

HIGHWAY CONSTRUCTION

**km 1822.7 to km 1831.3
ALASKA HIGHWAY, Y.T.**

CENTRELINE TESTING

This Data Package prepared for project viewing:

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GR-01-088

GEOTECHNICAL INVESTIGATION
HIGHWAY CONSTRUCTION
km 1822.7 to km 1831.3, ALASKA HIGHWAY, Y.T.
CENTRELINE TESTING

CONTENTS

INTRODUCTION

Investigation notes, classification methods and legends.

CENTRELINE TESTING

Subsurface exploration and testing report sheets are provided. The reports for the centreline holes are arranged according to project location, starting at km 1822+735 and increasing to km 1831+306.

Auger Testing

1995	TEST HOLES 27 to 54	shown with prefix 353-
	TEST HOLES 55 to 92	shown with prefix 355-
	TEST HOLES 93 to 104	shown with prefix 356-
	TEST HOLES 105 and 109 to 124	shown with prefix 357-
	TEST HOLES 125 to 141	shown with prefix 358-
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Backhoe Testing

1995	TEST HOLES 257 to 260	shown with prefix 369-
	TEST HOLES 267 to 268	shown with prefix 369-

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INTRODUCTION

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GEOTECHNICAL INVESTIGATION DATA

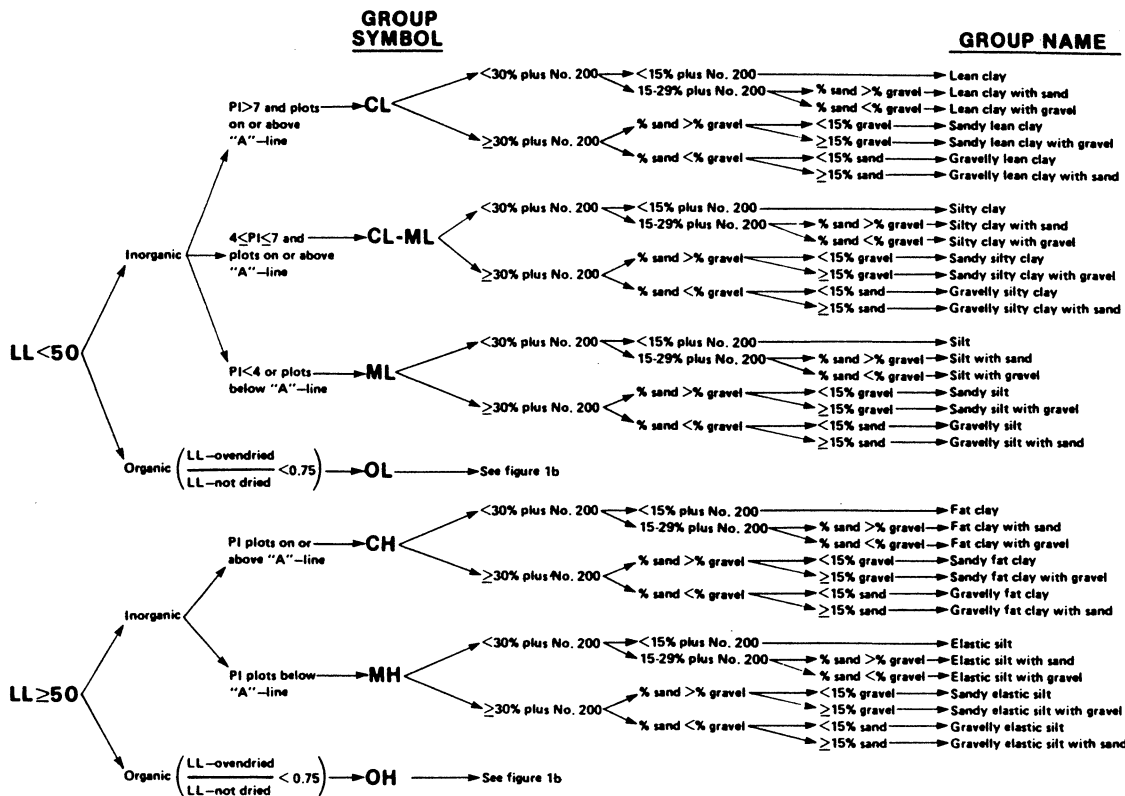
This geotechnical investigation data is provided to assist in the interpretation of soil conditions encountered within this project area. The data presented was prepared solely for Departmental designing and estimating purposes.

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 or excavation equipment used.

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.

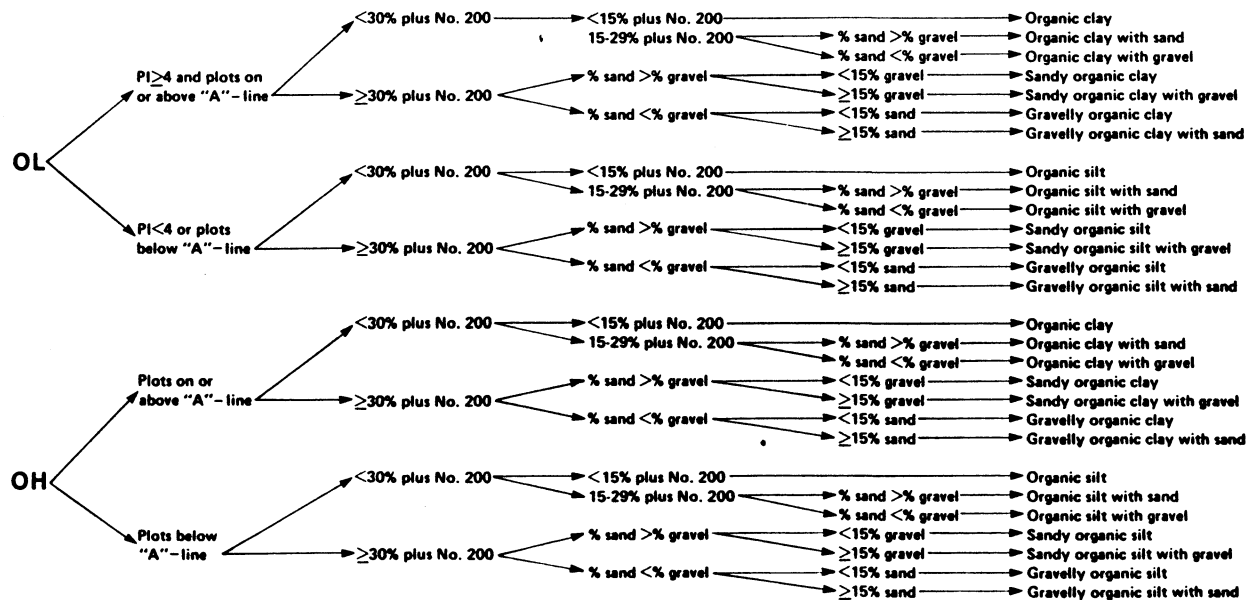
It is recommended that a site inspection, combined with consideration of the regional geology and climatic conditions be conducted. An evaluation of the investigation methods and development work done since the time of investigation should be done prior to interpreting the subsurface conditions for construction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



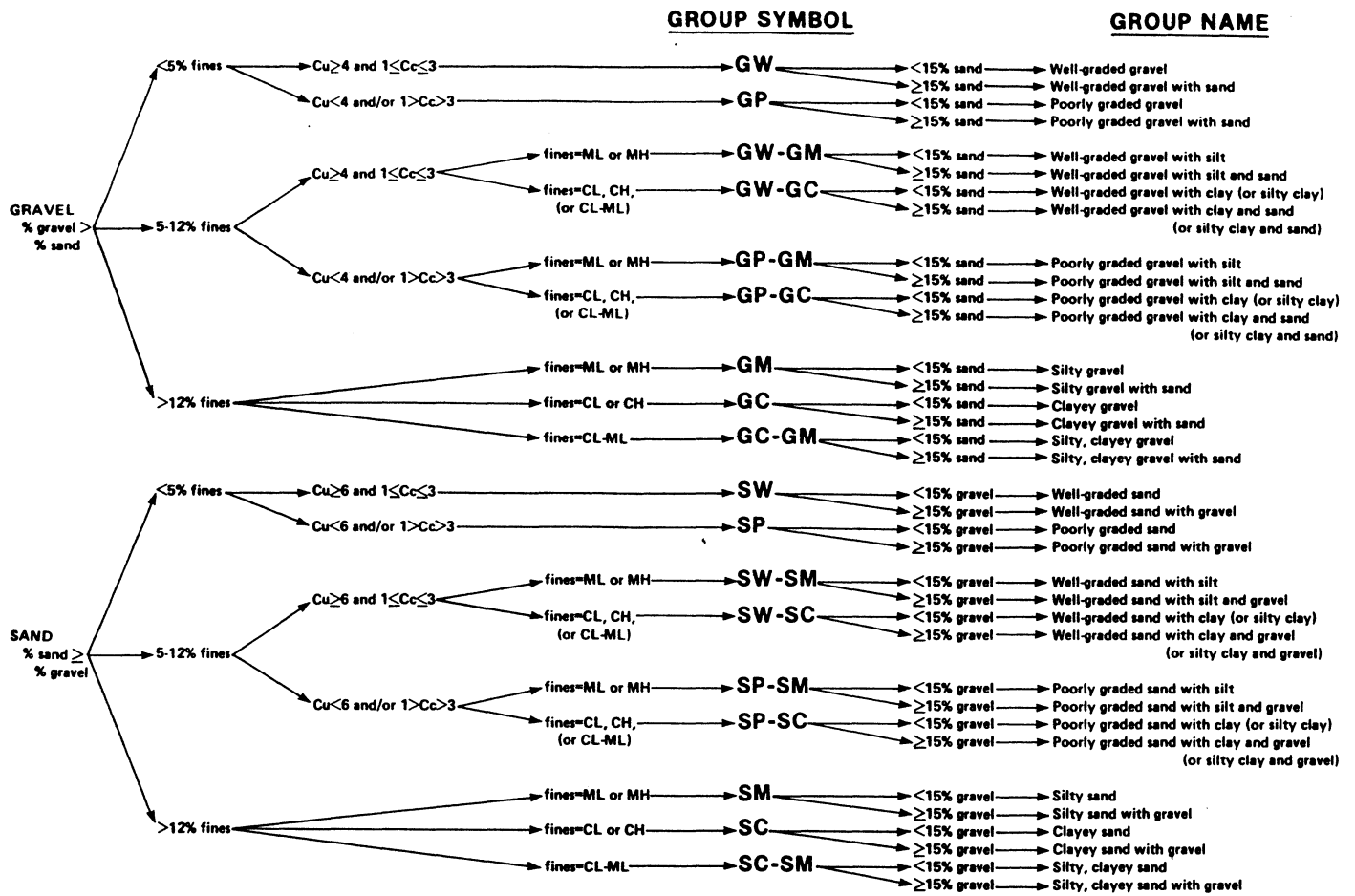
Flow chart for classifying fine-grained soil.

