Template Version: C420120419R1 - RW

# APPENDIX 'A' GEOTECHNICAL REPORT

11

Template Version: C420120419R1 - RW

### **APPENDIX 'A' - GEOTECHNICAL REPORT**

#### **TABLE OF CONTENTS**

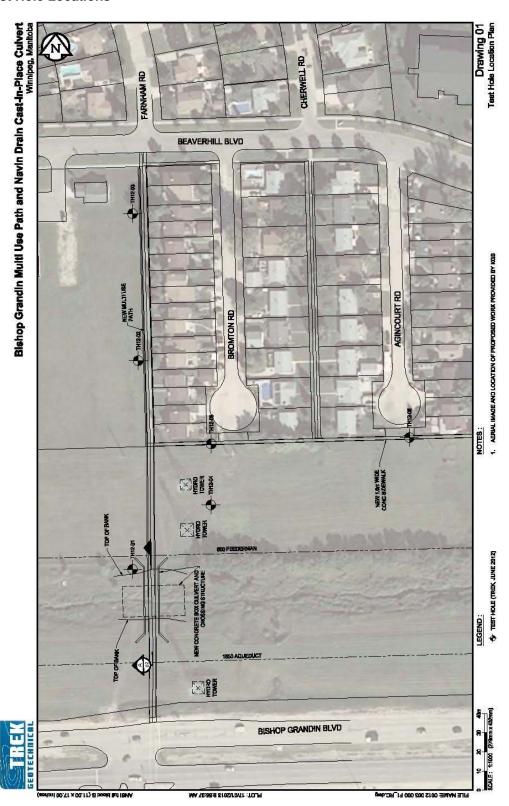
Particle Size Analysis for TH12-06

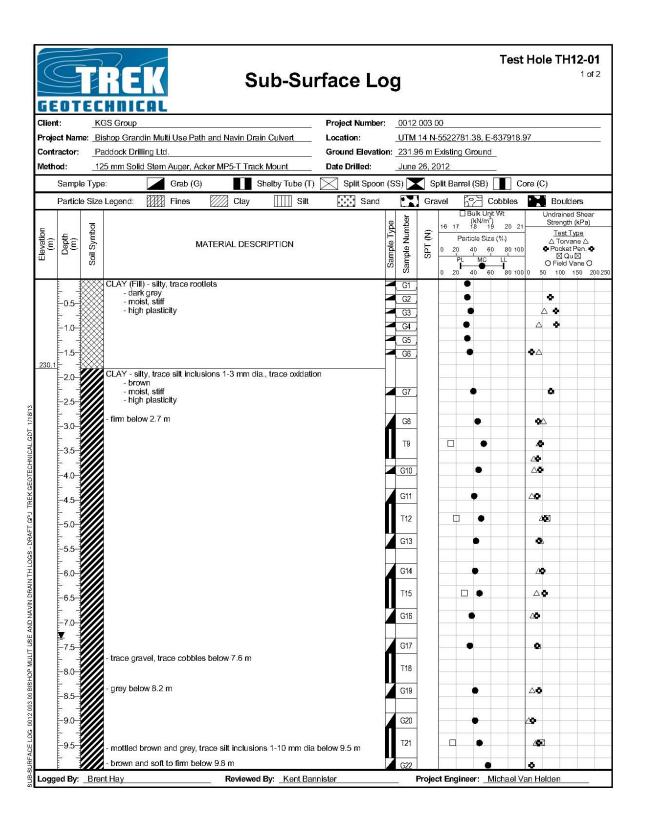
GEOTECHNICAL REPORT FOR BISHOP GRANDIN BLVD/SHOREHILL DR TO BEAV	ERHILL BLVD:
MULTI-USE PATH AND NAVIN DRAIN CAST-IN-PLACE CULVERT	1
Test Hole Locations	1
Test Hole Log for TH12-01	2
Test Hole Log for TH12-02	4
Test Hole Log for TH12-03	5
Test Hole Log for TH12-04	6
Test Hole Log for TH12-05	7
Test Hole Log for TH12-06	8
Particle Size Analysis for TH12-04	9
Particle Size Analysis for TH12-05	10

