557, 2487, 3080	D/R
S-39		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	30/05	ASTM D 422, 1557, 2487, 3080	D/R
S-40		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	30/05	ASTM D 422, 1557, 2487, 3080	D/R
S-41		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	01/06	ASTM D 422, 1557, 2487, 3080	D/R
S-42		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	05/06	ASTM 422, 1557, 2487, 3080	D/R
S-43		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	06/06	ASTM 422, 1557, 2487, 3080	D/R
S-44		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	07/06	ASTM 422, 1557, 2487, 3080	D/R
S-45		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	08/06	ASTM 422, 1557, 2487, 3080	D/R
S-46		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	09/06	ASTM D 422, 1557, 2487, 3080	D/R
S-47		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	12/06	ASTM D 422, 1557, 2487, 3080	D/R
S-48		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	13/06	ASTM D 422, 1557, 2487, 3080	D/R
S-49		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	14/06	ASTM D 422, 1557, 2487, 3080	D/R
S-50		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	15/06	ASTM D 422, 1557, 2487, 3080	D/R
S-51		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	16/06	ASTM D 422, 1557, 2487, 3080	D/R

NOTES:

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TOWN OF HUNTINGTON

SOIL SAMPLE LOG FOR SELECT FILL

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 19 day 06 month 95 year

SITE SAMPLE NO.	OFF-SITE LAB SAMPLE NO.	SOIL DESCRIPTION	SOURCE (LOCATION, DEPTH, ELEVATION)	MATERIAL TYPE	DATE (day/mo)	TEST METHODS	QA ID
S-52		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	19/06	ASTM D 422, 1557, 2487, 3080	D/R
S-53		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	20/06	ASTM D 422, 1557, 2487, 3080	D/R
S-54		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	21/06	ASTM D 422, 1557, 2487, 3080	D/R
S-55		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	21/06	ASTM D 422, 1557, 2487, 3080	D/R
S-56		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	22/06	ASTM D 422, 1557, 2487, 3080	D/R
S-57		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	22/06	ASTM D 422, 1557, 2487, 3080	D/R
S-58		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	23/06	ASTM D 422, 1557, 2487, 3080	D/R
S-59		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	26/06	ASTM D 422, 1557, 2487, 3080	D/R
S-60		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	27/06	ASTM D 422, 1557, 2487, 3080	D/R
S-61		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	27/06	ASTM D 422, 1557, 2487, 3080	D/R
S-62		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	28/06	ASTM D 422, 1557, 2487, 3080	D/R
S-63		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	29/06	ASTM D 422, 1557, 2487, 3080	D/R
S-64		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	30/06	ASTM D 422, 1557, 2487, 3080	D/R
S-65		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	03/07	ASTM D 422, 1557, 2487, 3080	D/R
S-66		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	05/07	ASTM D 422, 1557, 2487, 3080	D/R

NOTES:

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TOWN OF HUNTINGTON

SOIL SAMPLE LOG FOR SELECT FILL

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

SITE SAMPLE NO.	OFF-SITE LAB SAMPLE NO.	SOIL DESCRIPTION	SOURCE (LOCATION, DEPTH, ELEVATION)	MATERIAL TYPE	DATE (day/mo)	TEST METHODS	QA ID
S-67		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	06/07	ASTM D 422, 1557, 2487, 3080	D/R
S-68		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	07/07	ASTM D 422, 1557, 2487, 3080	D/R
S-69		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	10/07	ASTM D 422, 1557, 2487, 3080	D/R
S-70		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	11/07	ASTM D 422, 1557, 2487, 3080	D/R
S-71		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	12/07	ASTM D 422, 1557, 2487, 3080	D/R
S-72		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	13/07	ASTM D 422, 1557, 2487, 3080	D/R
S-73		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	14/07	ASTM D 422, 1557, 2487, 3080	D/R
S-74		BROWN SILTY SAND	R. SCHLEIDER ON-SITE BETWEEN SECT 1 & 2 TOE OF SLOPE AND TRENCH A	ALTERNATE SELECT	19/07	ASTM D 422, 1557, 2487, 3080	D/R
S-75		BROWN SILTY SAND	R. SCHLEIDER ON-SITE BETWEEN SECT 1 & 2 TOP OF SLOPE	ALTERNATE SELECT	21/07	ASTM D 422, 1557, 2487, 3080	D/R
S-76		BROWN SILTY SAND	R. SCHLEIDER ON-SITE BETWEEN SECT. 5 & 6 TOE OF SLOPE	ALTERNATE SELECT	31/07	ASTM D 422, 1557, 2487, 3080	D/R
S-77		BROWN SILTY SAND	R. SCHLEIDER ON-SITE BETWEEN SECT 5 & 6 TOE OF SLOPE	ALTERNATE SELECT	01/08	ASTM D 422, 1557, 2487, 3080	D/R
S-77A		BROWN SILTY SAND	ON SITE SAMP. SECT 5-4A BET. CHANNEL C & D	ALTERNATE SELECT	02/08	ASTM D 3080 (PER. K. CARLIN)	D/R
S-78		BROWN SILTY SAND	ON SITE BETWEEN SECT. 5-4A BETWEEN CHANNEL C & D	ALTERNATE SELECT	02/08	ASTM D 422, 1557, 2487, 3080	D/R
S-79		BROWN SILTY SAND	ON SITE BETWEEN SECT 5-4A BETWEEN CHANNEL C & D	ALTERNATE SELECT	03/08	ASTM D 422, 1557, 2487, 3080	D/R
S-80		BROWN SILTY SAND	ON SITE BETWEEN SECT 4-4A BETWEEN CHANNEL E AND TOE	ALTERNATE SELECT	04/08	ASTM D 422, 1557, 2487, 3080	D/R

NOTES:

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TOWN OF HUNTINGTON

SOIL SAMPLE LOG FOR SELECT FILL

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

SITE SAMPLE NO.	OFF-SITE LAB SAMPLE NO.	SOIL DESCRIPTION	SOURCE (LOCATION, DEPTH, ELEVATION)	MATERIAL TYPE	DATE (day/mo)	TEST METHODS	QA ID
S-81		BROWN SILTY SAND	ON SITE BETWEEN SECT 4-4A BETWEEN CHANNEL X AND TOE	ALTERNATE SELECT	07/08	ASTM D 422, 1557, 2487, 3080	DJR
S-82		BROWN SILTY SAND	ON SITE BETWEEN SECT. 4-17A BETWEEN CHANNEL X & TOE	ALTERNATE SELECT	08/08	ASTM D 422, 1557, 2487, 3080	DJR
S-83		BROWN SILTY SAND	ON-SITE BETWEEN SECT. 4-17A BETWEEN CHANNEL X & TOE	ALTERNATE SELECT	09/08	ASTM D 422, 1557, 2487, 3080	DJR
S-84		BROWN SILTY SAND	ON SITE BETWEEN SECT 4-17A BETWEEN CHANNEL X TOE	ALTERNATE SELECT	10/08	ASTM D 422, 1557, 2487, 3080	DJR
S-85		BROWN SILTY SAND	ON SITE BETWEEN SECT 4-17A BETWEEN CHANNEL X TOE	ALTERNATE SELECT	11/08	ASTM D 422, 1557, 2487, 3080	DJR
S-86		BROWN SILTY SAND	ON SITE BETWEEN SECT 4-17A BETWEEN CHANNEL X & TOE	ALTERNATE SELECT	14/08	ASTM D 422, 1557, 2487, 3080	DJR
S-87		BROWN SILTY SAND	ON SITE BETWEEN SECT 5-4A AT TOP OF SLOPE	ALTERNATE SELECT	15/08	ASTM D 422, 1557, 2487, 3080	DJR
S-88		BROWN SILTY SAND	ON SITE BETWEEN SECT 4-17A AT TOP OF SLOPE	ALTERNATE SELECT	16/08	ASTM D 422, 1557, 2487, 3080	DJR
S-89		BROWN SILTY SAND	ON SITE BETWEEN SECT. 4-4A BETWEEN CHANNELS K & D	ALTERNATE SELECT	17/08	ASTM D 422, 1557, 2487, 3080	DJR
S-90		BROWN SILTY SAND	ON SITE BETWEEN SECT 13W & 18 ABOVE CHANNEL F	ALTERNATE SELECT	18/08	ASTM D 422, 1557, 2487, 3080	DJR
S-91		BROWN SILTY SAND	ON SITE BETWEEN SECT 14W-15W TOP OF SLOPE	ALTERNATE SELECT	21/08	ASTM D 422, 1557, 2487, 3080	DJR
S-92		BROWN SILTY SAND	ON SITE BETWEEN SECT 14W-15W TOP OF SLOPE	ALTERNATE SELECT	22/08	ASTM D 422, 1557, 2487, 3080	DJR
S-93		BROWN SILTY SAND	ON SITE BETWEEN 17-18 TOP OF SLOPE	ALTERNATE SELECT	23/08	ASTM D 422, 1557, 2487, 3080	DJR
S-94		BROWN SILTY SAND	ON SITE BETWEEN 17-18 TOP OF SLOPE	ALTERNATE SELECT	24/08	ASTM D 422, 1557, 2487, 3080	DJR
S-95		BROWN SILTY SAND	ON SITE BETWEEN 17-18 TOP OF SLOPE	ALTERNATE SELECT	25/08	ASTM D 422, 1557, 2487, 3080	DJR

NOTES:

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

SOIL SAMPLE LOG FOR SELECT FILL

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

SITE SAMPLE NO.	OFF-SITE LAB SAMPLE NO.	SOIL DESCRIPTION	SOURCE (LOCATION, DEPTH, ELEVATION)	MATERIAL TYPE	DATE (day/mo)	TEST METHODS	QA ID
			BETWEEN SECT. 13W-14W				
S-96		BROWN SILTY SAND	TOP OF SLOPE BETWEEN SECT 17-17A	ALTERNATE SELECT	28/08	ASTM D 422, 1557, 2487, 3080	P1R
S-97		BROWN SILTY SAND	TOE OF SLOPE BETWEEN SECTION 13W-14W	ALTERNATE SELECT	29/08	ASTM D 422, 1557, 2487, 3080	P1R
S-98		BROWN SILTY SAND	TOE OF SLOPE BETWEEN SECT 15W-19W	ALTERNATE SELECT	30/08	ASTM D 422, 1557, 2487, 3080	P1R
S-99		BROWN SILTY SAND	BETWEEN TRENCH I & Q BETWEEN SECT. 15W-19W	ALTERNATE SELECT	31/08	ASTM D 422, 1557, 2487, 3080	P1R
S-100		BROWN SILTY SAND	BETWEEN TRENCH I & Q BETWEEN SECT 19W-20W	ALTERNATE SELECT	01/09	ASTM D 422, 1557, 2487, 3080	P1R
S-101		BROWN SILTY SAND	TOP OF SLOPE BETWEEN SECT. 19W-20W	ALTERNATE SELECT	05/09	ASTM D 422, 1557, 2487, 3080	P1R
S-102		BROWN SILTY SAND	TOE OF SLOPE BETWEEN SECT 19W-20W	ALTERNATE SELECT	06/09	ASTM D 422, 1557, 2487, 3080	P1R
S-103		BROWN SILTY SAND	TOP OF SLOPE BETWEEN SECT 17A-4	ALTERNATE SELECT	07/09	ASTM D422, 1557, 2487, 3080	P1R
S-104		BROWN SILTY SAND	TOE OF SLOPE TOE OF SLOPE BETWEEN	ALTERNATE SELECT	08/09	ASTM D 422, 1557, 2487, 3080	P1R
S-105		BROWN SILTY SAND	SECT. 18-19W TOP OF SLOPE BETWEEN	ALTERNATE SELECT	11/09	ASTM D 422, 1557, 2487, 3080	P1R
S-106		BROWN SILTY SAND	SECTS. 14W-15W SOUTH END CREST OF	ALTERNATE SELECT	12/09	ASTM D 422, 1557, 2487, 3080	P1R
S-107		BROWN SILTY SAND	SLOPE NEAR SECT 20W TOE OF SLOPE NEAR	ALTERNATE SELECT	13/09	ASTM D 422, 1557, 2487, 3080	P1R
S-108		BROWN SILTY SAND	SECT. 19W TOP OF SLOPE BETWEEN	ALTERNATE SELECT	14/09	ASTM D 422, 1557, 2487, 3080	P1R
S-109		BROWN SILTY SAND	SECTS. 15W & 19W TOE OF SLOPE NEAR	ALTERNATE SELECT	15/09	ASTM D 422, 1557, 2487, 3080	P1R
S-110		BROWN SILTY SAND	SECT LINE 20W	ALTERNATE SELECT	18/09	ASTM D 422, 1557, 2487, 3080	P1R

NOTES:

GeoSyntec Consultants

TOWN OF HUNTINGTON

SOIL SAMPLE LOG

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

SITE SAMPLE NO.	OFF-SITE LAB SAMPLE NO.	SOIL DESCRIPTION	SOURCE (LOCATION, DEPTH, ELEVATION)	MATERIAL TYPE	DATE (day/mo)	TEST METHODS	QA ID
S-111		BROWN SILTY SAND	TOP OF SLOPE AT SOUTH TIP BETW. SECTS. 19W & 20W	ALTERNATE SELECT	19/09	ASTM D422, 1558, 2487, 3080	D/R
S-112		BROWN SILTY SAND	TOE OF SLOPE BETWEEN SECTS. 21W & 20W	ALTERNATE SELECT	20/09	ASTM D422, 1557, 2487, 3080	D/R
S-113		BROWN SILTY SAND	SOUTH END, CREST OF SLOPE NEAR SECT. 20W	ALTERNATE SELECT	21/09	ASTM D 422, 1557, 2487, 3080	D/R
S-114		BROWN SILTY SAND	TOE OF SLOPE - HAUL ROAD BETWEEN SECT 22B & 23	ALTERNATE SELECT	22/09	ASTM D422, 1557, 2487, 3080	D/R
S-115		BROWN SILTY SAND	TOP OF SECT. LINE 23	ALTERNATE SELECT	25/09	ASTM D 422, 1557, 2487, 3080	D/R
S-116		BROWN SILTY SAND	TOE OF SLOPE AT SECT. 23	ALTERNATE SELECT	26/09	ASTM D422, 1557, 2487, 3080	D/R
S-117		BROWN SILTY SAND	TOE OF SLOPE SECT 22A	ALTERNATE SELECT	27/09	ASTM D 422, 1557, 2487, 3080	D/R
S-118		BROWN SILTY SAND	TOE OF SLOPE SECT. LINE 21E	ALTERNATE SELECT	28/09	ASTM D422, 1557, 2487, 3080	D/R
S-119		BROWN SILTY SAND	TOE OF SLOPE SECT. LINE 20E	ALTERNATE SELECT	29/09	ASTM D 422, 1557, 2487, 3080	D/R
S-120		BROWN SILTY SAND	TOP OF SLOPE BETWEEN SECT. 14E-15E	ALTERNATE SELECT	2/10	ASTM D 422, 1557, 2487, 3080	D/R
S-121		BROWN SILTY SAND	TOP OF SLOPE BETWEEN SECT. 14E-15E	ALTERNATE SELECT	4/10	ASTM D 422, 1557, 2487, 3080	D/R
S-122		BROWN SILTY SAND	TOP OF SLOPE BETWEEN SECT 14E-15E	ALTERNATE SELECT	6/10	ASTM D 422, 1557, 2487, 3080	D/R
S-123		BROWN SILTY SAND	TOP OF SLOPE BETWEEN SECT 14E-15E	ALTERNATE SELECT	9/10	ASTM D 422, 1557, 2487, 3080	D/R
S-124		BROWN SILTY SAND	TOP OF SLOPE BETWEEN SECT 14E-15E	ALTERNATE SELECT	11/10	ASTM D 422, 1557, 2487, 3080	D/R
S-125		BROWN SILTY SAND	TOP OF SLOPE BETWEEN SECT 14E-15E	ALTERNATE SELECT	13/10	ASTM D 422, 1557, 2487, 3080	D/R

NOTES:

GeoSyntec Consultants

TOWN OF HUNTINGTON

SOIL SAMPLE LOG

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

SITE SAMPLE NO.	OFF-SITE LAB SAMPLE NO.	SOIL DESCRIPTION	SOURCE (LOCATION, DEPTH, ELEVATION)	MATERIAL TYPE	DATE (day/mo)	TEST METHODS	QA ID
S-126		BROWN SILTY SAND	TRANSFER STATION PARKING LOT SECT 8-8A	ALTERNATE SELECT	18/10	ASTM D 422, 1557, 2487, 3080	D1R
S-127		BROWN SILTY SAND	TRANSFER STATION PARKING LOT SECT 8-8A	ALTERNATE SELECT	20/10	ASTM D 422, 1557, 2487, 3080	D1R
S-128		BROWN SILTY SAND	TRANSFER STATION PARKING LOT SECT 8-7	ALTERNATE SELECT	23/10	ASTM D 422, 1557, 2487, 3080	D1R
S-129		BROWN SILTY SAND	TRANSFER STATION PARKING LOT SECT 7-3A	ALTERNATE SELECT	25/10	ASTM D 422, 1557, 2487, 3080	D1R
S-130		BROWN SILTY SAND	TRANSFER STATION PARKING LOT SECT 8-8A	ALTERNATE SELECT	27/10	ASTM D 422, 1557, 2487, 3080	D1R
S-131		BROWN SILTY SAND	ABOVE HAUL ROAD BET. SECT. 13E-12	ALTERNATE SELECT	30/10	ASTM D 422, 1557, 2487, 3080	D1R
S-132		BROWN SILTY SAND	ABOVE HAUL ROAD BET. SECT. 13E-12	ALTERNATE SELECT	31/10	ASTM D 422, 1557, 2487, 3080	D1R
S-133		BROWN SILTY SAND	TOP OF SLOPE BET. SECT. 9-9A	ALTERNATE SELECT	01/11	ASTM D 422, 1557, 2487, 3080	D1R
S-134		BROWN SILTY SAND	STOCKPILE AT TOP OF SLOPE BET. SECT. IIA-3	ALTERNATE SELECT	02/11	ASTM D 422, 1557, 2487, 3080	D1R
S-135		BROWN SILTY SAND	STOCKPILE AT TOP OF SLOPE BET. SECT. IIA-3	ALTERNATE SELECT	03/11	ASTM D 422, 1557, 2487, 3080	D1R
S-136		BROWN SILTY SAND	STOCKPILE AT TOP OF SLOPE BET. SECT. IIA-3	ALTERNATE SELECT	06/11	ASTM D 422, 1557, 2487, 3080	D1R
S-137		BROWN SILTY SAND	STOCKPILE AT TOP OF SLOPE BET. SECT. IIA-3	ALTERNATE SELECT	07/11	ASTM D 422, 1557, 2487, 3080	D1R
S-138		BROWN SILTY SAND	STOCKPILE AT TOP OF SLOPE BET. SECT. IIA-3	ALTERNATE SELECT	08/11	ASTM D 422, 1557, 2487, 3080	D1R
S-139		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	10/11	ASTM D 422, 1557, 2487, 3080	D1R

NOTES:

GeoSyntec Consultants

TOWN OF HUNTINGTON

SOIL SAMPLE LOG

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

SITE SAMPLE NO.	OFF-SITE LAB SAMPLE NO.	SOIL DESCRIPTION	SOURCE (LOCATION, DEPTH, ELEVATION)	MATERIAL TYPE	DATE (day/mo)	TEST METHODS	QA ID
S-140		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	10/11	ASTM D 422, 1557, 2487, 3080	D1R
S-141		BROWN SILTY SAND	"	ALTERNATE SELECT	13/11	ASTM D 422, 1557, 2487, 3080	D1R
S-142		BROWN SILTY SAND	"	ALTERNATE SELECT	13/11	ASTM D 422, 1557, 2487, 3080	D1R
S-143		BROWN SILTY SAND	"	ALTERNATE SELECT	14/11	ASTM D 422, 1557, 2487, 3080	D1R
S-144		BROWN SILTY SAND	"	ALTERNATE SELECT	15/11	ASTM D 422, 1557, 2487, 3080	D1R
S-145		BROWN SILTY SAND	"	ALTERNATE SELECT	16/11	ASTM D 422, 1557, 2487, 3080	D1R
S-146		BROWN SILTY SAND	"	ALTERNATE SELECT	17/11	ASTM D 422, 1557, 2487, 3080	D1R
S-147		BROWN SILTY SAND	"	ALTERNATE SELECT	20/11	ASTM D 422, 1557, 2487, 3080	D1R
S-148		BROWN SILTY SAND	"	ALTERNATE SELECT	21/11	ASTM D 422, 1557, 2487, 3080	D1R
S-149		BROWN SILTY SAND	"	ALTERNATE SELECT	22/11	ASTM D 422, 1557, 2487, 3080	D1R
S-150		BROWN SILTY SAND	"	ALTERNATE SELECT	23/11	ASTM D 422, 1557, 2487, 3080	D1R
S-151		BROWN SILTY SAND	"	ALTERNATE SELECT	24/11	ASTM D 422, 1557, 2487, 3080	D1R
S-152		BROWN SILTY SAND	"	ALTERNATE SELECT	24/11	ASTM D 422, 1557, 2487, 3080	D1R
S-153		BROWN SILTY SAND	"	ALTERNATE SELECT	27/11	ASTM D 422, 1557, 2487, 3080	D1R
S-154		BROWN SILTY SAND	"	ALTERNATE SELECT	27/11	ASTM D 422, 1557, 2487, 3080	D1R

NOTES:

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TOWN OF HUNTINGTON

SOIL SAMPLE LOG

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SITE SAMPLE NO.	OFF-SITE LAB SAMPLE NO.	SOIL DESCRIPTION	SOURCE (LOCATION, DEPTH, ELEVATION)	MATERIAL TYPE	DATE (day/mo)	TEST METHODS	QA ID
S-155		BROWN SILTY SAND	R. SCHLEIDER YARD STOCKPILE	ALTERNATE SELECT	28/11	ASTM D422, 1557, 2487, 3080	JPR
S-156		BROWN SILTY SAND	"	ALTERNATE SELECT	28/11	ASTM D 422, 1557, 2487, 3080	JPR
S-157		BROWN SILTY SAND	"	ALTERNATE SELECT	29/11	ASTM D 422, 1557, 2487, 3080	JPR
S-158		BROWN SILTY SAND	"	ALTERNATE SELECT	29/11	ASTM D 422, 1557, 2487, 3080	JPR
S-159		BROWN SILTY SAND	"	ALTERNATE SELECT	29/11	ASTM D 422, 1557, 2487, 3080	JPR
S-160		BROWN SILTY SAND	"	ALTERNATE SELECT	30/11	ASTM D 422, 1557, 2487, 3080	JPR
S-161		BROWN SILTY SAND	"	ALTERNATE SELECT	3/5/96	ASTM D 422, 1557, 2487, 3080	JPR
S-162		BROWN SILTY SAND	"	ALTERNATE SELECT	3/5/96	ASTM D 422, 1557, 2487, 3080	JPR

NOTES: _____

SUB APPENDIX 2

LABORATORY TEST RESULTS

GeoSyntec Consultants

TOWN OF HUNTINGTON

LABORATORY TEST SUMMARY For Select Fill

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 3 day 3 month 95 year

SOURCE: R. Schleider MATERIAL TYPE: Select Fill QA ID: GD

NOTE: Separate forms are required for each material type and source. All samples must have a site sample number and be recorded on the soil sample log.

SITE SAMPLE NO.	GEL SAMPLE NO.	SAMPLE MOISTURE CONTENT ASTM D 2216 (%)	GRAIN SIZE			ATTERBURG LIMITS ASTM D 4318			SOIL CLASSIFICATION ASTM D 2487	DIRECT SHEAR	INTERF FRICT. ANGLE	COMPACTION ASTM D 698 (or) ASTM D 1557		PERMEABILITY ASTM D 2434[1] (or) ASTM D 5084[2]			PASS/ FAIL	ACUMUL. QUANT. PLACED (APPROX)
			PASSING NO. 200 SIEVE ASTM D 1140 (%)	ASTM D 422 SIEVE	ASTM D 422 HYDR.	LL (%)	PL (%)	PI		ASTM D3080 °(deg)	ASTM D5321 °(deg)	MAX. DRY UNIT WT. (pcf)	OPT. MOIST. CONT. (%)	DRY UNIT WT. (pcf)	MOIST. CONT. ASTM D 2216 (%)	HYDRAULIC COND'VITY (cm/sec)		(yd^3)
S-1				✓								124.9	9.2				F	
S-2																		
S-3																		
S-4																		
S-5				✓													F	
S-6				✓								122.9	7.4				P	
S-7										36.8								
S-8										41.6								
S-9																		
S-10				✓														

COMMENTS:

NOTES: (1) HYDRAULIC CONDUCTIVITY DETERMINED AT A HYDRAULIC GRADIENT OF ____.

(2) HYDRAULIC CONDUCTIVITY DETERMINED AT AN EFFECTIVE CONFINING STRESS OF ____.

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

LABORATORY TEST SUMMARY For Select Fill

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 28 day 4 month 95 year

SOURCE: R. Schleider MATERIAL TYPE: Select Fill QA ID: GD

NOTE: Separate forms are required for each material type and source. All samples must have a site sample number and be recorded on the soil sample log.

SITE SAMPLE NO.	GEL SAMPLE NO.	SAMPLE MOISTURE CONTENT ASTM D 2216 (%)	GRAIN SIZE			ATTERBURG LIMITS ASTM D 4318			SOIL CLASSIFICATION ASTM D 2487	DIRECT SHEAR	INTERF FRICT. ANGLE	COMPACTION ASTM D 698 (or) ASTM D 1557		PERMEABILITY ASTM D 2434[1] (or) ASTM D 5084[2]			PASS/ FAIL	ACUMUL. QUANT. PLACED (APPROX)
			PASSING NO. 200 SIEVE ASTM D 1140 (%)	ASTM D 422 SIEVE	ASTM D 422 HYDR.	LL (%)	PL (%)	PI		ASTM D3080 °(deg)	ASTM D5321 °(deg)	MAX. DRY UNIT WT. (pcf)	OPT. MOIST. CONT. (%)	DRY UNIT WT. (pcf)	MOIST. CONT. ASTM D 2216 (%)	HYDRAULIC COND'VITY (cm/sec)		(yd^3)
S-11				✓														
S-12				✓														
S-13				✓														
S-14				✓					SM	41.7		129.0	8.5				P	
S-15				✓					SM	33.3/42*	*34°	126.2	9.5				P	
S-16				✓					SM	41.4		127.6	9.4				P	
S-17				✓					SW-SM	42.0		130.2	9.3				P	
S-18				✓					SP-SM			128.7	8.5				F	
S-18A				✓					SW-SM	36.8		129.4	8.1				P	
S-19				✓					SW-SM	39.3		126.5	8.9				P	

COMMENTS:

NOTES: (1) HYDRAULIC CONDUCTIVITY DETERMINED AT A HYDRAULIC GRADIENT OF ____.

(2) HYDRAULIC CONDUCTIVITY DETERMINED AT AN EFFECTIVE CONFINING STRESS OF ____.

* TESTED W/GN-1

GeoSyntec Consultants

TOWN OF HUNTINGTON

LABORATORY TEST SUMMARY For Select Fill

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 27 day 5 month 95 year

SOURCE: R. Schleider MATERIAL TYPE: Select Fill QA ID: GD

NOTE: Separate forms are required for each material type and source. All samples must have a site sample number and be recorded on the soil sample log.

SITE SAMPLE NO.	GEL SAMPLE NO.	SAMPLE MOISTURE CONTENT ASTM D 2216 (%)	GRAIN SIZE			ATTERBURG LIMITS ASTM D 4318			SOIL CLASSIFICATION ASTM D 2487	DIRECT SHEAR	INTERF FRICT. ANGLE	COMPACTION ASTM D 698 (or) ASTM D 1557		PERMEABILITY ASTM D 2434[1] (or) ASTM D 5084[2]			PASS/ FAIL	ACUMUL. QUANT. PLACED (APPROX)
			PASSING NO. 200 SIEVE ASTM D 1140 (%)	ASTM D 422 SIEVE	ASTM D 422 HYDR.	LL (%)	PL (%)	PI		ASTM D3080 °(deg)	ASTM D5321 °(deg)	MAX. DRY UNIT WT. (pcf)	OPT. MOIST. CONT. (%)	DRY UNIT WT. (pcf)	MOIST. CONT. ASTM D 2216 (%)	HYDRAULIC COND'VITY (cm/sec)		(yd^3)
S-20				✓					SW-SM			129.2	8.6				P	
S-20A				✓					SM	47.5		126.9	9.9				P	
S-21				✓					SW			123.3	8.8				P	
S-22				✓					SM	46.4		131.8	7.6				P	
S-23				✓					SM	46.6		132.4	6.9				P	
S-24				✓					SM	46.7		130.8	8.3				P	
S-25				✓					SW-SM	46.7		124.5	8.6				P	
S-26				✓					SW-SM	46.2		130.6	7.1				P	
S-27				✓					SW-SM	44.4		129.7	7.3				P	
S-28				✓					SW-SM	45.7		128.0	8.6				P	

COMMENTS:

NOTES: (1) HYDRAULIC CONDUCTIVITY DETERMINED AT A HYDRAULIC GRADIENT OF ____.

(2) HYDRAULIC CONDUCTIVITY DETERMINED AT AN EFFECTIVE CONFINING STRESS OF ____.

GeoSyntec Consultants

TOWN OF HUNTINGTON

LABORATORY TEST SUMMARY FOR SELECT FILL

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 13 day 6 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: Select Fill QA ID: GD

NOTE: Separate forms are required for each material type and source. All samples must have a site sample number and be recorded on the soil sample log.

SITE SAMPLE NO.	GEL SAMPLE NO.	SAMPLE MOISTURE CONTENT ASTM D 2216 (%)	GRAIN SIZE			ATTERBURG LIMITS ASTM D 4318			SOIL CLASSIFICATION ASTM D 2487	DIRECT SHEAR	INTERF FRICT. ANGLE	COMPACTION ASTM D 698 (or) ASTM D 1557		PERMEABILITY ASTM D 2434[1] (or) ASTM D 5084[2]			PASS/ FAIL	ACUMUL. QUANT. PLACED (APPROX)
			PASSING NO. 200 SIEVE ASTM D 1140 (%)	ASTM D 422 SIEVE	ASTM D 422 HYDR.	LL (%)	PL (%)	PI		ASTM D3080 °(deg)	ASTM D5321 °(deg)	MAX. DRY UNIT WT. (pcf)	OPT. MOIST. CONT. (%)	DRY UNIT WT. (pcf)	MOIST. CONT. ASTM D 2216 (%)	HYDRAULIC COND'VITY (cm/sec)		(yd^3)
S-29				✓					SW-SM	41.8		128.1	7.4				P	
S-30				✓					SW-SM	49.9		128.31	7.6				P	
S-31				✓					SM	60.8		131.5	8.2				P	
S-32				✓					SW-SM	57.7		125.6	7.5				P	
S-33				✓					SW-SM	63.7		125.9	7.5				P	
S-34				✓					SW-SM	64.4		129.1	7.5				P	
S-35				✓					SW-SM	62.5		127.1	7.3				P	
S-36				✓					SW-SM	57.6		126.8	6.7				P	
S-37				✓					SW-SM	51.1		128.6	7.5				P	
S-38				✓					SW-SM	54.8		124.4	7.5				P	

COMMENTS:

NOTES: (1) HYDRAULIC CONDUCTIVITY DETERMINED AT A HYDRAULIC GRADIENT OF ____.

(2) HYDRAULIC CONDUCTIVITY DETERMINED AT AN EFFECTIVE CONFINING STRESS OF ____.

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

LABORATORY TEST SUMMARY For Select Fill

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 20 day June month 1995 year

SOURCE: Ray Schleider MATERIAL TYPE: Select Fill QA ID: GD

NOTE: Separate forms are required for each material type and source. All samples must have a site sample number and be recorded on the soil sample log.

SITE SAMPLE NO.	GEL SAMPLE NO.	SAMPLE MOISTURE CONTENT ASTM D 2216 (%)	GRAIN SIZE			ATTERBURG LIMITS ASTM D 4318			SOIL CLASSIFICATION ASTM D 2487	DIRECT SHEAR	INTERF FRICT. ANGLE	COMPACTION ASTM D 698 (or) ASTM D 1557		PERMEABILITY ASTM D 2434[1] (or) ASTM D 5084[2]			PASS/ FAIL	ACUMUL. QUANT. PLACED (APPROX)
			PASSING NO. 200 SIEVE ASTM D 1140 (%)	ASTM D 422 SIEVE	ASTM D 422 HYDR.	LL (%)	PL (%)	PI		ASTM D3080 °(deg)	ASTM D5321 °(deg)	MAX. DRY UNIT WT. (pcf)	OPT. MOIST. CONT. (%)	DRY UNIT WT. (pcf)	MOIST. CONT. ASTM D 2216 (%)	HYDRAULIC COND'VITY (cm/sec)		(yd^3)
S-39				✓					SW-SM	53.0		126.4	7.0				P	
S-40				✓					SW-SM	53.9		129.7	7.1				P	
S-41				✓					SW-SM	49.8		123.6	8.1				P	
S-42				✓					SW-SM	48.4		129.2	7.5				P	
S-43				✓					SW-SM	53.5		127.1	7.8				P	
S-44				✓					SW-SM	53.5		126.6	7.5				P	
S-45				✓					SM	53.0		131.4	7.5				P	
S-46				✓					SW-SM	58.5		125.7	7.5				P	
S-47				✓					SW-SM	57.6		126.1	7.6				P	
S-48				✓					SW-SM	57.6		128.9	7.5				P	

COMMENTS:

NOTES: (1) HYDRAULIC CONDUCTIVITY DETERMINED AT A HYDRAULIC GRADIENT OF ____.

(2) HYDRAULIC CONDUCTIVITY DETERMINED AT AN EFFECTIVE CONFINING STRESS OF ____.

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

LABORATORY TEST SUMMARY For Select Fill

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 8 day July month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: Select Fill QA ID: DW

NOTE: Separate forms are required for each material type and source. All samples must have a site sample number and be recorded on the soil sample log.

SITE SAMPLE NO.	GEL SAMPLE NO.	SAMPLE MOISTURE CONTENT ASTM D 2216 (%)	GRAIN SIZE			ATTERBURG LIMITS ASTM D 4318			SOIL CLASSIFICATION ASTM D 2487	DIRECT SHEAR	INTERF FRICT. ANGLE	COMPACTION ASTM D 698 (or) ASTM D 1557		PERMEABILITY ASTM D 2434[1] (or) ASTM D 5084[2]			PASS/ FAIL	ACUMUL. QUANT. PLACED (APPROX)
			PASSING NO. 200 SIEVE ASTM D 1140 (%)	ASTM D 422 SIEVE	ASTM D 422 HYDR.	LL (%)	PL (%)	PI		ASTM D3080 °(deg)	ASTM D5321 °(deg)	MAX. DRY UNIT WT. (pcf)	OPT. MOIST. CONT. (%)	DRY UNIT WT. (pcf)	MOIST. CONT. ASTM D 2216 (%)	HYDRAULIC COND'VITY (cm/sec)		(yd³)
S-49				✓					SW-SM	48.4		125.9	7.5				P	
S-50				✓					SW-SM	51.1		127.4	8.2				P	
S-51				✓					SW-SM	51.6		128.4	7.7				P	
S-52				✓					SW-SM	51.7		126.4	7.5				P	
S-53				✓					SM	52.3		131.5	7.3				P	
S-54				✓					SW-SM	55.6		127.0	7.6				P	
S-55				✓					SM	50.6		130.8	7.8				P	
S-56				✓					SM	~~55.9~~		128.0	8.0				P	
S-57				✓					SW-SM	56.3		129.5	7.5				P	
S-58				✓					SM	46.0		127.0	7.5				P	

DIP 0° ROOTS

COMMENTS:

NOTES: (1) HYDRAULIC CONDUCTIVITY DETERMINED AT A HYDRAULIC GRADIENT OF ____.

(2) HYDRAULIC CONDUCTIVITY DETERMINED AT AN EFFECTIVE CONFINING STRESS OF ____.

GeoSyntec Consultants

TOWN OF HUNTINGTON

LABORATORY TEST SUMMARY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: R. SCHLEIDER — MATERIAL TYPE: SELECT FILL QA ID: DW

NOTE: Separate forms are required for each material type and source. All samples must have a site sample number and be recorded on the soil sample log.

SITE SAMPLE NO.	GEL SAMPLE NO.	SAMPLE MOISTURE CONTENT ASTM D 2216 (%)	GRAIN SIZE: PASSING NO. 200 SIEVE ASTM D 1140 (%)	GRAIN SIZE: ASTM D 422 SIEVE	GRAIN SIZE: ASTM D 422 HYDR.	ATTERBURG LIMITS ASTM D 4318: LL (%)	ATTERBURG LIMITS ASTM D 4318: PL (%)	ATTERBURG LIMITS ASTM D 4318: PI	SOIL CLASSIFICATION ASTM D 2487	DIRECT SHEAR ASTM D3080 °(deg)	INTERF FRICT. ANGLE ASTM D5321 °(deg)	COMPACTION ASTM D 698 (or) ASTM D 1557: MAX. DRY UNIT WT. (pcf)	COMPACTION ASTM D 698 (or) ASTM D 1557: OPT. MOIST. CONT. (%)	PERMEABILITY ASTM D 2434(1) (or) ASTM D 5084(2): DRY UNIT WT. (pcf)	PERMEABILITY ASTM D 2434(1) (or) ASTM D 5084(2): MOIST. CONT. ASTM D 2216 (%)	PERMEABILITY ASTM D 2434(1) (or) ASTM D 5084(2): HYDRAULIC COND'VITY (cm/sec)	PASS/ FAIL	ACUMUL. QUANT. PLACED (APPROX) (yd³)
S-59				✓					SW-SM	49.2		127.6	7.7				P	
S-60				✓					SW-SM	39.0		128.9	8.0				P	
S-61				✓					SW-SM	63.1		128.4	7.5				P	
S-62				✓					SW-SM	50.6		129.3	7.5				P	
S-63				✓					SM	62.9		132.0	7.0				P	
S-64				✓					SM	52.8		130.3	6.7				P	
S-65				✓					SM	58.5		132.5	6.7				P	
S-66				✓					SM	55.0		129.5	7.5				P	
S-67				✓					SM	58.1		129.8	7.5				P	
S-68				✓					SM	55.6		129.3	7.8				P	

COMMENTS:

NOTES: (1) HYDRAULIC CONDUCTIVITY DETERMINED AT A HYDRAULIC GRADIENT OF ____.

(2) HYDRAULIC CONDUCTIVITY DETERMINED AT AN EFFECTIVE CONFINING STRESS OF ____.

GeoSyntec Consultants

TOWN OF HUNTINGTON

LABORATORY TEST SUMMARY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: R. SCHLEIDER — MATERIAL TYPE: SELECT FILL QA ID: DW

NOTE: Separate forms are required for each material type and source. All samples must have a site sample number and be recorded on the soil sample log.

SITE SAMPLE NO.	GEL SAMPLE NO.	SAMPLE MOISTURE CONTENT ASTM D 2216 (%)	GRAIN SIZE: PASSING NO. 200 SIEVE ASTM D 1140 (%)	GRAIN SIZE: ASTM D 422 SIEVE	GRAIN SIZE: ASTM D 422 HYDR.	ATTERBURG LIMITS ASTM D 4318: LL (%)	ATTERBURG LIMITS ASTM D 4318: PL (%)	ATTERBURG LIMITS ASTM D 4318: PI	SOIL CLASSIFICATION ASTM D 2487	DIRECT SHEAR ASTM D3080 °(deg)	INTERF FRICT. ANGLE ASTM D5321 °(deg)	COMPACTION ASTM D 698 (or) ASTM D 1557: MAX. DRY UNIT WT. (pcf)	COMPACTION ASTM D 698 (or) ASTM D 1557: OPT. MOIST. CONT. (%)	PERMEABILITY ASTM D 2434[1] (or) ASTM D 5084[2]: DRY UNIT WT. (pcf)	PERMEABILITY ASTM D 2434[1] (or) ASTM D 5084[2]: MOIST. CONT. ASTM D 2216 (%)	PERMEABILITY ASTM D 2434[1] (or) ASTM D 5084[2]: HYDRAULIC COND'VITY (cm/sec)	PASS/ FAIL	ACUMUL. QUANT. PLACED (APPROX) (yd³)
S-69				✓					SM	48.5		129.7	8.0				P	
S-70				✓					SM	57.6		129.6	6.7				P	
S-71				✓					SM	55.7		130.6	6.8				P	
S-72				✓					SM	59.2		129.4	6.9				P	
S-73				✓					SM	61.8		130.8	6.8				P	
S-74				✓					SM	65.5		130.4	7.8				P	
S-75				✓					SW-SM	62.5		127.2	7.1				P	
S-76				✓					SW-SM	60.5		128.9	6.6				P	
S-77				✓					SM	56.1		129.7	6.7				P	
S-77A										62.9								

COMMENTS: * TESTED @ 80% COMPACTION

NOTES: (1) HYDRAULIC CONDUCTIVITY DETERMINED AT A HYDRAULIC GRADIENT OF ____.

(2) HYDRAULIC CONDUCTIVITY DETERMINED AT AN EFFECTIVE CONFINING STRESS OF ____.

GeoSyntec Consultants

TOWN OF HUNTINGTON

LABORATORY TEST SUMMARY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 3 day AUG month 95 year

SOURCE: R. SCHNEIDER — MATERIAL TYPE: SELECT FILL QA ID: PW

NOTE: Separate forms are required for each material type and source. All samples must have a site sample number and be recorded on the soil sample log.

SITE SAMPLE NO.	GEL SAMPLE NO.	SAMPLE MOISTURE CONTENT ASTM D 2216 (%)	GRAIN SIZE: PASSING NO. 200 SIEVE ASTM D 1140 (%)	GRAIN SIZE: ASTM D 422 SIEVE	GRAIN SIZE: ASTM D 422 HYDR.	ATTERBURG LIMITS ASTM D 4318: LL (%)	ATTERBURG LIMITS ASTM D 4318: PL (%)	ATTERBURG LIMITS ASTM D 4318: PI	SOIL CLASSIFICATION ASTM D 2487	DIRECT SHEAR ASTM D3080 °(deg)	INTERF FRICT. ANGLE ASTM D5321 °(deg)	COMPACTION ASTM D 698 (or) ASTM D 1557: MAX. DRY UNIT WT. (pcf)	COMPACTION ASTM D 698 (or) ASTM D 1557: OPT. MOIST. CONT. (%)	PERMEABILITY ASTM D 2434[1] (or) ASTM D 5084[2]: DRY UNIT WT. (pcf)	PERMEABILITY ASTM D 2434[1] (or) ASTM D 5084[2]: MOIST. CONT. ASTM D 2216 (%)	PERMEABILITY ASTM D 2434[1] (or) ASTM D 5084[2]: HYDRAULIC COND'VITY (cm/sec)	PASS/ FAIL	ACUMUL. QUANT. PLACED (APPROX) (yd³)
S-78				✓					SW-SM	60.5		131.0	6.5				P	
S-79				✓					SW-SM	47.2		130.0	6.5				P	
S-80				✓					SM	57.2#		129.5	7.7				P	
S-81				✓					SM	60.4		129.7	7.7				P	
S-82				✓					SM	48.4		131.3	6.8				P	
S-83				✓					SM	61.4		130.7	7.0				P	
S-84				✓					SM	50.0		129.2	7.0				P	
S-85				✓					SM	60.3		131.1	6.8				P	
S-86				✓					SM	60.8		131.3	6.9				P	
S-87				✓					SM	60.3		129.6	7.2				P	

COMMENTS:

NOTES: (1) HYDRAULIC CONDUCTIVITY DETERMINED AT A HYDRAULIC GRADIENT OF ____.

(2) HYDRAULIC CONDUCTIVITY DETERMINED AT AN EFFECTIVE CONFINING STRESS OF ____.

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GeoSyntec Consultants

TOWN OF HUNTINGTON

LABORATORY TEST SUMMARY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 3 day OCT month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: SELECT FILL QA ID: DW

NOTE: Separate forms are required for each material type and source. All samples must have a site sample number and be recorded on the soil sample log.

SITE SAMPLE NO.	GEL SAMPLE NO.	SAMPLE MOISTURE CONTENT ASTM D 2216 (%)	GRAIN SIZE: PASSING NO. 200 SIEVE ASTM D 1140 (%)	GRAIN SIZE: ASTM D 422 SIEVE	GRAIN SIZE: ASTM D 422 HYDR.	ATTERBURG LIMITS ASTM D 4318: LL (%)	PL (%)	PI	SOIL CLASSIFICATION ASTM D 2487	DIRECT SHEAR ASTM D3080 °(deg)	INTERF FRICT. ANGLE ASTM D5321 °(deg)	COMPACTION ASTM D 698 (or) ASTM D 1557: MAX. DRY UNIT WT. (pcf)	COMPACTION: OPT. MOIST. CONT. (%)	PERMEABILITY ASTM D 2434[1] (or) ASTM D 5084[2]: DRY UNIT WT. (pcf)	PERMEABILITY: MOIST. CONT. ASTM D 2216 (%)	PERMEABILITY: HYDRAULIC COND'VITY (cm/sec)	PASS/ FAIL	ACUMUL. QUANT. PLACED (APPROX) (yd^3)
S-88				✓					SM	51.6		130.9	7.0				P	
S-89									SM	54.6		132.7	6.7				P	
S-90									SM	57.6		132.2	6.6				P	
S-91									SM	68.0		131.2	7.4				P	
S-92				✓					SM	65.1		131.5	6.7				P	
S-93				✓					SM	56.3		131.3	7.1				P	
S-94				✓					SW-SM	60.6		130.1	6.5				P	
S-95				✓					SW-SM	67.1		128.5	7.6				P	
S-96				✓					SW-SM	64.3		126.9	7.7				P	
S-97				✓					SW-SM	63.4		127.2	6.5				P	

COMMENTS:

NOTES: (1) HYDRAULIC CONDUCTIVITY DETERMINED AT A HYDRAULIC GRADIENT OF ____.

(2) HYDRAULIC CONDUCTIVITY DETERMINED AT AN EFFECTIVE CONFINING STRESS OF ____.

GeoSyntec Consultants

TOWN OF HUNTINGTON

LABORATORY TEST SUMMARY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 1 day NOV month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: SELECT FILL QA ID: DAR

NOTE: Separate forms are required for each material type and source. All samples must have a site sample number and be recorded on the soil sample log.

SITE SAMPLE NO.	GEL SAMPLE NO.	SAMPLE MOISTURE CONTENT ASTM D 2216 (%)	GRAIN SIZE: PASSING NO. 200 SIEVE ASTM D 1140 (%)	GRAIN SIZE: ASTM D 422 SIEVE	GRAIN SIZE: ASTM D 422 HYDR.	ATTERBURG LIMITS ASTM D 4318: LL (%)	ATTERBURG LIMITS ASTM D 4318: PL (%)	ATTERBURG LIMITS ASTM D 4318: PI	SOIL CLASSIFICATION ASTM D 2487	DIRECT SHEAR ASTM D3080 °(deg)	INTERF FRICT. ANGLE ASTM D5321 °(deg)	COMPACTION ASTM D 698 (or) ASTM D 1557: MAX. DRY UNIT WT. (pcf)	COMPACTION ASTM D 698 (or) ASTM D 1557: OPT. MOIST. CONT. (%)	PERMEABILITY ASTM D 2434(1) (or) ASTM D 5084(2): DRY UNIT WT. (pcf)	PERMEABILITY ASTM D 2434(1) (or) ASTM D 5084(2): MOIST. CONT. ASTM D 2216 (%)	PERMEABILITY ASTM D 2434(1) (or) ASTM D 5084(2): HYDRAULIC COND'VITY (cm/sec)	PASS/ FAIL	ACUMUL. QUANT. PLACED (APPROX) (yd³)
S-98				✓					SM	60.1		130.1	7.0%				P	
S-99				✓					SM	62.3		128.8	6.8%				P	
S-100				✓					SM	65.7		130.2	7.6%				P	
S-101				✓					SW-SM	68.2		125.9	7.6%				P	
S-102				✓					SW-SM	61.7		127.5	7.8%				P	
S-103				✓					SM	66.7		129.0	7.0%				P	
S-104				✓					SM	62.3		129.9	7.3%				P	
S-105				✓					SW-SM	65.7		128.5	7.5%				P	
S-106				✓					SM	58.0		130.0	7.2%				P	
S-107				✓					SW-SM	65.5		125.8	7.7%				P	

COMMENTS:

NOTES: (1) HYDRAULIC CONDUCTIVITY DETERMINED AT A HYDRAULIC GRADIENT OF ____.

(2) HYDRAULIC CONDUCTIVITY DETERMINED AT AN EFFECTIVE CONFINING STRESS OF ____.

©GeoSyntec Consultants FILE NO. 2-22-LTS

GeoSyntec Consultants

TOWN OF HUNTINGTON

LABORATORY TEST SUMMARY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: R. SCHLEIDER — MATERIAL TYPE: SELECT FILL QA ID: DAR

NOTE: Separate forms are required for each material type and source. All samples must have a site sample number and be recorded on the soil sample log.

SITE SAMPLE NO.	GEL SAMPLE NO.	SAMPLE MOISTURE CONTENT ASTM D 2216 (%)	GRAIN SIZE: PASSING NO. 200 SIEVE ASTM D 1140 (%)	GRAIN SIZE: ASTM D 422 SIEVE	GRAIN SIZE: ASTM D 422 HYDR.	ATTERBURG LIMITS ASTM D 4318: LL (%)	ATTERBURG LIMITS ASTM D 4318: PL (%)	ATTERBURG LIMITS ASTM D 4318: PI	SOIL CLASSIFICATION ASTM D 2487	DIRECT SHEAR ASTM D3080 °(deg)	INTERF FRICT. ANGLE ASTM D5321 °(deg)	COMPACTION ASTM D 698 (or) ASTM D 1557: MAX. DRY UNIT WT. (pcf)	COMPACTION ASTM D 698 (or) ASTM D 1557: OPT. MOIST. CONT. (%)	PERMEABILITY ASTM D 2434(1) (or) ASTM D 5084(2): DRY UNIT WT. (pcf)	PERMEABILITY ASTM D 2434(1) (or) ASTM D 5084(2): MOIST. CONT. ASTM D 2216 (%)	PERMEABILITY ASTM D 2434(1) (or) ASTM D 5084(2): HYDRAULIC COND'VITY (cm/sec)	PASS/ FAIL	ACUMUL. QUANT. PLACED (APPROX) (yd³)
S-108				✓					SW-SM	64		127.2	7.6					
S-109				✓					SM	63		130.1	7.6					
S-110				✓					SM	65		128.7	7.0					
S-111				✓					SW-SM	52		124.9	7.0					
S-112				✓					SW-SM	59		126.8	7.7					
S-113				✓					SW-SM	63		124.8	7.5					
S-114				✓					SW-SM	65		127.6	8.1					
S-115				✓					SM	61		128.9	7.1					
S-116				✓					SW-SM	65		124.7	7.0					
S-117				✓					SM	59		126.4	7.5					

COMMENTS:

NOTES: (1) HYDRAULIC CONDUCTIVITY DETERMINED AT A HYDRAULIC GRADIENT OF ____.

(2) HYDRAULIC CONDUCTIVITY DETERMINED AT AN EFFECTIVE CONFINING STRESS OF ____.

GeoSyntec Consultants

TOWN OF HUNTINGTON

LABORATORY TEST SUMMARY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: R. SCHNEIDER — MATERIAL TYPE: ALT. SELECT QA ID: D/R

NOTE: Separate forms are required for each material type and source. All samples must have a site sample number and be recorded on the soil sample log.

SITE SAMPLE NO.	GEL SAMPLE NO.	SAMPLE MOISTURE CONTENT ASTM D 2216 (%)	GRAIN SIZE			ATTERBURG LIMITS ASTM D 4318			SOIL CLASSIFICATION ASTM D 2487	DIRECT SHEAR	INTERF FRICT. ANGLE	COMPACTION ASTM D 698 (or) ASTM D 1557		PERMEABILITY ASTM D 2434[1] (or) ASTM D 5084[2]			PASS/ FAIL	ACUMUL. QUANT. PLACED (APPROX)
			PASSING NO. 200 SIEVE ASTM D 1140 (%)	ASTM D 422 SIEVE	ASTM D 422 HYDR.	LL (%)	PL (%)	PI		ASTM D3080 °(deg)	ASTM D5321 °(deg)	MAX. DRY UNIT WT. (pcf)	OPT. MOIST. CONT. (%)	DRY UNIT WT. (pcf)	MOIST. CONT. ASTM D 2216 (%)	HYDRAULIC COND'VITY (cm/sec)		(yd³)
S-118				✓					SW-SM	54	5	124.7	7.1					
S-119				✓					SM	63		129.7	7.3					
S-120				✓					SW-SM	54		124.8	7.0					
S-121				✓					SW-SM	64		130.3	7.5					
S-122				✓					SM	66		129.1	7.2					
S-123				✓					SW-SM	58		126.5	7.7					
S-124				✓					SW-SM	66		129.9	7.4					
S-125				✓					SW-SM	67		130.9	6.8					
S-126				✓					SW-SM	62		130.5	7.5					
S-127				✓					SM	66		129.0	7.2					

COMMENTS:

NOTES: (1) HYDRAULIC CONDUCTIVITY DETERMINED AT A HYDRAULIC GRADIENT OF ____.

(2) HYDRAULIC CONDUCTIVITY DETERMINED AT AN EFFECTIVE-CONFINING STRESS OF ____.

GeoSyntec Consultants

TOWN OF HUNTINGTON

LABORATORY TEST SUMMARY

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 QA ID: 21R

NOTE: Separate forms are required for each material type and source. All samples must have a site sample number and be recorded on the soil sample log.

SITE SAMPLE NO.	GEL SAMPLE NO.	SAMPLE MOISTURE CONTENT ASTM D 2216 (%)	GRAIN SIZE: PASSING NO. 200 SIEVE ASTM D 1140 (%)	GRAIN SIZE: ASTM D 422 SIEVE	GRAIN SIZE: ASTM D 422 HYDR.	ATTERBURG LIMITS ASTM D 4318: LL (%)	ATTERBURG LIMITS ASTM D 4318: PL (%)	ATTERBURG LIMITS ASTM D 4318: PI	SOIL CLASSIFICATION ASTM D 2487	DIRECT SHEAR ASTM D3080 °(deg)	INTERF FRICT. ANGLE ASTM D5321 °(deg)	COMPACTION ASTM D 698 (or) ASTM D 1557: MAX. DRY UNIT WT. (pcf)	COMPACTION ASTM D 698 (or) ASTM D 1557: OPT. MOIST. CONT. (%)	PERMEABILITY ASTM D 2434(1) (or) ASTM D 5084(2): DRY UNIT WT. (pcf)	PERMEABILITY ASTM D 2434(1) (or) ASTM D 5084(2): MOIST. CONT. ASTM D 2216 (%)	PERMEABILITY ASTM D 2434(1) (or) ASTM D 5084(2): HYDRAULIC COND'VITY (cm/sec)	PASS/ FAIL	ACUMUL. QUANT. PLACED (APPROX) (yd³)
S-128				✓					SW-SM	62		130.5	6.8					
S-129				✓					SW-SM	66		130.2	7.5					
S-130				✓					SW-SM	66		130.0	7.6					
S-131				✓					SW-SM	64		129.0	7.6					
S-132				✓					SW-SM	68		128.5	7.7					
S-133				✓					SW-SM	59		131.0	6.9					
S-134				✓					SM	63		129.0	7.4					
S-135				✓					SW-SM	66		130.2	6.8					
S-136				✓					SM	65		128.1	7.6					
S-137				✓					SM	66		128.5	7.5					

COMMENTS:

NOTES: (1) HYDRAULIC CONDUCTIVITY DETERMINED AT A HYDRAULIC GRADIENT OF ____.

(2) HYDRAULIC CONDUCTIVITY DETERMINED AT AN EFFECTIVE CONFINING STRESS OF ____.

GeoSyntec Consultants

TOWN OF HUNTINGTON

LABORATORY TEST SUMMARY

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

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALT. SELECT QA ID: D/K

NOTE: Separate forms are required for each material type and source. All samples must have a site sample number and be recorded on the soil sample log.

SITE SAMPLE NO.	GEL SAMPLE NO.	SAMPLE MOISTURE CONTENT ASTM D 2216 (%)	GRAIN SIZE: PASSING NO. 200 SIEVE ASTM D 1140 (%)	GRAIN SIZE: ASTM D 422 SIEVE	GRAIN SIZE: ASTM D 422 HYDR.	ATTERBURG LIMITS ASTM D 4318: LL (%)	ATTERBURG LIMITS ASTM D 4318: PL (%)	ATTERBURG LIMITS ASTM D 4318: PI	SOIL CLASSIFICATION ASTM D 2487	DIRECT SHEAR ASTM D3080 °(deg)	INTERF FRICT. ANGLE ASTM D5321 °(deg)	COMPACTION ASTM D 698 (or) ASTM D 1557: MAX. DRY UNIT WT. (pcf)	COMPACTION ASTM D 698 (or) ASTM D 1557: OPT. MOIST. CONT. (%)	PERMEABILITY ASTM D 2434(1) (or) ASTM D 5084(2): DRY UNIT WT. (pcf)	PERMEABILITY ASTM D 2434(1) (or) ASTM D 5084(2): MOIST. CONT. ASTM D 2216 (%)	PERMEABILITY ASTM D 2434(1) (or) ASTM D 5084(2): HYDRAULIC COND'VITY (cm/sec)	PASS/ FAIL	ACUMUL. QUANT. PLACED (APPROX) (yd³)
S-138				✓					SM	55		127.9	7.8	~~127.9~~	~~7.8~~			
S-139				✓					SM	64		130.0	7.4	~~130.0~~	~~7.4~~			
S-140				✓					SW-SM	56		128.8	8.2	~~128.8~~	~~8.2~~			
S-141				✓					SM	61		130.1	7.5	~~130.1~~	~~7.5~~			
S-142				✓					SM	57		129.0	8.2	~~129.0~~	~~8.2~~			
S-143				✓					SM	56		130.4	7.5	~~130.4~~	~~7.5~~			
S-144				✓					SM	61		129.5	7.7	~~129.5~~	~~7.7~~			
S-145				✓					SW-SM	60		130.6	7.5	~~130.6~~	~~7.5~~			
S-146				✓					SW-SM	67		129.5	8.1	~~129.5~~	~~8.1~~			
S-147				✓					SW-SM	63		128.9	8.1	~~128.9~~	~~8.1~~			

COMMENTS:

NOTES: (1) HYDRAULIC CONDUCTIVITY DETERMINED AT A HYDRAULIC GRADIENT OF ____.

(2) HYDRAULIC CONDUCTIVITY DETERMINED AT AN EFFECTIVE CONFINING STRESS OF ____.

GeoSyntec Consultants

TOWN OF HUNTINGTON

LABORATORY TEST SUMMARY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALT. SELECT QA ID: 7TR

NOTE: Separate forms are required for each material type and source. All samples must have a site sample number and be recorded on the soil sample log.

SITE SAMPLE NO.	GEL SAMPLE NO.	SAMPLE MOISTURE CONTENT ASTM D 2216 (%)	GRAIN SIZE			ATTERBURG LIMITS ASTM D 4318			SOIL CLASSIFICATION ASTM D 2487	DIRECT SHEAR	INTERF FRICT. ANGLE	COMPACTION ASTM D 698 (or) ASTM D 1557		PERMEABILITY ASTM D 2434[1] (or) ASTM D 5084[2]			PASS/ FAIL	ACUMUL. QUANT. PLACED (APPROX)
			PASSING NO. 200 SIEVE ASTM D 1140 (%)	ASTM D 422 SIEVE	ASTM D 422 HYDR.	LL (%)	PL (%)	PI		ASTM D3080 °(deg)	ASTM D5321 °(deg)	MAX. DRY UNIT WT. (pcf)	OPT. MOIST. CONT. (%)	DRY UNIT WT. (pcf)	MOIST. CONT. ASTM D 2216 (%)	HYDRAULIC CONDUCTIVITY (cm/sec)		(yd³)
S-148				✓					SW-SM	60		128.4	7.0					
S-149				✓					SW-SM	60		128.8	7.8					
S-150				✓					SW-SM	61		128.0	7.0					
S-151				✓					SM	60		128.4	7.6					
S-152				✓					SM	60		128.2	6.9					
S-153				✓					SM	58		128.5	7.7					
S-154				✓					SM	60		127.9	7.4					
S-155				✓					SM	57		128.2	7.8					
S-156				✓					SM	61		128.4	6.8					
S-157				✓					SM	56		128.4	7.6					

COMMENTS: ____

NOTES: (1) HYDRAULIC CONDUCTIVITY DETERMINED AT A HYDRAULIC GRADIENT OF ____.

(2) HYDRAULIC CONDUCTIVITY DETERMINED AT AN EFFECTIVE CONFINING STRESS OF ____.

©GeoSyntec Consultants FILE NO. 2-22-LTS

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

LABORATORY TEST SUMMARY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: R. SCHLEIDER — MATERIAL TYPE: SELECT FILL QA ID: DWW

NOTE: Separate forms are required for each material type and source. All samples must have a site sample number and be recorded on the soil sample log.

SITE SAMPLE NO.	GEL SAMPLE NO.	SAMPLE MOISTURE CONTENT ASTM D 2216 (%)	GRAIN SIZE: PASSING NO. 200 SIEVE ASTM D 1140 (%)	GRAIN SIZE: ASTM D 422 SIEVE	GRAIN SIZE: ASTM D 422 HYDR.	ATTERBURG LIMITS ASTM D 4318: LL (%)	ATTERBURG LIMITS ASTM D 4318: PL (%)	ATTERBURG LIMITS ASTM D 4318: PI	SOIL CLASSIFICATION ASTM D 2487	DIRECT SHEAR ASTM D3080 °(deg)	INTERF FRICT. ANGLE ASTM D5321 °(deg)	COMPACTION ASTM D 698 (or) ASTM D 1557: MAX. DRY UNIT WT. (pcf)	COMPACTION ASTM D 698 (or) ASTM D 1557: OPT. MOIST. CONT. (%)	PERMEABILITY ASTM D 2434(1) (or) ASTM D 5084(2): DRY UNIT WT. (pcf)	PERMEABILITY ASTM D 2434(1) (or) ASTM D 5084(2): MOIST. CONT. ASTM D 2216 (%)	PERMEABILITY ASTM D 2434(1) (or) ASTM D 5084(2): HYDRAULIC COND'VITY (cm/sec)	PASS/ FAIL	ACUMUL. QUANT. PLACED (APPROX) (yd³)
S-158				✓					SM	53		128.0	7.0					
S-159				✓					SM	55		128.0	7.0					
S-160				✓					SM	54		128.3	7.6					
S-161				✓					SM	47		~~128.0~~						
S-162				✓					SM	46								

COMMENTS: ____

NOTES: (1) HYDRAULIC CONDUCTIVITY DETERMINED AT A HYDRAULIC GRADIENT OF ____.

(2) HYDRAULIC CONDUCTIVITY DETERMINED AT AN EFFECTIVE CONFINING STRESS OF ____.

GeoSyntec Consultants

TOWN OF HUNTINGTON

LABORATORY TEST SUMMARY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: R. SCHLEIDER — MATERIAL TYPE: SELECT FILL QA ID: DW

NOTE: Separate forms are required for each material type and source. All samples must have a site sample number and be recorded on the soil sample log.

SITE SAMPLE NO.	GEL SAMPLE NO.	SAMPLE MOISTURE CONTENT ASTM D 2216 (%)	GRAIN SIZE: PASSING NO. 200 SIEVE ASTM D 1140 (%)	GRAIN SIZE: ASTM D 422 SIEVE	GRAIN SIZE: ASTM D 422 HYDR.	ATTERBURG LIMITS ASTM D 4318: LL (%)	ATTERBURG LIMITS ASTM D 4318: PL (%)	ATTERBURG LIMITS ASTM D 4318: PI	SOIL CLASSIFICATION ASTM D 2487	DIRECT SHEAR ASTM D3080 °(deg)	INTERF FRICT. ANGLE ASTM D5321 °(deg)	COMPACTION ASTM D 698 (or) ASTM D 1557: MAX. DRY UNIT WT. (pcf)	COMPACTION ASTM D 698 (or) ASTM D 1557: OPT. MOIST. CONT. (%)	PERMEABILITY ASTM D 2434(1) (or) ASTM D 5084(2): DRY UNIT WT. (pcf)	PERMEABILITY ASTM D 2434(1) (or) ASTM D 5084(2): MOIST. CONT. ASTM D 2216 (%)	PERMEABILITY ASTM D 2434(1) (or) ASTM D 5084(2): HYDRAULIC COND'VITY (cm/sec)	PASS/ FAIL	ACUMUL. QUANT. PLACED (APPROX) (yd^3)
*S-67-A										59.8								
*S68-A										50.4								
*S69-A										47.6								
*S-70-A										51.7								
*S-71-A										57.8								

COMMENTS:

NOTES: (1) HYDRAULIC CONDUCTIVITY DETERMINED AT A HYDRAULIC GRADIENT OF ____.

(2) HYDRAULIC CONDUCTIVITY DETERMINED AT AN EFFECTIVE CONFINING STRESS OF ____.

* SAMPLES TESTED AT 85% COMPACTION
85% COMPACTION APPROVED BY C.D.M / LITTLEPORTS

SUB APPENDIX I–2

LABORATORY TEST RESULTS

SLACKE TEST BORING, INC.