GROUP SYMBOL

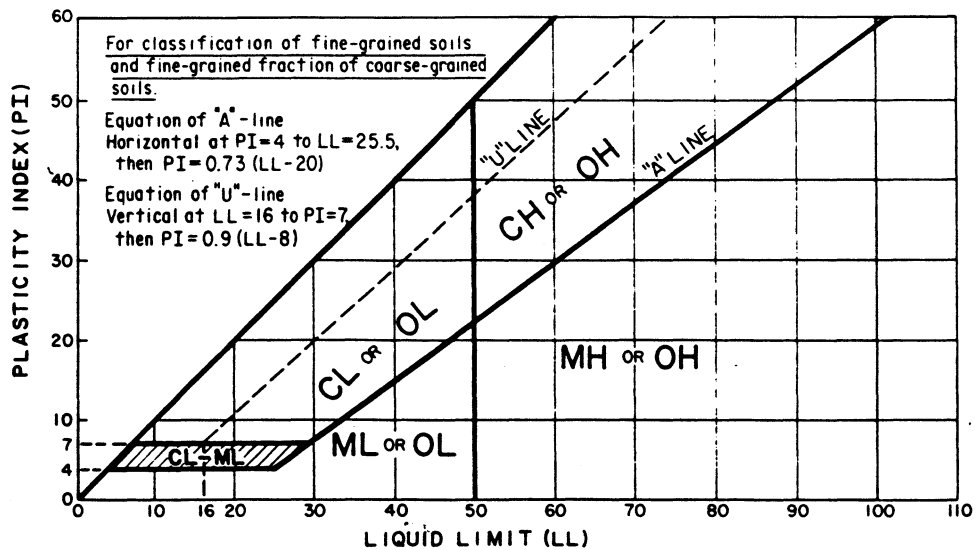
GROUP NAME



Flow chart for classifying organic soil.



Flow chart for classifying coarse-grained soil.



Plasticity chart.

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,l}	
	Fines classify as CL or CH	SC	Clayey sand ^{g,h,l}		
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	CH	Fat clay ^{k,l,m}
			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
GW-GM well graded gravel with silt
GW-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
SW-SM well graded sand with silt
SW-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-MH, 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-MH, 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	$C_u = \frac{D_{60}}{D_{10}}$ Greater than 4 $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ Between 1 and 3 Not meeting both criteria for GW Atterberg limits plot below 'A' line or plasticity index less than 4 Atterberg limits plot above 'A' line and plasticity index greater than 7
		GRAVELS WITH FINES	GP	Poorly-graded gravels and gravel-sand mixtures, little or no fines	
		GRAVELS WITH FINES	GM	Silty gravels, gravel-sand-silt mixtures	
		GRAVELS WITH FINES	GC	Clayey gravels, gravel-sand clay mixtures	
		GRAVELS 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	$C_u = \frac{D_{60}}{D_{10}}$ Greater than 6 $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ Between 1 and 3 Not meeting both criteria for SW Atterberg limits plot below 'A' line or plasticity index less than 4 Atterberg limits plot above 'A' line and plasticity index greater than 7
		CLEAN SANDS	SP	Poorly-graded sands and gravelly sands, little or no fines	
		SANDS WITH FINES	SM	Silty sands, sand-silt mixtures	
		SANDS WITH FINES	SC	Clayey sands, sand-clay mixtures	
		SANDS WITH FINES	SC	Clayey sands, sand-clay mixtures	
FINE-GRAINED SOILS 50% or more passes No. 200 sieve*	SILTS AND CLAYS Liquid limit 50% or less	ML	Inorganic silts, very fine sands, rock flour, silty or clayey fine sands	<div style="text-align: center;"> 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: $PI = 0.73(LL - 20)$ </div>	
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays		
		OL	Organic silts and organic silty clays of low plasticity		
	SILTS AND CLAYS Liquid limit greater than 50%	MH	Inorganic silts, micaceous or diatomaceous fine sands or silts, elastic silts		
		CH	Inorganic clay of high plasticity, fat clays		
		OH	Organic clays of medium to high plasticity		
		OH	Organic clays of medium to high plasticity		
	HIGHLY ORGANIC SOILS		PT		Peat, muck and other highly organic soils

GROUND ICE DESCRIPTION

ICE NOT VISIBLE

GROUP SYMBOLS	SYMBOLS	SUBGROUP DESCRIPTION	IMAGE
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	IMAGE
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	

VISIBLE ICE GREATER THAN 50% BY VOLUME

GROUP SYMBOLS	SYMBOLS	SUBGROUP DESCRIPTION	IMAGE
ICE	ICE + Soil Type	Ice with soil inclusions	
	ICE	Ice without soil inclusions (greater than 25 mm (1 in.) thick)	

NOTE:

1. Dual symbols are used to indicate borderline or mixed ice classifications
2. Visual estimates of ice contents indicated on borehole logs $\pm 5\%$
3. 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

		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	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	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								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:				

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SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT		TEST HOLE NO: 353-27									
ENGINEERING-CAPITAL		SEGMENT 14		Project No: 092-202101-0314									
DRILL: 150mm SOLID STEM AUGER		LOCATION: Sta. 1822+735 o/s 8m 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			20	40	60		80
0.0	POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM) -brown -humid -maximum 25mm material augered up -grindy drilling	⊗	90	●	▲		SP-SM	◆	■		0.0		
2.0	SILT (ML) -dark gray -damp -organic -smooth drilling	⊗	91		●	▲	ML	◆			2.0		
4.0	POORLY GRADED SAND WITH SILT (SP-SM) -brown -damp	⊗	92	●	▲		SP-SM	◆			4.0		
6.0	SANDY SILT (ML) -brown -moist	⊗	93		●	▲	ML	◆			6.0		
7.0	SILTY GRAVEL WITH SAND (GM) -brown -damp -maximum 75mm material augered up -angular -grindy drilling END HOLE at 7.2m -refusal -rock dust on bit	⊗	94	●	▲		GM	◆	■		7.0		
10.0											10.0		

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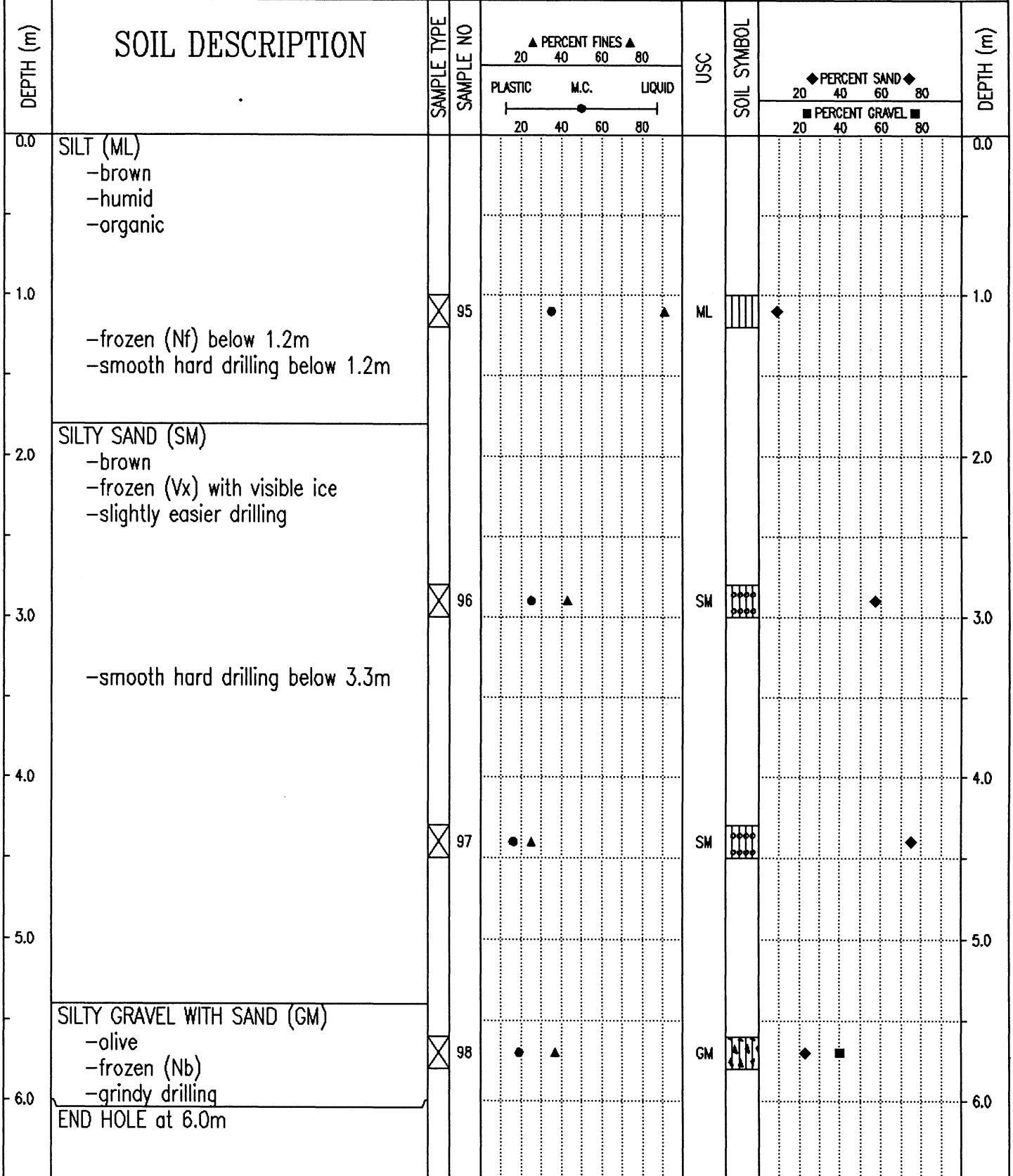
COMPLETION DEPTH: 7.2 m
COMPLETE: 95/05/12

SUBSURFACE EXPLORATION AND TEST REPORT SHAKWAK PROJECT TEST HOLE NO: 353-28

ENGINEERING-CAPITAL SEGMENT 14 Project No: 092-202101-0314

DRILL: 150mm SOLID STEM AUGER LOCATION: Sta. 1822+825 o/s 14m Lt. ELEVATION: 0.00 (m)