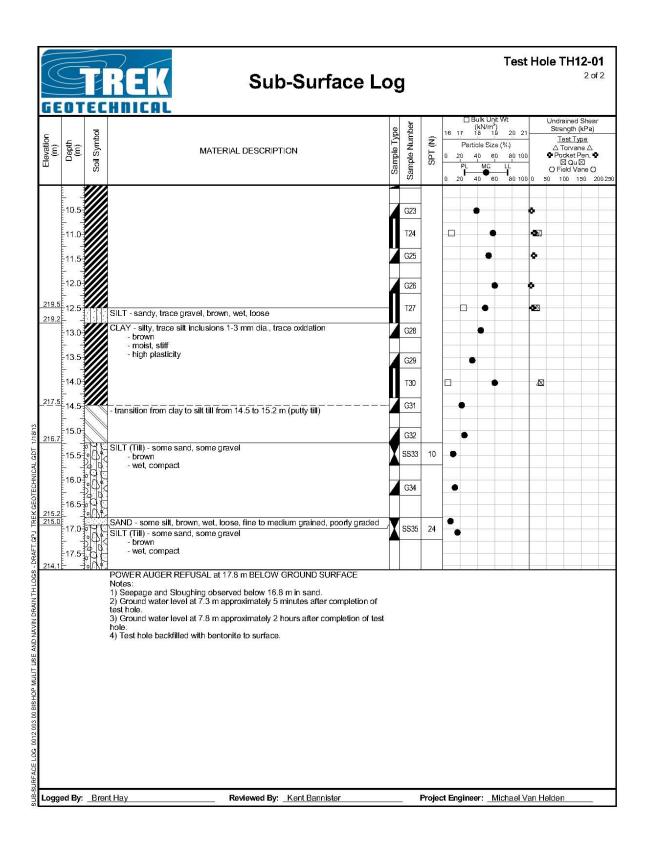
The geotechnical report is provided to aid in the Contractor's evaluation of the existing pavement soil conditions. The information presented is considered accurate at the locations shown on the Drawings and at the time of drilling. However, variations in pavement soil conditions may exist between test holes and fluctuations in groundwater levels can be expected seasonally and may occur as a result of construction activities. The nature and extent of variations may not become evident until construction commences.

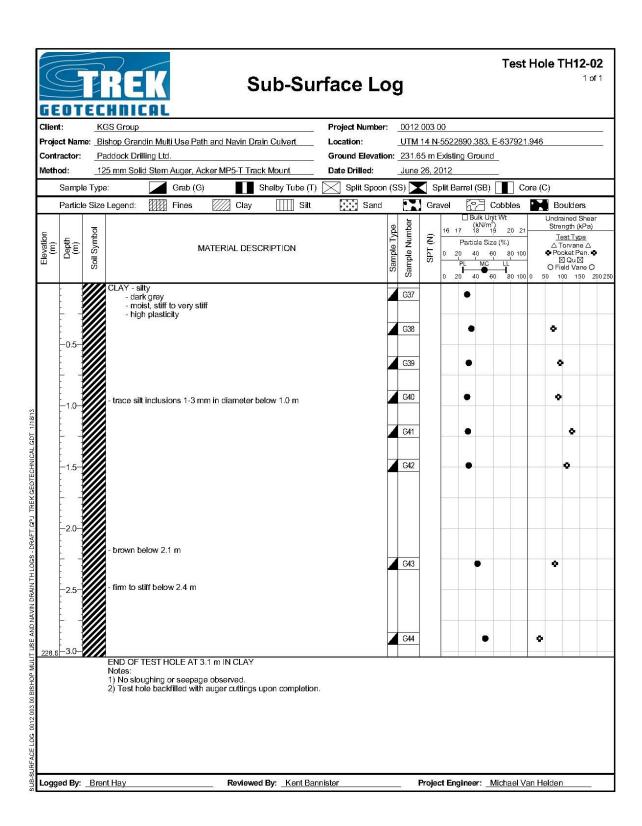
# Geotechnical Report for Bishop Grandin Blvd/Shorehill Dr to Beaverhill Blvd: Multi-Use Path and Navin Drain Cast-In-Place Culvert

