

GEOTECHNICAL INVESTIGATIONS

Highway Construction
Km 1775.6 to 1786.8 Alaska Highway #1
Yukon, 2002-2003
Volume 1 of 4

Yukon

Community and Transportation Services
Transportation Engineering Branch

Geotechnical Services

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HIGHWAY CONSTRUCTION

GEOTECHNICAL INVESTIGATION

Km 1775.6 to 1786.8
YUKON 2002-2003

ALASKA HIGHWAY #1

Highway Construction
Km 1775.6 to 1786.8
Alaska Highway #1
Yukon 2002-2003
Volume 1 of 4

This Data Package prepared for project viewing:

January, 2002

Transportation Engineering Branch
Geotechnical Services
461 Range Road
Whitehorse, Yukon

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Volume 1 of 4

INTRODUCTION

Investigation notes, classification methods and legends.

CENTRELINE TESTING ALASKA HIGHWAY

Subsurface Exploration and Testing Report Sheets are provided.

The reports for the centreline holes are arranged according to project location, starting at Km 1775+500 and increasing to Km 1786+500.

2001	TEST HOLES 117 to 121	shown with prefix 600-
	TEST HOLES 122 to 146	shown with prefix 601-
	TEST HOLES 147 to 159	shown with prefix 602-
	TEST HOLES 160 to 182	shown with prefix 604-
	TEST HOLES 183 to 207	shown with prefix 605-
	TEST HOLES 208 to 228	shown with prefix 606-
	TEST HOLES 242 to 265	shown with prefix 607-
	TEST HOLES 226 to 286	shown with prefix 608-
	TEST HOLES 1687 to 1698	shown with prefix 629-

NOTE:

Centreline Test Hole locations indicated on the Subsurface Exploration and Testing Report Sheets are approximate. Actual Test Hole locations, located by GPS survey or field survey, are as shown on project plans.

CONTENTS (continued)**Volume 2 of 4****CENTRELINE TESTING ALASKA HIGHWAY**

Laboratory Testing Result Sheets are provided.

The reports for the centreline holes are arranged according to test hole number, starting at 600-117 and increasing to 629-1698.

2001	TEST HOLES 117 to 121	shown with prefix 600-
	TEST HOLES 122 to 146	shown with prefix 601-
	TEST HOLES 147 to 159	shown with prefix 602-
	TEST HOLES 160 to 182	shown with prefix 604-
	TEST HOLES 183 to 207	shown with prefix 605-
	TEST HOLES 208 to 228	shown with prefix 606-
	TEST HOLES 242 to 265	shown with prefix 607-
	TEST HOLES 226 to 286	shown with prefix 608-
	TEST HOLES 1687 to 1698	shown with prefix 629-

NOTE:

Centreline Test Hole locations indicated on the Subsurface Exploration and Testing Report Sheets are approximate. Actual Test Hole locations, located by GPS survey or field survey, are as shown on project plans.

CONTENTS (continued)

Volume 3 of 4

GRANULAR SOURCE Km 1776 LHS ALASKA HIGHWAY

Location plans, photographs, and subsurface exploration and testing report sheets are provided.

Backhoe Testing

1988	TEST PITS 1 to 11	shown with prefix 033-
2001	TEST PITS 1-45	shown with prefix 610-

BORROW SOURCE Km 1777.5 RHS ALASKA HIGHWAY

Subsurface exploration and testing report sheets are provided.

Auger Testing

2001	TEST HOLES 1672 to 1679	shown with prefix 629-
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CONTENTS (continued)

Volume 4 of 4

BORROW SOURCE Km 1779.5 RHS ALASKA HIGHWAY

Subsurface exploration and testing report sheets are provided.

Auger Testing

2001	TEST HOLES 229 to 232	shown with prefix 606-
2001	TEST HOLES 233 to 241	shown with prefix 607-
2001	TEST HOLES 1680 to 1686	shown with prefix 629-

GRANULAR SOURCE Km 1786 – 4 kms LHS ALASKA HIGHWAY

Location plans, photographs, and subsurface exploration and testing report sheets are provided.

Backhoe Testing

1998	TEST PITS 203 to 226	shown with prefix 497-
2001	TEST PITS 1-26	shown with prefix 609-

HIGHWAY CONSTRUCTION

GEOTECHNICAL INVESTIGATION
Km 1775.6 to 1786.8
YUKON 2002-2003

ALASKA HIGHWAY #1

INTRODUCTION

GEOTECHNICAL INVESTIGATION DATA

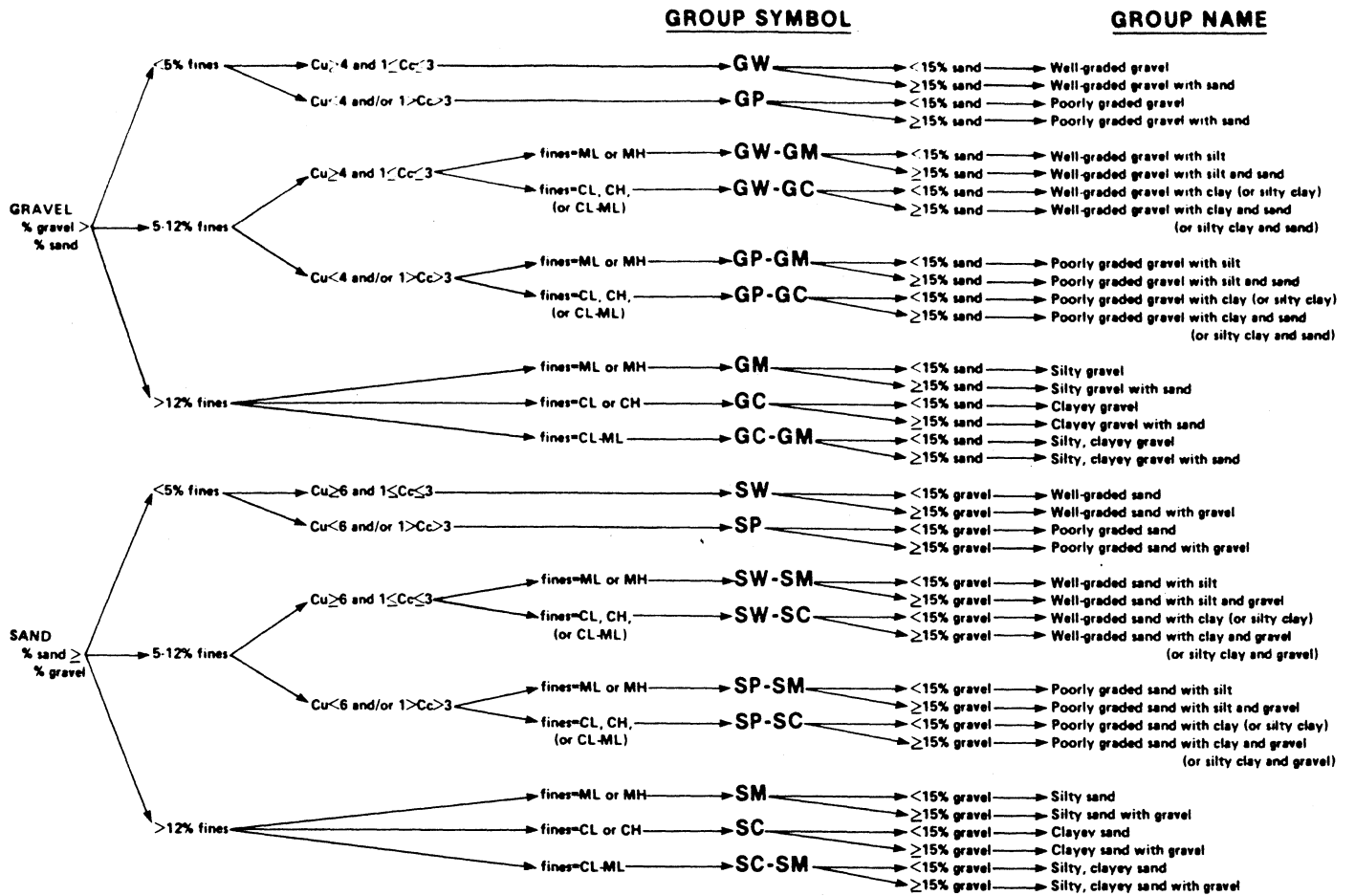
This geotechnical investigation data is provided to assist in the interpretation of soil conditions encountered within this project area. The data presented was prepared solely for Departmental designing and estimating purposes.

The description of material / soil description shown on the subsurface exploration and test reports is a textural description based on identification of retrieved material by the field drilling technician at the time of investigation. This description may be modified following laboratory testing and classification of selected samples. The system used is based on the ASTM standards for identification and classification of soils. Permafrost classifications and groundwater levels are indicated as detected at time of drilling, unless otherwise noted. Changes in moisture or frost conditions should be anticipated depending on the season, time lapse or amount of development work done since the date of investigation.

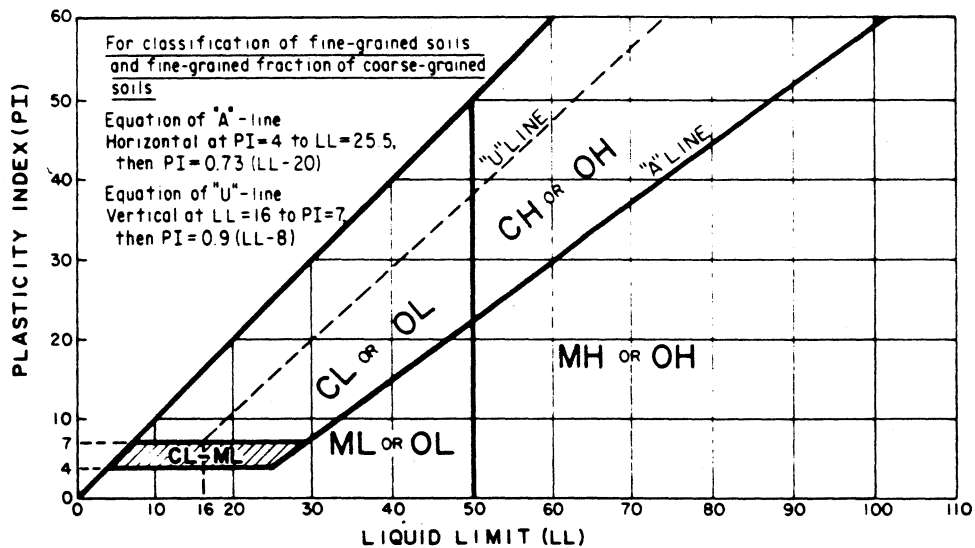
The sample identification and laboratory testing data is provided to give detailed physical properties of selected retrieved samples within the subsurface profile. ***These tests may be conducted on disturbed samples and may exhibit properties different from the native materials. The sample classification may also vary from the soil description due to variations within the sampled strata or because of changes resulting from the sampling method, excavation equipment used or testing preparation procedures.***

These descriptions are not intended to be conclusive as to the nature of any material encountered, or to conditions between or around the test borings/pits.

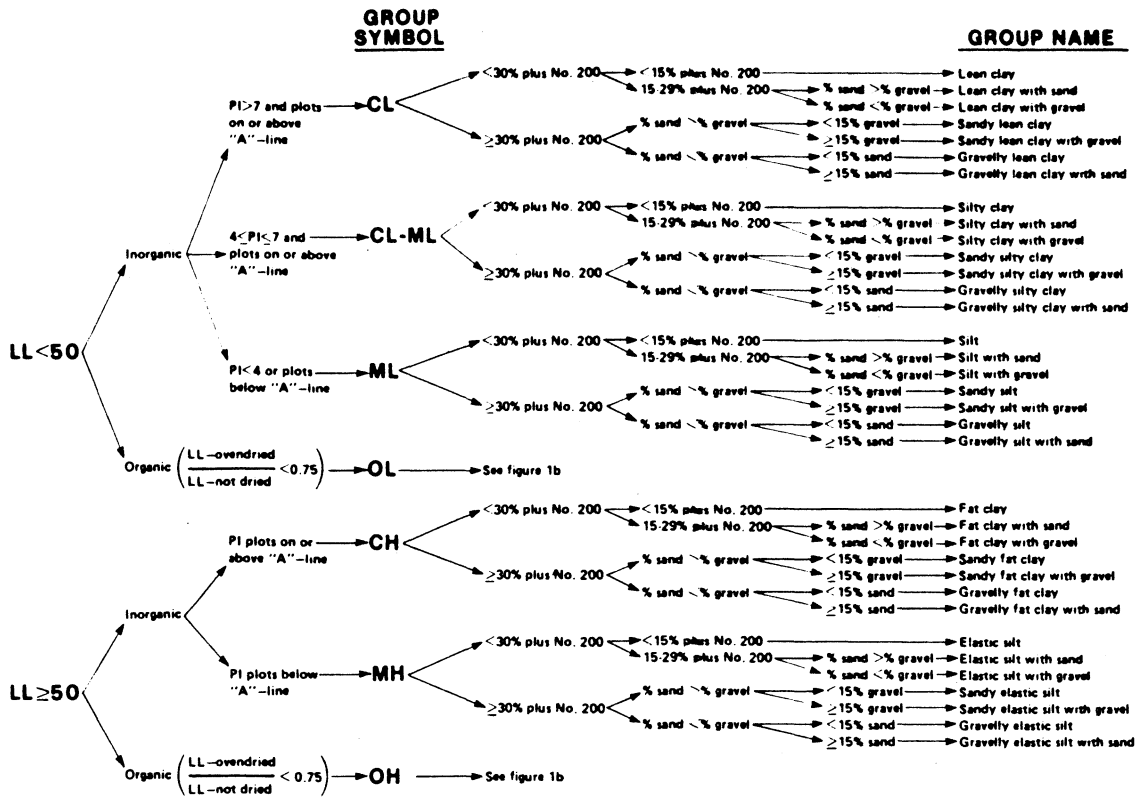
It is recommended that a site inspection, combined with consideration of the regional geology and climatic conditions be conducted. An evaluation of the investigation methods and development work done since the time of investigation should be done prior to interpreting the subsurface conditions at the site for construction purposes.



Flow chart for classifying coarse-grained soil.



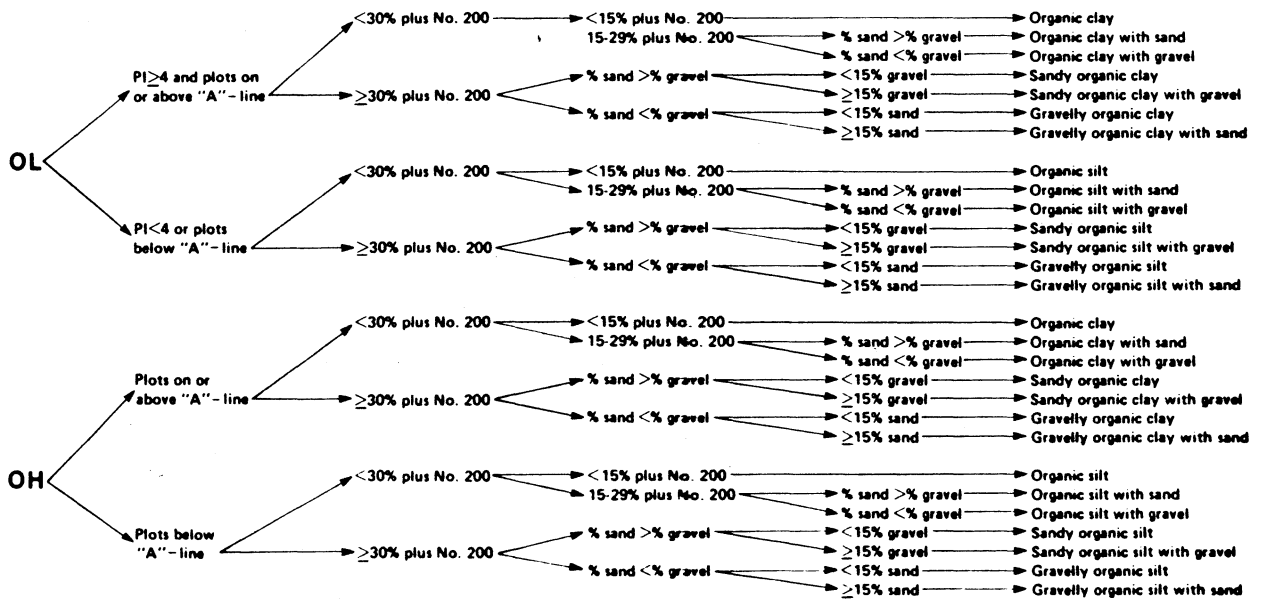
Plasticity chart.



Flow chart for classifying fine-grained soil.

GROUP SYMBOL

GROUP NAME



Flow chart for classifying organic soil.

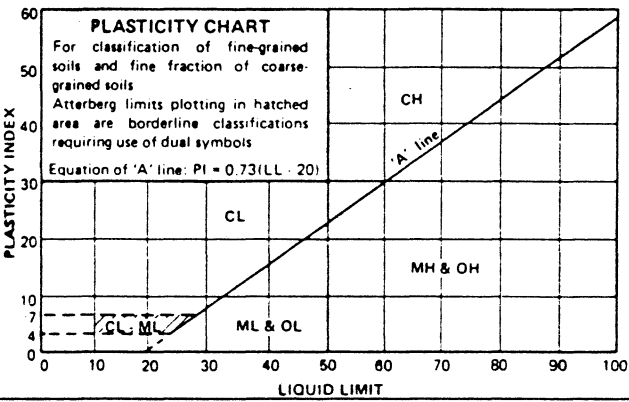
CRITERIA FOR ASSIGNING GROUP SYMBOLS AND GROUP NAMES USING LABORATORY TESTS ^a				SOIL CLASSIFICATION	
				GROUP SYMBOL	GROUP NAME ^b
COARSE-GRAINED SOILS more than 50% retained on No. 200 sieve	GRAVELS More than 50% of coarse fraction retained on No. 4 sieve	CLEAN GRAVELS Less than 5% fines ^c	$C_u \geq 4$ and $1 \leq C_c \leq 3$ ^e	GW	Well-graded gravel ^f
			$C_u < 4$ and/or $1 > C_c > 3$ ^e	GP	Poorly graded gravel ^f
		GRAVELS WITH FINES More than 12% fines ^c	Fines classify as ML or MH	GM	Silty gravel ^{f, g, h}
			Fines classify as CL or CH	GC	Clayey gravel ^{f, g, h}
	SANDS 50% or more of coarse fraction passes No. 4 sieve	CLEAN SANDS Less than 5% fines ^d	$C_u \geq 6$ and $1 \leq C_c \leq 3$ ^e	SW	Well-graded sand ⁱ
			$C_u < 6$ and/or $1 > C_c > 3$ ^e	SP	Poorly graded sand ⁱ
SANDS WITH FINES More than 12% fines ^d		Fines classify as ML or MH	SM	Silty sand ^{g, h, i}	
		Fines classify as CL or CH	SC	Clayey sand ^{g, h, i}	
FINE-GRAINED SOILS 50% or more passed the No. 200 sieve	SILTS AND CLAYS Liquid limit less than 50%	inorganic	PI > 7 and plots on or above "A" line ^j	CL	Lean clay ^{k, l, m}
			PI < 4 or plots below "A" line ^j	ML	Silt ^{k, l, m}
		organic	Liquid limit - oven dried < 0.75 Liquid limit - not dried	OL	Organic clay ^{k, l, m, n} Organic silt ^{k, l, m, o}
			SILTS AND CLAYS Liquid limit 50% or more	inorganic	PI plots on or above "A" line
	PI plots below "A" line	MH			Elastic silt ^{k, l, m}
	organic	Liquid limit - oven dried < 0.75 Liquid limit - not dried		OH	Organic clay ^{k, l, m, p} Organic silt ^{k, l, m, q}
Highly organic soils		Primarily organic matter, dark in color, and organic odor		PT	Peat

- Based on the material passing the 3-in (75-mm) sieve.
- If field sample contained cobbles and/or boulders, add "with cobbles and/or boulders" to group name.
- Gravels with 5 to 12% fines require dual symbols
GM-GM well graded gravel with silt
GM-GC well graded gravel with clay
GP-GM poorly graded gravel with silt
GP-GC poorly graded gravel with clay
- Sands with 5 to 12% fines require dual symbols
SM-SM well graded sand with silt
SM-SC well graded sand with clay
SP-SM poorly graded sand with silt
SP-SC poorly graded sand with clay
- $C_u = D_{60}/D_{10}$ $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$
- If soil contains $\geq 15\%$ sand, add "with sand" to group name.
- If fines classify as CL-ML, use dual symbol GC-GM, SC-SM.
- If fines are organic, add "with organic fines" to group name.
- If soil contains $\geq 15\%$ gravel, add "with gravel" to group name.
- If Atterberg limits plot in hatched area, soil is a CL-ML, silty clay.
- If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel" whichever is predominant.
- If soil contains $> 30\%$ plus No. 200, predominantly sand, add "sandy" to group name.
- If soil contains $\geq 30\%$ plus No. 200, predominantly gravel, add "gravelly" to group name.
- PI > 4 and plots on or above "A" line.
- PI < 4 or plots below "A" line.
- PI plots on or above "A" line.
- PI plots below "A" line.

Soil classification chart

UNIFIED SOIL CLASSIFICATION†

MAJOR DIVISIONS		GROUP SYMBOLS	TYPICAL NAMES	CLASSIFICATION CRITERIA		
COARSE-GRAINED SOILS More than 50% retained on No. 200 sieve*	GRAVELS 50% or more of coarse fraction retained on No. 4 sieve	CLEAN GRAVELS	GW	Well-graded gravels and gravel-sand mixtures, little or no fines	$C_u = D_{60}/D_{10}$ Greater than 4 $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ Between 1 and 3 Not meeting both criteria for GW	
		GRAVELS WITH FINES	GP	Poorly-graded gravels and gravel-sand mixtures, little or no fines		
		SANDS WITH FINES	GM	Silty gravels, gravel-sand silt mixtures		
		SANDS WITH FINES	GC	Clayey gravels, gravel-sand clay mixtures		
	SANDS More than 50% of coarse fraction passes No. 4 sieve	CLEAN SANDS	SW	Well-graded sands and gravelly sands, little or no fines	$C_u = D_{60}/D_{10}$ Greater than 6 $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ Between 1 and 3 Not meeting both criteria for SW	
			SANDS WITH FINES	SP		Poorly-graded sands and gravelly sands, little or no fines
		SILTS AND CLAYS Liquid limit 50% or less	SANDS WITH FINES	SM	Silty sands, sand-silt mixtures	Classification on basis of percentage of fines Less than 5% pass No. 200 sieve GW, GP, SW, SP More than 12% pass No. 200 sieve GM, GC, SM, SC 5% to 12% pass No. 200 sieve Borderline classification requiring use of dual symbols
			SANDS WITH FINES	SC	Clayey sands, sand-clay mixtures	
			SANDS WITH FINES	ML	Inorganic silts, very fine sands, rock flour, silty or clayey fine sands	
			SANDS WITH FINES	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	
SILTS AND CLAYS Liquid limit greater than 50%	SANDS WITH FINES	OL	Organic silts and organic silty clays of low plasticity	PLASTICITY CHART For classification of fine-grained soils and fine fraction of coarse-grained soils Atterberg limits plotting in hatched area are borderline classifications requiring use of dual symbols Equation of 'A' line: $PI = 0.73(LL - 20)$		
	SANDS WITH FINES	MH	Inorganic silts, micaceous or diatomaceous fine sands or silts, elastic silts			
	SANDS WITH FINES	CH	Inorganic clay of high plasticity, fat clays			
	SANDS WITH FINES	OH	Organic clays of medium to high plasticity			
HIGHLY ORGANIC SOILS		PT	Peat, muck and other highly organic soils	*Based on the material passing the 3 in. (75 mm) sieve †ASTM Designation D 2487, for identification procedure see D 2488		



GROUND ICE DESCRIPTION

ICE NOT VISIBLE			
GROUP SYMBOLS	SYMBOLS	SUBGROUP DESCRIPTION	
N	Nf	Poorly-bonded or friable	
	Nbn	No excess ice, well-bonded	
	Nbe	Excess ice, well-bonded	

VISIBLE ICE LESS THAN 50% BY VOLUME			
GROUP SYMBOLS	SYMBOLS	SUBGROUP DESCRIPTION	
V	Vx	Individual ice crystals or inclusions	
	Vc	Ice coatings on particles	
	Vr	Random or irregularly oriented ice formations	
	Vs	Stratified or distinctly oriented ice formations	

NOTE:

- Dual symbols are used to indicate borderline or mixed ice classifications
- Visual estimates of ice contents indicated on borehole logs $\pm 5\%$
- This system of ground ice description has been modified from NRC Technical Memo 79, Guide to the Field Description of Permafrost for Engineering Purposes

LEGEND
 Soil Ice

VISIBLE ICE GREATER THAN 50% BY VOLUME			
ICE	ICE + Soil Type		
		Ice with soil inclusions	
		Ice without soil inclusions (greater than 25 mm (1 in.) thick)	

		BOUNDARY LINES ON DRILL LOGS		TEST HOLE NO: 3				
ENGINEERING-CAPITAL				Project No:				
				ELEVATION: 0.00 (m)				
SAMPLE TYPE		<input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE	
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80 PLASTIC M.C. LIQUID -----●----- 20 40 60 80	USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (m)
0.0	BOUNDARY LINES							0.0
	A solid line is used when a definite soil change is logged and a depth is known.							
1.0	A dashed line is used when a definite soil change is noted either by the field log or the sample test results and the depth of change is unknown.							1.0
2.0	A dotted line is used when a gradual or gradational change is noted by field notes and sample test results.							2.0
3.0								3.0
4.0	▼ A triangle over two lines indicates water level detected at the time of drilling, unless otherwise noted							4.0
5.0								5.0
6.0								6.0
Government of Yukon Transportation Engineering				LOGGED BY:		COMPLETION DEPTH: 6.0 m		
				REVIEWED BY:		COMPLETE: / /		
				Fig. No:		Page 1 of 1		

HIGHWAY CONSTRUCTION

GEOTECHNICAL INVESTIGATION

Km 1775.6 to 1786.8
YUKON 2002-2003

ALASKA HIGHWAY #1

CENTRELINE TESTING
1775+500 to 1786+500
ALASKA HIGHWAY

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 600-117
ENGINEERING CAPITAL	KM 1729-1787 A/H	Project No: 092-202101-0361
B40 L MOBILE DRILL 6" AUGER	LOCATION: 1775+500 10m LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		DEPTH (m)
				20	40	60			80	20	40	60	
0.0	ORGANIC -brown -moist											0.0	
1.0	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM) -grey -moist											1.0	
2.0												2.0	
3.0												3.0	
4.0	END HOLE @ 4.0m -refusal	<input checked="" type="checkbox"/>	189				GW-GM	◆		■		4.0	
5.0												5.0	
6.0												6.0	

Government of Yukon Transportation Engineering	LOGGED BY: B.B.	COMPLETION DEPTH: 4.0 m
	REVIEWED BY:	COMPLETE: 01/06/21
	Fig. No:	Page 1 of 1

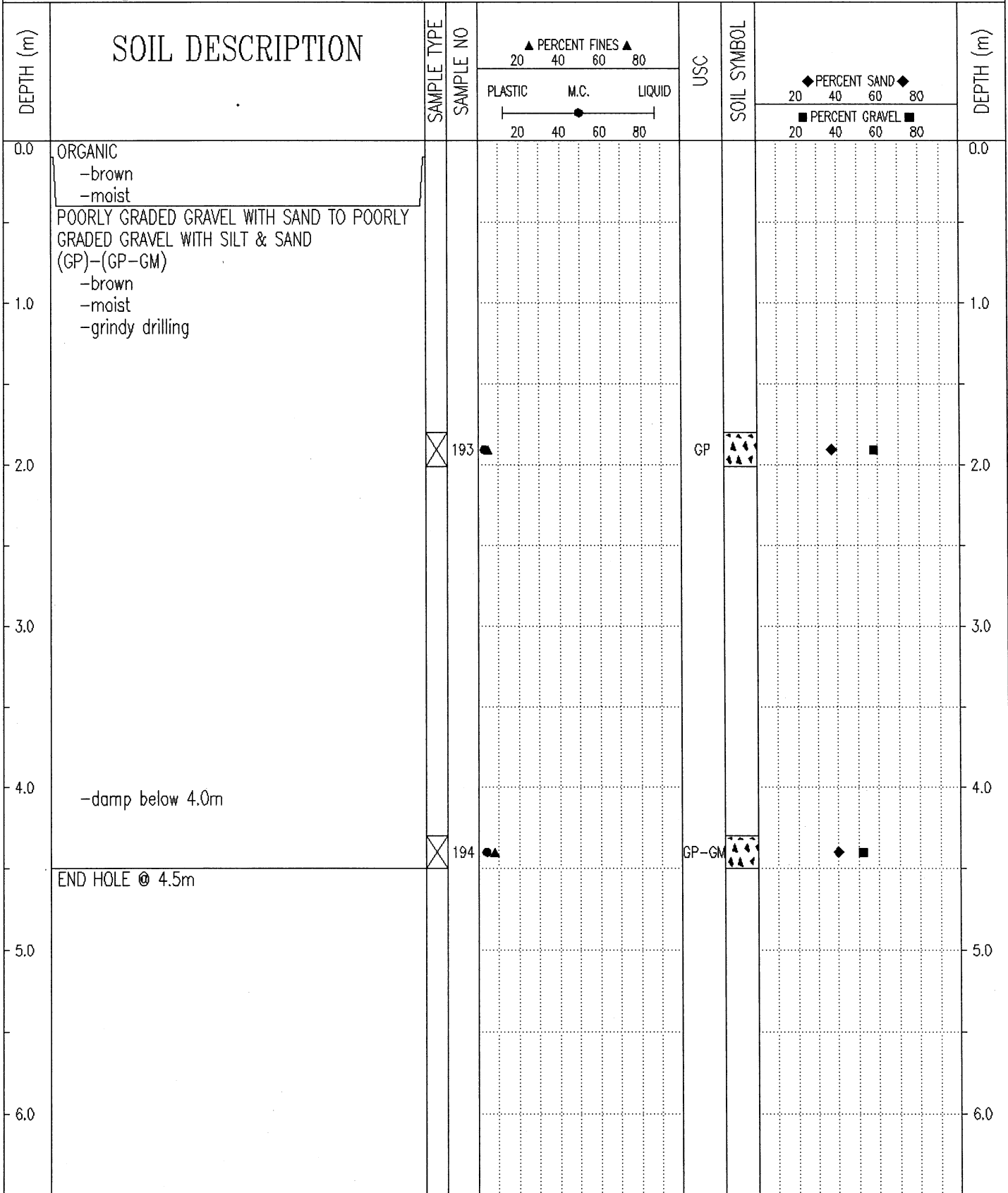
SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 600-118								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B40 L MOBILE DRILL 6" AUGER		LOCATION: 1775+800 15m LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE					
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -brown -damp											0.0
0.0 - 1.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -grey -moist											
1.0			190	●▲			GP-GM	▲▲▲▲	◆	■		1.0
2.0	SILTY SAND (SM) -brown -moist -smooth easy drilling											
2.0 - 3.0			191	●▲			SM	●●●●		◆		3.0
3.0			192	●▲			SM	●●●●		◆		4.0
4.0												
5.0	END HOLE @ 4.5m											
6.0												

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Transportation Engineering

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REVIEWED BY:
Fig. No:

COMPLETION DEPTH: 4.5 m
COMPLETE: 01/06/21
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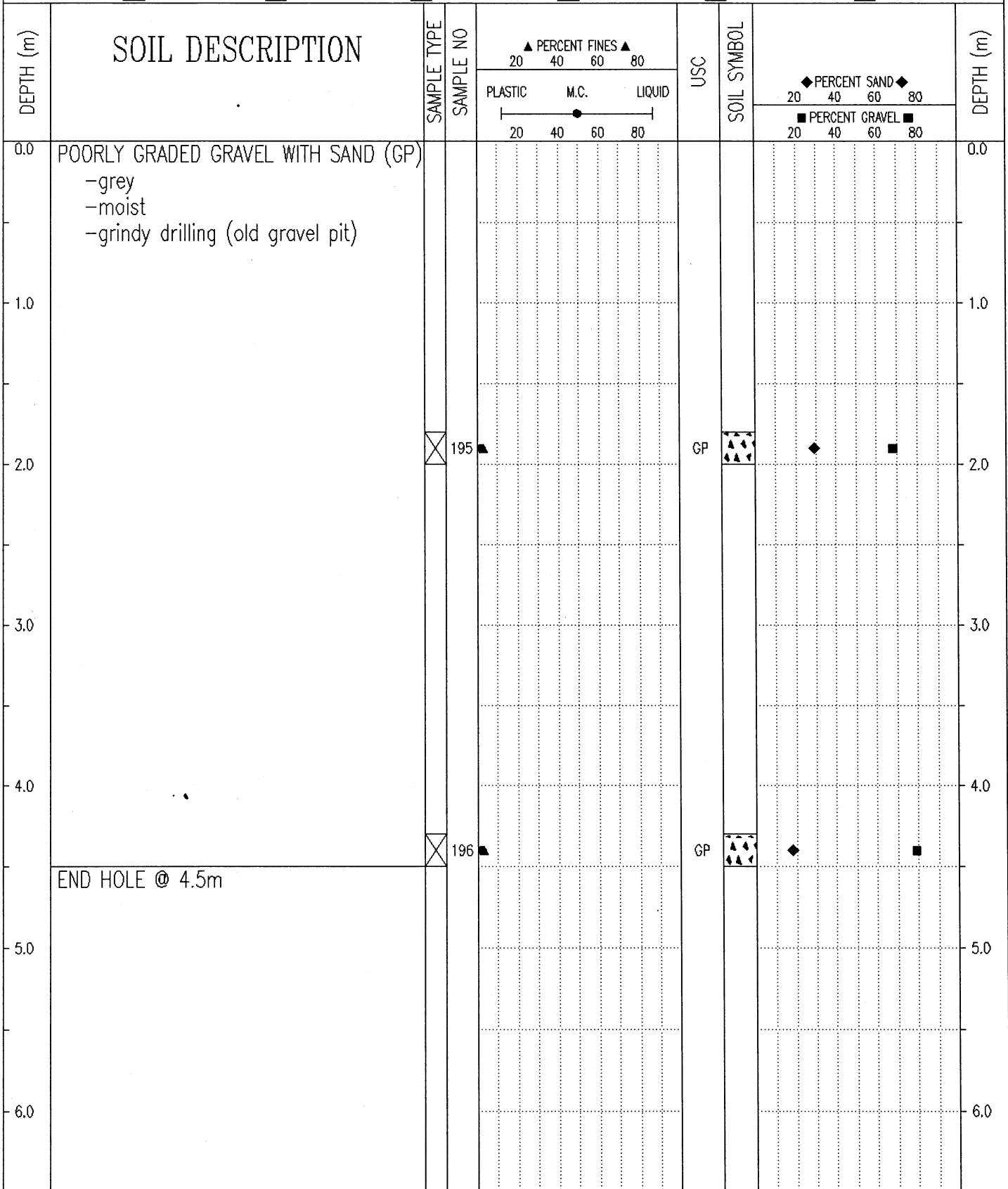
SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 600-119
ENGINEERING CAPITAL	KM 1729-1787 A/H	Project No: 092-202101-0361
B40 L MOBILE DRILL 6" AUGER	LOCATION: 1775+900 7m LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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REVIEWED BY:	COMPLETE: 01/06/21
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 600-120
ENGINEERING CAPITAL	KM 1729-1787 A/H	Project No: 092-202101-0361
B40 L MOBILE DRILL 6" AUGER	LOCATION: 1776+000 14m LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



Government of Yukon Transportation Engineering	LOGGED BY: B.B.	COMPLETION DEPTH: 4.5 m
	REVIEWED BY:	COMPLETE: 01/06/21
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 601-146								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION:1776+050 30m LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -brown -moist											0.0
0.0 - 1.0	SILTY SAND (SM) -moist											
1.0		<input checked="" type="checkbox"/>	237	●	▲		SM	▣	◆			
2.0	SILT WITH SAND (ML) -some organic -brown -moist											
2.0		<input checked="" type="checkbox"/>	238		●	▲	ML	▣	◆			
2.0 - 3.0	ASH											
3.0	END HOLE @ 2.9m -Interceptor ditch											
4.0												
5.0												
6.0												
Government of Yukon Transportation Engineering				LOGGED BY: B.B.				COMPLETION DEPTH: 2.9 m				
				REVIEWED BY:				COMPLETE: 01/06/28				
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 600-121								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B40 L MOBILE DRILL 6" AUGER		LOCATION: 1776+100 10m LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -brown -moist											0.0
1.0	SILTY SAND (SM) -brown -damp	<input checked="" type="checkbox"/>	197	●	▲		SM	◆	■			1.0
2.0	SILTY SAND WITH GRAVEL (SM) -brown -damp -trace of grindy drilling											2.0
3.0		<input checked="" type="checkbox"/>	198	●	▲		SM	◆	■			3.0
4.0												4.0
5.0	END HOLE @ 4.5m											5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 4.5 m						
				REVIEWED BY:		COMPLETE: 01/06/22						
				Fig. No:		Page 1 of 1						

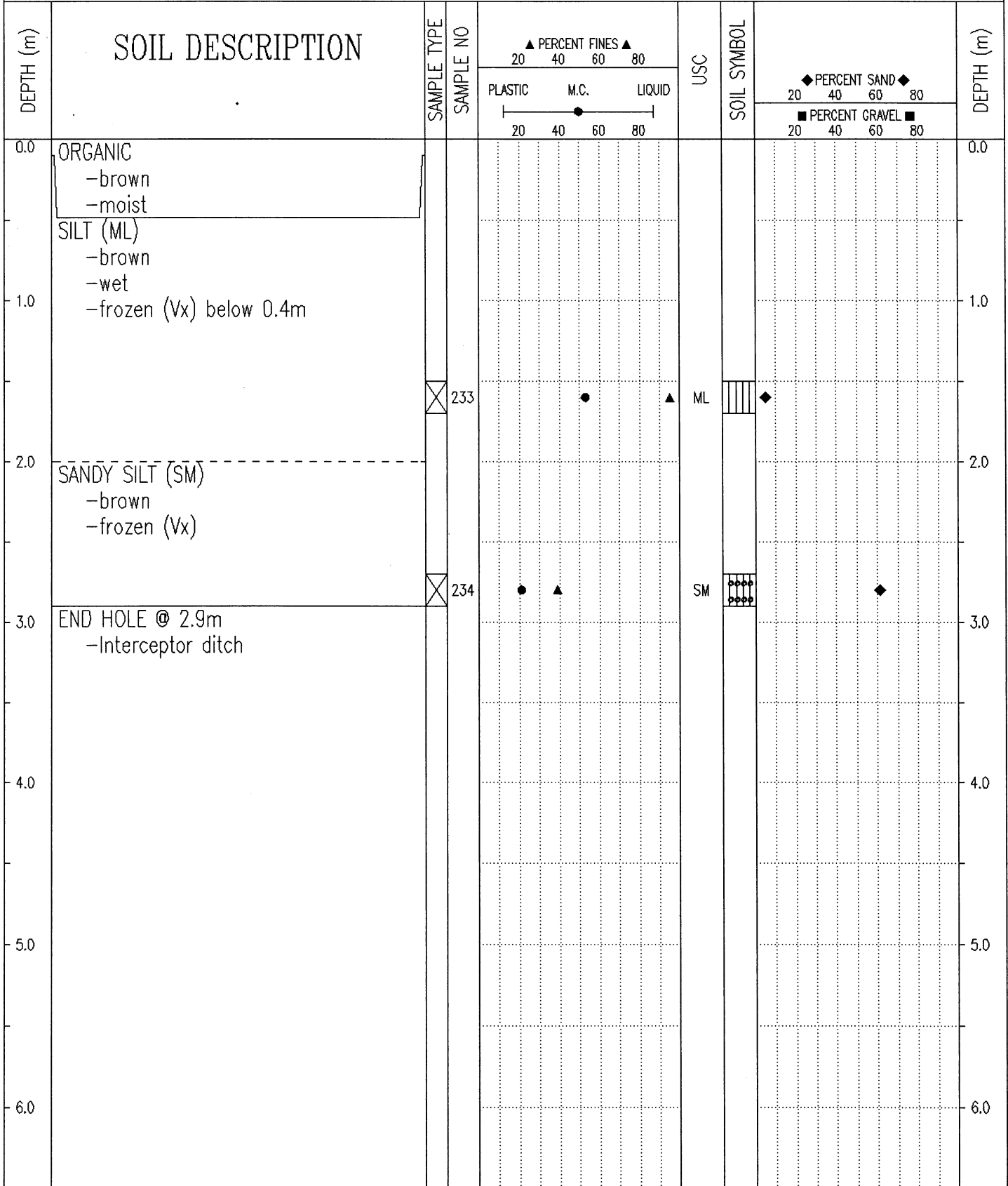
SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 601-145							
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361							
MOBILE B40 L 6" AUGER		LOCATION: 1776+150 35m LT		ELEVATION: 0.00 (m)							
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER							
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE							
				<input type="checkbox"/> CORE							
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC -brown -moist										0.0
1.0	SILT (ML) -brown -frozen (Nb) below 0.5m										1.0
2.0		<input checked="" type="checkbox"/>	235				ML				2.0
3.0	WELL GRADED SAND WITH SILT AND GRAVEL (SW-SM) -brown -frozen (Nb) -grindy drilling END HOLE @ 2.9m -Interceptor ditch	<input checked="" type="checkbox"/>	236	●	▲		SW-SM		■	◆	3.0
4.0											4.0
5.0											5.0
6.0											6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 2.9 m					
				REVIEWED BY:		COMPLETE: 01/06/28					
				Fig. No:				Page 1 of 1			

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 601-122								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION:1776+200 10M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -brown											0.0
	SILTY SAND (SM) -brown -frozen (Nb)											
1.0	SILT -brown -frozen (Nb)	<input checked="" type="checkbox"/>	199	●	▲		SM	◆◆◆◆		◆		1.0
	SILTY SAND -brown -moist											
2.0	ORGANIC SILTY SAND -brown -moist											2.0
	POORLY GRADED GRAVEL WITH SILT AND SAND (GP)-(GM) -grey -damp -grindy drilling below 2.5m											3.0
4.0	END HOLE @ 4.0m -refusal	<input checked="" type="checkbox"/>	200	●▲			GP-GM	◆◆◆◆▲▲		■		4.0
5.0												5.0
6.0												6.0

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LOGGED BY: B.B. COMPLETION DEPTH: 4.0 m
REVIEWED BY: COMPLETE: 01/06/25
Fig. No: Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 601-144
ENGINEERING CAPITAL	DUKE RV TO QUILL CR.	Project No: 092-202101-0361
MOBILE B40 L 6" AUGER	LOCATION:1776+250 35m LT	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE	



Government of Yukon Transportation Engineering	LOGGED BY: B.B.	COMPLETION DEPTH: 2.9 m
	REVIEWED BY:	COMPLETE: 01/06/28
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 601-123						
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361						
MOBILE B40 L 6" AUGER		LOCATION:1776+300 10M LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	20	
0.0	ORGANIC -brown -saturated									0.0
	SILTY SAND WITH ORGANIC -saturated									
1.0	ASH -frozen									1.0
	SILT (ML) -brown -frozen (Nb)	<input checked="" type="checkbox"/>	201		●	▲	ML	◆◆		
2.0										2.0
3.0	-less sand -some organic and ice 2.8 to 4.4m									3.0
4.0										4.0
	-grindy drilling below 4.4m -suspect gravel below 4.4m									
5.0	END HOLE @ 4.5m									5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 4.5 m COMPLETE: 01/06/25				
						Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 601-124						
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361						
MOBILE B40 L 6" AUGER		LOCATION: 1776+370 2M LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80		DEPTH (m)
				PLASTIC M.C. LIQUID 20 40 60 80				■ PERCENT GRAVEL ■ 20 40 60 80		
0.0	SILTY SANDY GRAVEL -no sample retrieved, material washed off auger -grindy drilling									0.0
1.0	-water level @ 1.0m									1.0
2.0										2.0
3.0										3.0
4.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Nf) -smooth drilling									4.0
4.0		<input checked="" type="checkbox"/>	202	●	▲		SM	◆		4.0
5.0	END HOLE @ 4.3m -water level @ 0.4m upon completion of test hole -culvert location									5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 4.3 m COMPLETE: 01/06/25				
						Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT SHAKWAK SEG 11 TEST HOLE NO: 601-125

ENGINEERING CAPITAL DUKE RV TO QUILL CR. Project No: 092-202101-0361

MOBILE B40 L 6" AUGER LOCATION:1776+370 20M LT ELEVATION: 0.00 (m)

SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ORGANIC -brown -damp										0.0	
0.0 - 1.0	SILTY SAND -brown -damp											
1.0 - 2.0	POORLY GRADED GRAVEL WITH SAND (GP) -grey -saturated -grindy drilling below 0.5m											
2.0	-water level @ 2.1m	<input checked="" type="checkbox"/>	203	▲			GP	▲▲▲	◆	■	2.0	
2.0 - 3.0	-smooth drilling below 2.8m -no sample retrieved below 2.8m, material washed away											
3.0 - 4.0	-hard smooth drilling below 4.0m											
4.0 - 5.0	END HOLE @ 4.3m -refusal -culvert location											
5.0 - 6.0												

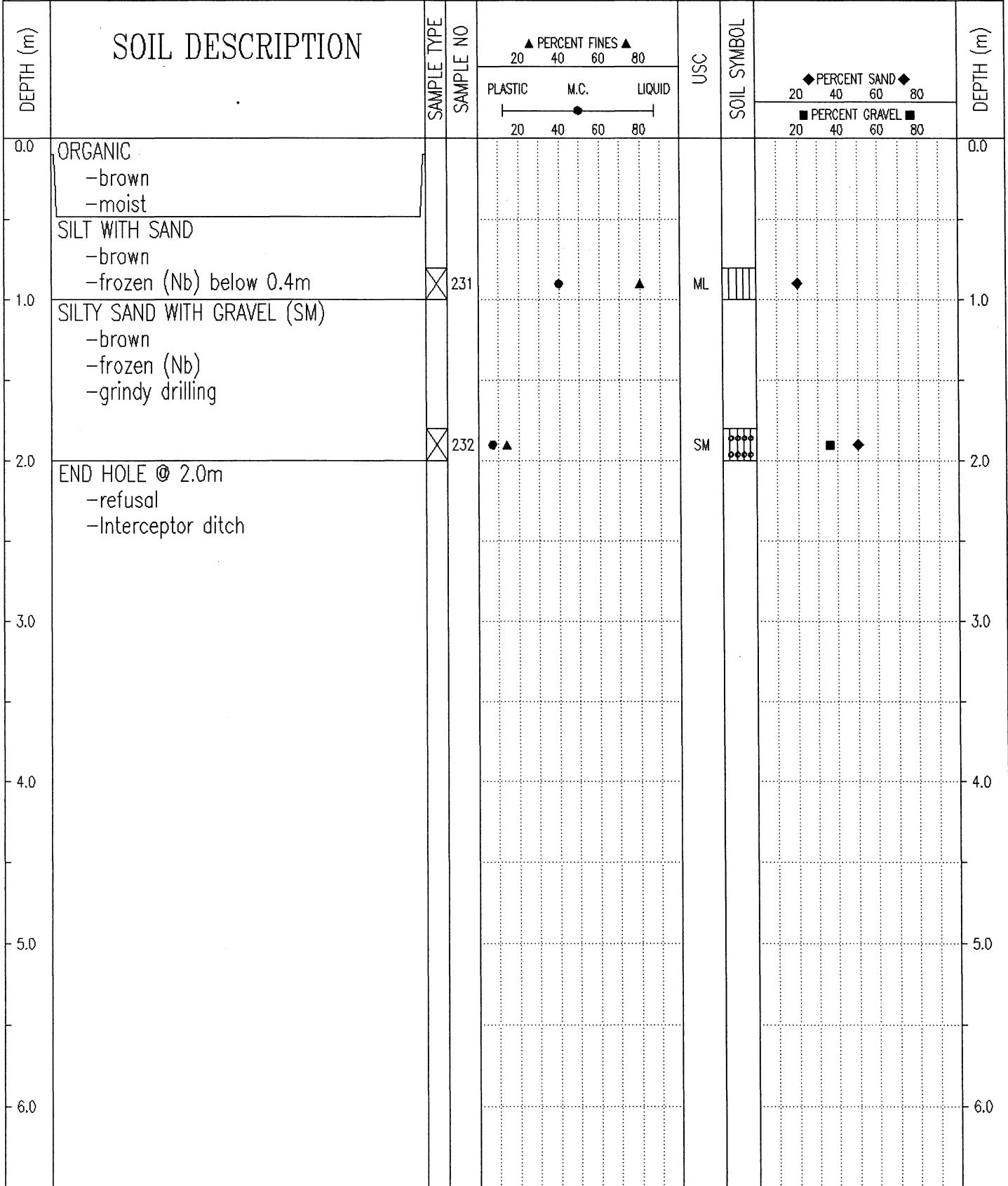
Government of Yukon Transportation Engineering	LOGGED BY: B.B.	COMPLETION DEPTH: 4.3 m
	REVIEWED BY:	COMPLETE: 01/06/26
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 601-126
ENGINEERING CAPITAL	DUKE RV TO QUILL CR.	Project No: 092-202101-0361
MOBILE B40 L 6" AUGER	LOCATION: 1776+378 23M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC -brown -moist										0.0	
1.0	SILTY SAND WITH GRAVEL (SM) -brown -damp -grindy drilling below 0.5m										1.0	
2.0	-easy grindy drilling below 2.0m										2.0	
3.0	-smooth easy drilling below 2.5m										3.0	
4.0											4.0	
4.5	-grey below 4.0m -saturated 4.0m		204	●	▲		SM	◆◆◆◆	◆◆		4.5	
5.0	END HOLE @ 4.5m Note: Test hole in active boggy water course -culvert location										5.0	
6.0											6.0	

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	REVIEWED BY:	COMPLETE: 01/06/26
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 601-143
ENGINEERING CAPITAL	DUKE RV TO QUILL CR.	Project No: 092-202101-0361
MOBILE B40 L 6" AUGER	LOCATION:1776+400 35m LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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Fig. No:

COMPLETION DEPTH: 2.0 m

COMPLETE: 01/06/28

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 601-142
ENGINEERING CAPITAL	DUKE RV TO QUILL CR.	Project No: 092-202101-0361
MOBILE B40 L 6" AUGER	LOCATION:1776+500 35m LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC -brown -moist -frozen below .2m										0.0	
0.0 - 0.8	ASH											
0.8 - 1.0	SILT (ML) -brown -frozen (Vx)	<input checked="" type="checkbox"/>	230		55	75	ML	◆			1.0	
1.0 - 2.8	ORGANIC -brown -frozen (Vx)											
2.8 - 3.0	END HOLE @ 2.8m -Interceptor ditch											
3.0 - 6.0												

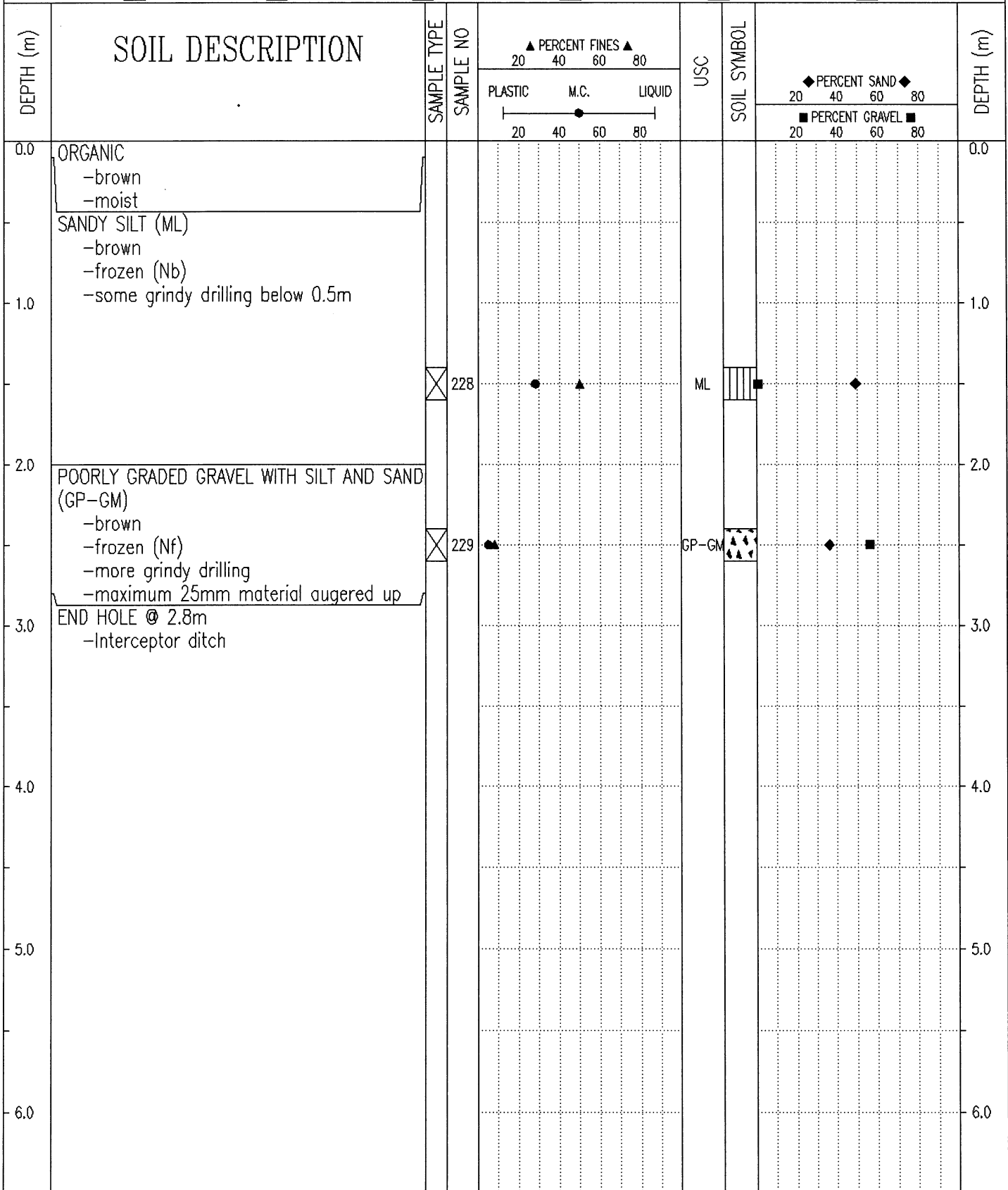
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REVIEWED BY:
Fig. No:

COMPLETION DEPTH: 2.8 m
COMPLETE: 01/06/27

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 601-127								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1776+550 CENTERLINE		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	POORLY GRADED GRAVEL WITH SILT AND SAND to SILTY GRAVEL WITH SAND (GP-GM)-(GM) -grey to brown -moist -grindy drilling											0.0
1.0												1.0
2.0												2.0
3.0												3.0
4.0												4.0
4.5	END HOLE @ 4.5m											4.5
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.				COMPLETION DEPTH: 4.5 m				
				REVIEWED BY:				COMPLETE: 01/06/26				
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 601-141
ENGINEERING CAPITAL	DUKE RV TO QUILL CR.	Project No: 092-202101-0361
MOBILE B40 L 6" AUGER	LOCATION: 1776+600 35m LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

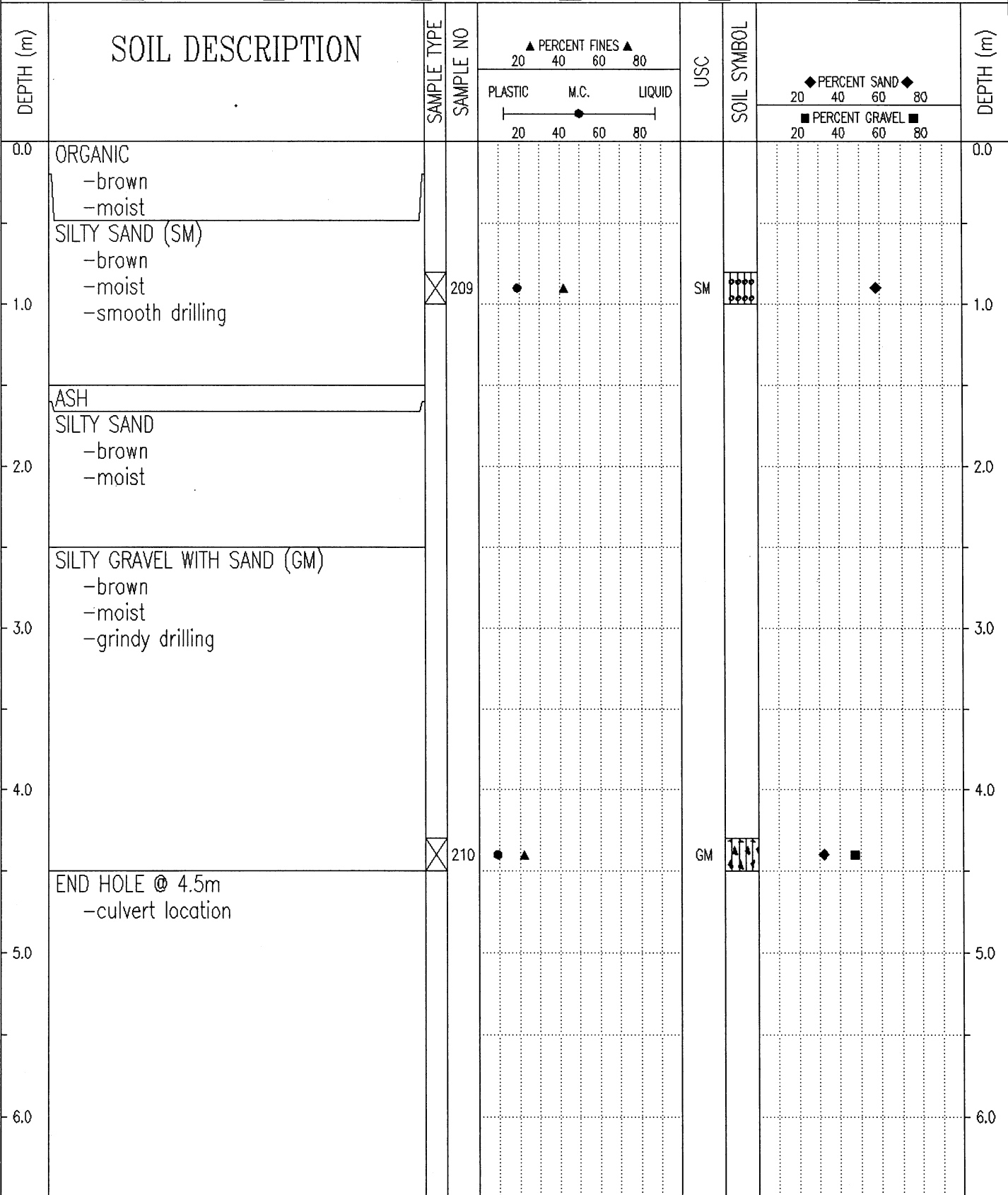


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LOGGED BY: B.B.	COMPLETION DEPTH: 2.8 m
REVIEWED BY:	COMPLETE: 01/06/27
Fig. No:	Page 1 of 1

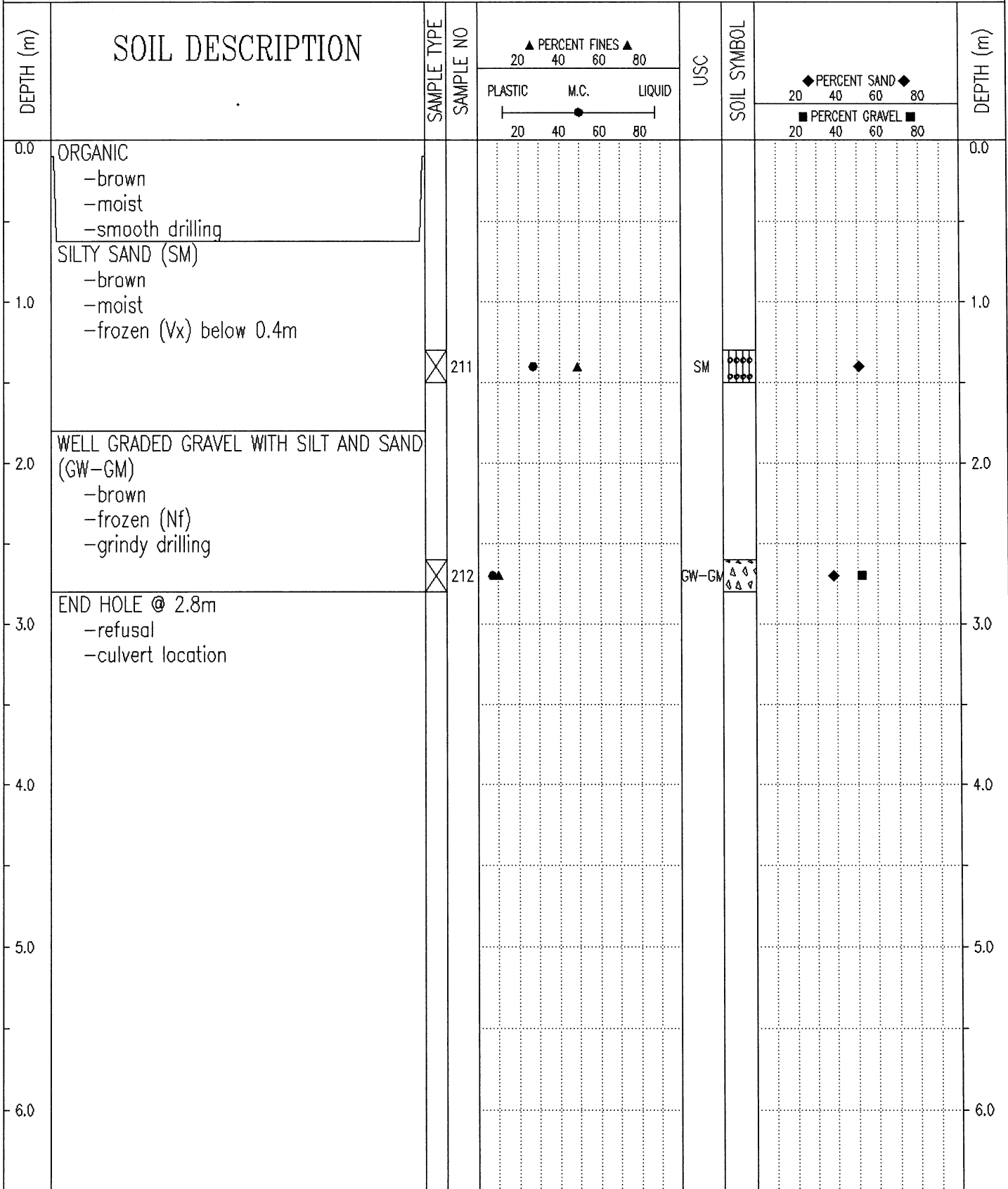
SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 601-128								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1776+650 CENTERLINE		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲			USC	SOIL SYMBOL	◆ PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ORGANIC -brown -moist										0.0	
0.0 - 1.0	WELL GRADED SAND WITH SILT AND GRAVEL (SW-SM) -brown -moist -grindy drilling											
1.0												
2.0												
2.8 - 3.8	-smooth drilling 2.8 to 3.8m											
3.0												
4.0	POORLY GRADED GRAVEL WITH SAND (GP) -grey -moist -grindy drilling below 3.8m -courser material observed below 4.0m END HOLE @ 4.3m -refusal											
4.0												
5.0												
6.0												
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 4.3 m						
				REVIEWED BY:		COMPLETE: 01/06/27						
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 601-129
ENGINEERING CAPITAL	DUKE RV TO QUILL CR.	Project No: 092-202101-0361
MOBILE B40 L 6" AUGER	LOCATION:1776+682 CENTERLINE	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 601-130
ENGINEERING CAPITAL	DUKE RV TO QUILL CR.	Project No: 092-202101-0361
MOBILE B40 L 6" AUGER	LOCATION:1776+682 20m RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