Subsurface Soils & Foundation Explorations

ONE VILLAGE PLAZA, P.O. BOX 64, KINGS PARK, NEW YORK 11754 • (516) 544-0404 • FAX 269-5334

November 22, 1994

Mr. Steve Barrett
Site CQA Manager - Field Services
GeoSyntec Consultants
Town of Huntington Resource Recovery
Town Line Road
Town of Huntington, New York 11743

RE: Huntington Landfill/Sample pu 11/17/94

SIEVE SIZE	A.S.T.M. C-136	PERCENT PASSING	COMMON FILL SPECIFICATIONS	*C-1
4		67.3		
20		49.3		
40		26.1	Max 75	
60		8.9		
200		2.0	Max 20	
MAXIMUM DENSITY		115.0#/cu ft.	A.S.T.M. D-1557	
OPTIMUM MOISTURE		11.3%		

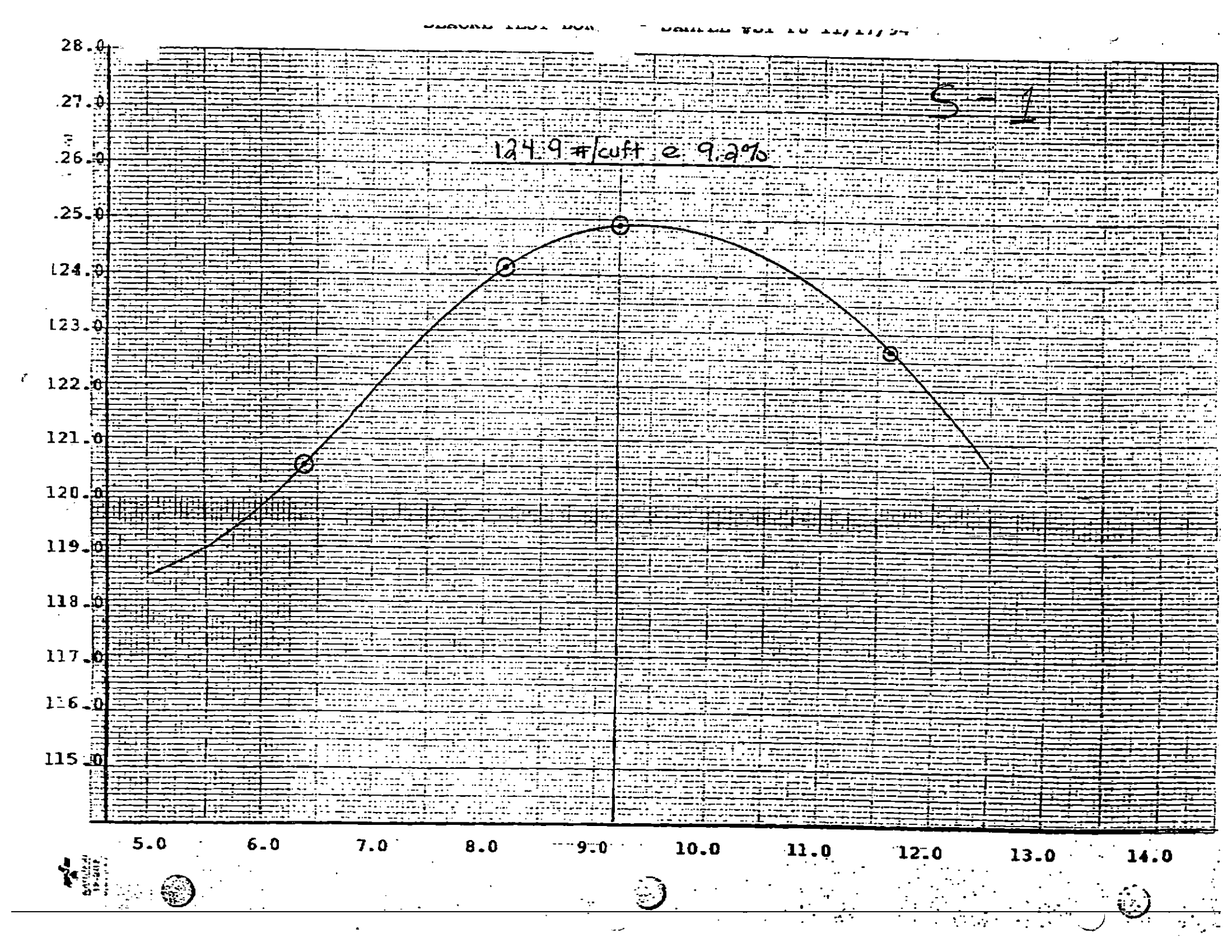
SIEVE SIZE	A.S.T.M. C-136	PERCENT PASSING	SELECT FILL SPECIFICATIONS	*S-1
3/8		98.2	100	
4		92.9	80-95	
40		36.7	25-45	
100		3.7*	5-15	
200		1.9	0-8	
MAXIMUM DENSITY		124.9#/cu ft.	A.S.T.M. D-1557	
OPTIMUM MOISTURE		9.2%		

*NOTE - Revised 12/8/94

Respectfully submitted,
SLACKE TEST BORING, INC.

Sally Ann Slacke

Sally Ann Slacke, President


S-1
124.9 #/cuft @ 9.2%
28.0
27.0
26.0
25.0
124.0
123.0
122.0
121.0
120.0
119.0
118.0
117.0
116.0
115.0
5.0
6.0
7.0
8.0
9.0
10.0
11.0
12.0
13.0
14.0

SLACKE TEST BORING, INC.

Subsurface Soils & Foundation Explorations

65 RUMFORD ROAD, P.O. BOX 64, KINGS PARK, NEW YORK 11754 • (516) 265-1666 • FAX 265-5443

November 28, 1994

Mr. Steve Barrett
Site CQA Manager - Field Services
GeoSyntec Consultants
Town of Huntington Resource Recovery
Town Line Road
Town of Huntington, New York 11743

RE: Huntington Landfill/Sample pu 11/28/94

A.S.T.M. C-136

SIEVE SIZE	PERCENT PASSING	SELECT FILL SPECIFICATIONS
3/8"	98.0*	100
4	92.0	80-95
40	42.4	25-45
100	5.2	5-15
200	3.2	0-8

SAMPLE #S-5*

*NOTE - Revised 12/8/94

Respectfully submitted,

SLACKE TEST BORING, INC.

Sally Ann Slacke

Sally Ann Slacke
President

SAS/lb

SLACKE TEST BORING, INC.

Subsurface Soils & Foundation Explorations

ONE VILLAGE PLAZA, P.O. BOX 64, KINGS PARK, NEW YORK 11754 • (516) 544-0404 • FAX 269-5334

November 29, 1994

Mr. Steve Barrett
Site CQA Manager - Field Services
GeoSyntec Consultants
Town of Huntington Resourse Recovery
Town Line Road
Town of Huntington, New York 11743

RE: Huntington Landfill/Sample pu 11/29/94

SIEVE SIZE	PERCENT PASSING	SELECT FILL SPECIFICATIONS
3/8"	100.00	100
4	94.8	80-95
40	40.7	25-45
100	7.4	5-15
200	1.8	0-8

A.S.T.M. C-136

MAXIMUM DENSITY - 122.9#/cu ft. A.S.T.M. D-1557

OPTIMUM MOISTURE 7.4%

SAMPLE #S-6*

*NOTE - Revised 12/8/94

Respectfully submitted,

SLACKE TEST BORING, INC.

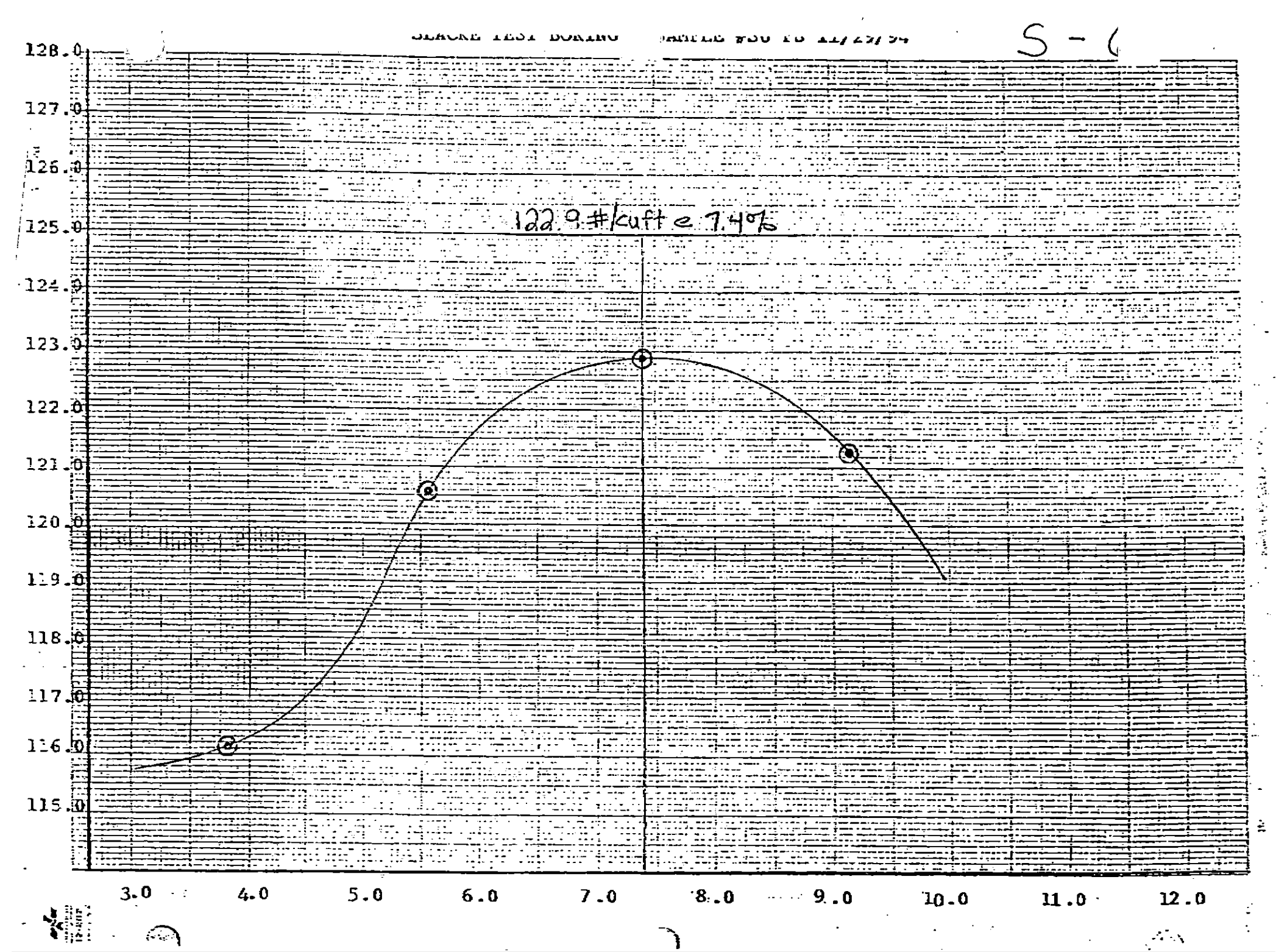
Sally Ann Slacke

Sally Ann Slacke
President

SAS/lb

SLACKE TEST BORING SAMPLE #30 TO 11/29/94

S-6



GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS

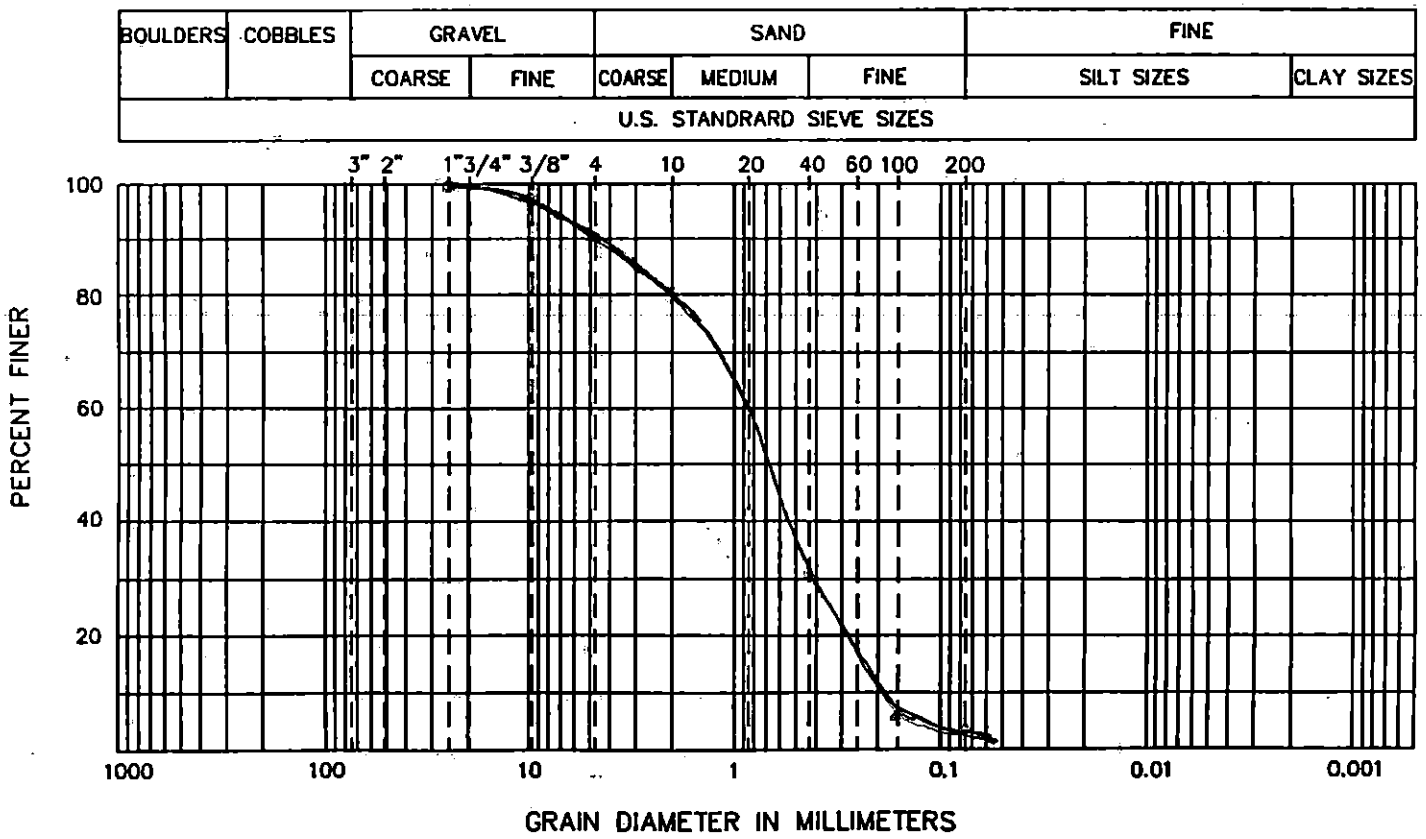
(ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 31 day JAN month 95 year

SOURCE: SCHLEIDER MATERIAL TYPE: SELECT — SAMPLE NO.: S-10 QA ID: FVC



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
3/4-in.	
1/2-in.	
3/8-in.	98.2
NO. 4	90.8
NO. 10	80.3
NO. 20	
NO. 40	29.8
NO. 60	
NO. 100	6.3
NO. 200	4.0

SOIL CLASSIFICATION (ASTM D 2487): _____

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 12 month 94 year

SOURCE: SOIL IDEA MATERIAL TYPE: SELECT SAMPLE NO.: S-11 QA ID: F.V.C.

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 W_W 729.0 (grams)	413.3	
WT. OF TARE W_T 315.7 (grams)		
WT. OF DRY SAMPLE W_D 699.1 (grams)	383.4	

29.9 ÷ M = 8.0%

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1/2		0	0	100	
3/8		7.0	1.8	98.2	100
4		26.9	7.0	91.2	90-95
10		38.6	10.1	81.1	—
40		179.7	47.0	34.1	25-45
100		103.8	27.3	6.8	5-15
200		19.4	2.5	4.3	0-8
Pan		16.6	4.3	0	
		382-	100-		

%FINER = 100 − Σ% RETAINED

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

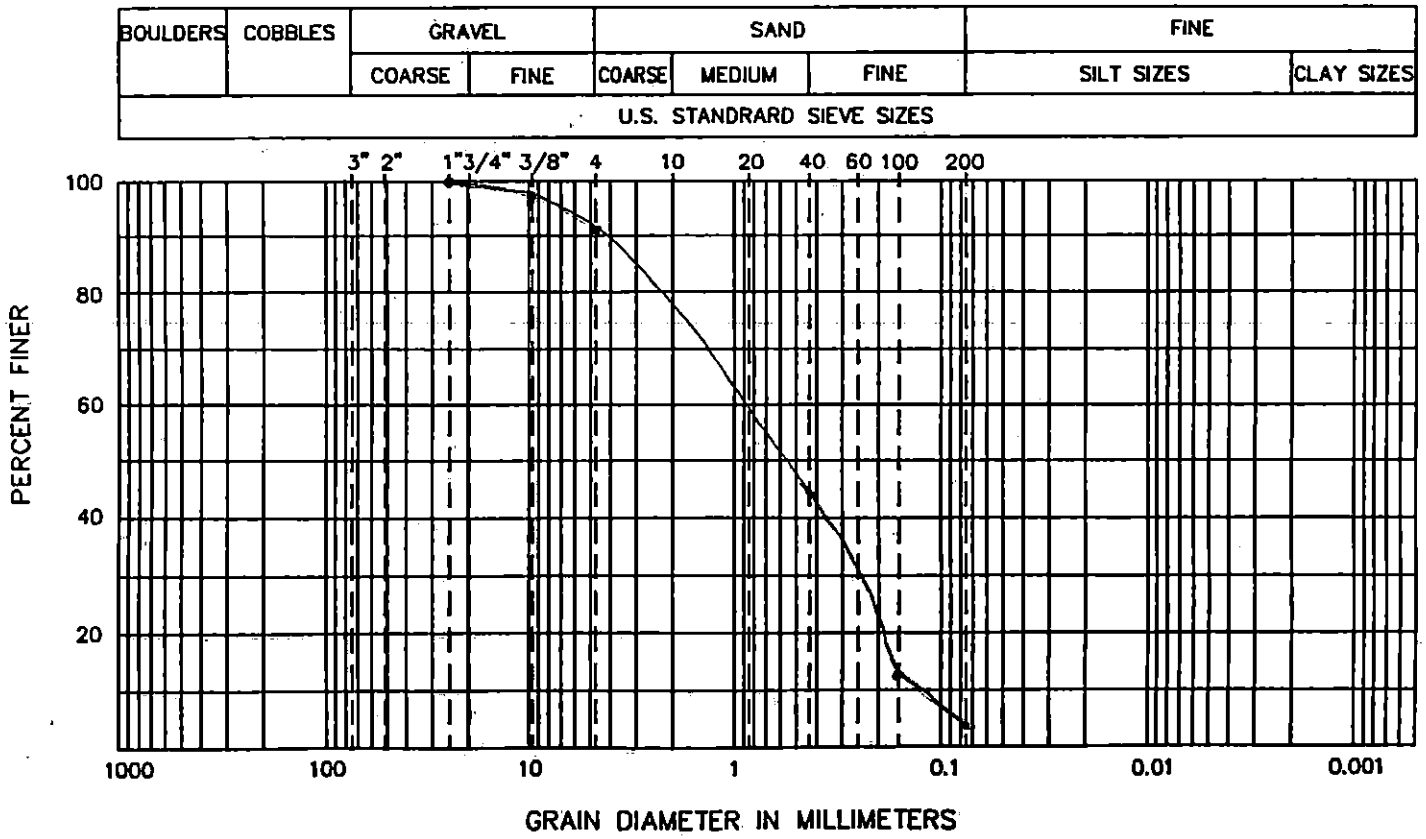
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 01 day 02 month 95 year

SOURCE: SCHNEIDER MATERIAL TYPE: SELECT - FILL SAMPLE NO.: S-11 QA ID: FYC



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
3/4-in.	
1/2-in.	
3/8-in.	98.2
NO. 4	91.2
NO. 10	81.1
NO. 20	
NO. 40	34.1
NO. 60	6
NO. 100	6.8
NO. 200	4.3

SOIL CLASSIFICATION (ASTM D 2487): _____

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 JAN month 95 year

SOURCE: SCHLEIDER MATERIAL TYPE: SELECT FILL SAMPLE NO.: S-12 QA ID: FVC

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)	491.8	460.7
WT. OF TARE	(grams)	19.0	19.0
WT. OF DRY SAMPLE	(grams)	472.8	441.7

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
3/8		0	0	100	100
# 4		11.5	2.4	97.6	80-95
# 40		265.0	56.0	41.6	25-45
# 100		153.1	32.4	9.2	5-15
# 200		11.8	2.5	6.7	0-8

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

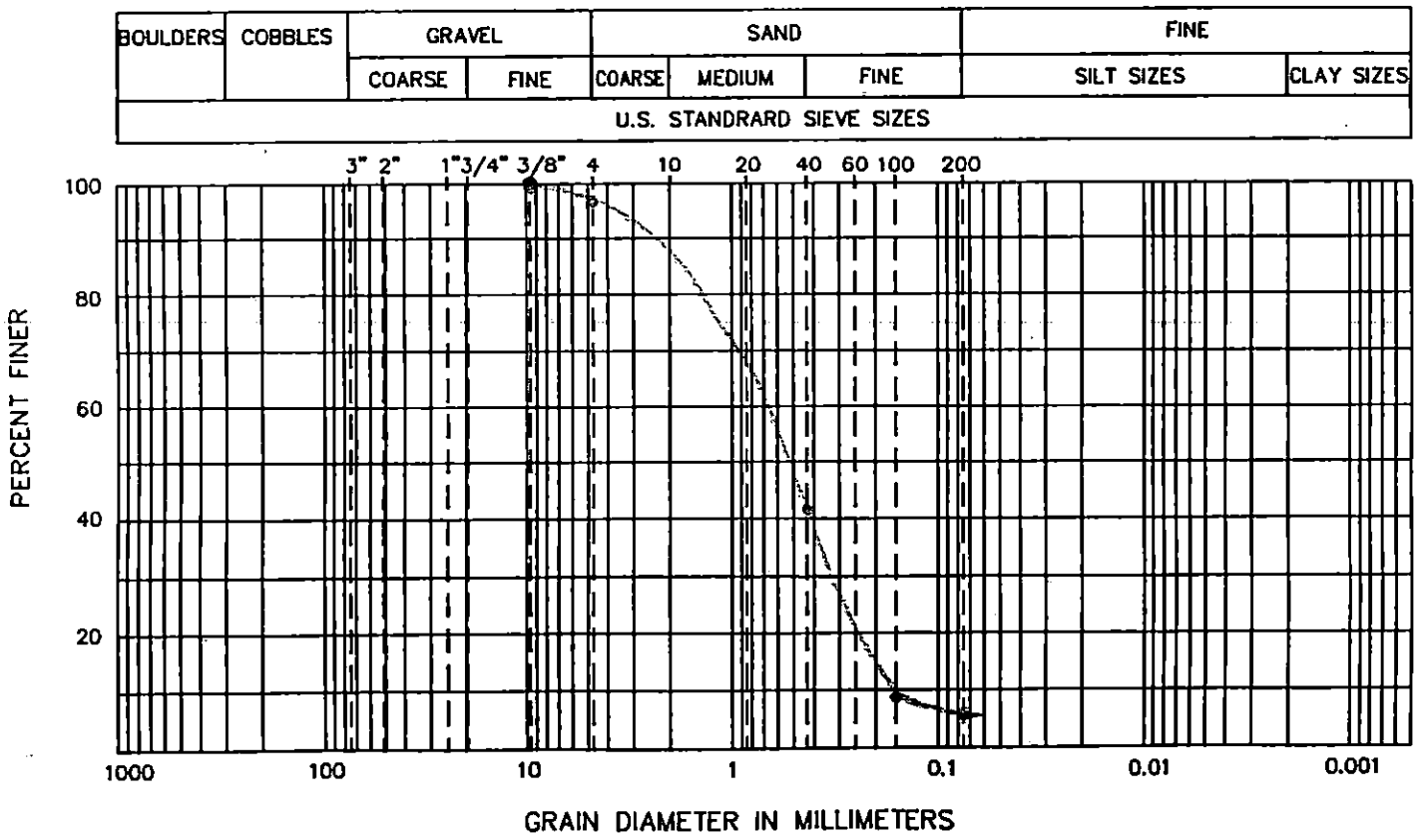
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: SCHNEIDER MATERIAL TYPE: SELECT FILL SAMPLE NO.: S-12 QA ID: JJC/FBC



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.	-
1/2-in.	-
3/8-in.	100
NO. 4	97.6
NO. 10	-
NO. 20	-
NO. 40	41.6
NO. 60	-
NO. 100	9.2
NO. 200	6.7

SOIL CLASSIFICATION (ASTM D 2487): _____

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 Feb month 95 year

SOURCE: R. SCHLEGER STOCKPILED MATERIAL TYPE: SELECT FILL SAMPLE NO.: S-13 QA ID: JJZ

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)	1048.92	949.49
WT. OF TARE	(grams)	18.80	18.80
WT. OF DRY SAMPLE	(grams)	1030.12	930.69

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
3/8"		1.89	0.2	99.8	100
4	4.75	56.10	5.4	94.6	80-95
10	2.00	173.44	16.8	83.2	
40	.425	619.42	60.1	39.9	25-45
100	.150	900.10	87.4	12.6	5-15
200	.075	928.70	90.2	9.8	0-8
PAN					

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

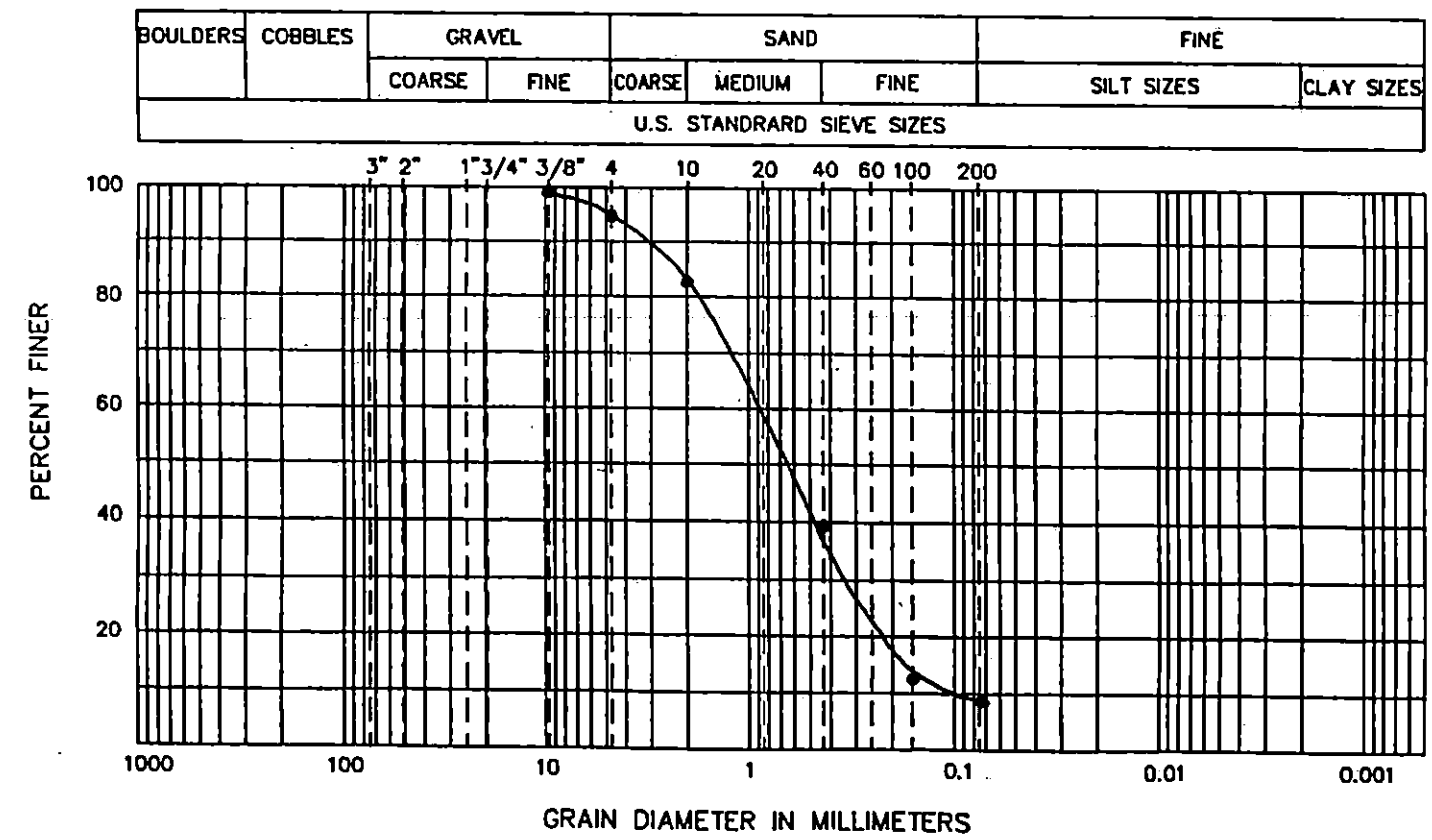
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: R. SCHNEIDER STOCKYARD MATERIAL TYPE: SELECT FILL SAMPLE NO.: S-13 QA ID: JTZ



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.	
1/2-in.	
3/8-in.	99.8
NO. 4	94.6
NO. 10	83.2
NO. 20	–
NO. 40	39.9
NO. 60	–
NO. 100	12.6
NO. 200	9.8

SOIL CLASSIFICATION (ASTM D 2487): _____

GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: 24 March '95

PROJECT NO: G03700 TASK NO.: 01

DESCRIPTI CALCULATE % FOREIGN OBJECTS

DATE: 21 day March month 1995 year

SOURCE: B IN "ALTERNATE SELECT FILL"

SAMPLE NO.: S-14 QA ID: GD

SOIL SAMP Sample S-14:

TOTAL DRY WEIGHT = 1702.71 g

ASPHALT = 96.09 g = 5.6%

REMAINING FOREIGN OBJECTS = 14.09 g = 8%

(WOOD, BRICK, CERAMIC, GLASS)

	NO. 10	NO. 4	3/4-in.
DIAMETER OF	200	500	1500
APPROXIMATE			

	BEFORE WASH	AFTER WASH
WT. OF DRY	159.51	1924
WT. OF TARE	56.8	446.51
WT. OF DRY	102.71	1477.49

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"		—	—	100	
3/4		—	—	100	
3/8		108.76	6.39	93.61	
4		305.98	17.97	82.03	
10		517.17	30.37	69.63	
20		770.22	45.23	54.77	
40		1100.23	64.62	35.38	
60		1325.65	77.86	22.14	
100		1423.61	83.61	16.39	
200		1469.01	86.27	13.73	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

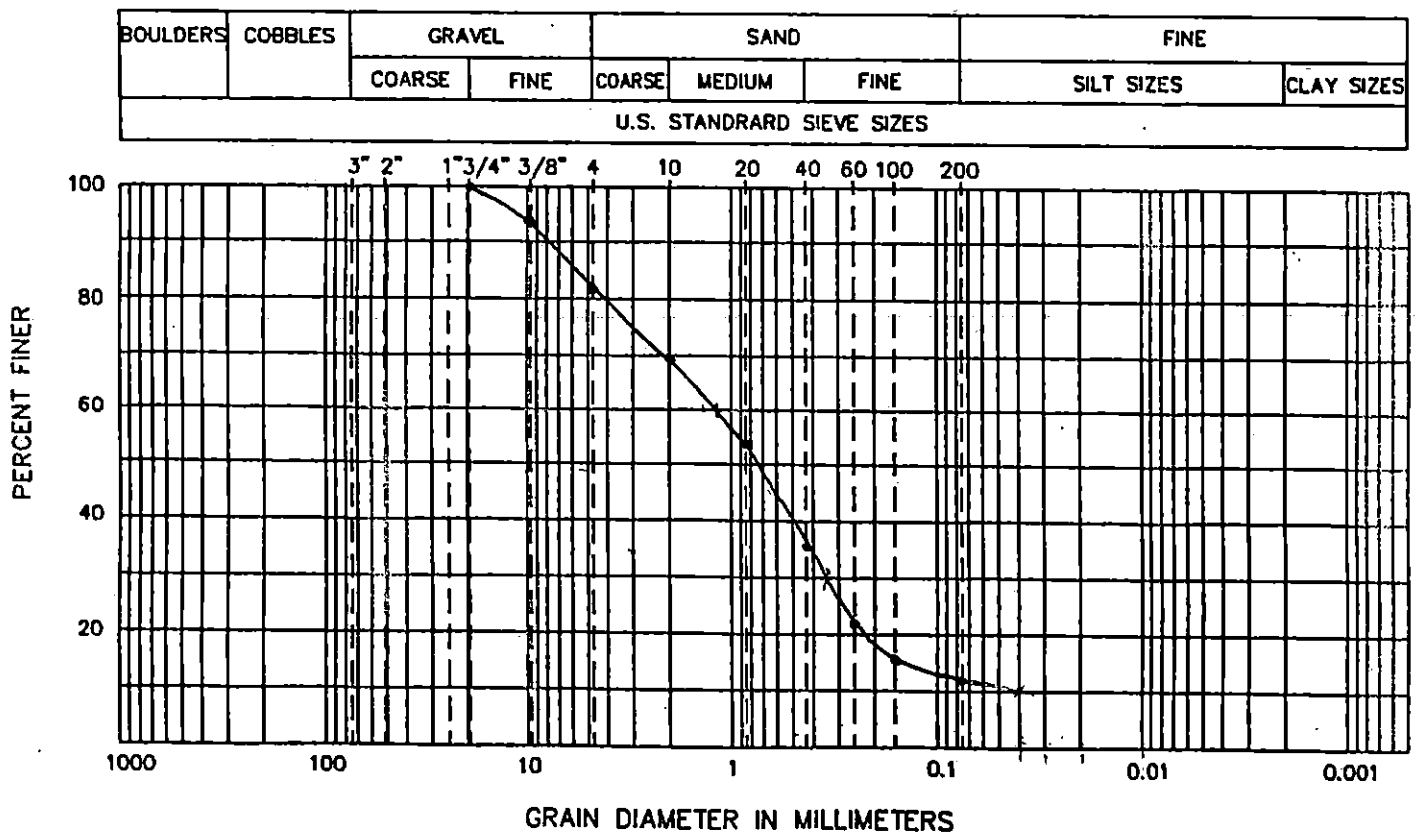
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 21 day March month 1995 year

SOURCE: R. Schlieder — MATERIAL TYPE: Alt. Select Fill — SAMPLE NO.: S-14 — QA ID: GD



CURVE COEFFICIENTS

(C_u) 32.5

(C_c) ~~0.02~~ 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.	-
1/2-in.	
3/8-in.	93.61
NO. 4	82.03
NO. 10	69.63
NO. 20	54.77
NO. 40	35.88
NO. 60	22.14
NO. 100	16.39
NO. 200	13.73

SOIL CLASSIFICATION (ASTM D 2487): ~~SW-SM~~ SM Well-graded sand w/silt & gravel

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHODS A, B, AND 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 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-14 QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS LESS THAN 20%.
ALL MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS DISCARDED.
USE OVERSIZE CORRECTION IF MORE THAN 5% IS DISCARDED ACCORDING TO ASTM D 4718.
USE A 4-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 25 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	6395	6433	6460	6395	
B	WT. OF MOLD	(grams)	4330	4330	4330	4330	
C	WT. OF SOIL = A - B	(grams)	2065	2103	2130	2065	
D	WET UNIT WT.(1) = C X 0.066	(pcf)	136.3	138.8	140.6	136.3	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	127.3	128.9	127.5	120.8	

NOTE: (1) IF CALIBRATED MOLD OF 1/30 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 = (30 / 453.6) = 0.066). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/30 ± 0.0005 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	7.8	7.6	7.9	
G	WT. OF WET SOIL & TARE	(grams)	390.9	531.5	586.1	736.0	
H	WT. OF DRY SOIL & TARE	(grams)	365.2	493.9	532.5	653.6	
I	WT. OF WATER = G - H	(grams)	25.2	37.6	53.6	82.4	
J	WT. DRY SOIL = H - F	(grams)	357.4	486.1	524.9	645.7	
K	MOISTURE CONTENT = (I/J) X 100	(%)	7.1%	7.7%	10.2%	12.8%	

GeoSyntec Consultants

TOWN OF HUNTINGTON

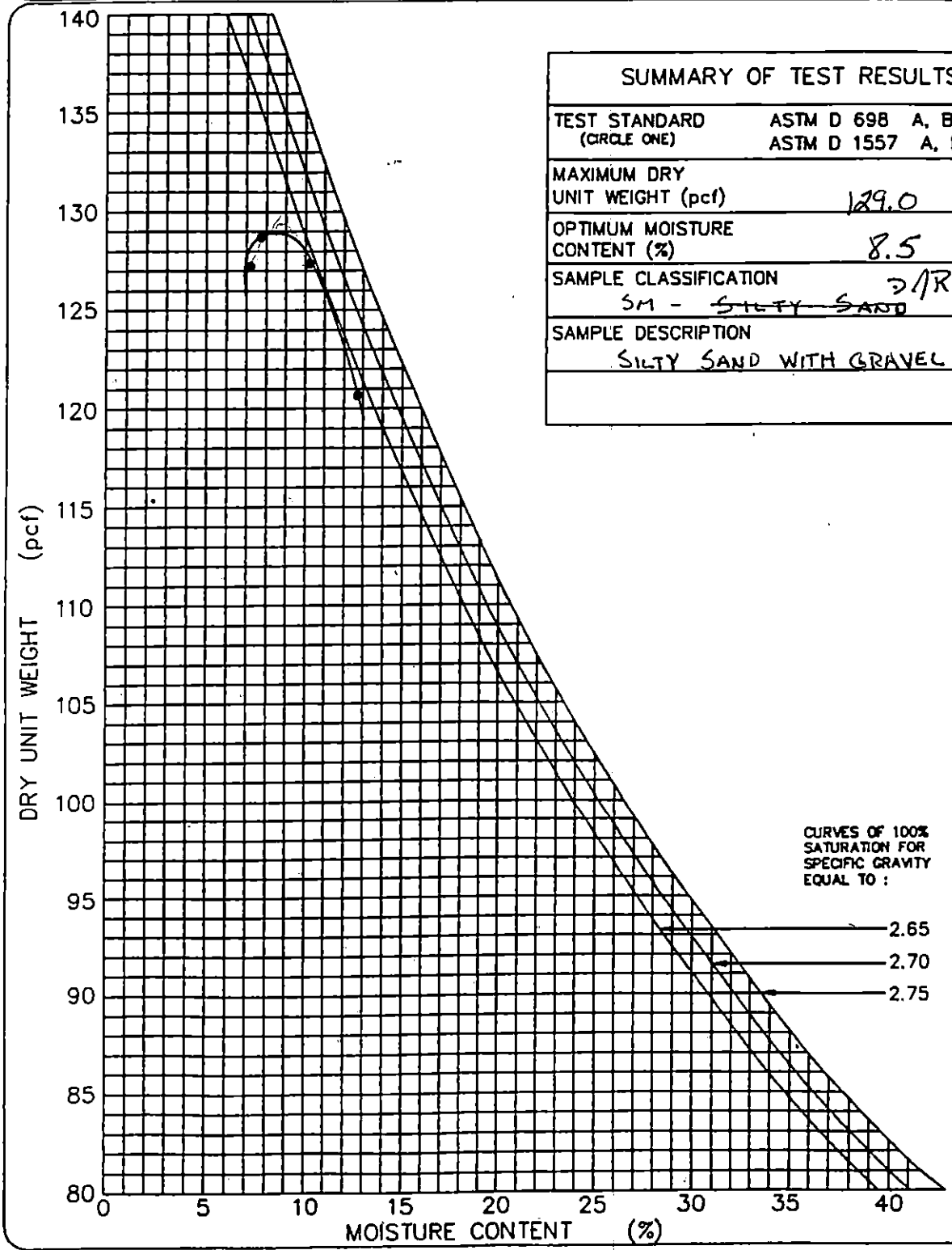
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 6 day April month 1995 year

SOURCE: R. Scheilder MATERIAL TYPE: Alt. Select SAMPLE NO.: S-14 QA ID: DR



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 (%)	8.5
SAMPLE CLASSIFICATION	D/R SM - ~~SILTY SAND~~
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 04 month 95 year

SOURCE: R. SCHEIDER MATERIAL TYPE: ALT SELECT SAMPLE NO.: S-15 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)	1358.3	1188.3
WT. OF TARE	(grams)	56.8	56.8
WT. OF DRY SAMPLE	(grams)	1301.5	1131.5

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
3/4	19.0	—	—	—	
1/2	12.5	57.5	4.4%	95.6%	
3/8	9.5	105.3	8.1%	91.9%	
4	4.750	224.1	17.2%	82.8%	
10	2.0	355.1	27.3%	72.7%	
20	0.850	526.9	40.5%	59.5%	
40	0.425	804.1	61.8%	38.2%	
60	0.250	1006.1	77.3%	22.7%	
100	0.150	1096.0	84.2%	15.8%	
200	0.075	1129.3	86.7%	13.3%	

%FINER = 100 − Σ % RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS

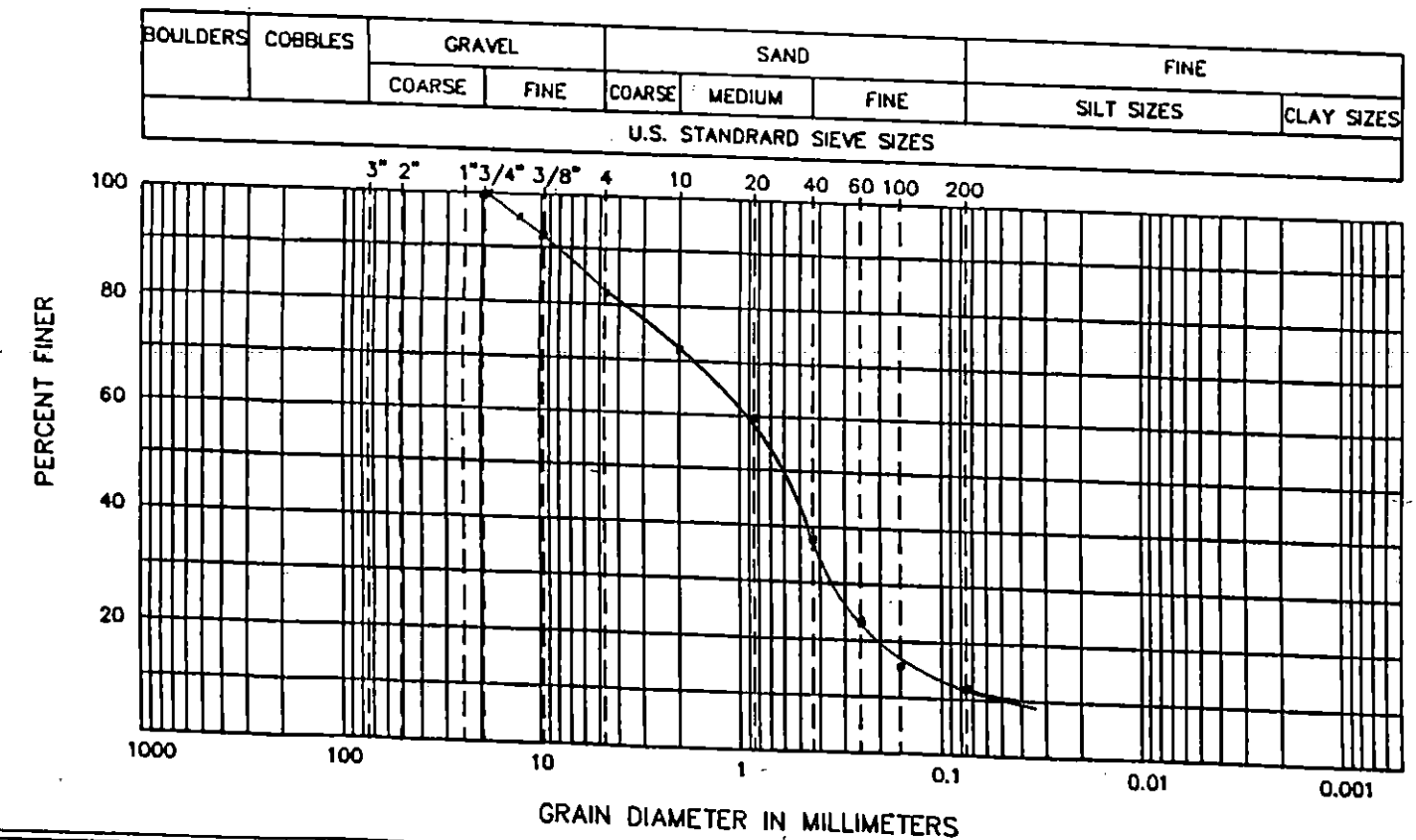
(ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — PROJECT NO.: GQ3700 TASK NO.: 01

SOURCE: R SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT FILL — DATE: 07 day 04 month 95 year — SAMPLE NO.: S-15 — QA ID: DJR



CURVE COEFFICIENTS

(C_u) 23.5

(C_c) ~~3.4~~ 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%
1/2-in.	95.6%
3/8-in.	91.9%
NO. 4	82.8%
NO. 10	72.7%
NO. 20	59.5%
NO. 40	38.2%
NO. 60	22.7%
NO. 100	15.8%
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 METHODS A, B, AND 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 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT FILL SAMPLE NO.: S-15 QA ID: D.J.R.

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS LESS THAN 20%.
ALL MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS DISCARDED.
USE OVERSIZE CORRECTION IF MORE THAN 5% IS DISCARDED ACCORDING TO ASTM D 4718.
USE A 4-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 25 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	6268	6385	6433	6405	
B	WT. OF MOLD	(grams)	4330	4330	4330	4330	
C	WT. OF SOIL = A - B	(grams)	1938	2055	2103	2075	
D	WET UNIT WT.(1) = C X 0.066	(pcf)	127.9	135.6	138.8	137.0	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	121.1	125.4	126.1	122.3	

NOTE: (1) IF CALIBRATED MOLD OF 1/30 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 = (30 / 453.6) = 0.066). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/30 ± 0.0005 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)	446.3	471.7	534.9	574.1	
H	WT. OF DRY SOIL & TARE	(grams)	423.2	437.0	486.7	513.4	
I	WT. OF WATER = G - H	(grams)	23.1	34.7	48.2	60.7	
J	WT. DRY SOIL = H - F	(grams)	415.1	429.0	478.8	505.1	
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.6%	8.1%	10.1%	12.0%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

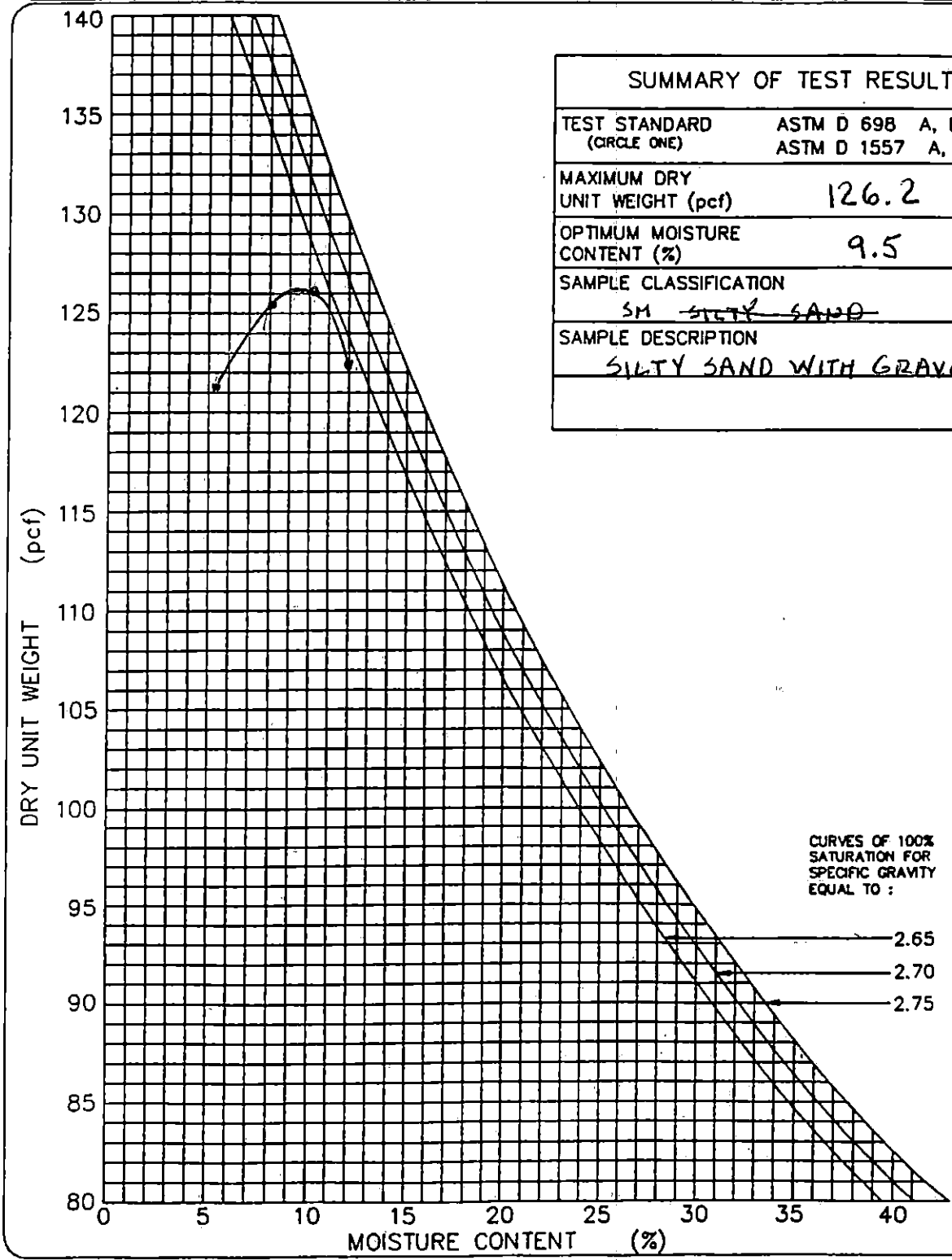
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 10 day 04 month 95 year

SOURCE: B. SCHLEIDER MATERIAL TYPE: ALT. SELECT FILL SAMPLE NO.: S-15 QA ID: D.J.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)	126.2
OPTIMUM MOISTURE CONTENT (%)	9.5
SAMPLE CLASSIFICATION	SM ~~SILTY SAND~~
SAMPLE DESCRIPTION	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 04 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-22 — 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)	10569	10702	10634		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4724	4857	4789		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	137.0	140.9	138.9		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	129.2	131.7	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	8.0		
G	WT. OF WET SOIL & TARE	(grams)	688.1	767.8	692.1		
H	WT. OF DRY SOIL & TARE	(grams)	649.5	718.0	624.2		
I	WT. OF WATER = G - H	(grams)	38.6	49.8	67.9		
J	WT. DRY SOIL = H - F	(grams)	641.5	709.9	616.2		
K	MOISTURE CONTENT = (I/J) X 100	(%)	6.0%	7.0%	11.0%		

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 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ACT SELECT SAMPLE NO.: S76 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)	1066.5	931.8
WT. OF TARE	(grams)	59.5	59.5
WT. OF DRY SAMPLE	(grams)	1007.0	872.3

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
3/4	19.0	—	—	100.0%	
1/2	12.5	42.6	4.2%	95.8%	
3/8	9.5	76.1	7.6%	92.4%	
4	4.750	176.6	17.5%	82.5%	
10	2.0	287.1	28.5	71.5%	
20	0.850	422.3	41.9	58.1%	
40	0.425	629.7	62.5	37.5%	
60	0.250	774.9	77.0	23.0%	
100	0.150	841.0	83.5	16.5%	
200	0.075	865.2	85.9	14.1%	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

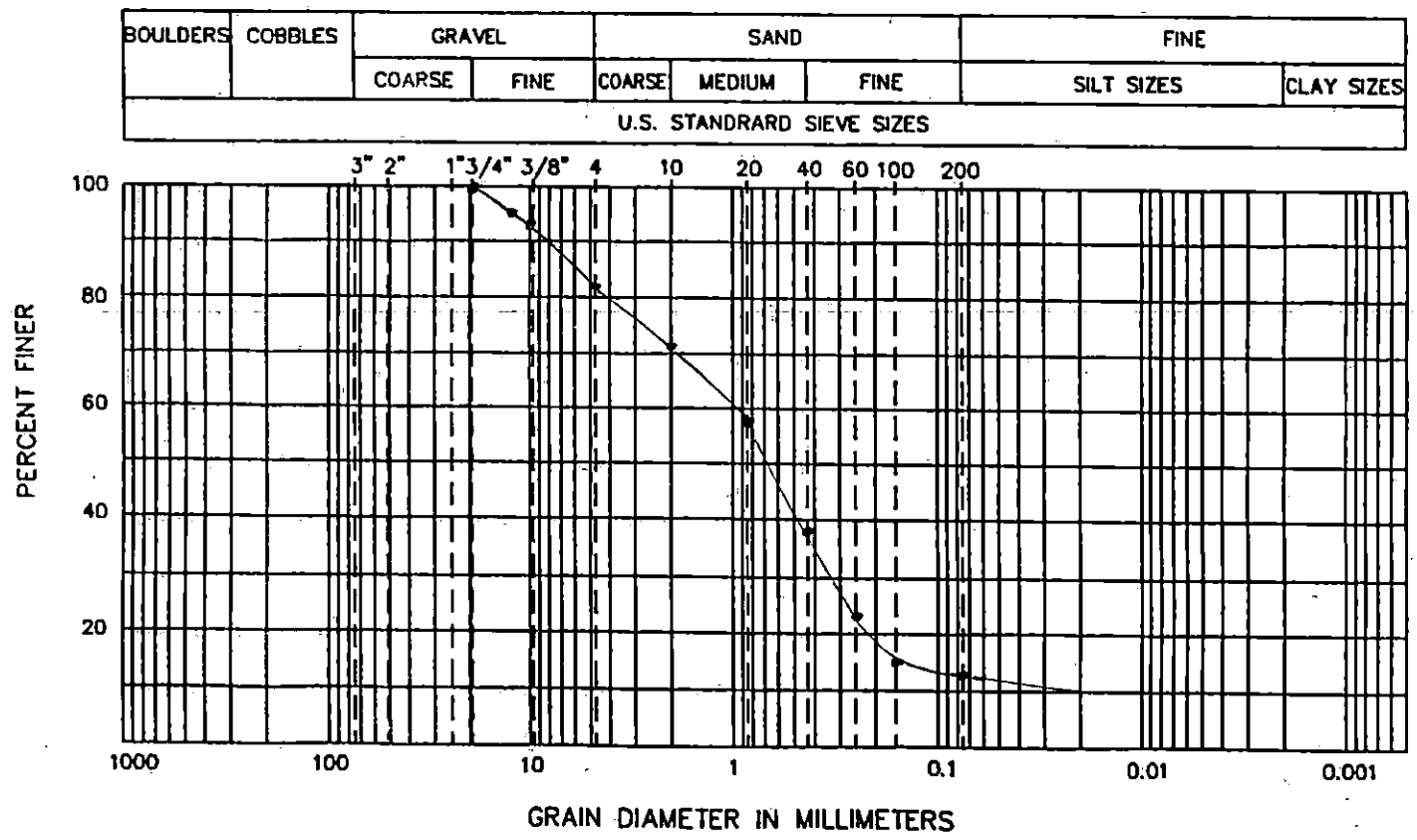
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 11 day 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT FILL SAMPLE NO.: S-16 QA ID: DJR



CURVE COEFFICIENTS

(C_U) 49.0

(C_C) 5.6

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.	95.8
3/8-in.	92.4
NO. 4	82.5
NO. 10	71.5
NO. 20	58.1
NO. 40	37.5
NO. 60	23.0
NO. 100	16.5
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 METHODS A, B, AND 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 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-16 QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS LESS THAN 20%.
ALL MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS DISCARDED.
USE OVERSIZE CORRECTION IF MORE THAN 5% IS DISCARDED ACCORDING TO ASTM D 4718.
USE A 4-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 25 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	6360	6415	6445	6395	
B	WT. OF MOLD	(grams)	4330	4330	4330	4330	
C	WT. OF SOIL = A - B	(grams)	2030	2085	2115	2065	
D	WET UNIT WT.(1) = C X 0.066	(pcf)	133.98	137.61	139.59	136.29	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	125.7	127.2	127.6	121.8	

NOTE: (1) IF CALIBRATED MOLD OF 1/30 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 = (30 / 453.6) = 0.066). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/30 ± 0.0005 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	7.8	7.5	8.0	
G	WT. OF WET SOIL & TARE	(grams)	503.7	548.5	524.0	445.9	
H	WT. OF DRY SOIL & TARE	(grams)	472.9	507.7	479.8	399.5	
I	WT. OF WATER = G - H	(grams)	30.8	40.8	44.2	46.4	
J	WT. DRY SOIL = H - F	(grams)	465.1	499.9	472.3	391.5	
K	MOISTURE CONTENT = (I/J) X 100	(%)	6.6%	8.2%	9.4%	11.9%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

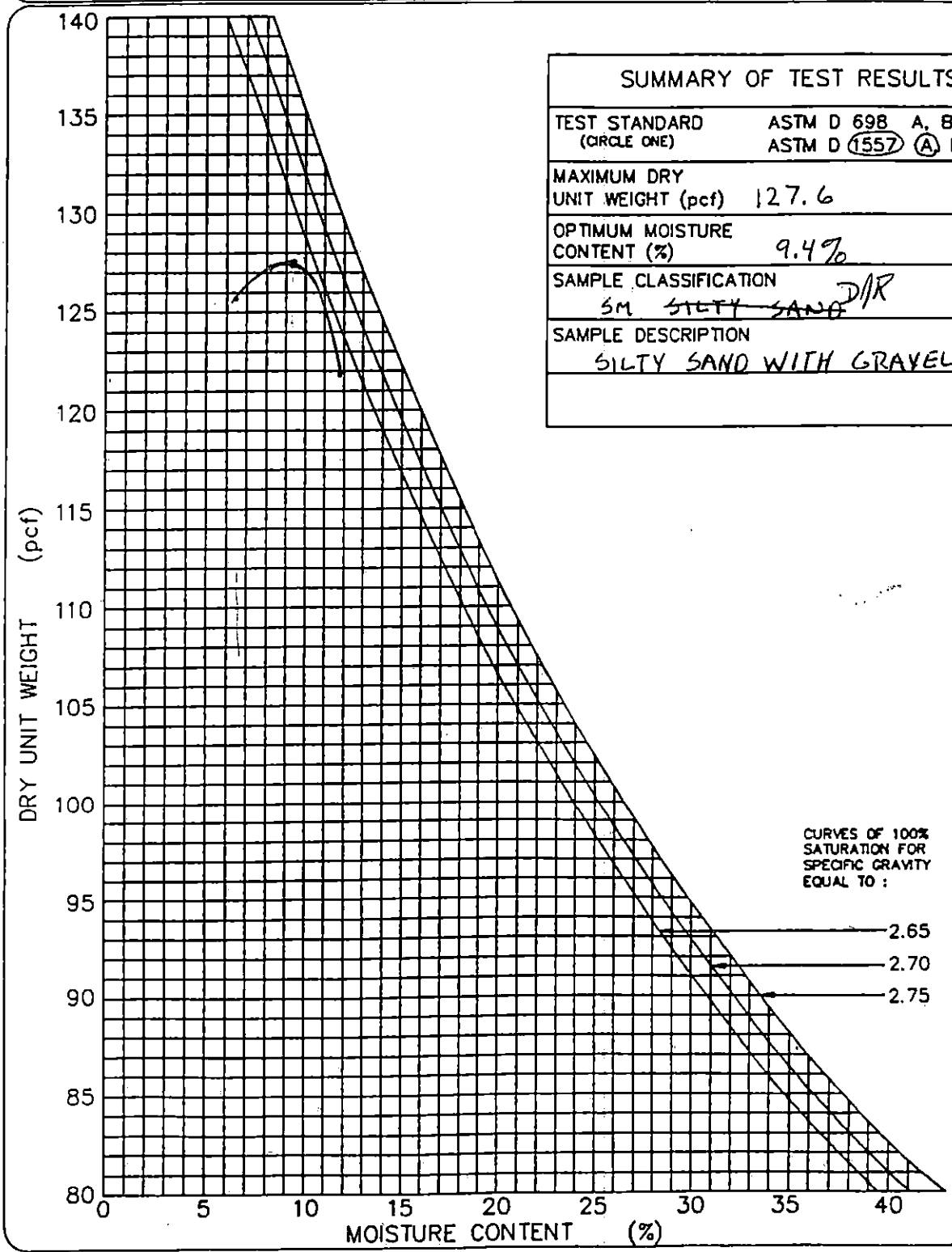
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 11 day 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-16 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 (%)	9.4%
SAMPLE CLASSIFICATION	SM ~~SILTY SAND~~ D/R
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: 12 day 04 month 95 yea

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT SELECT SAMPLE NO.: S-17 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 SAMRLE PLUS TARE	(grams)	1020.7	894.5
WT. OF TARE	(grams)	57.1	57.1
WT. OF DRY SAMPLE	(grams)	963.6	837.4

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
3/4	19.0	—	—	100.0%	
1/2	12.5	57.9	6.0%	94.0%	
3/8	9.5	80.3	8.3%	91.7%	
4	4.750	195.9	20.3%	79.7%	
10	2.0	318.9	33.0%	67.0%	
20	0.850	469.4	48.7%	51.3%	
40	0.425	670.2	69.6%	30.4%	
60	0.250	797.6	82.8%	17.2%	
100	0.150	859.3	89.2%	10.8%	
200	0.075	878.5	91.2%	8.8%	

%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

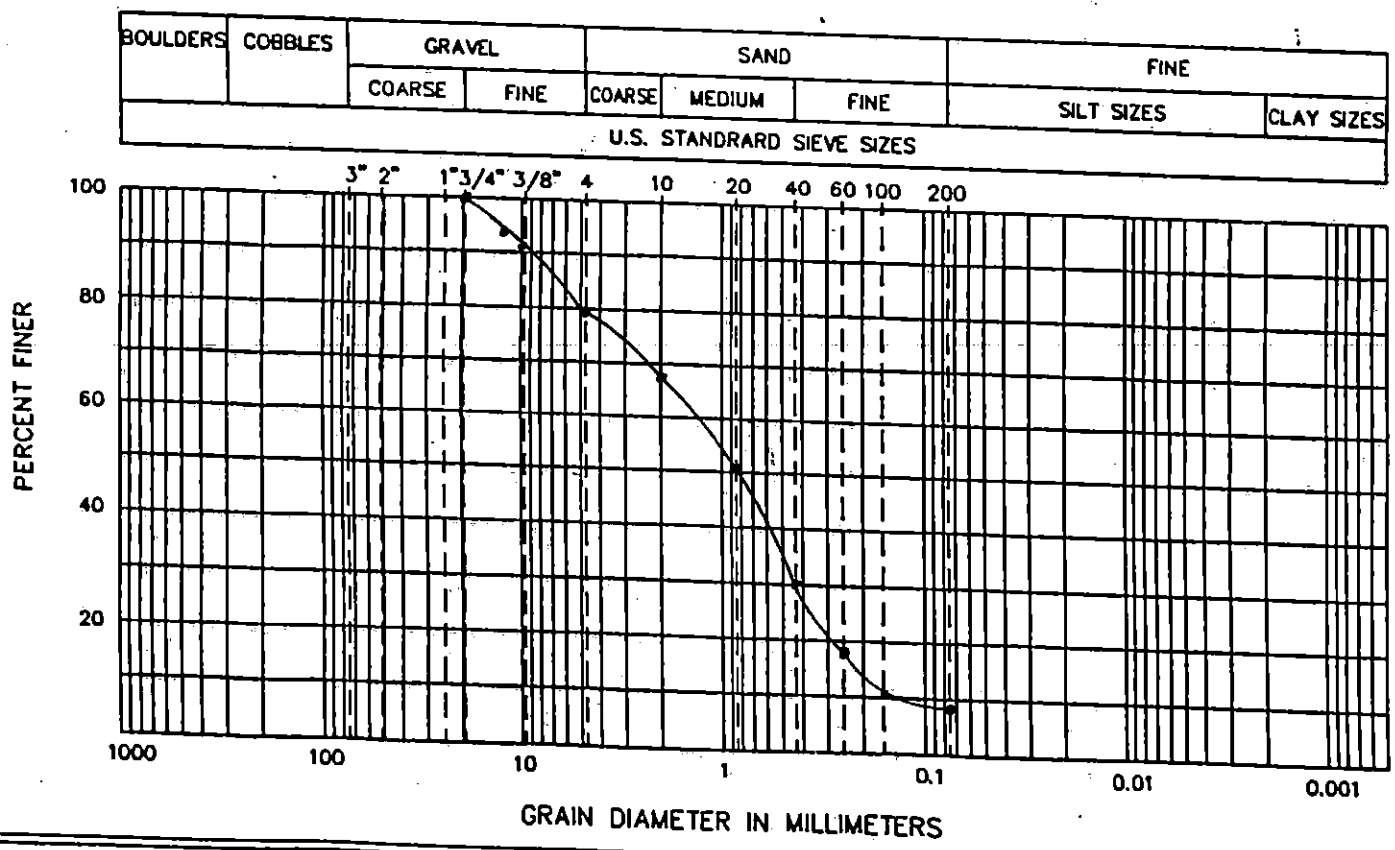
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

PROJECT NO.: GQ3700 TASK NO.: 01

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT SELECT

DATE: 12 day 04 month 95 year

SAMPLE NO.: S-17 QA ID: DJR



CURVE COEFFICIENTS

(C_u) 10.0

(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.	94.0
3/8-in.	91.7
NO. 4	79.7
NO. 10	67.0
NO. 20	51.3
NO. 40	30.4
NO. 60	17.2
NO. 100	10.8
NO. 200	8.8

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 METHODS A, (B), AND 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 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-17 QA ID: D/R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS LESS THAN 20%.
ALL MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS DISCARDED.
USE OVERSIZE CORRECTION IF MORE THAN 5% IS DISCARDED ACCORDING TO ASTM D 4718.
USE A 4-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 25 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	6270	6369	6495	6395	
B	WT. OF MOLD	(grams)	4330	4330	4330	4330	
C	WT. OF SOIL = A − B	(grams)	1940	2039	2165	2065	
D	WET UNIT WT.(1) = C X 0.066	(pcf)	128.0	134.6	142.9	136.3	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	120.2	124.2	130.1	121.8	

NOTE: (1) IF CALIBRATED MOLD OF 1/30 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 = (30 / 453.6) = 0.066). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/30 ± 0.0005 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	8.2	
G	WT. OF WET SOIL & TARE	(grams)	407.5	469.5	524.6	523.0	
H	WT. OF DRY SOIL & TARE	(grams)	383.1	433.7	478.4	468.3	
I	WT. OF WATER = G − H	(grams)	24.4	35.8	46.2	54.7	
J	WT. DRY SOIL = H − F	(grams)	375.0	425.7	470.5	460.1	
K	MOISTURE CONTENT = (I/J) X 100	(%)	6.5%	8.4%	9.8	11.9%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