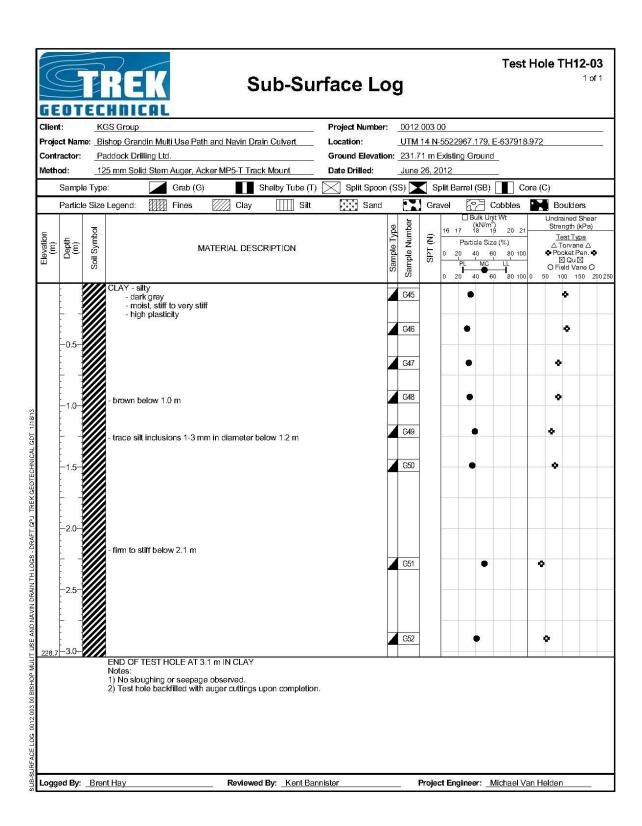
#### **Test Hole Locations**

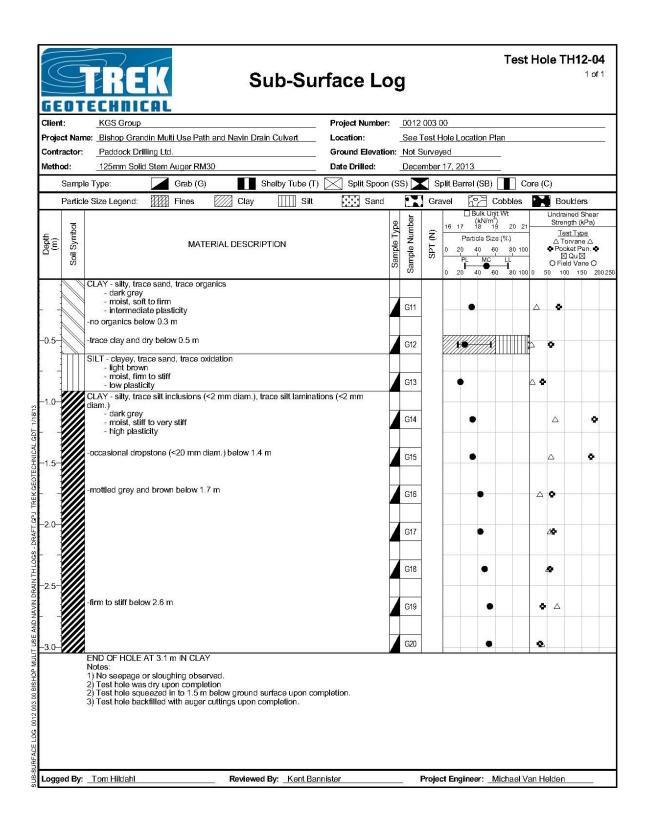


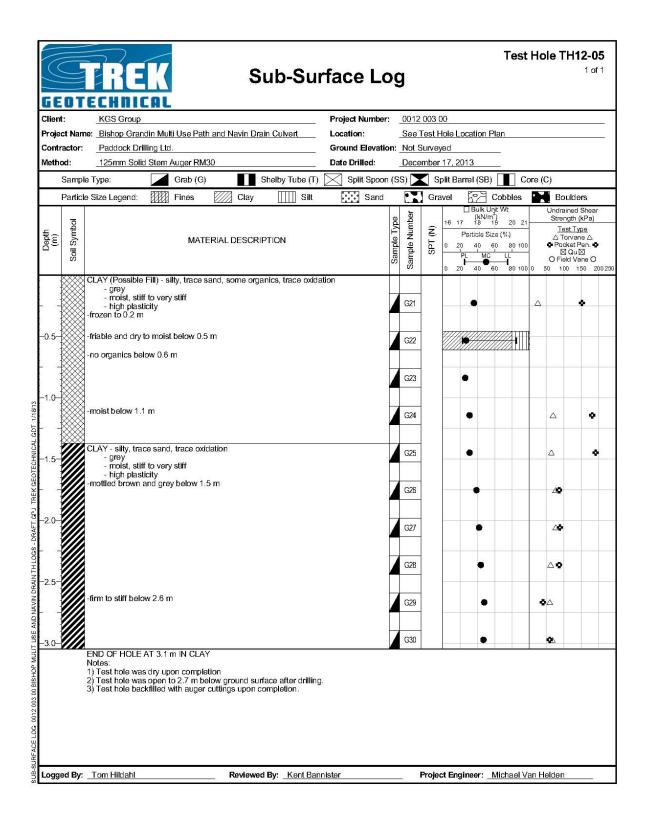


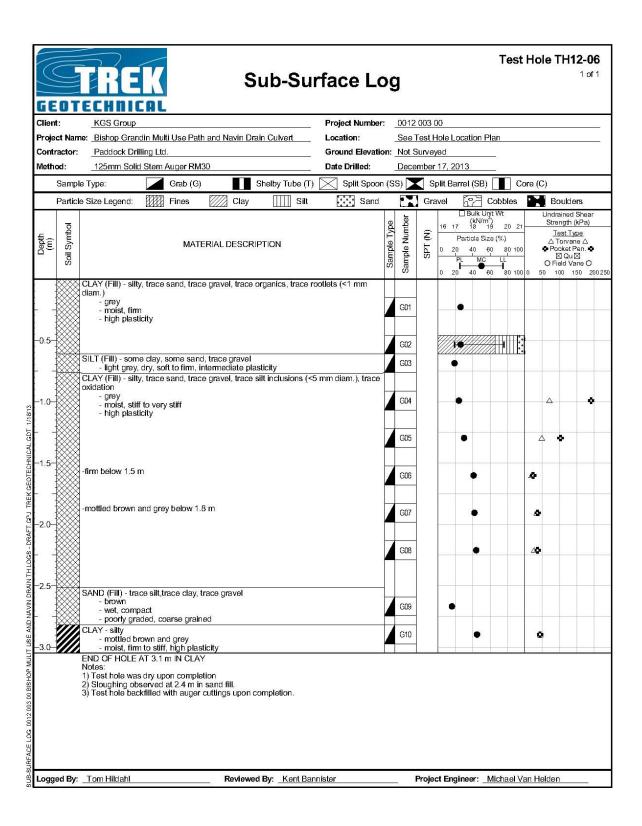












#### Particle Size Analysis for TH12-04



# Grain Size Analysis (Hydrometer Method) ASTM D422

 Project No.
 0012 003 00

 Client
 KGS Group

Project Bishop Grandin Multi-Use Path and Navin Drain Culvert

 Test Hole
 TH12-04

 Sample #
 G12

 Depth (m)
 4.6 - 5.0

 Sample Date
 17-Dec-12

 Test Date
 8-Jan-13

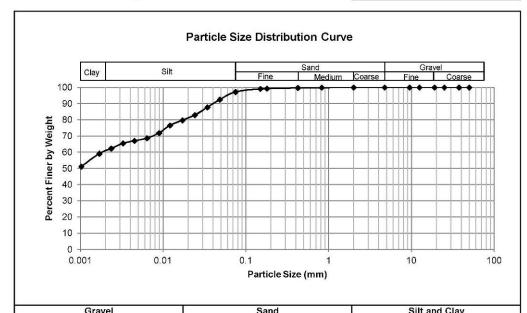
 Technician
 Beta Taryana

 Gravel
 0.0%

 Sand
 2.8%

 Silt
 36.2%

 Clay
 61.0%



Gravei		Sano		Silt alid Glay	
Particle Size (mm)	Percent Passing	Particle Size (mm)	Percent Passing	Particle Size (mm)	Percent Passing
50.0	100.00	4.75	100.00	0.0750	97.22
37.5	100.00	2.00	100.00	0.0484	92.45
25.0	100.00	0.825	99.90	0.0343	87.69
19.0	100.00	0.425	99.73	0.0242	82.92
12.5	100.00	0.180	99.28	0.0171	79.75
9.50	100.00	0.150	99.14	0.0121	76.57
4.75 100.00	100.00	0.075	97.22	0.0089	71.81
				0.0064	68.63
				0.0045	67.04
				0.0033	65.46
				0.0024	62.28
				0.0017	59.10
				0.0010	51.16