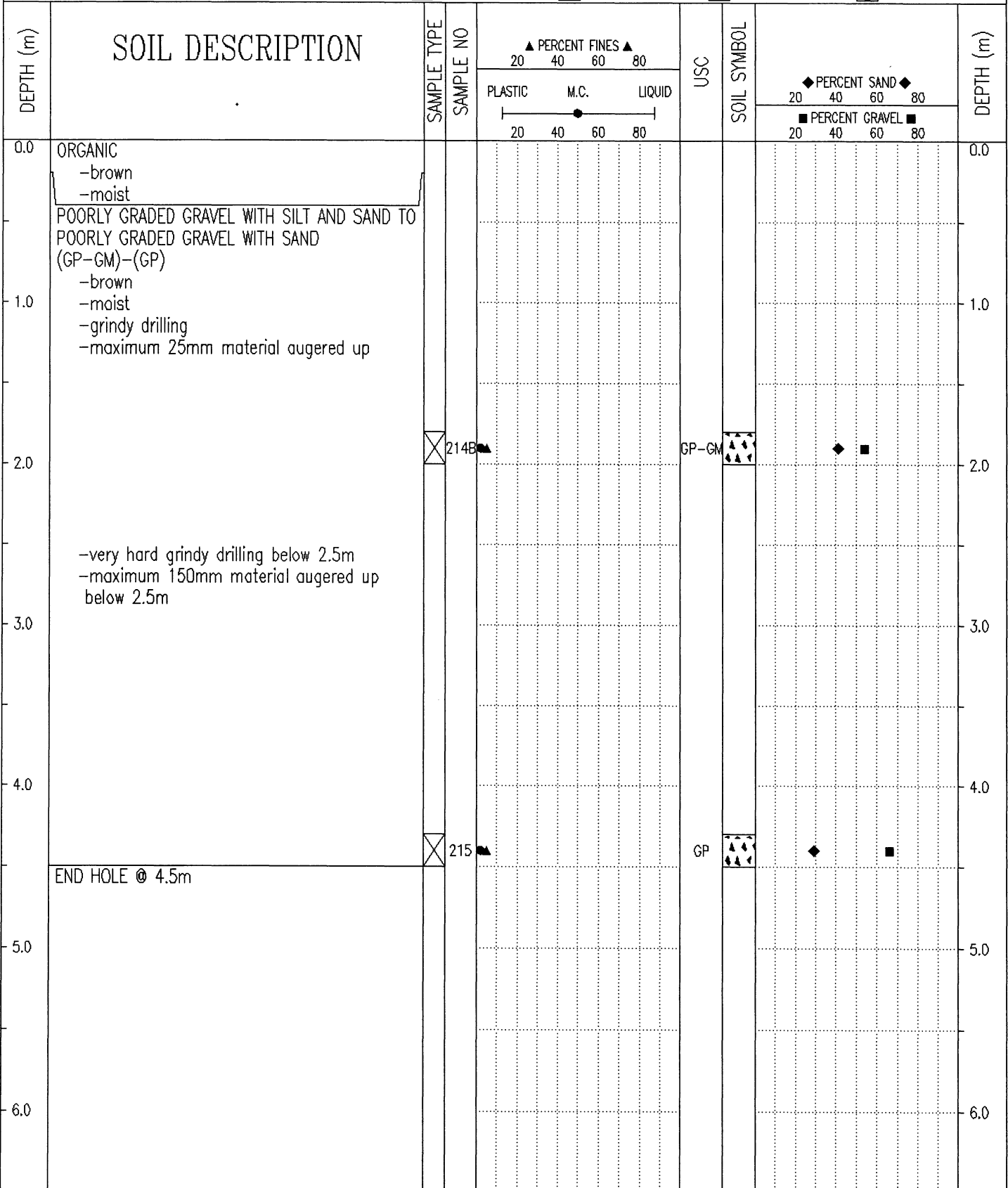
Government of Yukon Transportation Engineering	LOGGED BY: B.B.	COMPLETION DEPTH: 2.8 m
	REVIEWED BY:	COMPLETE: 01/06/27
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 601-140						
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361						
MOBILE B40 L 6" AUGER		LOCATION: 1776+700 35m LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80 PLASTIC M.C. LIQUID 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80		DEPTH (m)
0.0	ORGANIC -brown -moist								0.0	
1.0	SILTY SAND (SM) -brown -frozen (Nf)								1.0	
2.0	POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM) -brown -frozen (Nf) -maximum 50mm material augered up -grindy drilling	<input checked="" type="checkbox"/>	226	●	▲		SM	■	◆	2.0
3.0	END HOLE @ 2.8m -Interceptor ditch	<input checked="" type="checkbox"/>	227	●	▲		GP-GM	■	◆	3.0
4.0										4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 2.8 m				
				REVIEWED BY:		COMPLETE: 01/06/27				
				Fig. No:		Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 601-131							
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361							
MOBILE B40 L 6" AUGER		LOCATION:1776+750 CENTERLINE		ELEVATION: 0.00 (m)							
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER							
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE							
				<input type="checkbox"/> CORE							
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲			USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC -brown -moist										0.0
1.0	POORLY GRADED GRAVEL WITH SILT AND SAND TO WELL GRADED GRAVEL WITH SAND (GP-GM)-(GW) -brown -moist -grindy drilling										1.0
2.0		<input checked="" type="checkbox"/>	213				GP-GM				2.0
3.0											3.0
4.0	-very hard grindy drilling below 3.8m										4.0
5.0	END HOLE @ 4.5m -refusal	<input checked="" type="checkbox"/>	214A				GW				5.0
6.0											6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 4.5 m					
				REVIEWED BY:		COMPLETE: 01/06/27					
				Fig. No:		Page 1 of 1					

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 601-139						
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361						
MOBILE B40 L 6" AUGER		LOCATION: 1776+775 35m LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80		DEPTH (m)
				PLASTIC M.C. LIQUID 20 40 60 80				■ PERCENT GRAVEL ■ 20 40 60 80		
0.0	ORGANIC -brown -moist									0.0
1.0	SILTY SAND -brown -moist									1.0
2.0	WELL GRADED GRAVEL WITH SILT AND SAND (GW-GM) -grey -moist -maximum 50mm material augered up -grindy drilling	<input checked="" type="checkbox"/>	225				GW-GM			2.0
3.0	END HOLE @ 2.8m -Interceptor ditch									3.0
4.0										4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 2.8 m				
				REVIEWED BY:		COMPLETE: 01/06/27				
				Fig. No:		Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 601-132
ENGINEERING CAPITAL	DUKE RV TO QUILL CR.	Project No: 092-202101-0361
MOBILE B40 L 6" AUGER	LOCATION:1776+850 2m RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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	REVIEWED BY:	COMPLETE: 01/06/27
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 601-138								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION:1776+900 35m LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -brown -moist											0.0
1.0	SILTY SAND (SM) -brown -frozen (Nf)	<input checked="" type="checkbox"/>	223	■			SM	◆◆◆◆	■	◆		1.0
2.0	ORGANIC -frozen (Vx)											2.0
3.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Nf) -grindy drilling END HOLE @ 2.8m -Interceptor ditch	<input checked="" type="checkbox"/>	224	▲			SM	◆◆◆◆	■	◆◆		3.0
4.0												4.0
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.				COMPLETION DEPTH: 2.8 m				
				REVIEWED BY:				COMPLETE: 01/06/27				
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 601-133								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1776+950 2m RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -brown -moist											0.0
1.0	POORLY GRADED GRAVEL WITH SAND (GP) -brown -moist -hard grindy drilling											1.0
2.0	-maximum 75mm material augered up below 2.0m											2.0
3.0	END HOLE @ 3.0m -refusal	<input checked="" type="checkbox"/>	216				GP	▲▲▲▲	◆	■		3.0
4.0												4.0
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.				COMPLETION DEPTH: 3.0 m				
				REVIEWED BY:				COMPLETE: 01/06/27				
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 601-137								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION:1777+000 35m LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -brown -moist											0.0
0.0 - 1.0	SILTY SAND (SM) -brown -moist	<input checked="" type="checkbox"/>	220	▲			SM	◆				1.0
1.0 - 2.0	SILTY SAND WITH GRAVEL (SM) -brown -moist -grindy drilling	<input checked="" type="checkbox"/>	221	● ▲			SM	◆ ■				2.0
2.0 - 3.0	-hard, less grindy below 1.8m											
3.0 - 2.8	-frozen (Nf) below 2.6m	<input checked="" type="checkbox"/>	222	● ▲			SM	◆ ■				3.0
3.0 - 2.8	END HOLE @ 2.8m -refusal -Interceptor ditch											2.8
4.0												4.0
5.0												5.0
6.0												6.0

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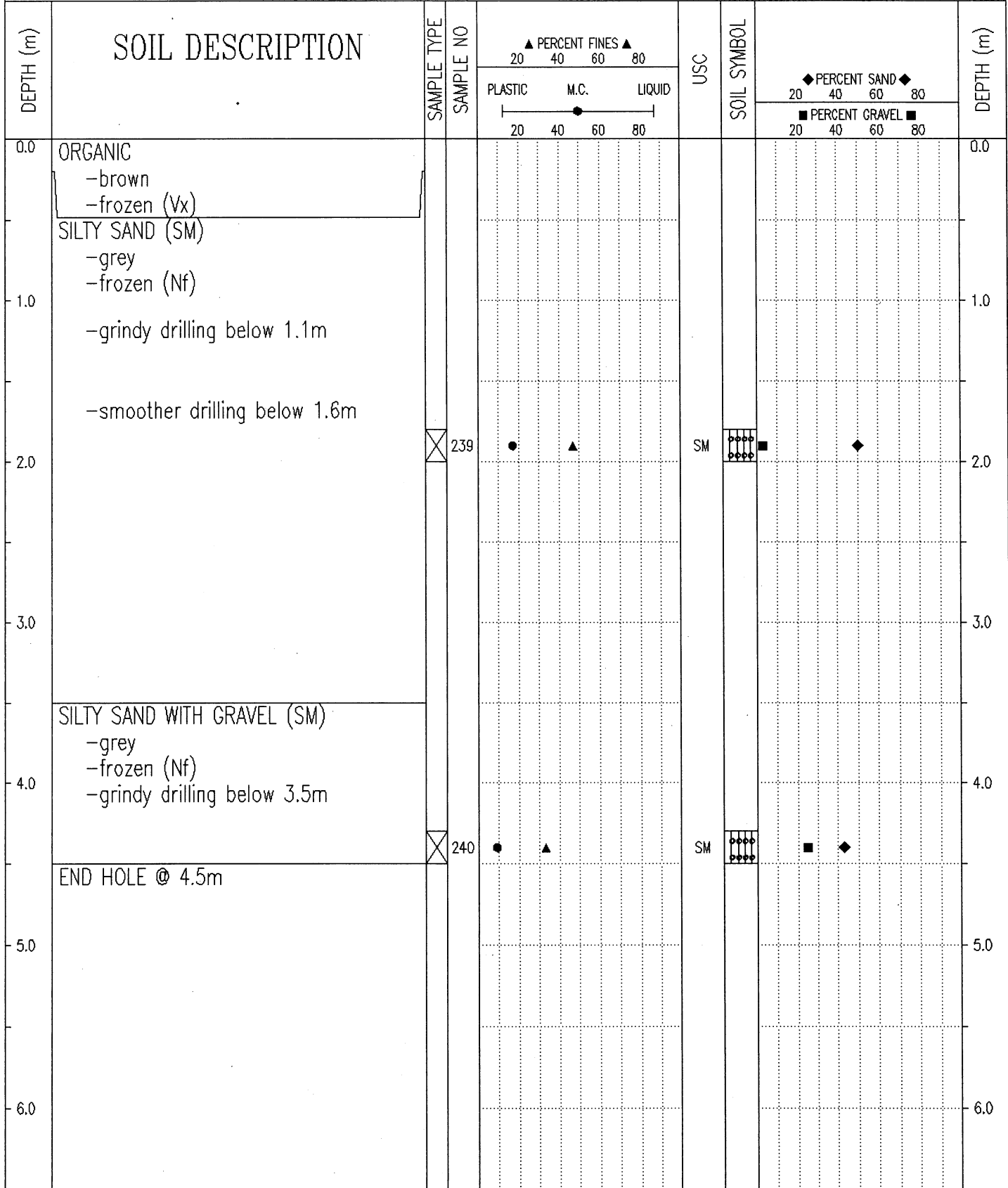
COMPLETION DEPTH: 2.8 m
COMPLETE: 01/06/27
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 601-134								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION:1777+050 2m RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -brown -moist											0.0
1.0	POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM) -brown -moist -grindy drilling -maximum 75mm material augered up											1.0
2.0												2.0
3.0												3.0
4.0												4.0
4.5	END HOLE @ 4.5m	<input checked="" type="checkbox"/>	217					GP-GM				4.5
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.				COMPLETION DEPTH: 4.5 m				
				REVIEWED BY:				COMPLETE: 01/06/27				
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 601-136								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1777+100 35m LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ORGANIC -brown -moist										0.0	
1.0	SILTY SAND WITH GRAVEL (SM) -grey -frozen (Nf) -grindy drilling										1.0	
2.0											2.0	
2.6		<input checked="" type="checkbox"/>	219	●	▲		SM	◆	■		2.6	
3.0	END HOLE @ 2.6m -refusal Note: Interceptor ditch										3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 2.6 m						
				REVIEWED BY:		COMPLETE: 01/06/27						
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 601-135								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1777+150 10m RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ORGANIC -brown -moist										0.0	
1.0	POORLY GRADED GRAVEL WITH SAND (GP) -brown -moist -grindy drilling -maximum 50mm material augered up										1.0	
2.0											2.0	
3.0											3.0	
4.0											4.0	
4.5	END HOLE @ 4.5m	<input checked="" type="checkbox"/>	218				GP	▲▲▲▲	◆	■	4.5	
5.0											5.0	
6.0											6.0	
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 4.5 m						
				REVIEWED BY:		COMPLETE: 01/06/27						
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 602-147
ENGINEERING CAPITAL	DUKE RV TO QUILL CR.	Project No: 092-202101-0361
MOBILE B40 L 6" AUGER	LOCATION:1777+250 CENTRELINE	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.
	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK
	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE



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Fig. No:

COMPLETION DEPTH: 4.5 m
COMPLETE: 01/06/28

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 604-171								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1777+325 35m LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ORGANIC -black -wet										0.0	
1.0	SILT TO SILTY SAND (ML)-(SM) -brown -frozen (Nb) below 0.4m										1.0	
2.0	-refusal #1 @ 1.3m	<input checked="" type="checkbox"/>	274	●		▲	ML	■			2.0	
3.0	-grey below 2.0m -frozen (Nf) below 2.0m -maximum 25mm material augered up										3.0	
3.0	END HOLE @ 2.9m Note: Interceptor ditch	<input checked="" type="checkbox"/>	275	●	▲		SM	■	◆		3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	
Government of Yukon Transportation Engineering				LOGGED BY: B.B.				COMPLETION DEPTH: 2.9 m				
				REVIEWED BY:				COMPLETE: 01/07/05				
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 602-148								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION:1777+350 2m LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -moist											0.0
1.0	SILT, SAND AND ORGANIC -brown -frozen (Nb)											1.0
2.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Nb) -grindy drilling	<input checked="" type="checkbox"/>	241	●	▲		SM	◻◻◻◻◻◻◻◻◻◻	■	◆		2.0
2.0	END HOLE @ 2.0m -refusal											2.0
3.0												3.0
4.0												4.0
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.				COMPLETION DEPTH: 2.0 m				
				REVIEWED BY:				COMPLETE: 01/06/28				
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 604-170								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1777+425 35m LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE					
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -wet											0.0
1.0	SILT (ML) -brown -some organic contamination -frozen (Vx) below 0.3m											1.0
2.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Nf) -maximum 25mm material augered up -grindy drilling											2.0
3.0	END HOLE @ 2.5m -refusal Note: Interceptor ditch											3.0
4.0												4.0
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 2.5 m						
				REVIEWED BY:		COMPLETE: 01/07/05						
				Fig. No:		Page 1 of 1						

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST PIT NO: 602-149						
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361						
MOBILE B40 L 6" AUGER		LOCATION:1777+445 10m LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80		DEPTH (m)
				PLASTIC	M.C.			LIQUID	■ PERCENT GRAVEL ■ 20 40 60 80	
0.0	ORGANIC -black -moist -frozen (Nb) below 0.1m									0.0
1.0										1.0
2.0	SILT -some sand -frozen (Nb)									2.0
3.0	SILTY GRAVEL WITH SAND (GM) -grey -frozen (Nf) -grindy drilling	<input checked="" type="checkbox"/>	242	●	▲		GM	▲▲▲	◆	3.0
4.0	-very hard grindy drilling below 3.6m END HOLE @ 3.8m -refusal									4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 3.8 m COMPLETE: 01/06/28		Page 1 of 1		

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 604-169							
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361							
MOBILE B40 L 6" AUGER		LOCATION:1777+525 35m LT		ELEVATION: 0.00 (m)							
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE											
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲		USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.			20	40		
0.0	ORGANIC -black -wet SILT (ML) -brown -frozen (Nf) below 0.3m										0.0
1.0	ASH -frozen (Nf) ORGANIC -brown -frozen (Vx)	<input checked="" type="checkbox"/>	271				ML				1.0
2.0											2.0
3.0	END HOLE @ 3.0m Note: Interceptor ditch										3.0
4.0											4.0
5.0											5.0
6.0											6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 3.0 m					
				REVIEWED BY:		COMPLETE: 01/07/05					
				Fig. No:				Page 1 of 1			

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST PIT NO: 602-150						
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361						
MOBILE B40 L 6" AUGER		LOCATION:1777+550 20m LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80		DEPTH (m)
				PLASTIC M.C. LIQUID 20 40 60 80				■ PERCENT GRAVEL ■ 20 40 60 80		
0.0	ORGANIC -black -moist -frozen below 0.1m									0.0
1.0	SILT -brown -frozen (Nb)									1.0
	ASH									
2.0	ORGANIC -black -frozen (Nb)									2.0
	SILTY SAND WITH GRAVEL (SM) -grey -frozen (Nf) -grindy drilling									
3.0		<input checked="" type="checkbox"/>	243	●	▲	SM	○○○○	■	◆	3.0
4.0	END HOLE @ 4.0m -refusal Note: Culvert station									4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 4.0 m				
				REVIEWED BY:		COMPLETE: 01/06/28				
				Fig. No:		Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST PIT NO: 602-151						
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361						
MOBILE B40 L 6" AUGER		LOCATION:1777+550 CENTERLINE		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80		DEPTH (m)
				PLASTIC M.C. LIQUID 20 40 60 80				■ PERCENT GRAVEL ■ 20 40 60 80		
0.0	ORGANIC -black -moist									0.0
1.0	ICE AND ORGANIC -some silt -black -frozen									1.0
2.0	SILTY GRAVEL WITH SAND (GM) -grey -frozen (Nf) -grindy drilling -more silt below 2.4m	<input checked="" type="checkbox"/>	244	▲		GM		◆	■	2.0
3.0	-lost sample #245		245							3.0
4.0	END HOLE @ 3.0m -refusal Note: culvert section									4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 3.0 m COMPLETE: 01/06/28				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST PIT NO: 602-152						
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361						
MOBILE B40 L 6" AUGER		LOCATION: 1777+550 20m RT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80		DEPTH (m)
				PLASTIC M.C. LIQUID 20 40 60 80				■ PERCENT GRAVEL ■ 20 40 60 80		
0.0	ORGANIC -black -moist									0.0
1.0	ICE AND ORGANIC -black -frozen below 0.2m									1.0
2.0	SILTY GRAVEL WITH SAND (GM) -grey -frozen (Nf) -grindy drilling									2.0
3.0	END HOLE @ 3.0m -refusal Note: Culvert station	<input checked="" type="checkbox"/>	246	●	▲	GM	▲▲▲	◆	■	3.0
4.0										4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 3.0 m COMPLETE: 01/06/28 Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST PIT NO: 602-153								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION:1777+650 3m LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -moist ASH											0.0
1.0	SILT & ICE (ML) -some organic -olive -frozen below 0.3m -sample 123% moisture	<input checked="" type="checkbox"/>	247				ML					1.0
2.0	ORGANIC -dark brown -frozen (Vx)											2.0
3.0	SILTY GRAVEL WITH SAND (GM) -grey -frozen (Nf) -grindy drilling below 2.8m											3.0
4.0	END HOLE @ 4.5m	<input checked="" type="checkbox"/>	248				GM					4.0
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY:		COMPLETION DEPTH: 4.5 m COMPLETE: 01/06/29						
				Fig. No:		Page 1 of 1						

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 604-168								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION:1777+650 35m LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -wet SILT (ML) -brown -frozen (Vx) below 0.3m											0.0
1.0												1.0
2.0												2.0
3.0	-grindy drilling below 2.7m -observed silt and small gravels on auger from below 2.7m -no sample recovered END HOLE @ 3.0m Notes: surface water flowing into T.H. : Interceptor ditch	<input checked="" type="checkbox"/>	270				ML	◆				3.0
4.0												4.0
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 3.0 m						
				REVIEWED BY:		COMPLETE: 01/07/05						
				Fig. No:		Page 1 of 1						

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 602-154								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1777+750 7m LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ORGANIC -black -moist										0.0	
1.0	ICE AND ORGANIC -some stratified silt -frozen below 0.3m										1.0	
2.0	SILTY SAND WITH GRAVEL (SM) -grey -frozen (Nf) -grindy drilling										2.0	
3.0		<input checked="" type="checkbox"/>	249	▲			SM	◆	■		3.0	
4.0	END HOLE @ 4.0m -refusal										4.0	
5.0											5.0	
6.0											6.0	
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 4.0 m						
				REVIEWED BY:		COMPLETE: 01/06/29						
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 604-167								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0381								
MOBILE B40 L 6" AUGER		LOCATION:1777+750 35m LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -wet SILT WITH SAND (ML) -grey -frozen (Nb) below 0.3m											0.0
1.0		<input checked="" type="checkbox"/>	268			75	ML			55		1.0
2.0												2.0
3.0	SILT (ML) -grey -frozen (Vx) -sample 122% moisture	<input checked="" type="checkbox"/>	269			75	ML			55		3.0
4.0	END HOLE @ 3.0m Note: Interceptor ditch											4.0
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY: Fig. No:				COMPLETION DEPTH: 3.0 m COMPLETE: 01/07/04 Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 602-155						
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361						
MOBILE B40 L 6" AUGER		LOCATION:1777+850 1m LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	20	
0.0	ICE AND ORGANIC -black -frozen below 0.3m									0.0
1.0										1.0
2.0	SILTY GRAVEL WITH SAND (GM) -grey -frozen (Vx) -grindy drilling below 1.5m	<input checked="" type="checkbox"/>	250	●	▲		GM	◆	■	2.0
3.0	-frozen (Nf)	<input checked="" type="checkbox"/>	251	●	▲		GM	◆	■	3.0
4.0	END HOLE @ 3.4m -refusal									4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY:		COMPLETION DEPTH: 3.4 m COMPLETE: 01/06/29				Page 1 of 1
				Fig. No:						

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 604-166
ENGINEERING CAPITAL	DUKE RV TO QUILL CR.	Project No: 092-202101-0361
MOBILE B40 L 6" AUGER	LOCATION:1777+850 35m LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -wet											0.0
1.0	ORGANIC, SILT AND ICE -some sand -grey -frozen below 0.3m											1.0
2.0	-grindy drilling below 2.0m -no samples recovered											2.0
3.0	END HOLE @ 2.6m : Interceptor ditch											3.0
4.0												4.0
5.0												5.0
6.0												6.0

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REVIEWED BY:	COMPLETE: 01/07/04
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 602-156								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION:1777+950		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -moist											0.0
0.0 - 1.0	ICE AND ORGANIC -black -some stratified silt											
2.0	SILTY SAND WITH GRAVEL (SM) -grey -frozen (Nb) -grindy drilling	<input checked="" type="checkbox"/>	252	●	▲		SM	▣▣▣▣	■	◆		
3.0												
4.0	SILT WITH SAND (ML) -grey -frozen (Nb)	<input checked="" type="checkbox"/>	253	●	▲		ML	▣▣▣▣	■	◆		
4.5	END HOLE @ 4.5m											
5.0												
6.0												

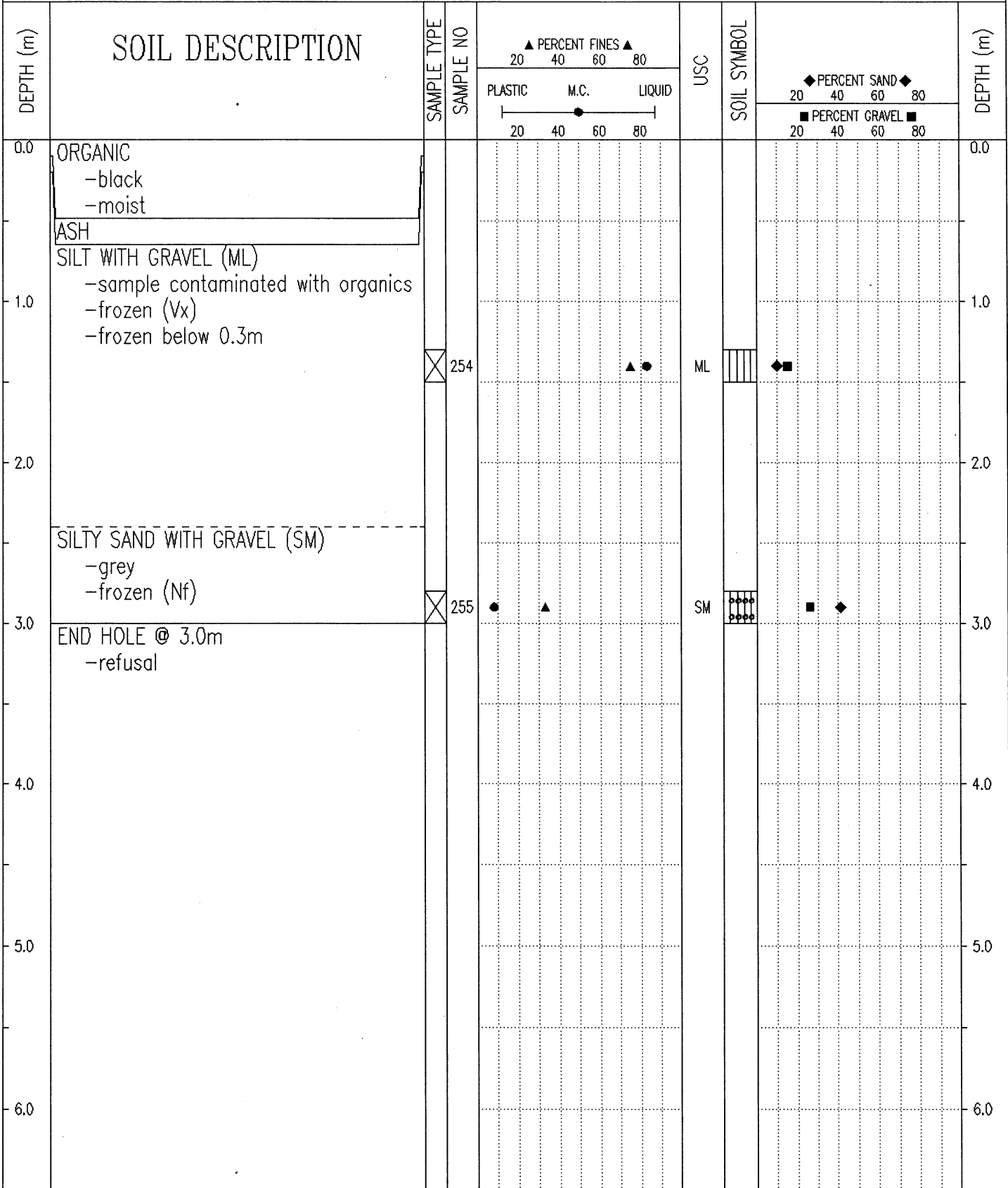
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LOGGED BY: B.B.
REVIEWED BY:
Fig. No:

COMPLETION DEPTH: 4.5 m
COMPLETE: 01/06/29

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 604-165						
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361						
MOBILE B40 L 6" AUGER		LOCATION:1777+950 35m LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	20	
0.0	ORGANIC -black -moist ORGANIC, SILT AND ICE -some sand -grey -frozen below 0.3m									0.0
2.0	SILTY GRAVEL WITH SAND (GM) -grey -frozen (Vx) -maximum 25mm material augered up -grindy drilling									2.0
3.0	END HOLE @ 3.0m Note: Interceptor ditch	<input checked="" type="checkbox"/>	267	●	▲		GM	◆	■	3.0
4.0										4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 3.0 m				
				REVIEWED BY:		COMPLETE: 01/07/04				
				Fig. No:		Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 602-157
ENGINEERING CAPITAL	DUKE RV TO QUILL CR.	Project No: 092-202101-0361
MOBILE B40 L 6" AUGER	LOCATION:1778+050	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.
	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK
	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE



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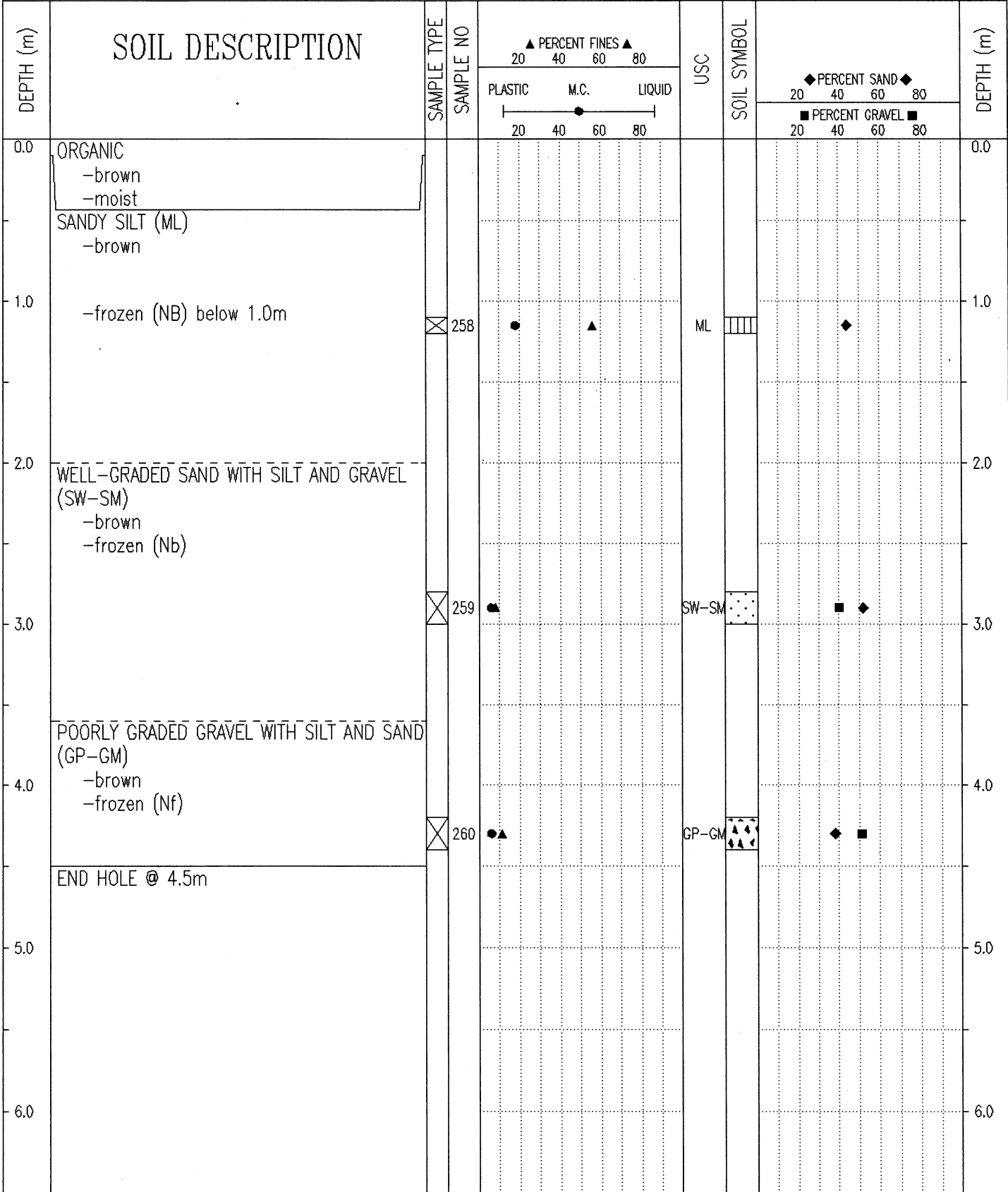
LOGGED BY: B.B.	COMPLETION DEPTH: 3.0 m
REVIEWED BY:	COMPLETE: 01/06/29
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 604-164						
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361						
MOBILE B40 L 6" AUGER		LOCATION:1778+050 35m LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80		DEPTH (m)
				PLASTIC M.C. LIQUID 20 40 60 80				■ PERCENT GRAVEL ■ 20 40 60 80		
0.0	ORGANIC -black -moist									0.0
1.0	ORGANIC, SILT AND ICE -some sand -grey -frozen below 0.3m									1.0
2.0	SILTY GRAVEL WITH SAND (GM) -grey -frozen (Nf) -maximum 75mm material augered up -grindy drilling									2.0
3.0	END HOLE @ 3.0m Note: Interceptor ditch	<input checked="" type="checkbox"/>	266	●	▲	GM		■		3.0
4.0										4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 3.0 m COMPLETE: 01/07/04 Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 602-158						
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361						
MOBILE B40 L 6" AUGER		LOCATION:1778+150 2m LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲		USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			20	40	
0.0	ORGANIC -black -moist									0.0
1.0	ORGANIC & ICE -black									1.0
2.0	SANDY SILT WITH GRAVEL TO SILT (ML) -grey -ice (Vr) -grindy drilling below 1.4m -refusal #1 @ 1.6m	<input checked="" type="checkbox"/>	255	●	▲	ML		◆		2.0
3.0										3.0
4.0										4.0
5.0	-frozen (Vr)	<input checked="" type="checkbox"/>	257	●	▲	ML		◆		5.0
6.0	END HOLE @ 4.5m									6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 4.5 m				
				REVIEWED BY:		COMPLETE: 01/06/29				
				Fig. No:		Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 604-163						
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361						
MOBILE B40 L 6" AUGER		LOCATION: 1778+150 35m LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER						
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE						
				<input type="checkbox"/> CORE						
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	20	
0.0	ORGANIC -black -moist									0.0
1.0	ORGANIC, SILT AND ICE -some sand -grey -smooth drilling									1.0
2.0	SILTY GRAVEL WITH SAND (GM) -grey -frozen (Nf) -grindy drilling									2.0
3.0	END HOLE @ 3.0m Note: Interceptor ditch	<input checked="" type="checkbox"/>	265	●	▲		GM	◆	■	3.0
4.0										4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 3.0 m				
				REVIEWED BY:		COMPLETE: 01/07/04				
				Fig. No:		Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 602-159
ENGINEERING CAPITAL	DUKE RV TO QUILL CR.	Project No: 092-202101-0361
MOBILE B40 L 6" AUGER	LOCATION:1778+250 2m LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 604-162								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION:1778+250 35m LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -moist											0.0
1.0	SILTY SAND -brown -moist											1.0
1.0	SANDY SILT (ML) -grey -frozen (Nb) -grindy drilling	<input checked="" type="checkbox"/>	263				ML	<input type="checkbox"/>				1.0
2.0	SILTY SAND WITH GRAVEL (SM) -grey -frozen (Nf) -smooth drilling	<input checked="" type="checkbox"/>	264				SM	<input type="checkbox"/>				2.0
3.0	END HOLE @ 3.0m Note: Interceptor ditch											3.0
4.0												4.0
5.0												5.0
6.0												6.0