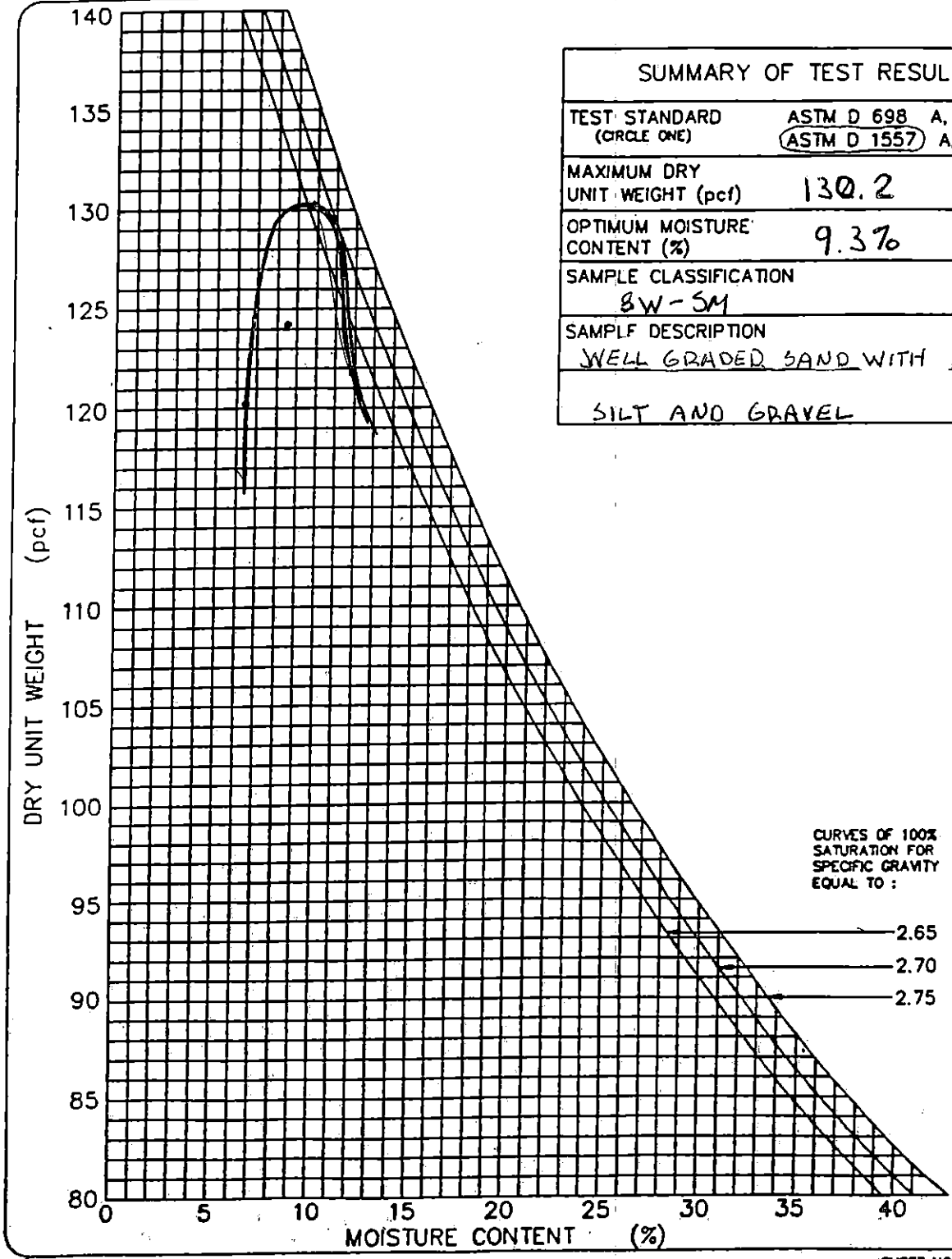
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 12 day 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-17 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)	130.2
OPTIMUM MOISTURE CONTENT (%)	9.3%
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 04 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT SELECT SAMPLE NO.: S-18 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)	1395.3	1290.6
WT. OF TARE	(grams)	59.4	59.4
WT. OF DRY SAMPLE	(grams)	1335.9	1231.2

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
3/4	19.0	90.7	6.8	93.2	
1/2	12.5	154.9	11.6	88.4	
3/8	9.5	232.3	17.4	82.6	
4	4.750	431.4	32.3	67.7	
10	2.0	604.2	45.2	54.8	
20	0.850	787.5	58.9	41.1	
40	0.425	1011.2	75.7	24.3	
60	0.250	1156.7	86.6	13.4	
100	0.150	1218.1	91.2	8.8	
200	0.075	1236.3	92.5	7.5	

%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

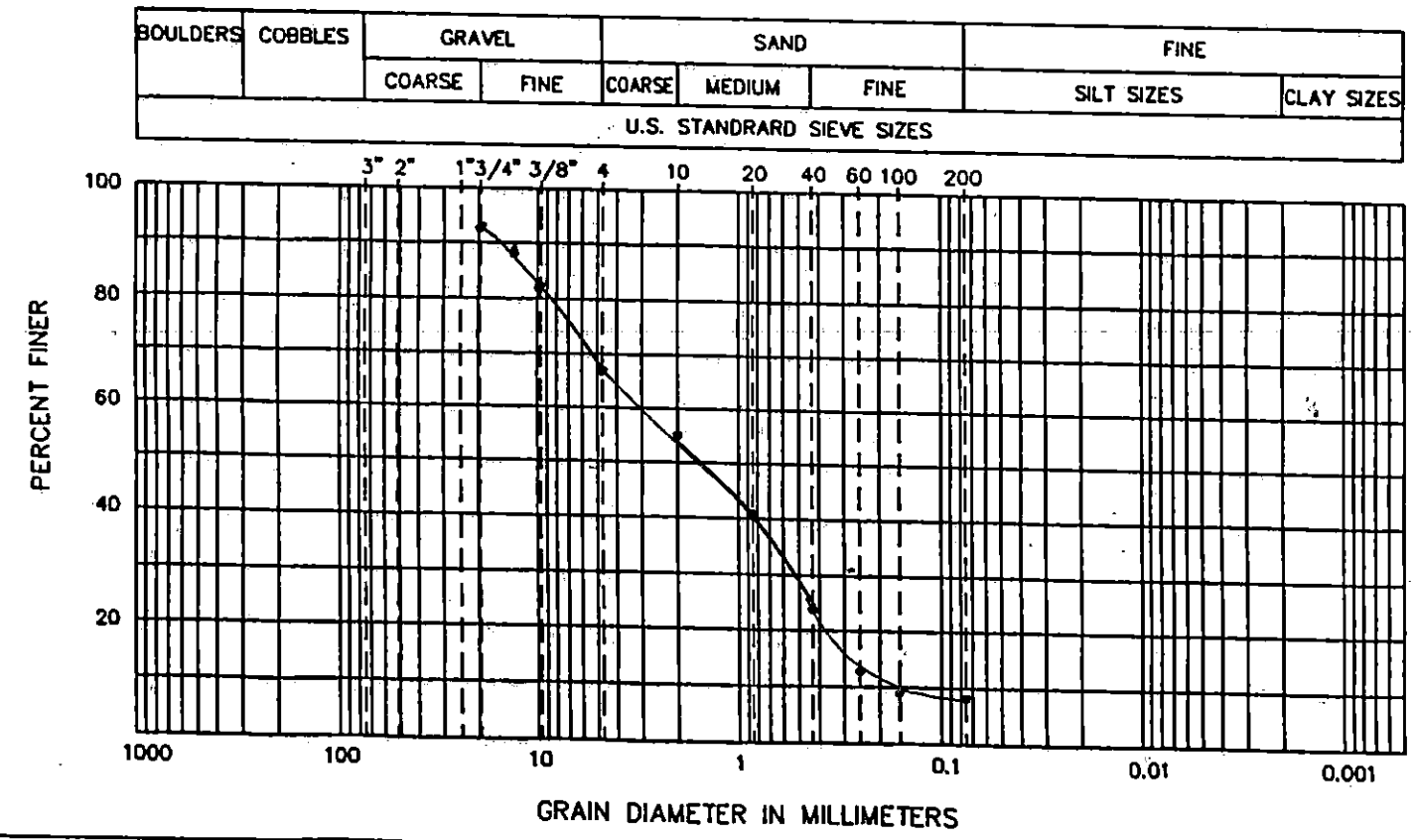
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 14 day 04 month 95 year

SAMPLE NO.: S-18 QA ID: 21R



CURVE COEFFICIENTS

(C_u) 16.8

(C_c) 0.51

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	93.2
1/2-in.	88.4
3/8-in.	82.6
NO. 4	67.7
NO. 10	54.8
NO. 20	41.1
NO. 40	24.3
NO. 60	13.4
NO. 100	8.8
NO. 200	7.5

SOIL CLASSIFICATION (ASTM D 2487): POORLY GRADED SAND W/SILT & GRAVEL - SP-SM

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHODS A, (B), AND 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 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-18 QA ID: D/R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS LESS THAN 20%.
ALL MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS DISCARDED.
USE OVERSIZE CORRECTION IF MORE THAN 5% IS DISCARDED ACCORDING TO ASTM D 4718.
USE A 4-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 25 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	6318	6445	6450	6415	
B	WT. OF MOLD	(grams)	4330	4330	4330	4330	
C	WT. OF SOIL = A - B	(grams)	1988	2115	2120	2085	
D	WET UNIT WT.(1) = C X 0.066	(pcf)	131.2	139.6	139.9	137.6	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	124.0	128.7	127.2	123.0	

NOTE: (1) IF CALIBRATED MOLD OF 1/30 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 = (30 / 453.6) = 0.066). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/30 ± 0.0005 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	7.7	8.1	
G	WT. OF WET SOIL & TARE	(grams)	427.3	538.8	592.8	527.5	
H	WT. OF DRY SOIL & TARE	(grams)	404.3	497.3	539.7	472.2	
I	WT. OF WATER = G - H	(grams)	23.0	41.5	53.1	55.3	
J	WT. DRY SOIL = H - F	(grams)	396.3	489.4	532.0	464.1	
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.8%	8.5%	10.0%	11.9%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

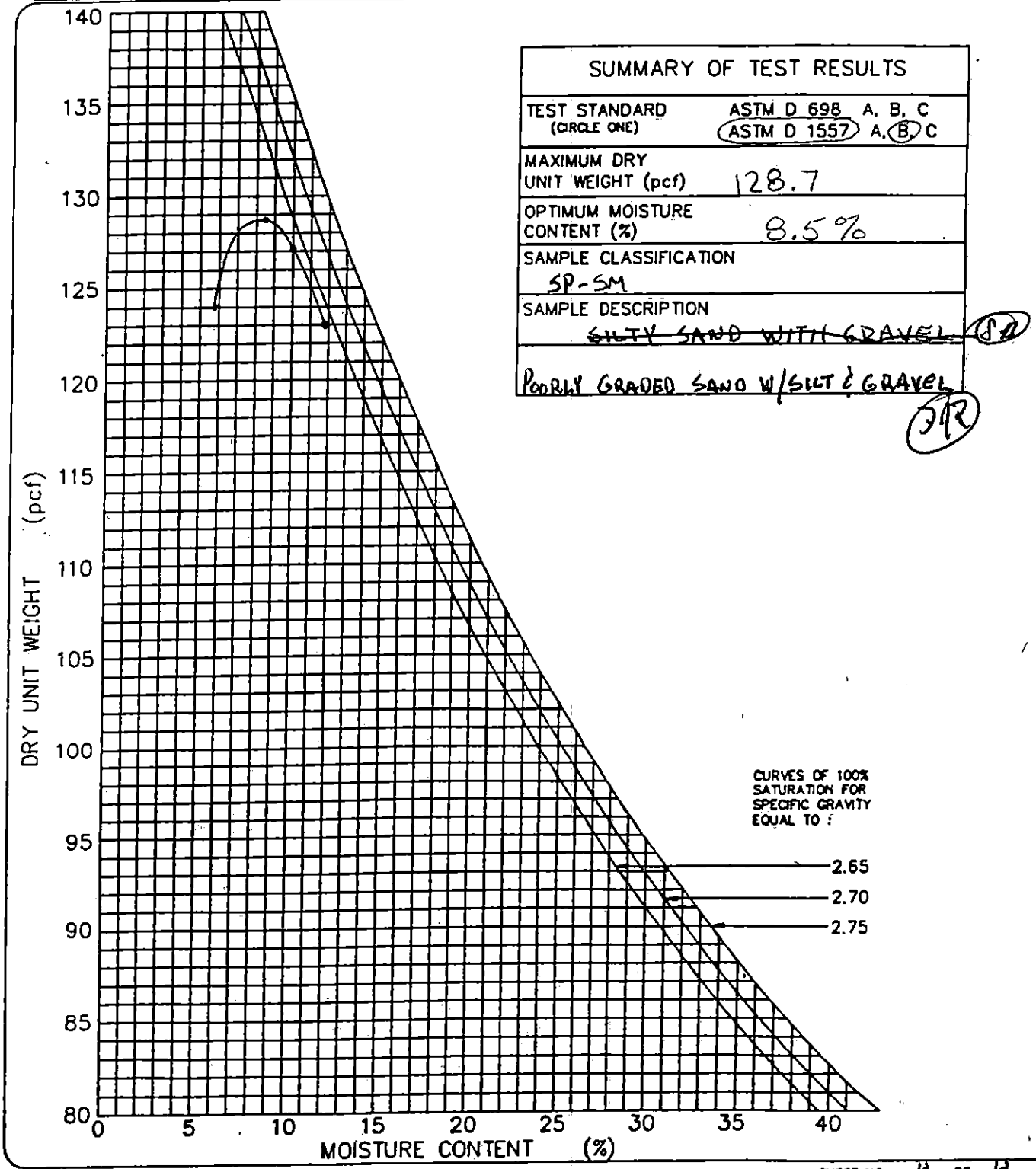
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 14 day 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-18 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)	128.7
OPTIMUM MOISTURE CONTENT (%)	8.5%
SAMPLE CLASSIFICATION	SP-SM
SAMPLE DESCRIPTION	~~SILTY SAND WITH GRAVEL~~ SA POORLY GRADED SAND W/SILT & GRAVEL DJR



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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: 20 day 04 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-18A 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)	1569.7	1390.6
WT. OF TARE	(grams)	59.9	59.9
WT. OF DRY SAMPLE	(grams)	1509.8	1330.7

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
3/4"	19.0	0	0.0	100.0	
1/2"	12.5	60.4	7.1	92.9	
3/8"	9.5	218.8	14.5	85.5	
4	4.750	471.9	31.3	68.7	
10	2.0	656.5	43.5	56.5	
20	0.850	860.8	57.0	43.0	
40	0.425	1118.4	74.1	25.9	
60	0.250	1261.4	83.5	16.5	
100	0.150	1314.7	87.1	12.9	
200	0.075	1329.7	88.1	11.9	

%FINER = 100 − Σ% RETAINED

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

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

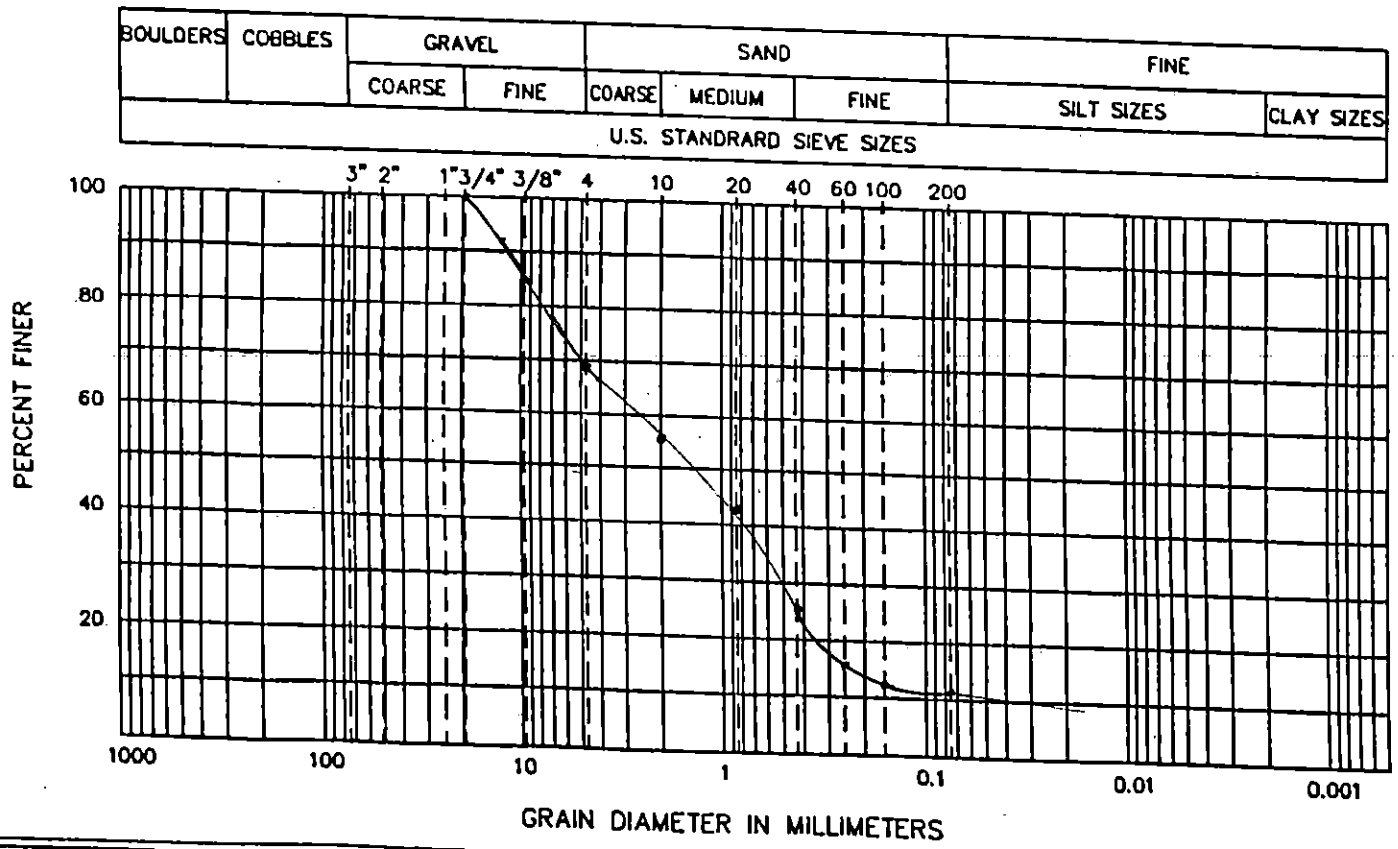
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE PROJECT NO.: GQ3700 TASK NO.: 01

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT DATE: 20 day 04 month 95 year

SAMPLE NO.: S-18A QA ID: P/R



CURVE COEFFICIENTS

(C_u) 56.3

(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.	92.9
3/8-in.	85.5
NO. 4	68.7
NO. 10	56.5
NO. 20	43.0
NO. 40	25.9
NO. 60	16.5
NO. 100	12.9
NO. 200	11.9

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 METHODS A, (B), AND 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 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-18A QA ID: 2/R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS LESS THAN 20%.
ALL MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS DISCARDED.
USE OVERSIZE CORRECTION IF MORE THAN 5% IS DISCARDED ACCORDING TO ASTM D 4718.
USE A 4-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 25 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	6413	6464	6422	6383	
B	WT. OF MOLD	(grams)	4330	4330	4330	4330	
C	WT. OF SOIL = A - B	(grams)	2083	2134	2092	2053	
D	WET UNIT WT.(1) = C X 0.066	(pcf)	137.5	140.8	138.1	135.5	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	128.9	128.6	124.0	119.7	

NOTE: (1) IF CALIBRATED MOLD OF 1/30 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 = (30 / 453.6) = 0.066). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/30 ± 0.0005 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	7.9	8.3	
G	WT. OF WET SOIL & TARE	(grams)	512.7	497.2	569.4	576.2	
H	WT. OF DRY SOIL & TARE	(grams)	481.0	454.7	511.9	509.9	
I	WT. OF WATER = G - H	(grams)	31.7	42.5	57.5	66.3	
J	WT. DRY SOIL = H - F	(grams)	473.0	446.6	504.0	501.6	
K	MOISTURE CONTENT = (I/J) X 100	(%)	6.7%	9.5%	11.4%	13.2%	

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TOWN OF HUNTINGTON

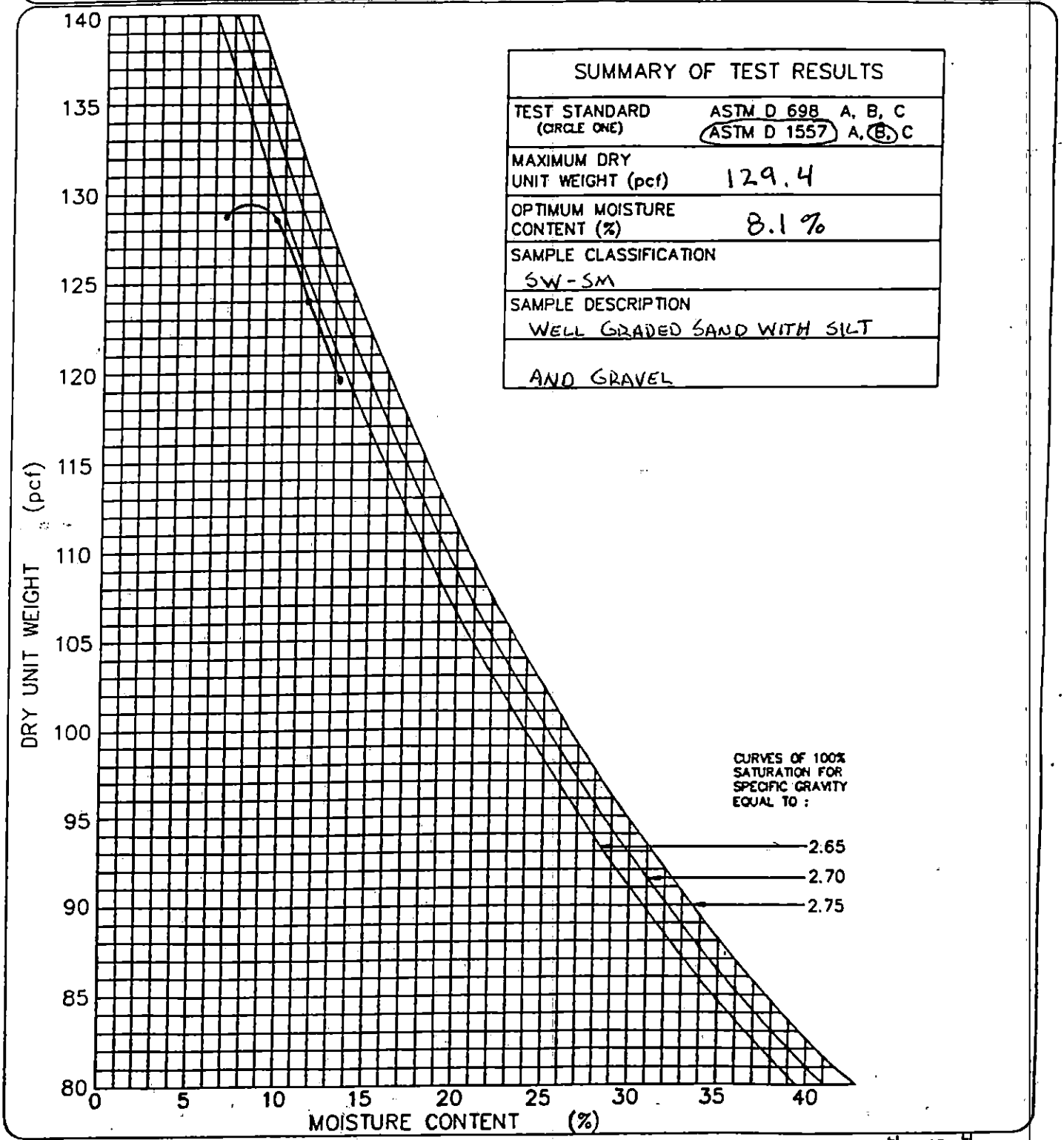
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 20 day 04 month 96 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-18A 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)	129.4
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: 18 day 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT SELECT SAMPLE NO.: S-19 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)	1486.2	1364.0
WT. OF TARE	(grams)	57.3	57.3
WT. OF DRY SAMPLE	(grams)	1428.9	1306.7

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
3/4"	19.0	0	0.0	100.0	
1/2"	12.5	43.6	3.1	96.9	
3/8"	9.5	120.0	8.4	91.6	
4	4.750	293.1	20.5	79.5	
10	2.0	440.5	30.8	69.2	
20	0.850	629.9	44.1	55.9	
40	0.425	938.6	65.7	34.3	
60	0.250	1178.0	82.4	17.6	
100	0.150	1276.6	89.3	10.7	
200	0.075	1305.9	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

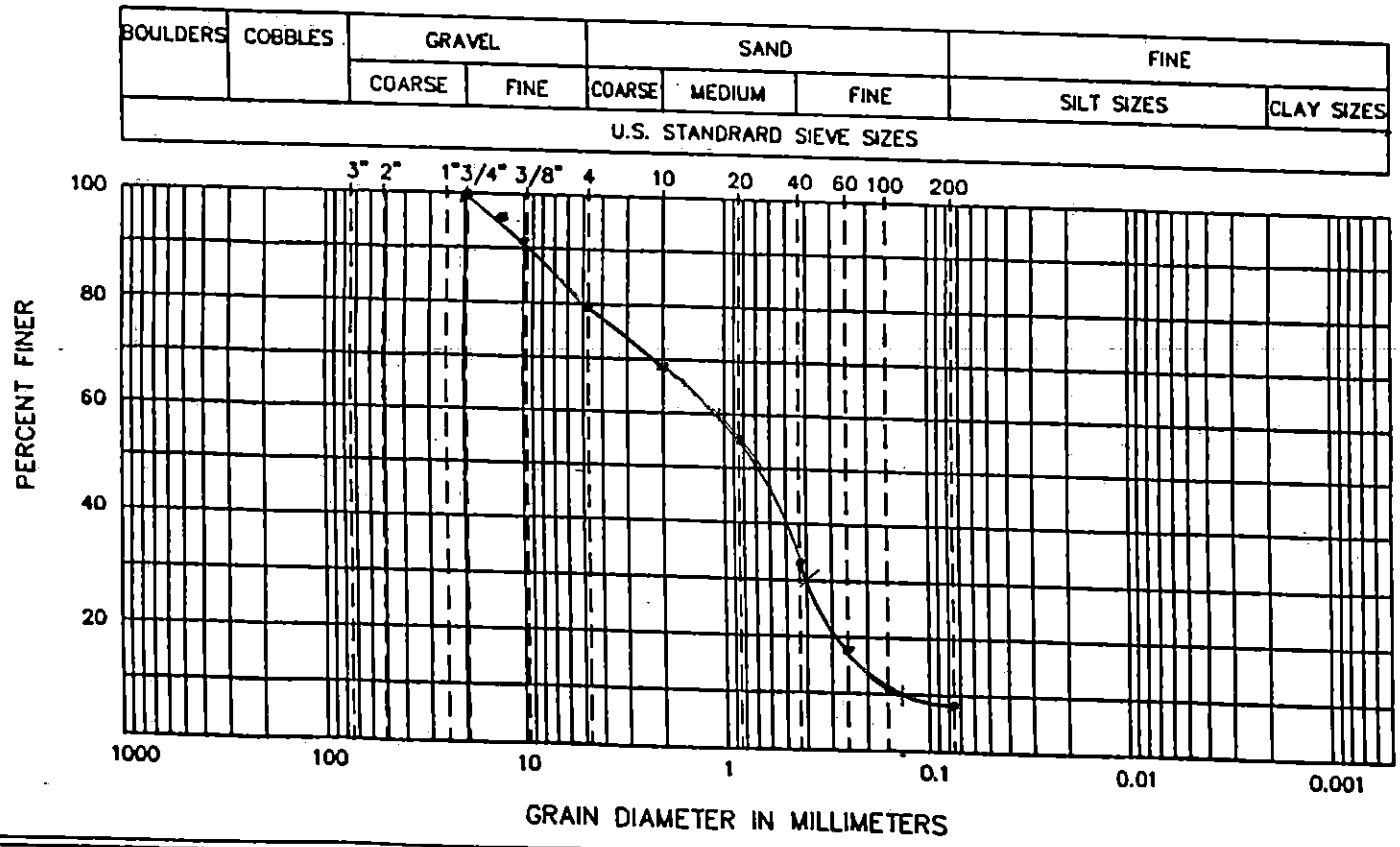
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

PROJECT NO.: GQ3700 TASK NO.: 01

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT

DATE: 18 day 04 month 95 year

SAMPLE NO.: S-19 QA ID: D/R



CURVE COEFFICIENTS

(C_u) . . 6.7 . . . .

(C_c) . . . 1.1 . . . .

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.	96.9
3/8-in.	91.6
NO. 4	79.5
NO. 10	69.2
NO. 20	55.9
NO. 40	34.3
NO. 60	17.6
NO. 100	10.7
NO. 200	8.6

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 METHODS A, (B), AND 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 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-19 QA ID: 2/R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS LESS THAN 20%.
ALL MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS DISCARDED.
USE OVERSIZE CORRECTION IF MORE THAN 5% IS DISCARDED ACCORDING TO ASTM D 4718.
USE A 4-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 25 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	6255	6376	6428	6405	
B	WT. OF MOLD	(grams)	4330	4330	4330	4330	
C	WT. OF SOIL = A - B	(grams)	1925	2046	2098	2075	
D	WET UNIT WT.(1) = C X 0.066	(pcf)	127.1	135.0	138.5	137.0	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	120.6	125.6	126.1	123.5	

NOTE: (1) IF CALIBRATED MOLD OF 1/30 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 = (30 / 453.6) = 0.066). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/30 ± 0.0005 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	8.3	8.1	8.5	
G	WT. OF WET SOIL & TARE	(grams)	467.2	576.7	659.6	545.8	
H	WT. OF DRY SOIL & TARE	(grams)	443.5	537.2	601.7	492.8	
I	WT. OF WATER = G - H	(grams)	23.7	39.5	57.9	53.0	
J	WT. DRY SOIL = H - F	(grams)	435.2	528.9	593.6	484.3	
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.4%	7.5%	9.8%	10.9%	

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TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

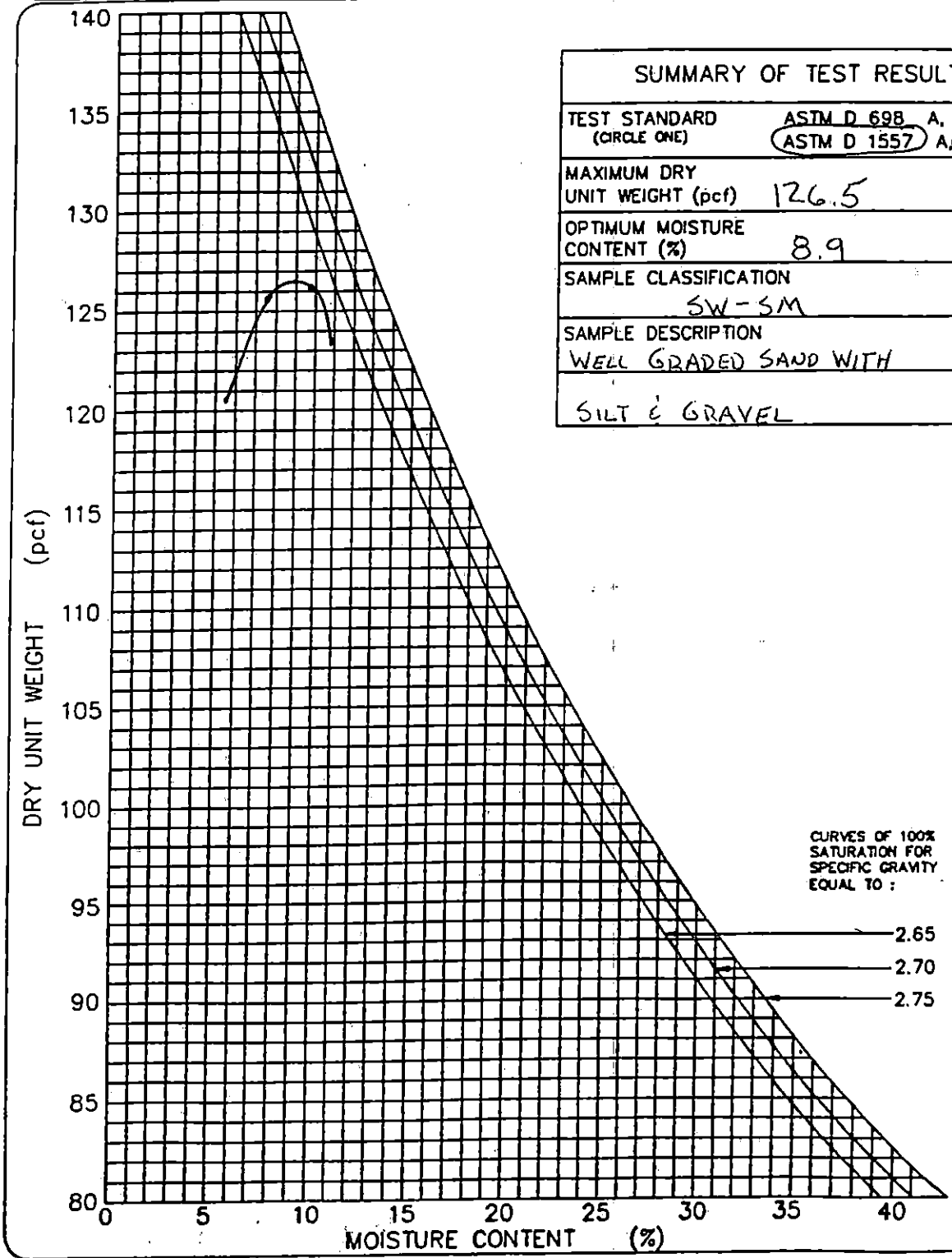
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 18 day 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-19 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)	126.5
OPTIMUM MOISTURE CONTENT (%)	8.9
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT & 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: 18 day 04 month 95 year

SOURCE: R SCHLEIDER MATERIAL TYPE: ALT SELECT SAMPLE NO.: S-20 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)	1416.8	1275.5
WT. OF TARE	(grams)	59.8	59.8
WT. OF DRY SAMPLE	(grams)	1357.0	1215.7

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
3/4"	19.0	64.0	4.7	95.3	
1/2"	12.5	156.5	11.5	88.5	
3/8"	9.5	226.6	16.7	83.3	
4	4.750	380.5	28.0	72.0	
10	2.0	545.7	40.2	59.8	
20	0.850	739.1	54.5	45.5	
40	0.425	985.6	72.6	27.4	
60	0.250	1135.9	83.7	16.3	
100	0.150	1194.4	88.0	12.0	
200	0.075	1215.4	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

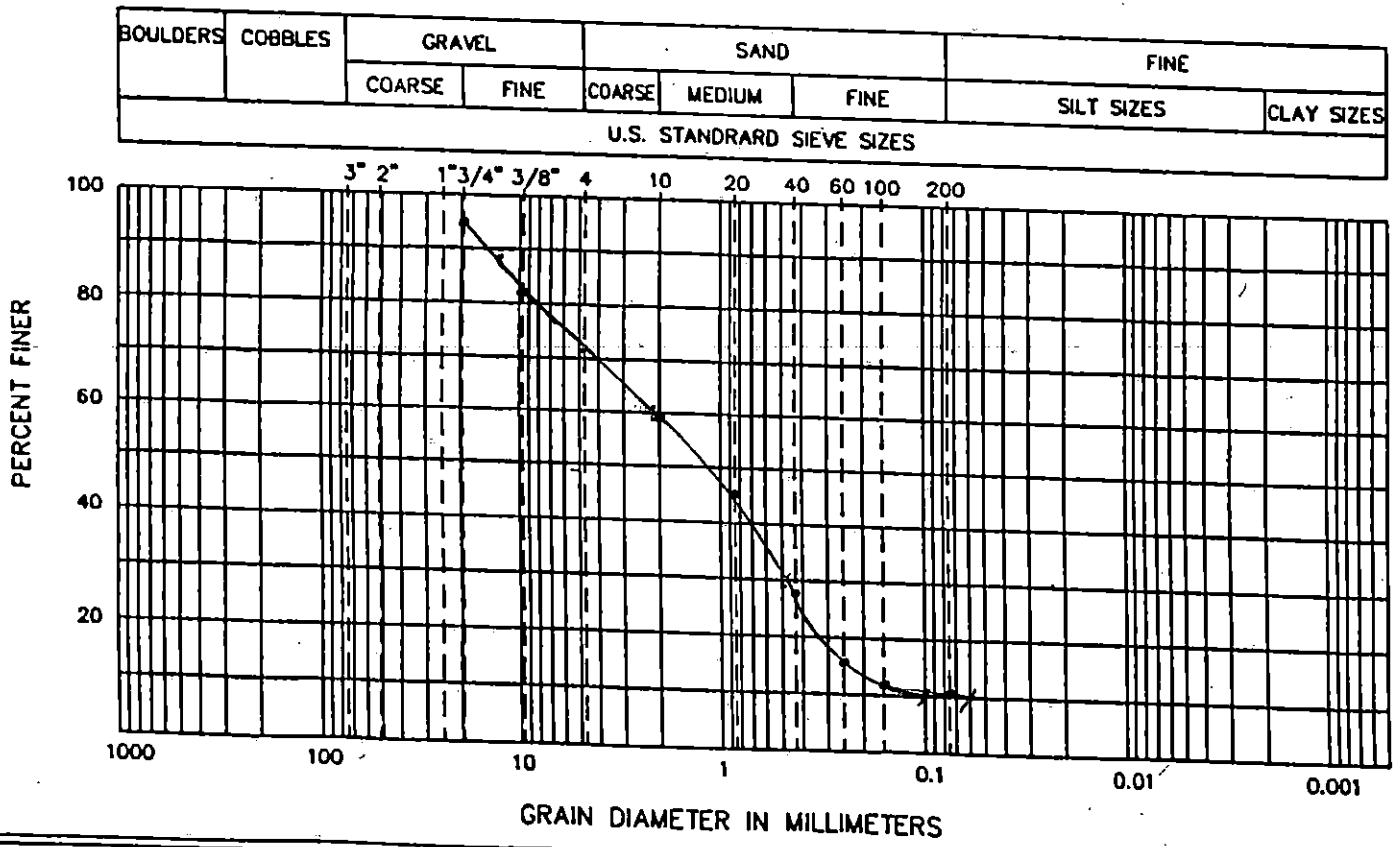
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

PROJECT NO.: GQ3700 TASK NO.: 01

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT

DATE: 18 day 04 month 95 year

SAMPLE NO.: S-20 QA ID: JAR



CURVE COEFFICIENTS

(C_u) 36

(C_c) 1.7

ATTERBERG LIMITS

(LL)

(PL)

(PI)

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	95.3
1/2-in.	88.5
3/8-in.	83.3
NO. 4	72.0
NO. 10	59.8
NO. 20	45.5
NO. 40	27.4
NO. 60	16.3
NO. 100	12.0
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 METHODS A, (B) AND 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 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-20 QA ID: 2/R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS LESS THAN 20%.
ALL MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS DISCARDED.
USE OVERSIZE CORRECTION IF MORE THAN 5% IS DISCARDED ACCORDING TO ASTM D 4718.
USE A 4-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 25 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	6305	6455	6430	6402	
B	WT. OF MOLD	(grams)	4330	4330	4330	4330	
C	WT. OF SOIL = A - B	(grams)	1975	2125	2100	2072	
D	WET UNIT WT.(1) = C X 0.066	(pcf)	130.4	140.25	138.6	136.8	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.8	129.2	125.9	122.0	

NOTE: (1) IF CALIBRATED MOLD OF 1/30 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 = (30 / 453.6) = 0.066). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/30 ± 0.0005 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)	33.4	33.7	33.6	33.6	
G	WT. OF WET SOIL & TARE	(grams)	387.0	430.3	392.9	399.5	
H	WT. OF DRY SOIL & TARE	(grams)	369.3	398.9	360.0	360.1	
I	WT. OF WATER = G - H	(grams)	17.7	31.4	32.9	39.4	
J	WT. DRY SOIL = H - F	(grams)	335.9	365.2	326.4	326.5	
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.3 %	8.6 %	10.1%	12.1 %	

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TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

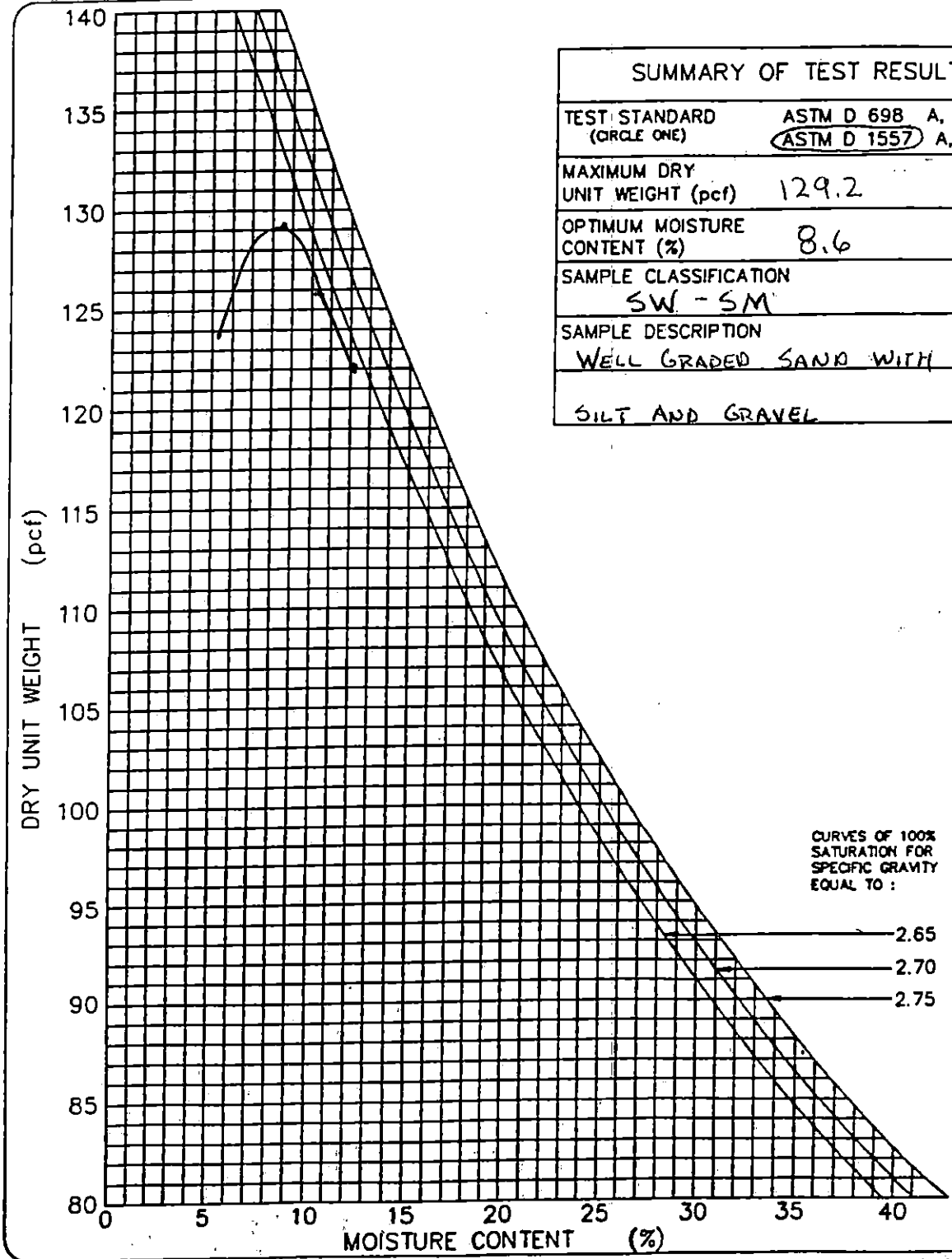
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 18 day 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-20 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)	129.2
OPTIMUM MOISTURE CONTENT (%)	8.6
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: 20 day 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT SELECT SAMPLE NO.: S-20A 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)	1423.0	1250.0
WT. OF TARE	(grams)	57.4	57.4
WT. OF DRY SAMPLE	(grams)	1365.6	1192.6

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	48.9	3.6	96.4	
3/8"	9.5	118.8	8.7	91.3	
4	4.750	309.7	22.7	77.3	
10	2.0	499.8	36.6	63.4	
20	0.850	632.0	46.3	53.7	
40	0.425	870.5	63.7	36.3	
60	0.250	1031.8	75.6	24.4	
100	0.150	1166.2	85.4	14.6	
200	0.075	1190.9	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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

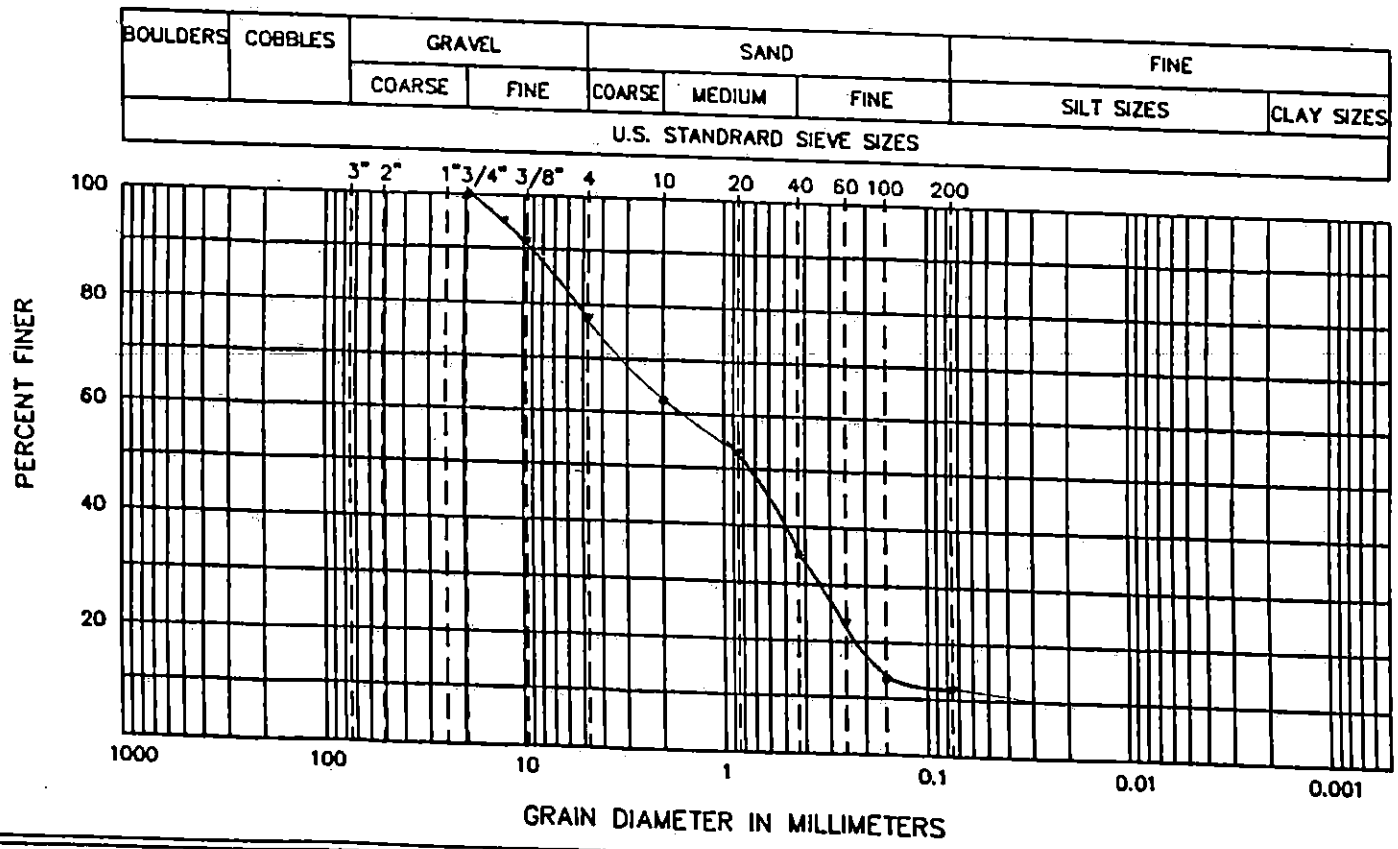
PROJECT NO.: GQ3700 TASK NO.: 01

SOURCE: R. SCHLEIDER

MATERIAL TYPE: ALTERNATE SELECT

DATE: 20 day 04 month 95 year

SAMPLE NO.: S-20A QA ID: 2/R



CURVE COEFFICIENTS

(C_u) 60.3

(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.	96.4
3/8-in.	91.3
NO. 4	77.3
NO. 10	63.4
NO. 20	53.7
NO. 40	36.3
NO. 60	24.4
NO. 100	14.6
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 METHODS A, (B) AND 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 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-20A QA ID: D1R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 4 (4.75-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS LESS THAN 20%.
ALL MATERIAL RETAINED ON THE 3/8-in. (9.5-mm) SIEVE IS DISCARDED.
USE OVERSIZE CORRECTION IF MORE THAN 5% IS DISCARDED ACCORDING TO ASTM D 4718.
USE A 4-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 25 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	6407	6480	6444	6392	
B	WT. OF MOLD	(grams)	4330	4330	4330	4330	
C	WT. OF SOIL = A - B	(grams)	2077	2150	2114	2062	
D	WET UNIT WT.(1) = C X 0.066	(pcf)	137.1	141.9	139.5	136.1	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	128.7	131.5	126.9	121.6	

NOTE: (1) IF CALIBRATED MOLD OF 1/30 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 = (30 / 453.6) = 0.066). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/30 ± 0.0005 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)	33.3	33.7	33.8	34.1	
G	WT. OF WET SOIL & TARE	(grams)	378.6	366.3	418.5	454.9	
H	WT. OF DRY SOIL & TARE	(grams)	357.6	341.9	384.0	410.1	
I	WT. OF WATER = G - H	(grams)	21.0	24.4	34.5	44.8	
J	WT. DRY SOIL = H - F	(grams)	324.3	308.2	350.2	376.0	
K	MOISTURE CONTENT = (I/J) X 100	(%)	6.5%	7.9%	9.9%	11.9%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

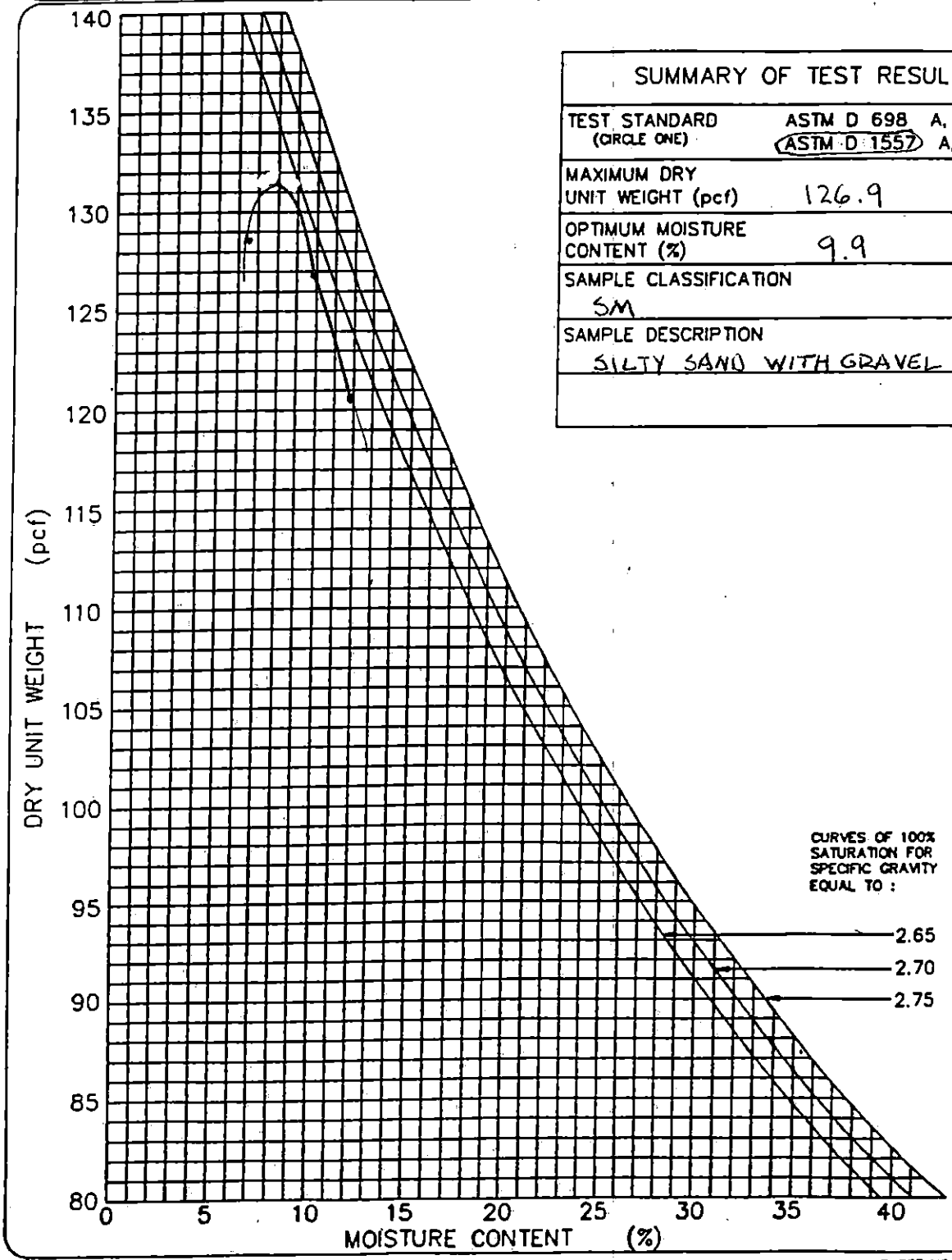
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 20 day 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-20A QA ID: D.J.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 (%)	9.9
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: G03700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day 04 month 95 year

SOURCE: ON-SITE MATERIAL TYPE: ALT. SELECT / EXISTING MATERIAL SAMPLE NO.: S-21 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)	1496.6	1435.1
WT. OF TARE	(grams)	59.9	59.9
WT. OF DRY SAMPLE	(grams)	1436.7	1375.2

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	84.3	5.9%	94.1%	
3/4"	19.0	124.3	8.7%	91.3%	
1/2"	12.5	181.2	12.6%	87.4%	
3/8"	9.5	246.6	17.2%	82.8%	
4	4.750	366.5	25.5%	74.5%	
10	2.0	511.9	35.6%	64.4%	
20	0.850	702.9	48.9%	51.1%	
40	0.425	1031.3	71.8%	28.2%	
60	0.250	1281.4	89.2%	10.8%	
100	0.150	1357.4	94.5%	5.5%	
200	0.075	1373.4	95.6%	4.4%	

%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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

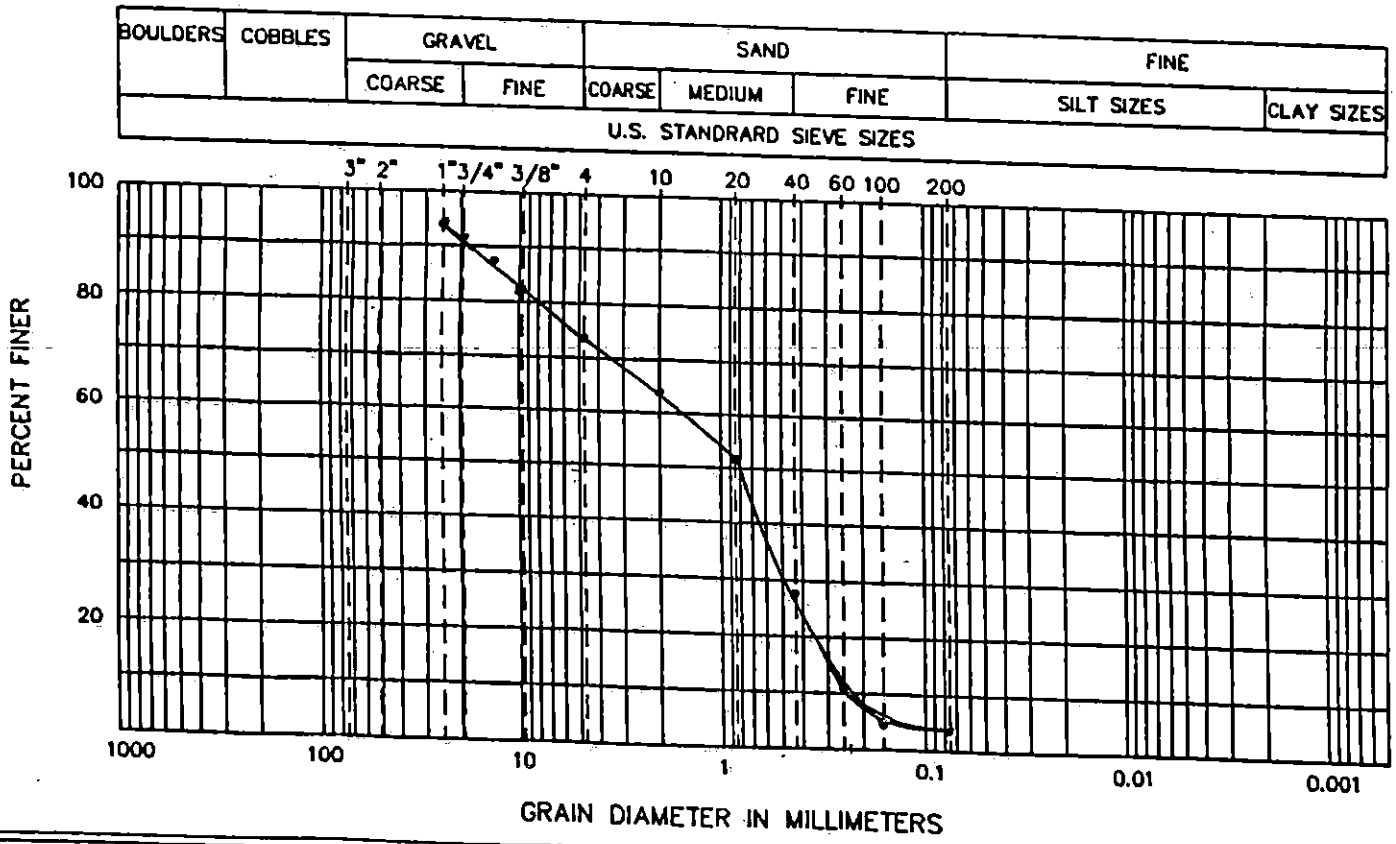
PROJECT NO.: GQ3700 TASK NO.: 01

SOURCE: ON SITE

MATERIAL TYPE: ALTERNATE SELECT EXISTING MATERIAL

DATE: 21 day 04 month 95 year

SAMPLE NO.: S-21 QA ID: 2/R



CURVE COEFFICIENTS

(C_u) . . 7.0

(C_c) . . 1.7

ATTERBERG LIMITS

(LL) . . . . .

(PL) . . . . .

(PI) . . . . .