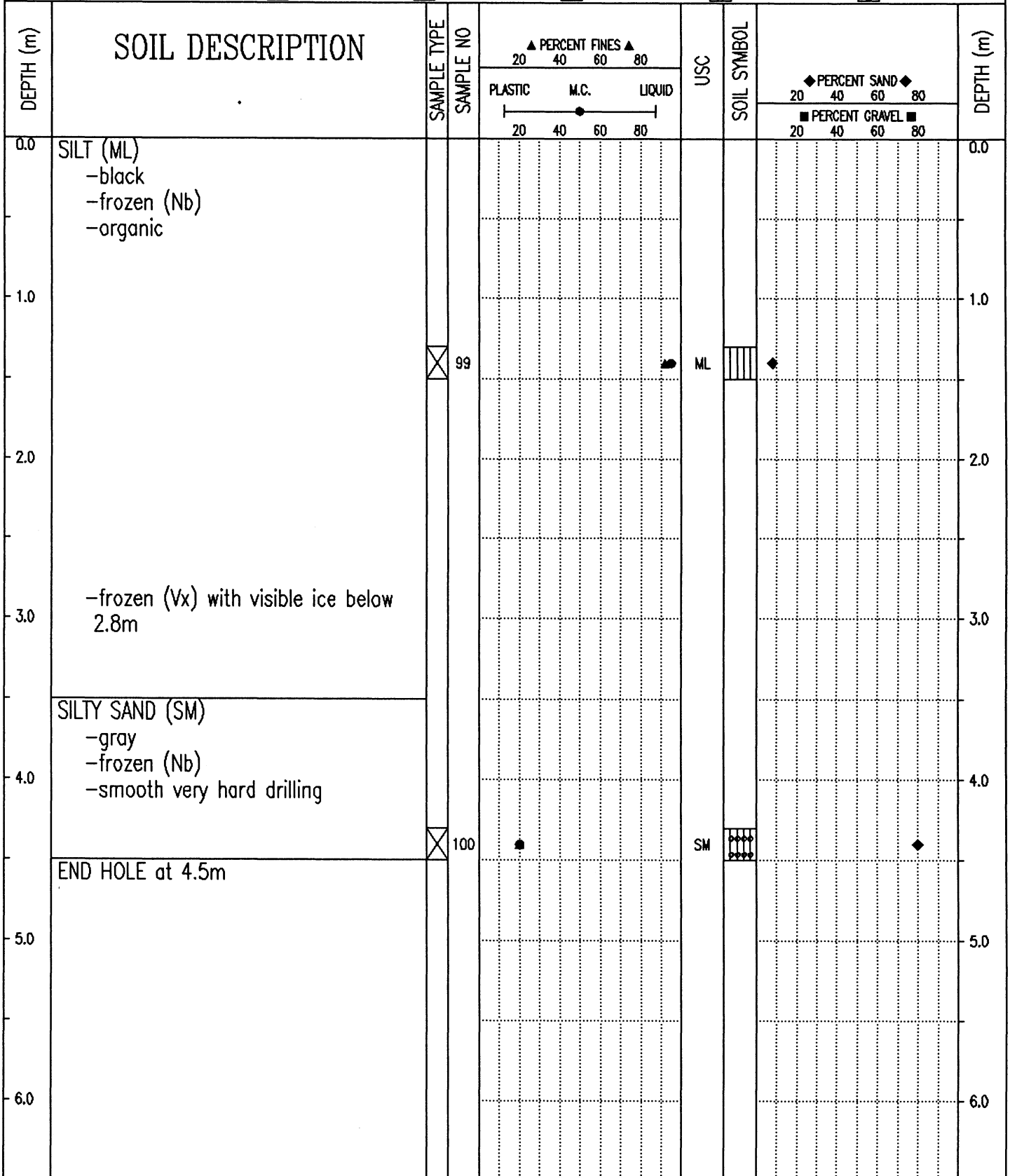
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE



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LOGGED BY: KJ COMPLETION DEPTH: 6.0 m
 REVIEWED BY: COMPLETE: 95/05/14
 Fig. No: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 353-29
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1822+925 o/s 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		



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LOGGED BY: KJ
REVIEWED BY:
Fig. No:

COMPLETION DEPTH: 4.5 m
COMPLETE: 95/05/14

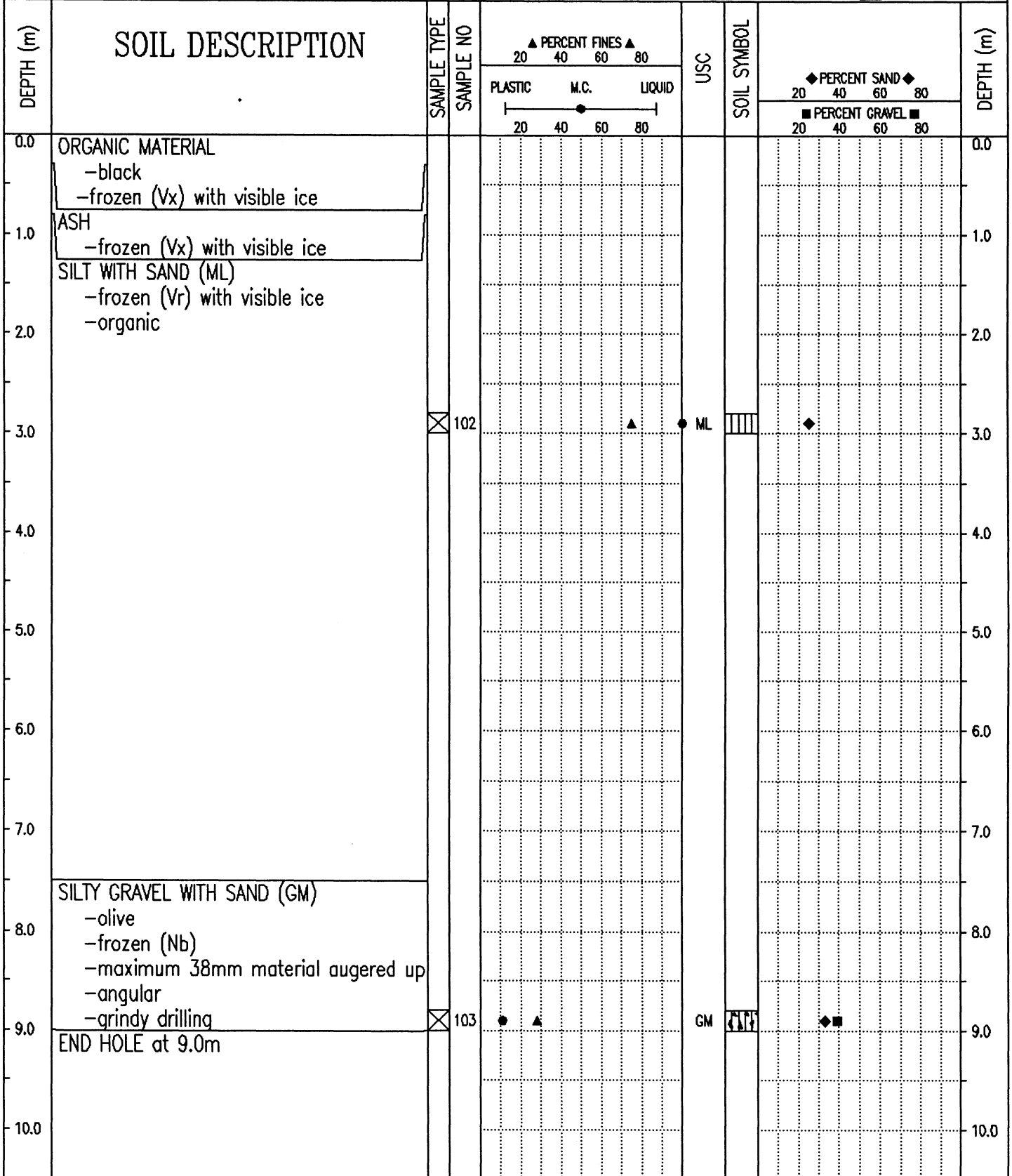
SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 353-30
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1822+950 o/s 10m Lt.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> 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	
0.0	ORGANIC MATERIAL -black -frozen (Nb)										0.0
1.0	ASH- -white ORGANIC MATERIAL -black -frozen (Vx) with visible ice										1.0
2.0											2.0
3.0	ICE -trace of organic										3.0
4.0	ICE -some soil										4.0
5.0											5.0
6.0	SILTY SAND (SM) -gray -frozen (Nb)							SM			6.0
6.0	END HOLE at 6.0m -on old pipeline		101								6.0

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	REVIEWED BY:	COMPLETE: 95/05/14
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 353-31
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1823+053	ELEVATION: 0.00 (m)

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



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LOGGED BY: KJ	COMPLETION DEPTH: 9.0 m
REVIEWED BY:	COMPLETE: 95/05/14
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 353-32
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1823+145 o/s 5m 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 ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ASH -frozen (Nf) ORGANIC MATERIAL -black -frozen (Nf)											0.0
1.0												1.0
2.0	ICE -fast smooth drilling											2.0
3.0												3.0
4.0	ORGANIC MATERIAL -frozen (Vs) with visible ice											4.0
5.0												5.0
6.0	SILT (ML) -olive -frozen (Nb) END HOLE at 6.0m	<input checked="" type="checkbox"/>	104				ML					6.0

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	REVIEWED BY:	COMPLETE: 95/05/14
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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)
				20	40	60			80	20	
0.0	ORGANIC MATERIAL -saturated -frozen (Nb) below 0.2m										0.0
1.0	ASH -saturated -frozen (Nf) below 1.0m										1.0
2.0	ORGANIC ASH -frozen (Nb)										2.0
3.0	ICE WITH ORGANICS										3.0
4.0	ICE										4.0
5.0											5.0
6.0	SILTY SAND -olive brown -frozen (Vr) with visible ice -sample #105 spilled END HOLE at 6.0m		106								6.0

95/07/05 03:02PM

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 353-34
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1823+275 o/s 13m 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)
				20	40	60			80	20		
0.0	ORGANIC MATERIAL -free water -frozen (Vx) with visible ice below 0.2m											0.0
	ASH -saturated											
1.0	ORGANIC MATERIAL -black -frozen (Nb) -trace of ash											1.0
2.0												2.0
3.0												3.0
4.0	-frozen (Vr) with visible ice below 3.6m											4.0
5.0												5.0
6.0	POORLY GRADED SAND WITH SILT (SP-SM) -olive -frozen (Nb)											6.0
	END HOLE at 6.0m -water on surface		106	▲	●		SP-SM	◆				6.0

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	REVIEWED BY:	COMPLETE: 95/05/14
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT		TEST HOLE NO: 353-35						
ENGINEERING-CAPITAL		SEGMENT 14		Project No: 092-202101-0314						
DRILL: 150mm SOLID STEM AUGER		LOCATION: Sta. 1823+390 o/s 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	
0.0	ORGANIC MATERIAL -brown -damp									0.0
	ASH -damp									
1.0	ORGANIC MATERIAL -brown -moist									1.0
2.0										2.0
3.0	-dark brown below 2.5m -frozen (Nf) below 2.5m									3.0
4.0	SILTY SAND (SM) -olive -frozen (Nb) -hard smooth drilling									4.0
5.0										5.0
6.0	END HOLE at 6.0m									6.0