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Fig. No:

COMPLETION DEPTH: 3.0 m

COMPLETE: 01/07/04

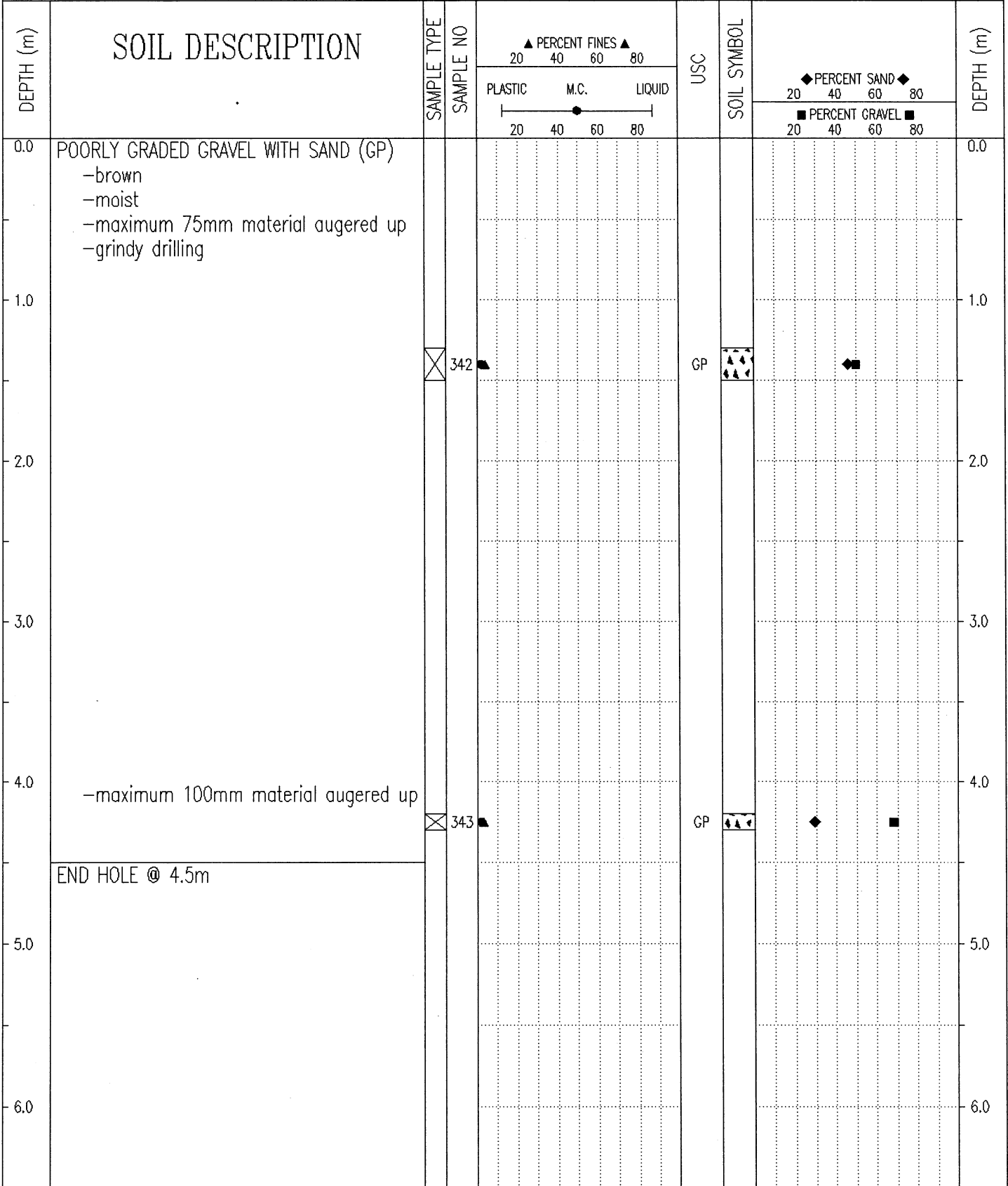
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 606-215							
ENGINEERING CAPITAL		DUKE RV TO QUILL CR		Project No: 092-202101-0361							
MOBILE DRILL B 40 L 6' AUGER		LOCATION: 1778+349 6m LT		ELEVATION: 0.00 (m)							
SAMPLE TYPE		<input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE				
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80		DEPTH (m)	
				PLASTIC	M.C.			LIQUID	■ PERCENT GRAVEL ■ 20 40 60 80		
0.0	POORLY GRADED GRAVEL WITH SILT & SAND TO POORLY GRADED GRAVEL WITH SAND TO POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)-(GP)-(GP-GM) -brown -moist -grindy drilling									0.0	
1.0										1.0	
2.0										2.0	
3.0	-maximum 75mm material augered up	<input checked="" type="checkbox"/>	339	▲			GP-GM	▲▲▲▲	◆	■	3.0
4.0										4.0	
5.0										5.0	
6.0										6.0	
	-maximum 75 mm material augered up	<input checked="" type="checkbox"/>	340	▲			GP	▲▲▲▲	◆	■	3.0
	-maximum 75mm material augered up	<input checked="" type="checkbox"/>	341	▲			GP-GM	▲▲▲▲	◆	■	4.0
	END HOLE @ 4.5m										
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 4.5 m					
				REVIEWED BY:		COMPLETE: 01/07/12					
				Fig. No:						Page 1 of 1	

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 604-161						
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361						
MOBILE B40 L 6" AUGER		LOCATION:1778+350 35m LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80		DEPTH (m)
				PLASTIC M.C. LIQUID 20 40 60 80				■ PERCENT GRAVEL ■ 20 40 60 80		
0.0	ORGANIC -black -moist									0.0
1.0	POORLY GRADED GRAVEL WITH SAND (GP) -grey -moist -maximum 75mm material augered up -grindy drilling	<input checked="" type="checkbox"/>	262			GP	▲▲▲▲	◆	■	1.0
3.0	END HOLE @ 3.0m Note: Interceptor ditch									3.0
4.0										4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 3.0 m COMPLETE: 01/07/04				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 604-160								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION:1778+450 35m LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -moist											0.0
1.0	POORLY GRADED GRAVEL WITH SAND (GP) -grey -maximum 75mm material augered up -grindy drilling below 0.2m	<input checked="" type="checkbox"/>	261					GP				1.0
3.0	END HOLE @ 3.0m Note: Interceptor ditch											3.0
4.0												4.0
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 3.0 m						
				REVIEWED BY:		COMPLETE: 01/07/04						
				Fig. No:		Page 1 of 1						

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 606-216
ENGINEERING CAPITAL	DUKE RV TO QUILL CR	Project No: 092-202101-0361
MOBILE DRILL B 40 L 6' AUGER	LOCATION: 1778+451 16m LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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	REVIEWED BY:	COMPLETE: 01/07/12
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 604-172								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION:1778+550 35m LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black											0.0
1.0	POORLY GRADED GRAVEL WITH SAND (GP) -grey -moist -grindy drilling -maximum 50mm material augered up	<input checked="" type="checkbox"/>	276				GP	▲▲▲▲	◆	■		1.0
2.0	-maximum 75mm material augered up below 2.0m											2.0
3.0	END HOLE @ 2.9m Note: Interceptor ditch											3.0
4.0												4.0
5.0												5.0
6.0												6.0

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Fig. No:

COMPLETION DEPTH: 2.9 m
COMPLETE: 01/07/05

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 606-217						
ENGINEERING CAPITAL		DUKE RV TO QUILL CR		Project No: 092-202101-0361						
MOBILE DRILL B 40 L 6' AUGER		LOCATION: 1778+551 13m LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80 PLASTIC M.C. LIQUID -----●----- 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80		DEPTH (m)
0.0	POORLY GRADED GRAVEL WITH SAND (GP) -brown -moist -grindy drilling								0.0	
1.0									1.0	
2.0									2.0	
3.0									3.0	
4.0									4.0	
4.5	-maximum 75mm material augered up	<input checked="" type="checkbox"/>	344				GP	▲▲▲▲◆■	4.5	
5.0									5.0	
6.0									6.0	
4.5	-maximum 75mm material augered up	<input checked="" type="checkbox"/>	345				GP	▲▲▲◆■	4.5	
4.5	END HOLE @ 4.5m								4.5	
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 4.5 m COMPLETE: 01/07/12		Page 1 of 1		

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 606-218								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR		Project No: 092-202101-0361								
MOBILE DRILL B 40 L 6' AUGER		LOCATION: 1778+650 2m LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC -brown -moist SILTY SAND POORLY GRADED GRAVEL WITH SAND (GP) -brown -moist -maximum 50mm material augered up -grindy drilling	<input checked="" type="checkbox"/>	346				GP	◆	◆	■	0.0	
1.0											1.0	
2.0											2.0	
3.0											3.0	
4.0	-maximum 75mm material augered up	<input checked="" type="checkbox"/>	347				GP	◆	◆	■	4.0	
5.0	END HOLE @ 4.5m										5.0	
6.0											6.0	
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 4.5 m COMPLETE: 01/07/12		Page 1 of 1				

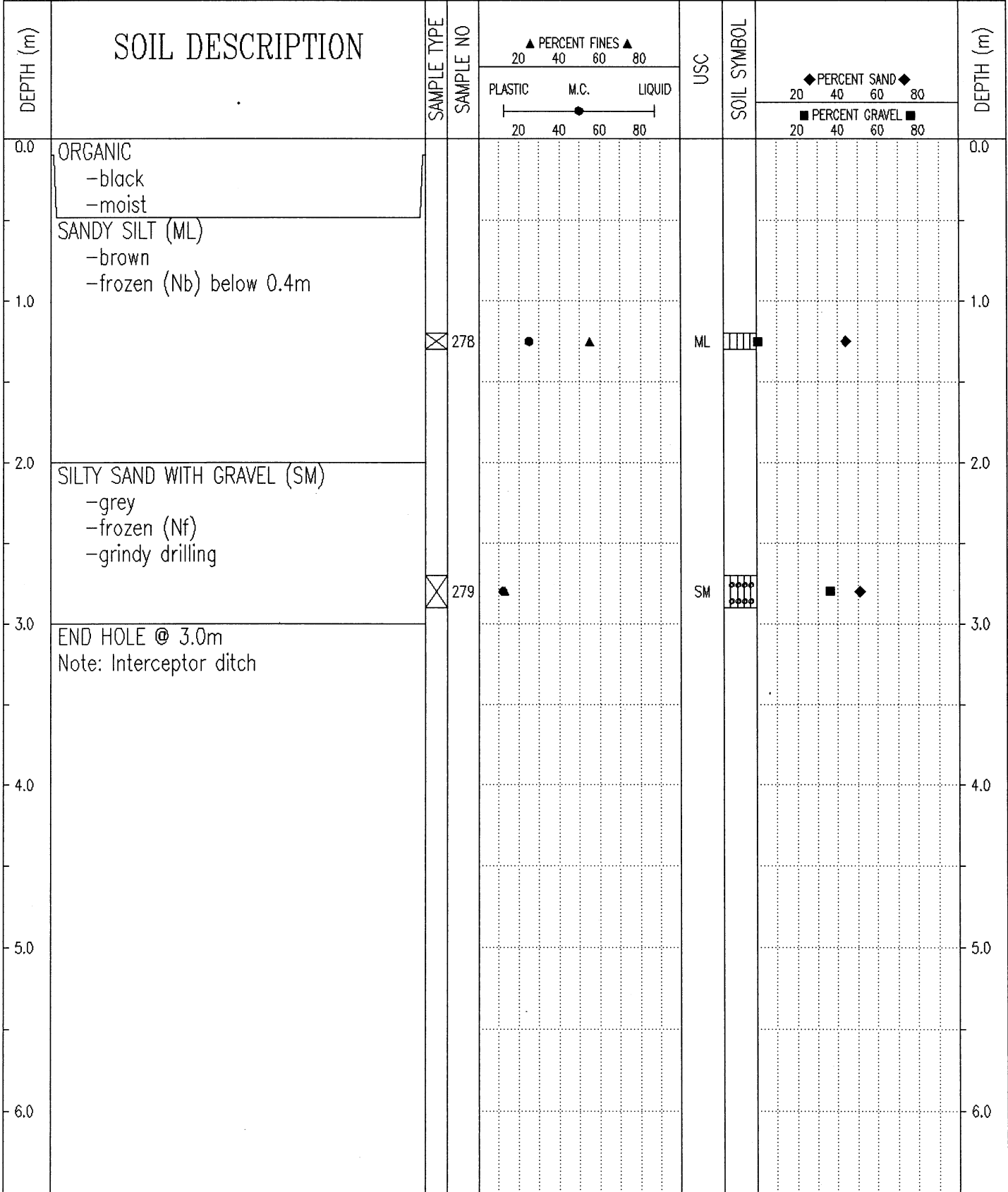
SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 604-173
ENGINEERING CAPITAL	DUKE RV TO QUILL CR.	Project No: 092-202101-0361
MOBILE B40 L 6" AUGER	LOCATION:1778+650 35m LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ORGANIC -black -moist										0.0	
0.0 - 1.0	POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM) -grey -moist											
1.0	-grindy drilling below 0.3m -maximum 25mm material augered up -sand layer trace of silt 1.2-1.4m -smooth drilling 1.2-1.4m -smooth hard drilling below 1.4m	<input checked="" type="checkbox"/>	277	▲			GP-GM	◆	■		1.0	
3.0	END HOLE @ 3.0m Note: Interceptor ditch										3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	

Government of Yukon Transportation Engineering	LOGGED BY: B.B.	COMPLETION DEPTH: 3.0 m
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	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 606-219								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR		Project No: 092-202101-0361								
MOBILE DRILL B 40 L 6' AUGER		LOCATION: 1778+749 2m RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -brown -moist											0.0
1.0	POORLY GRADED GRAVEL WITH SAND (GP) -brown -moist -maximum 25mm material augered up -grindy drilling	<input checked="" type="checkbox"/>	348				GP	◆	◆	◆		1.0
2.0												2.0
3.0												3.0
4.0	-maximum 75mm material augered up	<input checked="" type="checkbox"/>	349				GP	◆	◆	◆		4.0
5.0	END HOLE @ 4.5m											5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 4.5 m						
				REVIEWED BY:		COMPLETE: 01/07/12						
				Fig. No:				Page 1 of 1				

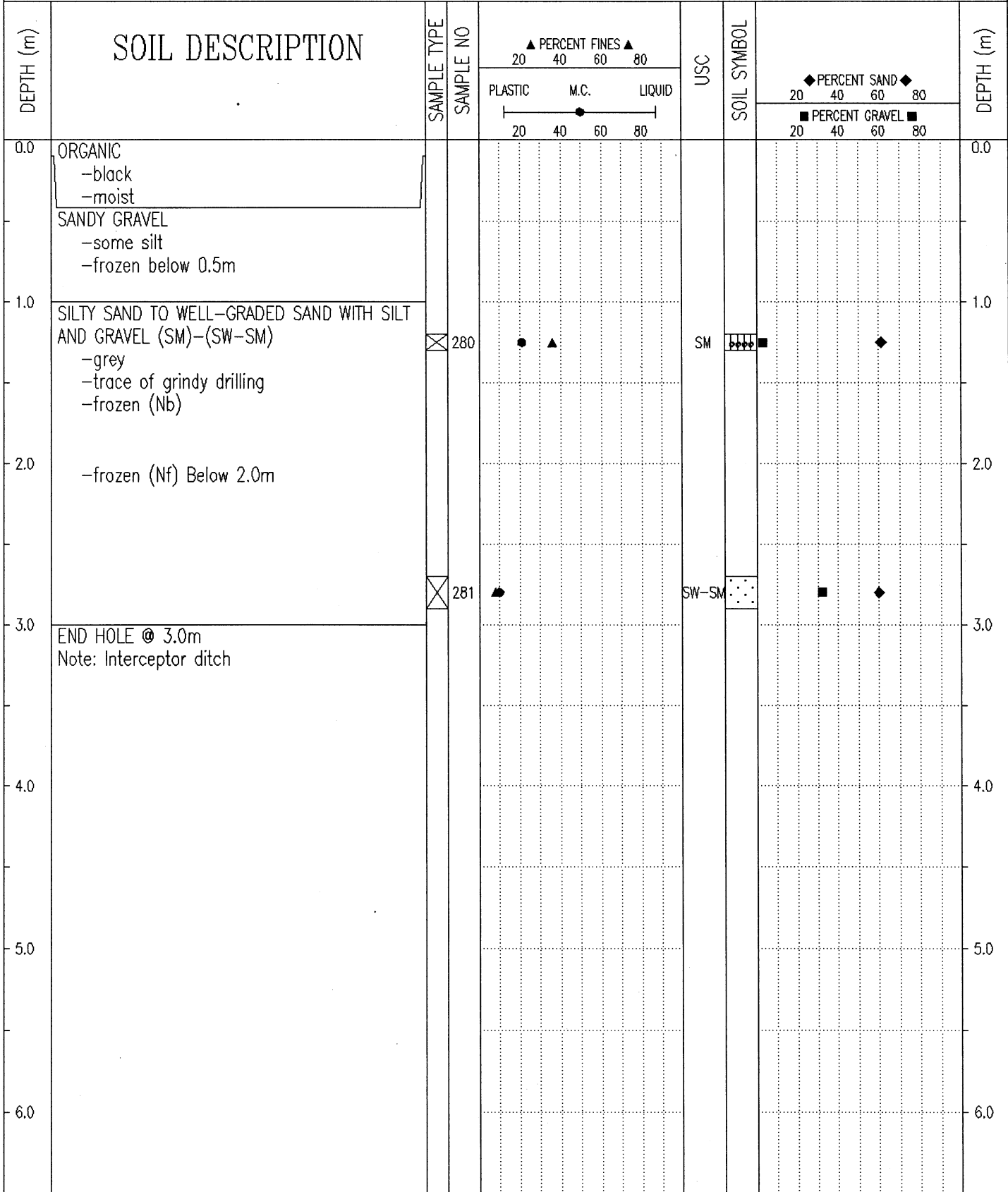
SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 604-174
ENGINEERING CAPITAL	DUKE RV TO QUILL CR.	Project No: 092-202101-0361
MOBILE B40 L 6" AUGER	LOCATION: 1778+750 32m LT	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE	



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	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 606-220								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR		Project No: 092-202101-0361								
MOBILE DRILL B 40 L 6' AUGER		LOCATION: 1778+849 2m RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -brown -moist											0.0
	SAND -some silt											
1.0	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM) -brown -moist -grindy drilling											1.0
2.0												2.0
3.0												3.0
4.0												4.0
	-maximum 100mm material augered up		350				SW-SM					
	END HOLE @ 4.5m											
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.				COMPLETION DEPTH: 4.5 m				
				REVIEWED BY:				COMPLETE: 01/07/12				
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 604-175
ENGINEERING CAPITAL	DUKE RV TO QUILL CR.	Project No: 092-202101-0361
MOBILE B40 L 6" AUGER	LOCATION:1778+850 32m LT	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.
	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK
	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE



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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 606-221								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR		Project No: 092-202101-0361								
MOBILE DRILL B 40 L 6' AUGER		LOCATION: 1778+949 3m LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -brown -moist SAND -some silt											0.0
1.0	POORLY GRADED GRAVEL WITH SAND (GP) -brown -moist -maximum 50mm material augered up -grindy drilling	<input checked="" type="checkbox"/>	351				GP	▲▲▲	◆	■		1.0
2.0												2.0
3.0												3.0
4.0	-maximum 100mm material augered up	<input checked="" type="checkbox"/>	352				GP	▲▲▲	◆	■		4.0
5.0	END HOLE @ 4.5m											5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 4.5 m						
				REVIEWED BY:		COMPLETE: 01/07/12						
				Fig. No:		Page 1 of 1						

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 604-176						
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361						
MOBILE B40 L 6" AUGER		LOCATION:1778+950 32m LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲		USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	PERCENT GRAVEL ■	
0.0	ORGANIC -black -moist									0.0
1.0	SILTY SAND WITH GRAVEL (SM) -brown -moist -grindy drilling below 1.0m -frozen below 1.1m	<input checked="" type="checkbox"/>	282	●	▲		SM	■	◆	1.0
2.0	POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM) -grey -frozen (Nf) -maximum 50mm material augered up									2.0
3.0	END HOLE @ 3.0m Note: Interceptor ditch	<input checked="" type="checkbox"/>	283	●			GP-GM	■	◆	3.0
4.0										4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 3.0 m				
				REVIEWED BY:		COMPLETE: 01/07/05				
				Fig. No:		Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 606-222						
ENGINEERING CAPITAL		DUKE RV TO QUILL CR		Project No: 092-202101-0361						
MOBILE DRILL B 40 L 6' AUGER		LOCATION: 1779+034 4m LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80		DEPTH (m)
				PLASTIC	M.C.			LIQUID	■ PERCENT GRAVEL ■ 20 40 60 80	
0.0	ORGANIC -black -moist									0.0
	SAND -some silt									
1.0	WELL TO POORLY GRADED GRAVEL WITH SAND (GW)-(GP) -brown -moist -maximum 50mm material augered up -grindy drilling	<input checked="" type="checkbox"/>	353			GW	GW	◆	■	1.0
2.0										2.0
3.0										3.0
4.0	-maximum 100mm material augered up	<input checked="" type="checkbox"/>	354			GP	GP	◆	■	4.0
5.0	END HOLE @ 4.5m									5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 4.5 m COMPLETE: 01/07/12		Page 1 of 1		

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 604-177						
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361						
MOBILE B40 L 6" AUGER		LOCATION: 1779+050 32m LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80		DEPTH (m)
				PLASTIC M.C. LIQUID 20 40 60 80				■ PERCENT GRAVEL ■ 20 40 60 80		
0.0	ORGANIC -black -moist									0.0
1.0	POORLY GRADED GRAVEL WITH SAND (GP) -grey -maximum 50mm material augered up -frozen (Nf) below 0.5m	<input checked="" type="checkbox"/>	284				GP			1.0
3.0	END HOLE @ 3.0m Note: Interceptor ditch									3.0
4.0										4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 3.0 m COMPLETE: 01/07/05		Page 1 of 1		

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 604-178							
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361							
MOBILE B40 L 6" AUGER		LOCATION: 1779+150 32m LT		ELEVATION: 0.00 (m)							
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER							
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE							
				<input type="checkbox"/> CORE							
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲			USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC -black -moist										0.0
1.0	WELL GRADED SAND WITH SILT AND GRAVEL (SW-SM) -brown -moist -grindy drilling below 1.0m	<input checked="" type="checkbox"/>	285				SW-SM				1.0
2.0	-frozen below 1.6m										2.0
3.0	SILT (ML) -brown -frozen (Nf)	<input checked="" type="checkbox"/>	286				ML				3.0
4.0	END HOLE @ 3.0m Note: Interceptor ditch										4.0
5.0											5.0
6.0											6.0

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COMPLETION DEPTH: 3.0 m

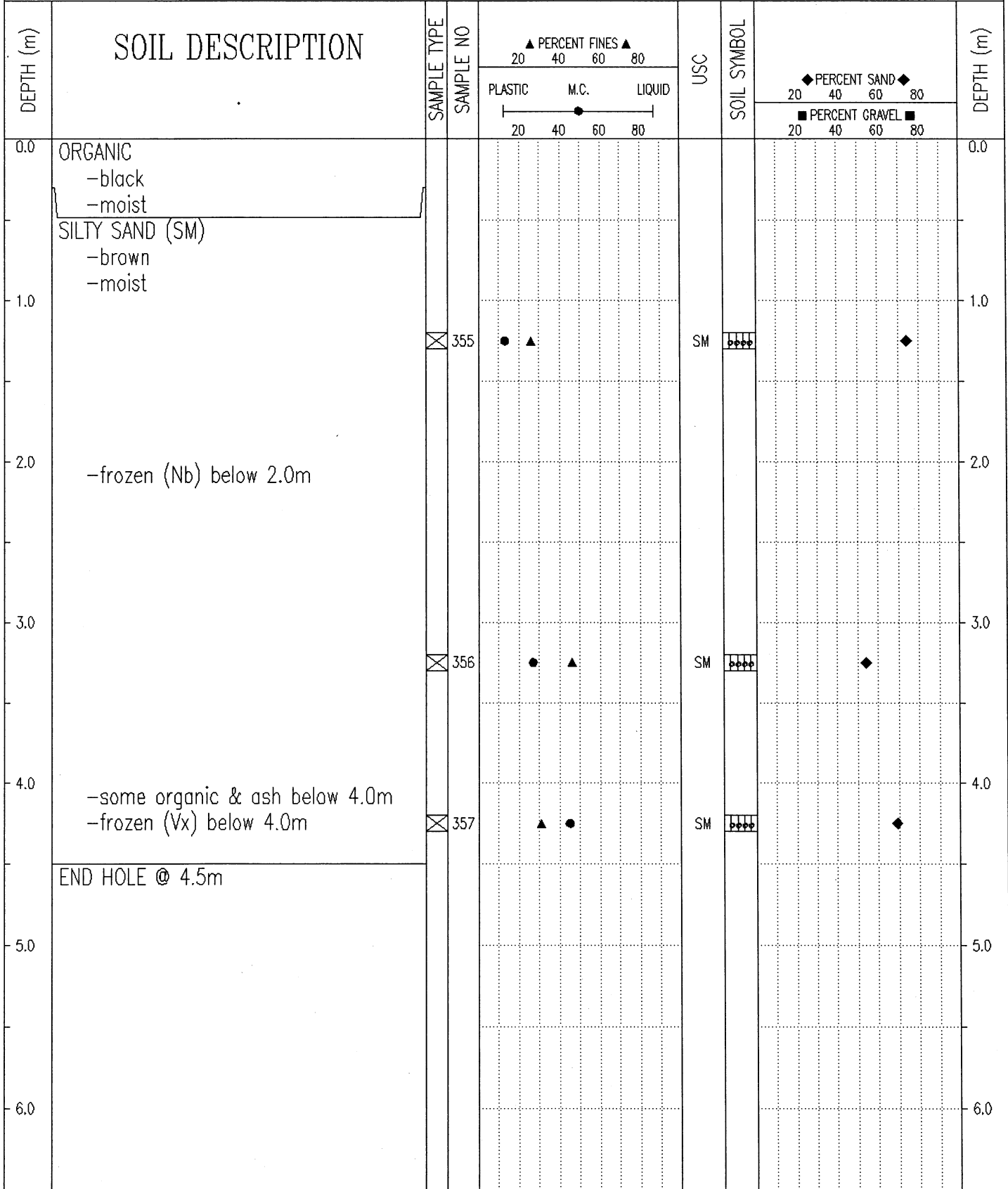
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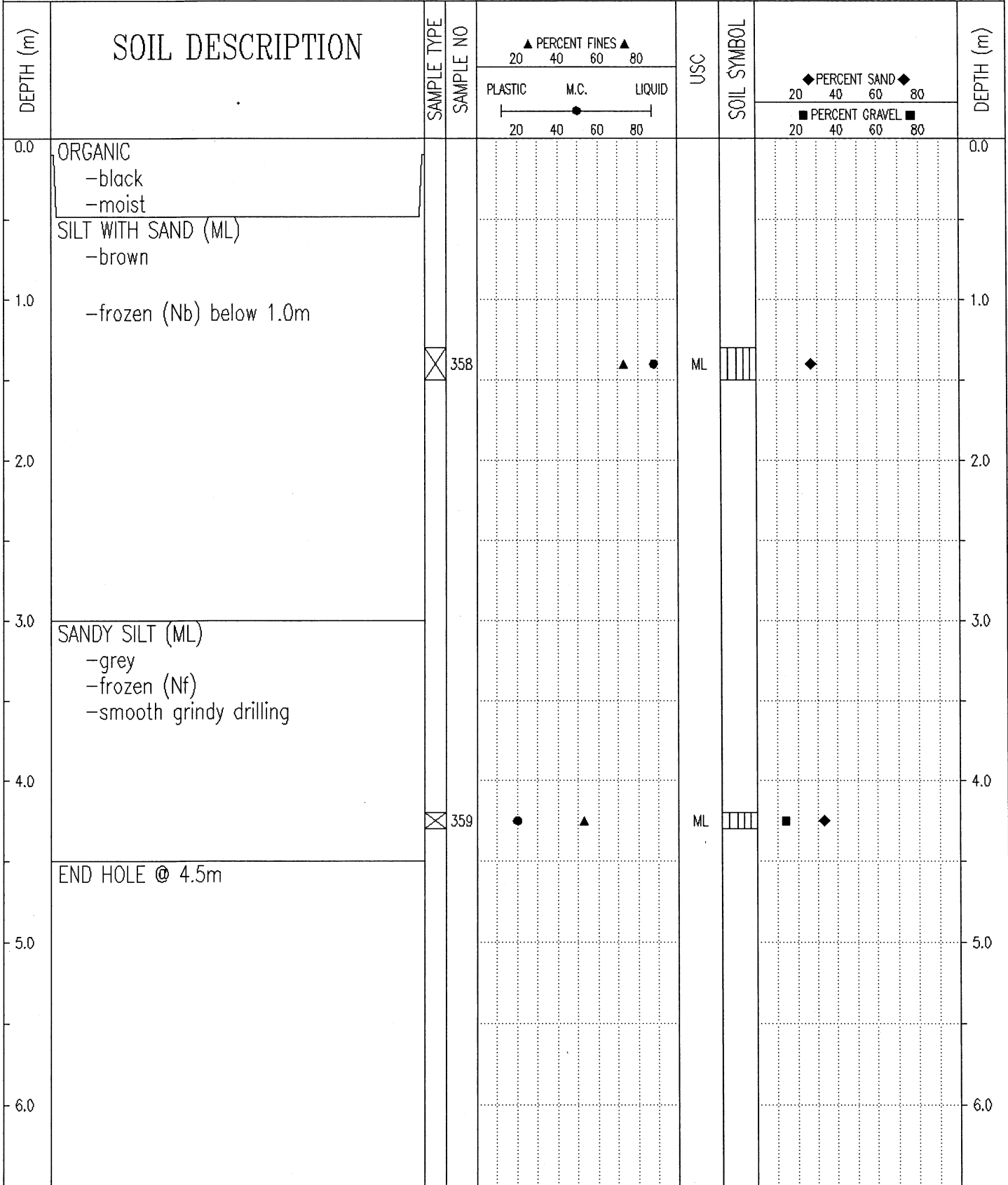
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SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 606-223
ENGINEERING CAPITAL	DUKE RV TO QUILL CR	Project No: 092-202101-0361
MOBILE DRILL B 40 L 6' AUGER	LOCATION: 1779+154 3m RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 606-224
ENGINEERING CAPITAL	DUKE RV TO QUILL CR	Project No: 092-202101-0361
MOBILE DRILL B 40 L 6' AUGER	LOCATION: 1779+192 7m LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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	REVIEWED BY:	COMPLETE: 01/07/12
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 606-225								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR		Project No: 092-202101-0361								
MOBILE DRILL B 40 L 6' AUGER		LOCATION: 1779+192 20m LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)	
				PLASTIC	M.C.	LIQUID			20	40		60
				20	40	60	80		20	40	60	80
				20	40	60	80		20	40	60	80
0.0	ORGANIC -black -moist											0.0
1.0	SAND -some silt -frozen below 0.6m											1.0
1.0	SANDY SILT (ML) -brown -frozen (Nb)	<input checked="" type="checkbox"/>	360		55	65		ML		65		1.5
2.0	ORGANIC, SAND, & SILT -some ash -some ice											2.0
4.0	SANDY SILT (ML) -grey -frozen (Vx) -smooth grindy drilling	<input checked="" type="checkbox"/>	361		55	65		ML	65	65		4.0
5.0	END HOLE @ 4.5m											5.0
6.0												6.0