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	100.0
1-in.	94.1
3/4-in.	91.3
1/2-in.	87.4
3/8-in.	82.8
NO. 4	74.5
NO. 10	64.4
NO. 20	51.1
NO. 40	28.2
NO. 60	10.8
NO. 100	5.5
NO. 200	4.4

SOIL CLASSIFICATION (ASTM D 2487): SW - WELL GRADED 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 04 month 95 year

SOURCE: ON SITE MATERIAL TYPE: ALTERNATE SELECT EXISTING MATERIAL SAMPLE NO.: S-21 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)	10315	10468	10495		
B	WT. OF MOLD	(grams)	5843	5843	5843		
C	WT. OF SOIL = A - B	(grams)	4472	4625	4652		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	129.7	134.1	134.9		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	121.6	123.3	122.9		

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	7.8		
G	WT. OF WET SOIL & TARE	(grams)	598.6	674.3	702.5		
H	WT. OF DRY SOIL & TARE	(grams)	561.6	620.6	640.5		
I	WT. OF WATER = G - H	(grams)	37.0	53.7	62.0		
J	WT. DRY SOIL = H - F	(grams)	553.7	612.6	632.7		
K	MOISTURE CONTENT = (I/J) X 100	(%)	6.7%	8.8%	9.8%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

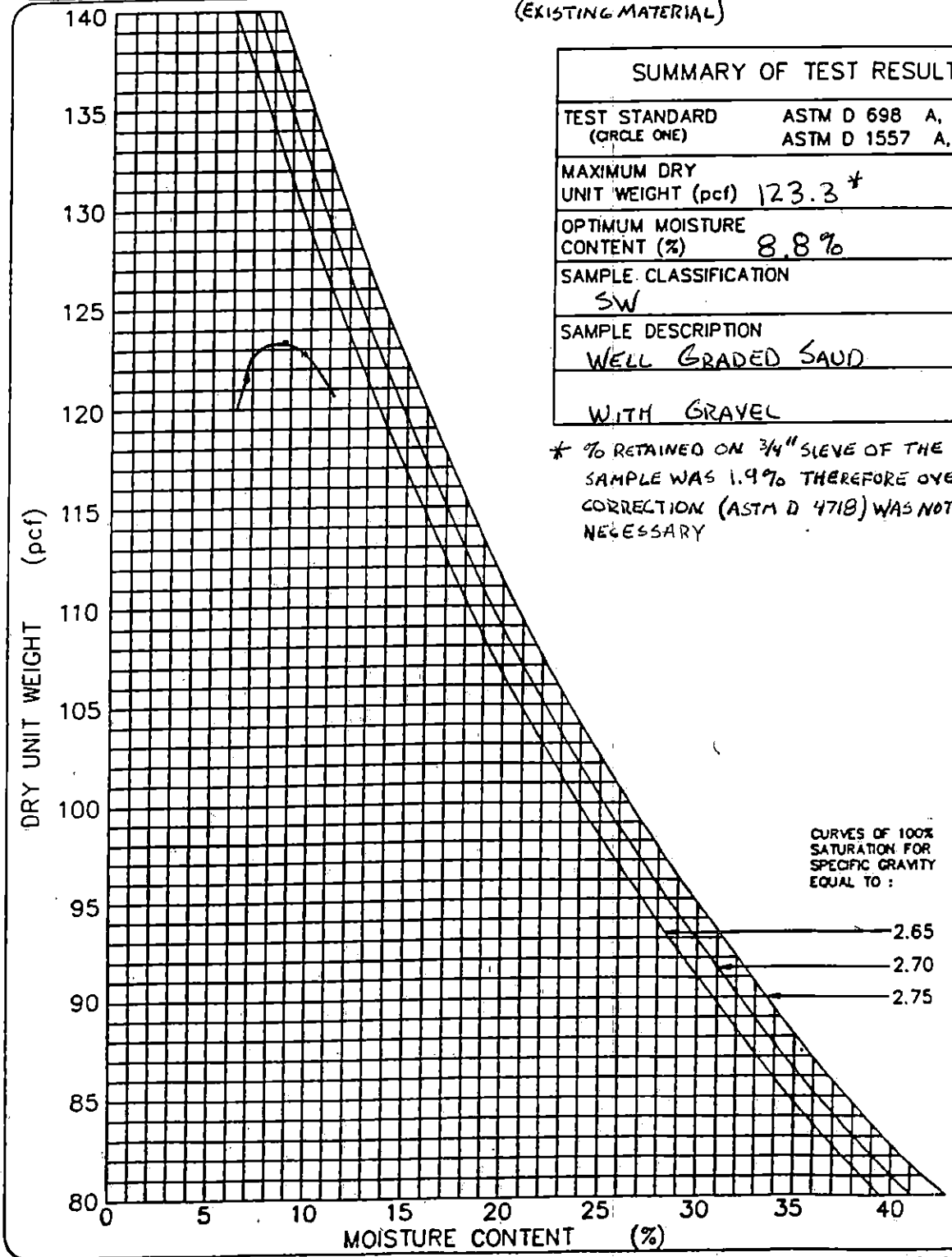
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day 04 month 95 year

SOURCE: ON SITE MATERIAL TYPE: ALT SELECT SAMPLE NO.: S-21 QA ID: DJR

(EXISTING MATERIAL)



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)	123.3 *
OPTIMUM MOISTURE CONTENT (%)	8.8%
SAMPLE CLASSIFICATION	SW
SAMPLE DESCRIPTION	WELL GRADED SAND WITH GRAVEL

* % RETAINED ON 3/4" SIEVE OF THE 25 Kg SAMPLE WAS 1.9% THEREFORE OVERSIZE CORRECTION (ASTM D 4718) WAS NOT NECESSARY

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 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-22 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)	2322.2	2056.8
WT. OF TARE	(grams)	17.5	57.6
WT. OF DRY SAMPLE	(grams)	2304.7	1999.2

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
3/4"	19.0	0.0	0.0	100.0%	
1/2"	12.5	89.3	3.9%	96.1%	
3/8"	9.5	173.3	7.5%	92.5%	
4	4.75	393.4	17.1%	82.9%	
10	2.0	613.0	26.6%	73.4%	
20	0.850	878.7	38.1%	61.9%	
40	0.425	1345.4	58.4%	41.6%	
60	0.250	1752.9	76.1%	23.9%	
100	0.150	1922.1	83.4%	16.6%	
200	0.075	1992.9	86.5%	13.5%	

%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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

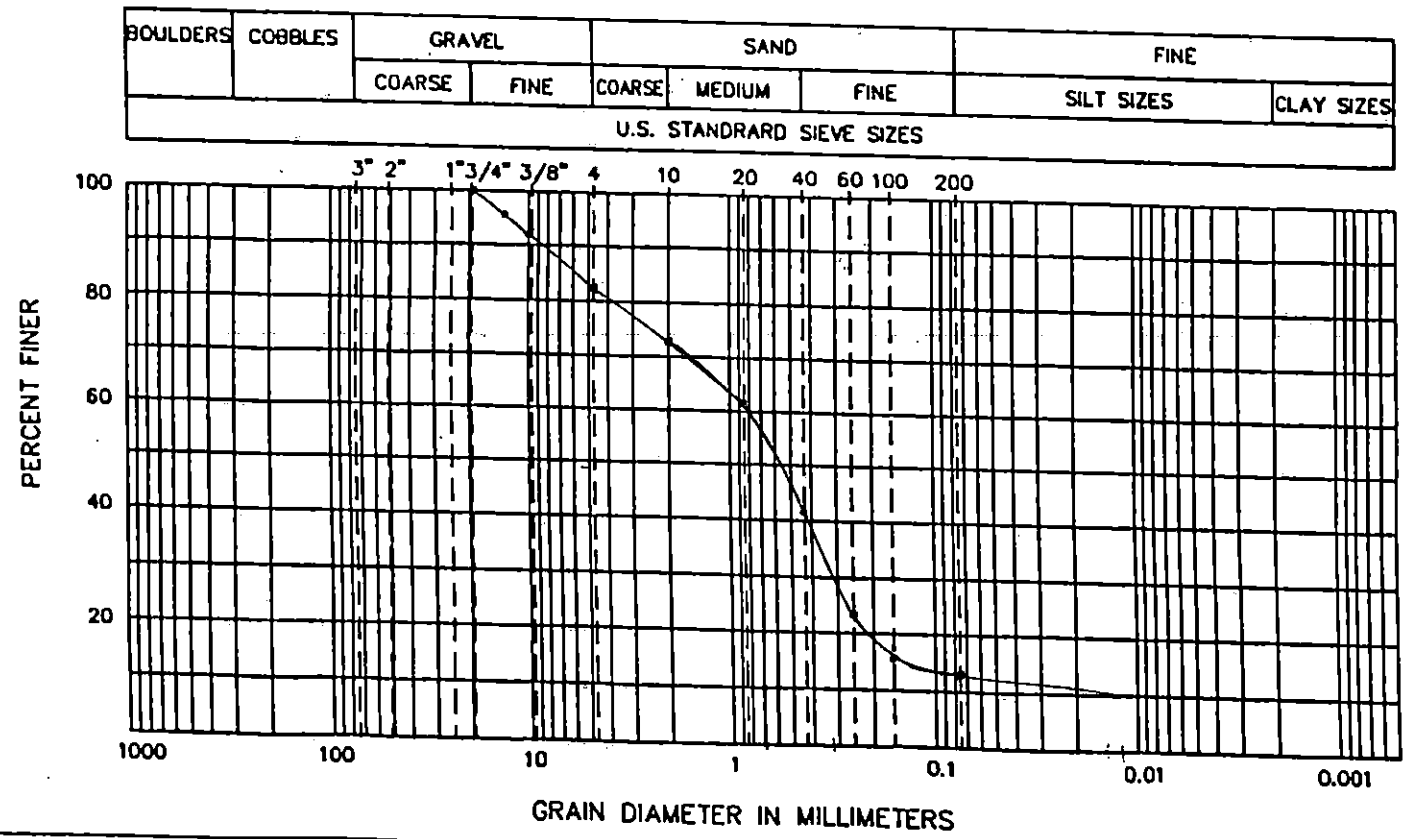
SOURCE: R. SCHLEIDER

MATERIAL TYPE: ALTERNATE SELECT

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 25 day 04 month 95 year

SAMPLE NO.: S-22 QA ID: DAR



CURVE COEFFICIENTS

(C_u) 56

(C_c) 11.7

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.	92.5
NO. 4	82.9
NO. 10	73.4
NO. 20	61.9
NO. 40	41.6
NO. 60	23.9
NO. 100	16.6
NO. 200	13.5

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: 25 day 04 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-22 — 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	10702	10634		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4724	4857	4789		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	137.0	140.9	138.9		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	129.2	131.7	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	8.0		
G	WT. OF WET SOIL & TARE	(grams)	688.1	767.8	692.1		
H	WT. OF DRY SOIL & TARE	(grams)	649.5	718.0	624.2		
I	WT. OF WATER = G - H	(grams)	38.6	49.8	67.9		
J	WT. DRY SOIL = H - F	(grams)	641.5	709.9	616.2		
K	MOISTURE CONTENT = (I/J) X 100	(%)	6.0%	7.0%	11.0%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

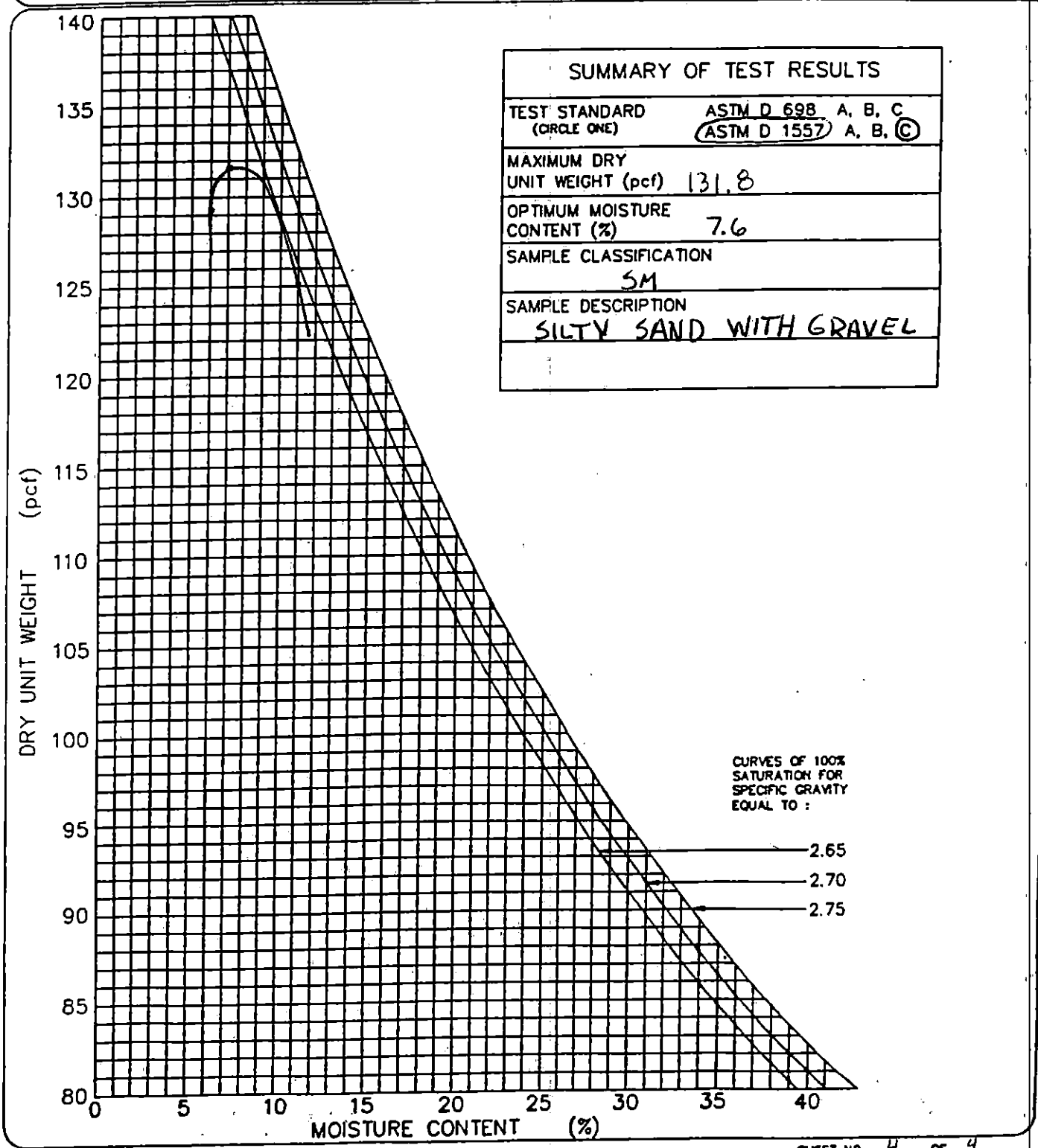
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 25 day 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-22 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)	131.8
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: 28 day 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-23 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)	1391.6	1184.4
WT. OF TARE	(grams)	57.0	56.9
WT. OF DRY SAMPLE	(grams)	1334.6	1127.5

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
3/4"	19.0	0.0	0.0	100.0%	
1/2"	12.5	71.6	5.4	94.6%	
3/8"	9.5	133.5	10.0	90.0%	
4	4.750	286.6	21.5	78.5%	
10	2.0	414.9	31.1	68.9%	
20	0.850	555.6	41.6	58.4%	
40	0.425	785.6	58.9	41.1%	
60	0.250	983.2	73.7	26.3%	
100	0.150	1078.5	80.8	19.2%	
200	0.075	1125.0	84.3	15.7%	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

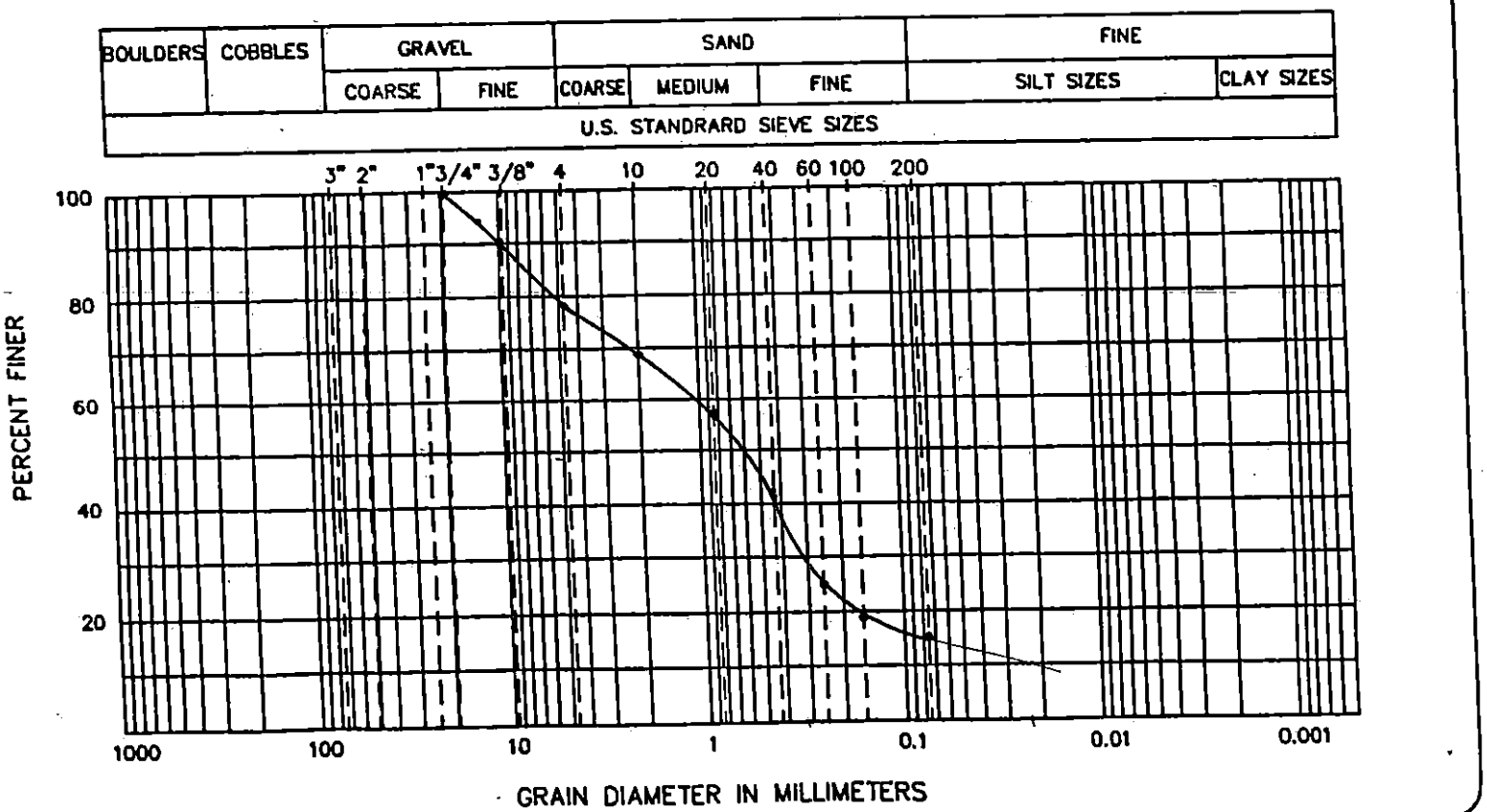
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 28 day 04 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-23 — QA ID: D/R



CURVE COEFFICIENTS

(C_u) 54.5

(C_c) 3.8

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.	90.0
NO. 4	78.5
NO. 10	68.9
NO. 20	58.4
NO. 40	41.1
NO. 60	26.3
NO. 100	19.2
NO. 200	15.7

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 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-23 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)	10686	10724	10731	10625	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4841	4879	4886	4780	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	140.4	141.5	141.7	138.6	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	132.3	132.4	130.8	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)	8.4	8.0	8.2	7.9	
G	WT. OF WET SOIL & TARE	(grams)	671.1	643.7	677.2	739.8	
H	WT. OF DRY SOIL & TARE	(grams)	632.8	602.6	626.0	666.4	
I	WT. OF WATER = G - H	(grams)	38.3	41.1	51.2	73.4	
J	WT. DRY SOIL = H - F	(grams)	624.4	594.6	617.8	658.5	
K	MOISTURE CONTENT = (I/J) X 100	(%)	6.1%	6.9%	8.3%	11.1%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

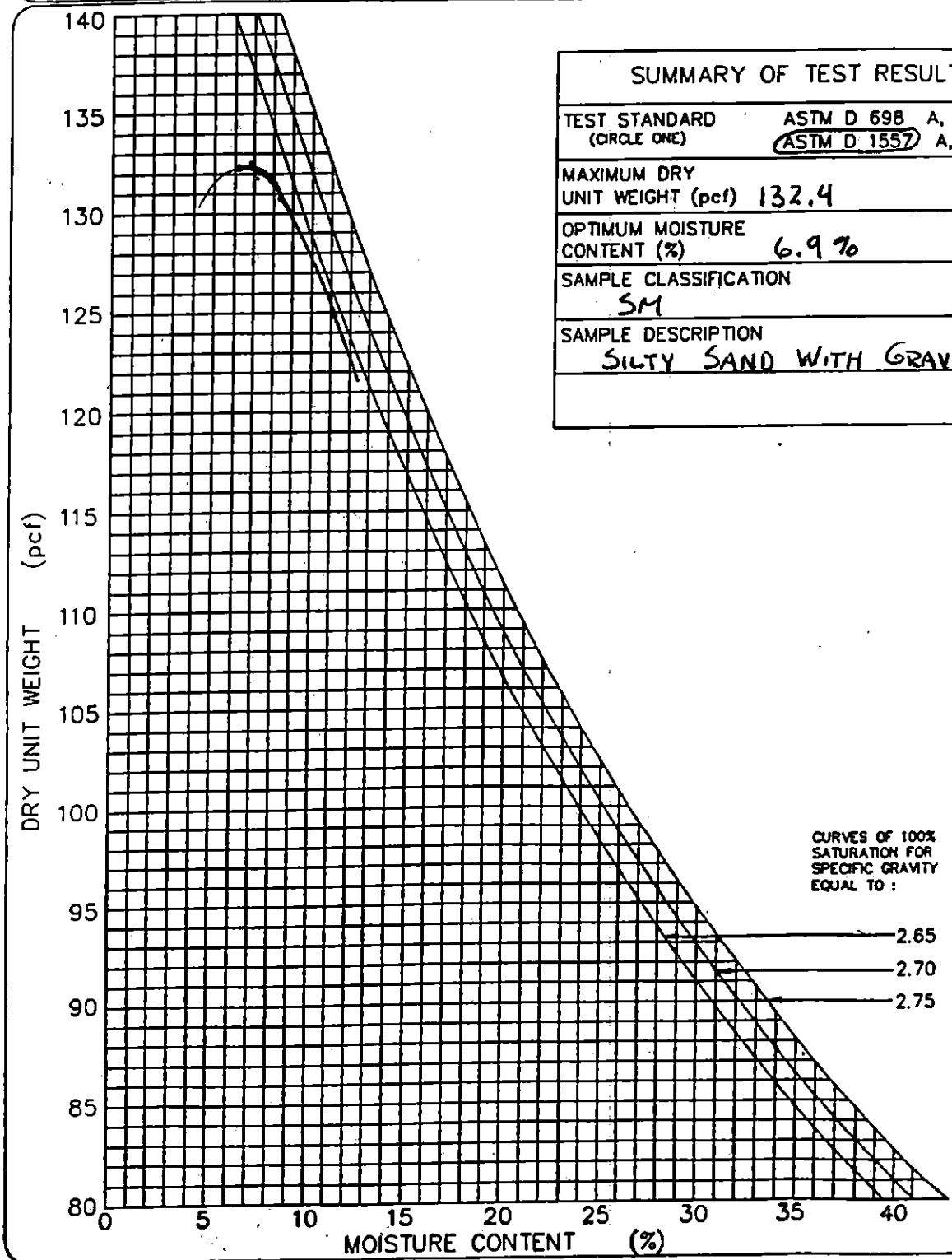
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 28 day 04 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-23 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)	132.4
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: 02 day 05 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-24 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)	2303.8	1998.2
WT. OF TARE	(grams)	19.3	57.4
WT. OF DRY SAMPLE	(grams)	2284.5	1941.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0 %	
1 1/2"	37.5	0.0	0.0	100.0 %	
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	4.7	95.3 %	
3/8"	9.5	177.6	7.8	92.2 %	
4	4.75	393.1	17.2	82.8 %	
10	2.0	644.7	28.2	71.8 %	
20	0.850	931.2	40.8	59.2 %	
40	0.425	1373.2	60.1	39.9 %	
60	0.250	1725.3	75.5	24.5 %	
100	0.150	1882.3	82.4	17.6 %	
200	0.075	1935.6	84.7	15.3 %	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

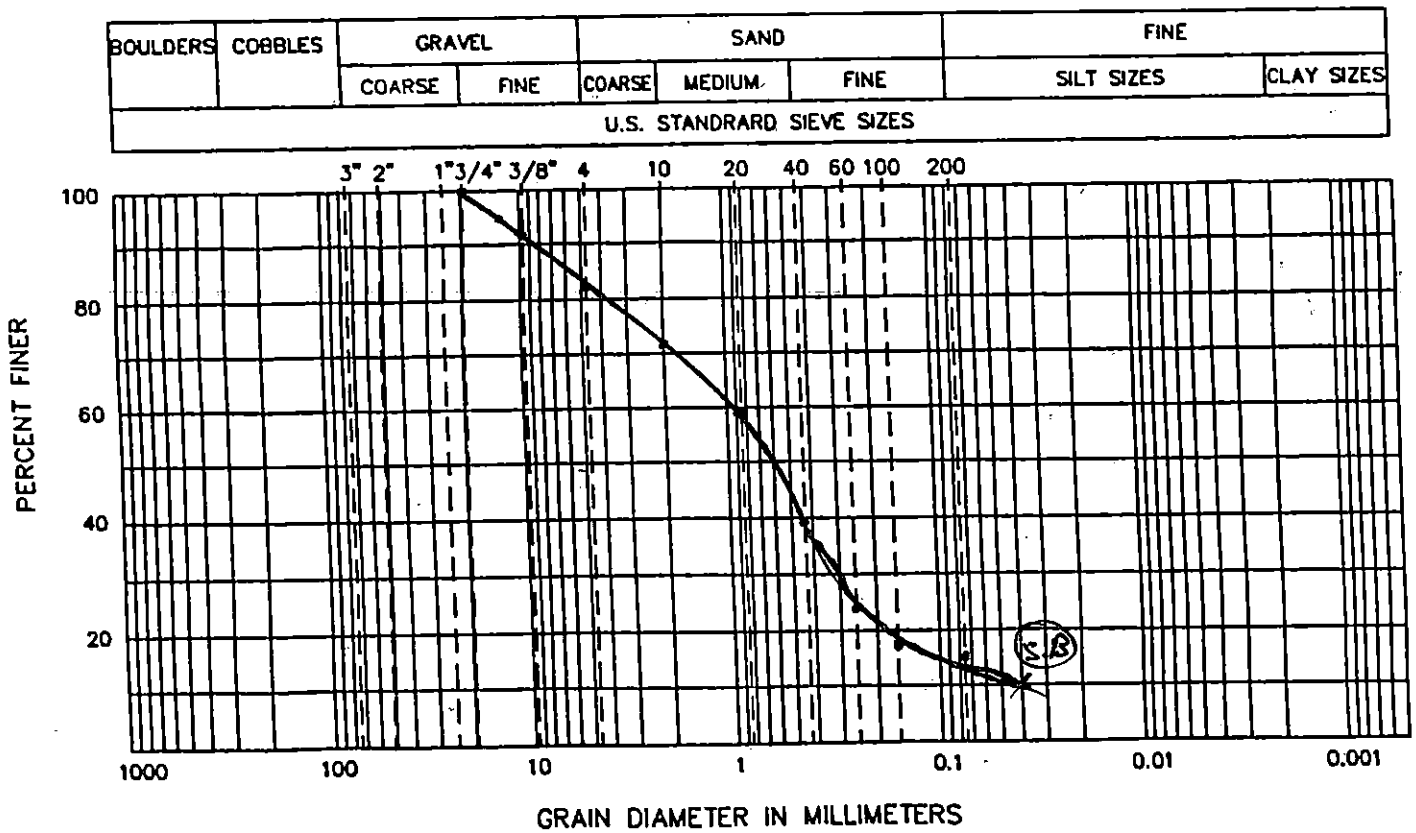
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 02 day 05 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALT. SELECT — SAMPLE NO.: S-24 — QA ID: DAR



CURVE COEFFICIENTS

(C_u) 23.8

(C_c) 3.0

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	100.0
1 1/2-in.	100.0
1-in.	100.0
3/4-in.	100.0
1/2-in.	95.3
3/8-in.	92.2
NO. 4	82.8
NO. 10	71.8
NO. 20	59.2
NO. 40	39.9
NO. 60	24.5
NO. 100	17.6
NO. 200	15.3

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: 02 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-24 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)	10522	10745	10675		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4677	4900	4830		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	135.6	142.1	140.1		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	127.2	130.7	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)	7.9	8.1	7.9		
G	WT. OF WET SOIL & TARE	(grams)	631.5	591.2	653.9		
H	WT. OF DRY SOIL & TARE	(grams)	592.9	544.4	592.3		
I	WT. OF WATER = G - H	(grams)	38.6	46.8	61.6		
J	WT. DRY SOIL = H - F	(grams)	585.0	536.3	584.4		
K	MOISTURE CONTENT = (I/J) X 100	(%)	6.6%	8.7%	10.5%		

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TOWN OF HUNTINGTON

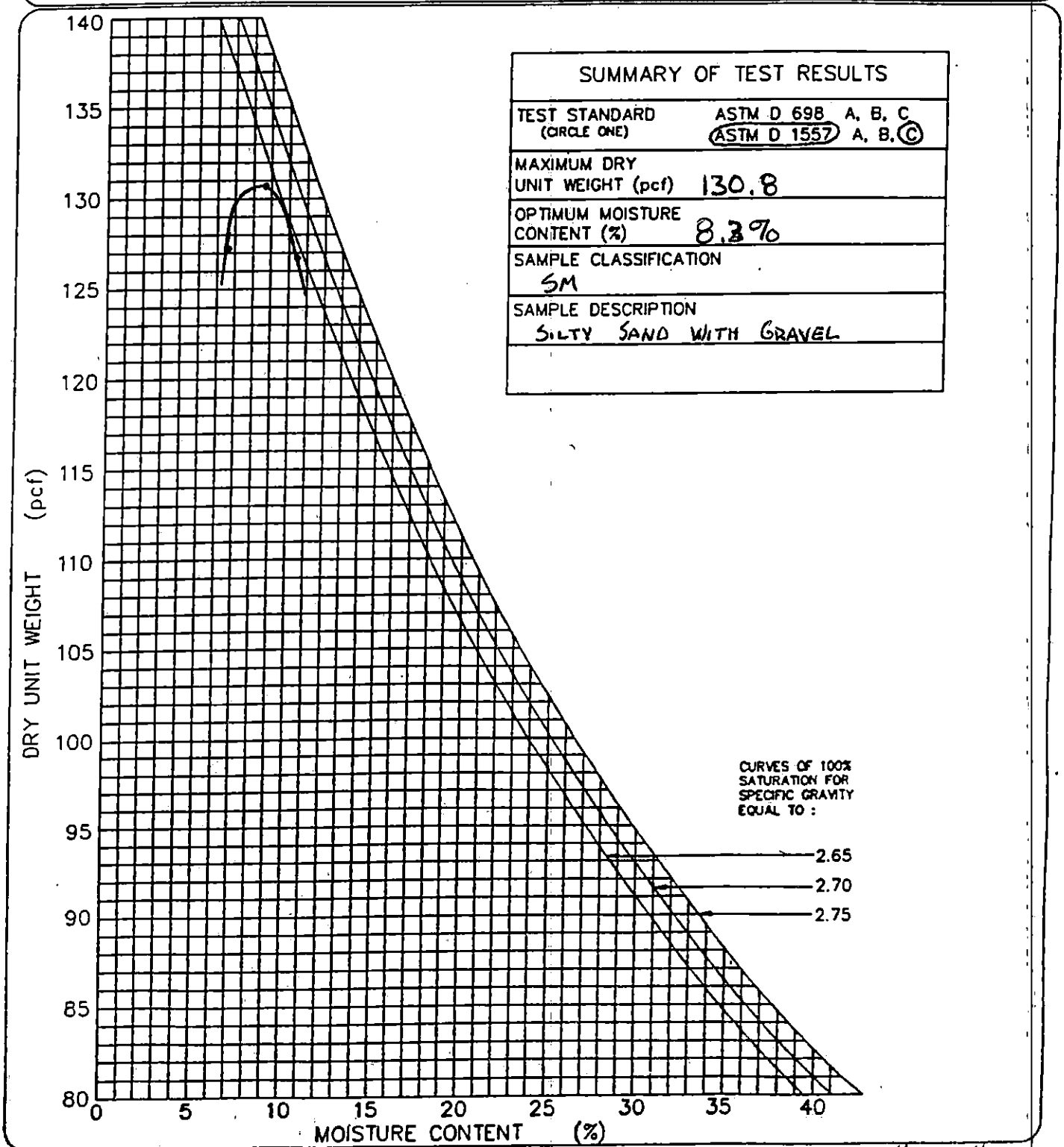
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 02 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-24 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)	130.8
OPTIMUM MOISTURE CONTENT (%)	8.3%
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: 05 day 05 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-25 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)	1670.8	1537.4
WT. OF TARE	(grams)	57.0	57.6
WT. OF DRY SAMPLE	(grams)	1613.8	1479.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0%	100.0%	
1½"	37.5	0.0	0.0%	100.0%	
1"	25.0	0.0	0.0%	100.0%	
¾"	19.0	0.0	0.0%	100.0%	
½"	12.5	27.3	1.7%	98.3%	
⅜"	9.5	51.5	3.2%	96.8%	
4	4.750	151.5	9.4%	90.6%	
10	2.0	298.7	18.5%	81.5%	
20	0.850	532.7	33.0%	67.0%	
40	0.425	948.0	58.7%	41.3%	
60	0.250	1295.5	80.3%	19.7%	
100	0.150	1422.6	88.2%	11.8%	
200	0.075	1466.5	90.9%	9.1%	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

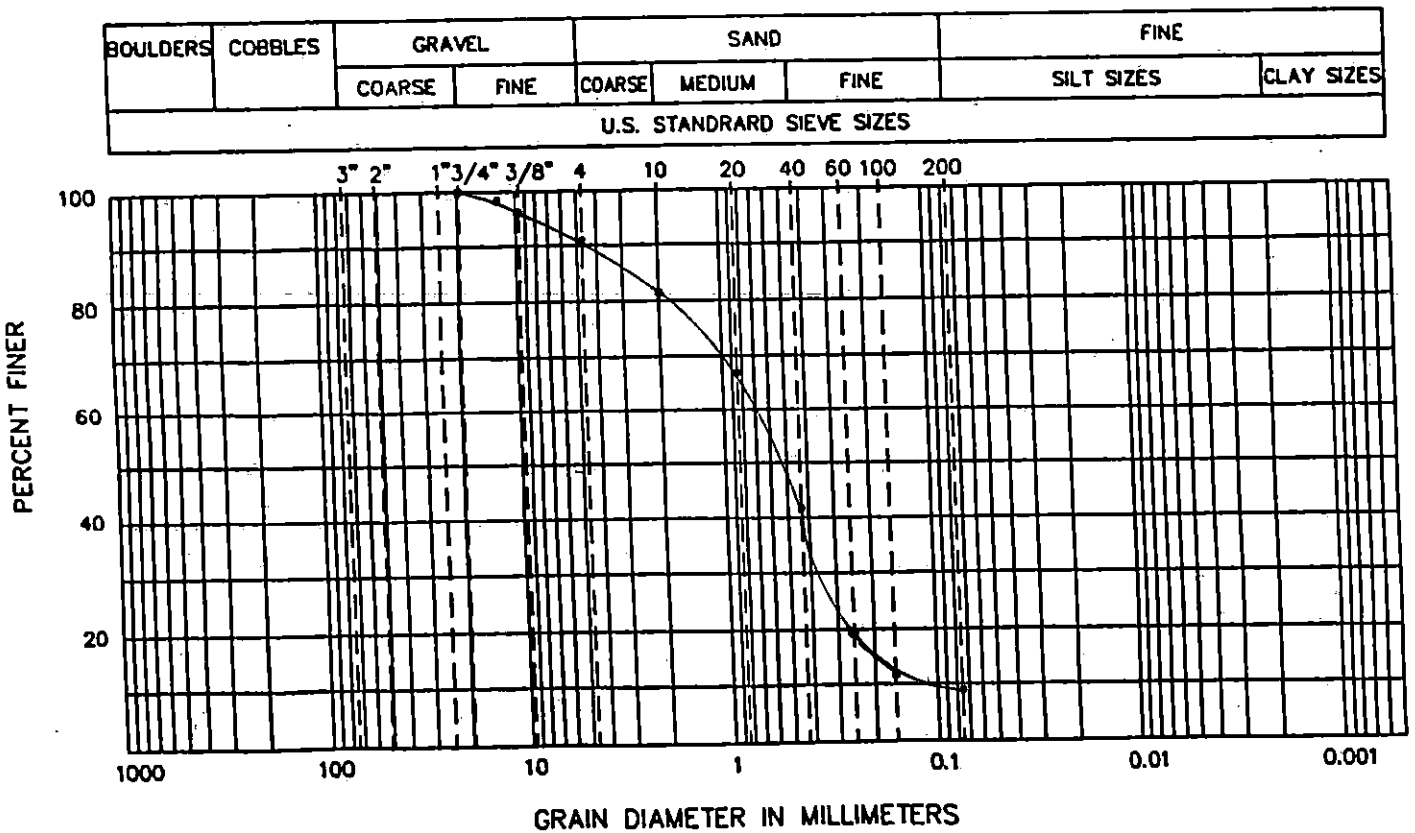
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-25 — QA ID: 2/17



CURVE COEFFICIENTS

(C_u) ... 6.1 ...

(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.	98.3
3/8-in.	96.8
NO. 4	90.6
NO. 10	81.5
NO. 20	67.0
NO. 40	41.3
NO. 60	19.7
NO. 100	11.8
NO. 200	9.1

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: 05 day 05 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-25 — QA ID: Z/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)	10385	10500	10525		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A − B	(grams)	4540	4655	4680		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	131.7	135.0	135.7		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	122.9	124.4	122.7		

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)	7.7	7.7	7.7		
G	WT. OF WET SOIL & TARE	(grams)	606.0	626.2	649.7		
H	WT. OF DRY SOIL & TARE	(grams)	566.0	577.8	588.2		
I	WT. OF WATER = G − H	(grams)	40.0	48.4	61.5		
J	WT. DRY SOIL = H − F	(grams)	558.3	570.1	580.5		
K	MOISTURE CONTENT = (I/J) X 100	(%)	7.2%	8.5%	10.6%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

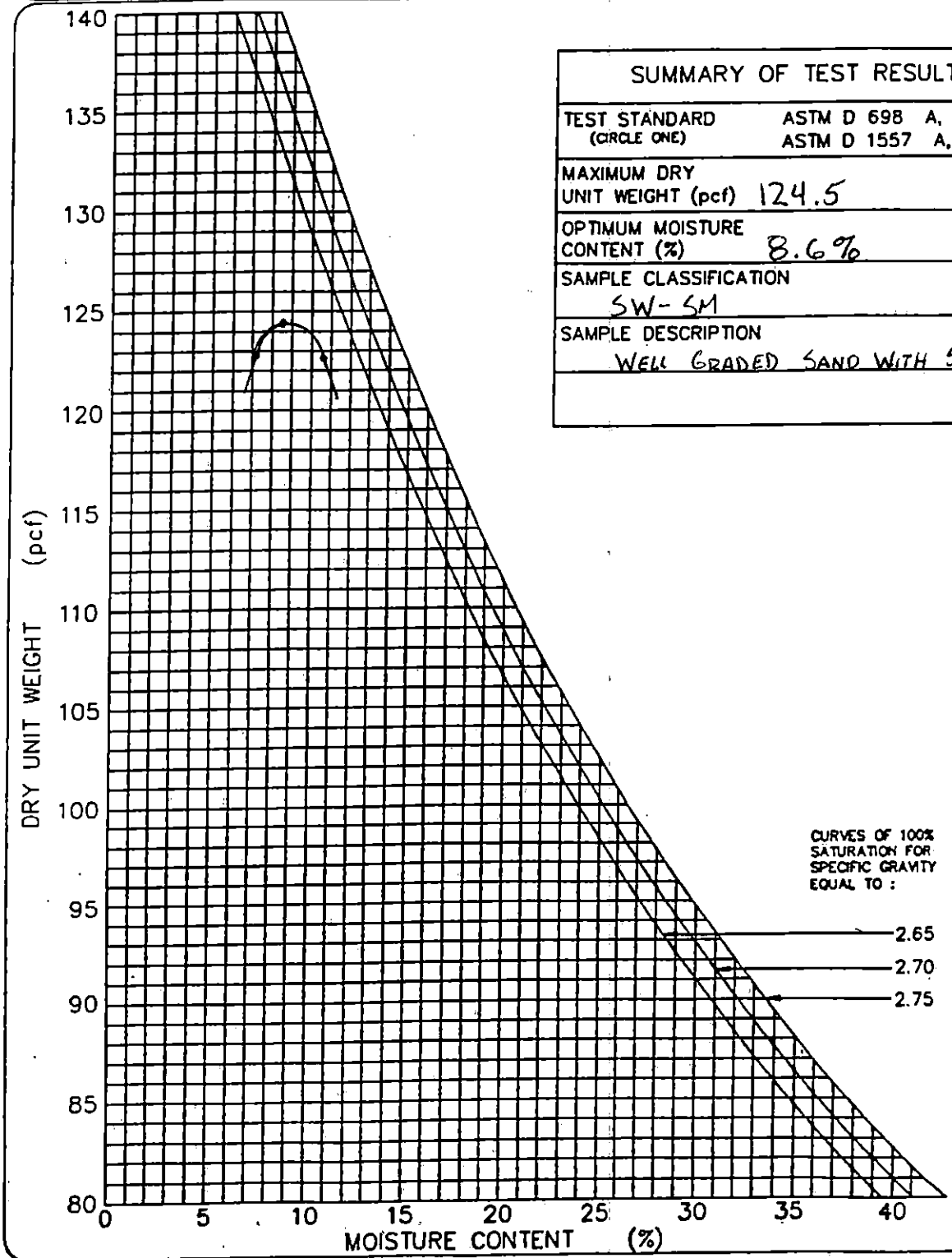
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-25 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)	124.5
OPTIMUM MOISTURE CONTENT (%)	8.6%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT



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 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT SELECT SAMPLE NO.: S-26 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)	2489.4	2328.1
WT. OF TARE	(grams)	192.5	192.5
WT. OF DRY SAMPLE	(grams)	2296.9	2135.6

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0%	
1 1/2"	37.5	0.0	0.0	100.0%	
1"	25.0	0.0	0.0	100.0%	
3/4"	19.0	0.0	0.0	100.0%	
1/2"	12.5	87.3	3.8	96.2%	
3/8"	9.5	157.4	6.9	93.1%	
4	4.750	469.5	20.4	79.6%	
10	2.0	780.2	34.0	66.0%	
20	0.850	1176.8	51.2	48.8%	
40	0.425	1685.0	73.4	26.6%	
60	0.250	1976.1	86.0	14.0%	
100	0.150	2075.7	90.4	9.6%	
200	0.075	2119.2	92.3	7.7%	

%FINER = 100 - Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

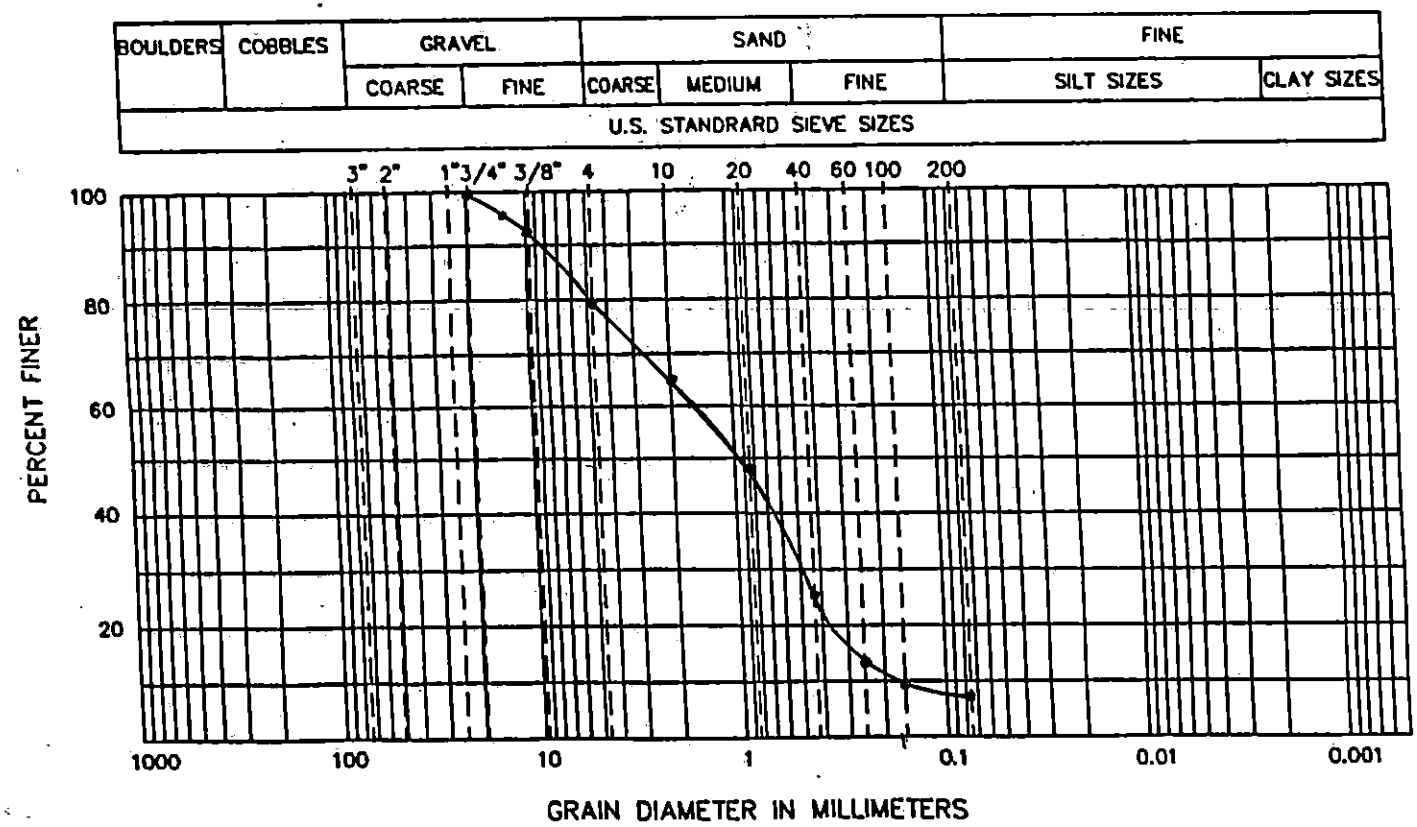
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 08 day 05 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-26 — QA ID: 2/R



CURVE COEFFICIENTS

(C_u) . . 10.0

(C_c) . . 1.02

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.	93.1 %
NO. 4	79.6 %
NO. 10	66.0 %
NO. 20	48.8 %
NO. 40	26.6 %
NO. 60	14.0 %
NO. 100	9.6 %
NO. 200	7.7 %

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: 08 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-26 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)	10455	10672	10665		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4610	4827	4820		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	133.7	140.0	139.8		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	126.3	130.5	127.4		

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	8.0	8.1		
G	WT. OF WET SOIL & TARE	(grams)	602.4	629.6	669.4		
H	WT. OF DRY SOIL & TARE	(grams)	569.4	587.3	610.9		
I	WT. OF WATER = G - H	(grams)	33.0	42.3	58.5		
J	WT. DRY SOIL = H - F	(grams)	561.4	579.3	602.8		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.9%	7.3%	9.7%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

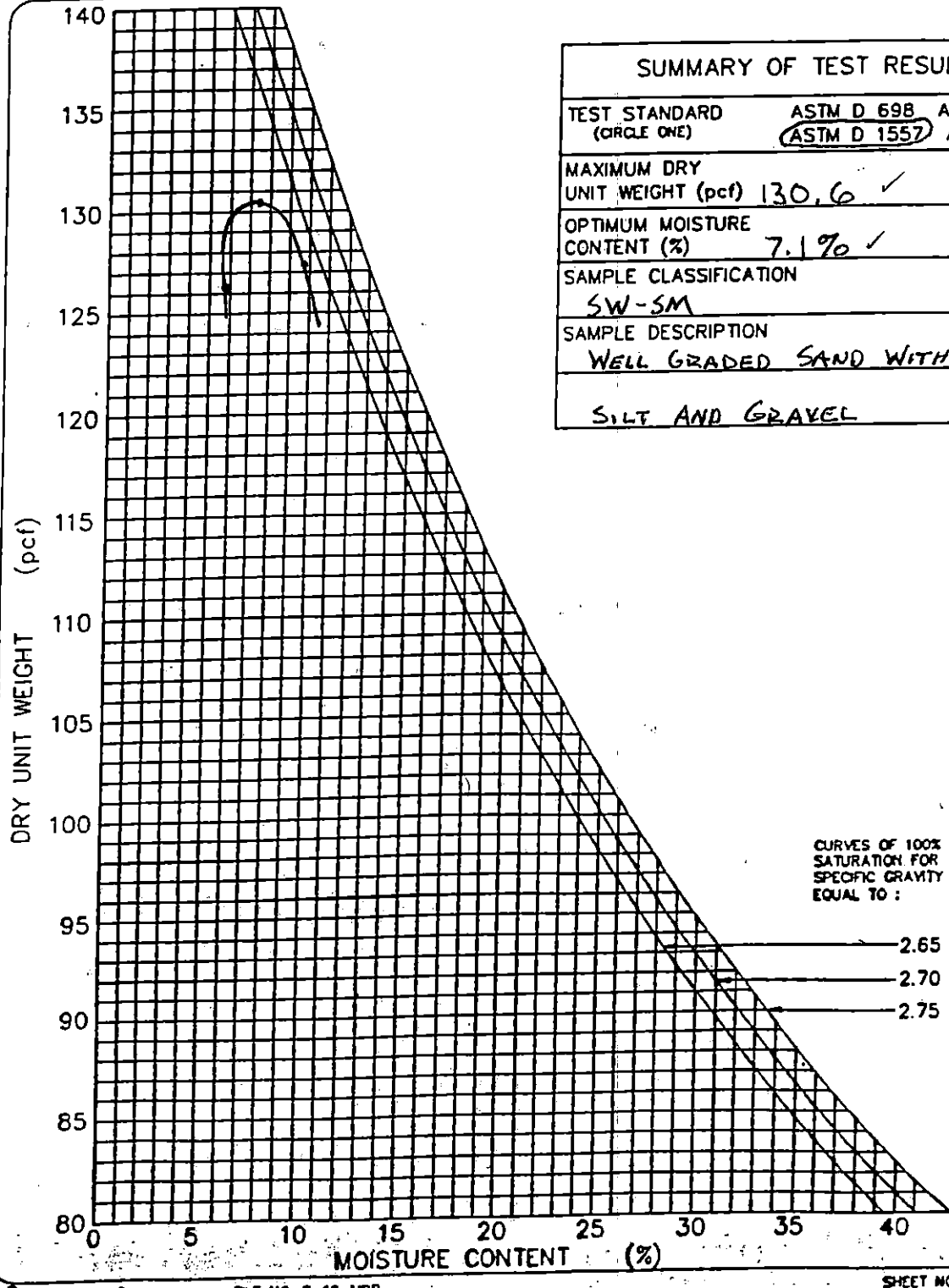
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 08 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-26 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)	130.6 ✓
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: 09 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-27 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)	2419.4	2146.0
WT. OF TARE	(grams)	193.8	60.0
WT. OF DRY SAMPLE	(grams)	2225.6	2086.0

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0%	
1 1/2"	37.5	0.0	0.0	100.0%	
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	2.2	97.8%	
3/8"	9.5	155.7	7.0	93.0%	
4	4.75	448.1	20.1	79.9%	
10	2.0	759.4	34.1	65.9%	
20	0.850	1166.1	52.4	47.6%	
40	0.425	1626.6	73.1	26.9%	
60	0.250	1909.3	85.8	14.2%	
100	0.150	2020.0	90.8	9.2%	
200	0.075	2071.4	93.1	6.9%	

%FINER = 100 - Σ% RETAINED

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GeoSyntec Consultants

TOWN OF HUNTINGTON

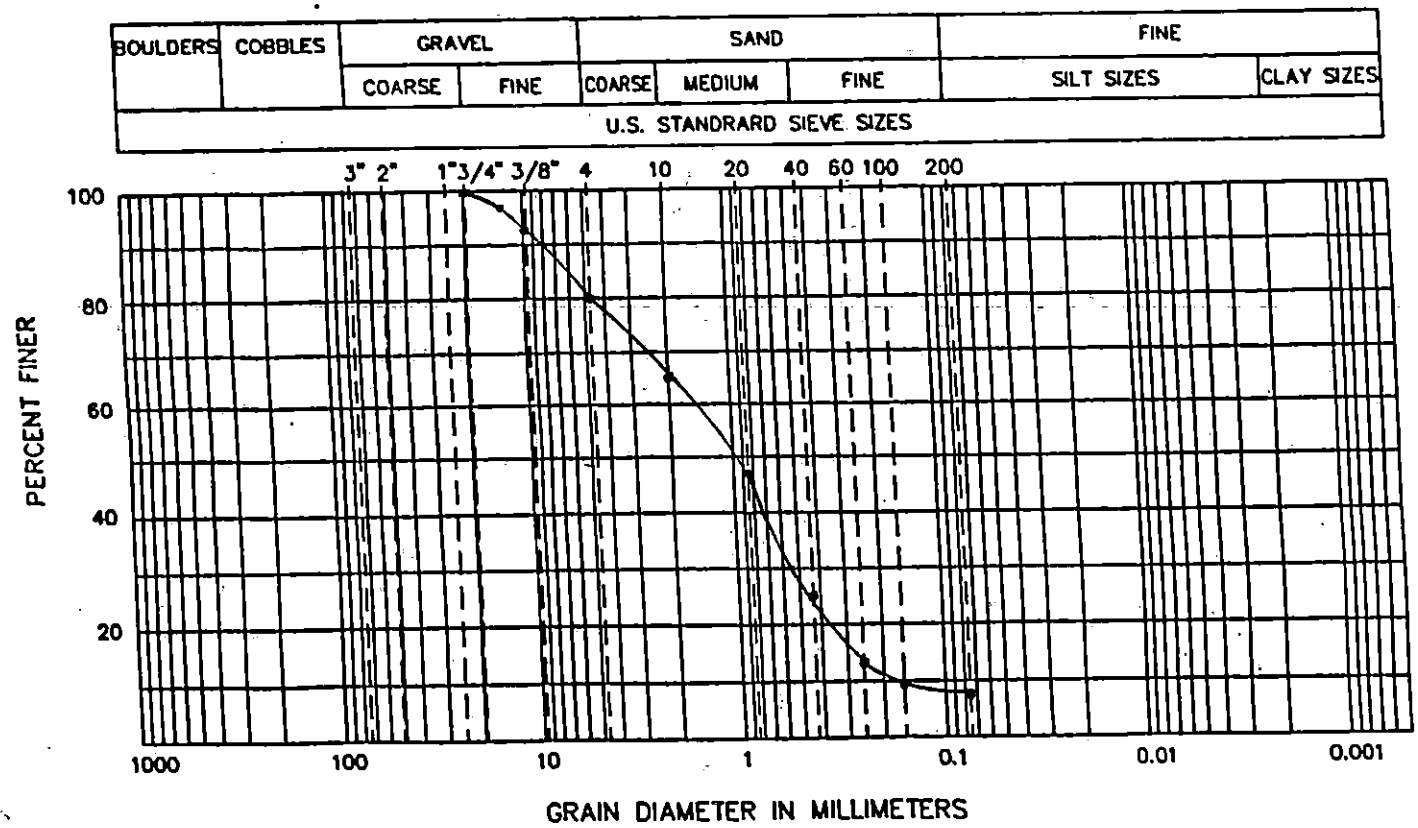
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 09 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-27 QA ID: DAB



CURVE COEFFICIENTS

(C_u) 9.1

(C_c) 1.15

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.	93.0
NO. 4	79.9
NO. 10	65.9
NO. 20	47.6
NO. 40	26.9
NO. 60	14.2
NO. 100	9.2
NO. 200	6.9

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: 09 day 05 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-27 — 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)	10485	10645	10661		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4640	4800	4816		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	134.6	139.2	139.7		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	127.6	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)	8.0	8.1	8.0		
G	WT. OF WET SOIL & TARE	(grams)	636.1	520.4	583.1		
H	WT. OF DRY SOIL & TARE	(grams)	603.2	485.6	534.7		
I	WT. OF WATER = G - H	(grams)	32.9	34.8	48.4		
J	WT. DRY SOIL = H - F	(grams)	595.2	477.5	526.7		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.5%	7.3%	9.2		

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TOWN OF HUNTINGTON

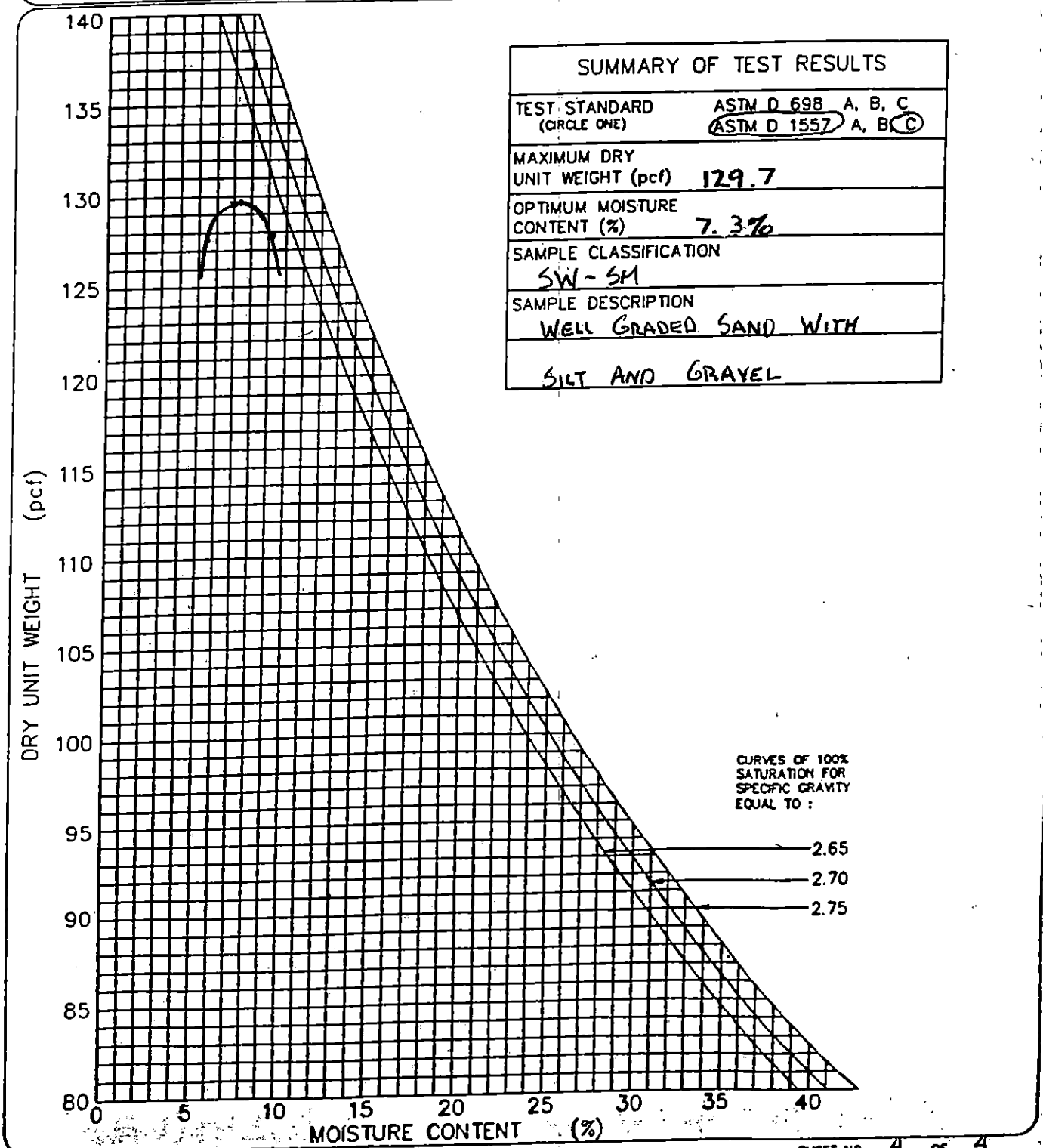
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 09 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-27 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)	129.7
OPTIMUM MOISTURE CONTENT (%)	7.3%
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: 10 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-28 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)	2372.3	2065.2
WT. OF TARE	(grams)	192.5	67.2
WT. OF DRY SAMPLE	(grams)	2179.8	1998.0

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0 %	
1½"	37.5	0.0	0.0	100.0 %	
1"	25.0	0.0	0.0	100.0 %	
¾"	19.0	0.0	0.0	100.0 %	
½"	12.5	44.6	2.0	98.0%	
⅜"	9.5	133.3	6.1	93.9%	
4	4.750	432.1	19.8	80.2%	
10	2.0	736.3	33.8	66.2%	
20	0.850	1084.2	49.7	50.3%	
40	0.425	1511.6	69.3	30.7%	
60	0.250	1805.3	82.8	17.2%	
100	0.150	1927.3	88.4	11.6%	
200	0.075	1986.7	91.1	8.9%	

%FINER = 100 − Σ% RETAINED

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TOWN OF HUNTINGTON

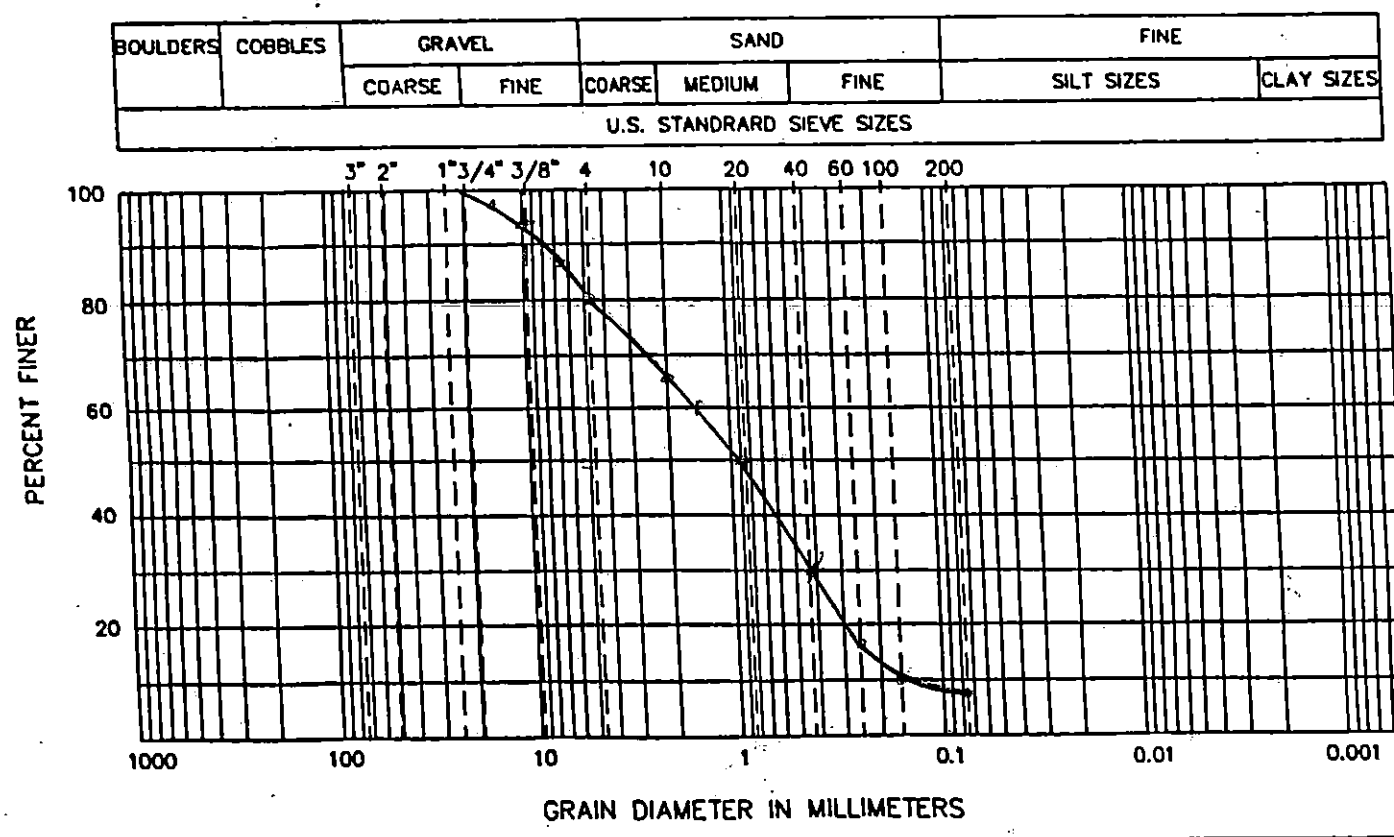
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 10 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-28 QA ID: D/R



CURVE COEFFICIENTS

(C_u) 9.3

(C_c) 1.1

ATTERBERG LIMITS

(LL)

(PL)

(PI)

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	100.0
1 1/2-in.	100.0
1-in.	100.0
3/4-in.	100.0
1/2-in.	98.0
3/8-in.	93.9
NO. 4	80.2
NO. 10	66.2
NO. 20	50.3
NO. 40	30.7
NO. 60	17.2
NO. 100	11.6
NO. 200	8.9

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: 10 day 05 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-28 — 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)	10500	10617	10632		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A − B	(grams)	4655	4772	4787		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	135.0	138.4	138.8		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	126.8	127.9	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)	7.8	7.9	7.9		
G	WT. OF WET SOIL & TARE	(grams)	581.3	624.8	678.8		
H	WT. OF DRY SOIL & TARE	(grams)	546.3	577.9	620.7		
I	WT. OF WATER = G − H	(grams)	35.0	46.9	58.1		
J	WT. DRY SOIL = H − F	(grams)	538.5	570.0	612.8		
K	MOISTURE CONTENT = (I/J) X 100	(%)	6.5%	8.2%	9.5%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

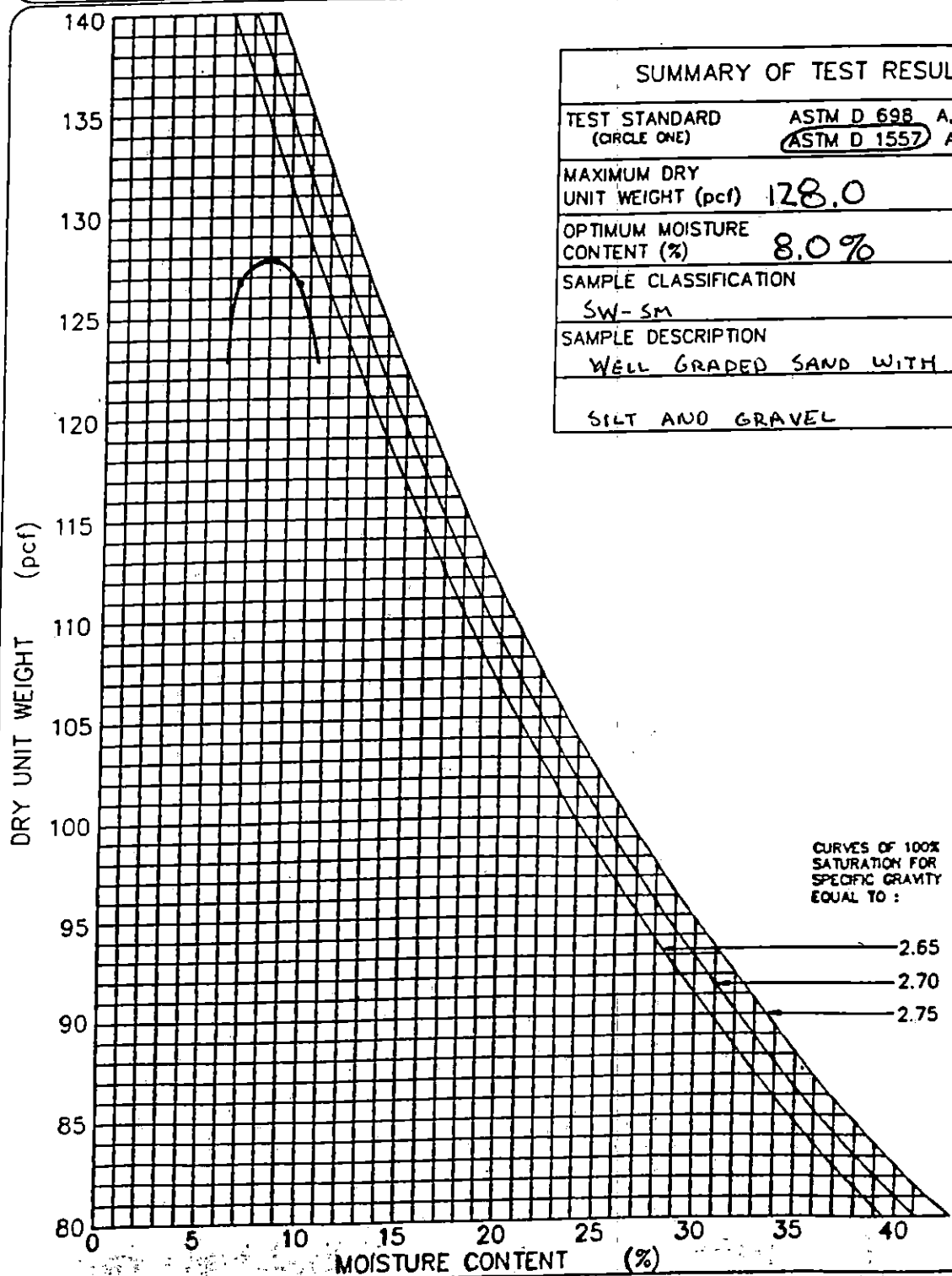
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 10 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-28 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)	128.0
OPTIMUM MOISTURE CONTENT (%)	8.0%
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: G03700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 12 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-29 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)	2270.0	2114.1
WT. OF TARE	(grams)	194.1	194.4
WT. OF DRY SAMPLE	(grams)	2075.9	1919.7

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0	
1½"	37.5	0.0	0.0	100.0	
1"	25.0	0.0	0.0	100.0	
¾"	19.0	0.0	0.0	100.0	
½"	12.5	36.7	1.8	98.2	
⅜"	9.5	123.8	6.0	94.0	
4	4.75	395.2	19.0	81.0	
10	2.00	635.3	30.6	69.4	
20	0.850	928.2	44.7	55.3	
40	0.425	1390.0	67.0	33.0	
60	0.250	1732.9	83.5	16.5	
100	0.150	1847.4	89.0	11.0	
200	0.075	1911.8	92.1	7.9	

%FINER = 100 - Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

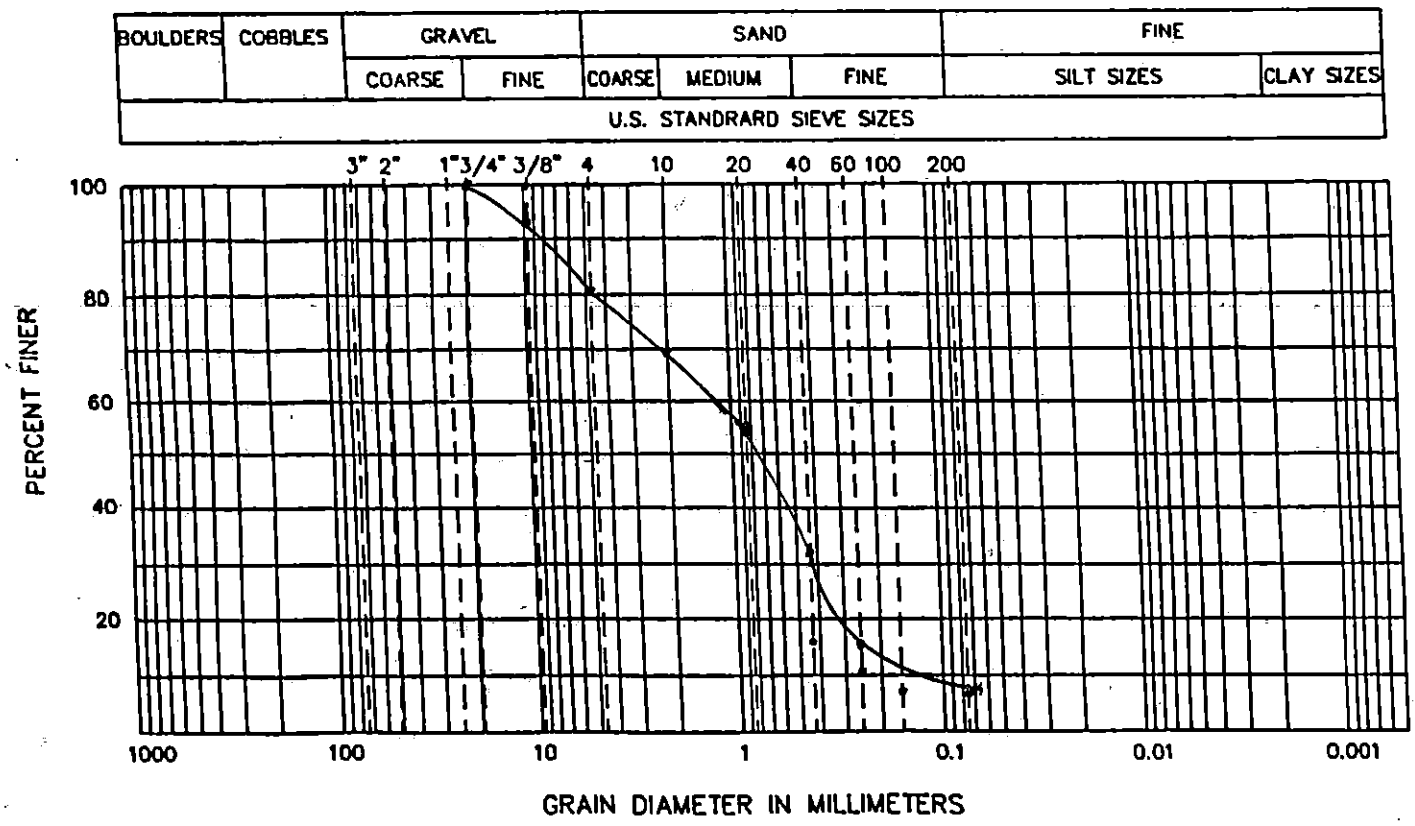
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 12 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-29 QA ID: 2/17