# Particle Size Analysis for TH12-05



# Grain Size Analysis (Hydrometer Method) ASTM D422

Project No. 0012 003 00 Client KGS Group

Project Bishop Grandin Multi-Use Path and Navin Drain Culvert

 Test Hole
 TH12-05

 Sample #
 G22

 Depth (m)
 4.6 - 5.0

 Sample Date
 17-Dec-12

 Test Date
 8-Jan-13

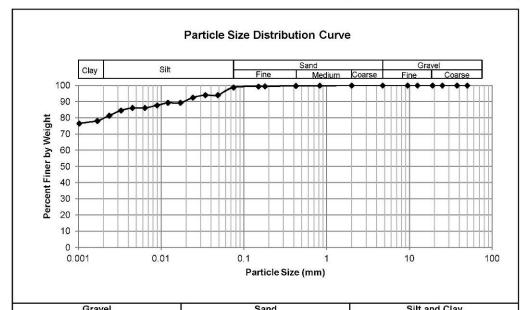
 Technician
 Beta Taryana

 Gravel
 0.0%

 Sand
 1.2%

 Silt
 18.7%

 Clay
 80.1%



Gravei		Sano		Silt and Clay	
Particle Size (mm)	Percent Passing	Particle Size (mm)	Percent Passing	Particle Size (mm)	Percent Passing
50.0	100.00	4.75	100.00	0.0750	98.78
37.5	100.00	2.00	100.00	0.0484	94.04
25.0	100.00	0.825	99.87	0.0343	94.04
19.0	100.00	0.425	99.78	0.0242	92.45
12.5	100.00	0.180	99.46	0.0171	89.28
9.50	100.00	0.150	99.38	0.0121	89.28
4.75 100.00	100.00	0.075	98.78	0.0089	87.69
				0.0064	86.10
				0.0045	86.10
				0.0033	84.51
				0.0024	81.34
				0.0017	78.16
				0.0010	76.57

# Particle Size Analysis for TH12-06



# Grain Size Analysis (Hydrometer Method) ASTM D422

 Project No.
 0012 003 00

 Client
 KGS Group

Project Bishop Grandin Multi-Use Path and Navin Drain Culvert

 Test Hole
 TH12-06

 Sample #
 G2

 Depth (m)
 4.6 - 5.0

 Sample Date
 17-Dec-12

 Test Date
 8-Jan-13

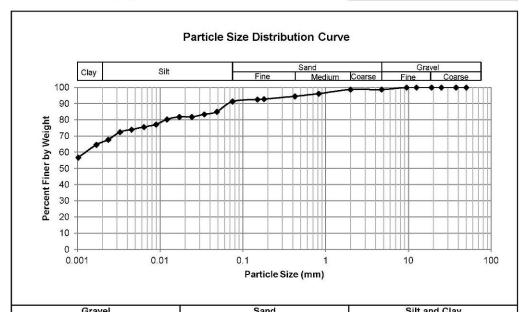
 Technician
 Beta Taryana

 Gravel
 1.3%

 Sand
 7.4%

 Silt
 25.5%

 Clay
 65.9%



Gravei		Sano		Silt and Clay	
Particle Size (mm)	Percent Passing	Particle Size (mm)	Percent Passing	Particle Size (mm)	Percent Passing
50.0	100.00	4.75	98.71	0.0750	91.31
37.5	100.00	2.00	98.65	0.0484	84.94
25.0	100.00	0.825	96.13	0.0343	83.37
19.0	100.00	0.425	94.51	0.0242	81.81
12.5	100.00	0.180	92.79	0.0171	81.81
9.50	100.00	0.150	92.56	0.0121	80.24
4.75 98.71	98.71	0.075	91.31	0.0089	77.11
				0.0064	75.54
				0.0045	73.97
				0.0033	72.41
				0.0024	67.71
				0.0017	64.57
				0.0010	56.74