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COMPLETION DEPTH: 4.5 m

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Fig. No:

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 606-226									
ENGINEERING CAPITAL		DUKE RV TO QUILL CR		Project No: 092-202101-0361									
MOBILE DRILL B 40 L 6' AUGER		LOCATION: 1779+192 19m RT		ELEVATION: 0.00 (m)									
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER									
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE									
				<input type="checkbox"/> CORE									
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PLASTICITY INDEX			USC	SOIL SYMBOL	PERCENT SAND			DEPTH (m)	
				PLASTIC	M.C.	LIQUID			20	40	60		80
0.0	ORGANIC -black -moist												0.0
	ASH												
	SAND & SILT -with ice -frozen below 0.5m												
1.0													1.0
	SILTY SAND WITH GRAVEL TO SANDY SILT (SM)-(ML) -brown -frozen (Vx) -grindy drilling	<input checked="" type="checkbox"/>	362	●	▲		SM	▣	◆				
2.0													2.0
	-grey below 2.0m -frozen (Nf) below 2.0m	<input checked="" type="checkbox"/>	363	●	▲		ML	▣	■	◆			
3.0	END HOLE @ 2.5m -refusal												3.0
4.0													4.0
5.0													5.0
6.0													6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 2.5 m							
				REVIEWED BY:		COMPLETE: 01/07/12							
				Fig. No:		Page 1 of 1							

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 604-179
ENGINEERING CAPITAL	DUKE RV TO QUILL CR.	Project No: 092-202101-0361
MOBILE B40 L 6" AUGER	LOCATION:1779+250 32m LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -moist											0.0
1.0	SILTY SAND (SM) -brown -frozen (Nb) below 0.4m											1.0
2.0	ICE AND SILT											2.0
3.0	ORGANIC -brown -frozen (Vx)											3.0
3.0	END HOLE @ 3.2m Note: Interceptor ditch											3.0
4.0												4.0
5.0												5.0
6.0												6.0

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	REVIEWED BY:	COMPLETE: 01/07/05
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SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 606-227
ENGINEERING CAPITAL	DUKE RV TO QUILL CR	Project No: 092-202101-0361
MOBILE DRILL B 40 L 6' AUGER	LOCATION: 1779+295 1m LT	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.
	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK
	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC -black -moist										0.0	
0.5	ASH -frozen -smooth drilling											
1.0	SANDY SILT (ML) -brown -frozen (Vx) -grindy drilling	<input checked="" type="checkbox"/>	364				ML				1.0	
2.0	SANDY SILTY GRAVELLY MATERIAL -very difficult grindy drilling -no sample recovered										2.0	
3.0	END HOLE @ 2.6m -refusal										3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	

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SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 606-228
ENGINEERING CAPITAL	DUKE RV TO QUILL CR	Project No: 092-202101-0361
MOBILE DRILL B 40 L 6' AUGER	LOCATION: 1779+295 20m LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	80	
0.0	ORGANIC -black -moist									0.0	
0.0 - 1.0	SILT (ML) -brown -frozen (Vx) below 0.3m										
1.0 - 2.0	-sample 365 - 109% moisture -very difficult grindy drilling below 1.7m	<input checked="" type="checkbox"/>	365				▲ ● ML	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
2.0	END HOLE @ 2.0m -refusal -rock dust on bit Note: Outlet drillsite not accessible									2.0	
3.0										3.0	
4.0										4.0	
5.0										5.0	
6.0										6.0	

Government of Yukon Transportation Engineering	LOGGED BY: B.B.	COMPLETION DEPTH: 2.0 m
	REVIEWED BY:	COMPLETE: 01/07/13
	Fig. No:	Page 1 of 1

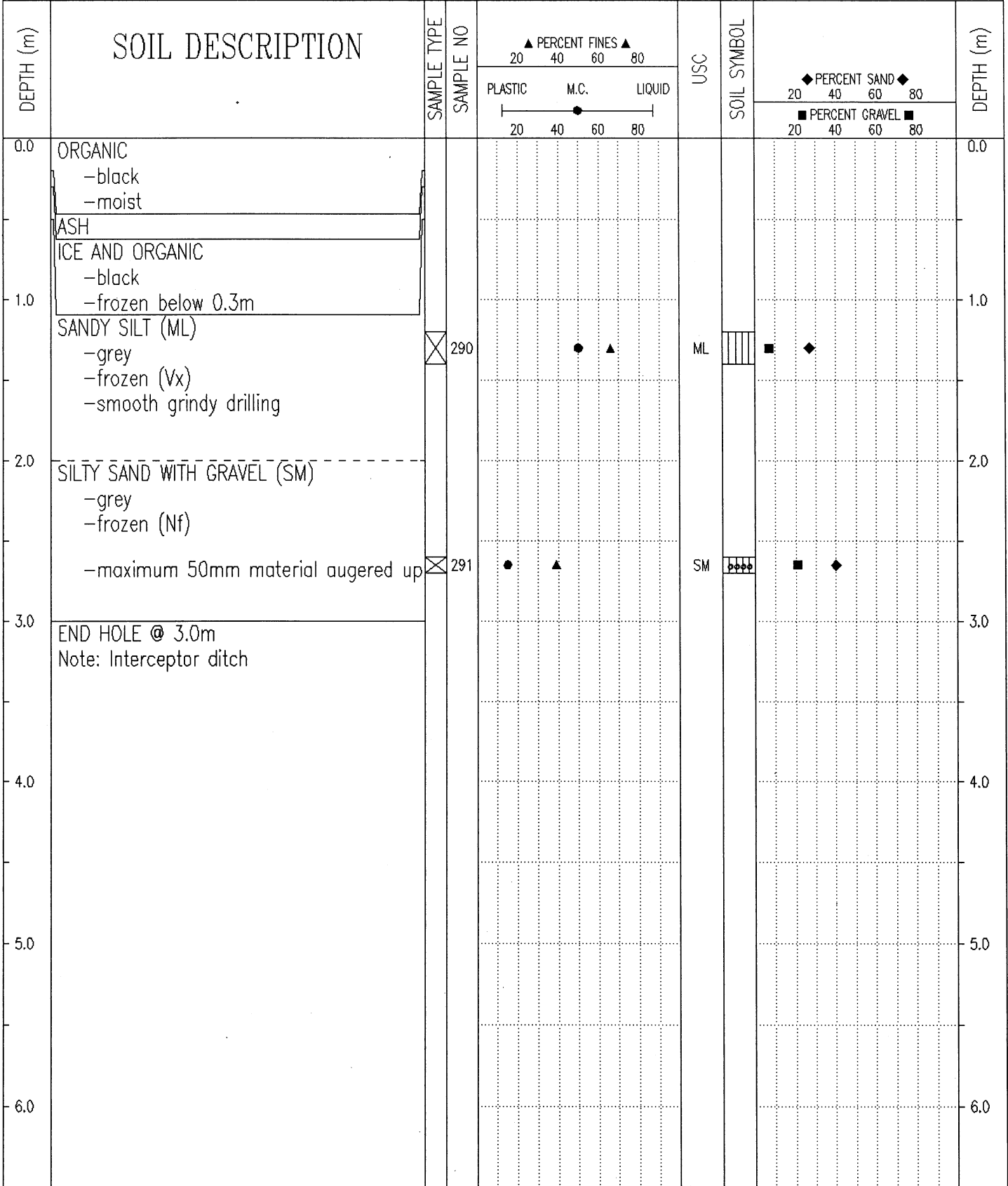
SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 604-180								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION:1779+331 35m LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -moist ASH SANDY SILT -brown -frozen (Vx) below 0.5m											0.0
1.0	SILTY SAND WITH GRAVEL TO SILTY GRAVEL WITH SAND (SM)-(GM) -grey -frozen (Nb) -grindy drilling	<input checked="" type="checkbox"/>	288	●	▲		SM	◆◆◆◆	■◆			1.0
2.0	-frozen (Nf) BELOW 2.0m											2.0
3.0	END HOLE @ 3.0m Note: Interceptor ditch	<input checked="" type="checkbox"/>	289	●	▲		GM	◆◆◆◆	■◆			3.0
4.0												4.0
5.0												5.0
6.0												6.0

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COMPLETION DEPTH: 3.0 m
COMPLETE: 01/07/06

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 604-181
ENGINEERING CAPITAL	DUKE RV TO QUILL CR.	Project No: 092-202101-0361
MOBILE B40 L 6" AUGER	LOCATION: 1779+448 36m LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 604-182						
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361						
MOBILE B40 L 6" AUGER		LOCATION: 1779+550 32m LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	20	
0.0	ORGANIC -black -moist									0.0
1.0	SILT -some sand -brown -frozen (Nb) below 0.3m									1.0
2.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Nb) -maximum 50mm material augered up -grindy drilling	<input checked="" type="checkbox"/>	292	●	▲		SM	◆		2.0
3.0	-frozen (NF) below 2.5m	<input checked="" type="checkbox"/>	293	●	▲		SM	◆		3.0
4.0	END HOLE @ 3.0m Note: Interceptor ditch									4.0
5.0										5.0
6.0										6.0
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 605-183								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1779+619 34m LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ORGANIC -black -moist										0.0	
1.0	SILTY SAND WITH GRAVEL (SM) -grey -maximum 50mm material augered up -frozen (Vx) below 0.3m	<input checked="" type="checkbox"/>	294	●	▲		SM	■■■	◆		1.0	
2.0	-frozen (Nb) below 2.0m										2.0	
3.0	END HOLE @ 3.0m	<input checked="" type="checkbox"/>	295	●	▲		SM	■■■	◆		3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	
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				Fig. No:		Page 1 of 1						

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 605-184						
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361						
MOBILE B40 L 6" AUGER		LOCATION: 1779+706 31m LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE			
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80		DEPTH (m)
				PLASTIC	M.C.			LIQUID	■ PERCENT GRAVEL ■ 20 40 60 80	
0.0	ORGANIC -black -moist									0.0
	ASH									
1.0	SILTY GRAVEL WITH SAND TO SILTY SAND WITH GRAVEL (GM)-(SM) -grey -maximum 50mm material augered up -frozen (Vx) below 0.3m -grindy drilling below 0.3m	<input checked="" type="checkbox"/>	296	●	▲		GM	◆	■	1.0
2.0										2.0
3.0	-frozen (Nf) below 2.5m									3.0
	END HOLE @ 3.0m	<input checked="" type="checkbox"/>	297	●	▲		SM	■	◆	3.0
4.0										4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 3.0 m COMPLETE: 01/07/09 Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 605-185									
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361									
MOBILE B40 L 6" AUGER		LOCATION: 1779+793 36m LT		ELEVATION: 0.00 (m)									
SAMPLE TYPE		<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE											
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)	
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■				
				20	40	60	80		20	40	60	80	
0.0	ORGANIC -black -moist PEAT -brown -frozen (Nb)												0.0
1.0	SANDY SILT WITH GRAVEL (ML) -grey -frozen (Nb) -grindy drilling below 1.0m	<input checked="" type="checkbox"/>	298	●	▲		ML	▨	■	◆			1.0
2.0	SILTY SAND WITH GRAVEL (SM) -grey -frozen (Nf)	<input checked="" type="checkbox"/>	299	●	▲		SM	▨	■		◆		2.0
3.0	END HOLE @ 3.0m												3.0
4.0													4.0
5.0													5.0
6.0													6.0

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COMPLETION DEPTH: 3.0 m

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 605-186							
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361							
MOBILE B40 L 6" AUGER		LOCATION: 1780+000 32m LT		ELEVATION: 0.00 (m)							
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE											
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲			USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC -black -moist ASH SILT -brown -moist										0.0
1.0	SILTY GRAVEL WITH SAND (GM) -grey -moist -maximum 50mm material augered up -grindy drilling below 1.0m	<input checked="" type="checkbox"/>	300	●	▲		GM	◄▲▲	◆	■	
2.0	SILTY SAND WITH GRAVEL (SM) -grey -wet										2.0
3.0	END HOLE @ 3.0m	<input checked="" type="checkbox"/>	301	●	▲		SM	◄◄◄◄	◆	■	3.0
4.0											4.0
5.0											5.0
6.0											6.0

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 605-187								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1780+100 36m LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ORGANIC -black -moist										0.0	
1.0	SILTY SAND WITH GRAVEL (SM) -grey -moist -maximum 50mm material augered up -grindy drilling below 0.8m	<input checked="" type="checkbox"/>	302	●	▲		SM	●●●●	◆	■	1.0	
2.0											2.0	
3.0	-frozen (Nf) below 2.2m										3.0	
3.0	END HOLE @ 3.0m	<input checked="" type="checkbox"/>	303	●	▲		SM	●●●●	◆	■	3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	
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				REVIEWED BY:		COMPLETE: 01/07/09						
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 605-188						
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361						
MOBILE B40 L 6" AUGER		LOCATION: 1780+200 30m LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	20	
0.0	ORGANIC -black -moist									0.0
	ASH									
1.0	ORGANIC AND ICE AND SILT -frozen									1.0
2.0	SILTY SAND WITH GRAVEL (SM) -grey -frozen (Nf) -grindy drilling									2.0
3.0	END HOLE @ 3.0m	<input checked="" type="checkbox"/>	304	●	▲	SM	▣▣▣▣ ▣▣▣▣	■	◆	3.0
4.0										4.0
5.0										5.0
6.0										6.0
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 605-189						
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361						
MOBILE B40 L 6" AUGER		LOCATION: 1780+300 36m LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80		DEPTH (m)
				PLASTIC	M.C.			LIQUID	■ PERCENT GRAVEL ■ 20 40 60 80	
0.0	ORGANIC -black -moist									0.0
	ASH -frozen									
1.0	ORGANIC, ICE AND SILT									1.0
2.0	SILTY SAND WITH GRAVEL (SM) -grey -frozen (Vx) -grindy drilling									2.0
3.0	END HOLE @ 3.0m	<input checked="" type="checkbox"/>	305	●	▲	SM	◻◻◻◻◻◻◻◻◻◻	■◆		3.0
4.0										4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 3.0 m COMPLETE: 01/07/09				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 605-190								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1780+400 36m LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -moist ORGANIC, ICE AND SILT -frozen											0.0
1.0	SILTY GRAVEL WITH SAND (GM) -grey -frozen (Vx) -maximum 50mm material augered up -grindy drilling	<input checked="" type="checkbox"/>	306	●	▲		GM	◆	■			1.0
2.0	END HOLE @ 2.0m -refusal											2.0
3.0												3.0
4.0												4.0
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.				COMPLETION DEPTH: 2.0 m				
				REVIEWED BY:				COMPLETE: 01/07/09				
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 605-191								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1780+500 36m LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -moist											0.0
	ORGANIC, ICE AND SILT -frozen											
1.0	SILTY GRAVEL WITH SAND (GM) -grey -frozen (Nb) -grindy drilling	<input checked="" type="checkbox"/>	307	●	▲		GM	◆◆				1.0
2.0												2.0
3.0	END HOLE @ 2.7m -refusal											3.0
4.0												4.0
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 2.7 m						
				REVIEWED BY:		COMPLETE: 01/07/09						
				Fig. No:		Page 1 of 1						

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 605-193						
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361						
MOBILE B40 L 6" AUGER		LOCATION: 1780+700 22m RT		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE			
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	20	
0.0	ORGANIC -black -moist									0.0
1.0	SILT -brown -frozen (Vx) below 0.3m -sample 310 - 106% moisture									1.0
2.0	SILTY GRAVEL WITH SAND (GM) -grey -frozen (Nf)									2.0
3.0	-sample 311 contaminated by organic material from above END HOLE @ 3.0m									3.0
4.0										4.0
5.0										5.0
6.0										6.0

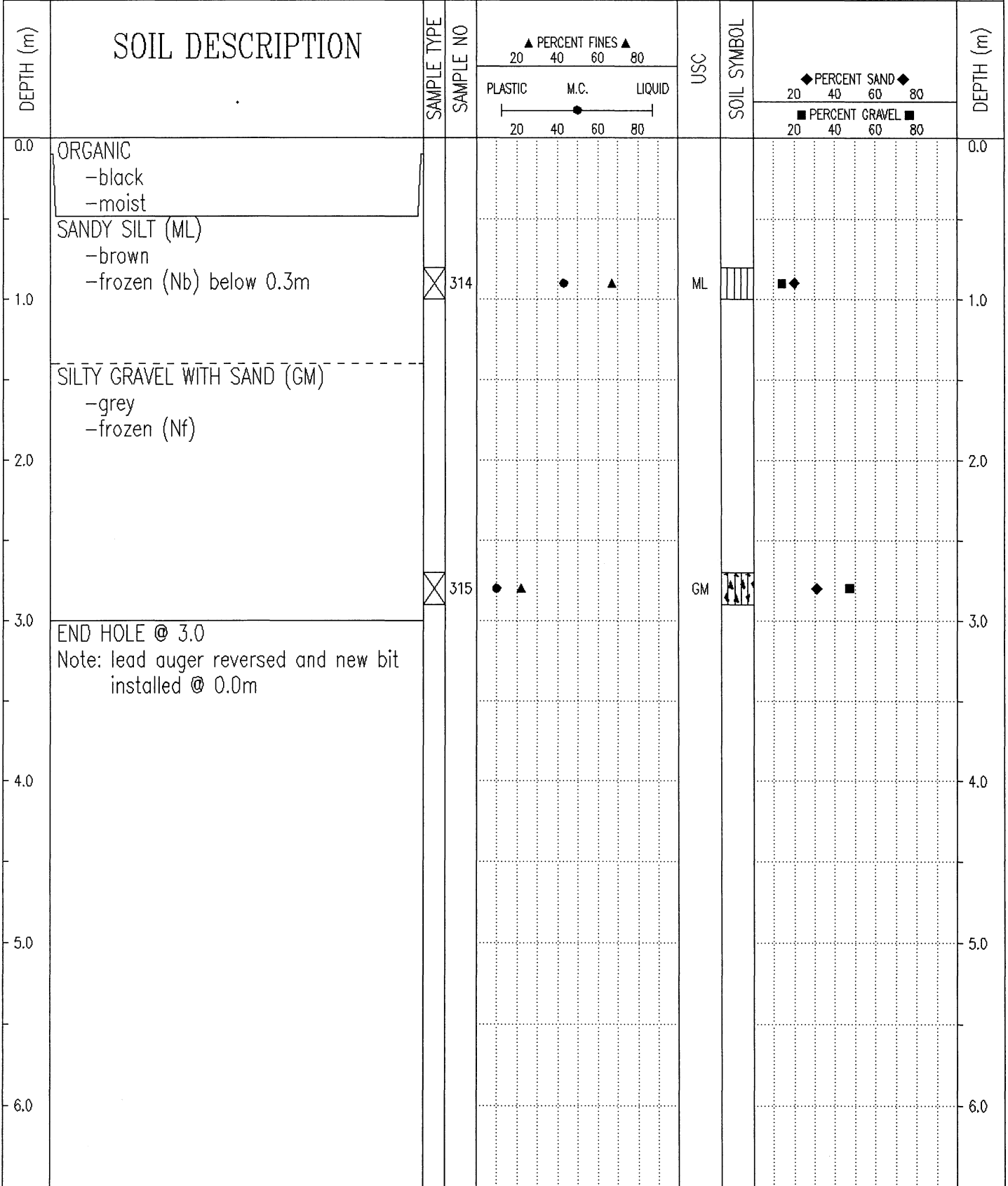
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Fig. No:

COMPLETION DEPTH: 3.0 m
COMPLETE: 01/07/09

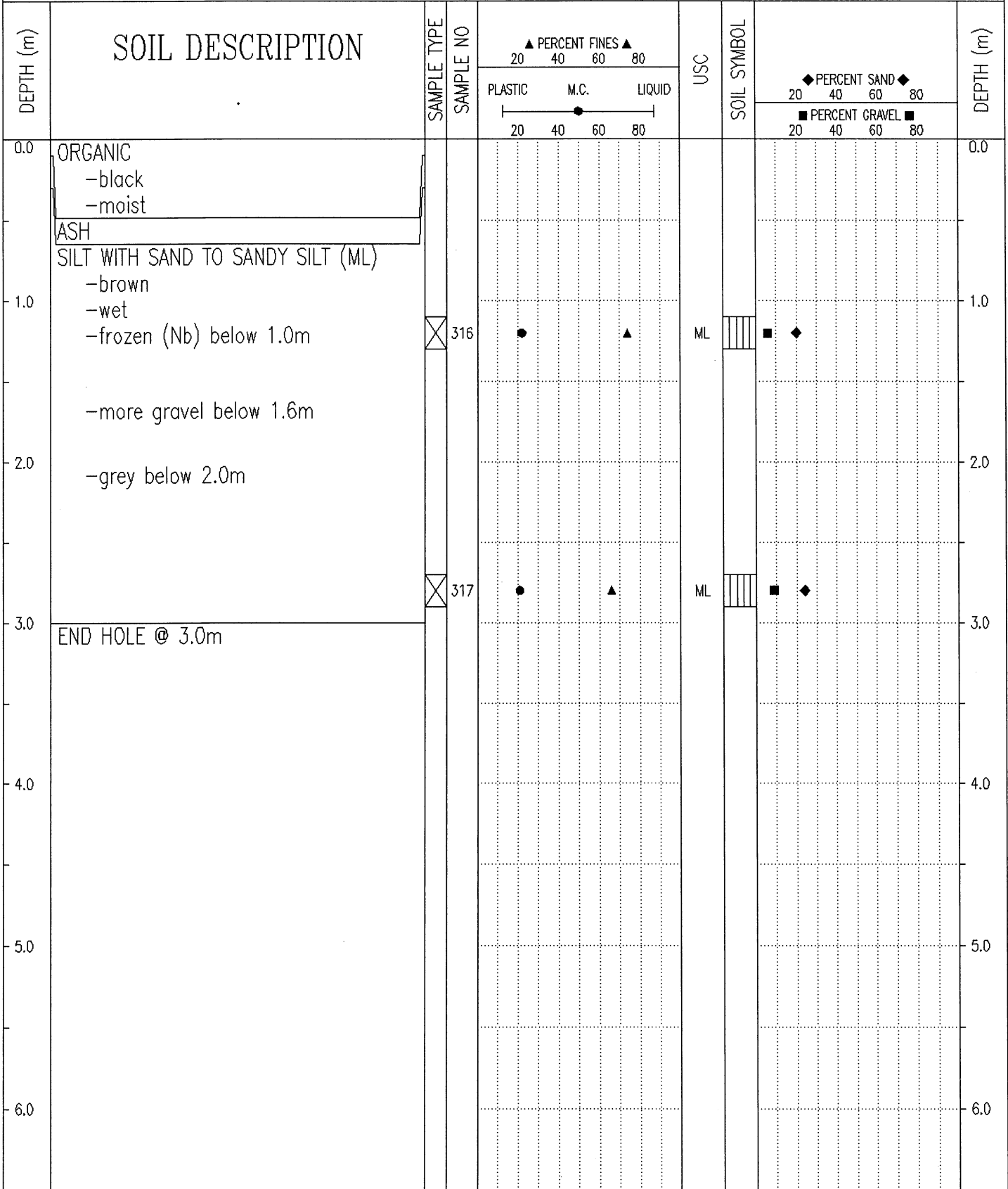
SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 605-194						
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361						
MOBILE B40 L 6" AUGER		LOCATION: 1780+800 32m RT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲		USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	PERCENT GRAVEL ■	
0.0	ORGANIC -black -moist									0.0
0.0 - 1.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Nb) below 0.3m									
1.0		<input checked="" type="checkbox"/>	312	●	▲		SM	■	◆	
2.0	SANDY SILT (ML) -grey -frozen (Nf)									
2.0 - 3.0		<input checked="" type="checkbox"/>	313	●	▲		ML	■	◆	
3.0	END HOLE @ 3.0m									
4.0										
5.0										
6.0										
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 3.0 m COMPLETE: 01/07/09		Page 1 of 1		

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 605-195
ENGINEERING CAPITAL	DUKE RV TO QUILL CR.	Project No: 092-202101-0361
MOBILE B40 L 6" AUGER	LOCATION: 1780+900 36m RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



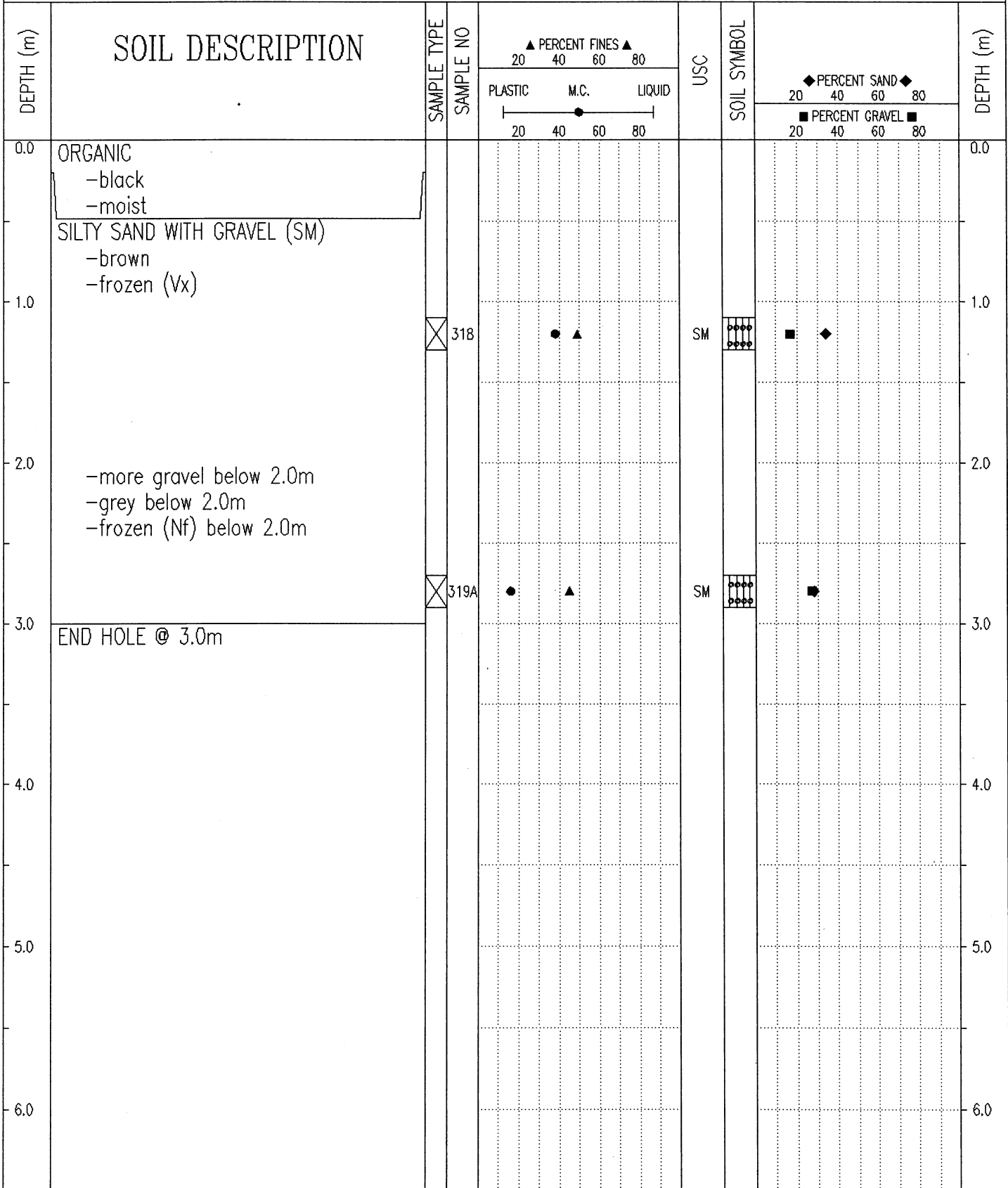
Government of Yukon Transportation Engineering	LOGGED BY: B.B.	COMPLETION DEPTH: 3.0 m
	REVIEWED BY:	COMPLETE: 01/07/10
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 605-196
ENGINEERING CAPITAL	DUKE RV TO QUILL CR.	Project No: 092-202101-0361
MOBILE B40 L 6" AUGER	LOCATION: 1781+000 32m RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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	REVIEWED BY:	COMPLETE: 01/07/10
	Fig. No:	Page 1 of 1

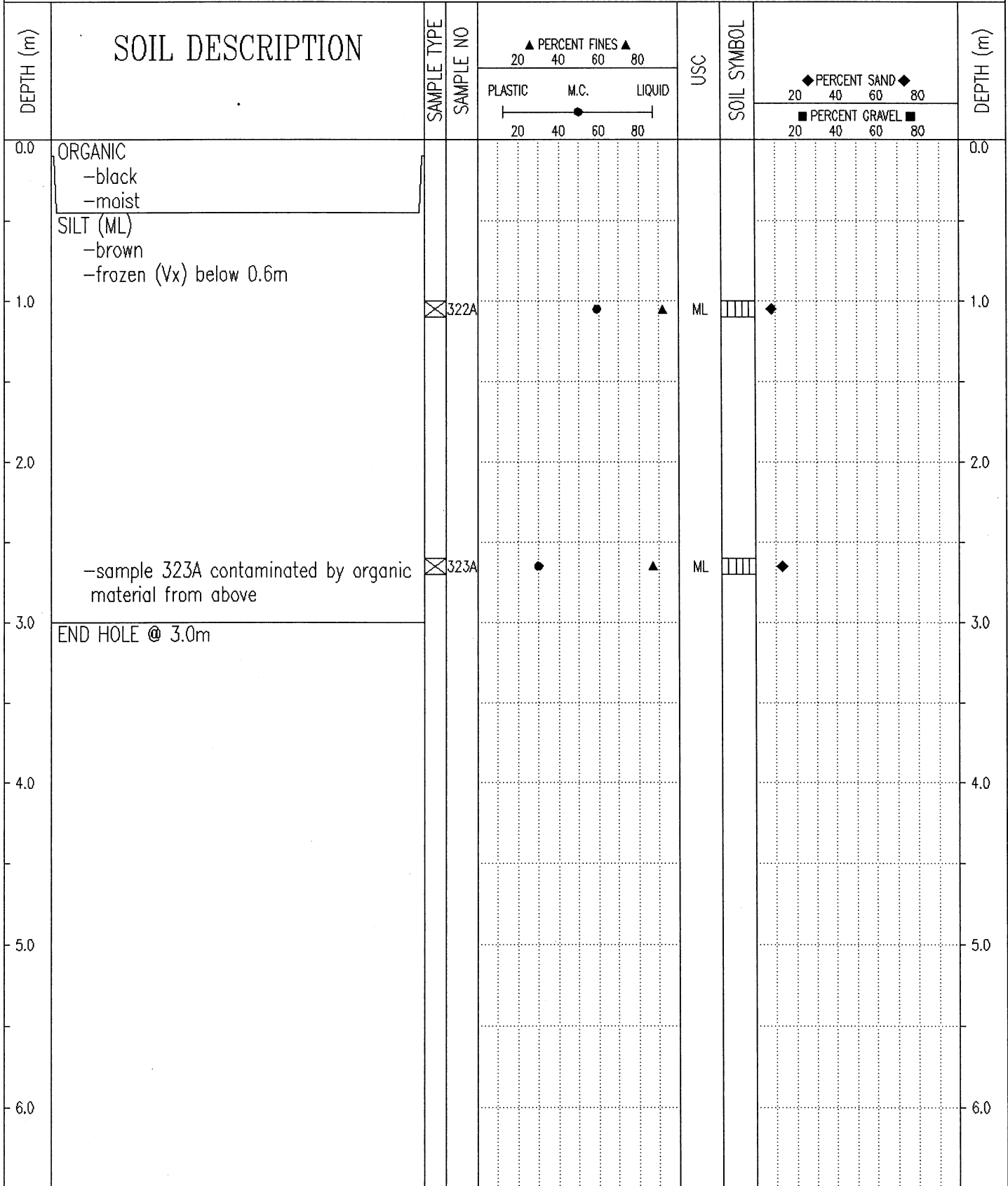
SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 605-197
ENGINEERING CAPITAL	DUKE RV TO QUILL CR.	Project No: 092-202101-0361
MOBILE B40 L 6" AUGER	LOCATION: 1781+100 36m RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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	REVIEWED BY:	COMPLETE: 01/07/10
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 605-198								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1781+200 36m RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC -black -moist											0.0
1.0	SILT WITH SAND TO SILT (ML) -brown -frozen (Vx) -sample 320A contaminated by organic material from above	<input checked="" type="checkbox"/>	320A	●		▲	ML	▨	◆	■		1.0
2.0	-frozen (Nb) below 2.0m											2.0
3.0	END HOLE @ 3.0m	<input checked="" type="checkbox"/>	321A	●		▲	ML	▨	◆	■		3.0
4.0												4.0
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 3.0 m						
				REVIEWED BY:		COMPLETE: 01/07/10						
				Fig. No:		Page 1 of 1						