CURVE COEFFICIENTS

(C_u) 9.3

(C_c) 1.1

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.	98.2
3/8-in.	94.0
NO. 4	81.0
NO. 10	69.4
NO. 20	55.3
NO. 40	33.0
NO. 60	16.5
NO. 100	11.0
NO. 200	7.9

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: 12 day 05 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-29 — 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)	10285	10590	10534		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A − B	(grams)	4440	4745	4689		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	128.9	137.6	136.0		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	122.1	128.1	121.5		

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)	7.8	7.9	7.9		
G	WT. OF WET SOIL & TARE	(grams)	677.9	702.6	671.0		
H	WT. OF DRY SOIL & TARE	(grams)	642.4	655.0	600.7		
I	WT. OF WATER = G − H	(grams)	35.5	47.6	70.3		
J	WT. DRY SOIL = H − F	(grams)	634.6	647.1	592.8		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.6%	7.4%	11.9%		

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TOWN OF HUNTINGTON

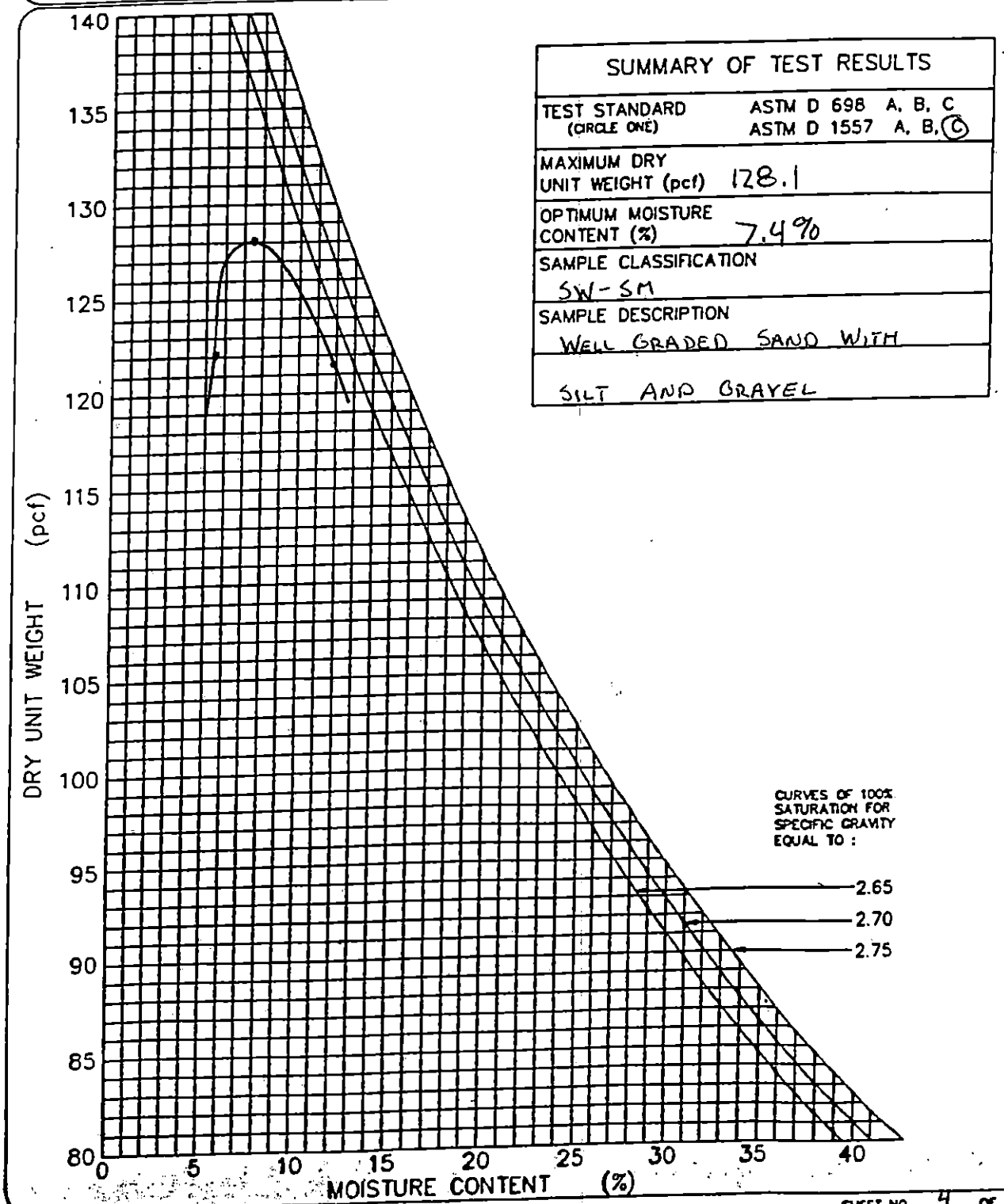
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 12 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-29 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 (%)	7.4%
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: G03700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 15 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-30 QA ID: PR

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)	2290.0	2140.6
WT. OF TARE	(grams)	192.6	192.9
WT. OF DRY SAMPLE	(grams)	2097.4	1947.7

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
2"	50.0	0.0	0.0	100.0	
1½"	37.5	0.0	0.0	100.0	
1"	25.0	0.0	0.0	100.0	
¾"	19.0	0.0	0.0	100.0	
½"	12.5	59.8	2.9	97.1	
⅜"	9.5	129.5	6.2	93.8	
4	4.75	394.7	18.8	81.2	
10	2.00	654.2	31.1	68.9	
20	0.850	968.7	46.2	53.8	
40	0.425	1447.2	69.0	31.0	
60	0.250	1781.5	84.9	15.1	
100	0.150	1890.5	90.1	9.9	
200	0.075	1936.7	92.3	7.7	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

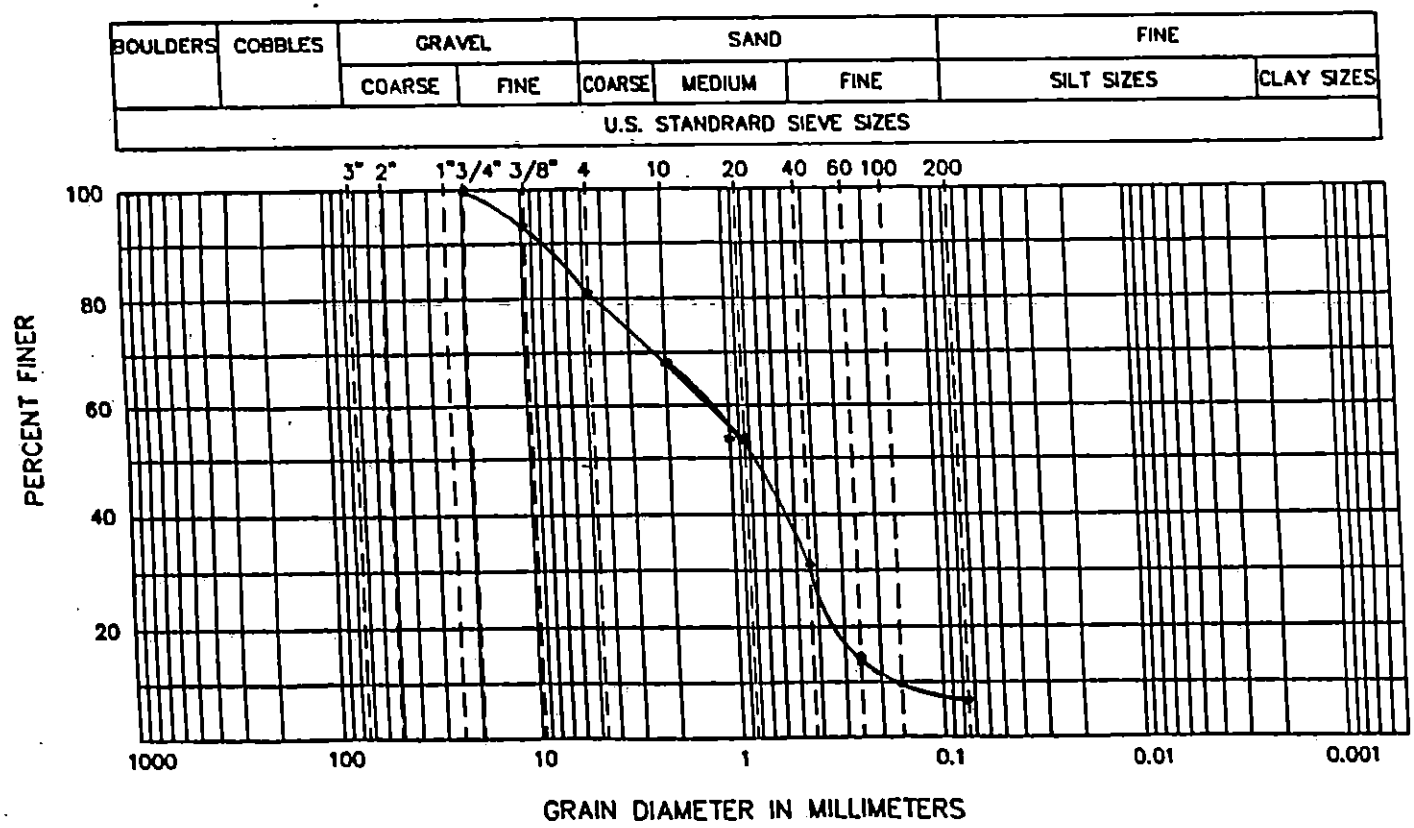
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 15 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-30 QA ID: D/R



CURVE COEFFICIENTS

(C_u) 8.0

(C_c) 1.03

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.	93.8
NO. 4	81.2
NO. 10	69.9
NO. 20	53.8
NO. 40	31.0
NO. 60	15.1
NO. 100	9.9
NO. 200	7.7

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: 15 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-30 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)	10492	10629	10565		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4647	4784	4720		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	134.8	138.7	136.9		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	127.3	128.2	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)	8.2	8.1	8.1		
G	WT. OF WET SOIL & TARE	(grams)	560.4	662.9	691.7		
H	WT. OF DRY SOIL & TARE	(grams)	529.7	613.2	627.3		
I	WT. OF WATER = G - H	(grams)	30.7	49.7	64.4		
J	WT. DRY SOIL = H - F	(grams)	521.5	605.1	619.2		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.9%	8.2%	10.4%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

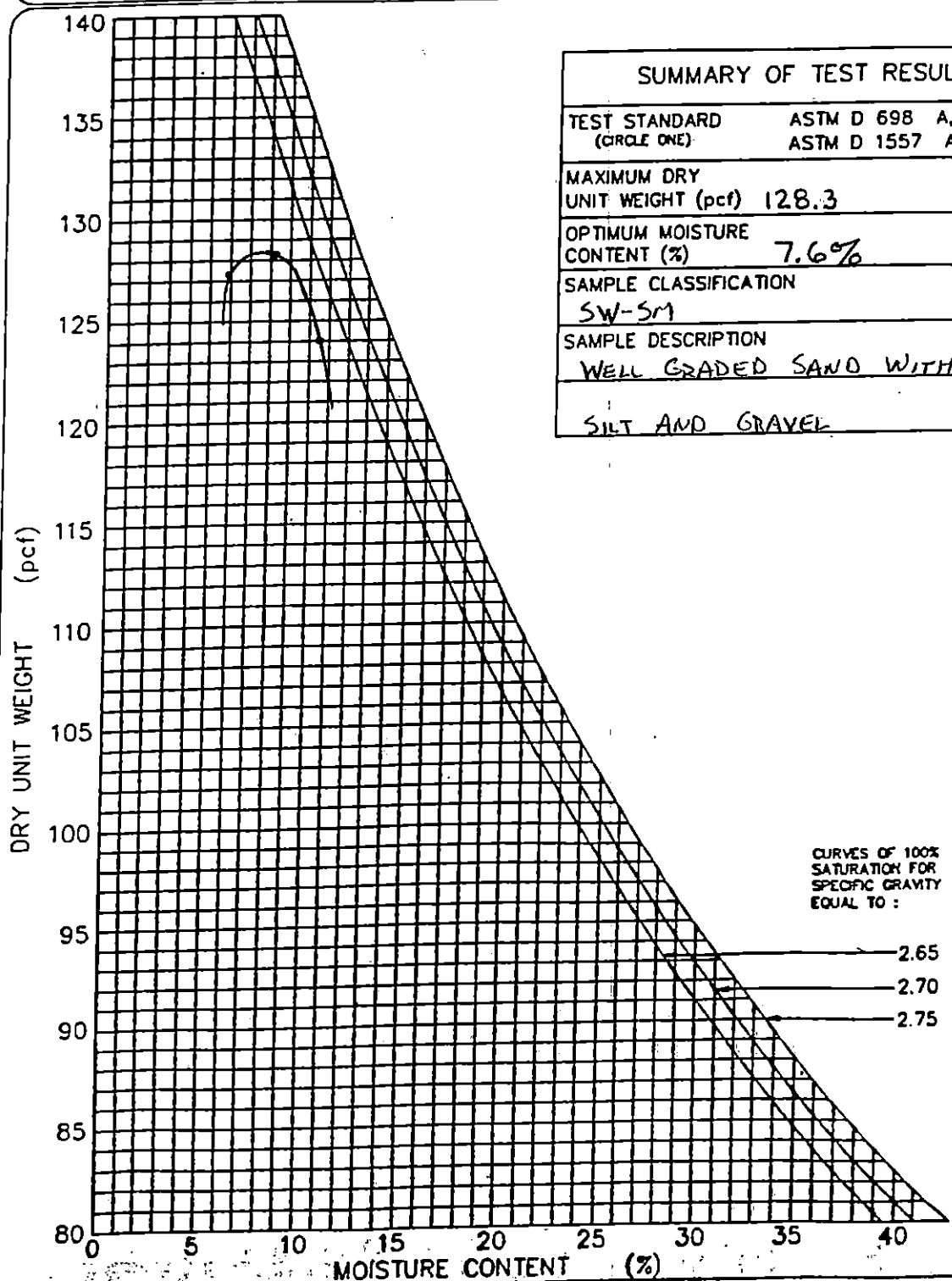
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 15 day 05 month 93 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ACT SELECT SAMPLE NO.: S-30 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)	128.3
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: 17 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-31 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)	1931.9	1494.8
WT. OF TARE	(grams)	192.8	20.3
WT. OF DRY SAMPLE	(grams)	1739.1	1474.5

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	
3/8"	9.5	104.3	6.0	94.0	
4	4.75	251.6	14.5	85.5	
10	2.0	408.4	23.5	76.5	
20	0.850	616.2	35.4	64.6	
40	0.425	990.0	56.9	43.1	
60	0.250	1285.7	73.9	26.1	
100	0.150	1418.0	81.5	18.5	
200	0.075	1473.2	84.7	15.3	

%FINER = 100 − Σ% RETAINED

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TOWN OF HUNTINGTON

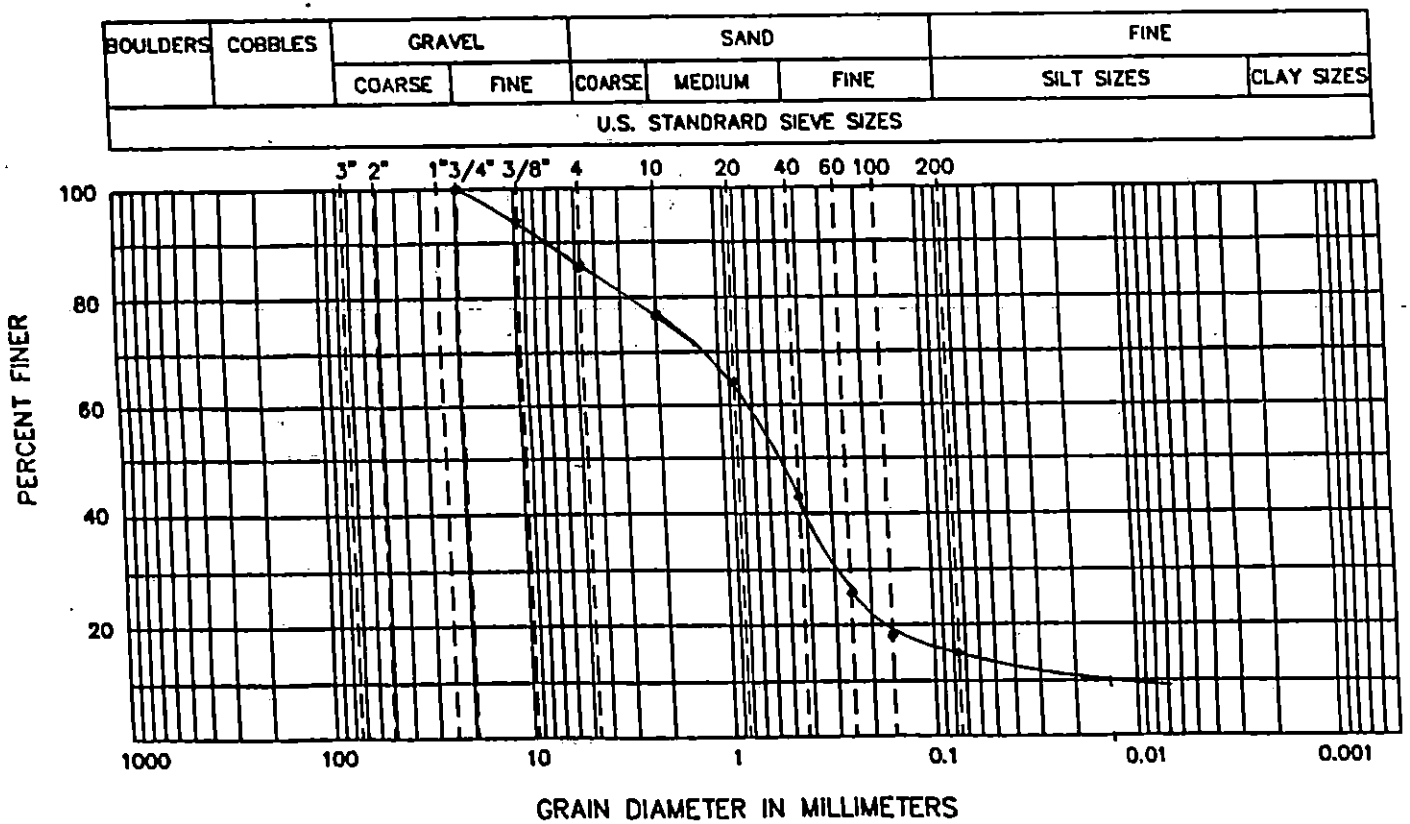
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 17 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-31 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.	—
3/8-in.	94.0
NO. 4	85.5
NO. 10	76.5
NO. 20	64.6
NO. 40	43.1
NO. 60	26.1
NO. 100	18.5
NO. 200	15.3

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: 17 day 05 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-31 — 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)	10575	10752	10601		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4730	4907	4756		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	137.2	142.3	137.9		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	128.6	131.5	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	8.1		
G	WT. OF WET SOIL & TARE	(grams)	524.3	616.2	546.5		
H	WT. OF DRY SOIL & TARE	(grams)	492.0	570.3	496.0		
I	WT. OF WATER = G - H	(grams)	32.3	45.9	50.5		
J	WT. DRY SOIL = H - F	(grams)	483.9	562.2	487.9		
K	MOISTURE CONTENT = (I/J) X 100	(%)	6.7%	8.2%	10.4%		

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TOWN OF HUNTINGTON

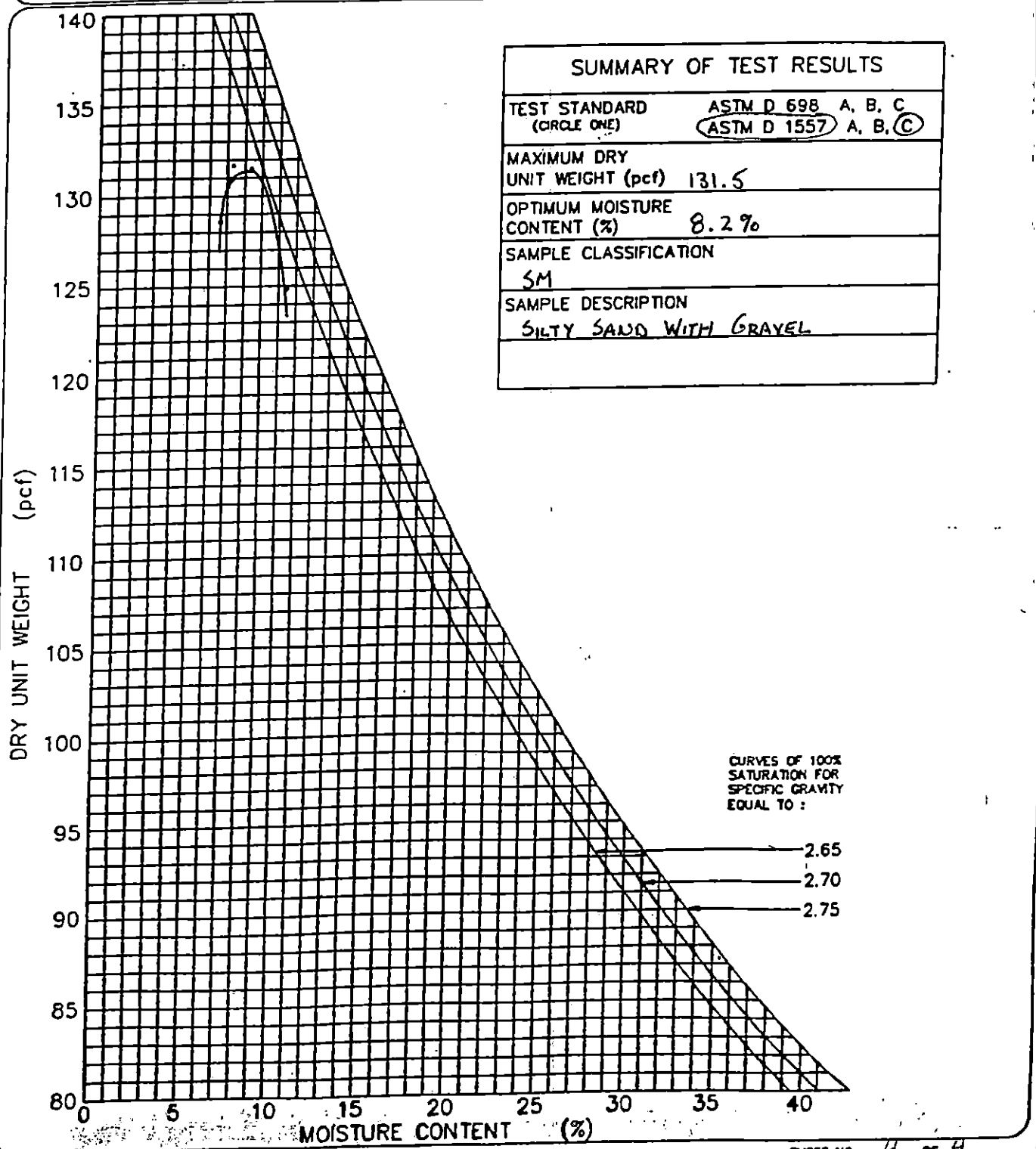
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 17 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-31 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)	131.5
OPTIMUM MOISTURE CONTENT (%)	8.2%
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: 18 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-32 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)	1711.2	1569.6
WT. OF TARE	(grams)	193.4	191.5
WT. OF DRY SAMPLE	(grams)	1517.8	1378.1

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	
3/8"	9.5	113.3	7.5	92.5	
4	4.75	261.4	17.2	82.8	
10	2.0	422.4	27.8	72.2	
20	0.850	616.3	40.6	59.4	
40	0.425	963.8	63.5	36.5	
60	0.250	1237.2	81.5	18.5	
100	0.150	1341.2	88.4	11.6	
200	0.075	1375.1	90.6	9.4	

%FINER = 100 - Σ % RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

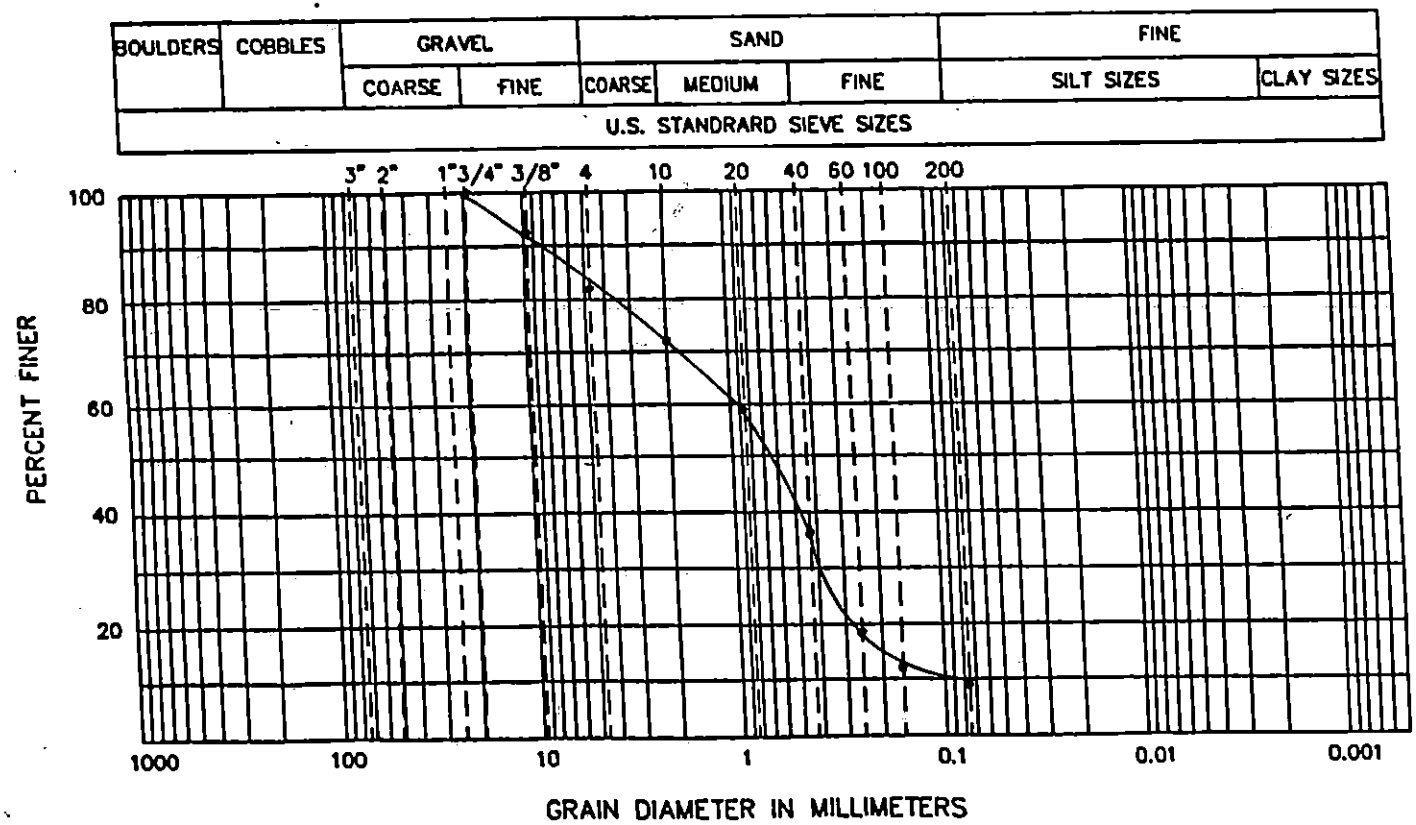
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 18 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-32 QA ID: DJR



CURVE COEFFICIENTS

(C_u) 11.4

(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.	—
3/8-in.	92.5
NO. 4	82.8
NO. 10	72.2
NO. 20	59.4
NO. 40	36.5
NO. 60	18.5
NO. 100	11.6
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: 18 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-32 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)	10352	10464	10551		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4507	4619	4706		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	130.7	134.0	136.5		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.5	125.4	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	7.9	8.0		
G	WT. OF WET SOIL & TARE	(grams)	555.8	616.1	661.8		
H	WT. OF DRY SOIL & TARE	(grams)	525.9	577.0	607.9		
I	WT. OF WATER = G - H	(grams)	29.9	39.1	53.9		
J	WT. DRY SOIL = H - F	(grams)	518.0	569.1	599.9		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.8%	6.9%	9.0%		

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TOWN OF HUNTINGTON

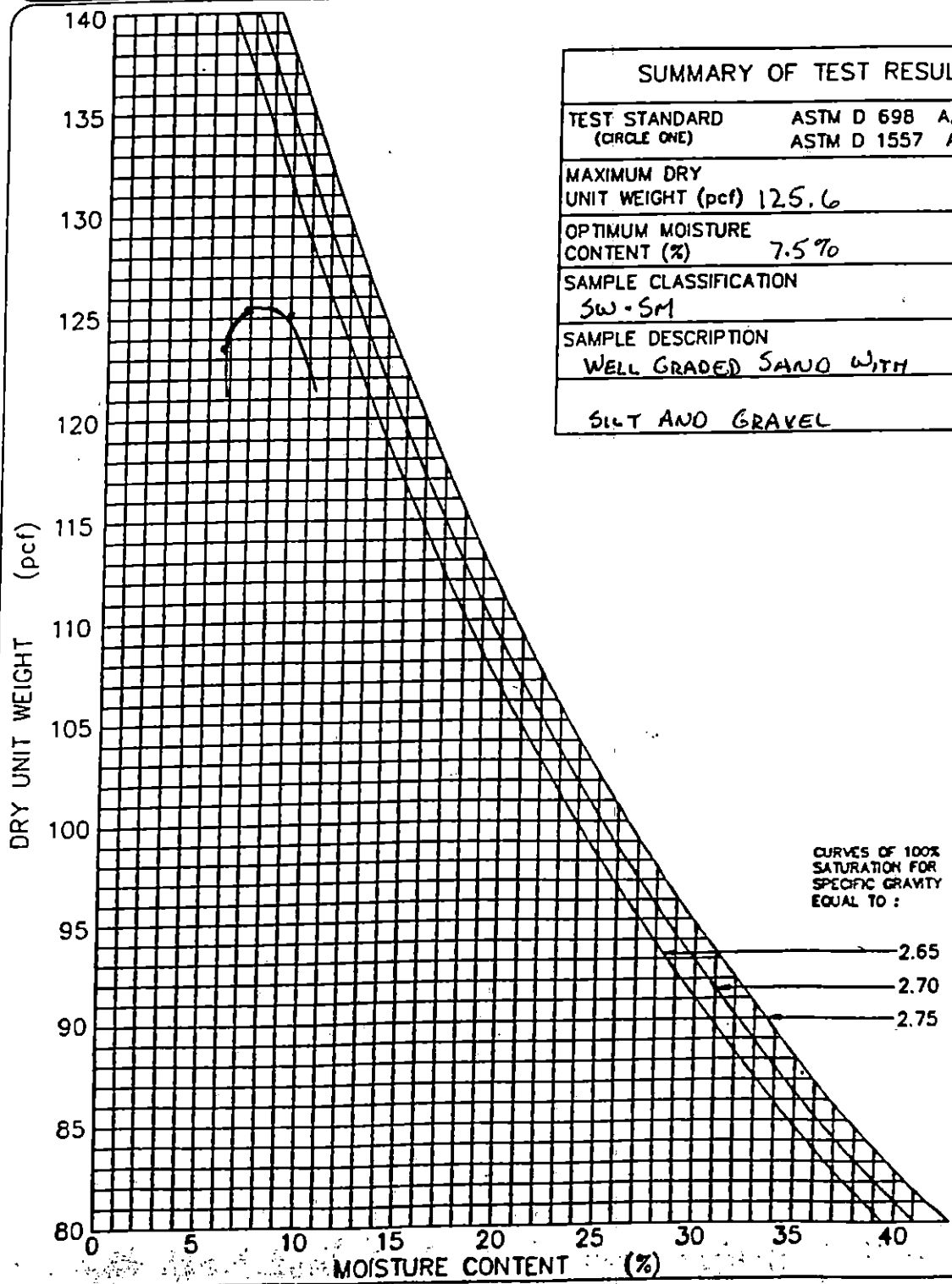
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 18 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-32 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)	125.6
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: 19 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-33 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)	1732.2	1396.8
WT. OF TARE	(grams)	194.7	56.9
WT. OF DRY SAMPLE	(grams)	1537.5	1339.9

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
3/4"	19.0	0.0	0.0	100.0	
1/2"	9.5 12.5	13.5	0.9	99.1	
3/8"	9.5	70.8	4.6	95.4	
4	4.75	233.6	15.2	84.8	
10	2.0	419.2	27.3	72.7	
20	0.850	632.5	41.1	58.9	
40	0.425	964.1	62.7	37.3	
60	0.250	1227.7	79.9	20.1	
100	0.150	1336.3	86.9	13.1	
200	0.075	1375.9	89.5	10.5	

%FINER = 100 - Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

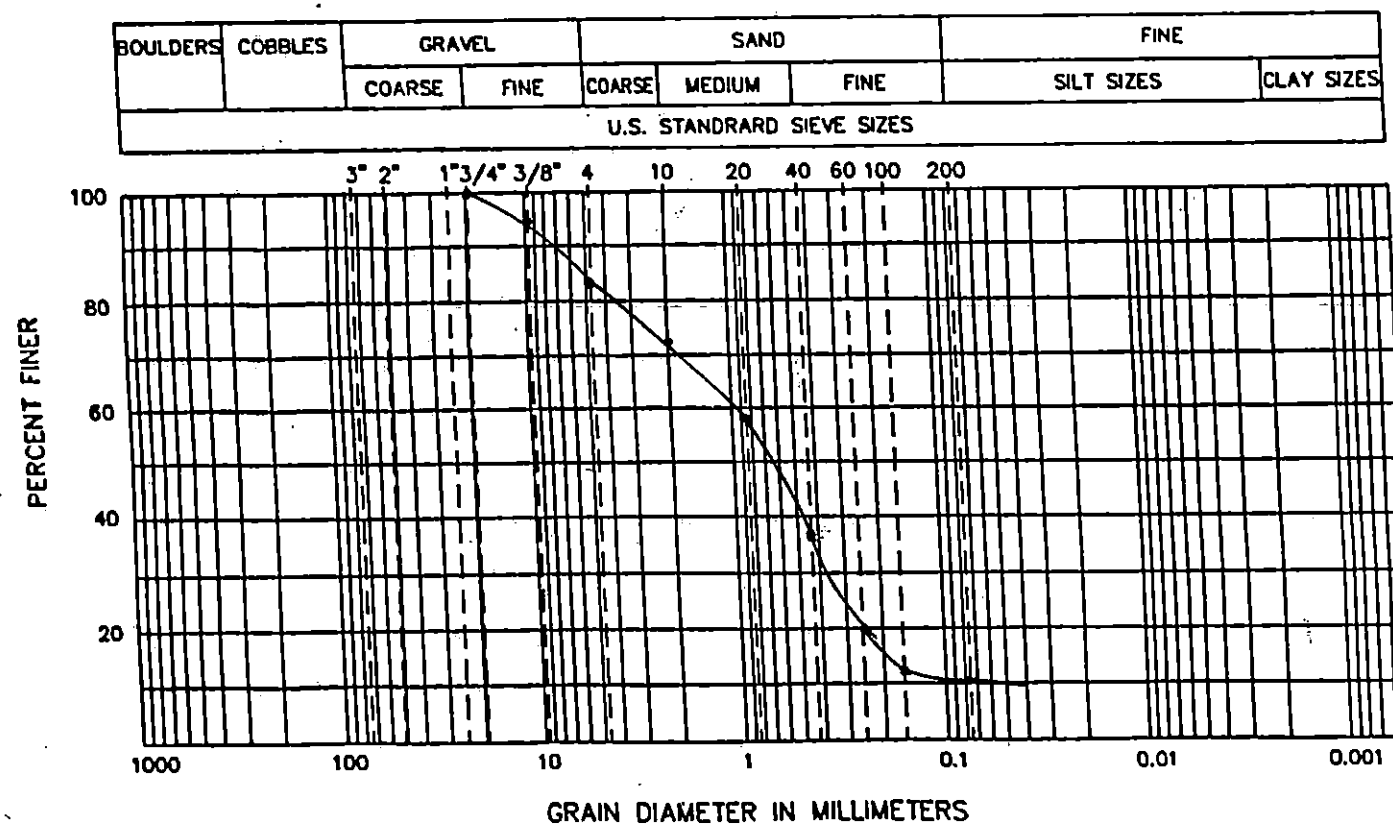
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 19 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-33 QA ID: 2/R



CURVE COEFFICIENTS

(C_u) 15.5

(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.	99.1
3/8-in.	95.4
NO. 4	84.8
NO. 10	72.7
NO. 20	58.9
NO. 40	37.3
NO. 60	20.1
NO. 100	13.1
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: 19 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-33 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)	10322	10500	10560		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4477	4655	4715		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	129.8	135.0	136.7		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.3	125.9	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)	7.9	7.9	8.0		
G	WT. OF WET SOIL & TARE	(grams)	602.2	614.5	727.0		
H	WT. OF DRY SOIL & TARE	(grams)	572.4	573.7	660.1		
I	WT. OF WATER = G - H	(grams)	29.8	40.8	66.9		
J	WT. DRY SOIL = H - F	(grams)	564.5	565.8	652.1		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.3%	7.2%	10.3%		

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TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

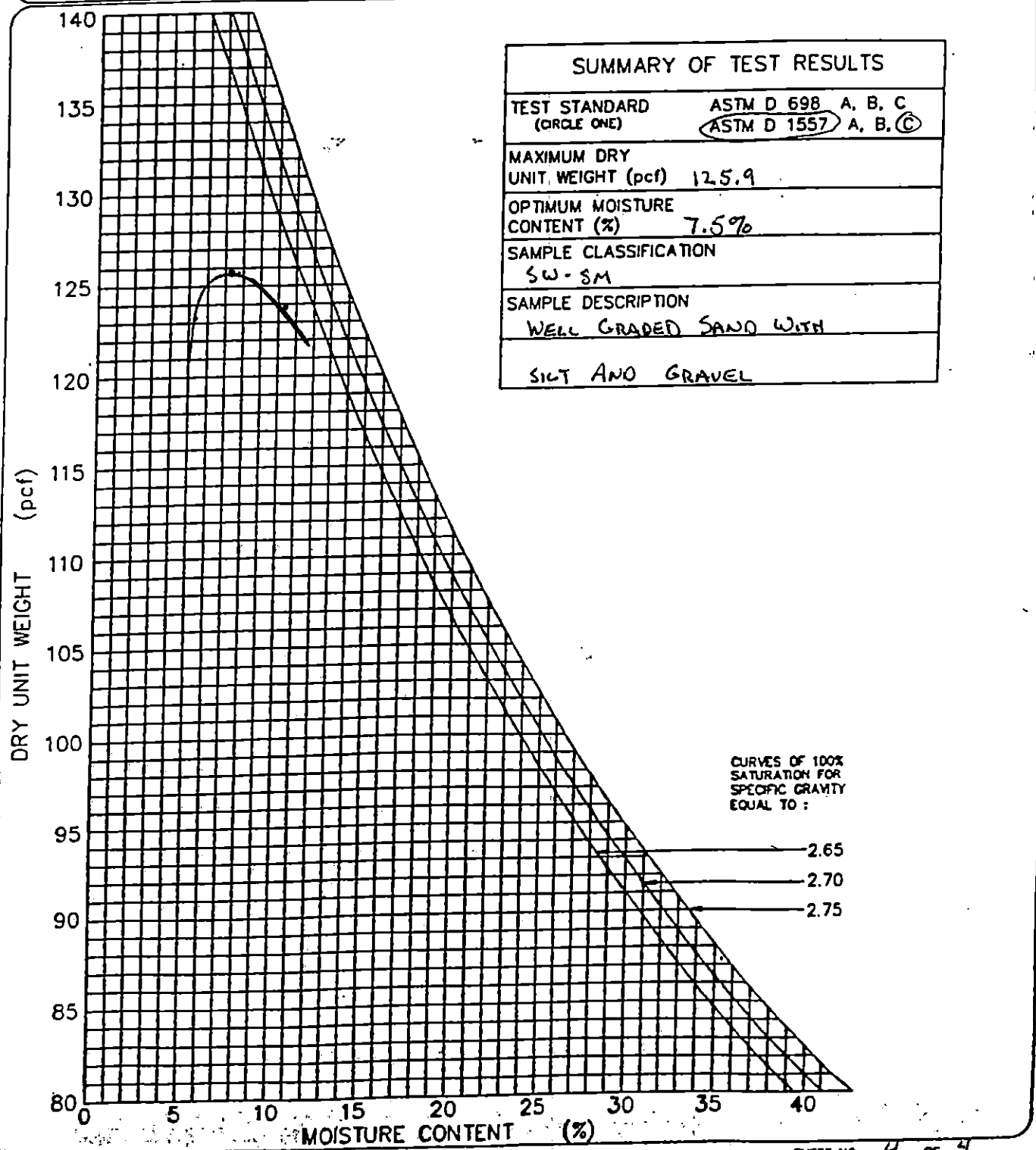
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 19 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-23 QA ID: P/A

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 (%)	7.5%
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 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-34 QA ID: 21R

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)	1766.8	1429.4
WT. OF TARE	(grams)	193.3	20.3
WT. OF DRY SAMPLE	(grams)	1573.5	1409.1

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	44.0	2.8	97.2	
3/8"	9.5	115.2	7.3	92.7	
4	4.75	296.8	18.9	81.1	
10	2.0	470.9	29.9	70.1	
20	0.850	680.3	43.2	56.8	
40	0.425	1012.0	64.3	35.7	
60	0.250	1260.2	80.0	20.0	
100	0.150	1367.5	86.9	13.1	
200	0.075	1408.4	89.5	10.5	

%FINER = 100 − Σ% RETAINED

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

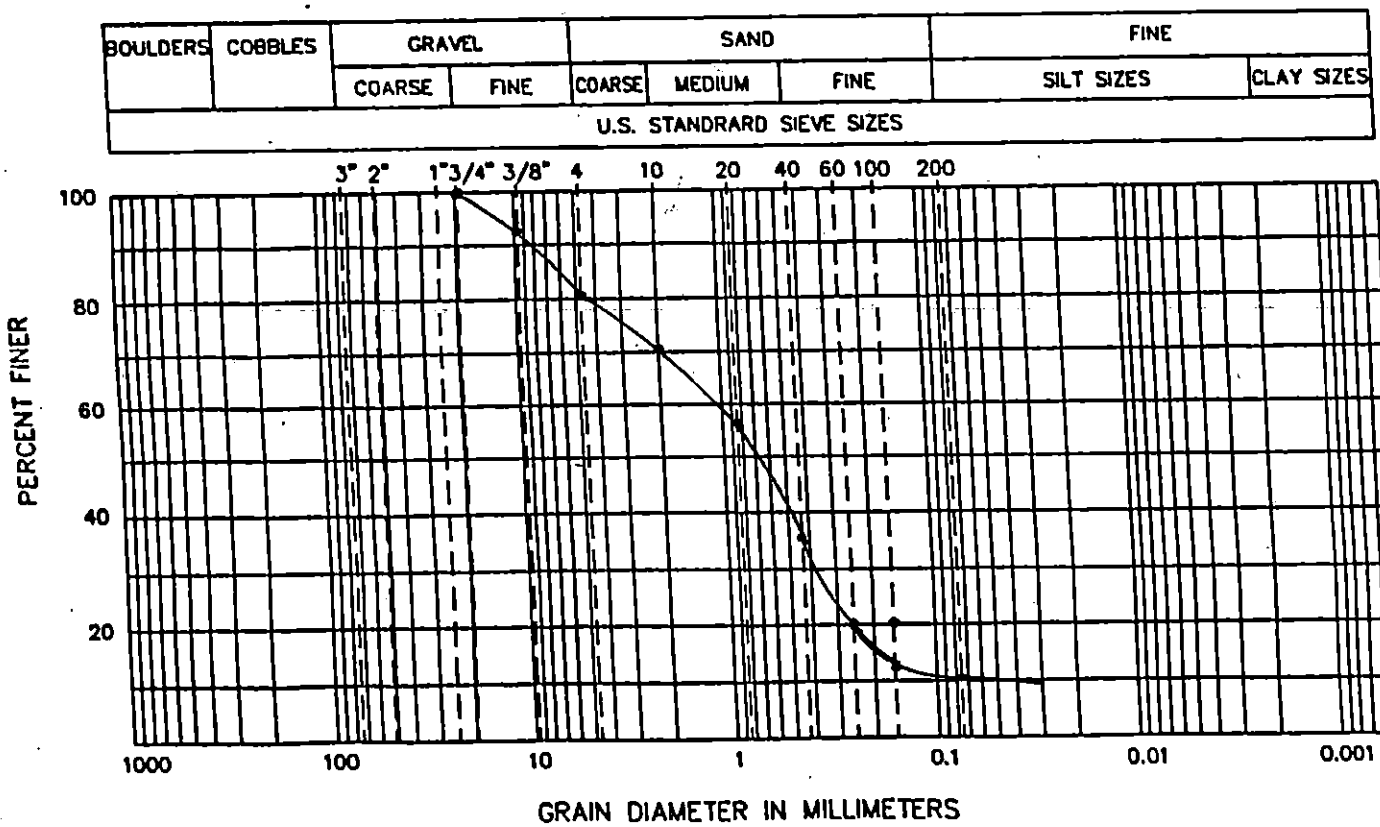
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 22 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-34 QA ID: 21R



CURVE COEFFICIENTS

(C_u) 22.9

(C_c) 2.95

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.	92.7
NO. 4	81.1
NO. 10	70.1
NO. 20	56.8
NO. 40	35.7
NO. 60	20.0
NO. 100	13.1
NO. 200	10.5

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: 22 day 05 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-34 — 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)	10500	10649	10565		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4655	4804	4720		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	135.0	139.3	136.9		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	127.6	129.0	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)	8.1	8.0	8.0		
G	WT. OF WET SOIL & TARE	(grams)	652.3	625.2	572.0		
H	WT. OF DRY SOIL & TARE	(grams)	616.8	579.4	516.9		
I	WT. OF WATER = G - H	(grams)	35.5	45.8	55.1		
J	WT. DRY SOIL = H - F	(grams)	608.7	571.4	508.9		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.8%	8.0%	10.8%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

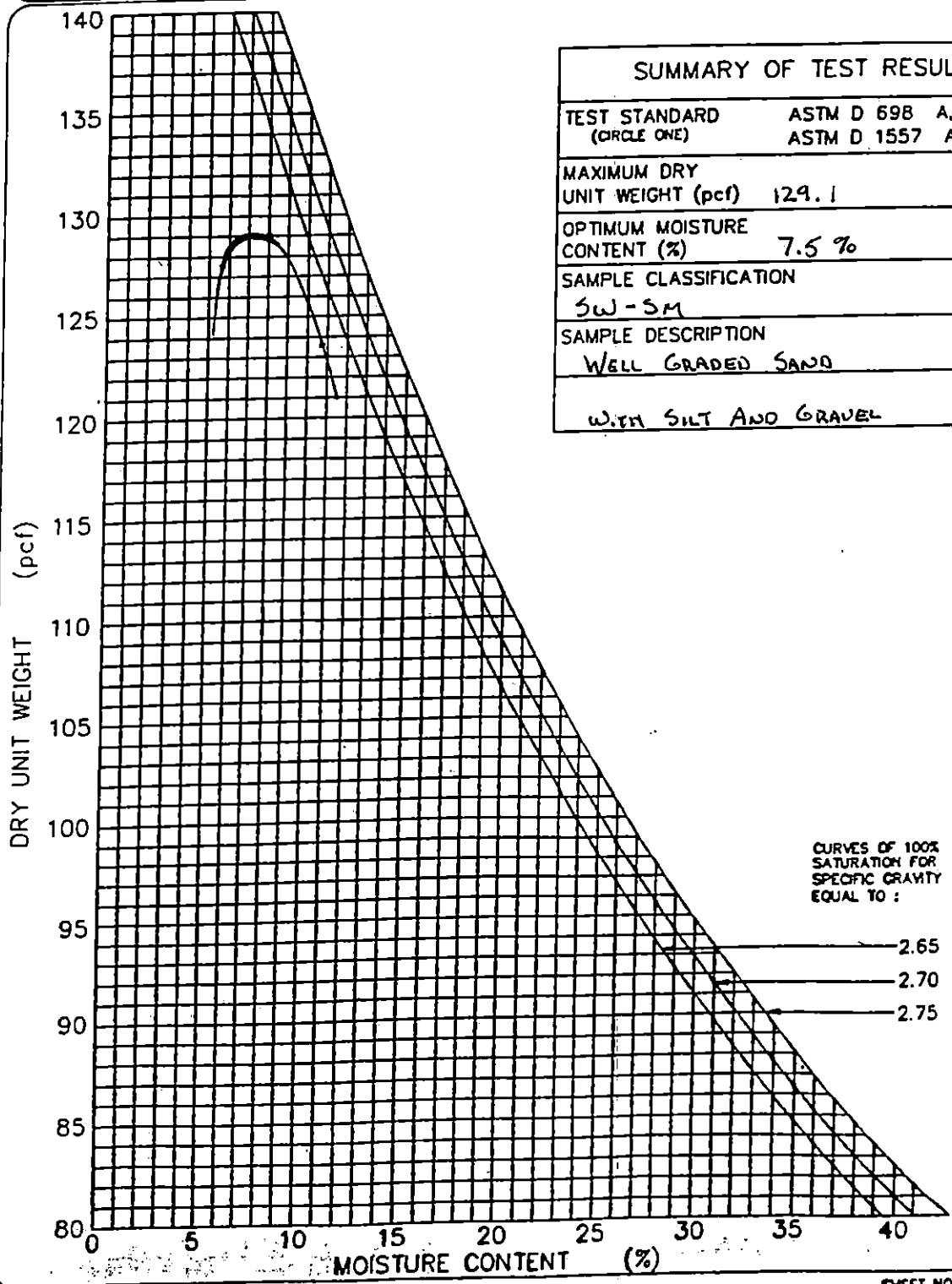
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 22 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-34 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)	129.1
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: 23 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-35 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)	1860.0	1496.3
WT. OF TARE	(grams)	191.9	17.7
WT. OF DRY SAMPLE	(grams)	1668.1	1478.6

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	31.8	1.9	98.1	
3/8"	9.5	82.1	4.9	95.1	
4	4.75	249.5	15.0	85.0	
10	2.0	433.8	26.0	74.0	
20	0.850	663.2	39.8	60.2	
40	0.425	1034.1	62.0	38.0	
60	0.250	1314.0	78.8	21.2	
100	0.150	1430.2	85.7	14.3	
200	0.075	1476.2	88.5	11.5	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

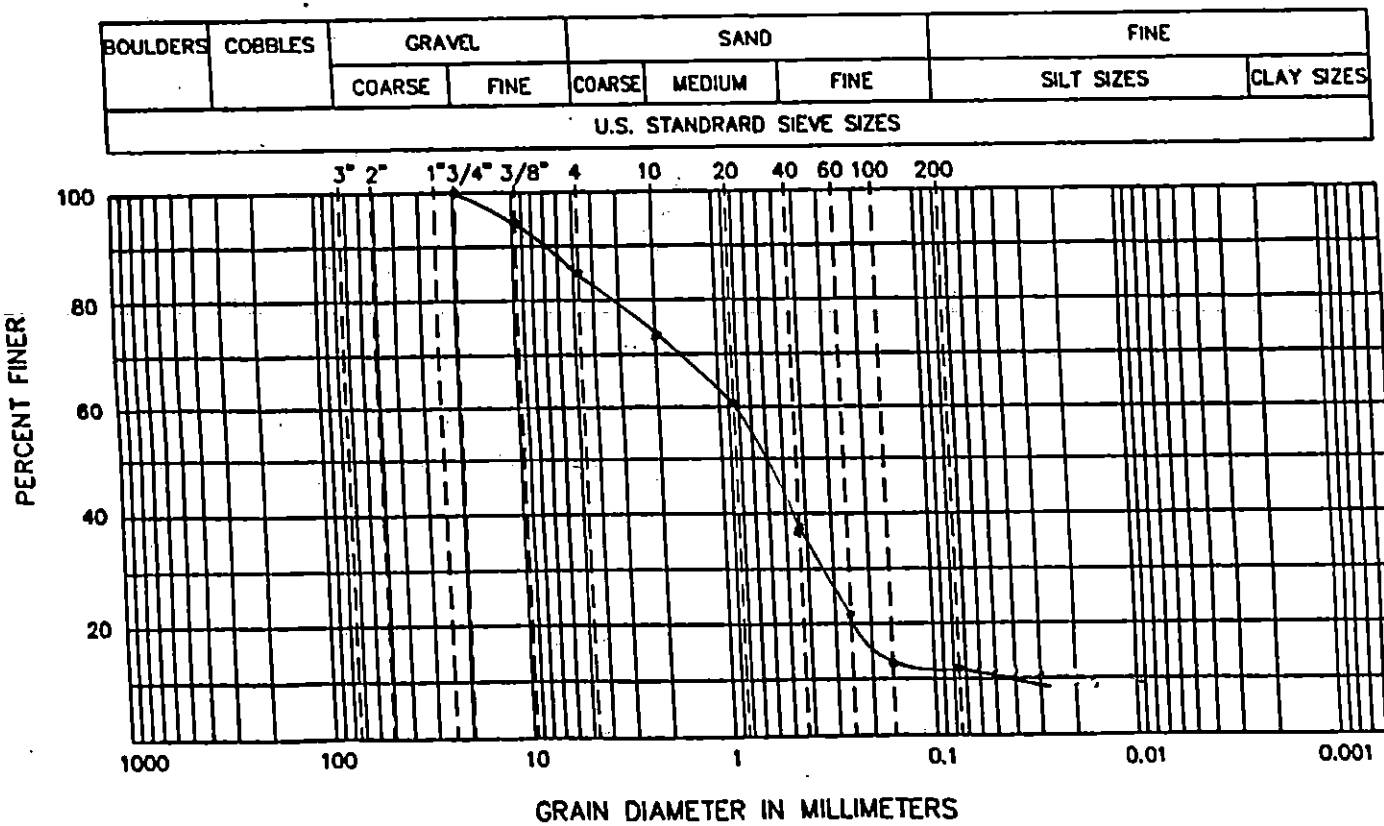
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 23 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-35 QA ID: 2/R



CURVE COEFFICIENTS

(C_u) 21.3

(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.	98.1
3/8-in.	95.1
NO. 4	85.0
NO. 10	74.0
NO. 20	60.2
NO. 40	38.0
NO. 60	21.2
NO. 100	14.3
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: 23 day 05 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALT. SELECT — SAMPLE NO.: S-35 — QA ID: 24R

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	10549	10517		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4435	4704	4672		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	128.6	136.4	135.5		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	122.3	127.1	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)	8.0	8.0	8.0		
G	WT. OF WET SOIL & TARE	(grams)	603.3	665.8	680.2		
H	WT. OF DRY SOIL & TARE	(grams)	574.6	621.3	621.3		
I	WT. OF WATER = G - H	(grams)	28.7	44.5	58.9		
J	WT. DRY SOIL = H - F	(grams)	566.6	613.3	613.3		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.1%	7.3%	9.6%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

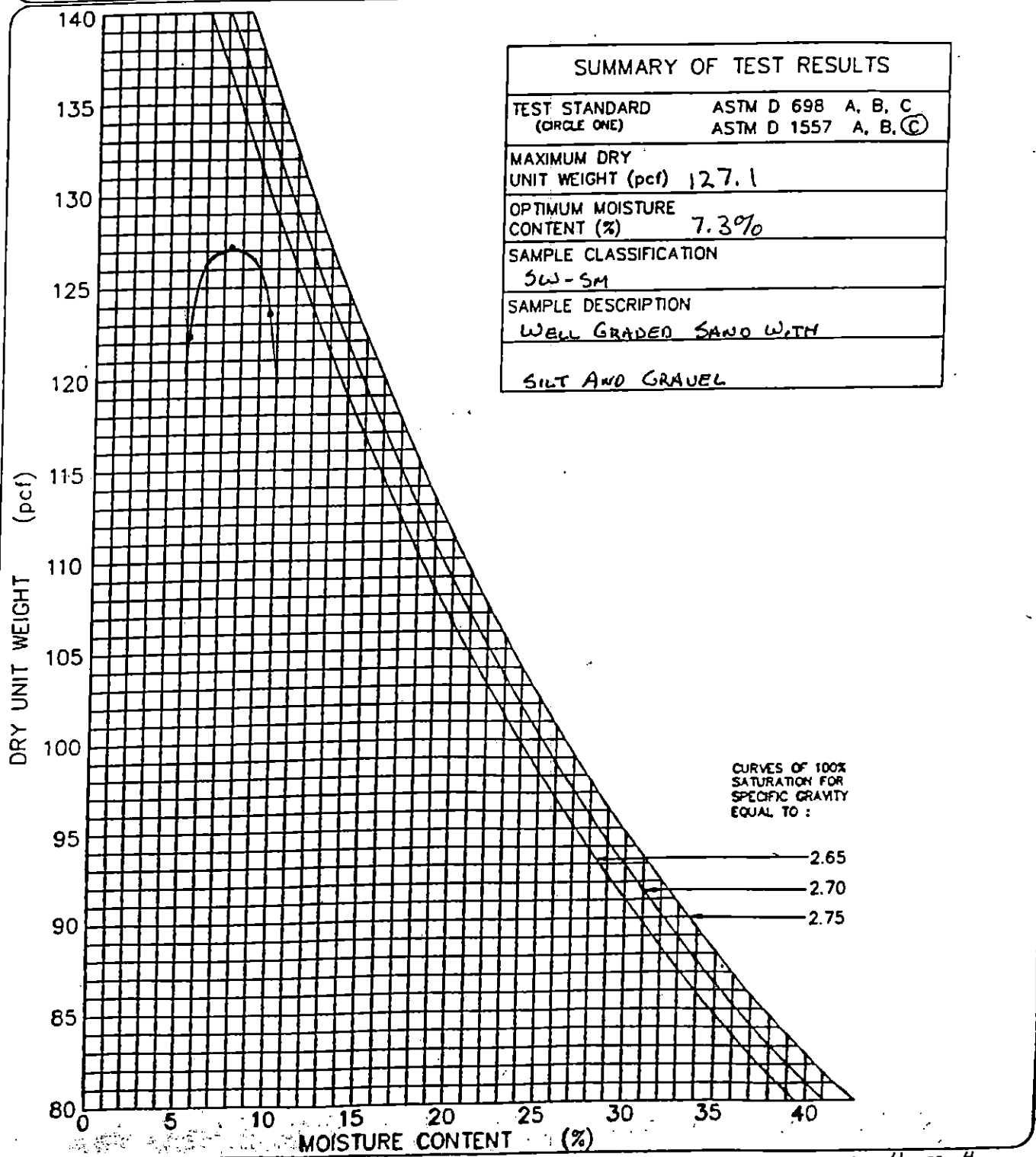
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 23 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-35 QA ID: >/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)	127.1
OPTIMUM MOISTURE CONTENT (%)	7.3%
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 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-36 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)	1898.4	1487.8
WT. OF TARE	(grams)	266.7	20.7
WT. OF DRY SAMPLE	(grams)	1631.7	1467.1

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	57.1	3.5	96.5	
3/8"	9.5	90.5	5.5	94.5	
4	4.75	238.7	14.6	85.4	
10	2.0	397.2	24.3	75.7	
20	0.850	605.9	37.1	62.9	
40	0.425	966.5	59.2	40.8	
60	0.250	1267.8	77.7	22.3	
100	0.150	1405.0	86.1	13.9	
200	0.075	1465.6	89.8	10.2	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

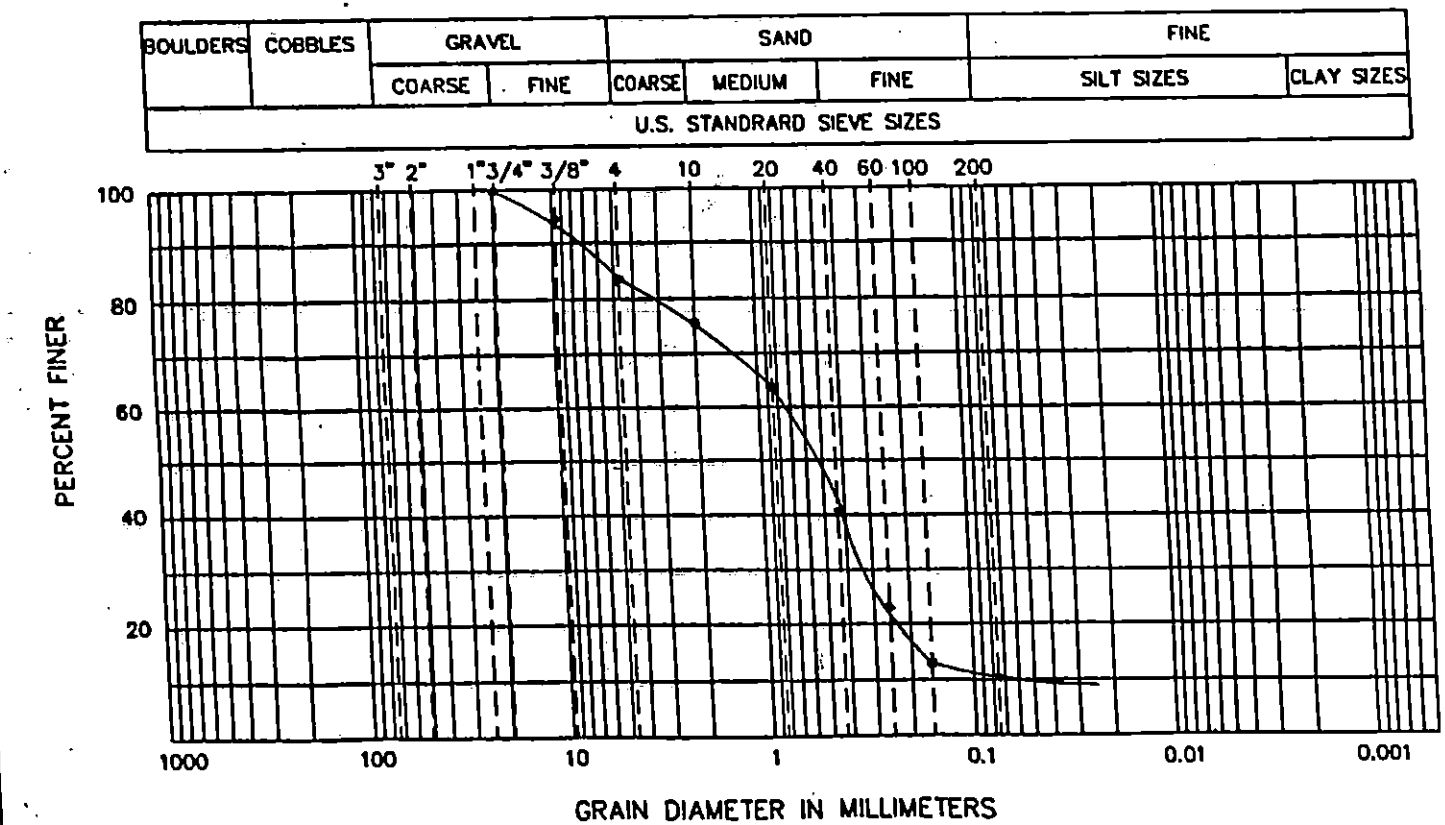
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 24 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-36 QA ID: DJR



CURVE COEFFICIENTS

(C_u) ..12.2.....