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COMPLETION DEPTH: 6.0 m
COMPLETE: 95/05/14
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 353-36
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1823+500 o/s 12m 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 ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC MATERIAL -black -moist										0.0	
	ASH -frozen (Nf)											
1.0	ORGANIC MATERIAL -black -frozen (Vx) with visible ice										1.0	
2.0											2.0	
3.0											3.0	
4.0											4.0	
4.5	SILTY SAND (SM) -brown -frozen (Nb) -hard smooth drilling	<input checked="" type="checkbox"/>	109				SM	◆			4.5	
5.0	END HOLE at 4.5m										5.0	
6.0											6.0	

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Fig. No:

COMPLETION DEPTH: 4.5 m
COMPLETE: 95/05/15

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 369-257
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
BACKHOE: HITACHI EX 200 LC	LOCATION: Sta. 1823+500 o/s 30m Rt.	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 ◆		PERCENT GRAVEL ■	DEPTH (m)
				20	40	60			80	20		
0.0	ORGANIC MATERIAL -smooth easy digging											0.0
	ASH -frozen below 0.6m											
1.0	ORGANIC MATERIAL -black -frozen (Nb) -smooth hard digging											1.0
2.0												2.0
3.0	SILTY SANDY GRAVEL -frozen with visible ice -cobbles -hard noisy digging											3.0
4.0	END HOLE at 3.5m -refusal											4.0
5.0												5.0
6.0												6.0

Government of Yukon Transportation Engineering	LOGGED BY: DT	COMPLETION DEPTH: 3.5 m
	REVIEWED BY:	COMPLETE: 95/07/07
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT	TEST HOLE NO: 369-258
ENGINEERING-CAPITAL		SEGMENT 14	Project No: 092-202101-0314
BACKHOE: HITACHI EX 200 LC		LOCATION: Sta. 1823+525 o/s 45m 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

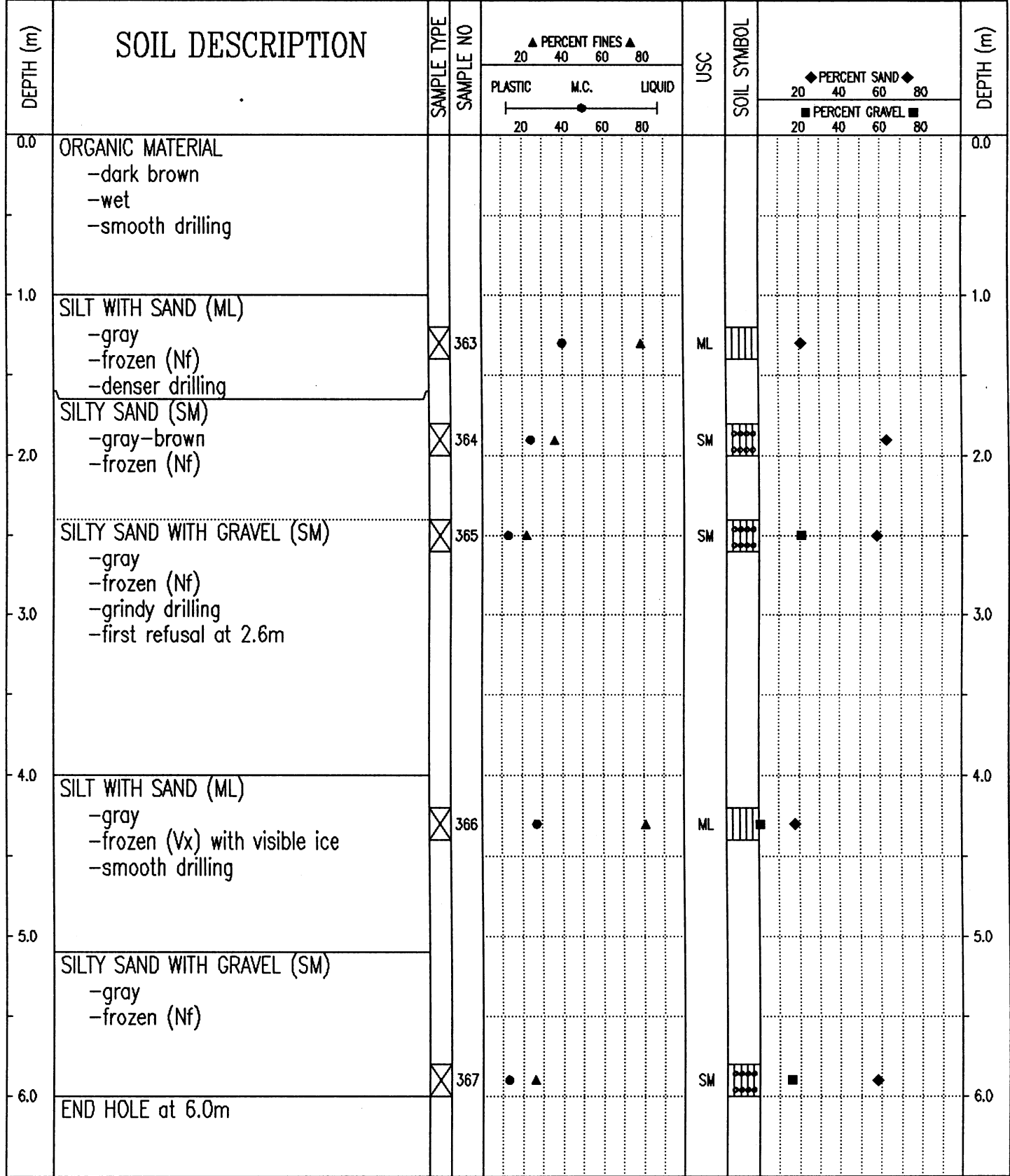
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲			USC	SOIL SYMBOL	◆ PERCENT SAND ◆		■ PERCENT GRAVEL ■	DEPTH (m)
				20	40	60			80	20		
				PLASTIC	M.C.	LIQUID						
				20	40	60	80					
0.0	ORGANIC MATERIAL -smooth easy digging											0.0
1.0	ASH -light gray -frozen (Vx) with visible ice -smooth hard digging											1.0
2.0	ORGANIC MATERIAL -black -frozen (Vx) with visible ice											2.0
3.0												3.0
4.0	END HOLE at 3.5m -refusal											4.0
5.0												5.0
6.0												6.0

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Fig. No:

COMPLETION DEPTH: 3.5 m
COMPLETE: 95/07/07

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



95/11/16 03:52PM

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 353-37
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1823+600 o/s 25m 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	POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM) -brown -saturated -maximum 75mm material augered up -sub-angular -grindy drilling -refusal once at 1.0m	<input checked="" type="checkbox"/>	110	▲	●	▲	SP-SM	◆	◆	■	0.0	
1.0											1.0	
2.0	END HOLE at 1.4m -refusal twice at 1.4m -water on surface -surface gravel to 300mm										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: KJ	COMPLETION DEPTH: 1.4 m
	REVIEWED BY:	COMPLETE: 95/05/15
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 353-38
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1823+712 o/s 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	
0.0	ICY ORGANIC ASH											0.0
0.0 - 1.0	POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM) -brown -frozen -maximum 50mm material augered up -grindy drilling -easy grindy drilling below 1.3m	<input checked="" type="checkbox"/>	111	●			GP-GM	▲▲▲▲	◆	■		1.0
1.0 - 3.0	POORLY GRADED SAND WITH SILT (SP-SM) -brown -saturated											3.0
3.0 - 4.5	END HOLE at 4.5m -water on surface	<input checked="" type="checkbox"/>	112	●▲			SP-SM	○○○○	■	◆		4.5
4.5 - 6.0												6.0

Government of Yukon Transportation Engineering	LOGGED BY: KJ	COMPLETION DEPTH: 4.5 m
	REVIEWED BY:	COMPLETE: 95/05/15
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 362-150
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm Dia. SOLID STEM AUGER	LOCATION: Sta. 1823+720 o/s 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	
0.0	ORGANIC MATERIAL -dark brown -frozen -smooth drilling										0.0
1.0	ASH -light gray -frozen -denser drilling										1.0
2.0	ORGANIC MATERIAL -dark brown -frozen										2.0
3.0	GRAVELLY SANDY SILT -gray -frozen -grindy drilling										3.0
4.0	ORGANIC MATERIAL -dark brown -frozen -smooth drilling -frozen with visible ice below 3.8m										4.0
5.0	ICE										5.0
6.0											6.0
7.0	SILTY SAND (SM) -brown -frozen (Nf)		362				SM	◆	◆		7.0
8.0	END HOLE at 7.5m										8.0
9.0											9.0
10.0											10.0

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REVIEWED BY:
Fig. No:

COMPLETION DEPTH: 7.5 m
COMPLETE: 95/05/30

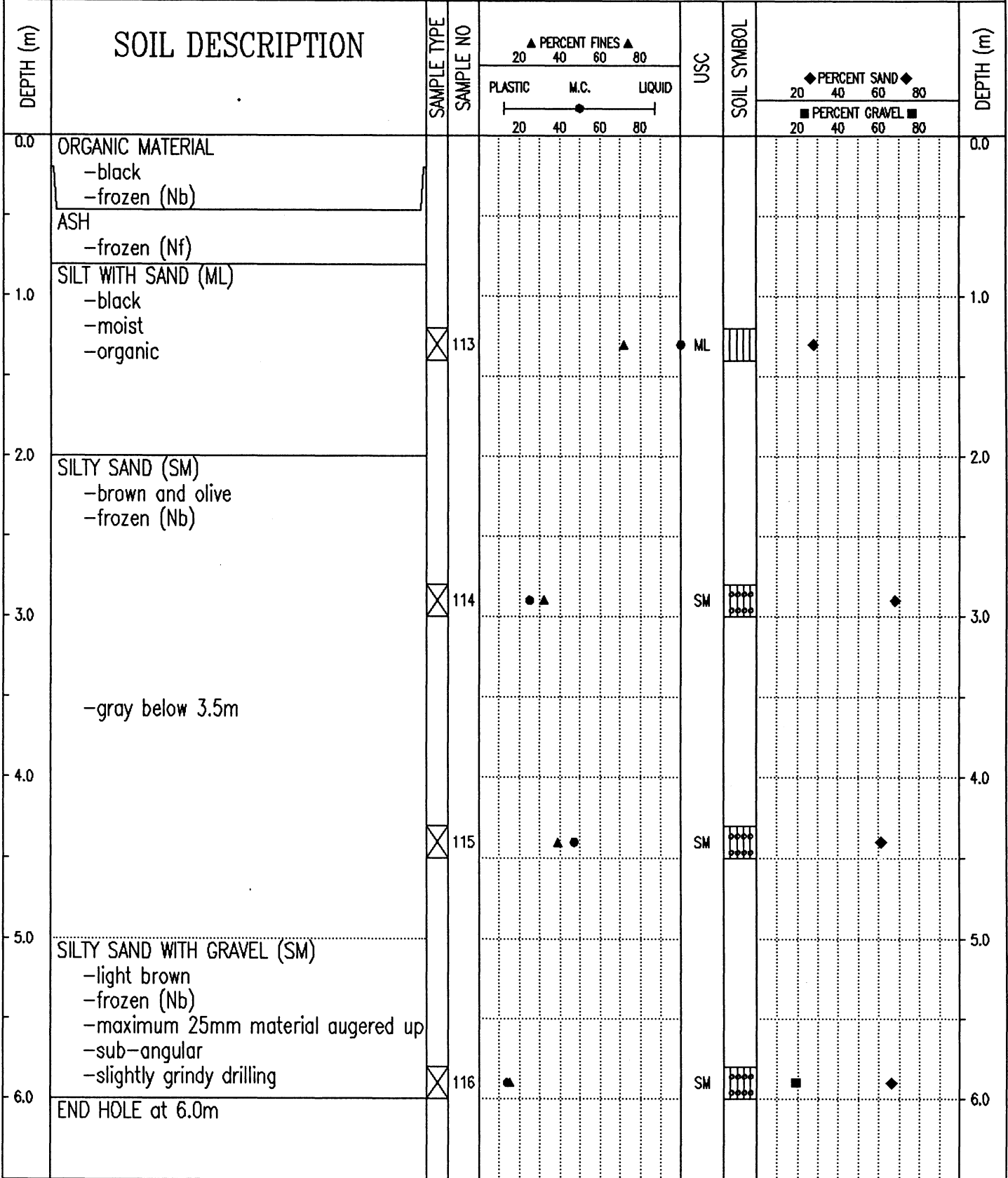
SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 362-149
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm Dia. SOLID STEM AUGER	LOCATION: Sta. 1823+848 o/s 20m Rt.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> 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	
0.0	ORGANIC MATERIAL -dark brown -saturated										0.0
1.0	ASH -light gray -frozen -smooth drilling										1.0
2.0	ORGANIC MATERIAL -dark brown -frozen										2.0
3.0	SILT -gray -frozen -trace of sand										3.0
4.0	SILT WITH SAND (ML) -dark brown -frozen (Vx) with visible ice -very high organic content										4.0
5.0											5.0
6.0	END HOLE at 6.0m	<input checked="" type="checkbox"/>	361				ML				6.0

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LOGGED BY: CC	COMPLETION DEPTH: 6.0 m
REVIEWED BY:	COMPLETE: 95/05/30
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SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE



95/07/05 03:13PM

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 369-259
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
BACKHOE: HITACHI EX 200 LC	LOCATION: Sta. 1823+850 o/s 30m Rt.	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 ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC MATERIAL -smooth easy digging											0.0
1.0	ASH -light gray -frozen (Vx) with visible ice -smooth hard digging											1.0
2.0	ORGANIC MATERIAL -frozen (Vx) with visible ice -some sand silt layers											2.0
3.0												3.0
4.0	END HOLE at 4.0m											4.0
5.0												5.0
6.0												6.0

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LOGGED BY: DT	COMPLETION DEPTH: 4.0 m
REVIEWED BY:	COMPLETE: 95/07/08
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 369-260
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
BACKHOE: HITACHI EX 200 LC	LOCATION: Sta. 1823+900 o/s 30m Rt.	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)
				20	40	60			80	20	40	
0.0	ORGANIC MATERIAL -smooth easy digging											0.0
1.0	ASH -gray -frozen (Vx) with visible ice -smooth hard digging											1.0
2.0	ORGANIC MATERIAL -black -frozen (Vx) with ice lenses											2.0
3.0	ORGANIC SILTY SANDY GRAVEL -frozen with ice lenses -cobbles											3.0
4.0	ORGANIC GRAVELLY SILT -ice lenses											4.0
5.0	END HOLE at 3.5m											5.0
6.0												6.0

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LOGGED BY: DT	COMPLETION DEPTH: 3.5 m
REVIEWED BY:	COMPLETE: 95/07/08
Fig. No:	Page 1 of 1

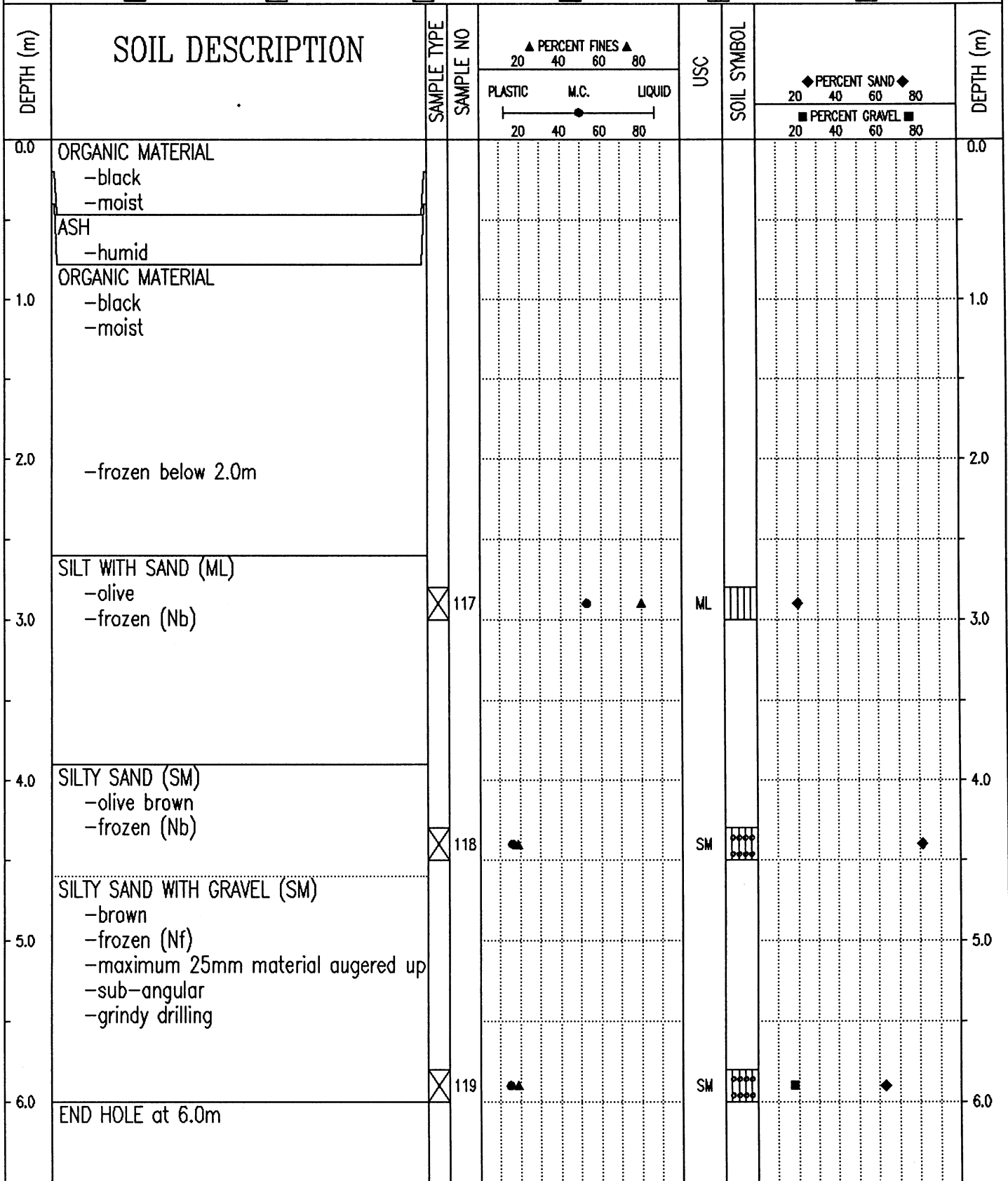
SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 362-148
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm Dia. SOLID STEM AUGER	LOCATION: Sta. 1823+904 o/s 20m Rt.	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN	<input checked="" 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 ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC MATERIAL -dark brown -frozen -smooth drilling											0.0
1.0	ASH -light gray -frozen											1.0
2.0	ORGANIC MATERIAL -dark brown -frozen											2.0
2.0	SANDY SILT (ML) -gray -frozen (Nf)	<input checked="" type="checkbox"/>	360				ML					2.0
3.0	ORGANIC MATERIAL -dark brown -frozen with visible ice											3.0
4.0	ICE											4.0
5.0												5.0
6.0	END HOLE at 6.0m											6.0

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LOGGED BY: CC	COMPLETION DEPTH: 6.0 m
REVIEWED BY:	COMPLETE: 95/05/30
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 353-40
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1823+975 o/s 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		