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 605-199
ENGINEERING CAPITAL	DUKE RV TO QUILL CR.	Project No: 092-202101-0361
MOBILE B40 L 6" AUGER	LOCATION: 1781+300 36m RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 605-200								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1781+400 36m RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -moist ICE AND SILT -frozen below 0.1m											0.0
1.0												1.0
2.0	SILTY GRAVEL WITH SAND (GM) -brown -frozen (Vx)	<input checked="" type="checkbox"/>	324A	●	▲		GM	◆	■			2.0
3.0	SANDY SILT WITH GRAVEL (ML) -grey -frozen (Nb)	<input checked="" type="checkbox"/>	325A	●	▲		ML	◆				3.0
4.0												4.0
5.0												5.0
6.0												6.0
END HOLE @ 3.0m												
Government of Yukon Transportation Engineering				LOGGED BY: B.B.				COMPLETION DEPTH: 3.0 m				
				REVIEWED BY:				COMPLETE: 01/07/10				
				Fig. No:				Page 1 of 1				

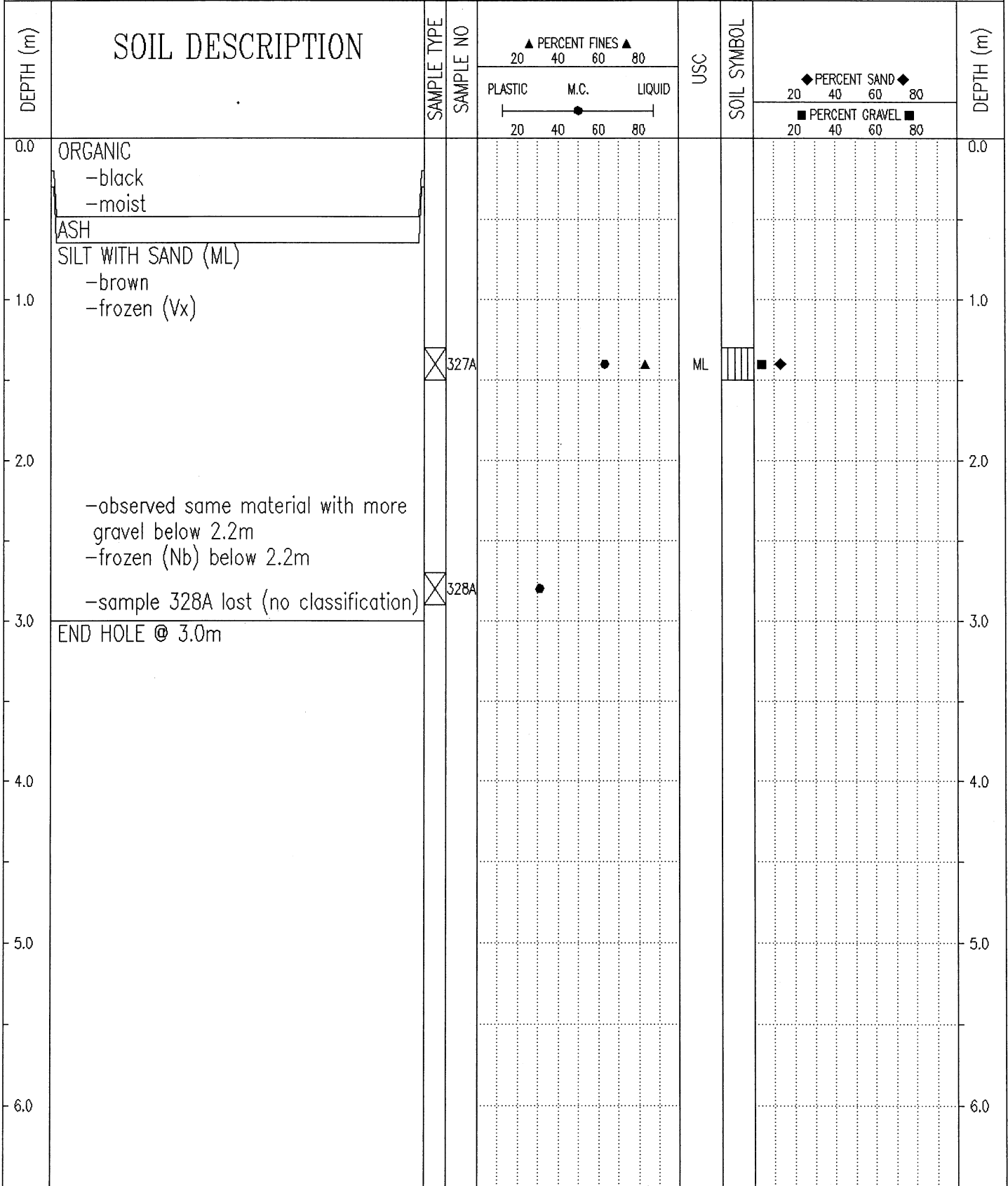
SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 605-201
ENGINEERING CAPITAL	DUKE RV TO QUILL CR.	Project No: 092-202101-0361
MOBILE B40 L 6" AUGER	LOCATION: 1781+500 36m RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE
		<input type="checkbox"/> CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		DEPTH (m)
				20	40	60			80	20	40	60	
0.0	ORGANIC -black -moist											0.0	
0.0 - 1.0	SILT -brown -trace of sand and gravel -frozen below 0.3m												
1.0 - 2.0	SILTY GRAVEL WITH SAND (GM) -brown -frozen (Nf) -maximum 50mm material augered up	<input checked="" type="checkbox"/>	326A	▲				GM	◆	■			
2.0 - 3.0													
3.0	END HOLE @ 3.0m												
4.0													
5.0													
6.0													

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	REVIEWED BY:	COMPLETE: 01/07/10
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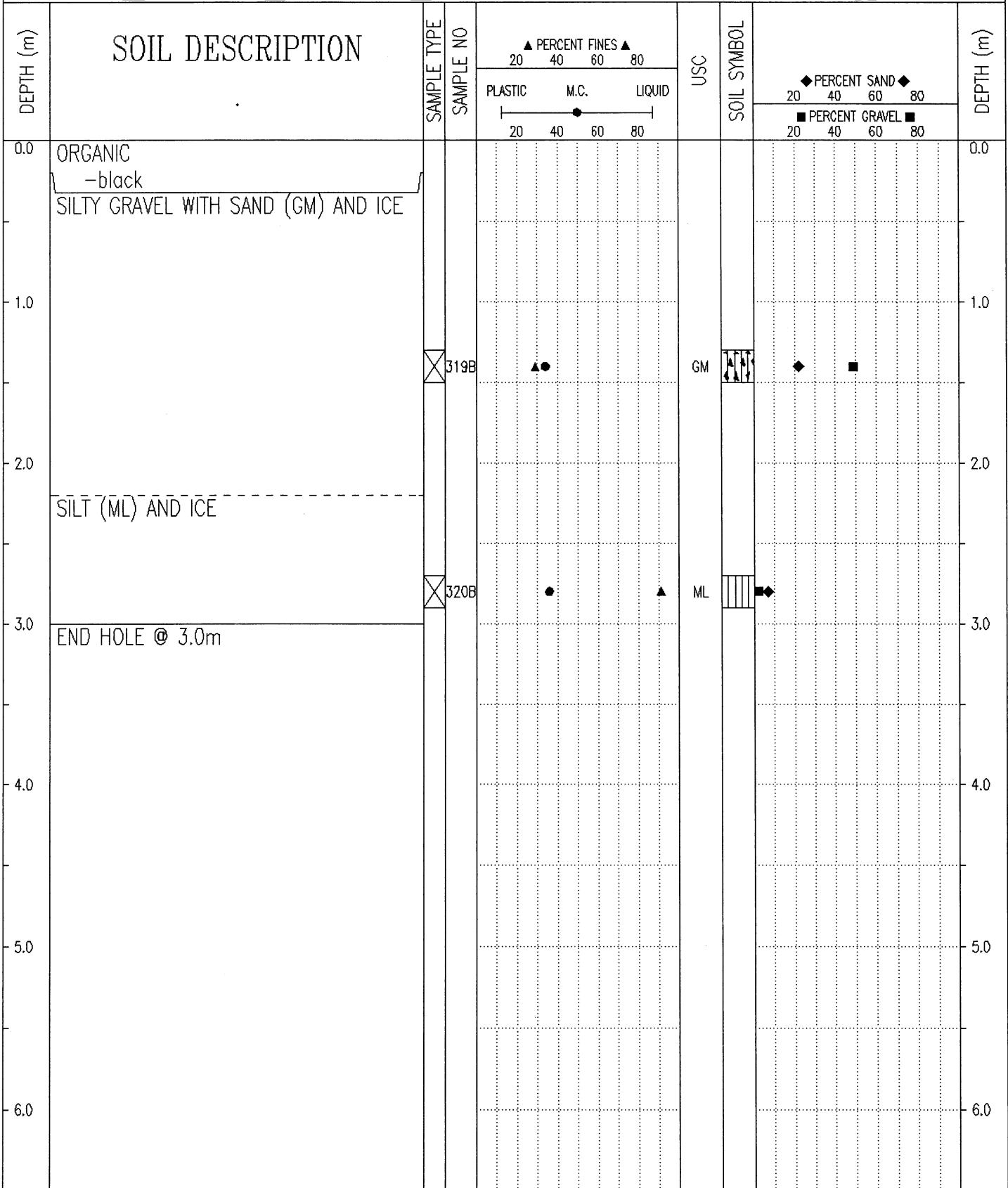
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ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361						
MOBILE B40 L 6" AUGER		LOCATION: 1781+600 36m RT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	20	
0.0	ORGANIC -black -moist ICE AND PEAT -frozen below 0.3m									0.0
1.0										1.0
2.0	SILT (ML) -grey -frozen (Nb)									2.0
3.0	END HOLE @ 2.7m -refusal	<input checked="" type="checkbox"/>	326B				ML			3.0
4.0										4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 2.7 m				
				REVIEWED BY:		COMPLETE: 01/07/10				
				Fig. No:		Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 605-203
ENGINEERING CAPITAL	DUKE RV TO QUILL CR.	Project No: 092-202101-0361
MOBILE B40 L 6" AUGER	LOCATION: 1781+700 36m RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



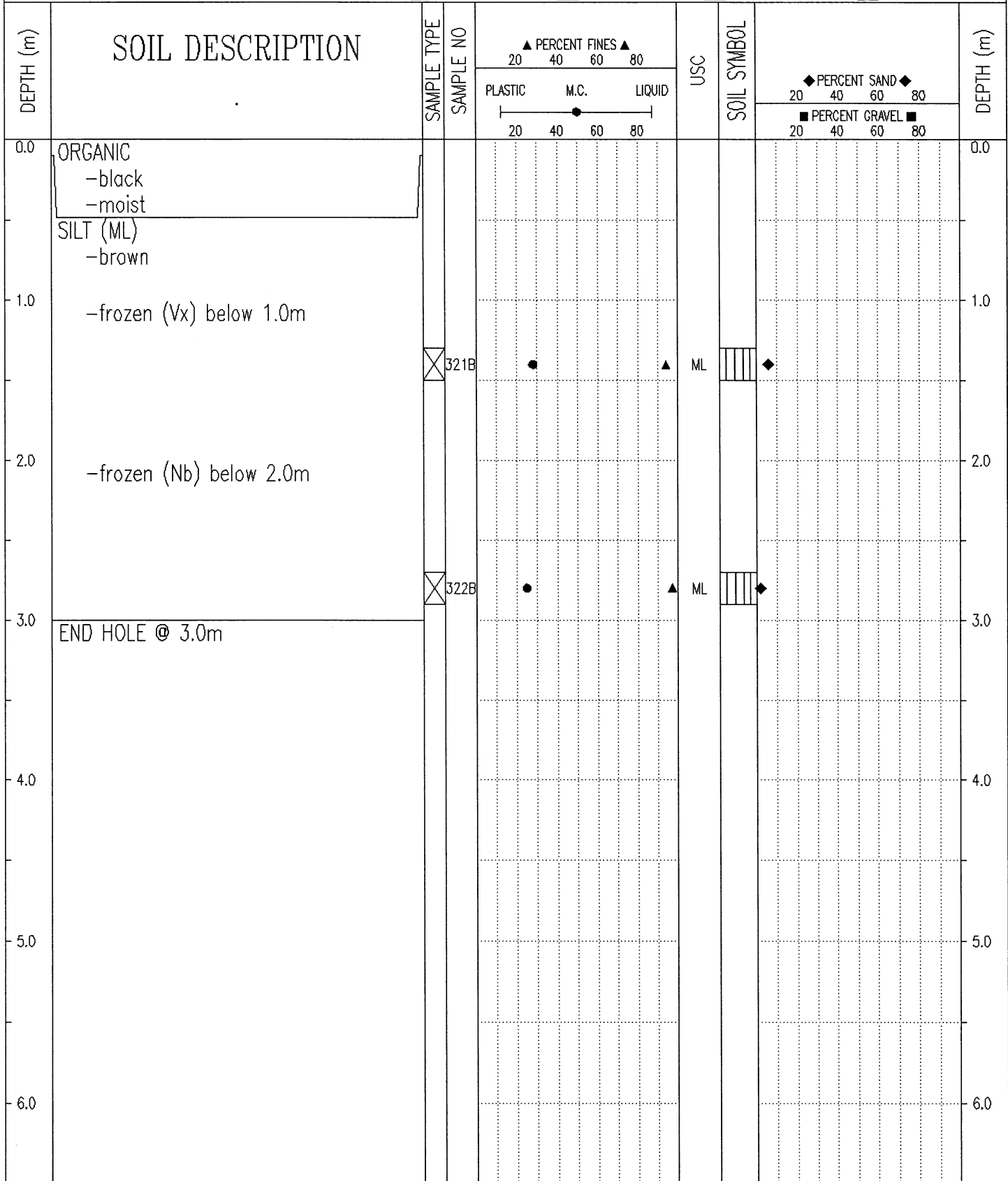
Government of Yukon Transportation Engineering	LOGGED BY: B.B.	COMPLETION DEPTH: 3.0 m
	REVIEWED BY:	COMPLETE: 01/07/10
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 605-204
ENGINEERING CAPITAL	DUKE RV TO QUILL CR.	Project No: 092-202101-0361
MOBILE B40 L 6" AUGER	LOCATION: 1781+800 36m RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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	REVIEWED BY:	COMPLETE: 01/07/10
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 605-205
ENGINEERING CAPITAL	DUKE RV TO QUILL CR.	Project No: 092-202101-0361
MOBILE B40 L 6" AUGER	LOCATION: 1781+900 32m RT	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE	



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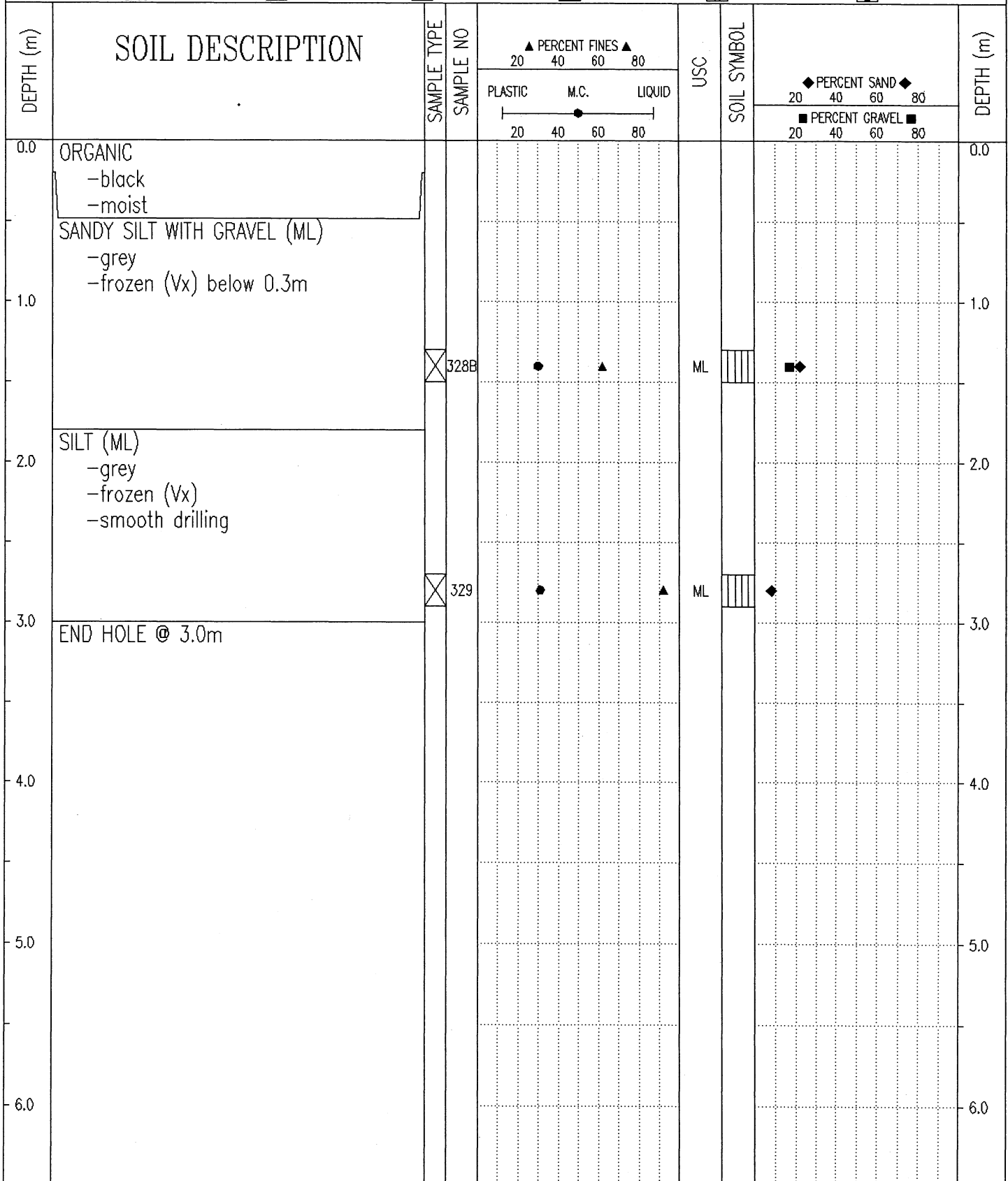
LOGGED BY: B.B.	COMPLETION DEPTH: 3.0 m
REVIEWED BY:	COMPLETE: 01/07/10
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 605-206								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1782+000 32m RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲			USC	SOIL SYMBOL	◆ PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -moist											0.0
1.0	SANDY SILT -grey -frozen (Nb)											1.0
2.0	SILTY SAND WITH GRAVEL -grey -frozen (Nb) -grindy drilling below 1.5m	<input checked="" type="checkbox"/>	323B	●	▲		SM	●●●●	◆			2.0
3.0	END HOLE @ 3.0m Note: surface water running into hole	<input checked="" type="checkbox"/>	324B	●	▲		SM	●●●●	■			3.0
4.0												4.0
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 3.0 m COMPLETE: 01/07/11		Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 605-207								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR.		Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1782+100 32m RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲			USC	SOIL SYMBOL	◆ PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -moist ICE AND ORGANIC											0.0
1.0												1.0
2.0	SANDY SILT (ML) -grey -frozen (Vx)											2.0
3.0	END HOLE @ 3.0m	<input checked="" type="checkbox"/>	325B				ML	<input checked="" type="checkbox"/>				3.0
4.0												4.0
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 3.0 m						
				REVIEWED BY:		COMPLETE: 01/07/11						
				Fig. No:		Page 1 of 1						

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 606-208						
ENGINEERING CAPITAL		DUKE RV TO QUILL CR		Project No: 092-202101-0361						
MOBILE DRILL B 40 L 6' AUGER		LOCATION: 1782+208 36M RT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	PERCENT GRAVEL ■	
0.0	ORGANIC -moist									0.0
1.0	SILT WITH SAND (ML) -brown -frozen (Vx) -frozen below 0.4m									1.0
2.0	-more gravel below 1.5m		326C			ML				2.0
3.0	SILT (ML) -grey -frozen (Nb) -smooth quiet drilling		327B			ML				3.0
4.0	END HOLE @ 3.0m									4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 3.0 m COMPLETE: 01/07/11				

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 606-209
ENGINEERING CAPITAL	DUKE RV TO QUILL CR	Project No: 092-202101-0361
MOBILE DRILL B 40 L 6' AUGER	LOCATION: 1782+296 33M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 606-210								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR		Project No: 092-202101-0361								
MOBILE DRILL B 40 L 6' AUGER		LOCATION: 1782+403 36M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC -black -moist											0.0
1.0	SILT WITH SAND (ML) -brown -frozen (Nb) below 0.3m											1.0
2.0	SILTY SAND WITH GRAVEL (SM) -grey -frozen (Nf)											2.0
3.0	END HOLE @ 3.0m											3.0
4.0												4.0
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.				COMPLETION DEPTH: 3.0 m				
				REVIEWED BY:				COMPLETE: 01/07/11				
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 606-211								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR		Project No: 092-202101-0361								
MOBILE DRILL B 40 L 6' AUGER		LOCATION: 1782+497 37M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -moist SILT (ML) -brown -frozen (Vx) below 0.3m											0.0
1.0												1.0
2.0		<input checked="" type="checkbox"/>	332	●		▲	ML	▨	◆			2.0
3.0	-grey below 2.8m END HOLE @ 3.0m	<input checked="" type="checkbox"/>	333	●		▲	ML	▨	◆			3.0
4.0												4.0
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 3.0 m						
				REVIEWED BY:		COMPLETE: 01/07/11						
				Fig. No:		Page 1 of 1						

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 606-212							
ENGINEERING CAPITAL		DUKE RV TO QUILL CR		Project No: 092-202101-0361							
MOBILE DRILL B 40 L 6' AUGER		LOCATION: 1782+595 35M RT		ELEVATION: 0.00 (m)							
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER							
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE							
				<input type="checkbox"/> CORE							
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲			USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC -black -moist										0.0
	ASH -frozen below 0.2m										
1.0	SILT AND ICE										1.0
2.0	SILT WITH SAND (ML) -brown -frozen (Vx)										2.0
3.0	END HOLE @ 3.0m	<input checked="" type="checkbox"/>	334				ML	<input checked="" type="checkbox"/>			3.0
4.0											4.0
5.0											5.0
6.0											6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 3.0 m					
				REVIEWED BY:		COMPLETE: 01/07/11					
				Fig. No:				Page 1 of 1			

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 606-213								
ENGINEERING CAPITAL		DUKE RV TO QUILL CR		Project No: 092-202101-0361								
MOBILE DRILL B 40 L 6' AUGER		LOCATION: 1782+697 33M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC -black -moist											0.0
1.0	SILT (ML) -some gravels -frozen (Vx) below 0.4m											1.0
2.0	-less gravels below 2.0m -grey below 2.0m -frozen (Nb) below 2.0m	<input checked="" type="checkbox"/>	335		●	▲	ML	▨	◆			2.0
3.0	END HOLE @ 3.0m	<input checked="" type="checkbox"/>	336		●	▲	ML	▨	◆			3.0
4.0												4.0
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY:				COMPLETION DEPTH: 3.0 m COMPLETE: 01/07/11				
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 606-214						
ENGINEERING CAPITAL		DUKE RV TO QUILL CR		Project No: 092-202101-0361						
MOBILE DRILL B 40 L 6' AUGER		LOCATION: 1782+792 35M RT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	20	
0.0	ORGANIC -black -moist									0.0
	ORGANIC & ICE -frozen below 0.4m									
1.0	SILT (ML) -brown -frozen (Vx)	<input checked="" type="checkbox"/>	337	●	▲	ML	▨	◆		1.0
2.0										2.0
3.0	END HOLE @ 3.0m	<input checked="" type="checkbox"/>	338	●	▲	ML	▨	◆		3.0
4.0										4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY:		COMPLETION DEPTH: 3.0 m COMPLETE: 01/07/11				
				Fig. No:		Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT.		SHAKWAK SEG 11		TEST HOLE NO: 629-1687								
ENGINEERING CAPITAL				Project No: 092-202101-0361								
NODWELL B40L 6" AUGER		LOCATION: KM 1783+025 3M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC SILT (ML) -brown -moist		1532				ML					0.0
1.0	SILTY SAND WITH GRAVEL (SM) -grindy drilling		1533				SM					1.0
2.0	GRAVELLY SILT WITH SAND TO SILTY GRAVEL (ML)-(GM) -frozen -slow tight rough drilling		1534				ML					2.0
3.0			1535				GM					3.0
4.0												4.0
5.0	END HOLE @ 4.5m											5.0
6.0												6.0

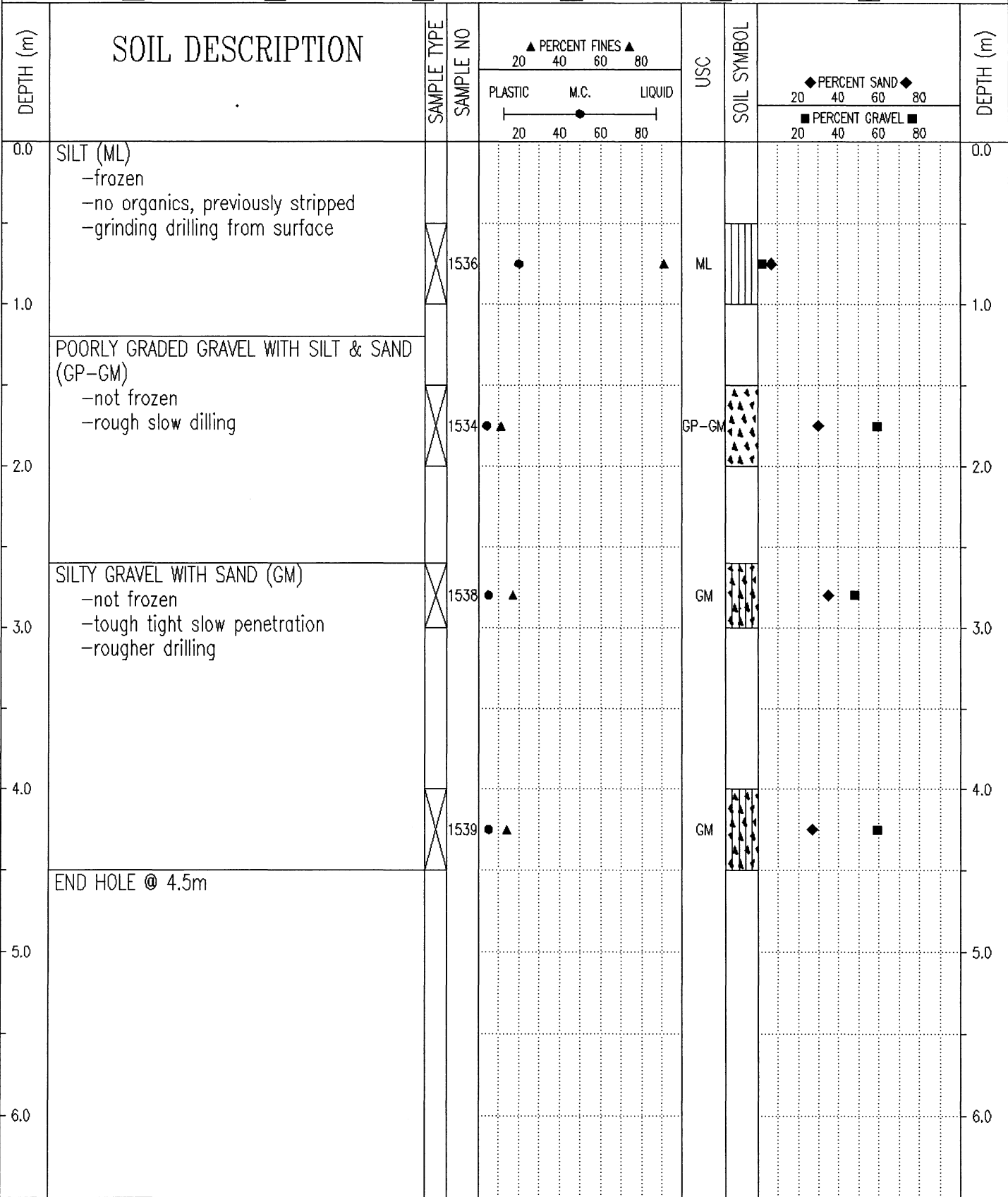
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Fig. No:

COMPLETION DEPTH: 4.5 m
COMPLETE: 01/11/15

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SUBSURFACE EXPLORATION & TESTING REPORT.	SHAKWAK SEG 11	TEST HOLE NO: 629-1688
ENGINEERING CAPITAL		Project No: 092-202101-0361
NODWELL B40L 6" AUGER	LOCATION: KM 1783+125 2M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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	REVIEWED BY:	COMPLETE: 01/11/16
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT.		SHAKWAK SEG 11		TEST HOLE NO: 629-1689								
ENGINEERING CAPITAL				Project No: 092-202101-0361								
NODWELL B40L 6" AUGER		LOCATION: KM 1783+200 10M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	SILT WITH ORGANIC (ML) -moist -not frozen											0.0
1.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -moist -grindy drilling											1.0
2.0	-steady - not quite easy drilling											2.0
3.0	END HOLE @ 3.0m											3.0
4.0												4.0
5.0												5.0
6.0												6.0

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Fig. No:

COMPLETION DEPTH: 3.0 m
COMPLETE: 01/11/16

SUBSURFACE EXPLORATION & TESTING REPORT.		SHAKWAK SEG 11		TEST HOLE NO: 629-1690								
ENGINEERING CAPITAL				Project No: 092-202101-0361								
NODWELL B40L 6" AUGER		LOCATION: KM 1783+200 CENTRELINE		ELEVATION: 0.00 (m)								
SAMPLE TYPE		S.P.T.		AUGER								
RETURN		BULK		TUBE								
CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ORGANIC										0.0	
	ORGANIC SILT (MIX) (ML) -brown -moist (not frozen)		1543				ML					
1.0	POORLY GRADED GRAVEL WITH SILT & SAND TO POORLY GRADED GRAVEL WITH SAND (GP-GM)-(GP) -damp (not frozen) -grindy drilling		1544				GP-GM					
2.0	-easy grindy drilling below 2.0 m											
3.0	END HOLE @ 3.0m		1545				GP					
4.0												
5.0												
6.0												

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COMPLETION DEPTH: 3.0 m
COMPLETE: 01/11/16

SUBSURFACE EXPLORATION & TESTING REPORT.		SHAKWAK SEG 11		TEST HOLE NO: 629-1691						
ENGINEERING CAPITAL				Project No: 092-202101-0361						
NODWELL B40L 6" AUGER		LOCATION: KM 1783+200 25M LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE			
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80		DEPTH (m)
				PLASTIC	M.C.			LIQUID	■ PERCENT GRAVEL ■ 20 40 60 80	
0.0	SILT WITH ORGANIC (ML) -brown -moist (not frozen)									0.0
1.0			1546				ML			1.0
2.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -brown -moist -easy grindy drilling		1547				GP-GM			2.0
3.0			1548				GP-GM			3.0
4.0	END HOLE @ 3.0m									4.0
5.0										5.0
6.0										6.0