(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.	96.5
3/8-in.	94.5
NO. 4	85.4
NO. 10	75.7
NO. 20	62.9
NO. 40	40.8
NO. 60	22.3
NO. 100	13.9
NO. 200	10.2

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: 24 day 05 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-36 — QA ID: 24R

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)	10295	10499	10520		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A − B	(grams)	4450	4654	4675		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	129.1	135.0	135.6		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.0	126.8	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)	7.8	7.9	7.9		
G	WT. OF WET SOIL & TARE	(grams)	579.0	686.8	732.7		
H	WT. OF DRY SOIL & TARE	(grams)	551.7	645.1	676.1		
I	WT. OF WATER = G − H	(grams)	27.3	41.7	56.6		
J	WT. DRY SOIL = H − F	(grams)	543.9	637.2	668.2		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.0	6.5	8.5		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

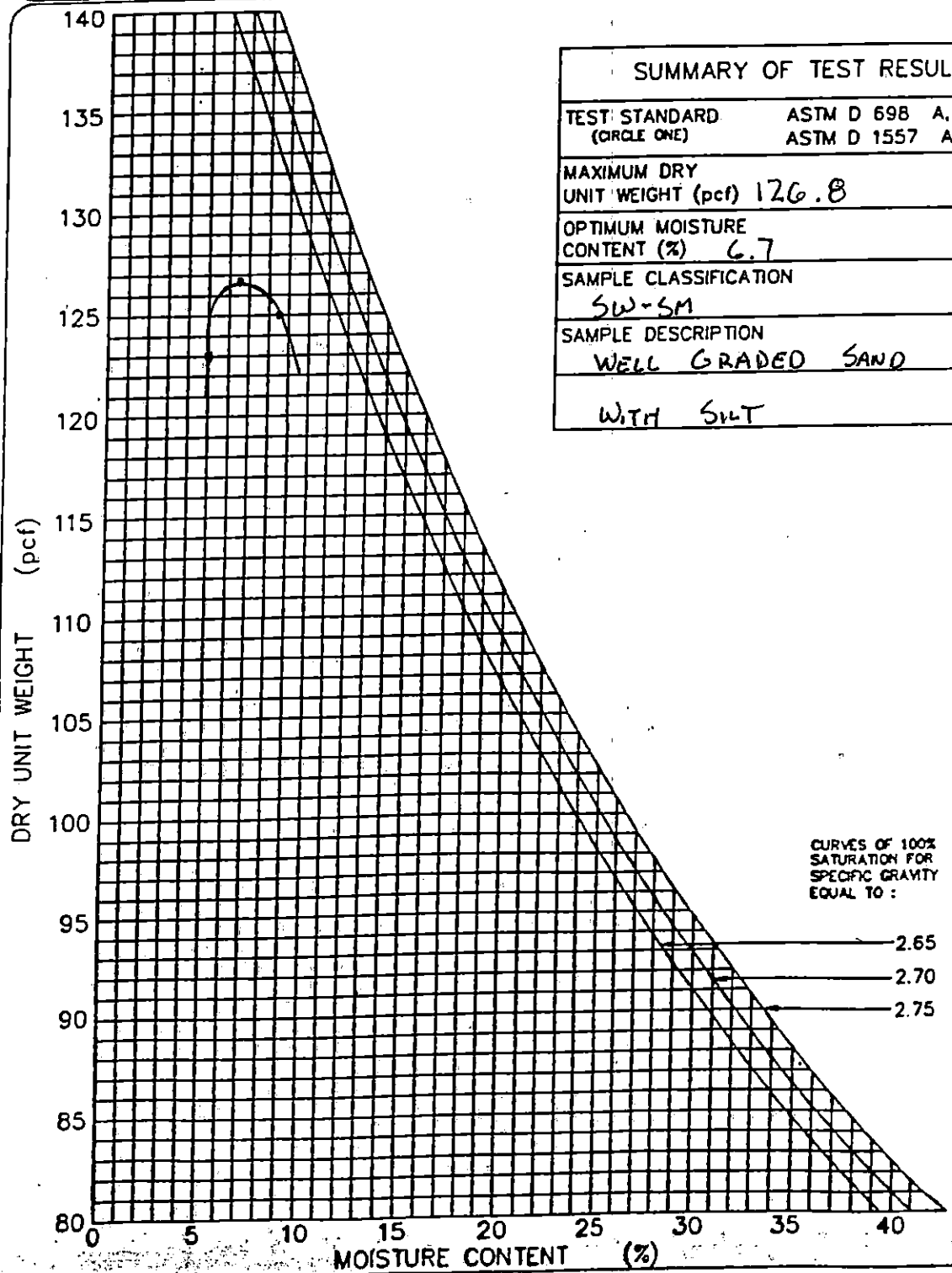
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 24 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-36 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)	126.8
OPTIMUM MOISTURE CONTENT (%)	6.7
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT



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 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-37 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)	1814.0	1598.6
WT. OF TARE	(grams)	59.6	17.9
WT. OF DRY SAMPLE	(grams)	1754.4	1580.7

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	108.8	6.2	93.8	
3/8"	9.5	166.7	9.5	90.5	
4	4.75	336.8	19.2	80.8	
10	2.0	512.3	29.2	70.8	
20	0.850	726.3	41.4	58.6	
40	0.425	1105.3	63.0	37.0	
60	0.250	1405.3	80.1	19.9	
100	0.150	1521.1	86.7	13.3	
200	0.075	1566.7	89.3	10.7	

%FINER = 100 − Σ% RETAINED

©GEO SYNTEC CONSULTANTS FILE NO. 2-14-PLUS

GeoSyntec Consultants

TOWN OF HUNTINGTON

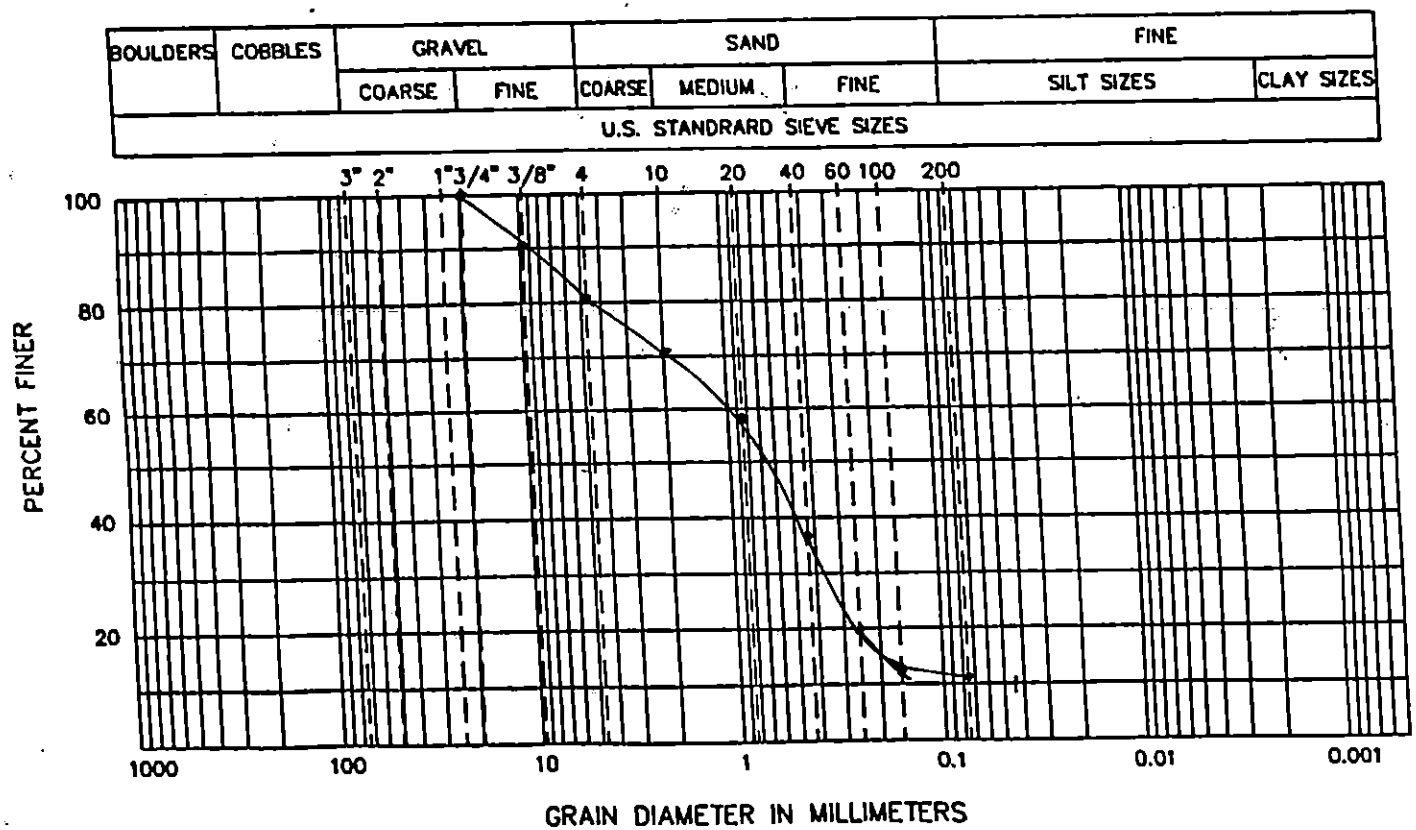
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 25 day 05 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-37 — QA ID: 71R



CURVE COEFFICIENTS

(C_u) 23.8

(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.	93.8
3/8-in.	90.5
NO. 4	80.8
NO. 10	70.8
NO. 20	58.6
NO. 40	37.0
NO. 60	19.9
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: 25 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-37 QA ID: ____

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	10619	10621		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4584	4774	4776		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	132.9	138.4	138.5		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	125.9	128.5	126.4		

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)	8.1	8.1	8.1		
G	WT. OF WET SOIL & TARE	(grams)	640.1	579.1	715.0		
H	WT. OF DRY SOIL & TARE	(grams)	606.5	538.3	680.3		
I	WT. OF WATER = G - H	(grams)	33.6	40.8	64.7		
J	WT. DRY SOIL = H - F	(grams)	598.4	530.2	672.2		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.6%	7.7%	9.6%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

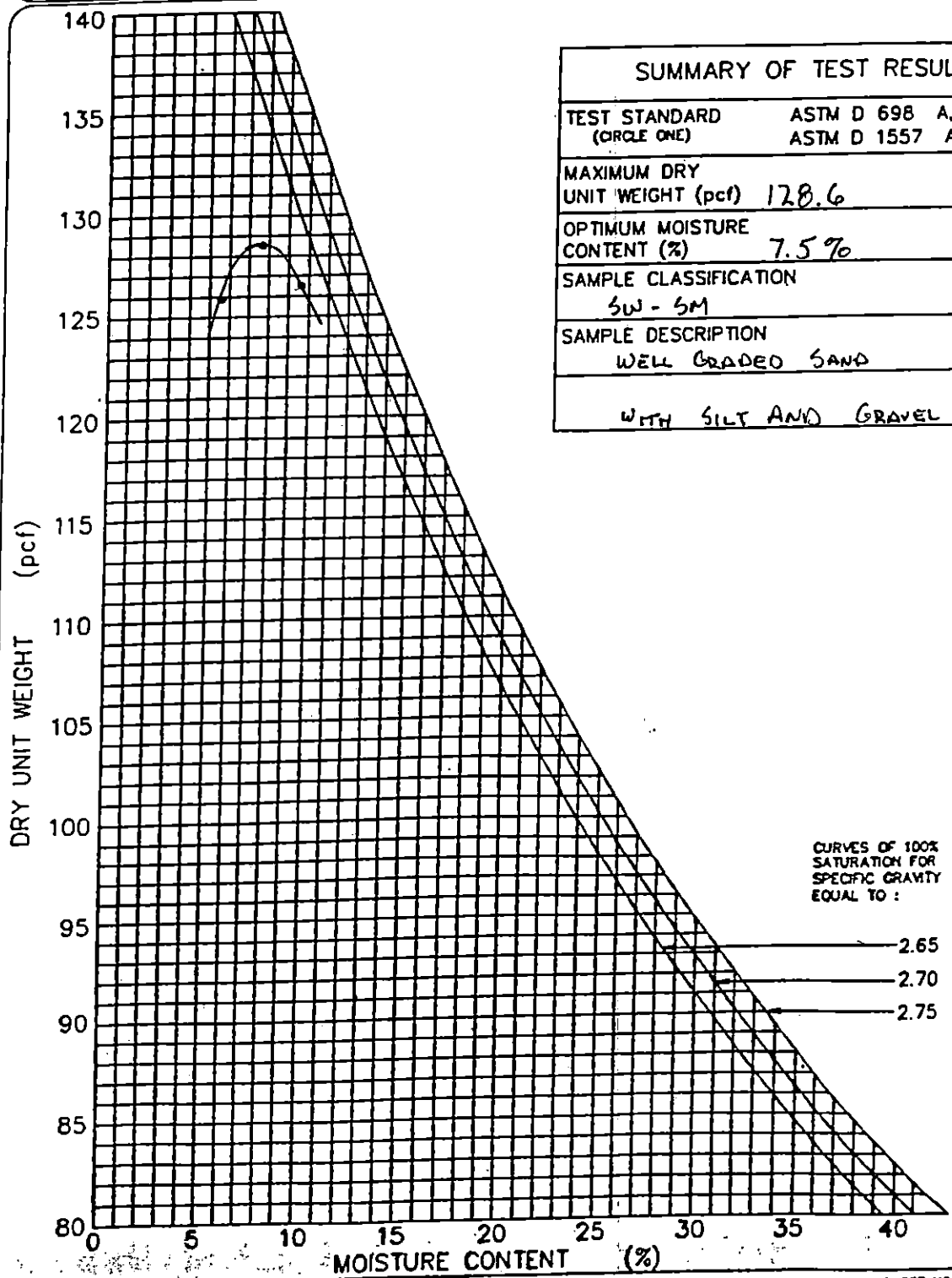
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 25 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-37 QA ID: 7/R



SUMMARY OF TEST RESULTS	
TEST STANDARD (ORCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	128.6
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: 26 day 05 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-38 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)	1817.2	1628.7
WT. OF TARE	(grams)	57.6	20.4
WT. OF DRY SAMPLE	(grams)	1759.6	1608.3

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	107.3	6.1	93.9	
3/8"	9.5	165.4	9.4	90.6	
4	4.75	302.7	17.2	82.8	
10	2.0	455.7	25.9	74.1	
20	0.850	654.6	37.2	62.8	
40	0.425	1048.7	59.6	40.4	
60	0.250	1413.0	80.3	19.7	
100	0.150	1559.0	88.6	11.4	
200	0.075	1599.5	90.9	9.1	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

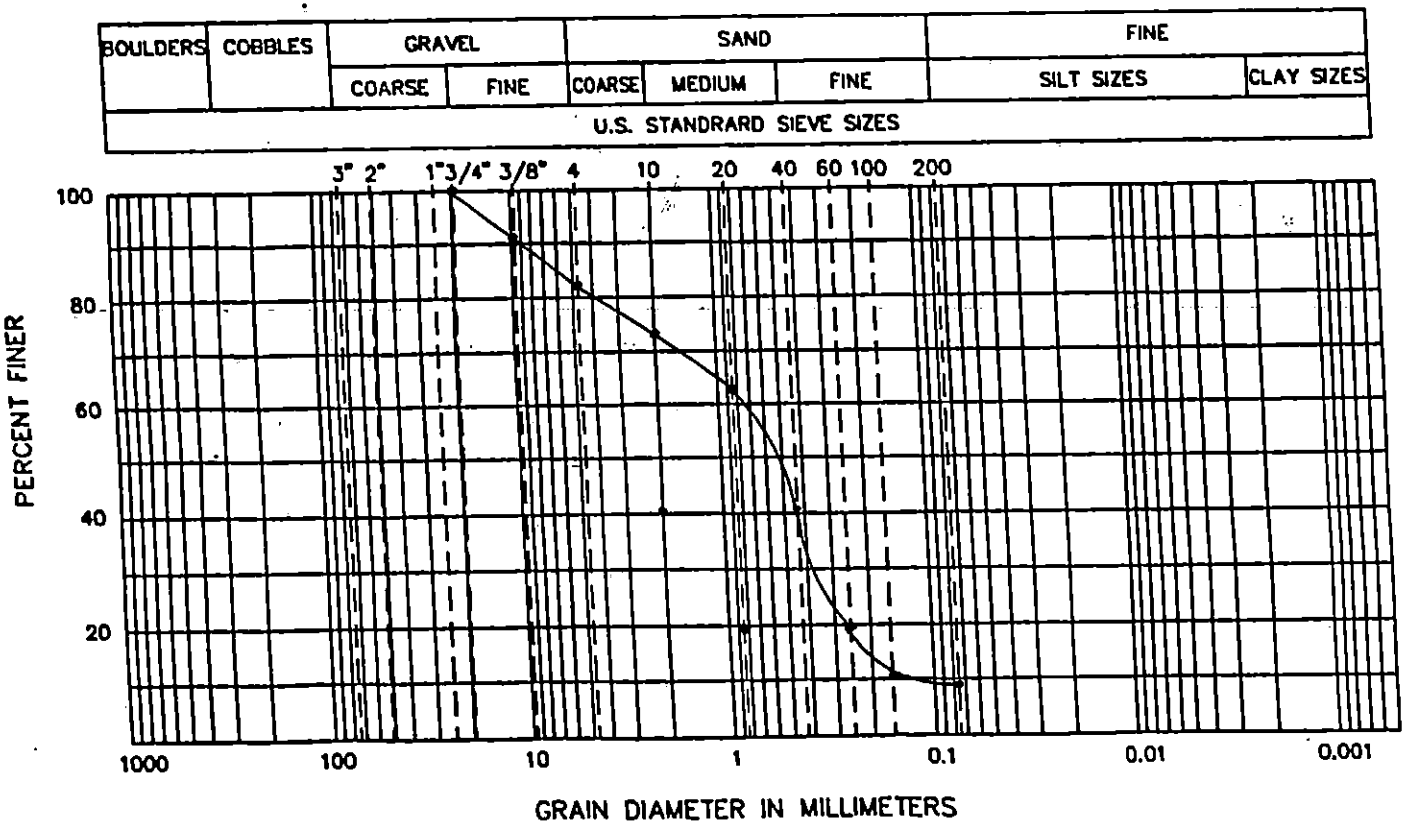
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 26 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-38 QA ID: DAR



CURVE COEFFICIENTS

(C_u) 7.1

(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.	93.9
3/8-in.	90.6
NO. 4	82.8
NO. 10	74.1
NO. 20	62.8
NO. 40	40.4
NO. 60	19.7
NO. 100	11.4
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: 26 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-38 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)	10260	10441	10540		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4415	4596	4695		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	128.0	133.3	136.2		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	121.6	124.1	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)	8.1	8.1	8.1		
G	WT. OF WET SOIL & TARE	(grams)	581.1	624.2	653.8		
H	WT. OF DRY SOIL & TARE	(grams)	552.5	582.0	595.7		
I	WT. OF WATER = G - H	(grams)	28.6	42.2	58.1		
J	WT. DRY SOIL = H - F	(grams)	544.4	573.9	587.6		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.3%	7.4%	9.9%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

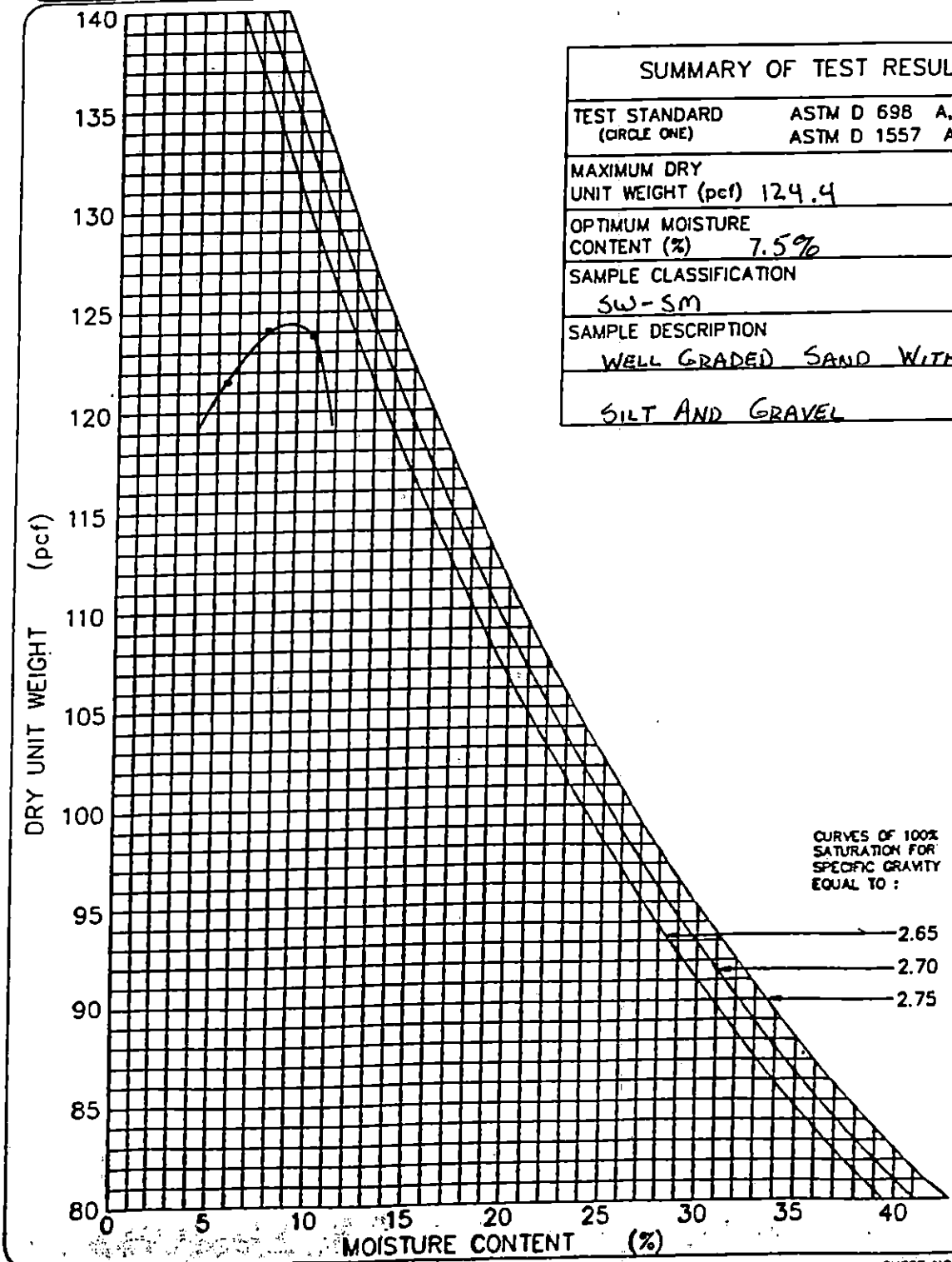
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 26 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-38 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)	124.4
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: 30 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-39 QA ID: 24R

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)	1859.3	1499.1
WT. OF TARE	(grams)	193.3	17.7
WT. OF DRY SAMPLE	(grams)	1666.0	1481.4

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	39.5	2.4	97.6	
3/8"	9.5	93.3	5.6	94.4	
4	4.75	257.5	15.5	84.5	
10	2.0	424.1	25.5	74.5	
20	0.850	641.2	38.5	61.5	
40	0.425	1019.6	61.2	38.8	
60	0.250	1317.9	79.1	20.9	
100	0.150	1434.3	86.1	13.9	
200	0.075	1480.1	88.8	11.2	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

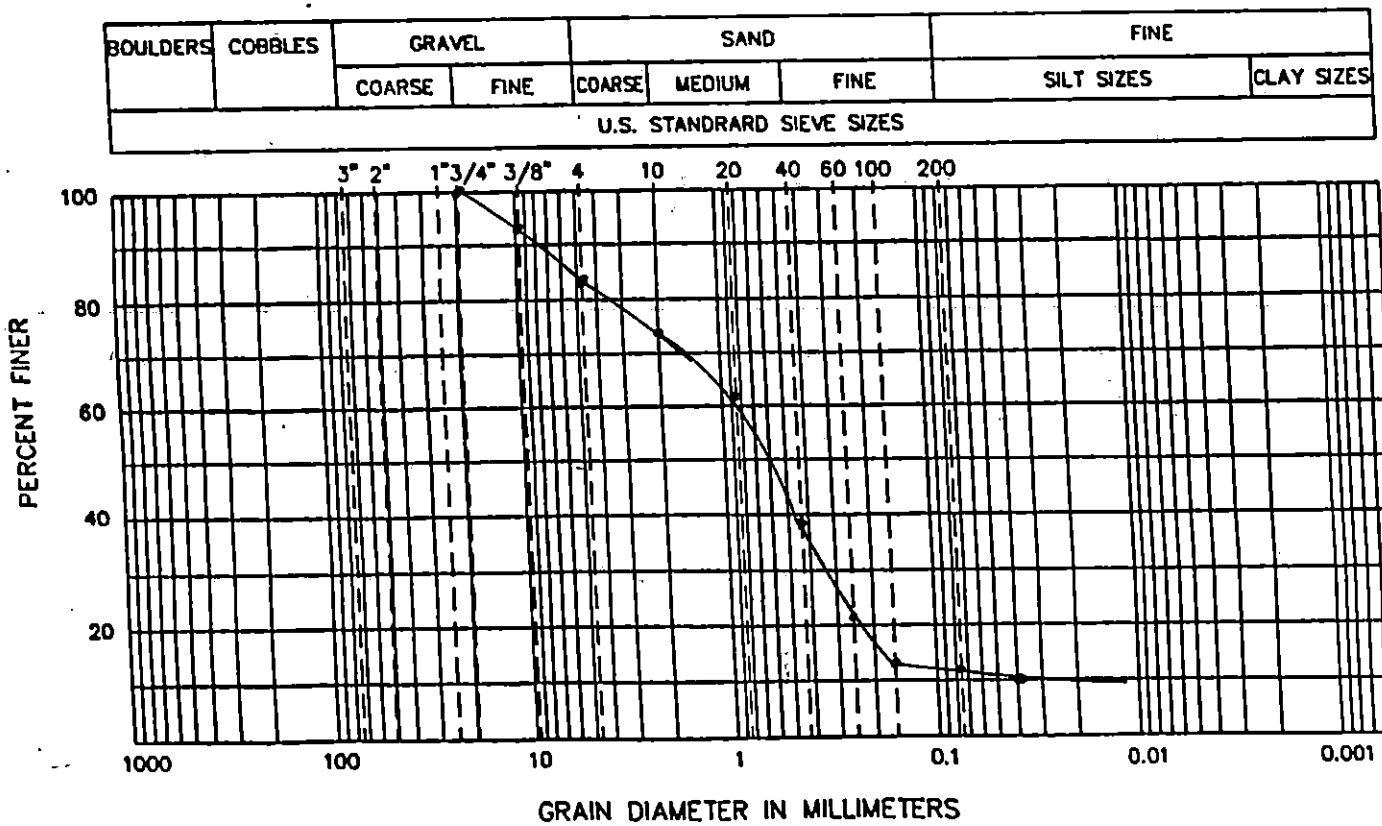
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 30 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-39 QA ID: 2/R



CURVE COEFFICIENTS

(C_u) 21.0

(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.	97.6
3/8-in.	94.4
NO. 4	84.5
NO. 10	74.5
NO. 20	61.5
NO. 40	38.8
NO. 60	20.9
NO. 100	13.9
NO. 200	11.2

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: 30 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-39 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	10514	10585		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4545	4669	4740		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	131.8	135.4	137.5		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	125.6	126.3	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	8.0	8.0		
G	WT. OF WET SOIL & TARE	(grams)	636.7	612.0	659.9		
H	WT. OF DRY SOIL & TARE	(grams)	607.6	571.6	606.1		
I	WT. OF WATER = G - H	(grams)	29.1	40.4	53.8		
J	WT. DRY SOIL = H - F	(grams)	599.7	563.6	598.1		
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.9%	7.2%	9.0%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

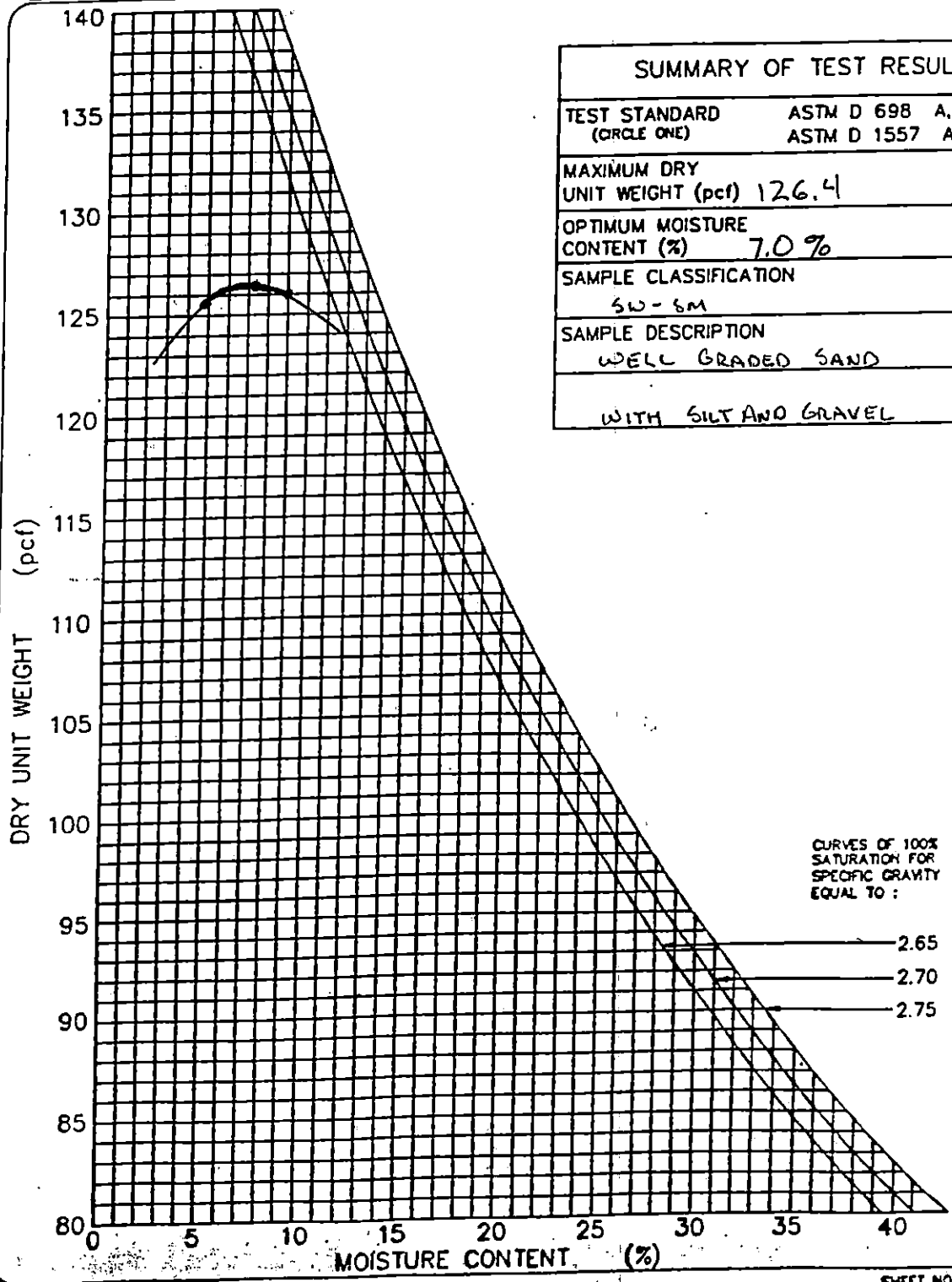
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 30 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-39 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)	126.4
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: 30 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-40 QA ID: >4 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)	1726.4	1385.2
WT. OF TARE	(grams)	193.5	21.1
WT. OF DRY SAMPLE	(grams)	1532.9	1364.1

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	60.6	4.0	96.0	
3/8"	9.5	100.9	6.6	93.4	
4	4.75	242.0	15.8	84.2	
10	2.0	387.7	25.3	74.7	
20	0.850	576.0	37.6	62.4	
40	0.425	915.3	59.7	40.3	
60	0.250	1200.0	78.3	21.7	
100	0.150	1315.6	85.8	14.2	
200	0.075	1361.8	88.8	11.2	

%FINER = 100 − Σ% RETAINED

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GeoSyntec Consultants

TOWN OF HUNTINGTON

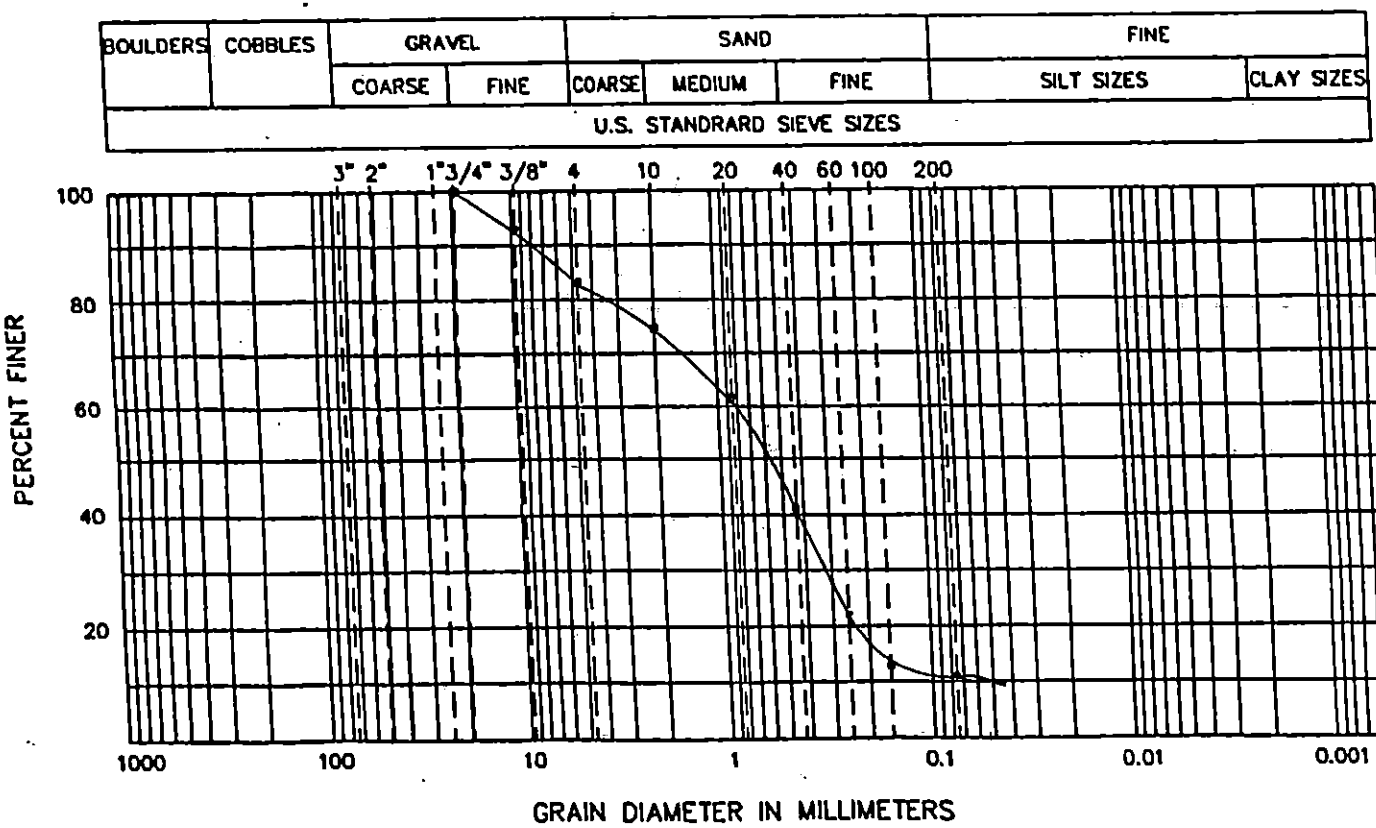
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 30 day 05 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALT. SELECT — SAMPLE NO.: S-40 QA ID: D/R



CURVE COEFFICIENTS

(C_u) 15.9

(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.	96.0
3/8-in.	93.4
NO. 4	84.2
NO. 10	74.7
NO. 20	62.4
NO. 40	40.3
NO. 60	21.7
NO. 100	14.2
NO. 200	11.2

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: 30 day 05 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ACT. SELECT — SAMPLE NO.: S-40 — 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)	10425	10620	10639		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4580	4775	4794		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	132.8	138.5	139.0		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	126.1	129.6	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	8.0	8.1		
G	WT. OF WET SOIL & TARE	(grams)	646.5	689.3	798.8		
H	WT. OF DRY SOIL & TARE	(grams)	614.2	645.2	729.4		
I	WT. OF WATER = G - H	(grams)	32.3	44.1	69.4		
J	WT. DRY SOIL = H - F	(grams)	606.2	637.2	721.3		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.3%	6.9%	9.6%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

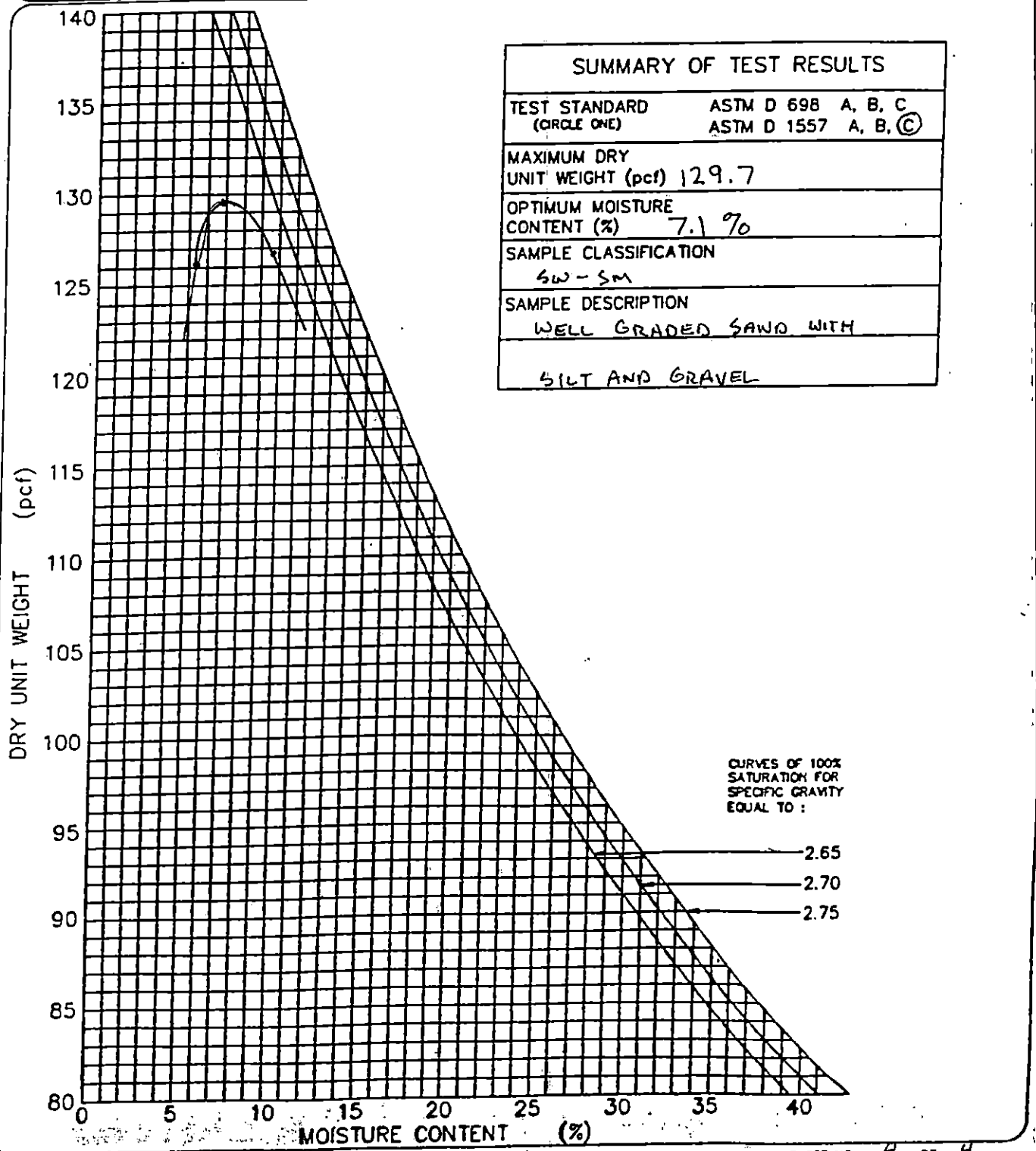
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 30 day 05 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-40 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)	129.7
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: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 01 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-41 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)	1789.5	1631.3
WT. OF TARE	(grams)	19.2	15.8
WT. OF DRY SAMPLE	(grams)	1770.3	1615.5

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	99.1	5.6	94.4	
3/8"	9.5	141.5	8.0	92.0	
4	4.75	302.4	17.1	82.9	
10	2.0	464.7	26.2	73.8	
20	0.850	683.4	38.6	61.4	
40	0.425	1101.4	62.2	37.8	
60	0.250	1430.7	80.8	19.2	
100	0.150	1558.1	88.0	12.0	
200	0.075	1612.7	91.1	8.9	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

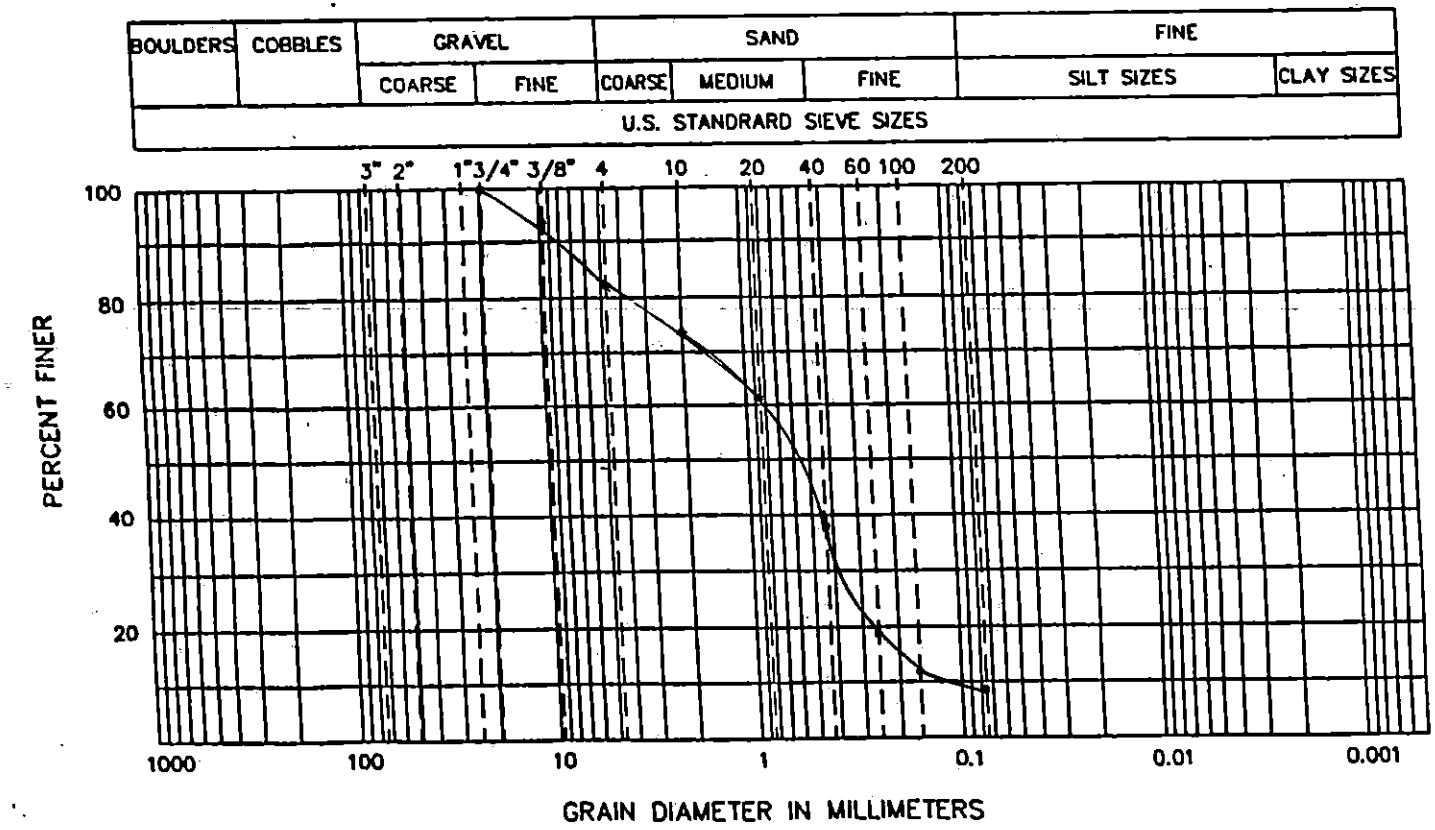
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 01 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-41 QA ID: D/R



CURVE COEFFICIENTS

(C_u) 7.4

(C_c) 1.7

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.	94.4
3/8-in.	92.0
NO. 4	82.9
NO. 10	73.8
NO. 20	61.4
NO. 40	37.8
NO. 60	19.2
NO. 100	12.0
NO. 200	8.9

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: 01 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-41 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)	10305	10450	10499		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4460	4605	4654		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	129.3	133.5	135.0		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	121.6	123.6	122.9		

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		
G	WT. OF WET SOIL & TARE	(grams)	564.1	660.5	696.0		
H	WT. OF DRY SOIL & TARE	(grams)	531.2	611.9	634.7		
I	WT. OF WATER = G - H	(grams)	32.9	48.6	61.3		
J	WT. DRY SOIL = H - F	(grams)	523.2	603.9	626.6		
K	MOISTURE CONTENT = (I/J) X 100	(%)	6.3%	8.0%	9.8%		

GeoSyntec Consultants

TOWN OF HUNTINGTON

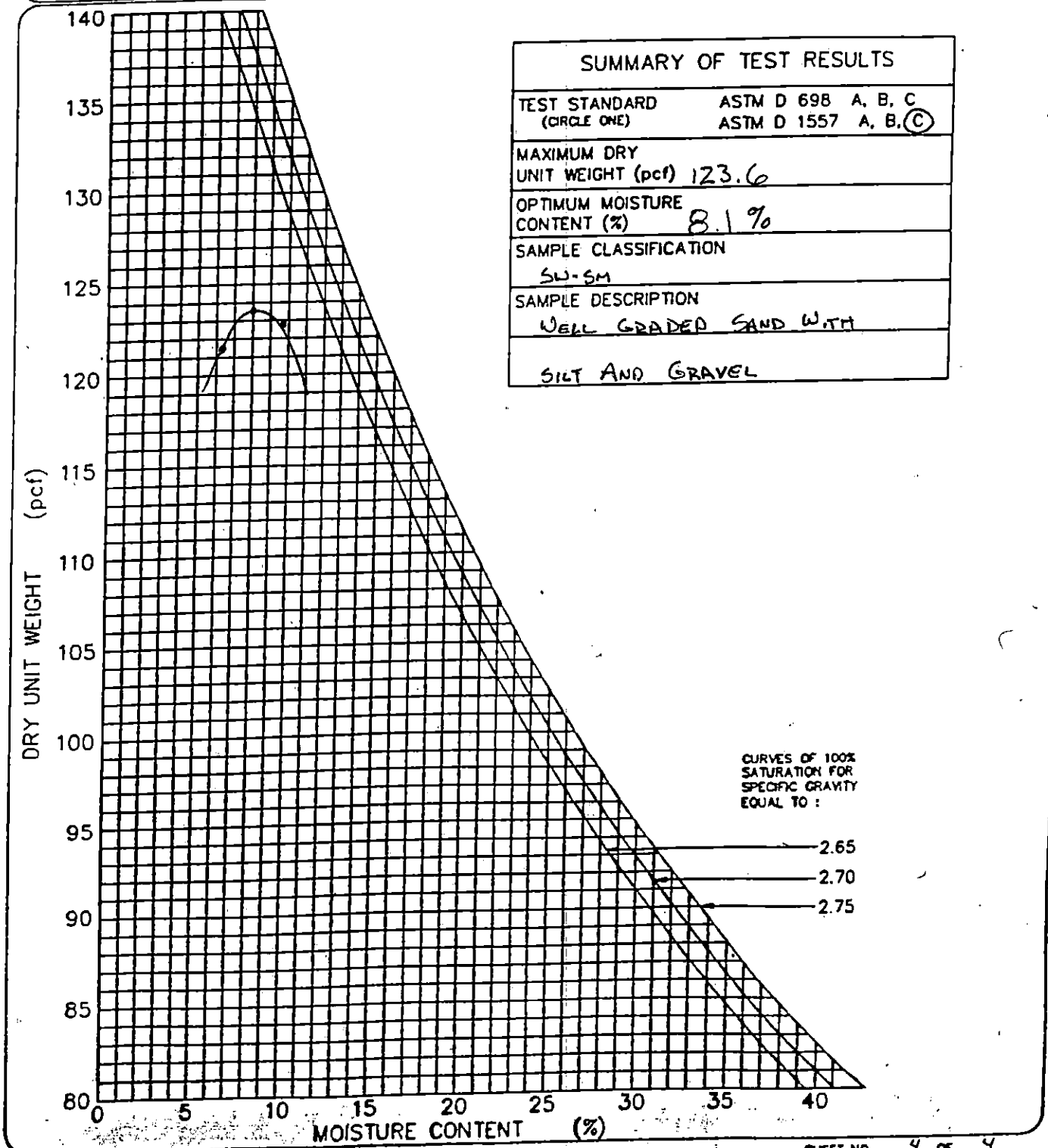
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 01 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-41 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)	123.6
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: 05 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-42 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)	1798.4	1594.2
WT. OF TARE	(grams)	19.5	15.8
WT. OF DRY SAMPLE	(grams)	1778.9	1578.4

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	57.4	3.2	96.8	
3/8"	9.5	128.8	7.2	92.8	
4	4.75	329.1	18.5	81.5	
10	2.0	520.3	29.2	70.8	
20	0.850	740.6	41.6	58.4	
40	0.425	1124.9	63.2	36.8	
60	0.250	1409.9	79.3	20.7	
100	0.150	1522.7	85.6	14.4	
200	0.075	1574.1	88.5	11.5	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

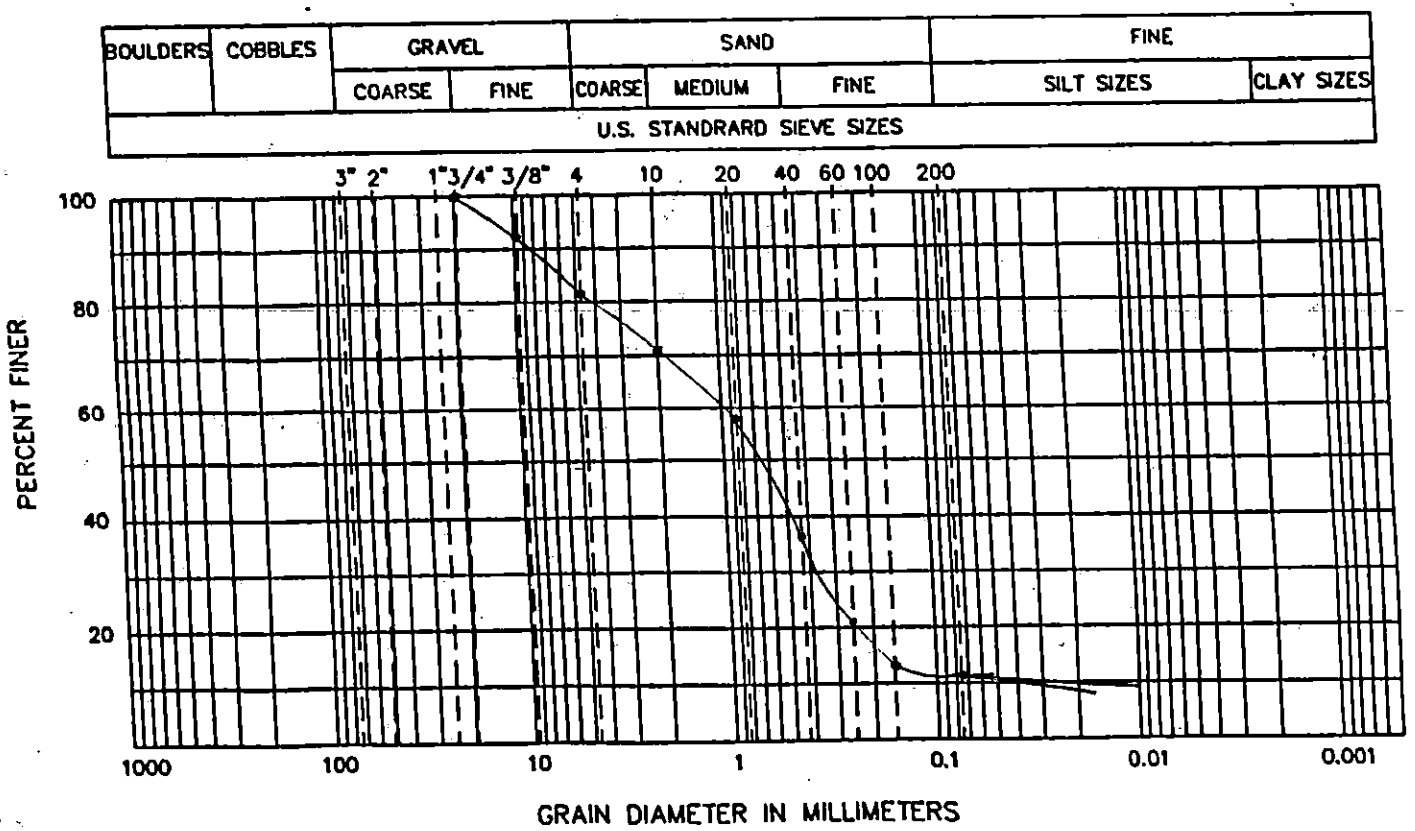
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 05 day 06 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-42 — QA ID: 21



CURVE COEFFICIENTS

(C_u) . . 20

(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.	96.8
3/8-in.	92.8
NO. 4	81.5
NO. 10	70.8
NO. 20	58.4
NO. 40	36.8
NO. 60	20.7
NO. 100	14.4
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: 05 day 06 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-42 — 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)	10415	10639	10614		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4570	4794	4769		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	132.5	139.0	138.3		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	125.0	129.2	126.4		

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	8.0	8.0		
G	WT. OF WET SOIL & TARE	(grams)	629.4	599.3	715.8		
H	WT. OF DRY SOIL & TARE	(grams)	594.0	557.4	654.8		
I	WT. OF WATER = G - H	(grams)	35.4	41.9	61.0		
J	WT. DRY SOIL = H - F	(grams)	586.0	549.4	646.8		
K	MOISTURE CONTENT = (I/J) X 100	(%)	6.0%	7.6%	9.4%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

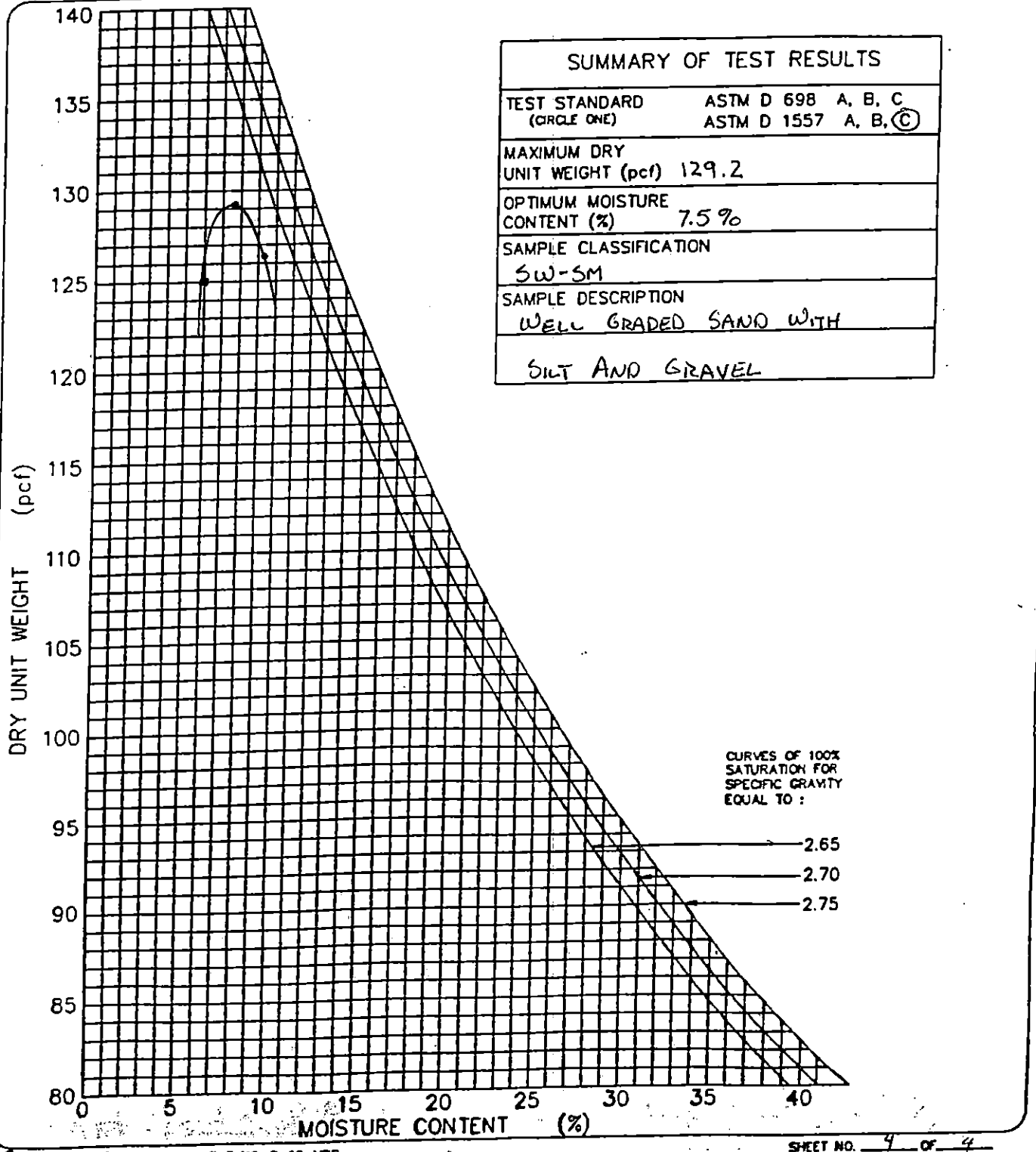
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 05 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-42 QA ID: DAP



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 (%)	7.5 %
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 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-43 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)	1784.7	1590.9
WT. OF TARE	(grams)	21.2	15.8
WT. OF DRY SAMPLE	(grams)	1763.5	1575.1

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	80.6	4.6	95.4	
3/8"	9.5	149.2	8.5	91.5	
4	4.75	320.3	18.2	81.8	
10	2.0	485.4	27.5	72.5	
20	0.850	707.0	40.1	59.9	
40	0.425	1093.9	62.0	38.0	
60	0.250	1393.4	79.0	21.0	
100	0.150	1517.4	86.0	14.0	
200	0.075	1571.9	89.1	10.9	

%FINER = 100 − Σ% RETAINED

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GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

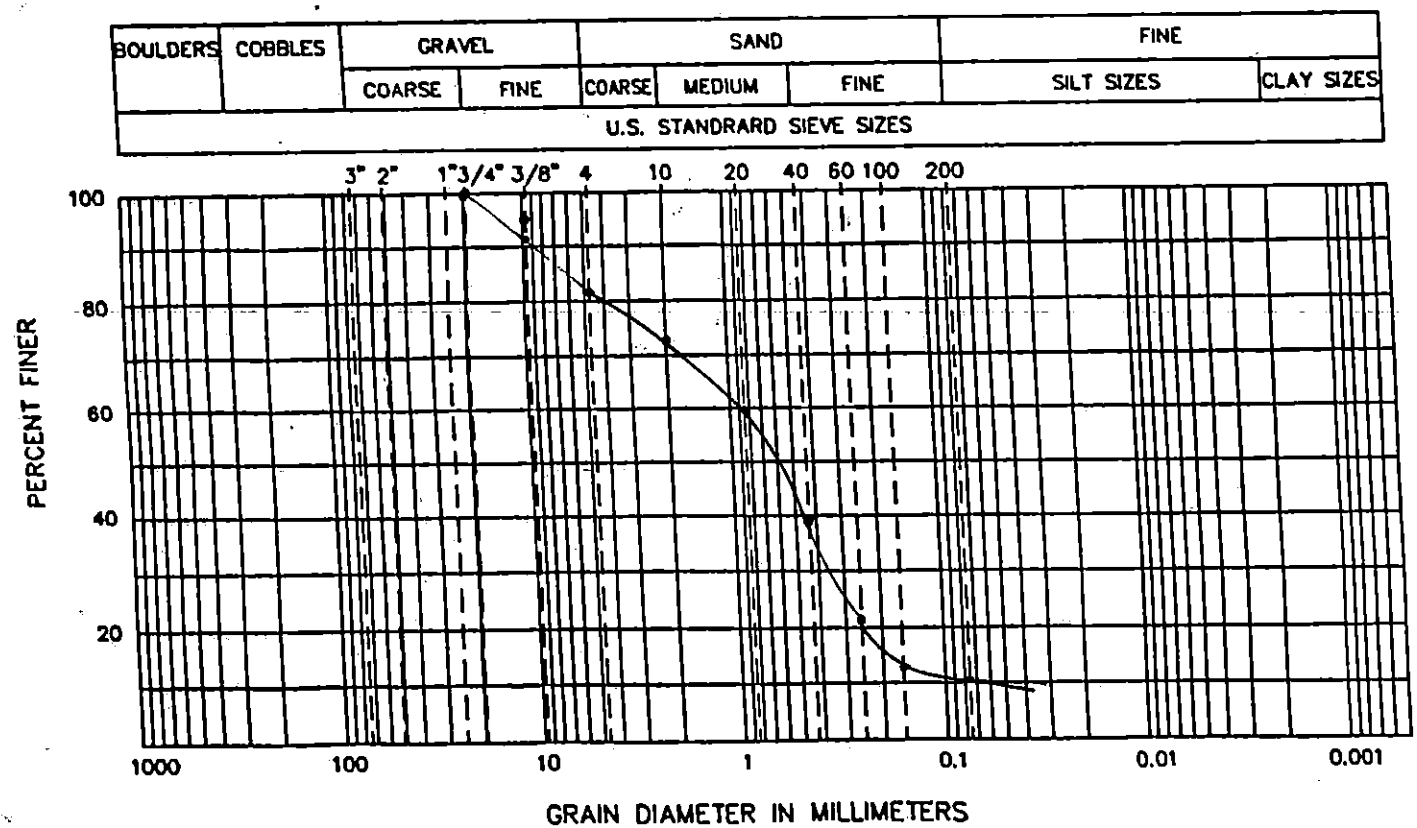
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-43 QA ID: 2/R



CURVE COEFFICIENTS

(C_u) 15

(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.	95.4
3/8-in.	91.5
NO. 4	81.8
NO. 10	72.5
NO. 20	59.9
NO. 40	38.0
NO. 60	21.0
NO. 100	14.0
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: 06 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-43 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)	10331	10579	10566		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4486	4734	4721		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	130.1	137.3	136.9		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	122.7	127.1	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)	624.9	558.0	611.3		
H	WT. OF DRY SOIL & TARE	(grams)	589.5	516.5	555.8		
I	WT. OF WATER = G - H	(grams)	35.4	41.5	55.5		
J	WT. DRY SOIL = H - F	(grams)	581.5	508.5	547.7		
K	MOISTURE CONTENT = (I/J) X 100	(%)	6.0%	8.0%	10.0%		

GeoSyntec Consultants

TOWN OF HUNTINGTON

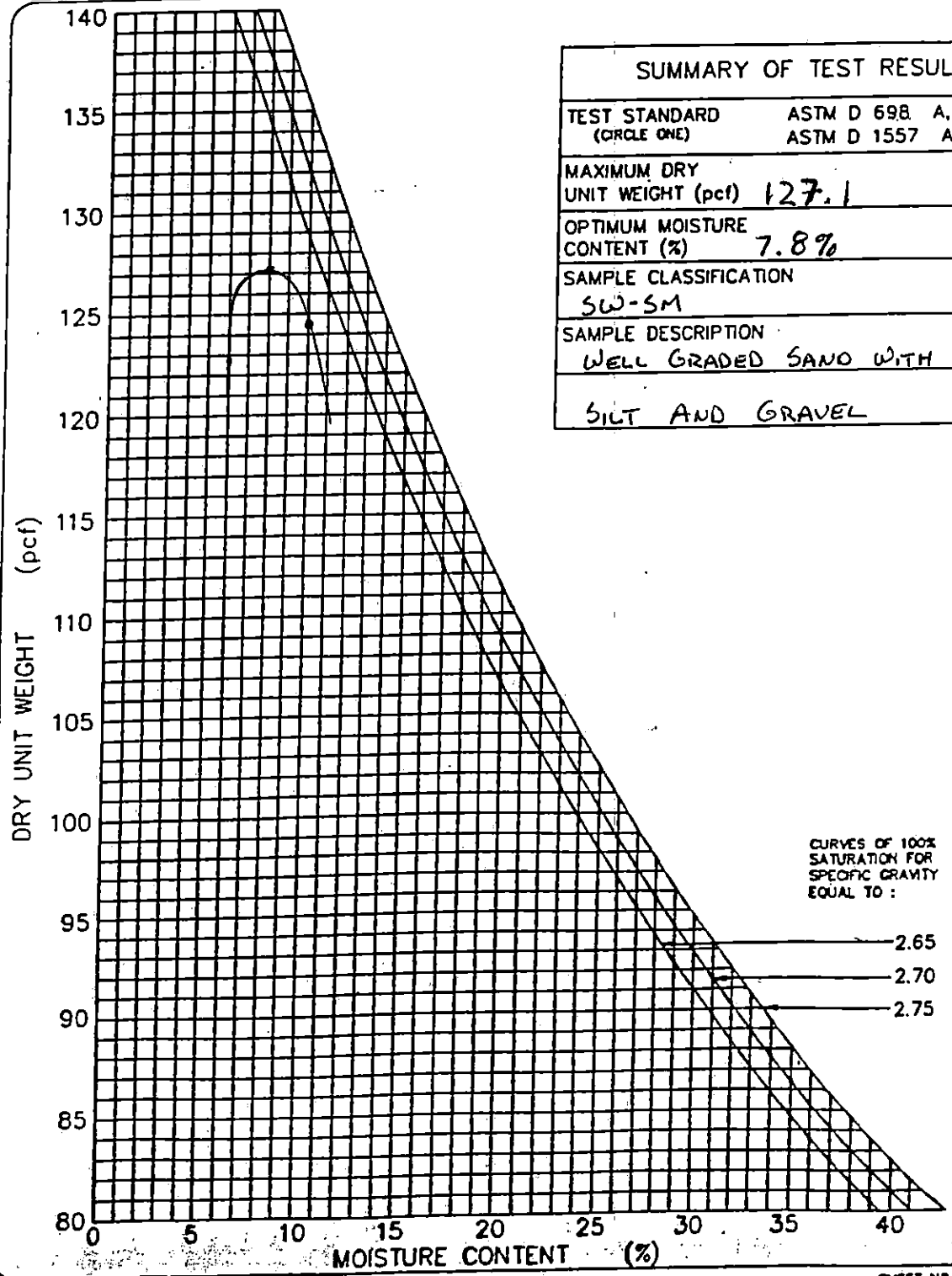
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-43 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)	127.1
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 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-44 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)	1761.5	1590.4
WT. OF TARE	(grams)	20.7	15.9
WT. OF DRY SAMPLE	(grams)	1740.8	1574.5

