

## **APPENDIX 3**

# **SOUTH BORROW PIT SOIL TESTING RESULTS**

# PROCTOR TEST REPORT

TO City of Winnipeg  
110 - 1199 Pacific Ave.  
Winnipeg, MB  
R3E 3S8

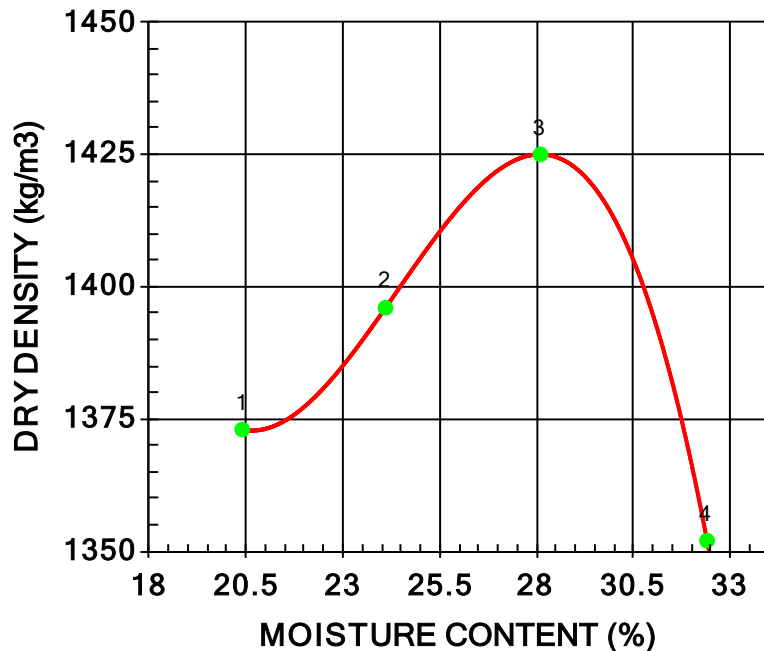
CLIENT City of Winnipeg  
C.C. City of Winnipeg Water & Waste

ATTN: Ash Raichura

PROJECT Cell 34 - 1777 Brady Road

PROJECT NO. 123316217  
PROCTOR NO. 8 DATE SAMPLED 2023.Aug.16 DATE RECEIVED 2023.Aug.16 DATE TESTED 2023.Aug.18

INSITU MOISTURE	37.8 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Madison Murphy		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade		
SIZE	Clay	RAMMER TYPE	Manual
DESCRIPTION		PREPARATION	Moist
SUPPLIER	Existing Materials	OVERSIZE CORRECTION METHOD	None
SOURCE	Site - South Borrow Pit	RETAINED 4.75mm SCREEN	N/A %



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1653	1373	20.4
2	1732	1396	24.1
3	1825	1425	28.1
4	1790	1352	32.4

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1420	28.0
OVERSIZE CORRECTED		

## COMMENTS

Stantec Sample No. 2590. The material tested was obtained by the client from Cell 34.



**Stantec Consulting Ltd.**  
199 Henlow Bay, Winnipeg, MB R3Y 1G4  
Tel: (204) 488-6999



## AASHTO T88 (ASTM D422) - PARTICLE-SIZE ANALYSIS OF SOILS

TO City of Winnipeg, Water and Waste  
110 - 1199 Pacific Avenue  
Winnipeg, Manitoba  
R3E 3S8