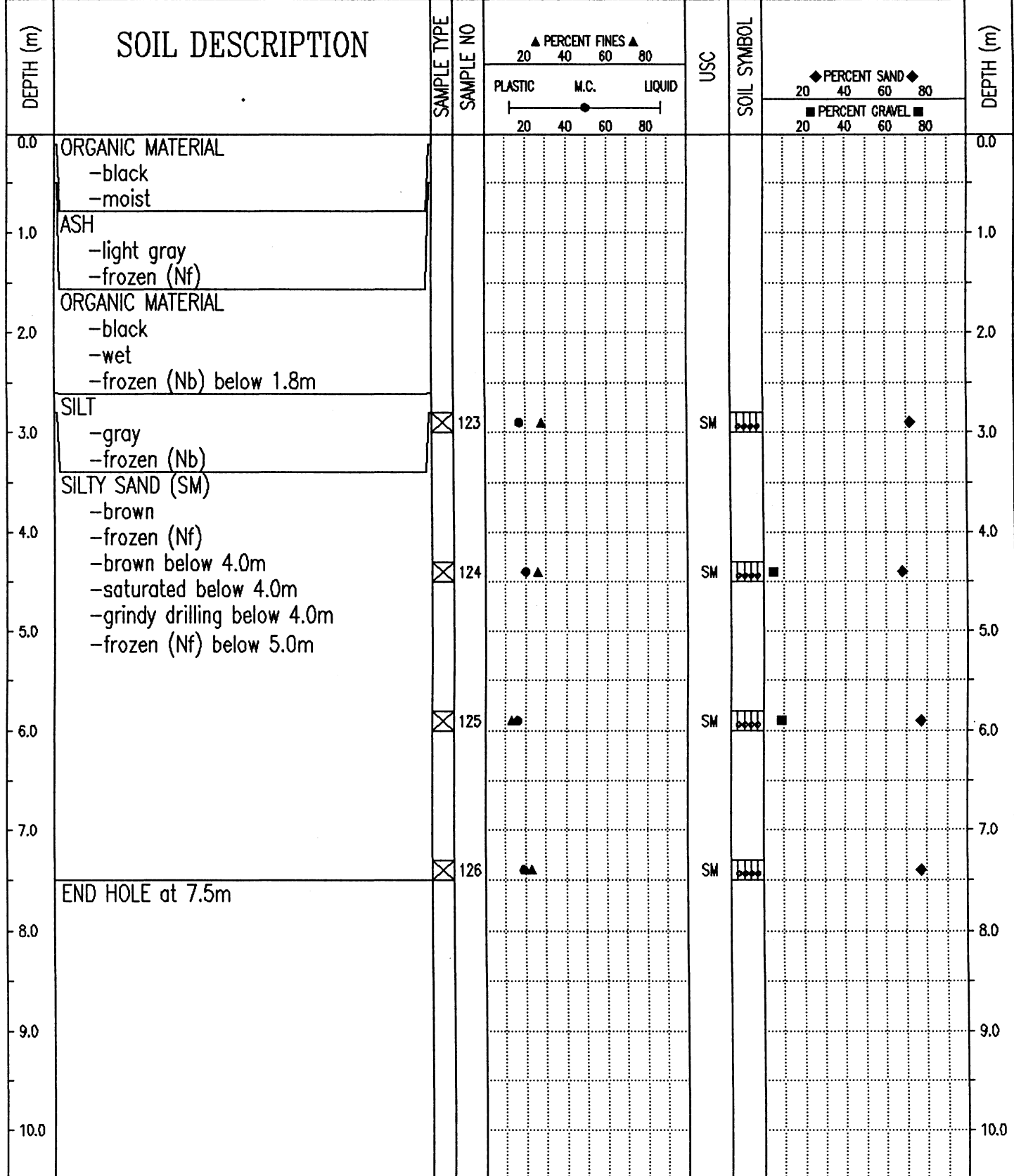
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LOGGED BY: KJ	COMPLETION DEPTH: 6.0 m
REVIEWED BY:	COMPLETE: 95/05/15
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT		TEST HOLE NO: 353-41								
ENGINEERING-CAPITAL		SEGMENT 14		Project No: 092-202101-0314								
DRILL: 150mm SOLID STEM AUGER		LOCATION: Sta. 1824+050 o/s 16m Lt.		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		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 MATERIAL -black -frozen											0.0
	ASH -rusty											
1.0	ORGANIC MATERIAL -black -moist											1.0
2.0	POORLY GRADED SAND WITH SILT AND GRAVEL (SM) -brown -damp -grindy drilling	<input checked="" type="checkbox"/>	120	●			SP-SM	○○○○	■	◆		2.0
3.0												3.0
4.0												4.0
5.0												5.0
6.0	POORLY GRADED SAND WITH SILT (SM) -brown -damp	<input checked="" type="checkbox"/>	121	●			SP-SM	○○○○	■	◆		6.0
6.0	END HOLE at 6.0m	<input checked="" type="checkbox"/>	122	●			SP-SM	○○○○	■	◆		6.0
Government of Yukon Transportation Engineering				LOGGED BY: KJ REVIEWED BY: Fig. No:				COMPLETION DEPTH: 6.0 m COMPLETE: 95/05/15				

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 353-42
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1824+100 o/s 14m Lt.	ELEVATION: 0.00 (m)

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



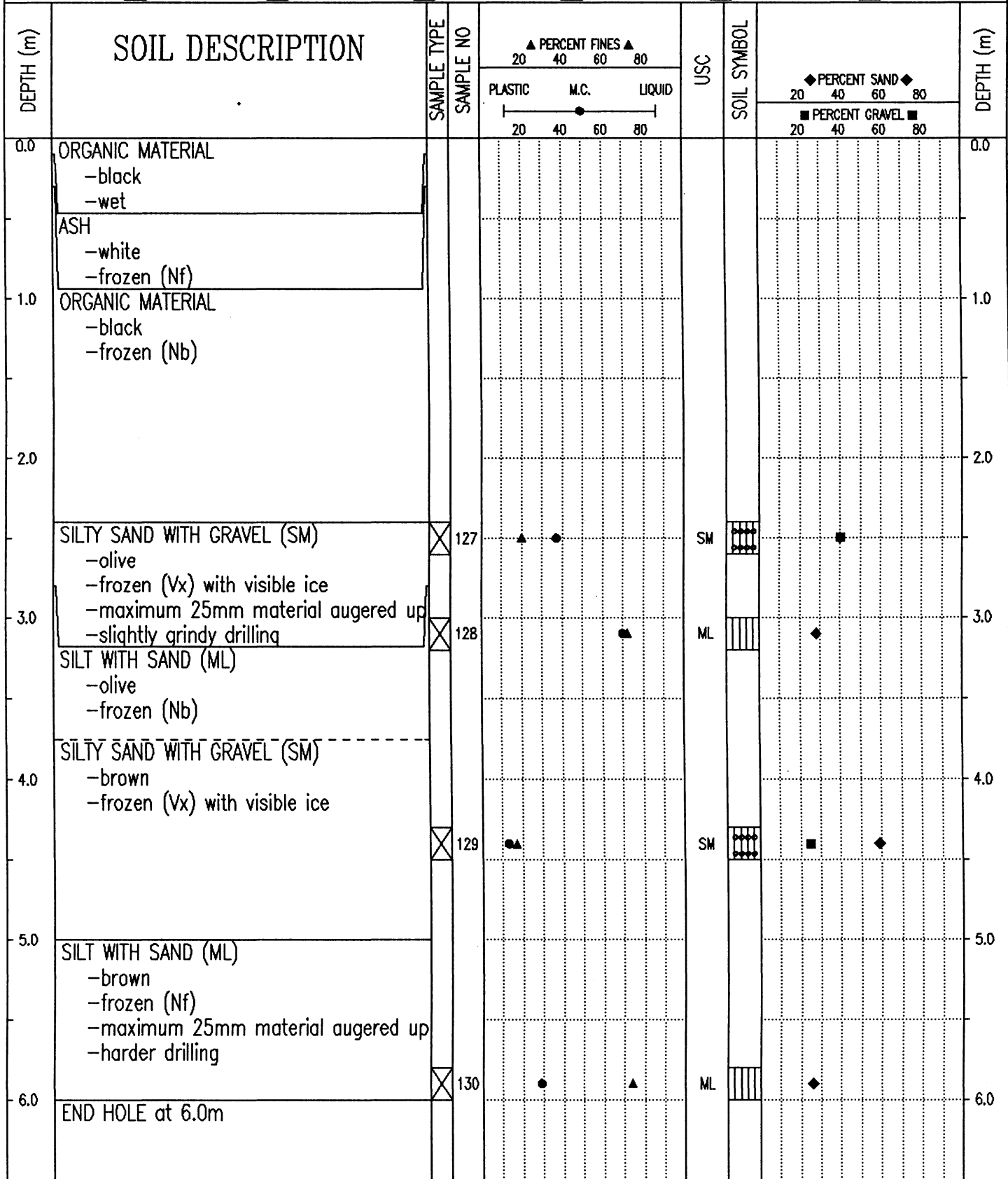
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REVIEWED BY:
Fig. No:

COMPLETION DEPTH: 7.5 m
COMPLETE: 95/05/15

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 353-43
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1824+175 o/s 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		

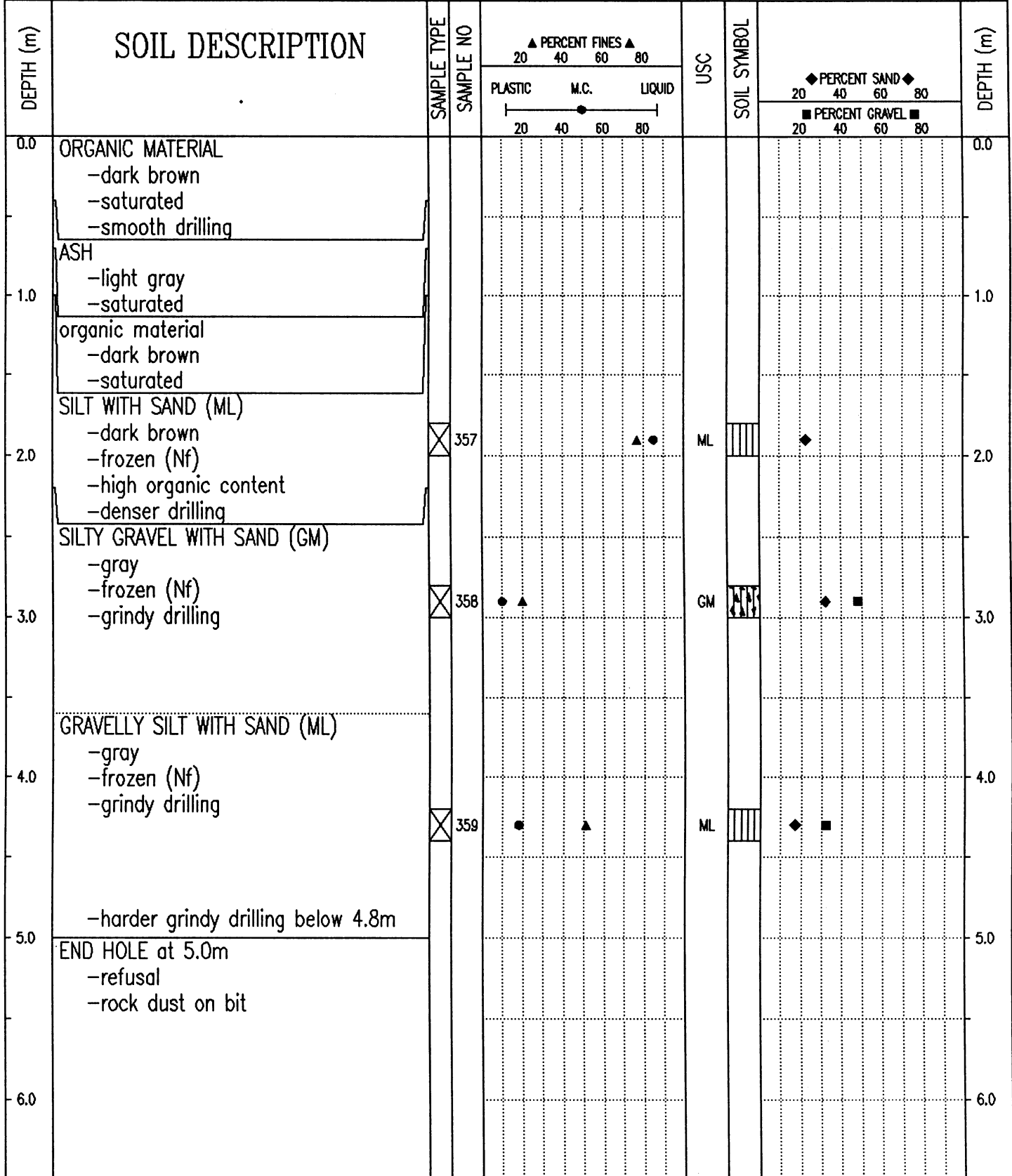


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LOGGED BY: KJ	COMPLETION DEPTH: 6.0 m
REVIEWED BY:	COMPLETE: 95/05/15
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 362-147
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm Dia. SOLID STEM AUGER	LOCATION: Sta. 1824+220 o/s 12m Rt.	ELEVATION: 0.00 (m)