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	58.9	3.4	96.6	
3/8"	9.5	131.5	7.6	92.4	
4	4.75	283.8	16.3	83.7	
10	2.0	443.5	25.5	74.5	
20	0.850	667.5	38.3	61.7	
40	0.425	1062.9	61.1	38.9	
60	0.250	1386.7	79.7	20.3	
100	0.150	1518.9	87.3	12.7	
200	0.075	1570.7	90.2	9.8	

%FINER = 100 − Σ % RETAINED

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GeoSyntec Consultants

TOWN OF HUNTINGTON

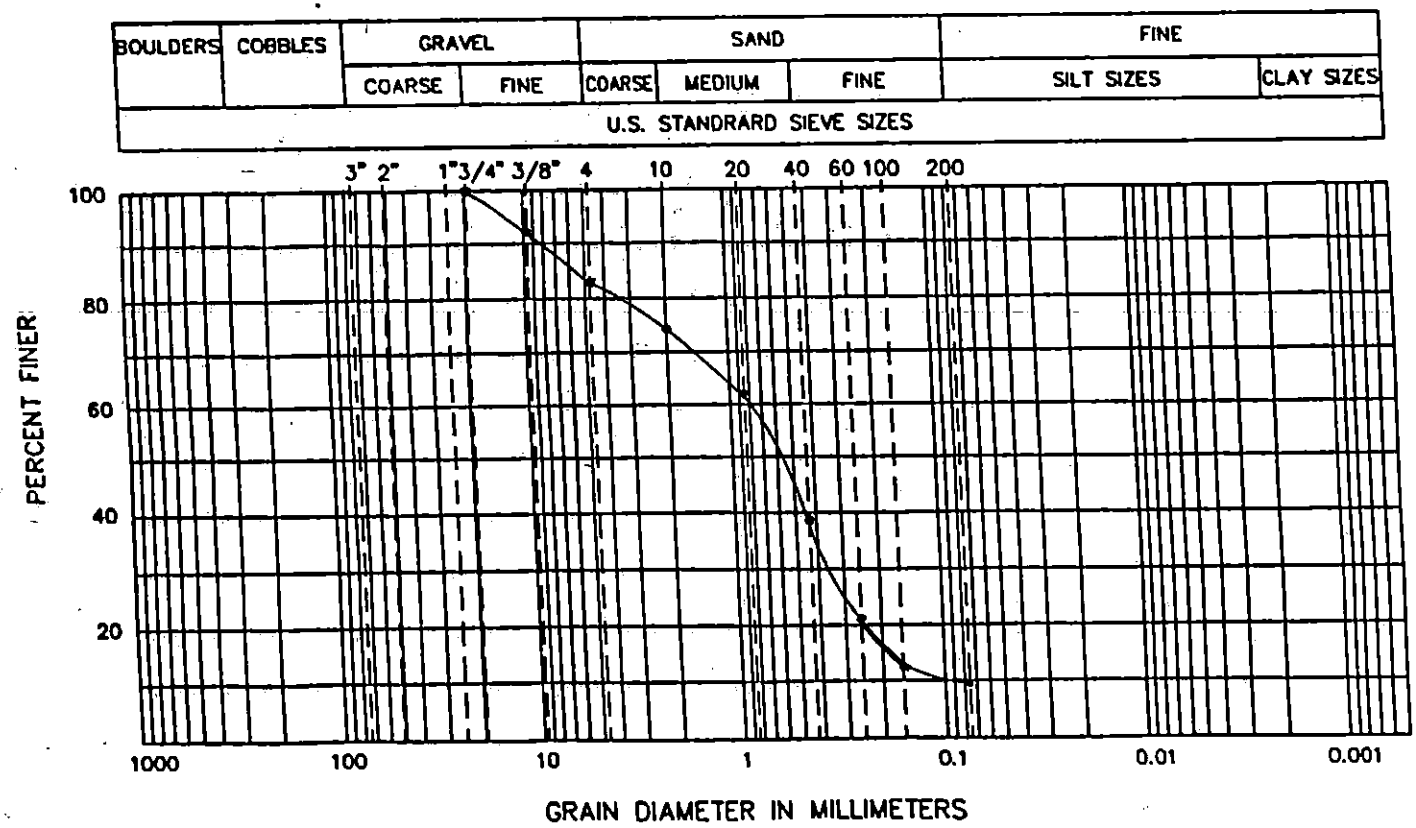
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-44 QA ID: DAP



CURVE COEFFICIENTS

(C_u) 8.9

(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.	96.6
3/8-in.	92.4
NO. 4	83.7
NO. 10	74.5
NO. 20	61.7
NO. 40	38.9
NO. 60	20.3
NO. 100	12.7
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: 07 day 06 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-44 — 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)	10369	10540	10545		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4524	4695	4700		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	131.2	136.2	136.3		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	124.6	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)	8.1	8.0	8.0		
G	WT. OF WET SOIL & TARE	(grams)	616.5	646.0	720.4		
H	WT. OF DRY SOIL & TARE	(grams)	586.1	601.1	656.7		
I	WT. OF WATER = G - H	(grams)	30.4	44.9	63.7		
J	WT. DRY SOIL = H - F	(grams)	578.0	593.1	648.7		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.3%	7.6%	9.8%		

GeoSyntec Consultants

TOWN OF HUNTINGTON

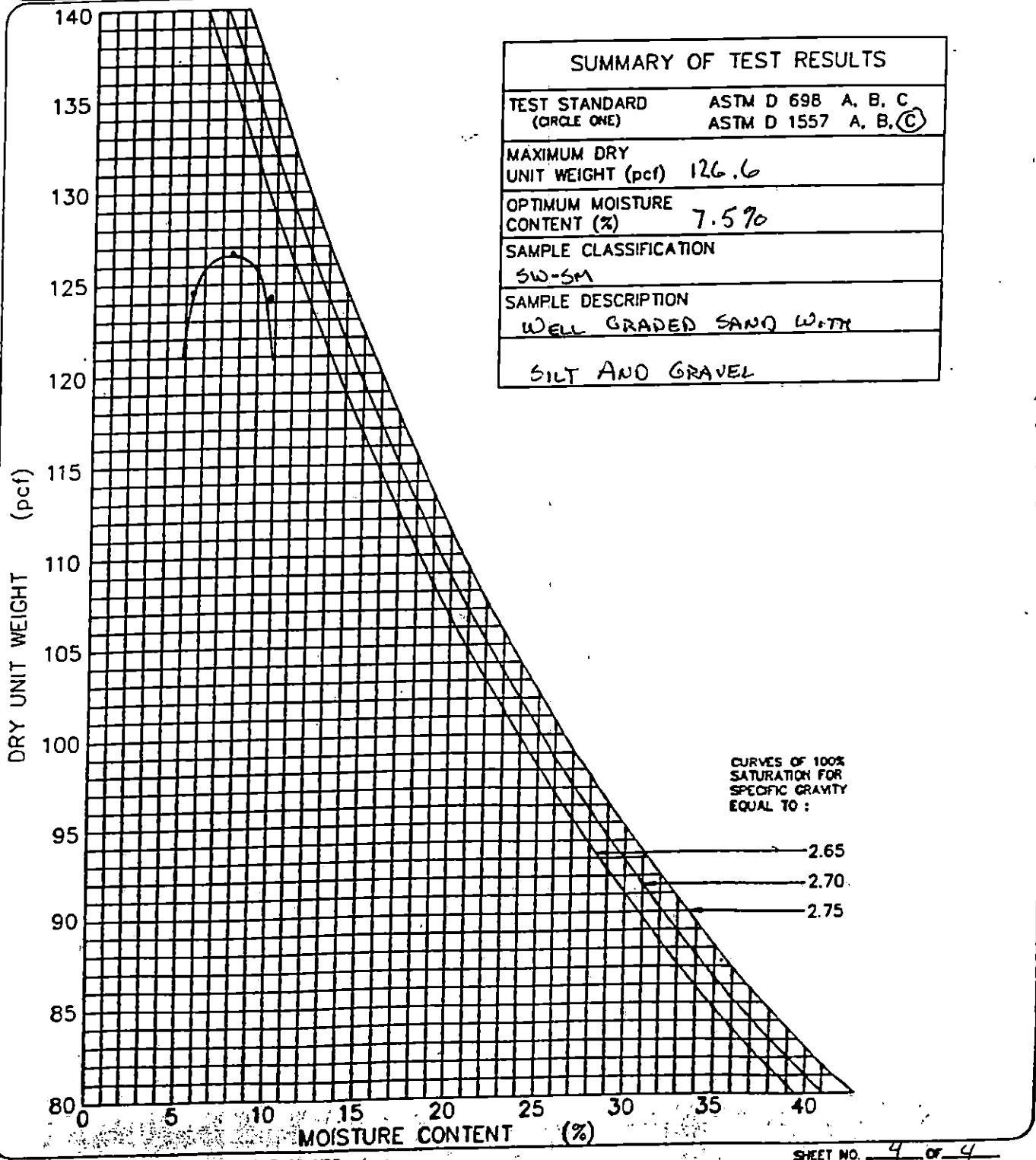
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-44 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)	126.6
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: 08 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-45 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)	1861.1	1613.7
WT. OF TARE	(grams)	24.1	16.0
WT. OF DRY SAMPLE	(grams)	1837.0	1597.7

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	60.4	3.3	96.7%	
3/8"	9.5	123.6	6.7	93.3%	
4	4.75	325.8	17.7	82.3%	
10	2.0	519.7	28.3	71.7%	
20	0.850	755.6	41.1	58.9%	
40	0.425	1119.0	60.9	39.1%	
60	0.250	1409.6	76.7	23.3%	
100	0.150	1538.6	83.8	16.2%	
200	0.075	1595.6	86.9	13.1%	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

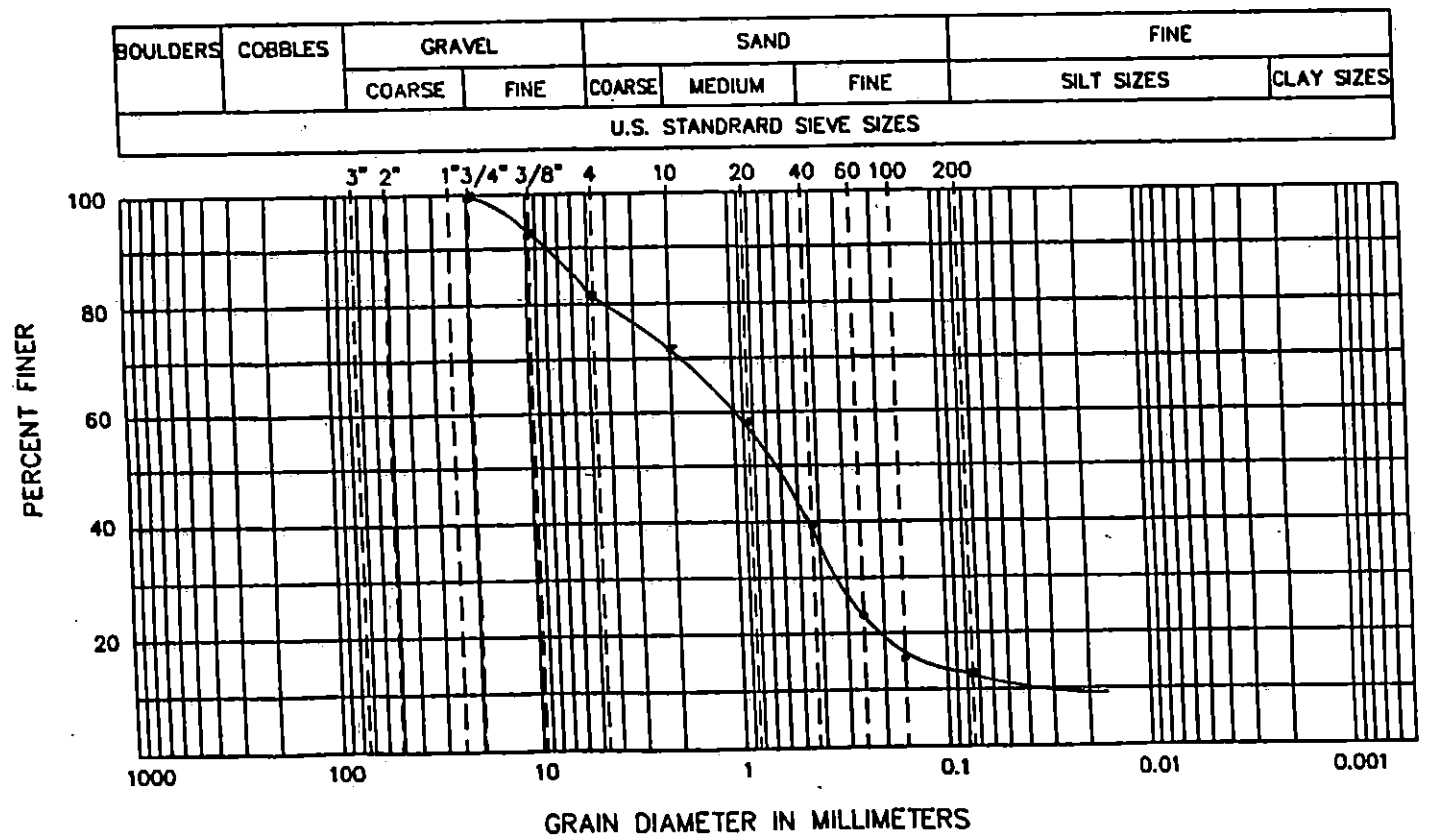
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 08 day 06 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-45 — QA ID: DAR



CURVE COEFFICIENTS

(C_u) 26.3

(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.	96.7
3/8-in.	93.3
NO. 4	82.3
NO. 10	71.7
NO. 20	58.9
NO. 40	39.1
NO. 60	23.3
NO. 100	16.2
NO. 200	13.1

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: 08 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-45 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)	10509	10706	10615		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4664	4861	4770		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	135.3	141.0	138.3		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	127.4	131.4	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	8.2		
G	WT. OF WET SOIL & TARE	(grams)	639.4	605.6	593.6		
H	WT. OF DRY SOIL & TARE	(grams)	602.8	565.1	540.5		
I	WT. OF WATER = G - H	(grams)	36.6	40.5	53.1		
J	WT. DRY SOIL = H - F	(grams)	594.9	557.1	532.3		
K	MOISTURE CONTENT = (I/J) X 100	(%)	6.2%	7.3%	10.0%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

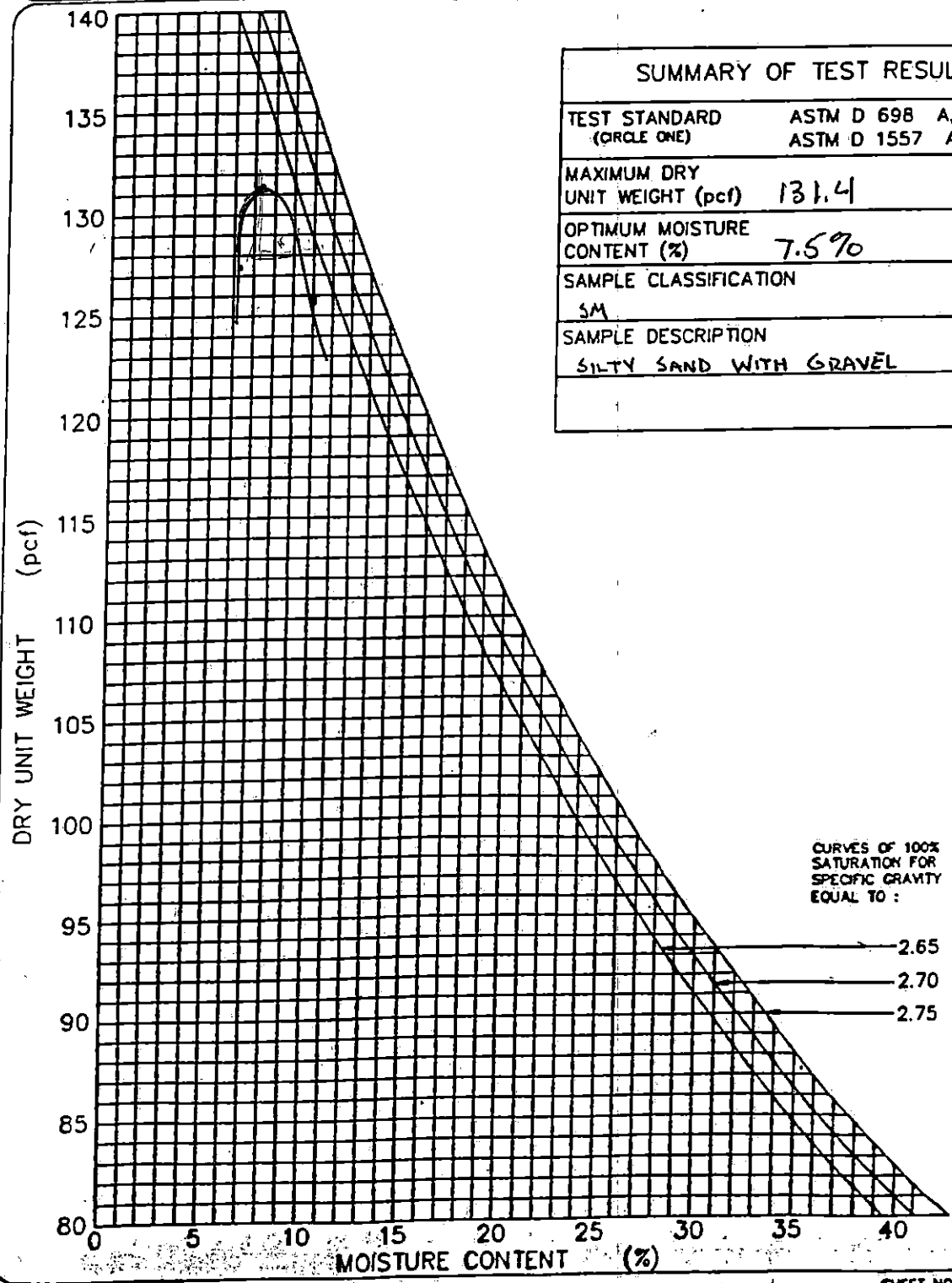
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 08 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-45 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)	131.4
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: 09 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-46 QA ID: _____

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)	1661.4	1487.7
WT. OF TARE	(grams)	20.3	15.7
WT. OF DRY SAMPLE	(grams)	1641.1	1472.0

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	32.2	2.0	98.0%	
3/8"	9.5	75.5	4.6	95.4%	
4	4.75	224.9	13.7	86.3%	
10	2.0	394.4	24.0	76.0%	
20	0.850	624.5	38.1	61.9%	
40	0.425	1008.5	61.5	38.5%	
60	0.250	1306.8	79.6	20.4%	
100	0.150	1423.5	86.7	13.3%	
200	0.075	1468.8	89.5	10.5%	

%FINER = 100 − Σ% RETAINED

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GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

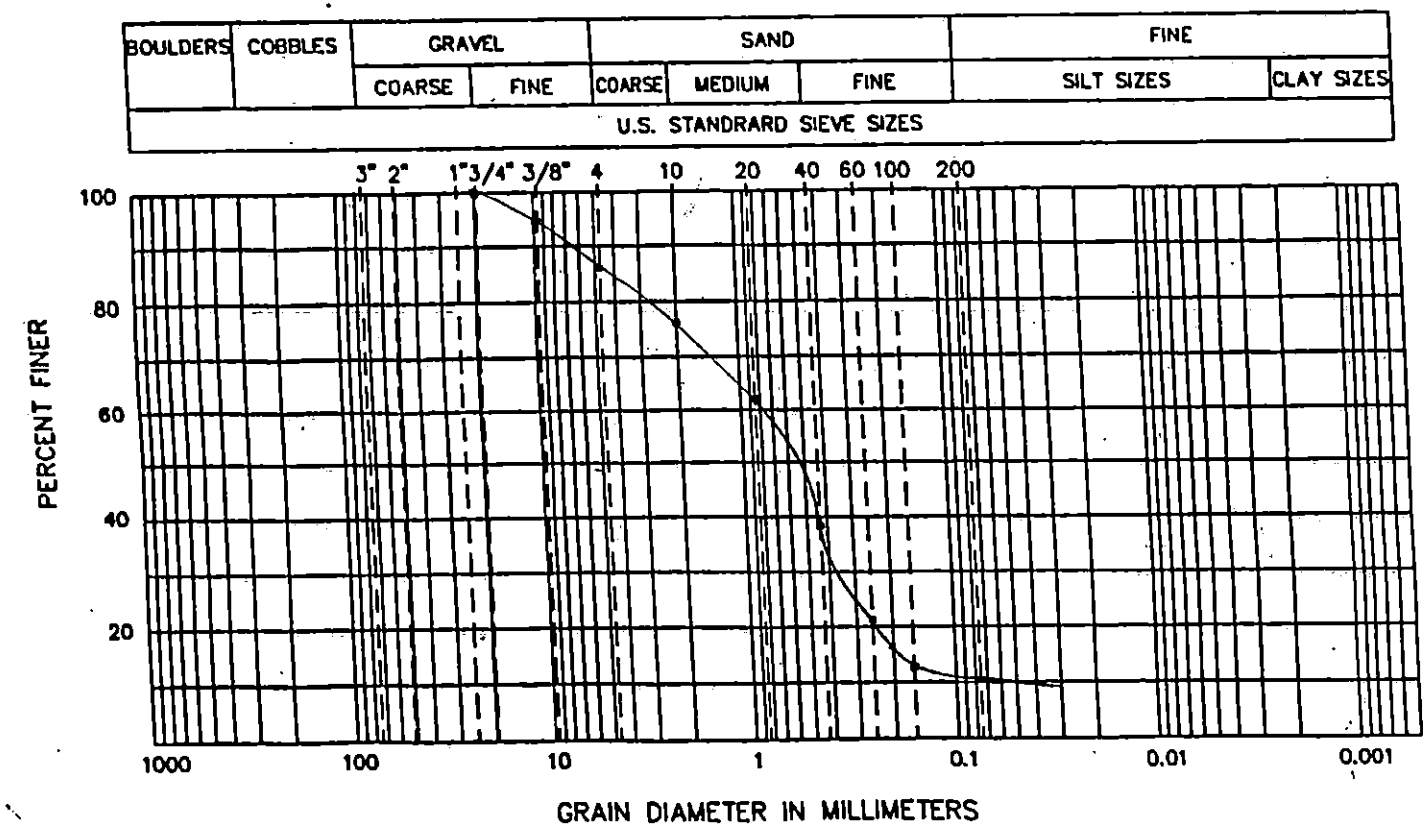
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 09 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-46 QA ID: 2/R



CURVE COEFFICIENTS

(C_u) 13.2

(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.	98.0%
3/8-in.	95.4%
NO. 4	86.3%
NO. 10	76.0%
NO. 20	61.9%
NO. 40	38.5%
NO. 60	20.4%
NO. 100	13.3%
NO. 200	10.5%

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: 09 day 06 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-46 — 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)	10344	10399	10530		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4499	4554	4685		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	130.5	132.1	135.9		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.9	124.7	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)	8.6	8.4	8.3		
G	WT. OF WET SOIL & TARE	(grams)	617.6	662.0	714.2		
H	WT. OF DRY SOIL & TARE	(grams)	586.8	625.4	653.8		
I	WT. OF WATER = G - H	(grams)	30.8	36.6	60.4		
J	WT. DRY SOIL = H - F	(grams)	578.2	617.0	645.5		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.3%	5.9%	9.4%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

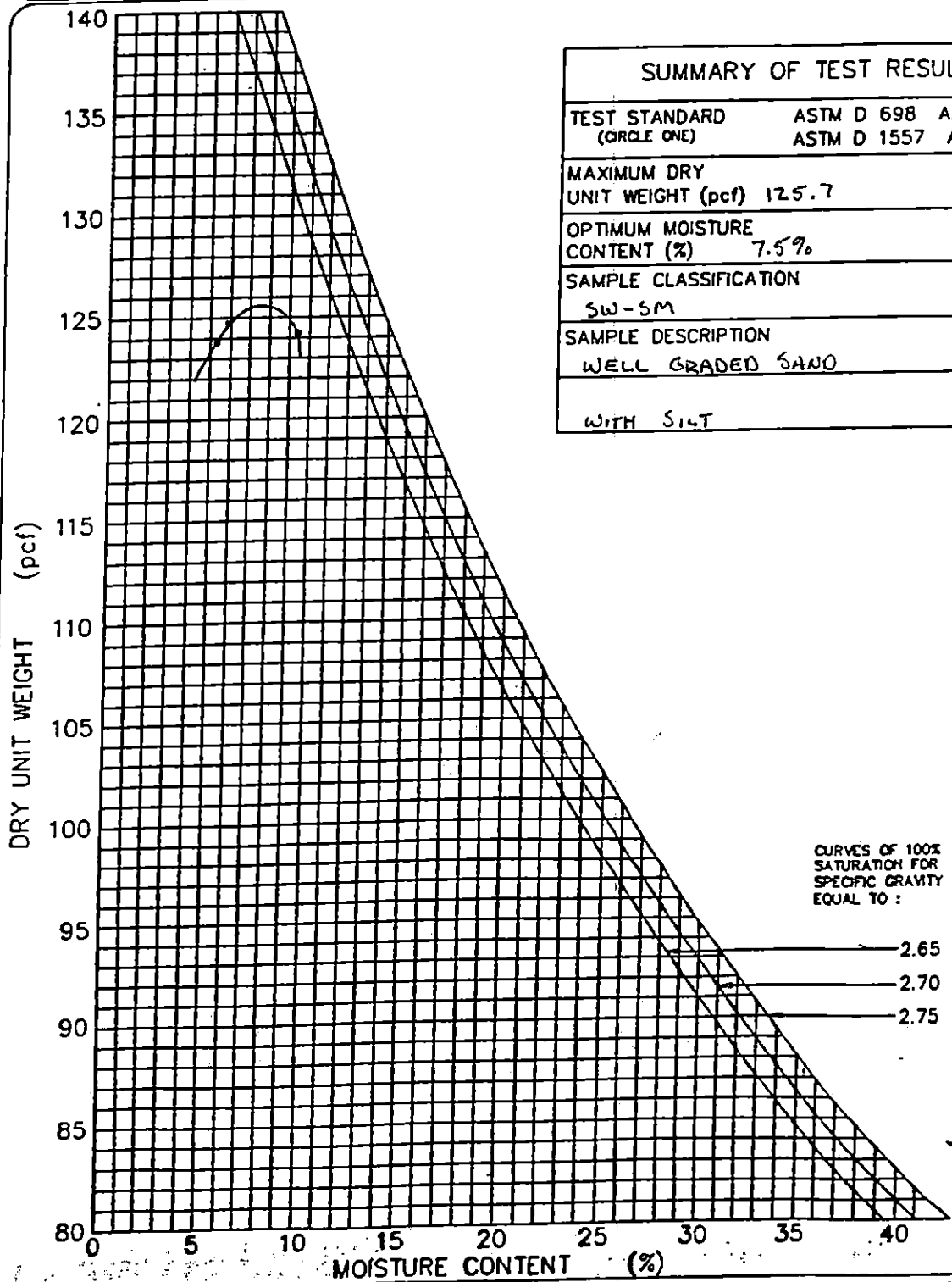
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 09 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-46 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)	125.7
OPTIMUM MOISTURE CONTENT (%)	7.5%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT



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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 06 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-47 QA ID: DJK

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)	1942.6	1762.2
WT. OF TARE	(grams)	20.4	15.9
WT. OF DRY SAMPLE	(grams)	1922.2	1746.3

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	94.4	4.9	95.1%	
3/8"	9.5	167.8	8.7	91.3%	
4	4.75	358.7	18.7	81.3%	
10	2.0	558.6	29.1	70.9%	
20	0.850	801.1	41.7	58.3%	
40	0.425	1214.1	63.2	36.8%	
60	0.250	1546.7	80.5	19.5%	
100	0.150	1684.0	87.6	12.4%	
200	0.075	1742.8	90.7	9.3%	

%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

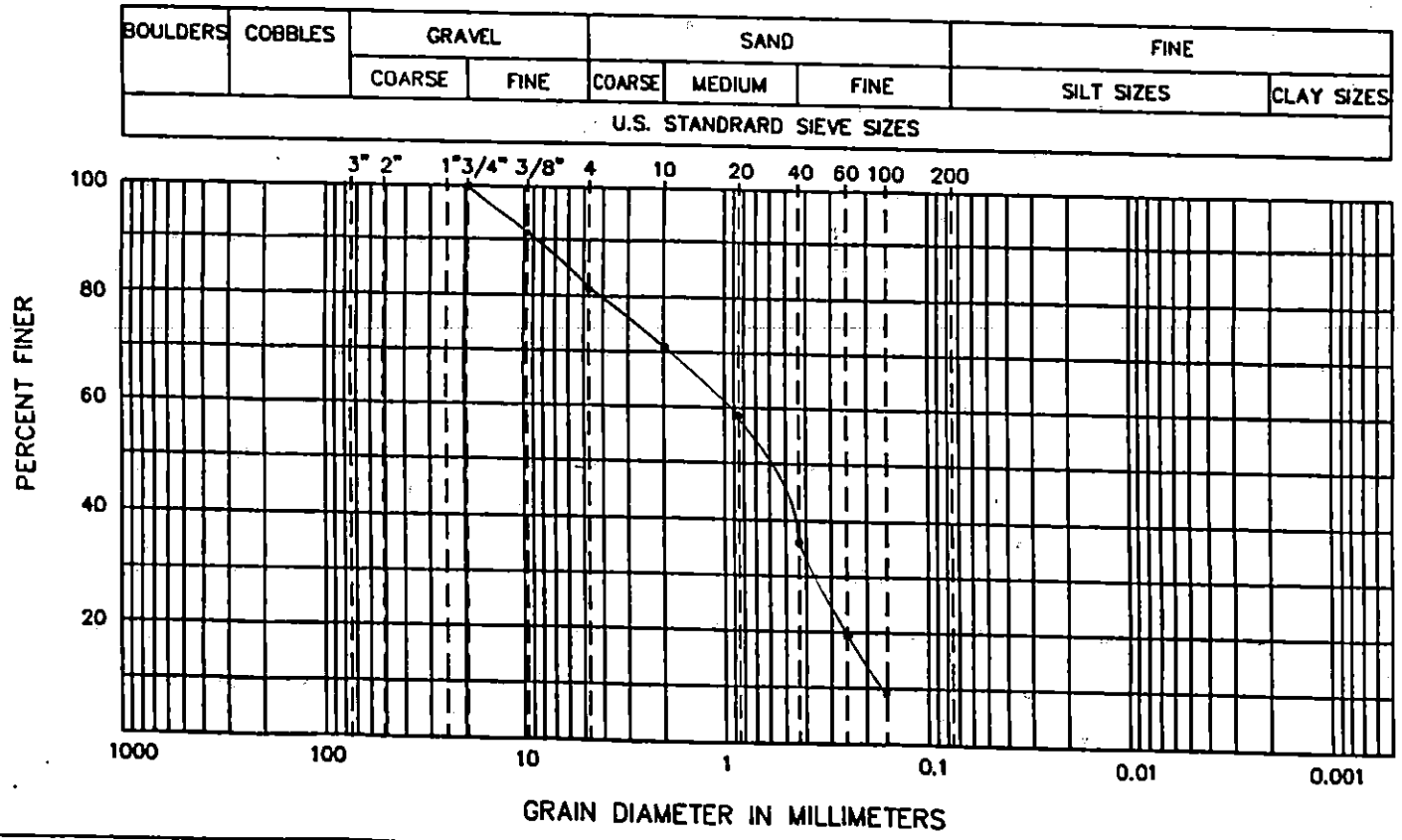
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 12 day 06 month 95 year

SAMPLE NO.: S-47 QA ID: 2/R



CURVE COEFFICIENTS

(C_u) 6.1

(C_c) 1.1

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.	95.1%
3/8-in.	91.3%
NO. 4	81.3%
NO. 10	70.9%
NO. 20	58.3%
NO. 40	36.8%
NO. 60	19.5%
NO. 100	12.4%
NO. 200	9.3%

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: 12 day 06 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-47 — 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)	10392	10524	10565		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4547	4679	4720		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	131.9	135.7	136.9		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	125.5	126.1	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)	8.0	8.0	8.1		
G	WT. OF WET SOIL & TARE	(grams)	645.9	596.1	678.1		
H	WT. OF DRY SOIL & TARE	(grams)	614.8	554.8	619.0		
I	WT. OF WATER = G - H	(grams)	31.1	41.3	59.1		
J	WT. DRY SOIL = H - F	(grams)	606.8	546.8	610.9		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.1%	7.6%	9.7%		

GeoSyntec Consultants

TOWN OF HUNTINGTON

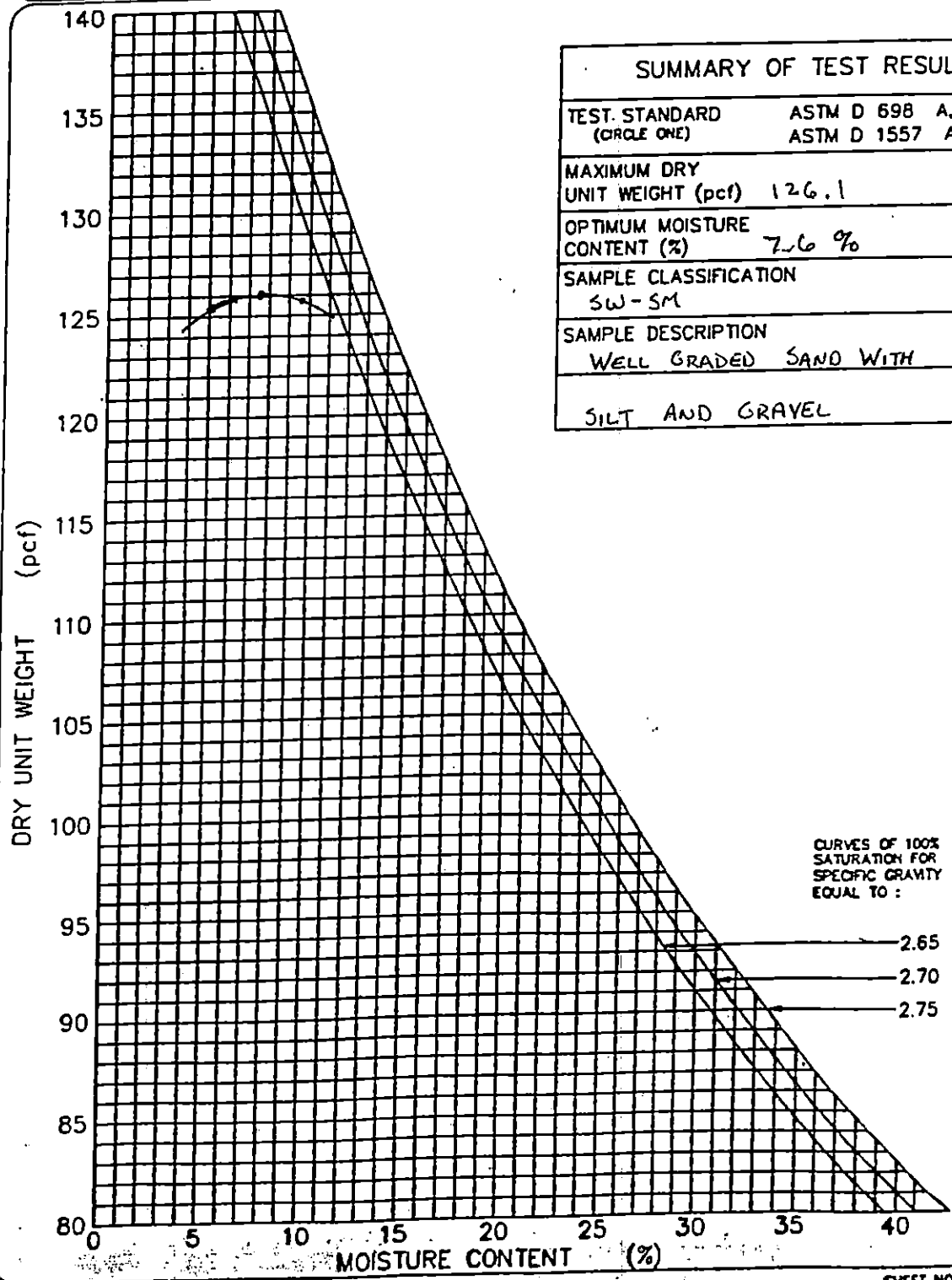
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 12 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-47 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)	126.1
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: 13 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-48 QA ID: P/F

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)	1813.2	1612.8
WT. OF TARE	(grams)	18.1	15.8
WT. OF DRY SAMPLE	(grams)	1795.1	1597.0

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	28.1	1.6	98.4%	
3/8"	9.5	79.2	4.4	95.6%	
4	4.75	279.4	15.6	84.4%	
10	2.0	469.5	26.2	73.8%	
20	0.850	692.9	38.6	61.4%	
40	0.425	1084.5	60.4	39.6%	
60	0.250	1399.4	78.0	22.0%	
100	0.150	1532.0	85.3	14.7%	
200	0.075	1592.4	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

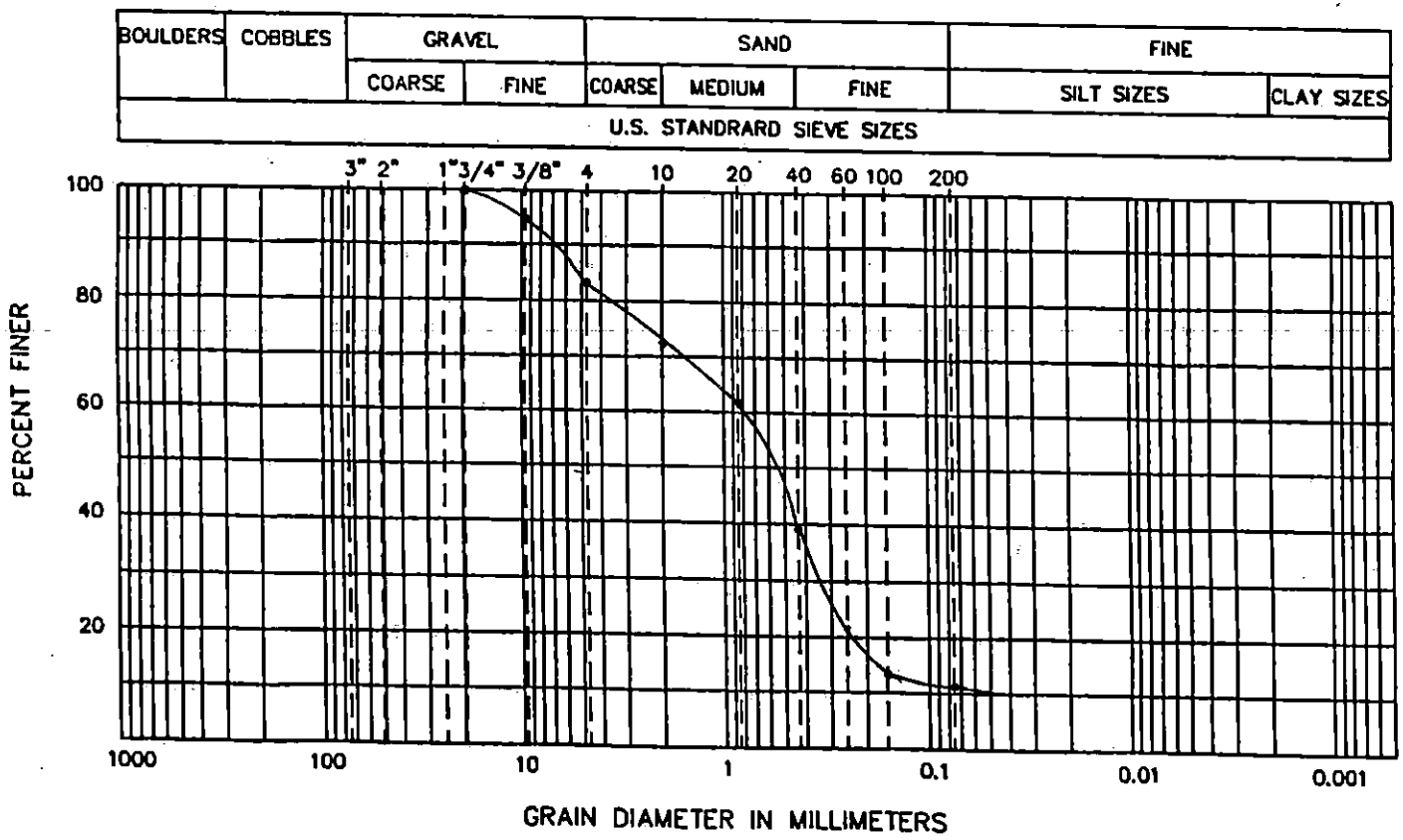
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 13 day 06 month 95 year

SAMPLE NO.: S-48 QA ID: P/R



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.	98.4
3/8-in.	95.6
NO. 4	84.4
NO. 10	73.8
NO. 20	61.4
NO. 40	39.6
NO. 60	22.0
NO. 100	14.7
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: 13 day 06 month 95 year

SOURCE: B. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-48 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)	10349	10611	10601		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4504	4766	4756		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	130.6	138.2	137.9		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	124.5	128.9	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)	8.1	7.7	8.1		
G	WT. OF WET SOIL & TARE	(grams)	642.3	551.4	668.6		
H	WT. OF DRY SOIL & TARE	(grams)	612.8	514.9	611.9		
I	WT. OF WATER = G - H	(grams)	29.5	36.5	56.7		
J	WT. DRY SOIL = H - F	(grams)	604.7	507.2	603.8		
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.9%	7.2%	9.4%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

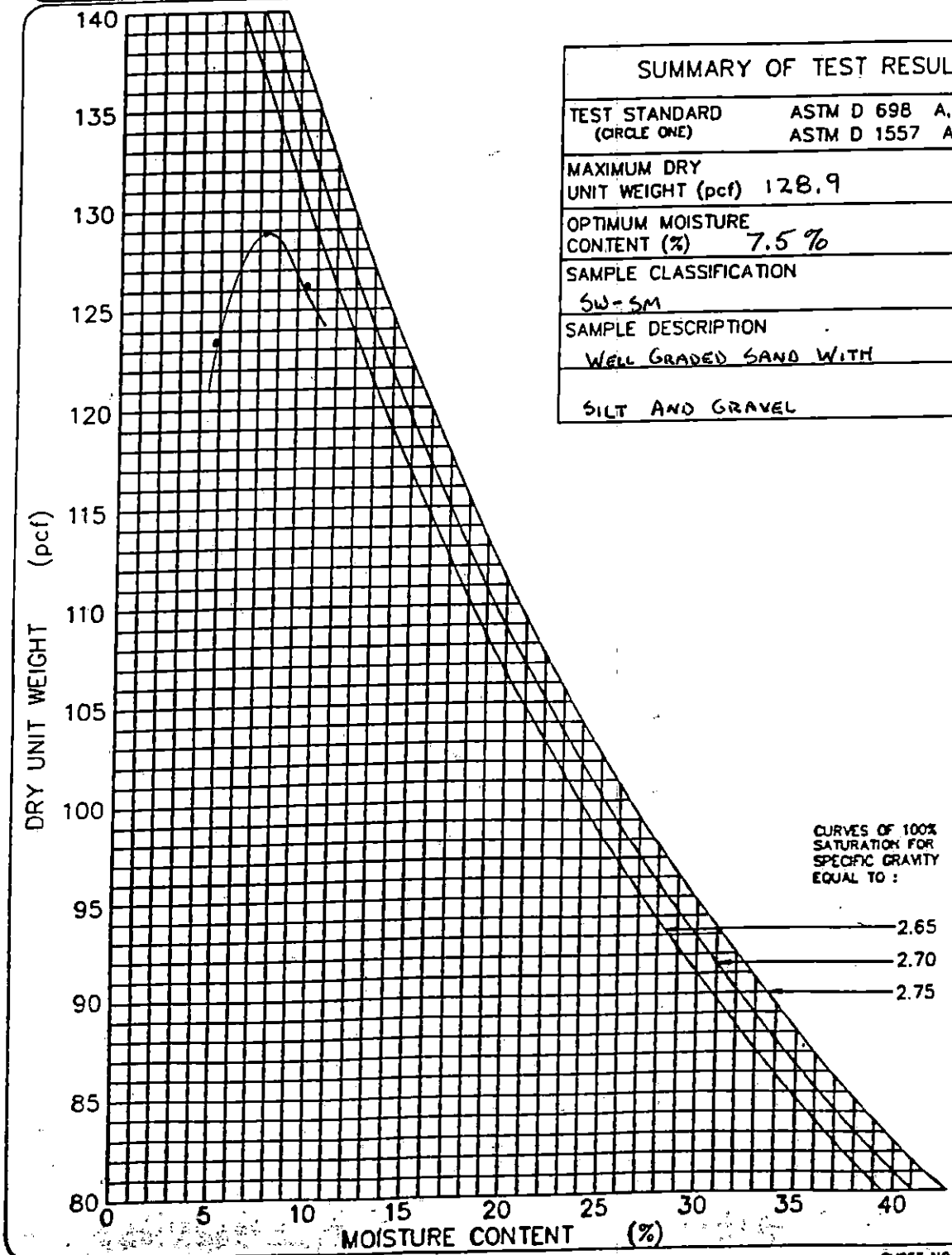
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 13 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-48 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)	128.9
OPTIMUM MOISTURE CONTENT (%)	7.5 %
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: 14 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-49 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)	1968.5	1770.6
WT. OF TARE	(grams)	18.1	15.8
WT. OF DRY SAMPLE	(grams)	1950.4	1754.8

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	39.1	2.0	98.0%	
3/8"	9.5	79.5	4.1	95.9 %	
4	4.75	254.5	13.0	87.0%	
10	2.0	463.0	23.7	76.3%	
20	0.850	748.8	38.4	61.6%	
40	0.425	1210.4	62.1	37.9%	
60	0.250	1548.9	79.4	20.6%	
100	0.150	1686.4	86.5	13.5%	
200	0.075	1750.5	89.8	10.2%	

%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

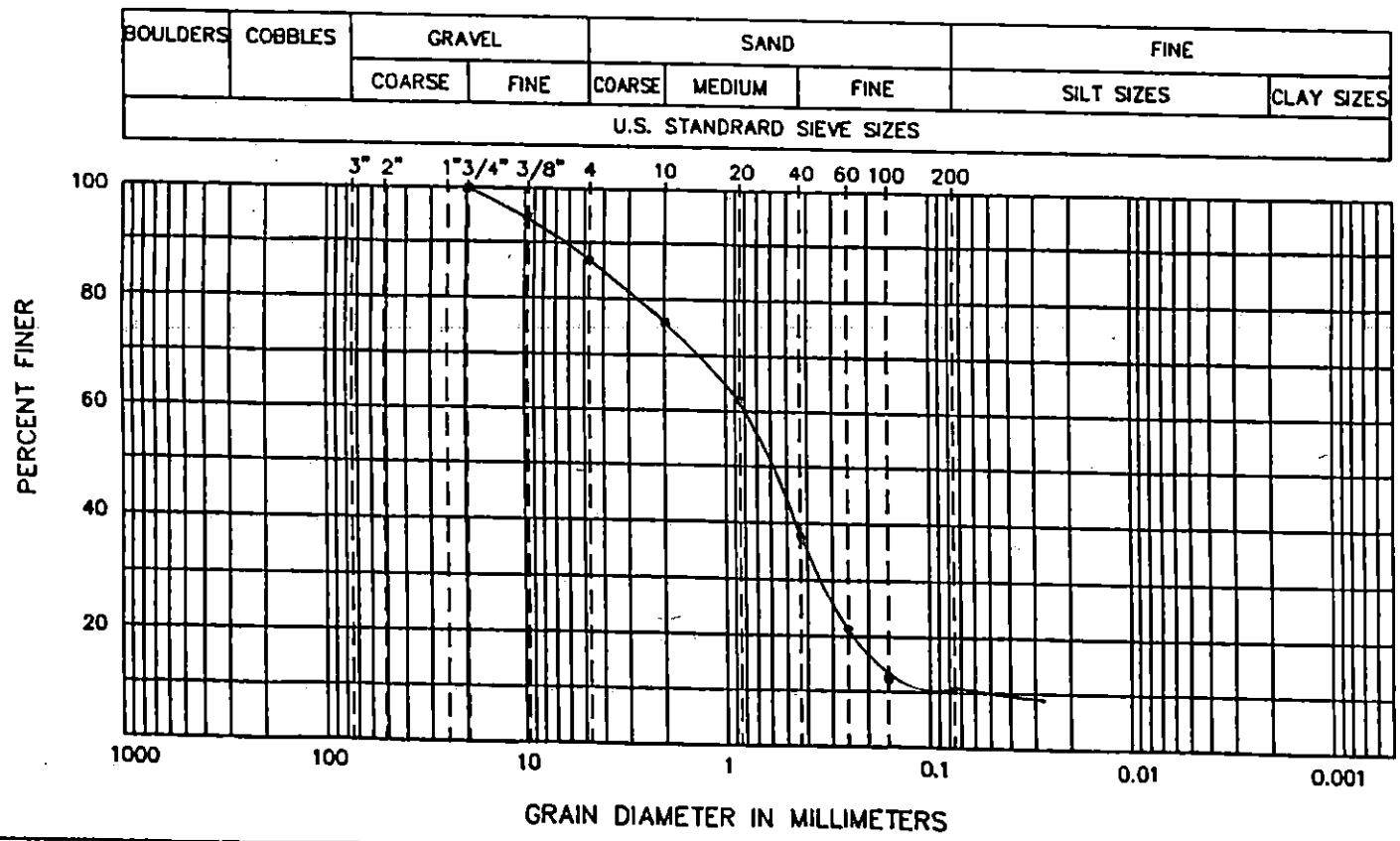
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 14 day 06 month 95 year

SAMPLE NO.: S-49 QA ID: 217



CURVE COEFFICIENTS

(C_u) 16.0

(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.	98.0
3/8-in.	95.9
NO. 4	87.0
NO. 10	76.3
NO. 20	61.6
NO. 40	37.9
NO. 60	20.6
NO. 100	13.5
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: 14 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-49 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)	10295	10500	10535		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4450	4655	4690		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	129.1	135.0	136.0		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	122.7	125.9	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)	7.9	8.0	8.0		
G	WT. OF WET SOIL & TARE	(grams)	651.6	650.1	655.3		
H	WT. OF DRY SOIL & TARE	(grams)	620.0	607.0	598.2		
I	WT. OF WATER = G - H	(grams)	31.6	43.1	57.1		
J	WT. DRY SOIL = H - F	(grams)	612.1	599.0	590.2		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.2%	7.2%	9.7%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

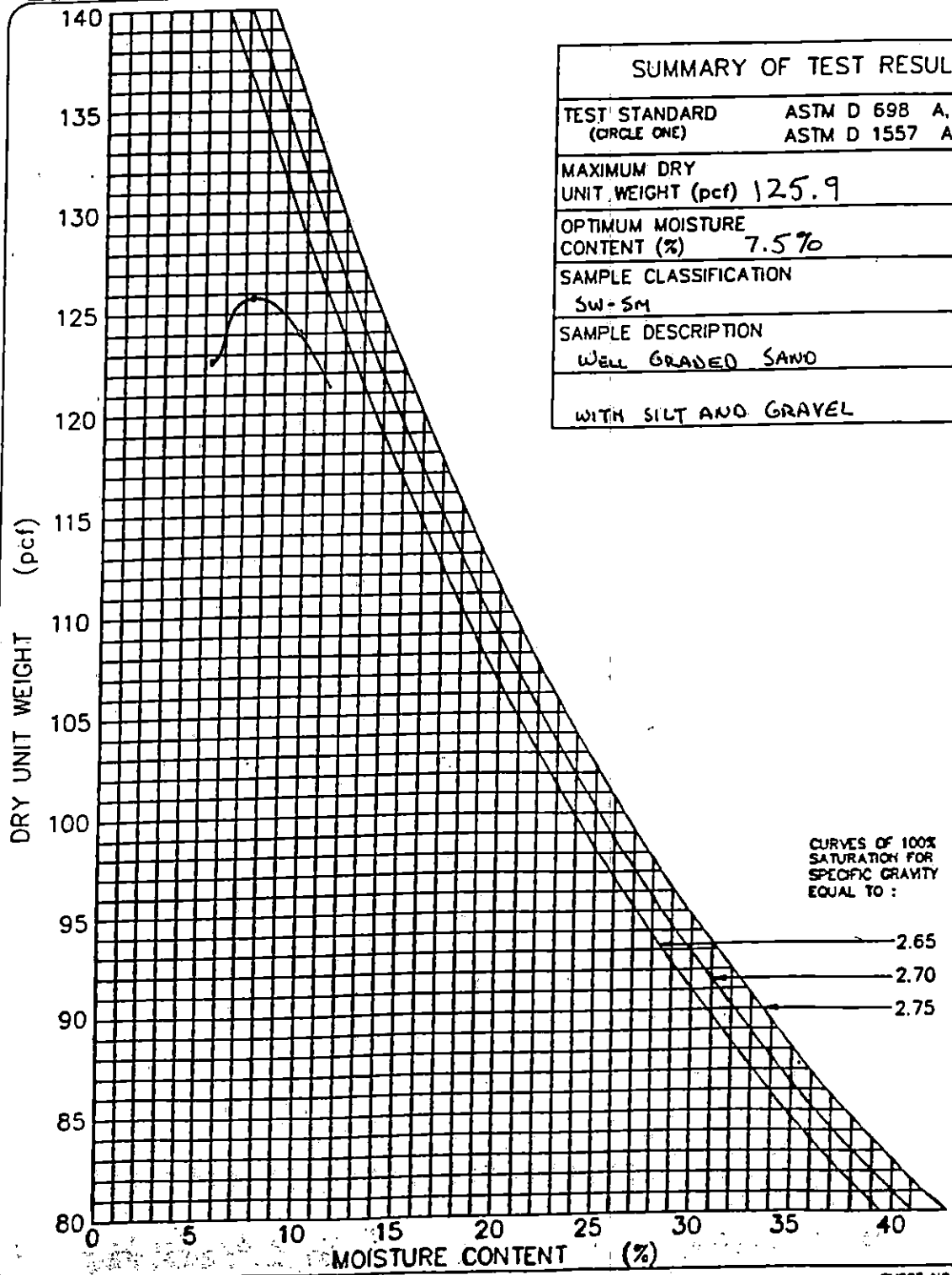
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 14 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-49 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 (%)	7.5%
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: 15 day 06 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ACT. SELECT SAMPLE NO.: S-50 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)	1925.6	1719.9
WT. OF TARE	(grams)	20.3	15.7
WT. OF DRY SAMPLE	(grams)	1905.3	1704.2

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	33.5	1.8	98.2	
3/8"	9.5	106.8	5.6	94.4	
4	4.75	317.9	16.7	83.3	
10	2.0	517.9	27.2	72.8	
20	0.850	770.7	40.5	59.5	
40	0.425	1213.3	63.7	36.3	
60	0.250	1527.8	80.2	19.8	
100	0.150	1649.6	86.6	13.4	
200	0.075	1700.9	89.3	10.7	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

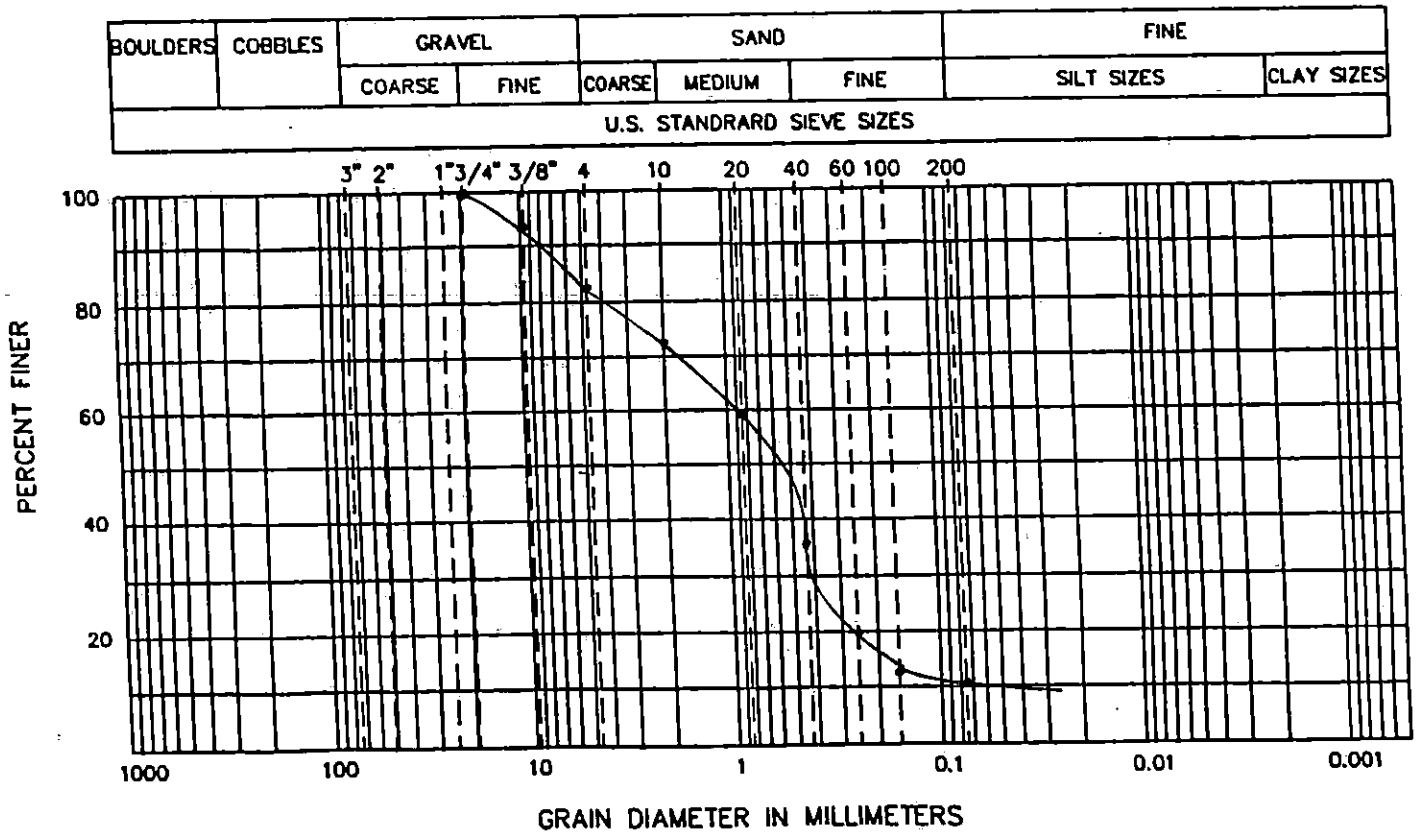
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 15 day 06 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-50 — QA ID: D/R



CURVE COEFFICIENTS

(C_u) 15.3

(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.	98.2
3/8-in.	94.4
NO. 4	83.3
NO. 10	72.8
NO. 20	59.5
NO. 40	36.3
NO. 60	19.8
NO. 100	13.4
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: 15 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-50 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)	10364	10545	10610		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4519	4700	4765		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	131.1	136.3	138.2		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	124.0	126.9	126.4		

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)	7.8	8.0	8.2		
G	WT. OF WET SOIL & TARE	(grams)	559.3	572.4	544.3		
H	WT. OF DRY SOIL & TARE	(grams)	529.4	533.6	498.9		
I	WT. OF WATER = G - H	(grams)	29.9	38.8	45.4		
J	WT. DRY SOIL = H - F	(grams)	521.6	525.6	490.7		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.7 %	7.4%	9.3%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

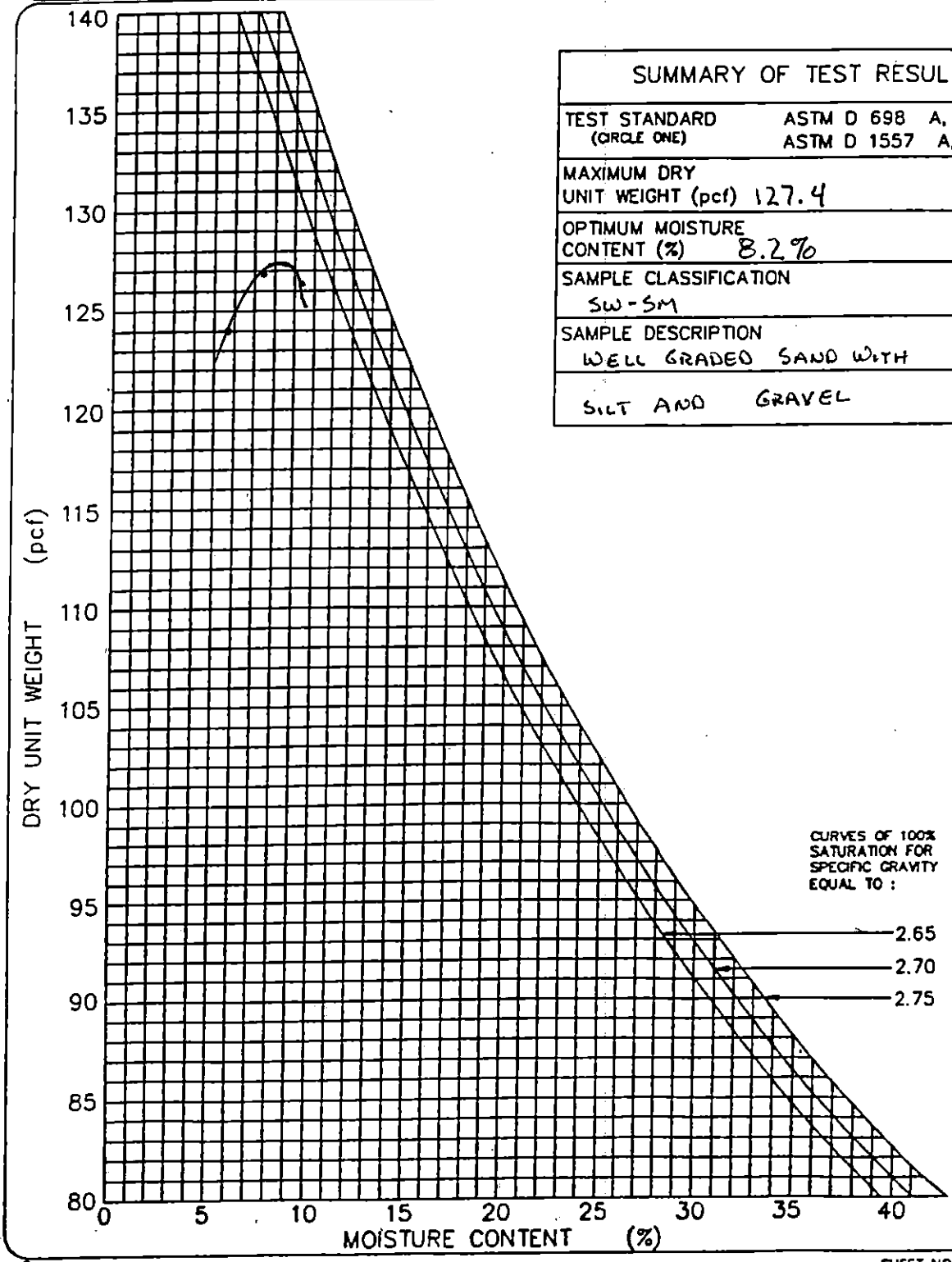
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 15 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-50 QA ID: DJP



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)	127.4
OPTIMUM MOISTURE CONTENT (%)	8.2%
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: 16 day 06 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-51 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)	1906.8	1695.3
WT. OF TARE	(grams)	20.1	16.0
WT. OF DRY SAMPLE	(grams)	1886.7	1679.3

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	51.4	2.7	97.3	
3/8"	9.5	137.7	7.3	92.7	
4	4.75	327.0	17.3	82.7	
10	2.0	517.4	27.4	72.6	
20	0.850	755.7	40.1	59.9	
40	0.475	1150.3	61.0	39.0	
60	0.250	1470.2	77.9	22.1	
100	0.150	1564.3	82.9	17.1	
200	0.075	1665.7	88.3	11.7	

%FINER = 100 − Σ% RETAINED

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GeoSyntec Consultants

TOWN OF HUNTINGTON

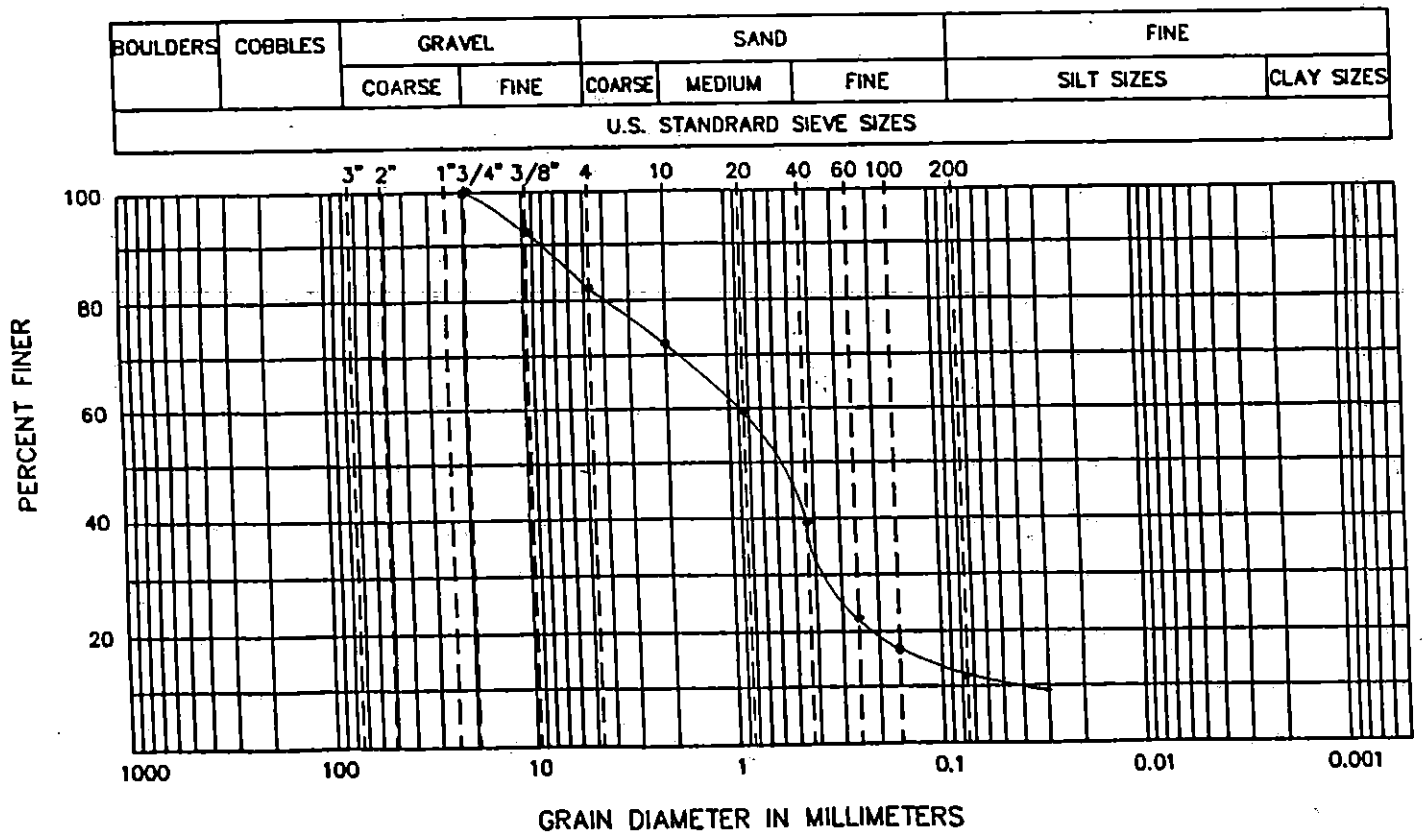
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 16 day 06 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-51 — QA ID: 24R