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COMPLETION DEPTH: 3.0 m

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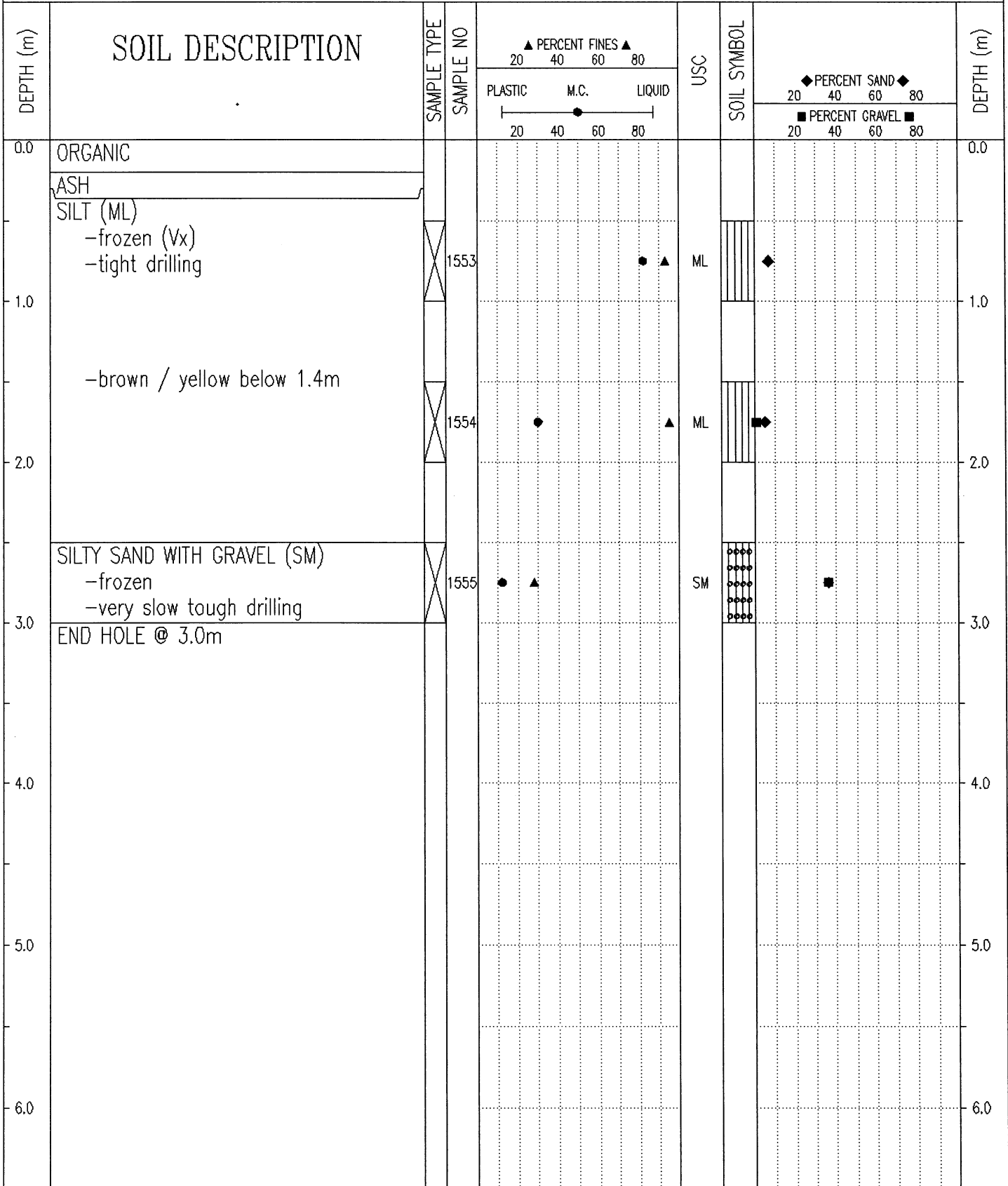
COMPLETE: 01/11/16

Fig. No:

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SUBSURFACE EXPLORATION & TESTING REPORT.		SHAKWAK SEG 11		TEST HOLE NO: 629-1692									
ENGINEERING CAPITAL				Project No: 092-202101-0361									
NODWELL B40L 6" AUGER		LOCATION: KM 1783+250 3M LT		ELEVATION: 0.00 (m)									
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER									
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE									
				<input type="checkbox"/> CORE									
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)	
				PLASTIC	M.C.	LIQUID			20	40	60		80
0.0	ORGANIC ASH SILT WITH SAND (ML) -brown -wet		1549	20	40	60	80	ML					0.0
1.0	POORLY TO WELL-GRADED GRAVEL WITH SILT & SAND (GP-GM)-(GW-GM) -brown -damp (not frozen) -grindy drilling		1550					GP-GM					1.0
2.0			1551					GW-GM					2.0
3.0			1552					SM					3.0
4.0	SILTY SAND WITH GRAVEL (SM) -moist -smooth drilling												4.0
5.0	END HOLE @ 4.5m												5.0
6.0													6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C.		COMPLETION DEPTH: 4.5 m							
				REVIEWED BY:		COMPLETE: 01/11/16							
				Fig. No:		Page 1 of 1							

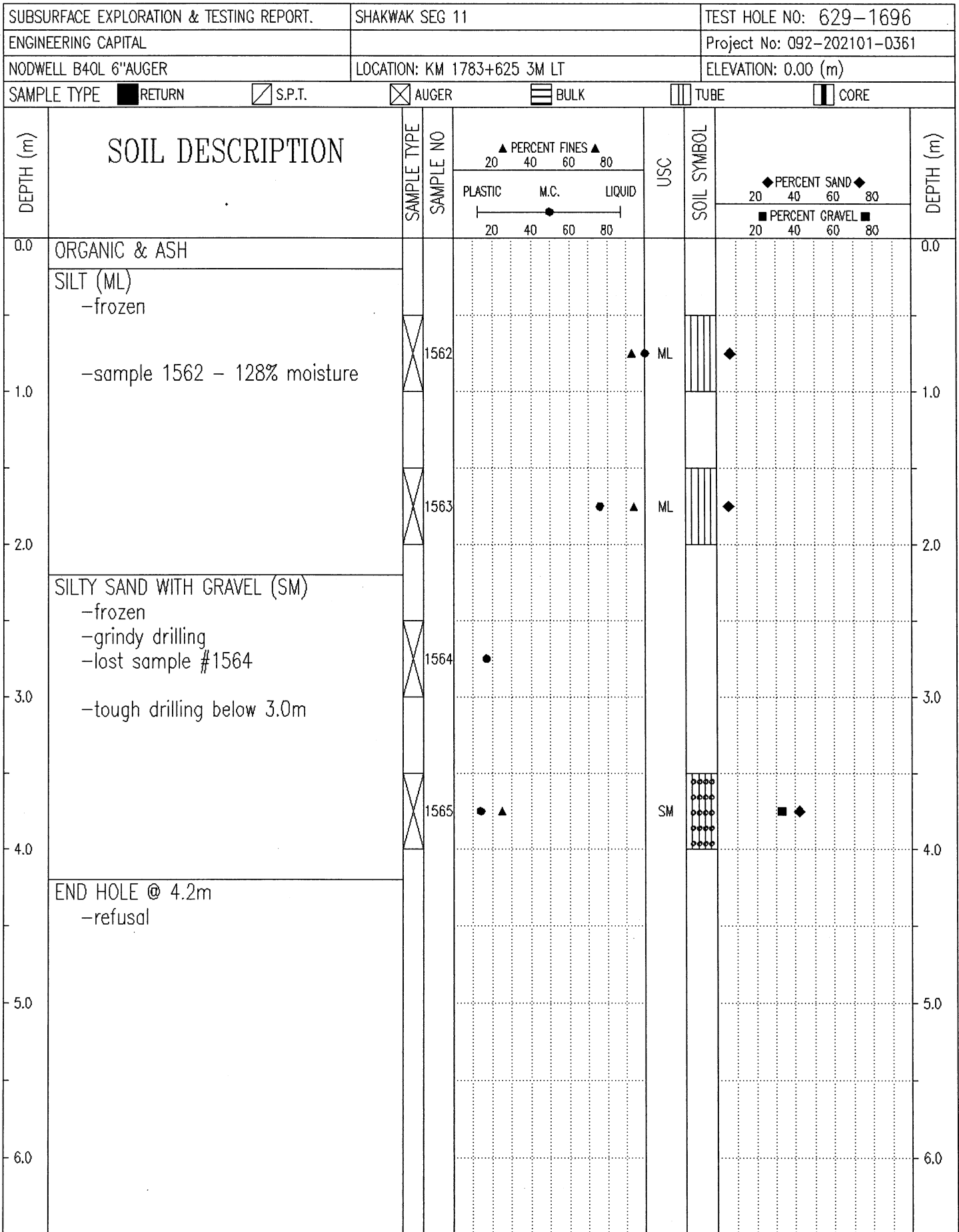
SUBSURFACE EXPLORATION & TESTING REPORT.	SHAKWAK SEG 11	TEST HOLE NO: 629-1693
ENGINEERING CAPITAL		Project No: 092-202101-0361
NODWELL B40L 6" AUGER	LOCATION: KM 1783+350 3M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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	REVIEWED BY:	COMPLETE: 01/11/16
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SUBSURFACE EXPLORATION & TESTING REPORT.		SHAKWAK SEG 11		TEST HOLE NO: 629-1694								
ENGINEERING CAPITAL				Project No: 092-202101-0361								
NODWELL B40L 6" AUGER		LOCATION: KM 1783+450 3M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -frozen		1556	●		▲		GP-GM	◆			0.0
1.0	SILT (ML) -brown -frozen -tight slow drilling		1557	●		▲		ML	◆			1.0
2.0			1558	●		▲		ML	◆			2.0
3.0	END HOLE @ 3.0m											3.0
4.0												4.0
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C. REVIEWED BY:		COMPLETION DEPTH: 3.0 m COMPLETE: 01/11/16						
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT.		SHAKWAK SEG 11		TEST HOLE NO: 629-1695								
ENGINEERING CAPITAL				Project No: 092-202101-0361								
NODWELL B40L 6" AUGER		LOCATION: KM 1783+550 3M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC & ASH										0.0	
	SILT (ML) -moist to wet -brown -frozen (Vx) below 0.6m -sample 1559 - 120% moisture		1559				ML					1.0
			1560				ML					2.0
	SILT WITH GRAVEL (ML) -frozen -tough slow grinding drilling		1561				ML					3.0
	END HOLE @ 3.0m											6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C. REVIEWED BY:		COMPLETION DEPTH: 3.0 m COMPLETE: 01/11/16						
				Fig. No:				Page 1 of 1				



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SUBSURFACE EXPLORATION & TESTING REPORT.		SHAKWAK SEG 11		TEST HOLE NO: 629-1697								
ENGINEERING CAPITAL				Project No: 092-202101-0361								
NODWELL B40L 6" AUGER		LOCATION: KM 1783+625 20m LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC & SILT											0.0
	SILT WITH SAND (ML) -brown -frozen		1566	●		▲	ML		■	◆		
1.0												
	SILT WITH GRAVEL (ML) -frozen -grinding drilling		1567		●	▲	ML		◆	■		
2.0												
	SILTY SAND (SM) -frozen -grindy drilling		1568	▲			SM		■		◆	
3.0												
4.0	-extremely tight drilling below 4.0m											
5.0			1569	●		▲	SM		■	◆		
6.0	END HOLE @ 6.0m											

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Fig. No:

COMPLETION DEPTH: 6.0 m

COMPLETE: 01/11/16

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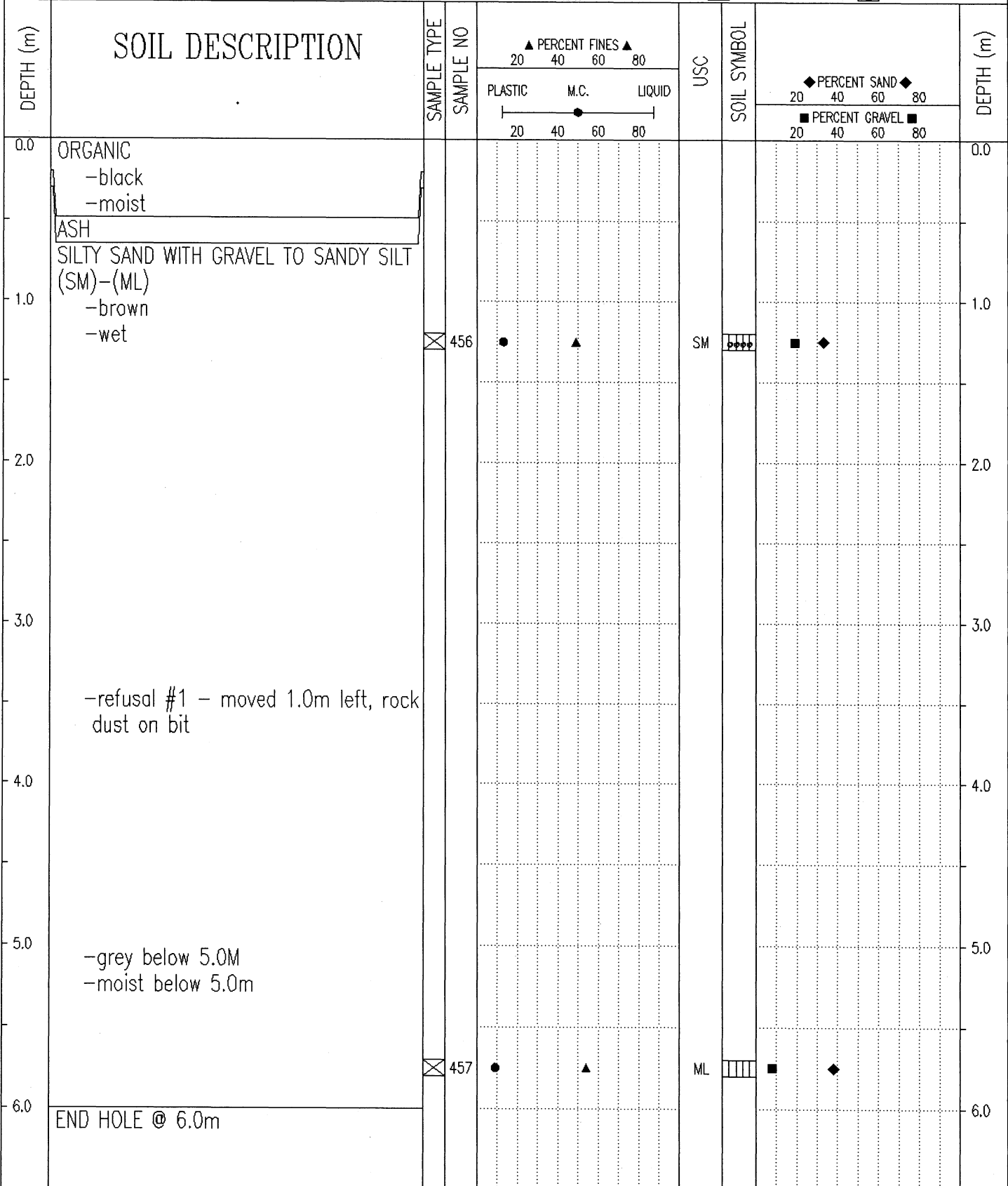
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ENGINEERING CAPITAL				Project No: 092-202101-0361								
NODWELL B40L 6" AUGER		LOCATION: KM 1783+625 20M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC											0.0
	SILT (ML) -frozen											
1.0			1570				ML					1.0
	SILTY GRAVEL WITH SAND (GM) -frozen -rough grinding drilling -first refusal @ 1.5m											
2.0			1571				GM					2.0
	END HOLE @ 2.2m -refusal											
3.0												3.0
4.0												4.0
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C.				COMPLETION DEPTH: 2.2 m				
				REVIEWED BY:				COMPLETE: 01/11/16				
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 608-285						
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361						
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1783+743 21M RT.		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE			
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	20	
0.0	ORGANIC -black -wet ASH									0.0
1.0	SANDY SILT (ML) -brown -frozen (Nb) below 1.0m									1.0
2.0		<input checked="" type="checkbox"/>	465	●	▲		ML	■	◆	2.0
3.0										3.0
4.0										4.0
5.0	END HOLE @ 4.5m	<input checked="" type="checkbox"/>	466	●	▲		ML	■	◆	5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 4.5 m COMPLETE: 01/07/25		Page 1 of 1		

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 608-284								
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-D361								
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1783+743		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC -black -wet											0.0
	ASH											
1.0	SANDY SILT WITH GRAVEL (ML) -brown -frozen (Vx) below 1.0m											1.0
		<input checked="" type="checkbox"/>	463	●	▲		ML		◆			
2.0												2.0
3.0												3.0
4.0	-wet below 4.0m											4.0
		<input checked="" type="checkbox"/>	464	●	▲		ML		◆	■		
5.0	END HOLE @ 4.5m											5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 4.5 m						
				REVIEWED BY:		COMPLETE: 01/07/25						
				Fig. No:				Page 1 of 1				

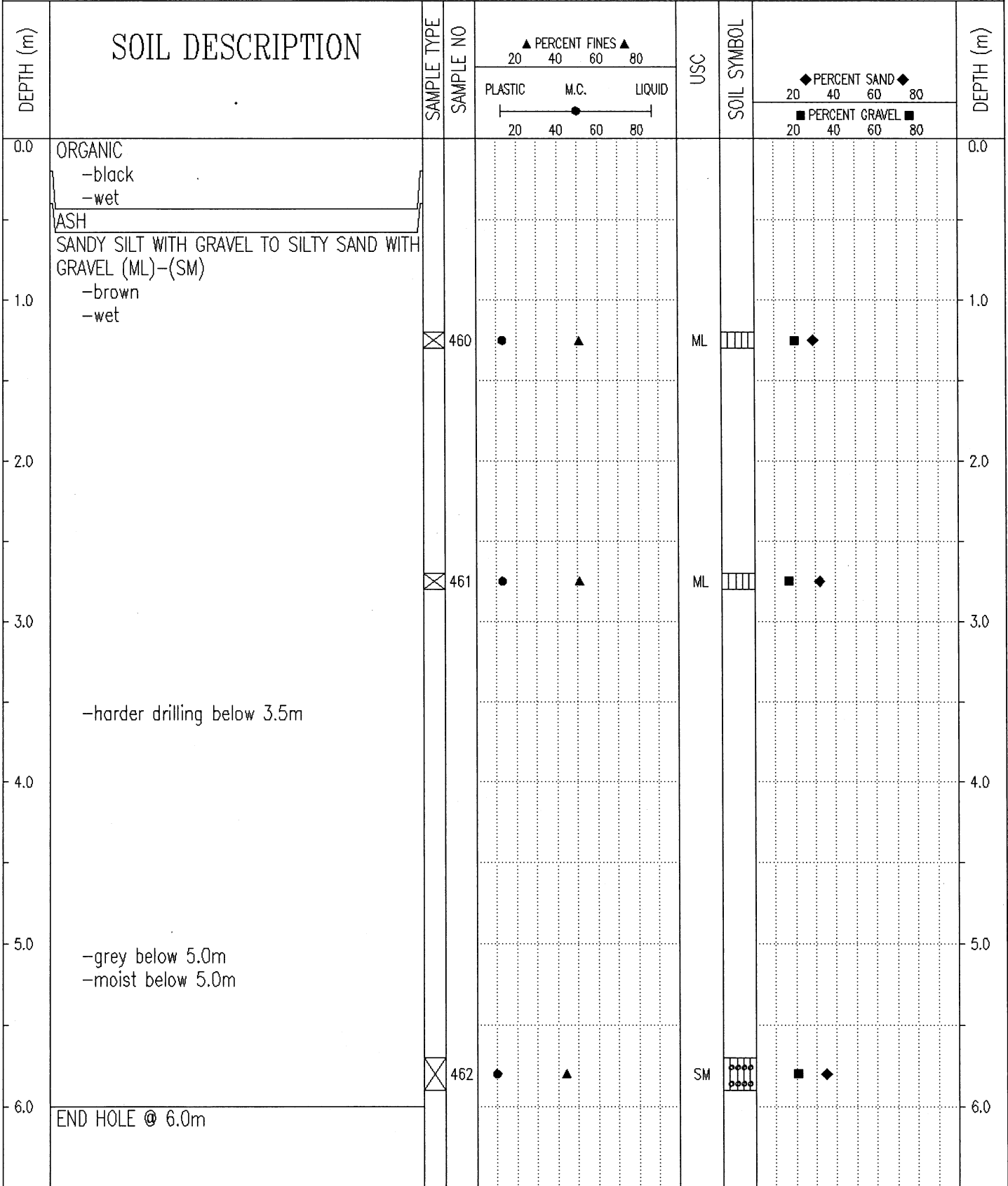
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ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361								
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1783+745 20M LT.		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -wet											0.0
	ASH											
1.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Nb) below 0.5m	<input checked="" type="checkbox"/>	467	●	▲		SM	▣▣▣▣	■	◆		1.0
2.0												2.0
3.0												3.0
4.0	-frozen (Nf) below 4.0m	<input checked="" type="checkbox"/>	468	●	▲		SM	▣▣▣▣	■	◆		4.0
5.0	END HOLE @ 4.5m											5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 4.5 m						
				REVIEWED BY:		COMPLETE: 01/07/25						
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SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 608-281
ENGINEERING CAPITAL	DUKE R. TO QUILL CR.	Project No: 092-202101-0361
MOBILE DRILL B-40L 6" AUGER	LOCATION: 1783+830	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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	REVIEWED BY:	COMPLETE: 01/07/24
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SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 608-283
ENGINEERING CAPITAL	DUKE R. TO QUILL CR.	Project No: 092-202101-0361
MOBILE DRILL B-40L 6" AUGER	LOCATION: 1783+830 19M LT.	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE	

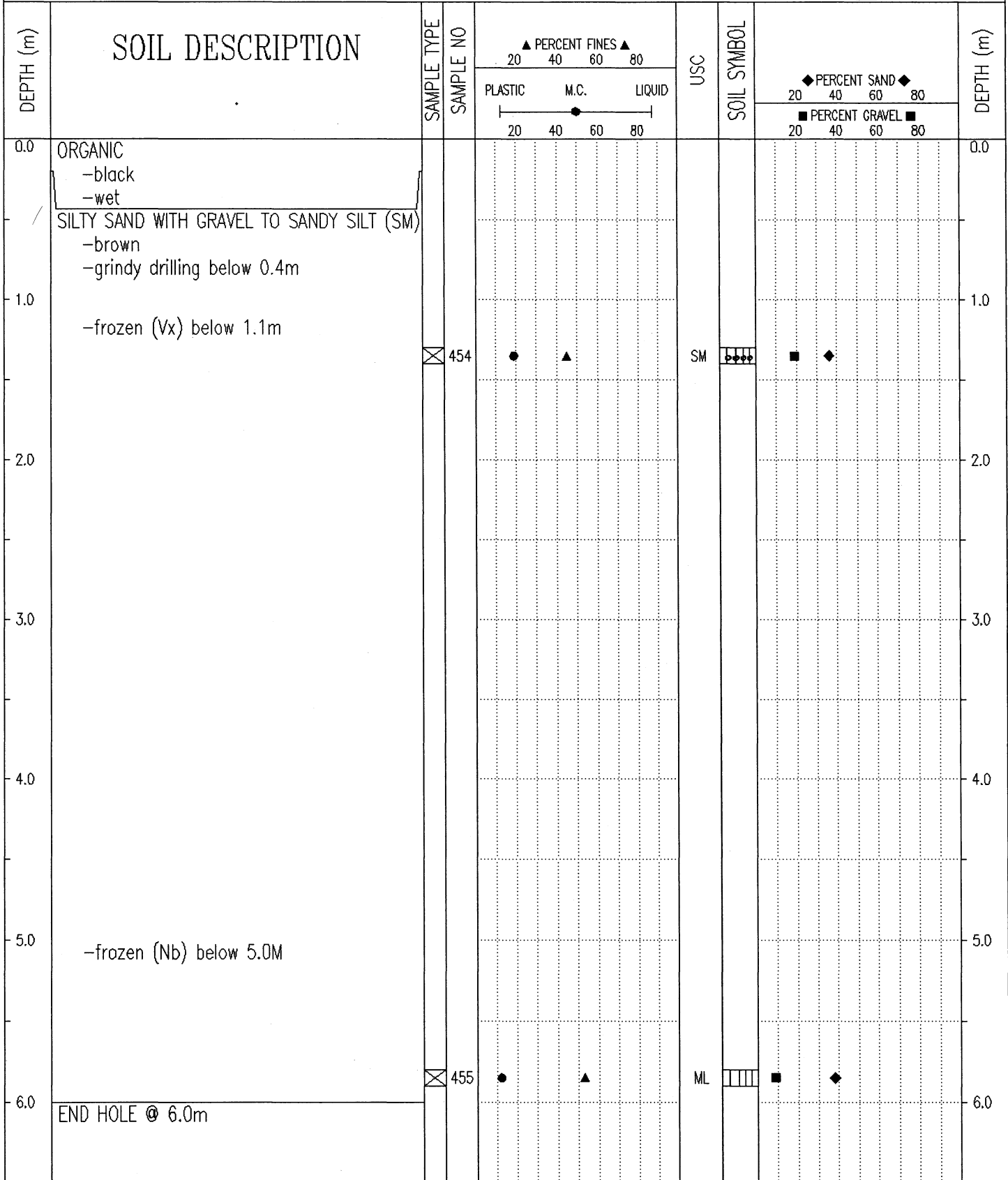


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REVIEWED BY:	COMPLETE: 01/07/25
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 608-282								
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361								
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1783+830 22M RT.		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -wet ASH											0.0
1.0	SANDY SILT WITH GRAVEL TO SILTY SAND WITH GRAVEL TO SILTY SAND (ML)-(SM) -brown -wet											1.0
2.0												2.0
3.0												3.0
4.0	-harder drilling @ 3.5m		458	●	▲		SM	◼◼◼◼	■	◆		4.0
5.0												5.0
6.0	-grey below 5.0m -frozen (Vx) below 5.0m		459	●	▲		SM	◼◼◼◼	■	◆		6.0
6.0	END HOLE @ 6.0m											6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.				COMPLETION DEPTH: 6.0 m				
				REVIEWED BY:				COMPLETE: 01/07/25				
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 608-280
ENGINEERING CAPITAL	DUKE R. TO QUILL CR.	Project No: 092-202101-0361
MOBILE DRILL B-40L 6" AUGER	LOCATION: 1783+923 3M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 608-279								
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361								
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1783+987 20M LT.		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲			USC	SOIL SYMBOL	◆ PERCENT SAND ◆		■ PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC -black -wet											0.0
1.0	SILT TO SILT WITH SAND (ML) -brown -saturated -frozen (Nb) below 1.0m -grindy drilling below 1.0m											1.0
2.0			452	●		▲	ML	▨	◆			2.0
3.0												3.0
4.0												4.0
5.0												5.0
6.0	-grey below 5.0m		453	●		▲	ML	▨	◆	■		6.0
6.0	END HOLE @ 6.0m											6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.				COMPLETION DEPTH: 6.0 m				
				REVIEWED BY:				COMPLETE: 01/07/24				
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 608-278						
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361						
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1784+075		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE			
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	20	
0.0	ORGANIC -black -wet									0.0
	ASH									
1.0	ORGANIC SILT -brown -frozen (Vx)									1.0
2.0	SANDY SILT (ML) -grey -frozen (Vx) -grindy drilling	<input checked="" type="checkbox"/>	450	●	▲	ML	▨	■	◆	2.0
3.0										3.0
4.0										4.0
5.0	-more ice below 5.0m									5.0
6.0	END HOLE @ 6.0m	<input checked="" type="checkbox"/>	451	●	▲	ML	▨	■	◆	6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 6.0 m COMPLETE: 01/07/24		Page 1 of 1		

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 608-277
ENGINEERING CAPITAL	DUKE R. TO QUILL CR.	Project No: 092-202101-0361
MOBILE DRILL B-40L 6" AUGER	LOCATION: 1784+125 7M LT.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			PERCENT GRAVEL ■			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	80	20	40	
0.0	ORGANIC -black -wet													0.0	
	ASH														
1.0	GRAVELLY SILTY ORGANIC & ICE -frozen -grindy drilling below .6m													1.0	
2.0	GRAVELLY SILT WITH SAND (ML) -grey -frozen (Vx)													2.0	
3.0		<input checked="" type="checkbox"/>	449				ML							3.0	
4.0	-more ice below 3.5m													4.0	
5.0	END HOLE @ 4.5m													5.0	
6.0														6.0	

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 608-276								
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361								
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1784+200 8M LT.		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -wet ASH											0.0
1.0	ORGANIC SILT -brown -frozen (Vx)											1.0
2.0												2.0
3.0	SANDY SILT (ML) -grey -frozen (Vx) -grindy drilling											3.0
4.0		<input checked="" type="checkbox"/>	448				ML	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			4.0
5.0	-more ice below 5.0m											5.0
6.0	END HOLE @ 6.0m											6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.				COMPLETION DEPTH: 6.0 m				
				REVIEWED BY:				COMPLETE: 01/07/24				
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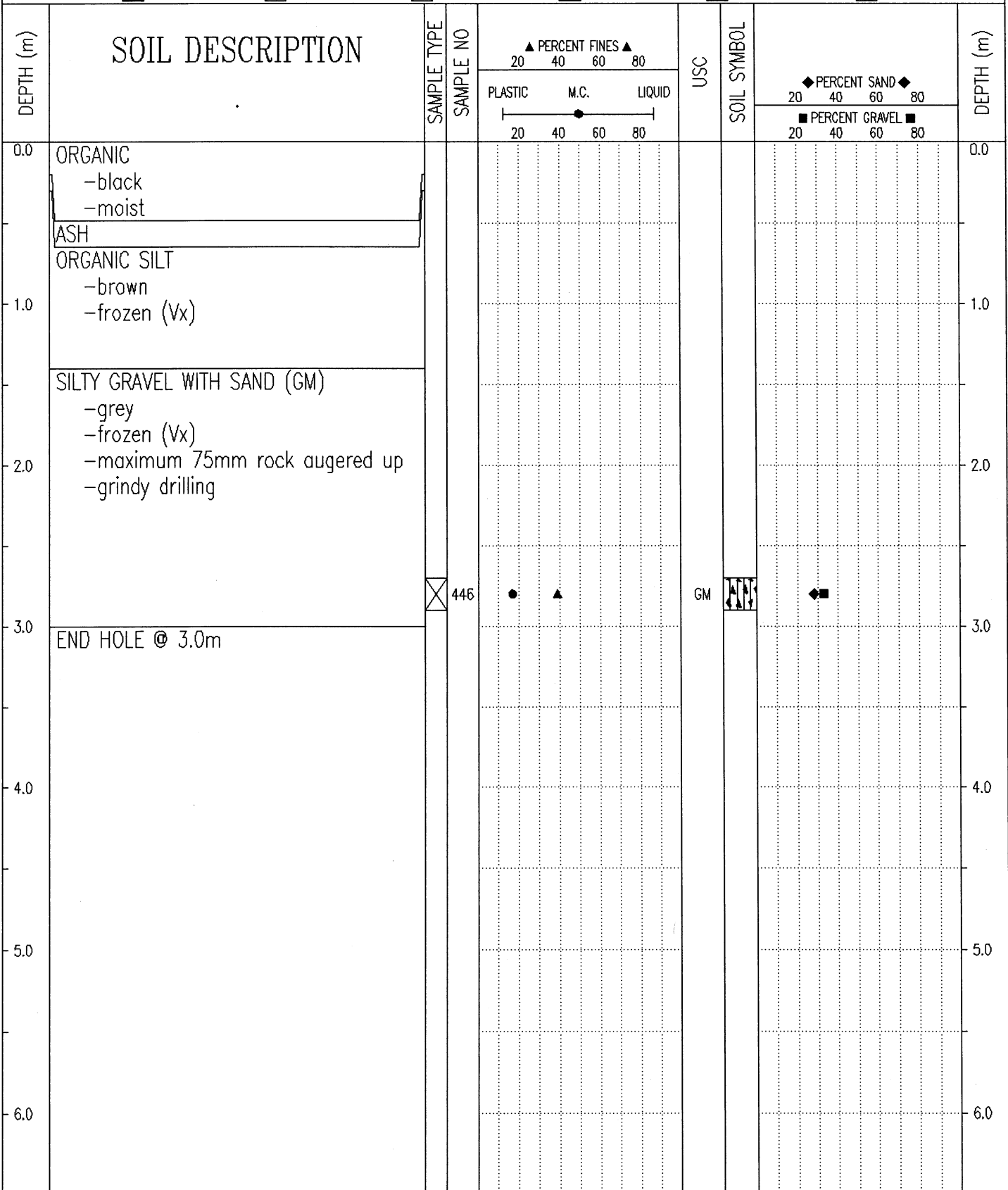
SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 608-275
ENGINEERING CAPITAL	DUKE R. TO QUILL CR.	Project No: 092-202101-0361
MOBILE DRILL B-40L 6" AUGER	LOCATION: 1784+300 10M RT.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -wet											0.0
	ASH											
1.0	ORGANIC, SILT -brown -frozen (Nb)											1.0
2.0												2.0
3.0	END HOLE @ 3.0m -refusal											3.0
4.0												4.0
5.0												5.0
6.0												6.0

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 608-274						
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361						
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1784+400 1M RT.		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	20	
0.0	ORGANIC -wet ASH ORGANIC, SILT & ICE -brown -frozen									0.0
2.0	SILTY SAND WITH GRAVEL (SM) -grey -frozen (Nb) -grindy drilling									2.0
4.5	END HOLE @ 4.5m	<input checked="" type="checkbox"/>	447			SM	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4.5
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 4.5 m COMPLETE: 01/07/23				

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 608-273
ENGINEERING CAPITAL	DUKE R. TO QUILL CR.	Project No: 092-202101-0361
MOBILE DRILL B-40L 6" AUGER	LOCATION: 1784+490 20M LT.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 608-272
ENGINEERING CAPITAL	DUKE R. TO QUILL CR.	Project No: 092-202101-0361
MOBILE DRILL B-40L 6" AUGER	LOCATION: 1784+490	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -wet ASH											0.0
1.0	ORGANIC & SILT -brown -frozen (Nb)											1.0
2.0	SILTY SAND WITH GRAVEL (SM) -grey -frozen (Nb) -maximum 75mm rock augered up -grindy drilling											2.0
3.0												3.0
4.0												4.0
4.5	END HOLE @ 4.5m	<input checked="" type="checkbox"/>	445	▲	●		SM	◆◆◆◆	◆			4.5
5.0												5.0
6.0												6.0