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

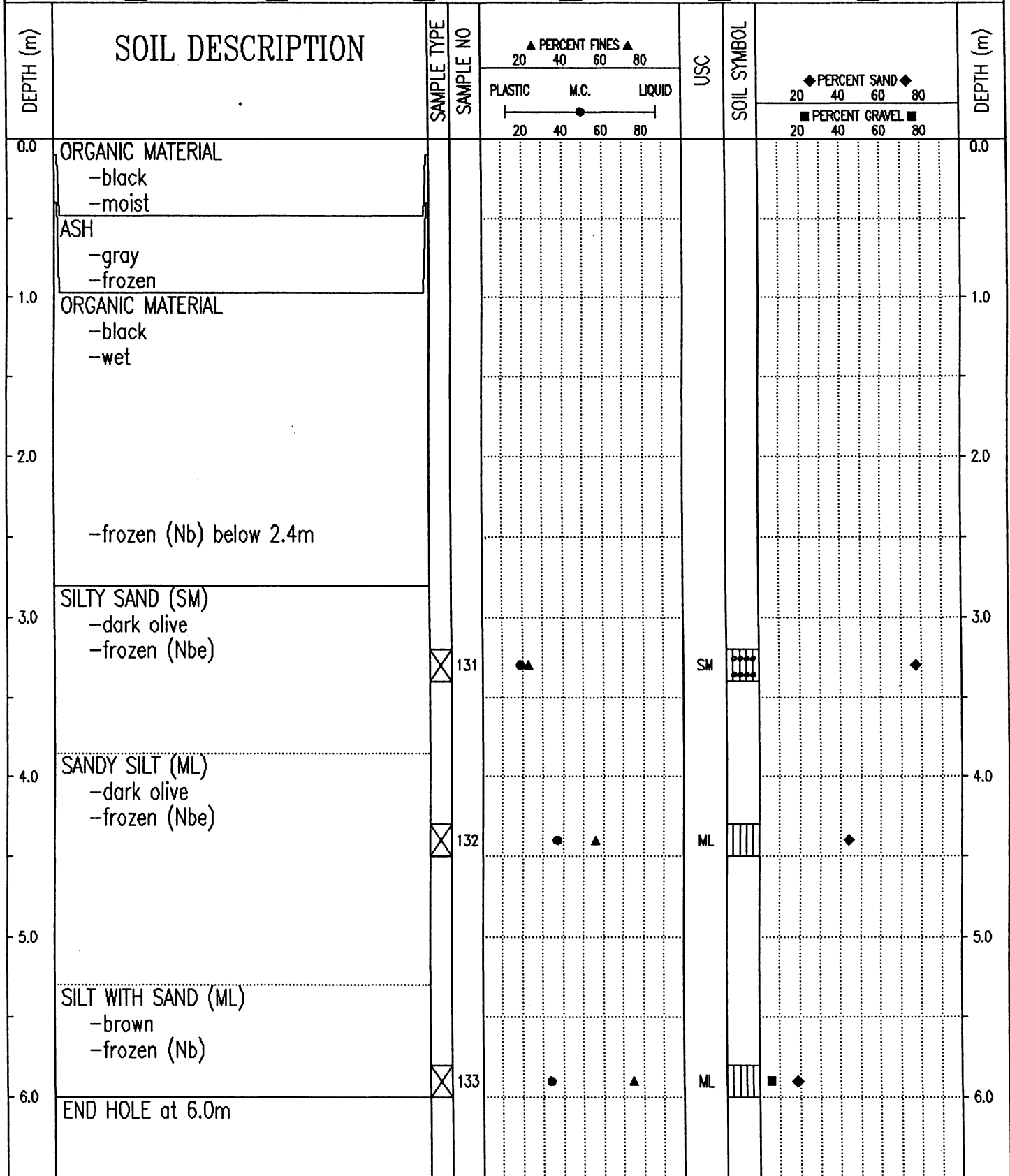


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LOGGED BY: CC
REVIEWED BY:
Fig. No:

COMPLETION DEPTH: 5.0 m
COMPLETE: 95/05/30

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 353-44
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1824+300 o/s 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		

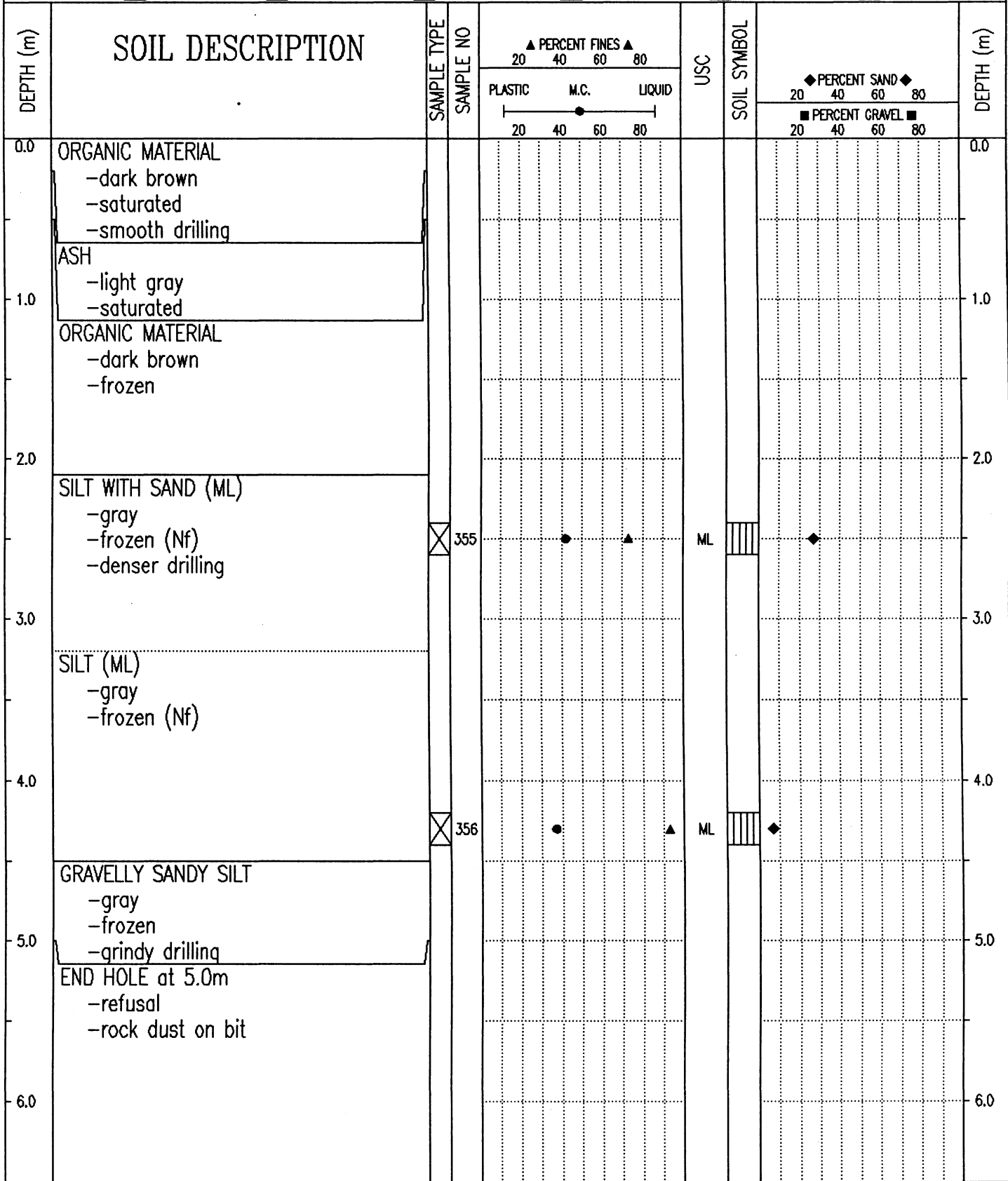


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LOGGED BY: KJ
REVIEWED BY:
Fig. No:

COMPLETION DEPTH: 6.0 m
COMPLETE: 95/05/15
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SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT	TEST HOLE NO: 362-146
ENGINEERING-CAPITAL		SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm Dia. SOLID STEM AUGER		LOCATION: Sta. 1824+473 o/s 10m 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