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.	97.3
3/8-in.	92.7
NO. 4	82.7
NO. 10	72.6
NO. 20	59.9
NO. 40	39.0
NO. 60	22.1
NO. 100	17.1
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: 16 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-51 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)	10344	10605	10592		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4499	4760	4747		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	130.5	138.0	137.7		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.5	128.4	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	7.9	8.1		
G	WT. OF WET SOIL & TARE	(grams)	555.6	599.8	589.5		
H	WT. OF DRY SOIL & TARE	(grams)	526.1	558.5	537.4		
I	WT. OF WATER = G - H	(grams)	29.5	41.3	52.1		
J	WT. DRY SOIL = H - F	(grams)	518.1	550.6	529.3		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.7%	7.5%	9.8%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

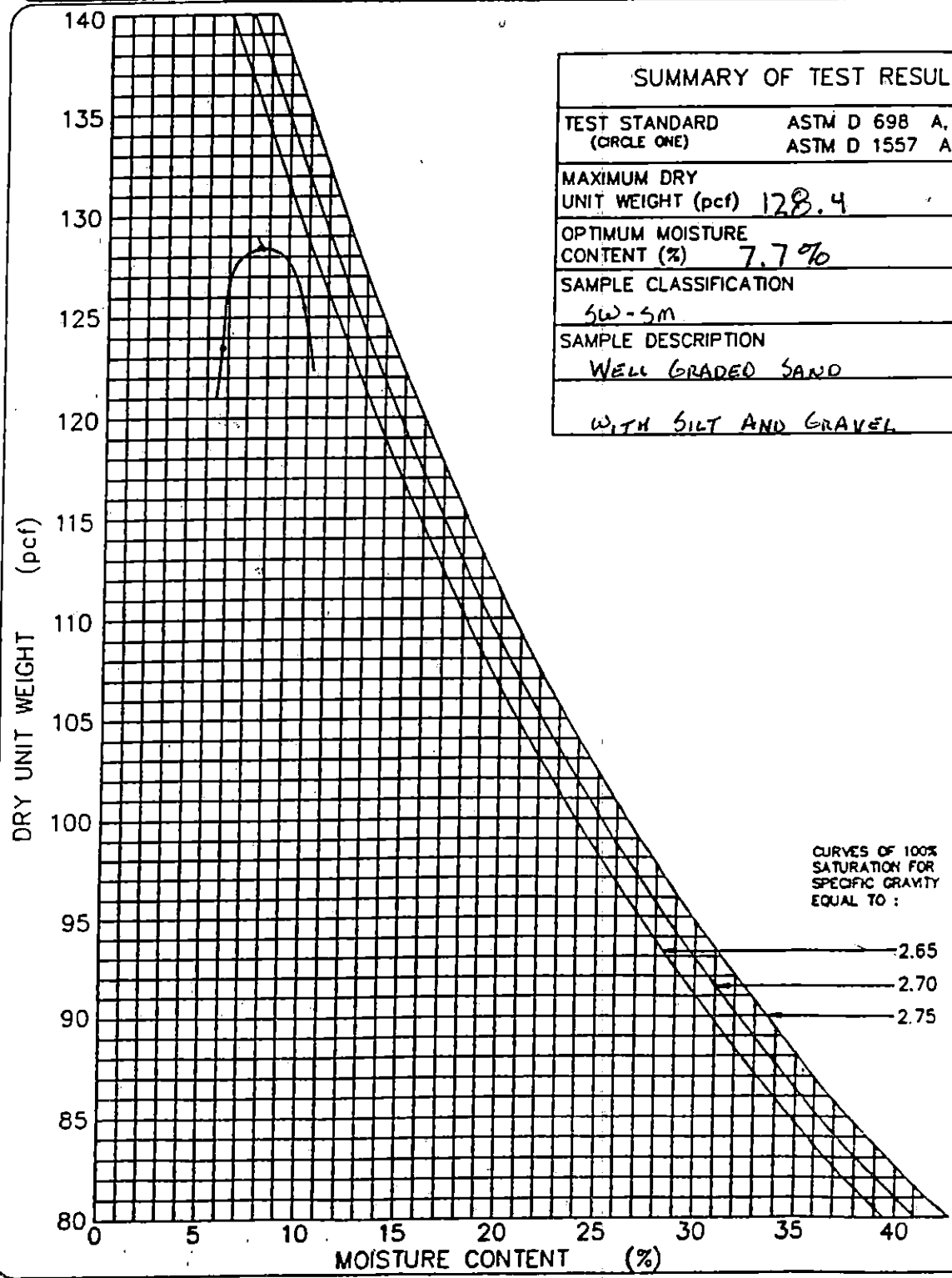
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 16 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-51 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)	128.4
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: 19 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ACT SELECT SAMPLE NO.: S-52 QA ID: D/T

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)	1745.1	1584.3
WT. OF TARE	(grams)	20.4	15.9
WT. OF DRY SAMPLE	(grams)	1724.7	1568.4

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	74.4	4.3	95.7%	
3/8"	9.5	114.3	6.6	93.4%	
4	4.75	265.8	15.4	84.6%	
10	2.0	429.8	24.9	75.1%	
20	0.850	656.9	38.1	61.9%	
40	0.425	1069.3	62.0	38.0%	
60	0.250	1387.1	80.4	19.6%	
100	0.150	1509.1	87.5	12.5%	
200	0.075	1564.3	90.7	9.3%	

%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

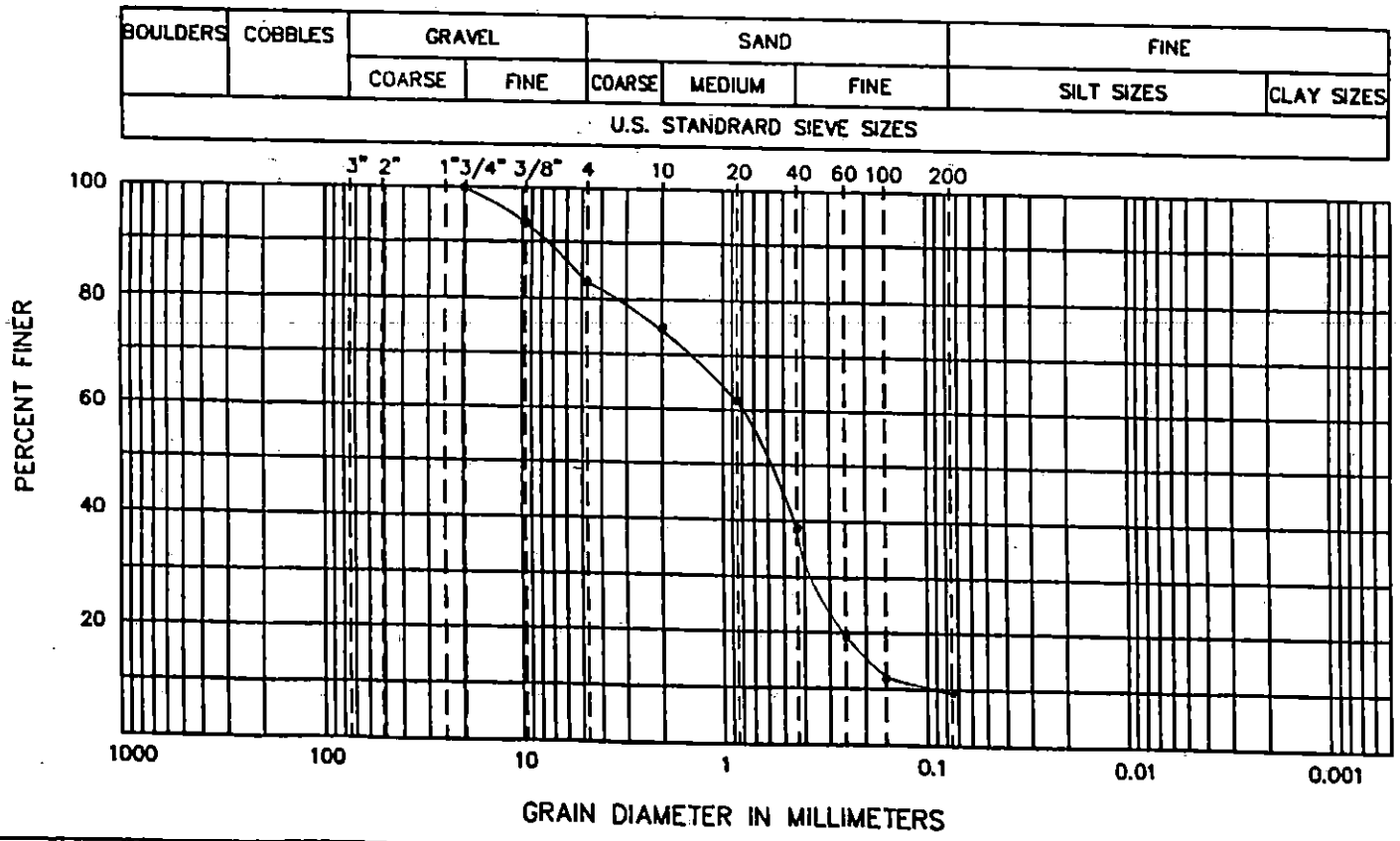
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 19 day 06 month 95 year

SAMPLE NO.: S-52 QA ID: JR



CURVE COEFFICIENTS

(C_u) 8.9

(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.	93.4
NO. 4	89.6
NO. 10	75.1
NO. 20	61.9
NO. 40	38.0
NO. 60	19.6
NO. 100	12.5
NO. 200	9.3

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: 19 day 06 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-52 — QA ID: D/T

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	10504	10465		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4469	4659	4620		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	129.6	135.1	134.0		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	122.8	126.3	122.2		

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		
G	WT. OF WET SOIL & TARE	(grams)	576.0	548.3	578.6		
H	WT. OF DRY SOIL & TARE	(grams)	546.6	512.8	528.2		
I	WT. OF WATER = G - H	(grams)	29.4	35.5	50.4		
J	WT. DRY SOIL = H - F	(grams)	538.6	504.8	520.2		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.5%	7.0	9.7%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

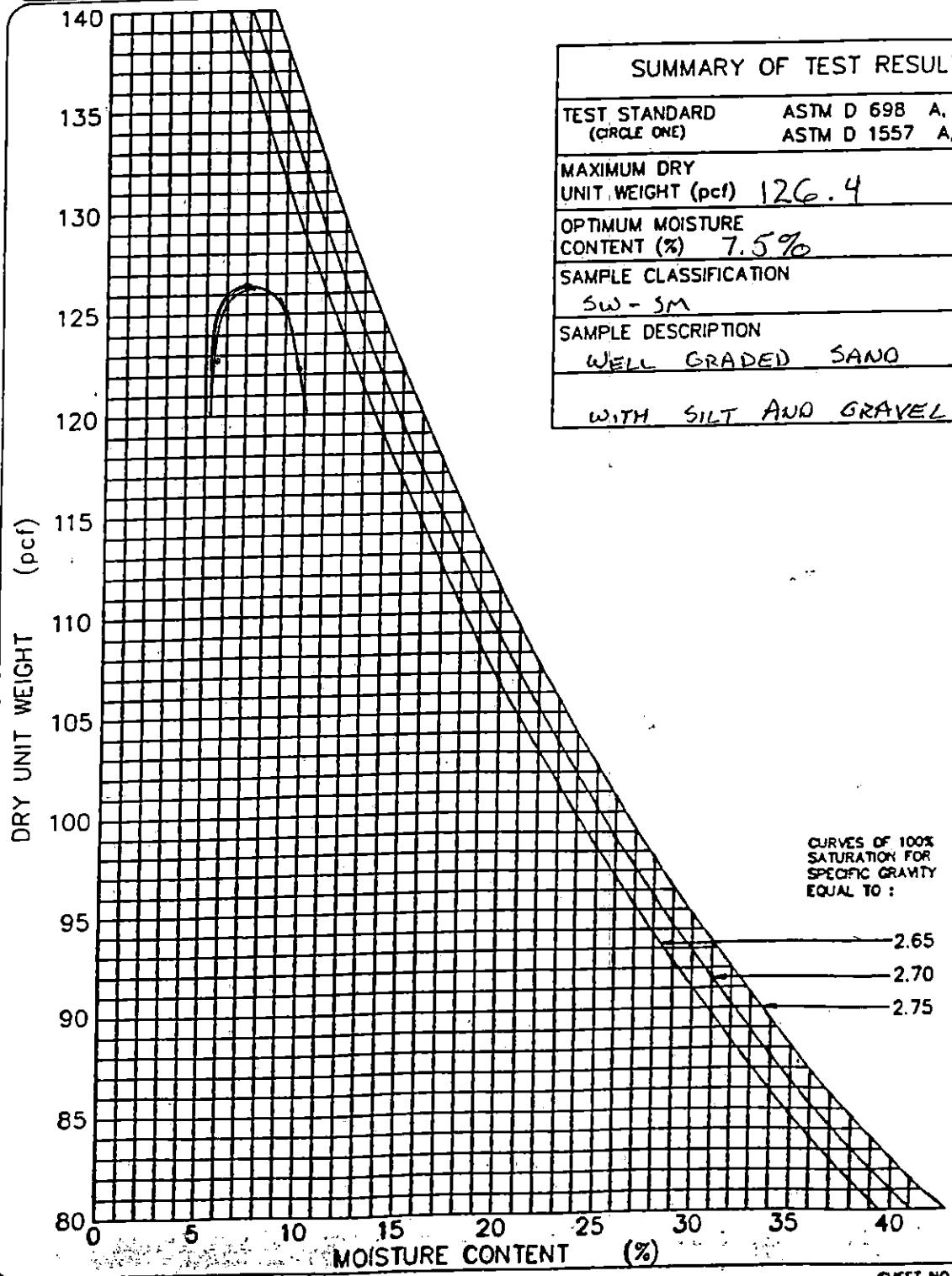
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 19 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-52 QA ID: >/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)	126.4
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: 20 day 06 month 95 year

SOURCE: B. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-53 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)	1699.4	1486.5
WT. OF TARE	(grams)	19.9	15.9
WT. OF DRY SAMPLE	(grams)	1679.1	1470.6

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	43.7	2.6	97.4%	
3/8"	9.5	106.5	6.3	93.7%	
4	4.75	280.7	16.7	83.3%	
10	2.0	449.8	26.8	73.2%	
20	0.850	655.0	39.0	61.0%	
40	0.425	997.8	59.4	40.6%	
60	0.250	1282.6	76.4	23.6%	
100	0.150	1386.4	82.6	17.4%	
200	0.075	1463.8	87.2	12.8%	

%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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

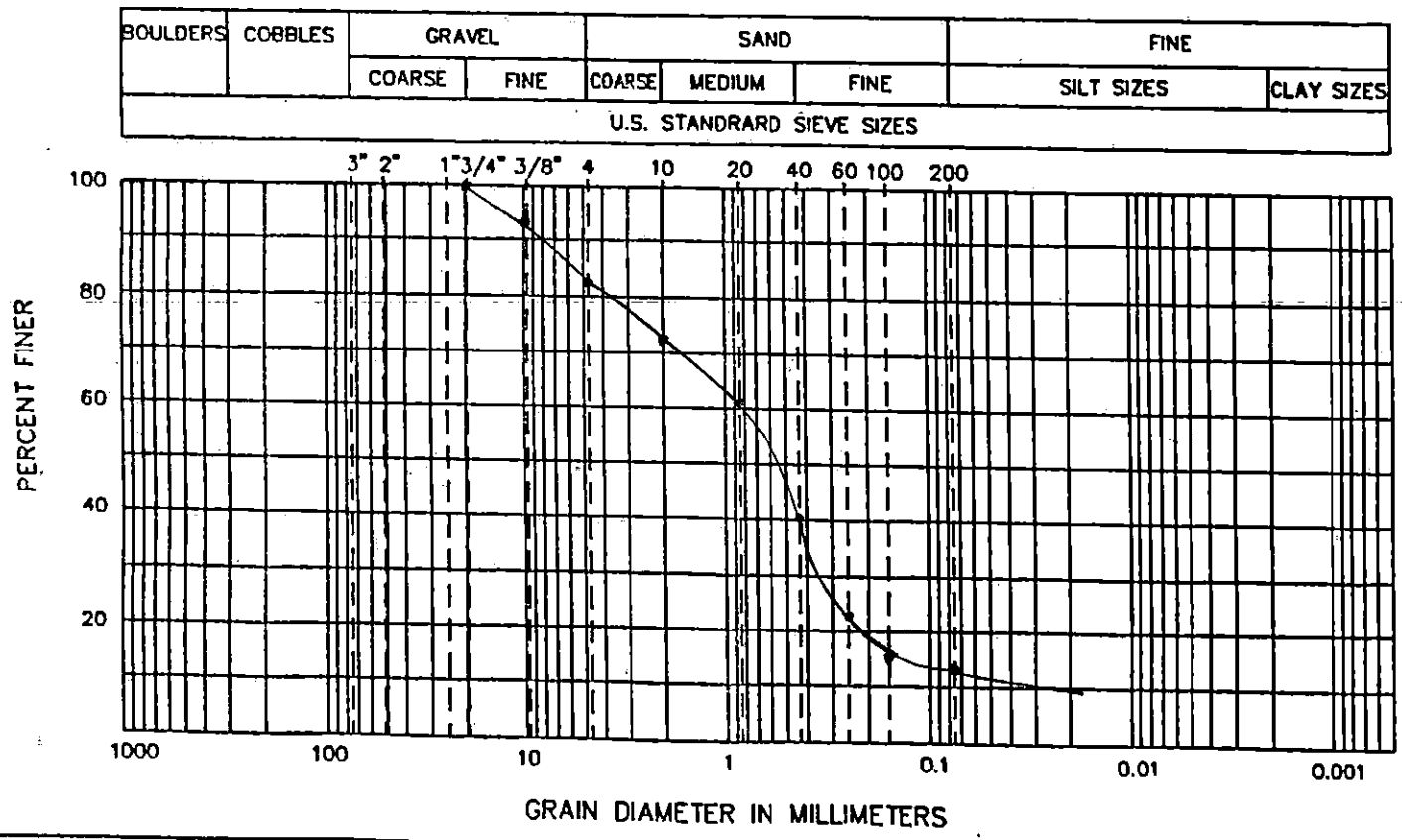
SOURCE: B. SCHLEIDER

MATERIAL TYPE: ALTERNATE SELECT

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 20 day 06 month 95 year

SAMPLE NO.: S-53 QA ID: P/A



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.	93.7
NO. 4	83.3
NO. 10	73.2
NO. 20	61.0
NO. 40	40.6
NO. 60	23.6
NO. 100	17.4
NO. 200	12.8

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: 21 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-55 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)	10430	10708	10635		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4585	4863	4790		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	133.0	141.0	138.9		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	126.4	130.8	127.4		

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)	8.1	8.2	8.2		
G	WT. OF WET SOIL & TARE	(grams)	507.1	566.6	576.3		
H	WT. OF DRY SOIL & TARE	(grams)	482.6	526.3	529.4		
I	WT. OF WATER = G - H	(grams)	24.5	40.3	46.9		
J	WT. DRY SOIL = H - F	(grams)	474.5	518.1	521.2		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.2%	7.8%	9.0%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

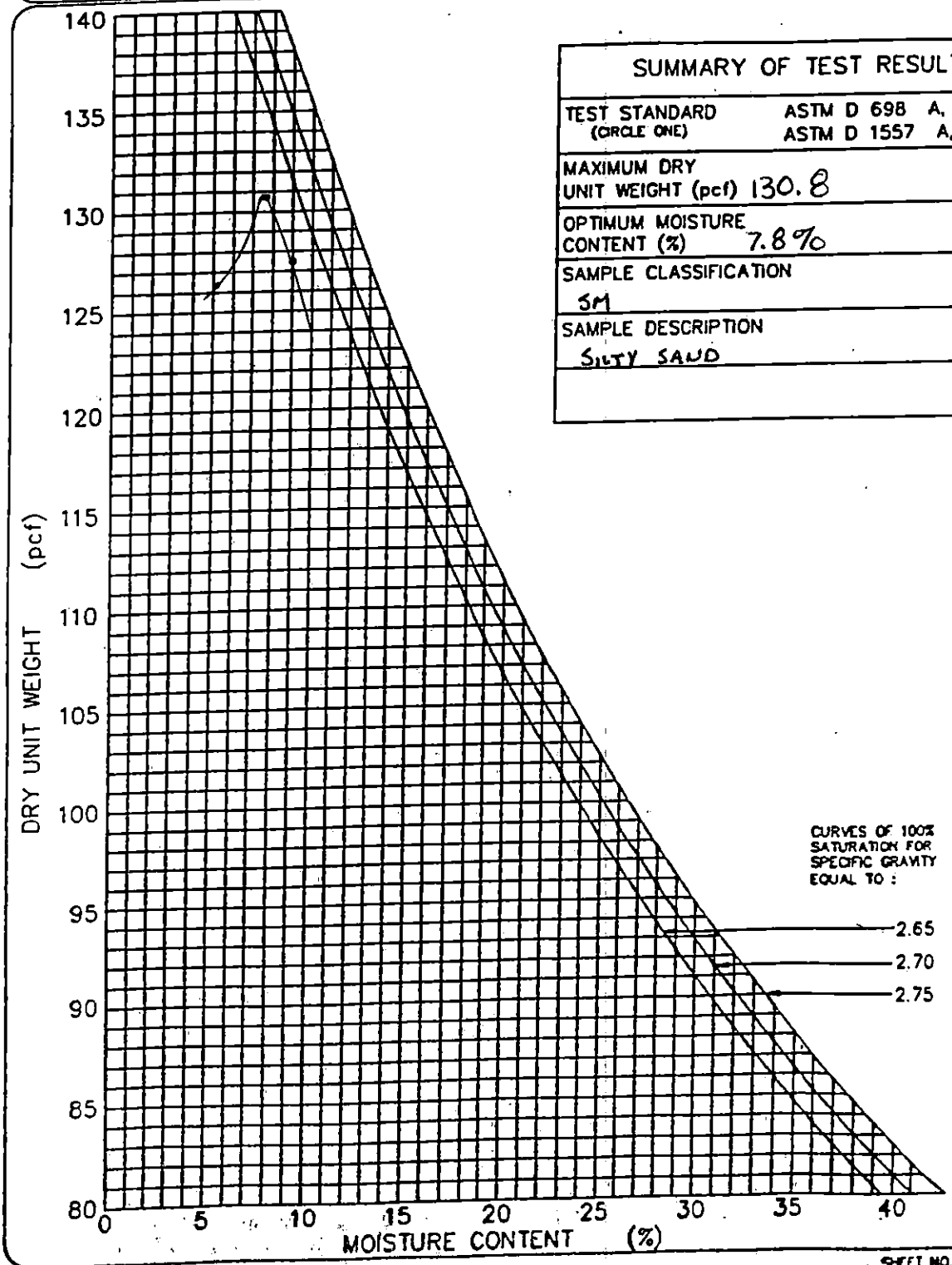
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

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

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-55 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)	130.8
OPTIMUM MOISTURE CONTENT (%)	7.8%
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: G03700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 22 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-56 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)	1984.1	1721.8
WT. OF TARE	(grams)	19.6	16.1
WT. OF DRY SAMPLE	(grams)	1964.5	1705.7

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	28.0	1.4	98.6	
3/8"	9.5	70.8	3.6	96.4	
4	4.75	259.1	13.2	86.8	
10	2.0	482.8	24.6	75.4	
20	0.850	760.9	38.7	61.3	
40	0.425	1191.1	60.6	39.4	
60	0.250	1529.5	77.9	22.1	
100	0.150	1659.4	84.5	15.5	
200	0.075	1703.9	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

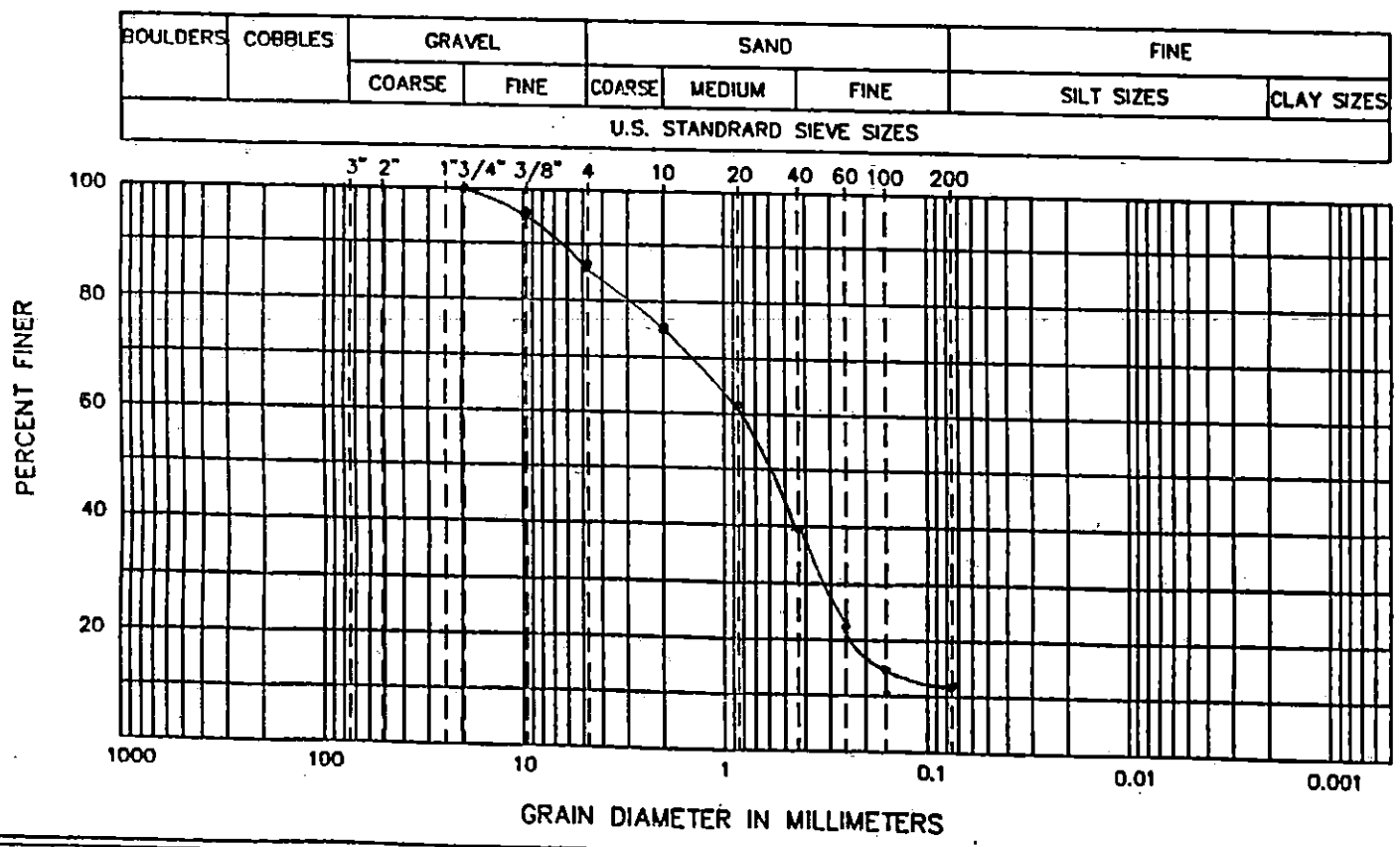
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 22 day 06 month 95 year

SAMPLE NO.: S-56 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.	98.6
3/8-in.	96.4
NO. 4	86.8
NO. 10	75.4
NO. 20	61.3
NO. 40	39.4
NO. 60	22.1
NO. 100	15.5
NO. 200	13.3

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: 22 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-56 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)	10510	10624	10584		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4665	4779	4739		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	135.3	138.6	137.4		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	127.2	128.0	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	8.1		
G	WT. OF WET SOIL & TARE	(grams)	542.2	592.1	566.9		
H	WT. OF DRY SOIL & TARE	(grams)	510.1	547.2	514.6		
I	WT. OF WATER = G - H	(grams)	32.1	44.9	51.3		
J	WT. DRY SOIL = H - F	(grams)	502.2	539.2	506.5		
K	MOISTURE CONTENT = (I/J) X 100	(%)	6.4%	8.3%	10.1%		

GeoSyntec Consultants

TOWN OF HUNTINGTON

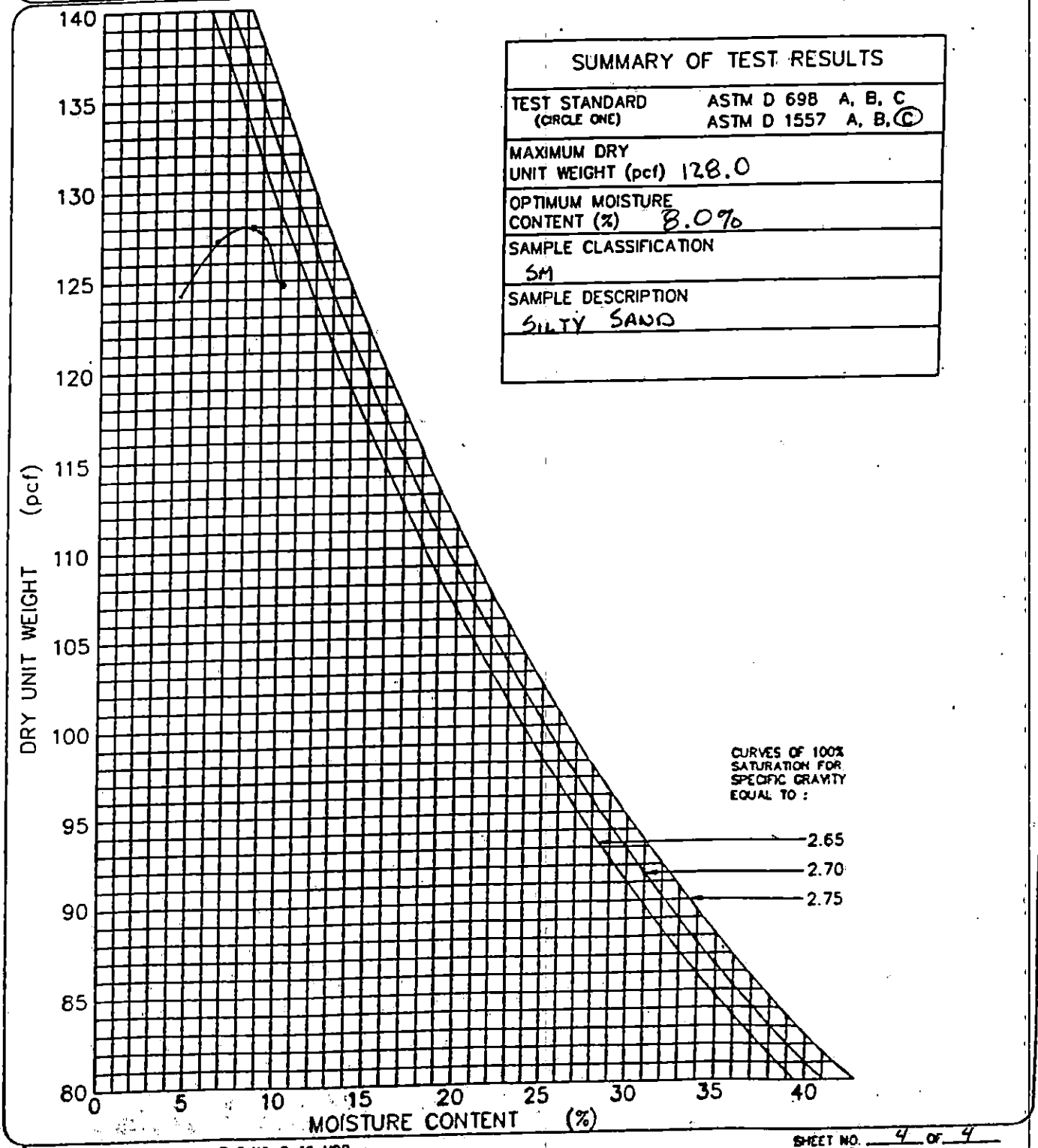
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 22 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-56 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)	128.0
OPTIMUM MOISTURE CONTENT (%)	8.0%
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: 22 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ACT. SELECT SAMPLE NO.: S-57 QA ID: 24R

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)	1770.0	1587.9
WT. OF TARE	(grams)	18.0	15.9
WT. OF DRY SAMPLE	(grams)	1752.0	1572.0

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	26.0	1.5	98.5	
3/8"	9.5	75.5	4.3	95.7	
4	4.75	250.1	14.3	85.7	
10	2.0	412.1	23.5	76.5	
20	0.850	640.2	36.5	63.5	
40	0.425	1064.1	60.7	39.3	
60	0.250	1398.5	79.8	20.2	
100	0.150	1523.7	87.0	13.0	
200	0.075	1569.9	89.6	10.4	

%FINER = 100 - Σ% RETAINED

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GeoSyntec Consultants

TOWN OF HUNTINGTON

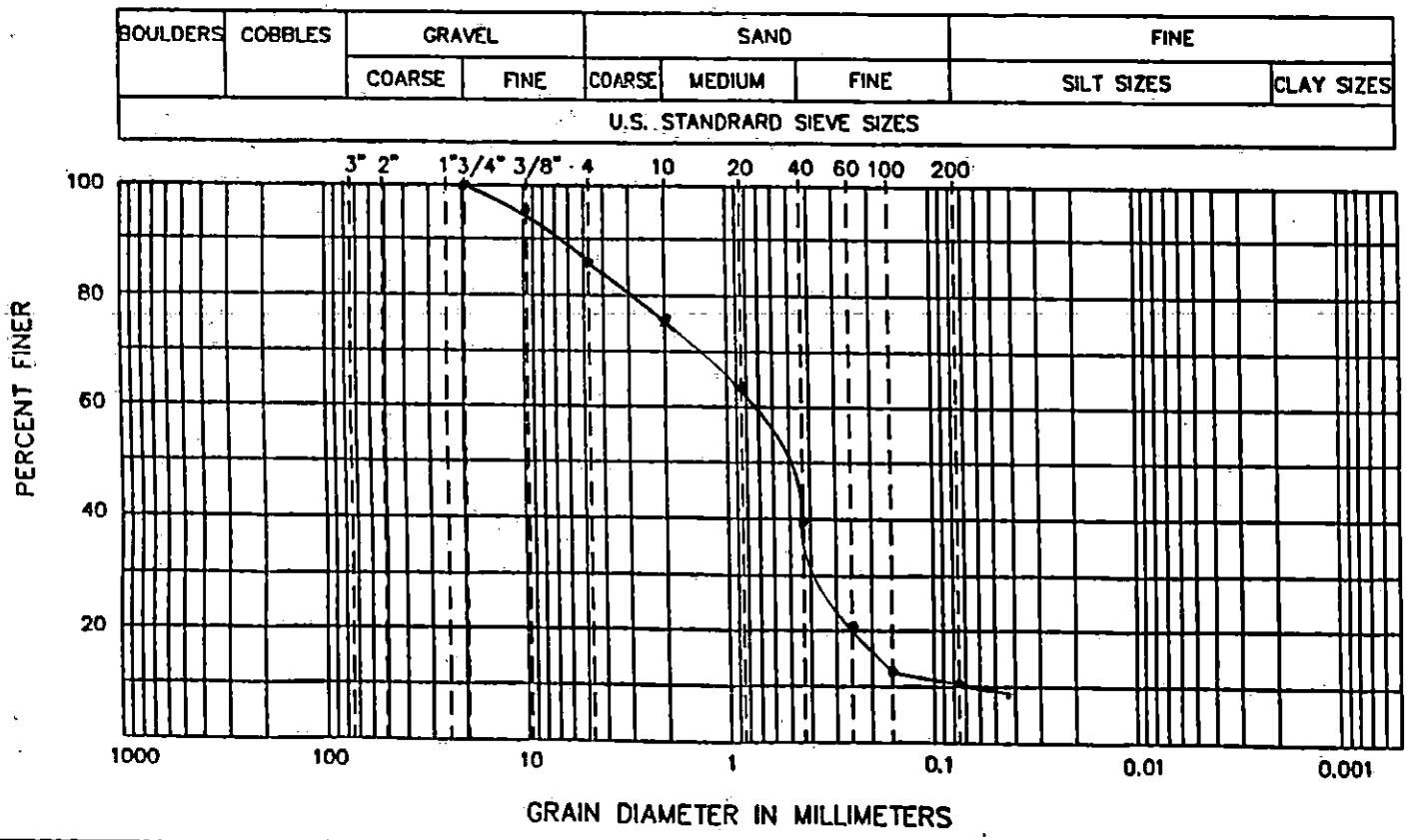
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 22 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-57 QA ID: D/R



CURVE COEFFICIENTS

(C_u) 10.3

(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.	98.5
3/8-in.	95.7
NO. 4	85.7
NO. 10	76.5
NO. 20	63.5
NO. 40	39.3
NO. 60	20.2
NO. 100	13.0
NO. 200	10.4

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: 22 day 06 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-57 — 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)	10502	10654	10617		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4657	4809	4772		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	135.1	139.5	138.4		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	127.7	129.5	126.6		

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	8.1	8.0		
G	WT. OF WET SOIL & TARE	(grams)	577.9	533.5	562.0		
H	WT. OF DRY SOIL & TARE	(grams)	546.6	496.1	514.8		
I	WT. OF WATER = G - H	(grams)	31.3	37.4	47.2		
J	WT. DRY SOIL = H - F	(grams)	538.5	488.0	506.8		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.8%	7.7%	9.3%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

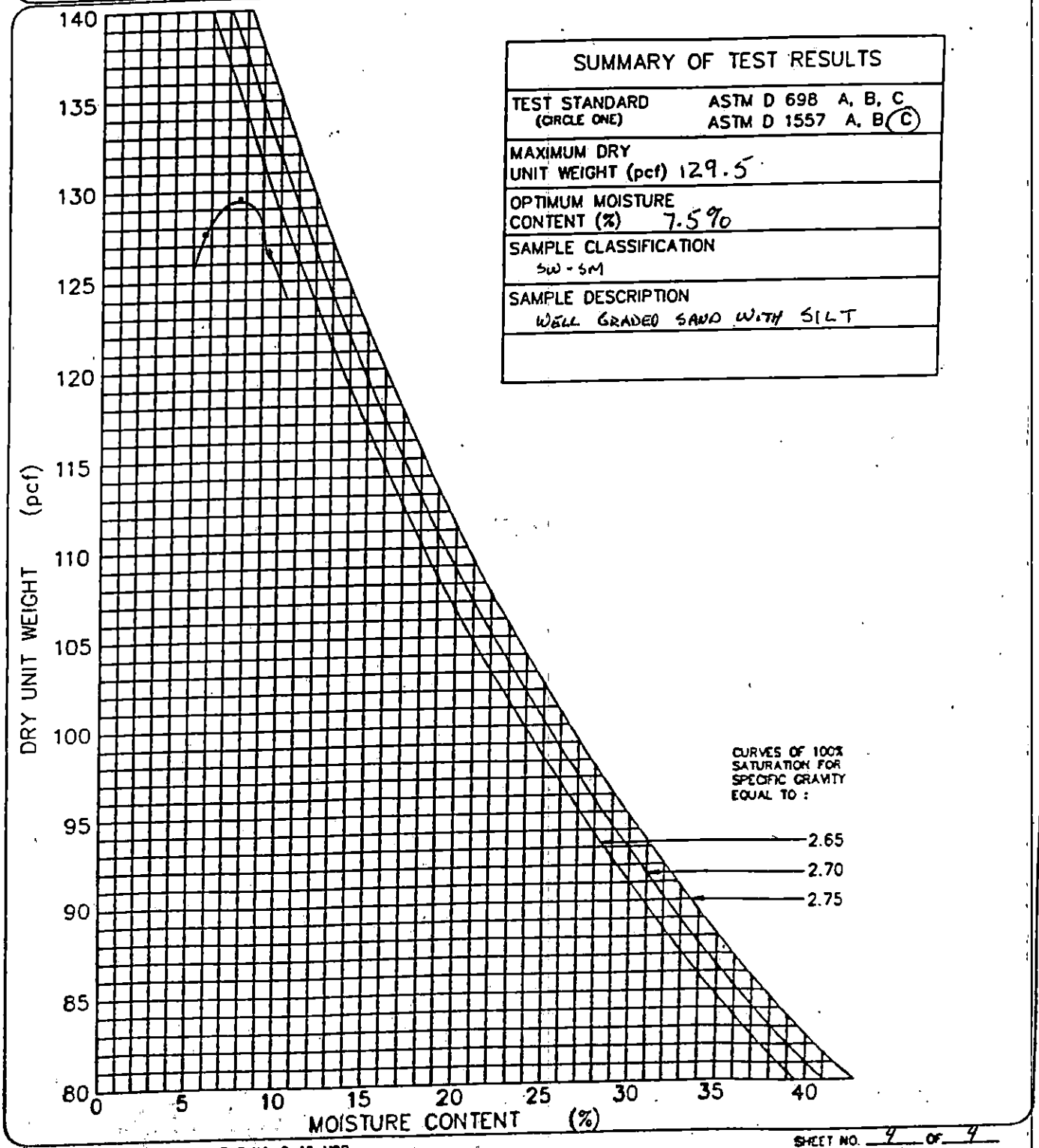
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 22 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-57 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)	129.5
OPTIMUM MOISTURE CONTENT (%)	7.5%
SAMPLE CLASSIFICATION	SW - SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT

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 06 month 95 year

SOURCE: R. SCHNEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-58 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)	1810.8	1541.6
WT. OF TARE	(grams)	17.9	17.8
WT. OF DRY SAMPLE	(grams)	1792.9	1523.8

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	51.6	2.9	97.1	
3/8"	9.5	84.9	4.7	95.3	
4	4.75	220.6	12.3	87.7	
10	2.0	372.5	20.8	79.2	
20	0.850	585.6	32.7	67.3	
40	0.425	976.3	54.5	45.5	
60	0.250	1321.3	73.7	26.3	
100	0.125	1460.2	81.4	18.6	
200	0.075	1521.4	84.9	15.1	

%FINER = 100 − Σ % RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

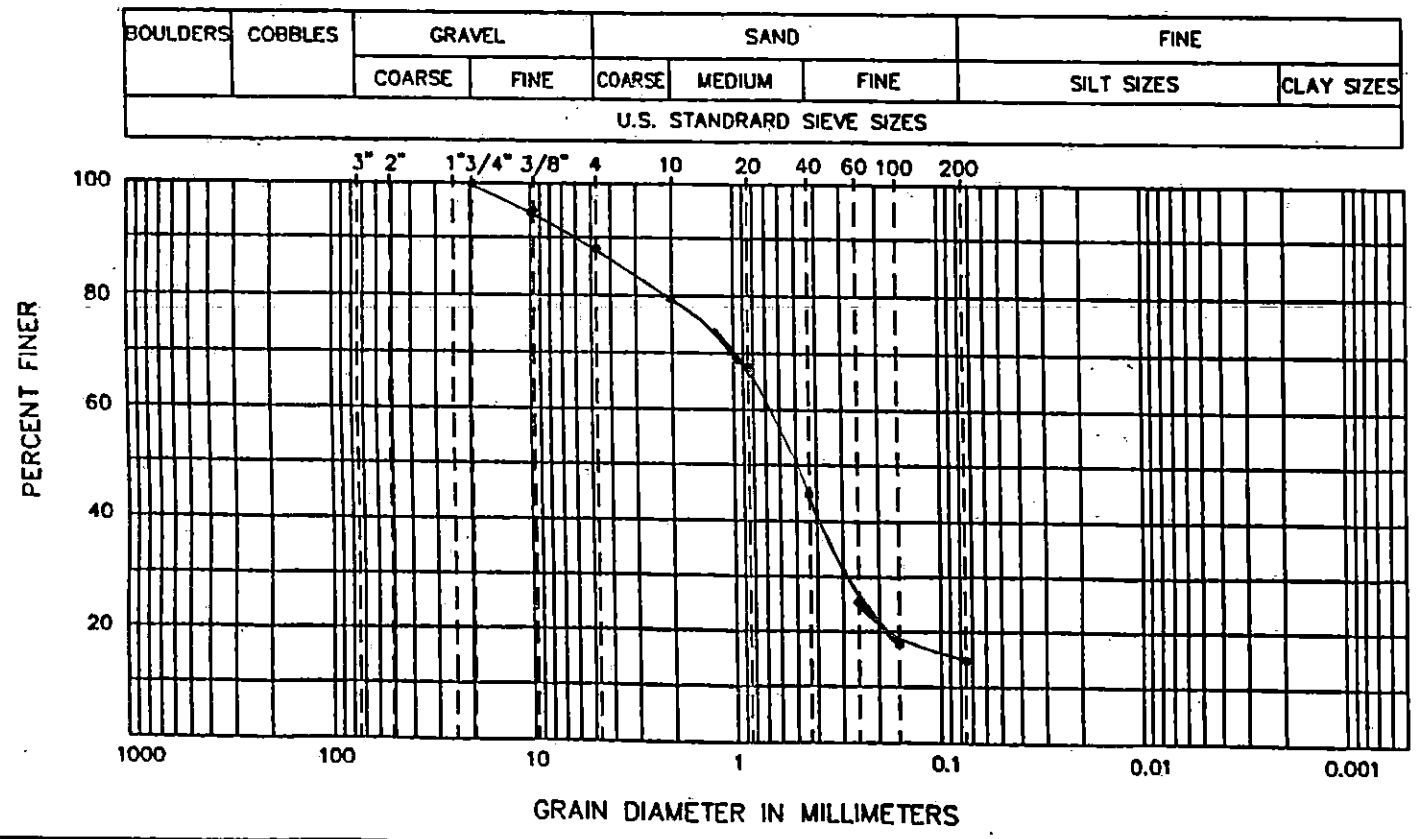
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 23 day 06 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-58 — 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.	95.3
NO. 4	87.7
NO. 10	79.2
NO. 20	67.3
NO. 40	45.5
NO. 60	26.3
NO. 100	18.6
NO. 200	15.1

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: 23 day 06 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-58 — 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)	10442	10581	10575		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4597	4736	4730		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	133.3	137.3	137.2		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	126.0	126.9	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	8.2	8.2		
G	WT. OF WET SOIL & TARE	(grams)	498.5	472.7	533.0		
H	WT. OF DRY SOIL & TARE	(grams)	471.4	437.6	487.6		
I	WT. OF WATER = G - H	(grams)	27.1	35.1	45.4		
J	WT. DRY SOIL = H - F	(grams)	463.5	429.4	479.4		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.8%	8.2%	9.5%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

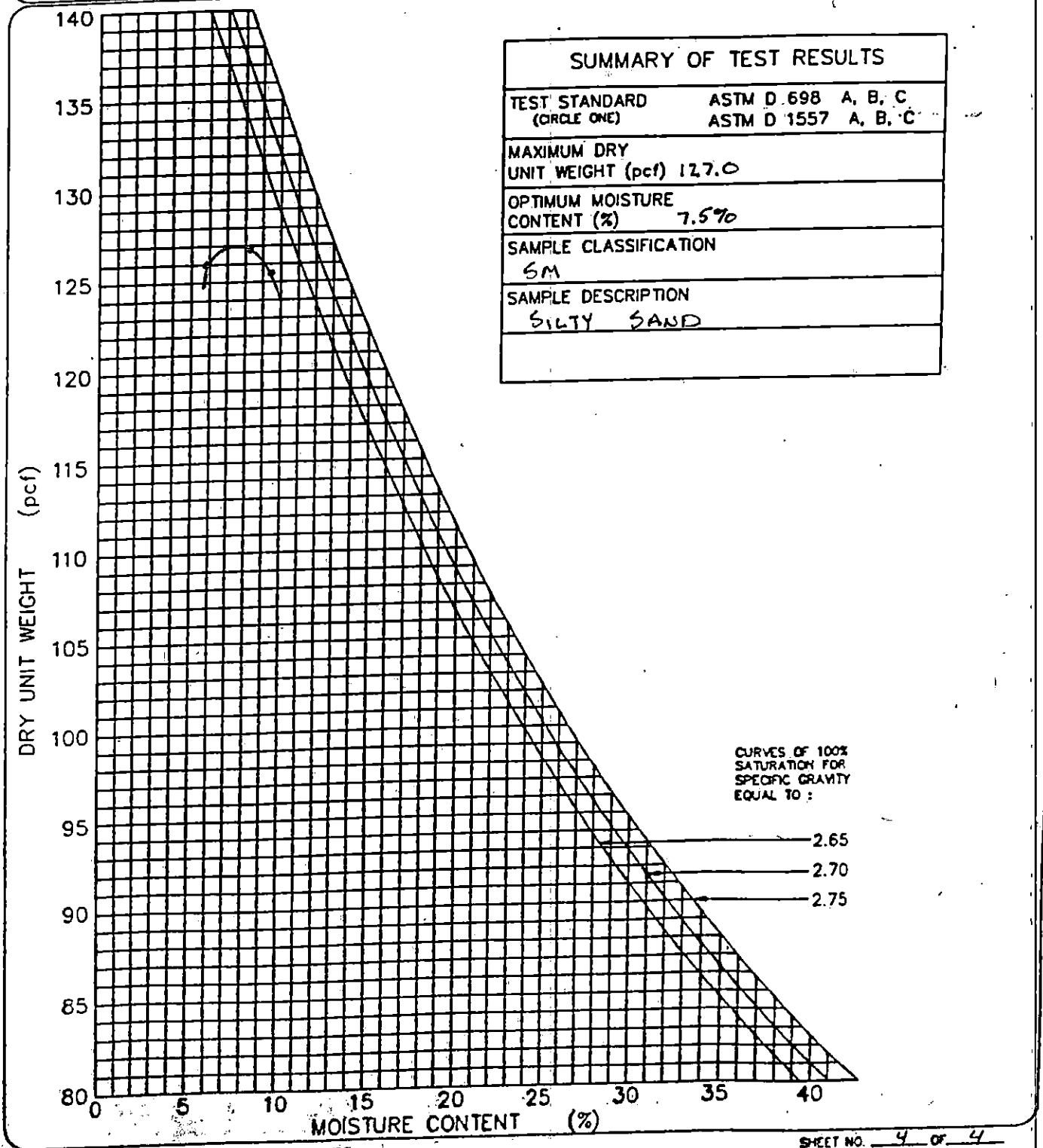
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 23 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-58 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)	127.0
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: G03700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 26 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-59 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)	1833.9	1619.7
WT. OF TARE	(grams)	19.5	16.1
WT. OF DRY SAMPLE	(grams)	1814.4	1603.6

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	39.6	2.2	97.8	
3/8"	9.5	85.2	4.7	95.3	
4	4.75	249.4	13.7	86.3	
10	2.0	419.1	23.1	76.9	
20	0.850	655.7	36.1	63.9	
40	0.425	1070.6	59.0	41.0	
60	0.250	1407.9	77.6	22.4	
100	0.150	1543.0	85.0	15.0	
200	0.075	1599.9	88.2	11.8	

%FINER = 100 − Σ% RETAINED

©GEO SYNTEC CONSULTANTS FILE NO. 2-14-PMS

GeoSyntec Consultants

TOWN OF HUNTINGTON

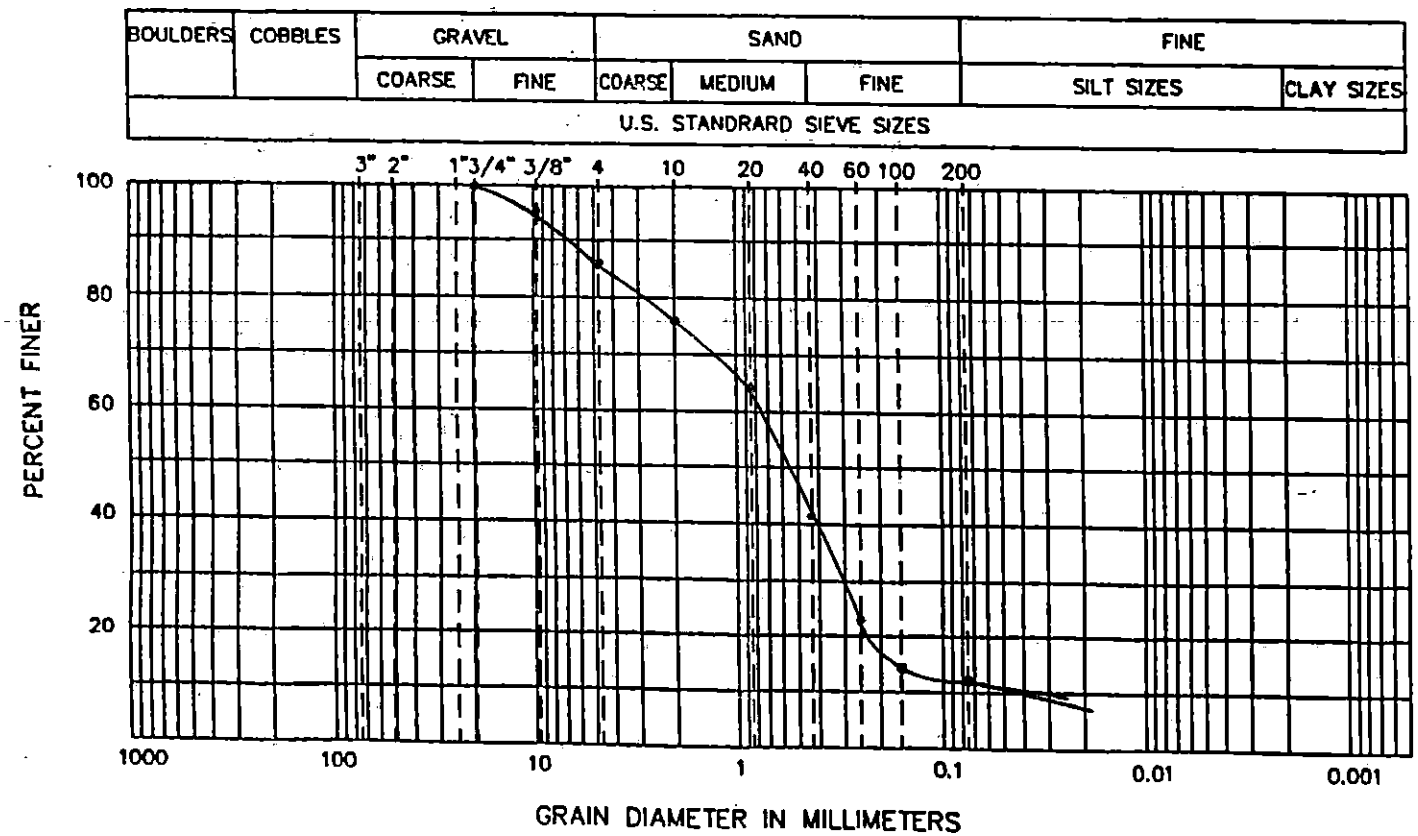
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 26 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-59 QA ID: DJR



CURVE COEFFICIENTS

(C_u) 19.5

(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.	97.8
3/8-in.	95.3
NO. 4	86.3
NO. 10	76.9
NO. 20	63.9
NO. 40	41.0
NO. 60	22.4
NO. 100	15.0
NO. 200	11.8

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: 26 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-59 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)	10429	10598	10524		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4584	4753	4679		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	132.9	137.8	136.0		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	125.5	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)	7.9	8.0	8.2		
G	WT. OF WET SOIL & TARE	(grams)	480.8	546.0	562.5		
H	WT. OF DRY SOIL & TARE	(grams)	454.4	505.5	515.9		
I	WT. OF WATER = G - H	(grams)	26.4	40.5	46.6		
J	WT. DRY SOIL = H - F	(grams)	446.5	497.5	507.7		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.9 %	8.1 %	9.2 %		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

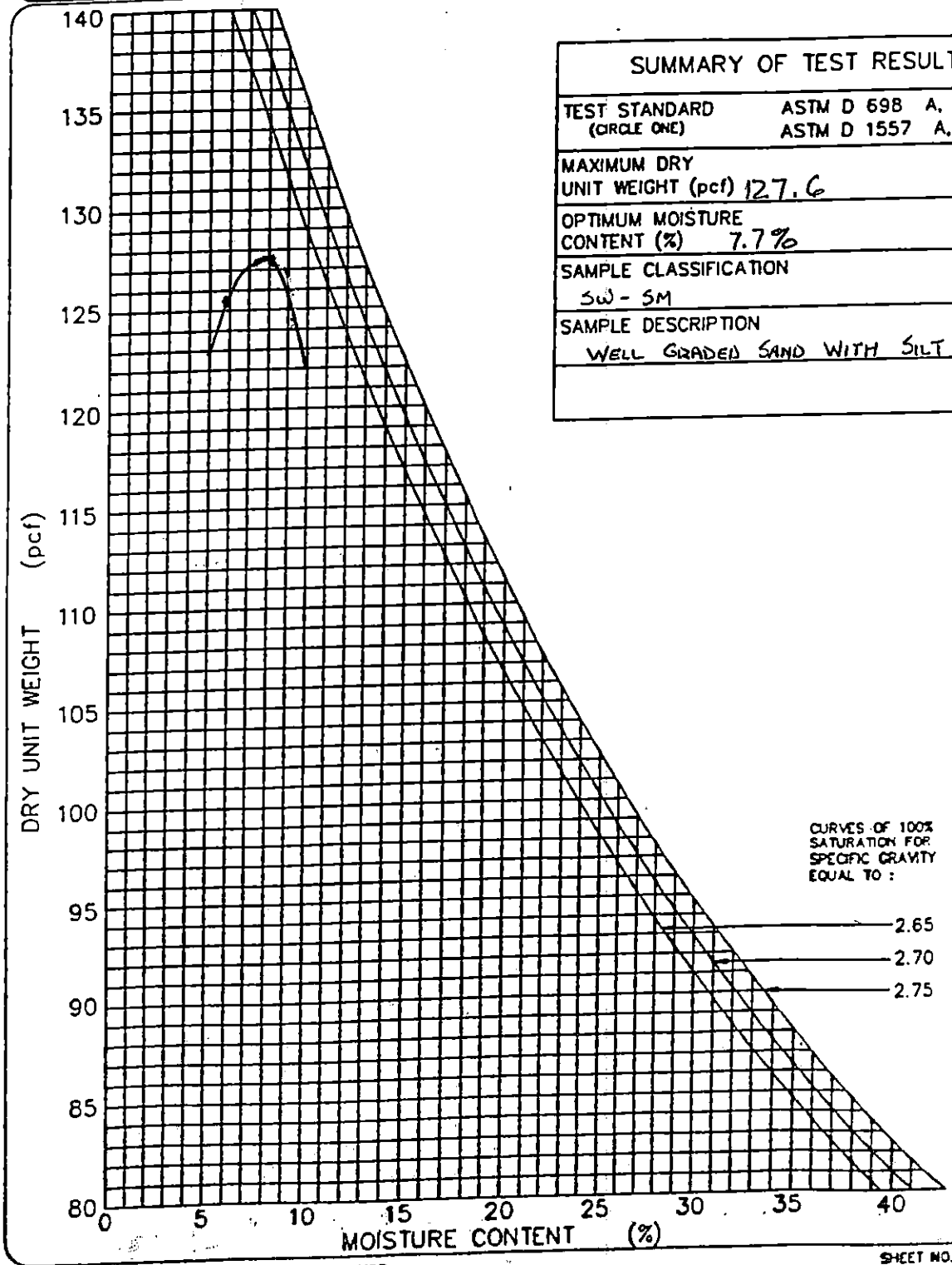
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 26 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-59 QA ID: P/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)	127.6
OPTIMUM MOISTURE CONTENT (%)	7.7%
SAMPLE CLASSIFICATION	SW - SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT



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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: 27 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-60 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)	1816.8	1625.2
WT. OF TARE	(grams)	19.3	15.9
WT. OF DRY SAMPLE	(grams)	1797.5	1609.3

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	76.4	4.3	95.7	
3/8"	9.5	131.9	7.3	92.7	
4	4.75	342.2	19.0	81.0	
10	2.0	541.0	30.1	69.9	
20	0.850	763.9	42.5	57.5	
40	0.425	1147.1	63.8	36.2	
60	0.250	1442.1	80.2	19.8	
100	0.150	1560.8	86.8	13.2	
200	0.075	1606.7	89.4	10.6	

%FINER = 100 - Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

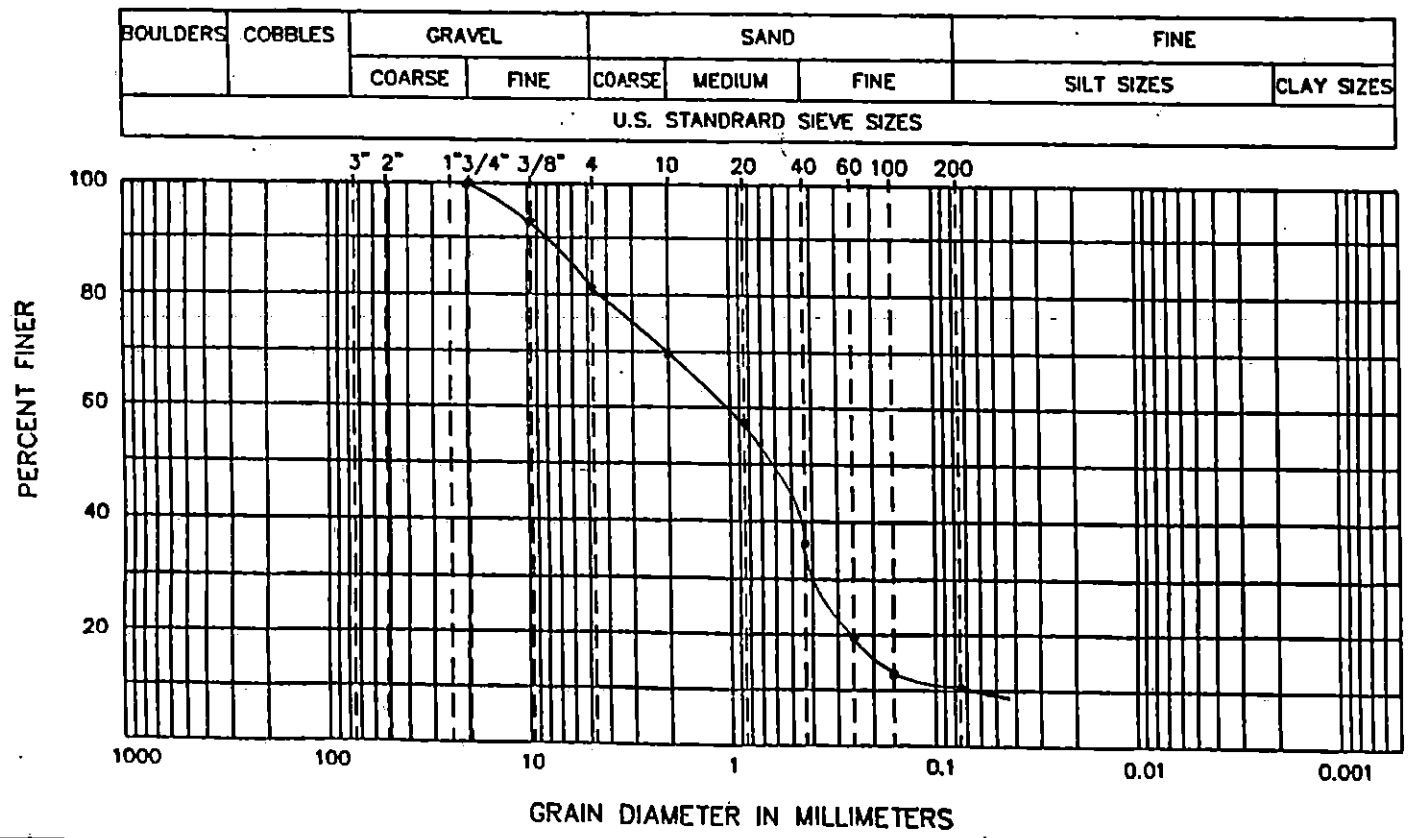
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

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

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 27 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-60 QA ID: DJR



CURVE COEFFICIENTS

(C_u) 14.3

(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.	95.7
3/8-in.	92.7
NO. 4	81.0
NO. 10	69.9
NO. 20	57.5
NO. 40	36.2
NO. 60	19.8
NO. 100	13.2
NO. 200	10.6

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

©GEO SYNTEC CONSULTANTS FILE NO. 2-18-PSD

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 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-60 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)	10431	10609	10641		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4586	4764	4796		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	133.0	138.2	139.1		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	125.8	128.8	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	8.2	8.1		
G	WT. OF WET SOIL & TARE	(grams)	540.4	546.9	515.1		
H	WT. OF DRY SOIL & TARE	(grams)	511.8	510.1	469.2		
I	WT. OF WATER = G - H	(grams)	28.6	36.8	45.9		
J	WT. DRY SOIL = H - F	(grams)	503.7	501.9	461.1		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.7%	7.3%	10.0%		