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 608-271						
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361						
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1784+490 20M RT.		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE			
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80		DEPTH (m)
				PLASTIC	M.C.			LIQUID	■ PERCENT GRAVEL ■ 20 40 60 80	
0.0	ORGANIC -black -moist ASH ORGANIC, SILT, & ICE -frozen									0.0
2.0	SILT WITH SAND TO SILTY SAND WITH GRAVEL (ML)-(SM) -brown -frozen (Nf) -grindy drilling	<input checked="" type="checkbox"/>	443	●	▲	ML	▣◆			2.0
3.0	END HOLE @ 3.0m	<input checked="" type="checkbox"/>	444	●	▲	SM	▣▣▣▣◆	■	◆	3.0
4.0										4.0
5.0										5.0
6.0										6.0

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COMPLETION DEPTH: 3.0 m
COMPLETE: 01/07/23

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 608-270								
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361								
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1784+575		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -wet ASH											0.0
1.0	ORGANIC SILT -frozen (Vx)											1.0
2.0	SILTY SAND WITH GRAVEL (SM) -grey -frozen (Nf) -sample contaminated by water on surface -grindy drilling	<input checked="" type="checkbox"/>	442	●	▲		SM	◆◆◆◆	■	◆		2.0
4.0	SANDY SILTY GRAVEL -smooth drilling											4.0
5.0	END HOLE @ 4.5m											5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY:		COMPLETION DEPTH: 4.5 m COMPLETE: 01/07/23		Fig. No:		Page 1 of 1		

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 608-269								
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361								
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1784+665		ELEVATION: 0.00 (m)								
SAMPLE TYPE		<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC -moist -black ASH SILTY GRAVEL WITH SAND (GM) -brown -grindy drilling -frozen (Vx) below 1.0m	<input checked="" type="checkbox"/>	440	●	▲		GM	◆	■		0.0	
3.0	SILTY SAND (SM) -brown -frozen (Nf) -smooth drilling	<input checked="" type="checkbox"/>	441	▲			SM	◆	■		3.0	
4.0	SANDY SILTY GRAVEL -grindy drilling ICE -smooth drilling										4.0	
5.0	END HOLE @ 4.5m										5.0	
6.0											6.0	

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 Fig. No:

COMPLETION DEPTH: 4.5 m
 COMPLETE: 01/07/23

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 608-268						
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361						
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1784+700 17M LT.		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80		DEPTH (m)
				PLASTIC M.C. LIQUID 20 40 60 80				■ PERCENT GRAVEL ■ 20 40 60 80		
0.0	ORGANIC -moist ASH ORGANIC SILT -frozen (Vx)									0.0
2.0	SILTY SAND WITH GRAVEL (SM) -grey -frozen (Nf) -grindy drilling									2.0
3.0	END HOLE @ 3.0m	<input checked="" type="checkbox"/>	439	● ▲		SM		■ ◆		3.0
4.0										4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 3.0 m COMPLETE: 01/07/23		Page 1 of 1		

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 608-267						
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361						
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1784+741 2M RT.		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE			
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	20	
0.0	ORGANIC -black -moist									0.0
	ASH									
	SILTY ORGANIC -frozen below .4m									
1.0	SILTY SAND (ML) -brown -frozen (Vx)	<input checked="" type="checkbox"/>	437	●	▲	ML	▨	■	◆	1.0
2.0										2.0
3.0										3.0
4.0	-grey below 4.0m -frozen (Nf) below 4.0m	<input checked="" type="checkbox"/>	438	●	▲	ML	▨	■	◆	4.0
5.0	END HOLE @ 4.5m									5.0
6.0										6.0

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Fig. No:

COMPLETION DEPTH: 3.0 m

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SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 608-266
ENGINEERING CAPITAL	DUKE R. TO QUILL CR.	Project No: 092-202101-0361
MOBILE DRILL B-40L 6" AUGER	LOCATION: 1784+890 9M RT.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -moist											0.0
	ASH											
1.0	ORGANIC -black -frozen (Vx)											1.0
	ICE, SILT & ORGANICS											
2.0	SILTY SAND WITH GRAVEL (SM) -grey -frozen (Nf) -grindy drilling											2.0
3.0												3.0
4.0												4.0
			<input checked="" type="checkbox"/> 436				SM	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
	END HOLE @ 4.5m											
5.0												5.0
6.0												6.0

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11	TEST HOLE NO: 607-263
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.	Project No: 092-202101-0361
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1785+099 21M RT.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE			

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -moist											0.0
	ASH											
1.0	ORGANIC -black -frozen (Nb)											1.0
2.0	SILT (ML) -brown -frozen (Nb) END HOLE @ 2.0m -refusal	<input checked="" type="checkbox"/>	431				ML	<input type="checkbox"/>				2.0
3.0												3.0
4.0												4.0
5.0												5.0
6.0												6.0

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Fig. No:

COMPLETION DEPTH: 2.0 m
COMPLETE: 01/07/20

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 607-264								
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361								
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1785+100		ELEVATION: 0.00 (m)								
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -moist											0.0
	ASH											
1.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Nb) below 1.1m	<input checked="" type="checkbox"/>	432	●	▲		SM	▨	■	◆		1.0
2.0												2.0
3.0												3.0
4.0	-grey below 4.0m -moist below 4.0m	<input checked="" type="checkbox"/>	433	●	▲		SM	▨	■	◆		4.0
5.0	END HOLE @ 4.5m											5.0
6.0												6.0

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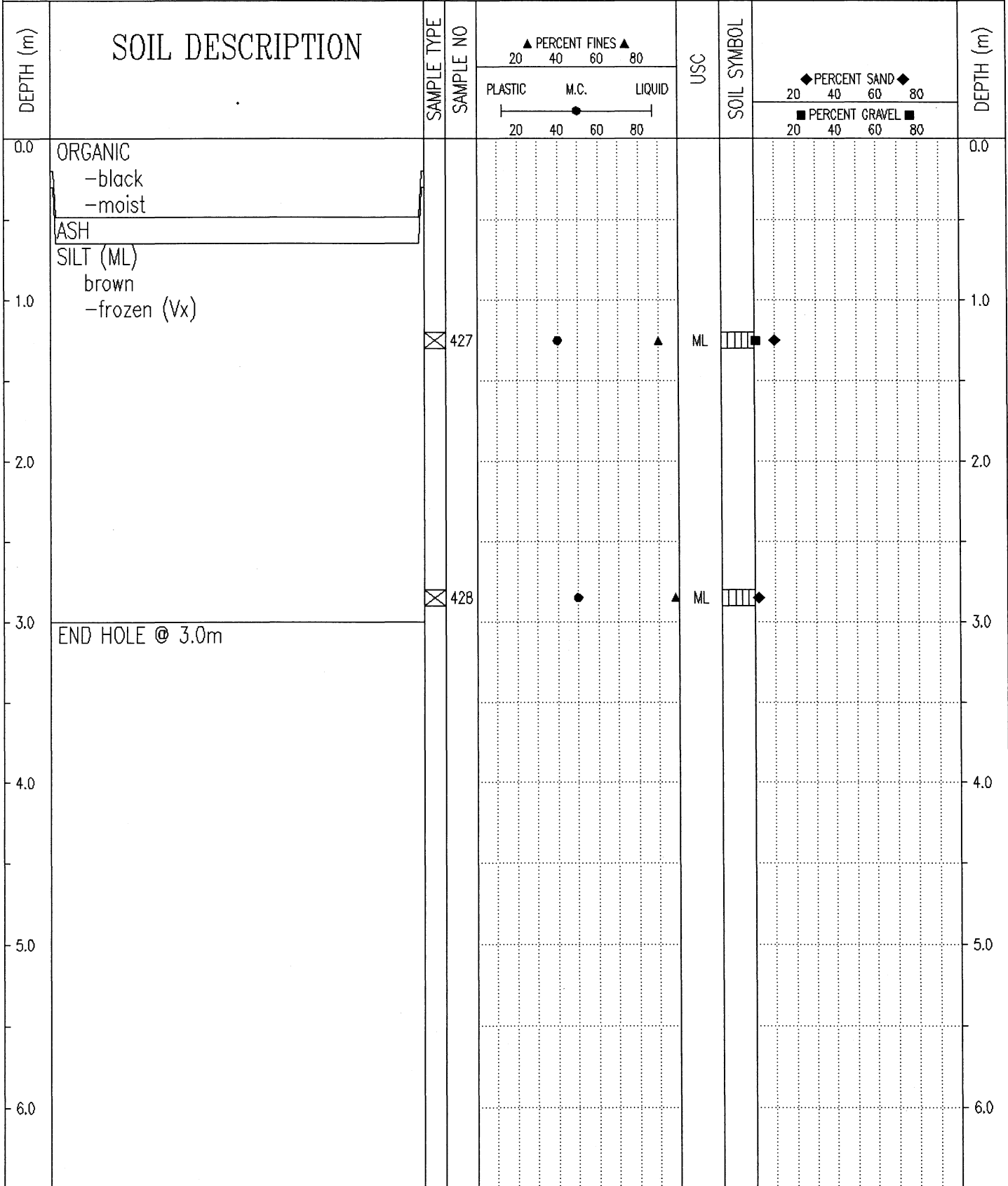
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Fig. No:

COMPLETION DEPTH: 4.5 m
COMPLETE: 01/07/20

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 607-265								
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361								
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1785+111 15M LT.		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ORGANIC -black -moist										0.0	
1.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Nb) below 0.4m										1.0	
2.0											2.0	
3.0	END HOLE @ 3.0m										3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 3.0 m						
				REVIEWED BY:		COMPLETE: 01/07/20						
				Fig. No:		Page 1 of 1						

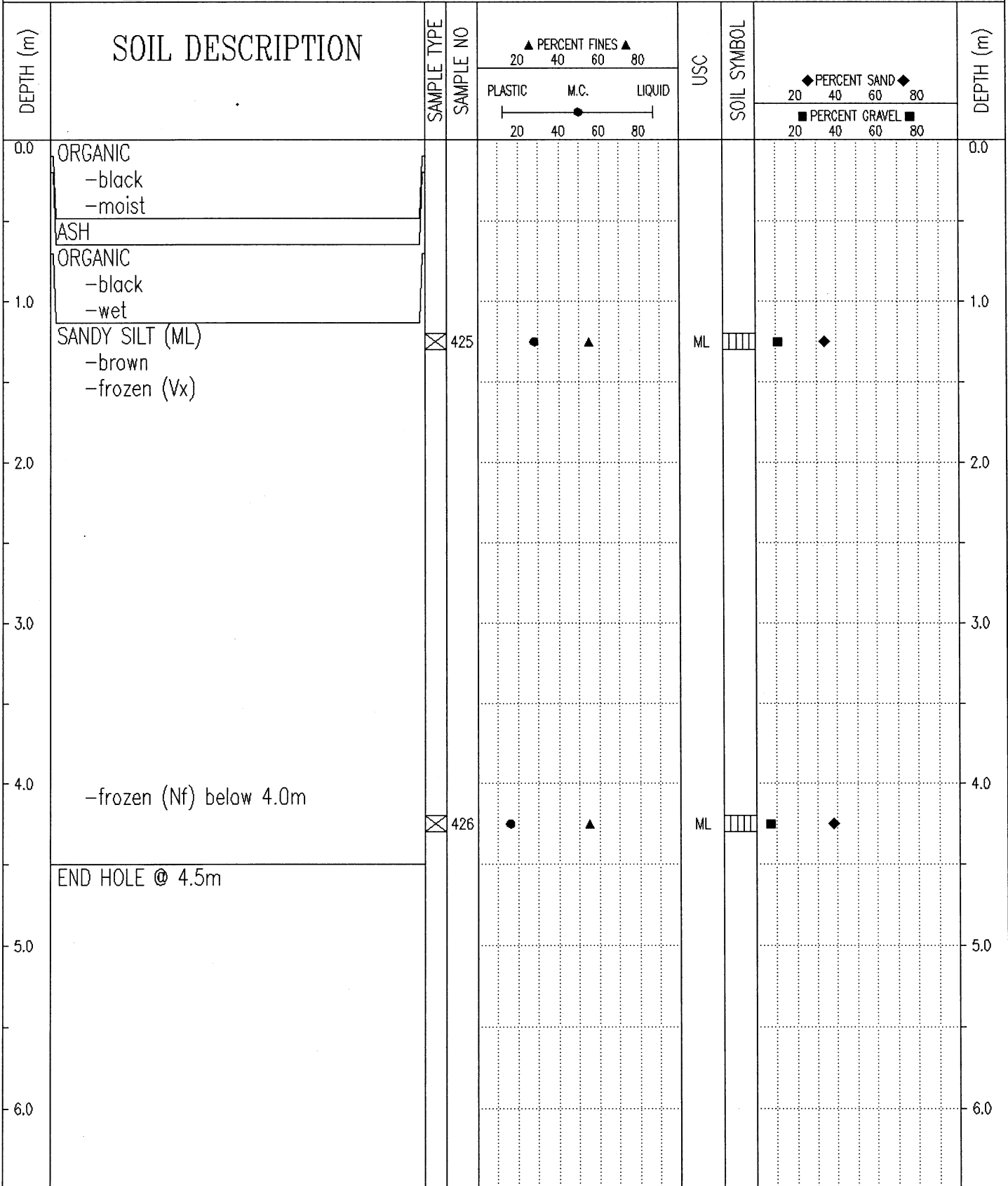
SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 607-262				
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361				
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1785+251 C.L.		ELEVATION: 0.00 (m)				
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE	
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	DEPTH (m)
				PLASTIC	M.C.			
0.0	ORGANIC -black -moist ASH							0.0
1.0	SANDY SILT (ML) -brown -frozen (Vx)		429	●	▲	ML	■ ◆	1.0
2.0								2.0
3.0								3.0
4.0	-grey below 4.0m -frozen (Nf) below 4.0m		430	●	▲	ML	■ ◆	4.0
5.0	END HOLE @ 4.5m							5.0
6.0								6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 4.5 m COMPLETE: 01/07/20		Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 607-261
ENGINEERING CAPITAL	DUKE R. TO QUILL CR.	Project No: 092-202101-0361
MOBILE DRILL B-40L 6" AUGER	LOCATION: 1785+390 19M LT.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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	REVIEWED BY:	COMPLETE: 01/07/20
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 607-260
ENGINEERING CAPITAL	DUKE R. TO QUILL CR.	Project No: 092-202101-0361
MOBILE DRILL B-40L 6" AUGER	LOCATION: 1785+391 1M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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	REVIEWED BY:	COMPLETE: 01/07/20
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 607-259									
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361									
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1785+396 20M RT.		ELEVATION: 0.00 (m)									
SAMPLE TYPE		<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE											
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)	
				PLASTIC	M.C.	LIQUID			20	40	60		80
				20	40	60	80		20	40	60	80	
				20	40	60	80		20	40	60	80	
0.0	ORGANIC -black -wet												0.0
	ASH												
1.0	SILTY SAND WITH GRAVEL TO SANDY SILT (SM)-(ML) -brown -wet	<input checked="" type="checkbox"/>	423	●	▲		SM	▨▨▨▨	■	◆			1.0
2.0	-moist below 2.0m												2.0
3.0	END HOLE @ 3.0m	<input checked="" type="checkbox"/>	424	●	▲		ML	▨▨▨▨	■	◆			3.0
4.0													4.0
5.0													5.0
6.0													6.0

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Fig. No:

COMPLETION DEPTH: 3.0 m
COMPLETE: 01/07/20

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 607-257								
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361								
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1785+513 21M LT.		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -frozen (Vx) below 0.4m											0.0
2.0	SILT WITH SAND (ML) -brown -frozen (Vx) -some organic contamination in sample 420	<input checked="" type="checkbox"/>	420		55	65	ML	<input checked="" type="checkbox"/>	45			2.0
3.0	END HOLE @ 3.0m											3.0
4.0												4.0
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 3.0 m						
				REVIEWED BY:		COMPLETE: 01/07/20						
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 607-256						
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361						
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1785+515		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE			
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	20	
0.0	ORGANIC -black -moist									0.0
	ASH									
1.0	SILTY SAND WITH GRAVEL TO SANDY SILT (SM)-(ML) -brown -frozen (Vx) below 0.5m	<input checked="" type="checkbox"/>	418	●	▲	SM	▣	◆		1.0
2.0										2.0
3.0										3.0
4.0	-frozen (Nf) below 4.0m	<input checked="" type="checkbox"/>	419	●	▲	ML	▣	◆		4.0
5.0	END HOLE @ 4.5m									5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY:		COMPLETION DEPTH: 4.5 m COMPLETE: 01/07/19				Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 607-258								
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361								
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1785+515 20M RT.		ELEVATION: 0.00 (m)								
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE					
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC -black -wet ASH											0.0
1.0	SILTY SAND WITH GRAVEL (SM) -brown -wet											1.0
2.0	-moist below 2.0m											2.0
3.0	END HOLE @ 3.0m											3.0
4.0												4.0
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 3.0 m						
				REVIEWED BY:		COMPLETE: 01/07/20						
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 607-255								
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361								
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1785+576 1M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ORGANIC -black -moist										0.0	
	ASH											
1.0	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM) -brown -frozen (Vx) below 0.5m	<input checked="" type="checkbox"/>	416	▲	●		SW-SM		■	◆	1.0	
2.0											2.0	
3.0	SANDY SILT (ML) -brown -frozen (Nf) -smooth drilling										3.0	
4.0		<input checked="" type="checkbox"/>	417	●	▲		ML	■	◆		4.0	
5.0	END HOLE @ 4.5m										5.0	
6.0											6.0	
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 4.5 m						
				REVIEWED BY:		COMPLETE: 01/07/19						
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 607-254						
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361						
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1785+735 20M LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80		DEPTH (m)
				PLASTIC M.C. LIQUID 20 40 60 80				■ PERCENT GRAVEL ■ 20 40 60 80		
0.0	ORGANIC -black -moist									0.0
	ASH									
1.0	SANDY SILT (ML) -brown -frozen (Nb) below 0.4m -smooth drilling below 0.6m	<input checked="" type="checkbox"/>	415	●	▲	ML	■ ◆			1.0
2.0										2.0
3.0	END HOLE @ 3.0m									3.0
4.0										4.0
5.0										5.0
6.0										6.0

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 607-253								
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361								
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1785+735 C.L.		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ORGANIC -black -moist										0.0	
1.0	SILTY SAND WITH GRAVEL TO SANDY SILT (SM)-(ML) -brown -frozen (Nb) below 0.8m -grindy drilling below 1.0m	<input checked="" type="checkbox"/>	413	●	▲		SM		■	◆	1.0	
2.0	-frozen (Nf) below 2.0m										2.0	
3.0	END HOLE @ 3.0m	<input checked="" type="checkbox"/>	414	●	▲		ML		■	◆	3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 3.0 m COMPLETE: 01/07/19		Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 607-251								
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361								
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1785+746 38M RT.		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC & SILT (ML) -some sand -black -frozen (Nb) below 0.5m	<input checked="" type="checkbox"/>	409				ML					0.0
2.0	GRAVELLY SILT WITH SAND (ML) -brown -frozen (Nf) -easy grindy drilling	<input checked="" type="checkbox"/>	410				SM					2.0
3.0	END HOLE @ 3.0m											3.0
4.0												4.0
5.0												5.0
6.0												6.0

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COMPLETION DEPTH: 3.0 m

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 607-252						
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361						
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1785+825 2M LT.		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE			
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	20	
0.0	ORGANIC -black -moist									0.0
	ASH									
1.0	ORGANIC -black -moist									1.0
	SILTY SAND WITH GRAVEL (SM) -brown -wet -smooth drilling -water flowing into hole 1.5 to 2.0m	<input checked="" type="checkbox"/>	411	●	▲	SM	▨▨▨▨	■	◆	
2.0										2.0
3.0										3.0
4.0	-grey below 4.0m -frozen (Nf) below 4.0m	<input checked="" type="checkbox"/>	412	●	▲	SM	▨▨▨▨	■	◆	4.0
5.0	END HOLE @ 4.5m									5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 4.5 m				
				REVIEWED BY:		COMPLETE: 01/07/19				
				Fig. No:		Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 607-250						
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361						
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1785+900 28M RT.		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80		DEPTH (m)
				PLASTIC M.C. LIQUID 20 40 60 80				■ PERCENT GRAVEL ■ 20 40 60 80		
0.0	ORGANIC -black -moist									0.0
	ASH									
1.0	SANDY SILT WITH GRAVEL TO SILTY GRAVEL WITH SAND (ML)-(GM) -brown -frozen (Nb) below 0.7m	<input checked="" type="checkbox"/>	407	●	▲	ML	▨	■	◆	1.0
2.0										2.0
3.0	END HOLE @ 3.0m	<input checked="" type="checkbox"/>	408	●▲		GM	▨	■	◆	3.0
4.0										4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 3.0 m COMPLETE: 01/07/19		Page 1 of 1		

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 607-249								
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361								
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1785+975 5M RT.		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲			USC	SOIL SYMBOL	◆ PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	OLD ROAD DITCH GRAVEL -grey -wet -smooth grindy drilling										0.0	
1.0	ORGANIC -black -moist										1.0	
2.0	ASH SILTY SAND (SM) -some gravels -brown -wet to satuarated material between 1.5 to 2.0 -moist below 2.0m										2.0	
3.0											3.0	
4.0											4.0	
4.5	END HOLE @ 4.5m	<input checked="" type="checkbox"/>	406	●	▲		SM	▨▨▨▨	■	◆	4.5	
5.0											5.0	
6.0											6.0	

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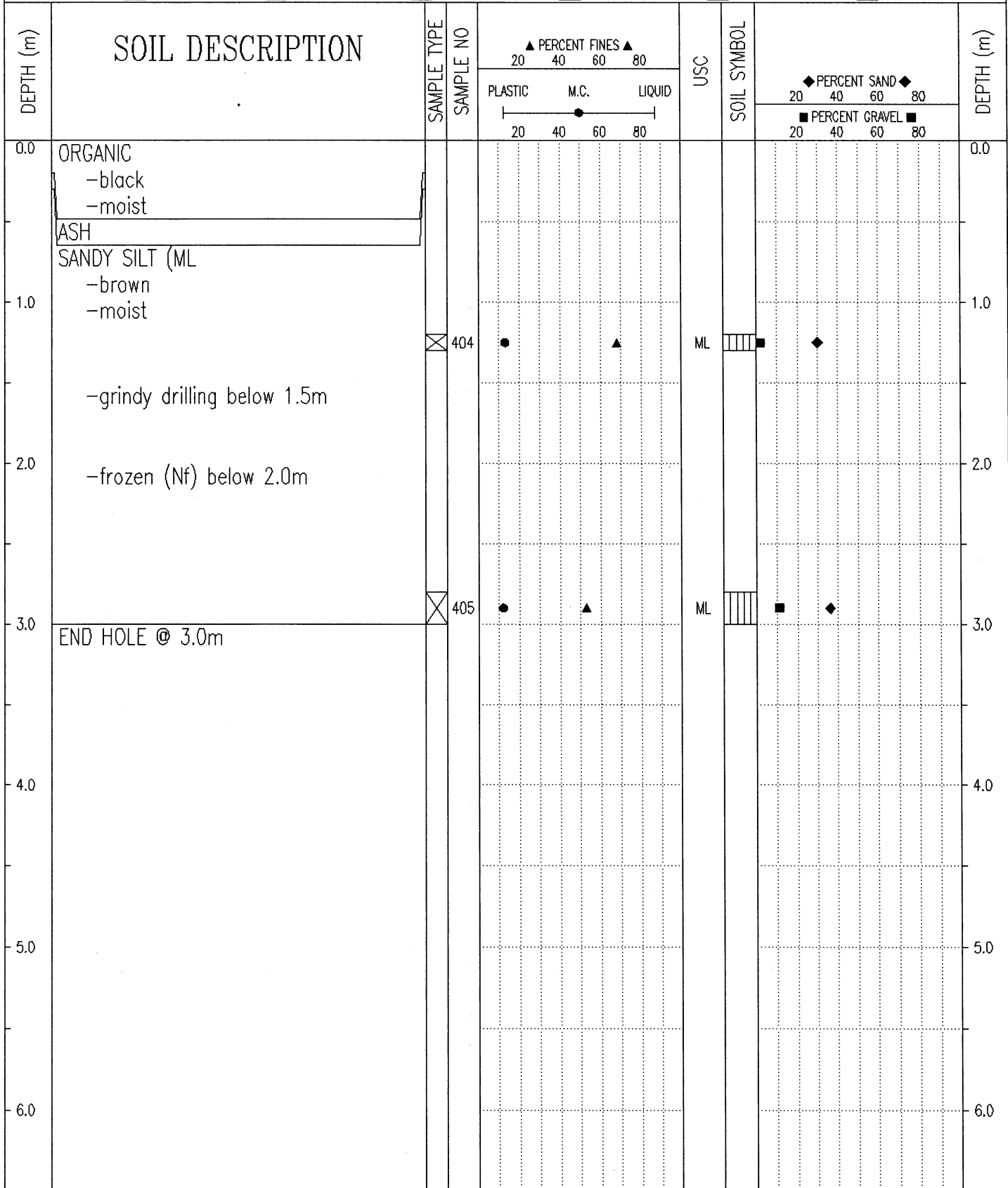
Fig. No:

COMPLETION DEPTH: 4.5 m

COMPLETE: 01/07/19

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SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 607-248
ENGINEERING CAPITAL	DUKE R. TO QUILL CR.	Project No: 092-202101-0361
MOBILE DRILL B-40L 6" AUGER	LOCATION: 1786+050 27M RT.	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE	



Government of Yukon Transportation Engineering	LOGGED BY: B.B.	COMPLETION DEPTH: 3.0 m
	REVIEWED BY:	COMPLETE: 01/07/19
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 607-247						
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361						
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1786+125 6M RT.		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE			
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆	■ PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.					
0.0	ORGANIC -black -moist									0.0
1.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -brown -moist -smooth grindy drilling	<input checked="" type="checkbox"/>	401	●			GP-GM	◆	■	1.0
2.0	SILTY SAND WITH GRAVEL TO SILTY SAND (SM) -brown -saturated -easy drilling									2.0
3.0		<input checked="" type="checkbox"/>	402	●	▲		SM	◆	■	3.0
4.0	-hard grindy drilling below 3.5m -wet below 4.0m									4.0
5.0	END HOLE @ 4.5m	<input checked="" type="checkbox"/>	403	●	▲		SM	◆	■	5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 4.5 m COMPLETE: 01/07/19		Page 1 of 1		

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 607-246								
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361								
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1786+197 33M RT.		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -moist											0.0
1.0	SILTY SAND WITH GRAVEL (SM) -brown -moist -maximum 25mm material augered up -grindy drilling	<input checked="" type="checkbox"/>	400	●	▲		SM	◆◆◆◆	◆			1.0
2.0	END HOLE @ 2.0m -refusal											2.0
3.0												3.0
4.0												4.0
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 2.0 m						
				REVIEWED BY:		COMPLETE: 01/07/19						
				Fig. No:		Page 1 of 1						

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 607-245								
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361								
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1786+275 6M RT.		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC -black -moist											0.0
	ASH -frozen											
1.0	SANDY SILT TO SILT WITH SAND (ML) -brown -wet											1.0
	-smooth easy drilling below 1.6m											
2.0			398	●	▲		ML	▨	◆	■		2.0
3.0			399	●	▲		ML	▨	◆	■		3.0
4.0												4.0
5.0	END HOLE @ 4.5m											5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.		COMPLETION DEPTH: 4.5 m						
				REVIEWED BY:		COMPLETE: 01/07/18						
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 607-244								
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361								
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1786+350 27M RT.		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -frozen (Vx) below 0.3m											0.0
1.0												1.0
2.0	SANDY SILT -trace of gravel -brown -frozen (Nf)											2.0
2.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Nf) -easy grindy drilling	<input checked="" type="checkbox"/>	397	●	▲		SM	◆	■			2.0
3.0	END HOLE @ 3.0m											3.0
4.0												4.0
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.B.				COMPLETION DEPTH: 3.0 m				
				REVIEWED BY:				COMPLETE: 01/07/18				
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 607-243							
ENGINEERING CAPITAL		DUKE R. TO QUILL CR.		Project No: 092-202101-0361							
MOBILE DRILL B-40L 6" AUGER		LOCATION: 1786+425 6M RT.		ELEVATION: 0.00 (m)							
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER							
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE							
				<input type="checkbox"/> CORE							
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲			USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	OLD ROAD DITCH GRAVEL										0.0
0.0 - 1.0	SILT WITH GRAVEL (ML) -brown -moist										1.0
1.0		<input checked="" type="checkbox"/>	395	●		▲	ML		◀		1.0
2.0	SILTY SAND (SM) -brown -moist -easy drilling										2.0
2.0 - 4.0											4.0
4.0		<input checked="" type="checkbox"/>	396	●	▲		SM		■	◆	4.0
4.0 - 4.5	END HOLE @ 4.5m										4.5
4.5 - 6.0											6.0

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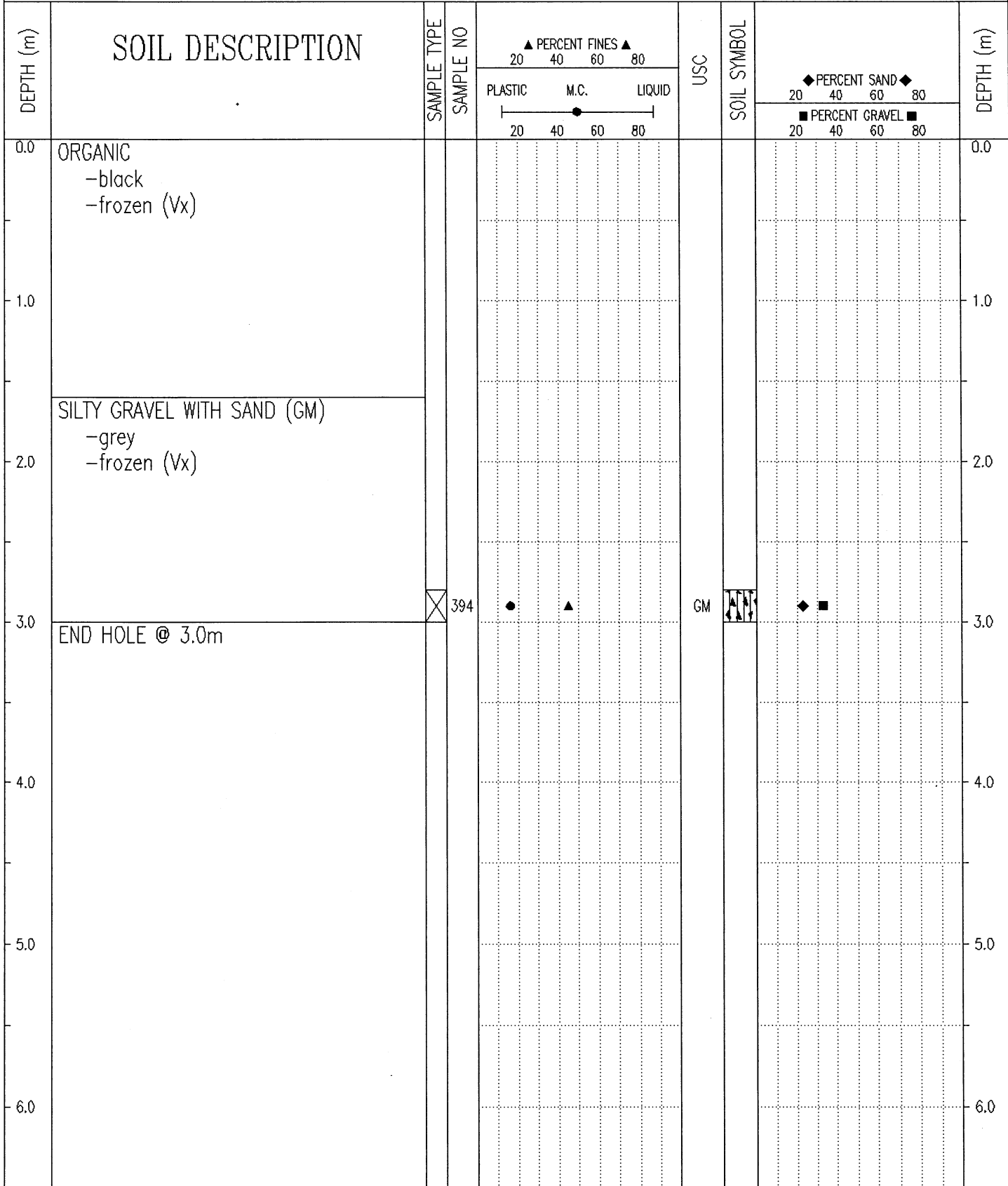
Fig. No:

COMPLETION DEPTH: 4.5 m

COMPLETE: 01/07/18

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SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 607-242
ENGINEERING CAPITAL	DUKE R. TO QUILL CR.	Project No: 092-202101-0361
MOBILE DRILL B-40L 6" AUGER	LOCATION: 1786+500 24M RT.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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