PROJECT BRRMF Cell 34

PROJECT NO. 123316217

ATTN: Ash Raichura

REPORT NO. 8

DATE SAMPLED: 2023.Aug.10

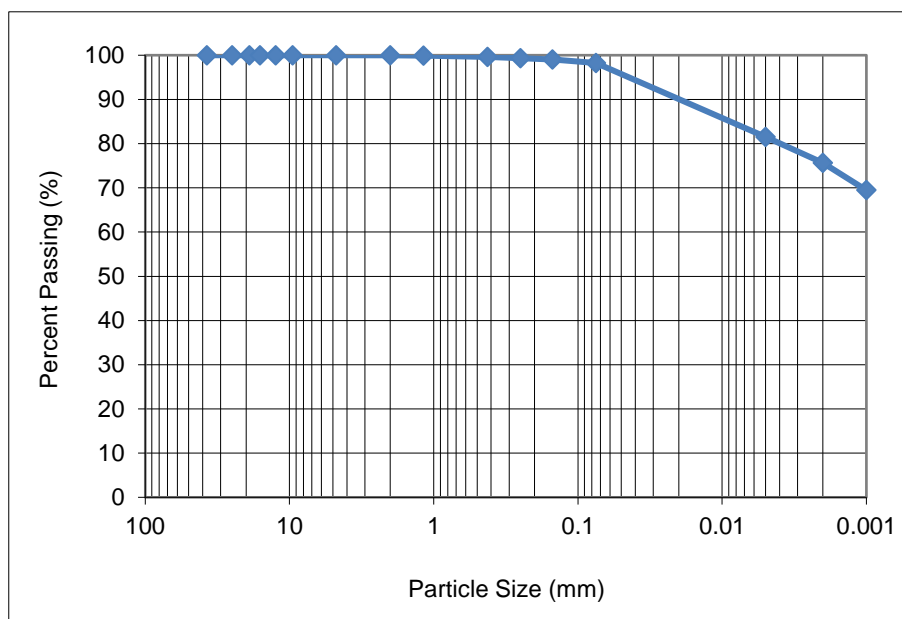
DATE RECEIVED: 2023.Aug.10

DATE TESTED: 2023.Aug.16

SAMPLED BY: City of Winnipeg

SUBMITTED BY: City of Winnipeg

TESTED BY: Kevin Hiraoka




SIEVE SIZE (mm)	% PASSING
37.5	100.0
25.0	100.0
19.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.00	100.0
1.18	99.9
0.425	99.6
0.250	99.3
0.150	99.1
0.075	98.3
0.005	81.5
0.002	75.7
0.001	69.5

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.0	0.4	1.3	22.6	75.7	69.5

### COMMENTS:

Material tested was identified as Cell 34, South Borrow Pit.

REPORT DATE 2023.Aug.18

REVIEWED BY   
Guillaume Beauce, P. Eng.  
Associate - Materials Testing Services

Reporting of these test results constitutes a testing service only. Engineering interpretation or evaluation of the test results is provided on written request. The data presented is for sole use of client stipulated above. Stantec is not responsible, nor can be held liable, for the use of this report by any other party, with or without the knowledge of Stantec.

# ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD A - MULTIPOINT)

TO City of Winnipeg, Water and Waste  
110 - 1199 Pacific Avenue  
Winnipeg, Manitoba  
R3E 3S8

PROJECT BRRMF Cell 34

PROJECT NO. 123316217

ATTN: Ash Raichura

REPORT NO. 8

DATE SAMPLED: 2023.Aug.10

DATE RECEIVED: 2023.Aug.10

DATE TESTED: 2023.Aug.14

SAMPLED BY: City of Winnipeg

SUBMITTED BY: City of Winnipeg

TESTED BY: Madison Murphy

SAMPLE ID: Cell 34, South Borrow Pit

## LIQUID LIMIT

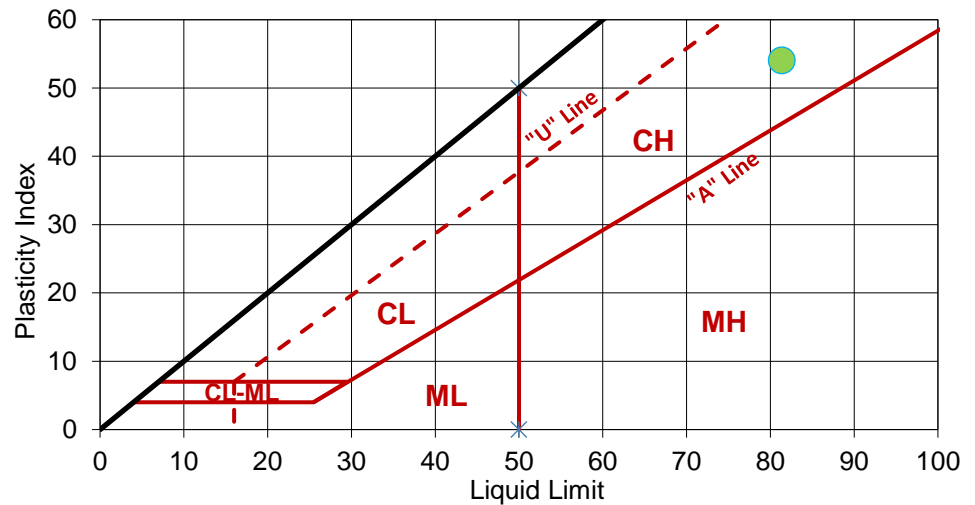
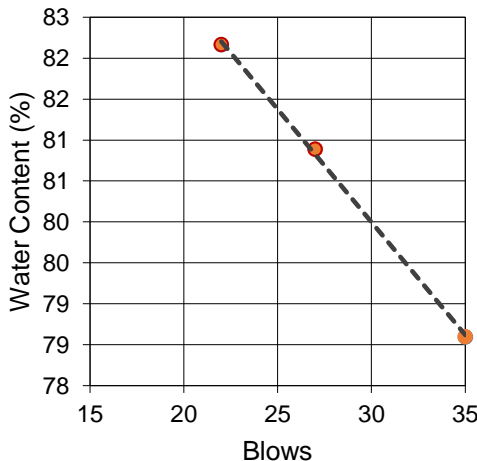
TRIAL	1	2	3
BLOWS	35	27	22
MC (%)	79	81	82

## PLASTIC LIMIT

TRIAL	1	2
MC (%)	27	28

LIQUID LIMIT, LL 81  
PLASTIC LIMIT, PL 27  
PLASTICITY INDEX, PI 54  
AS REC'D MC (%) 27.5

81
27
54
27.5



## COMMENTS:

No comments.

REPORT DATE 2023.Aug.18

REVIEWED BY Guillaume Beauce, P.Eng.  
Associate - Materials Testing Services