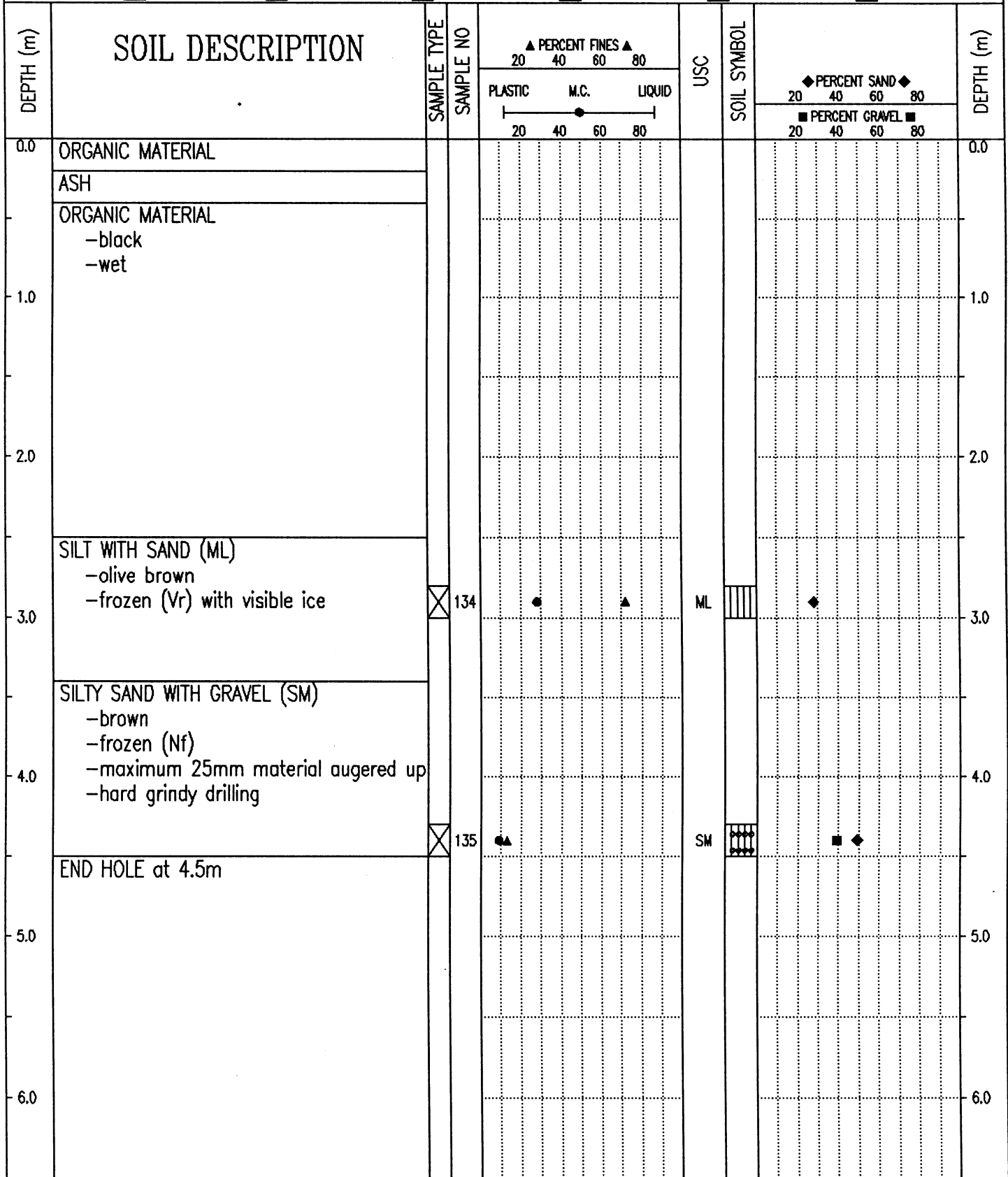


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REVIEWED BY:
Fig. No:

COMPLETION DEPTH: 5.0 m
COMPLETE: 95/05/30
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 353-45
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1824+525 o/s 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		



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Fig. No:

COMPLETION DEPTH: 4.5 m
COMPLETE: 95/05/15

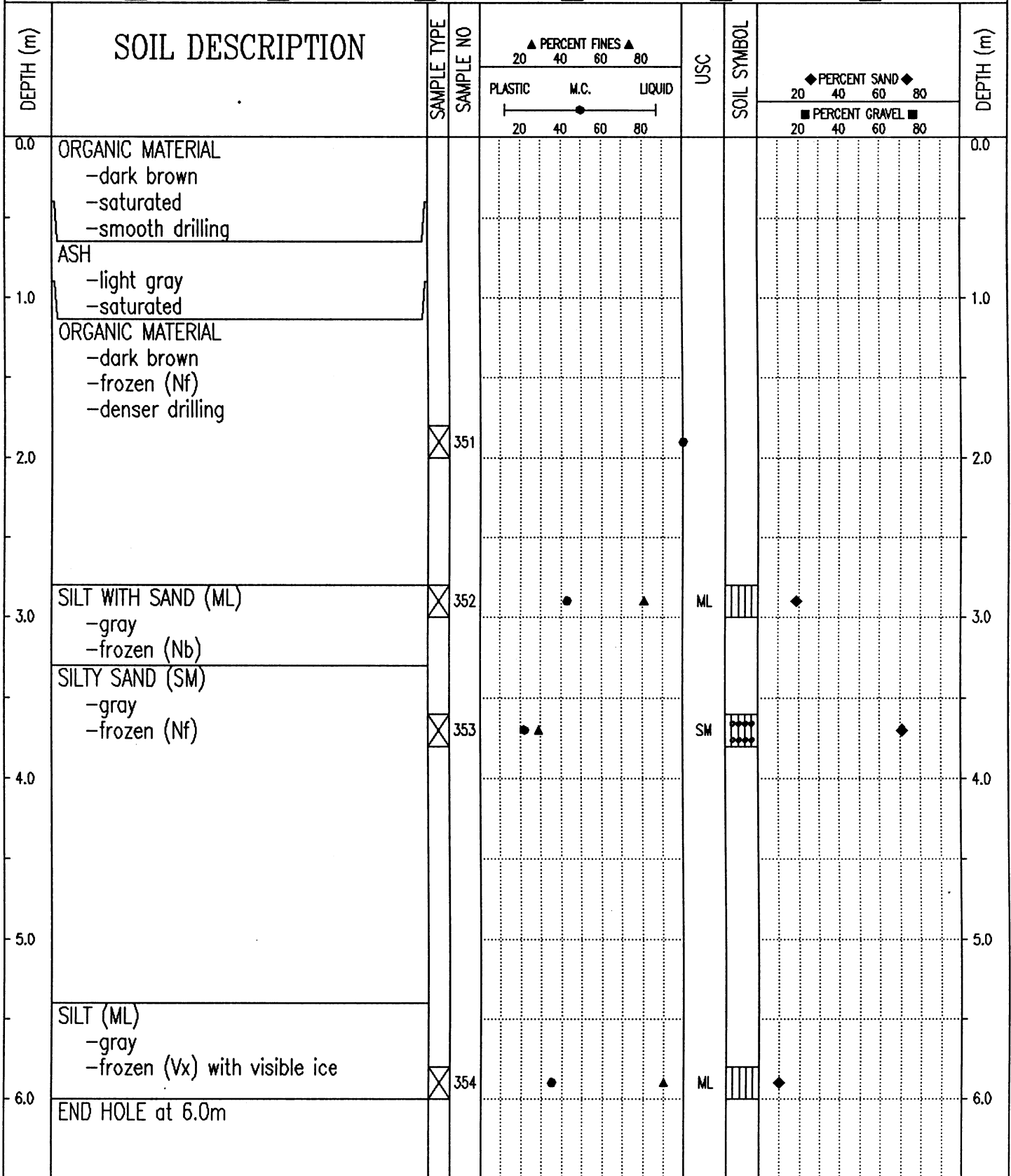
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	80	
0.0	ORGANIC MATERIAL -black -moist											0.0	
	ASH -gray -frozen (Nf)												
1.0	ORGANIC MATERIAL -black -frozen (Nb)											1.0	
	ICE												
3.0	SILTY SAND (SM) -dark brown -frozen (Nf)	<input checked="" type="checkbox"/>	136	●▲			SM	◆				3.0	
4.0		<input checked="" type="checkbox"/>	137	●▲			SM	◆				4.0	
5.0	-hard grindy drilling below 4.8m												
5.5		<input checked="" type="checkbox"/>	138	●▲			SM	◆	■			5.5	
6.0	END HOLE at 5.5m -refusal -rock dust on bit											6.0	

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LOGGED BY: KJ	COMPLETION DEPTH: 5.5 m
REVIEWED BY:	COMPLETE: 95/05/15
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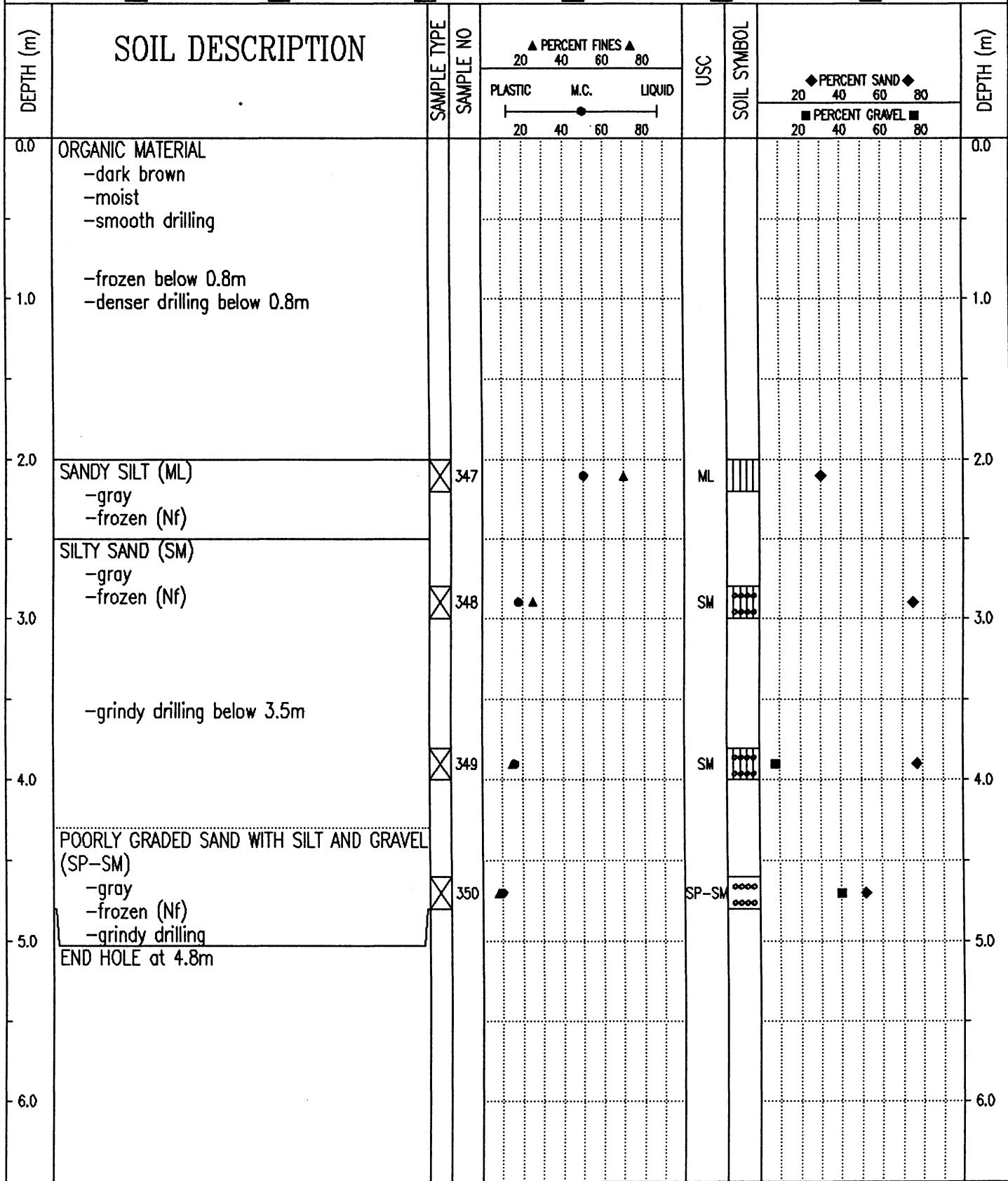
SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 362-145
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm Dia. SOLID STEM AUGER	LOCATION: Sta. 1824+614 o/s 11m Rt.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> 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: CC	COMPLETION DEPTH: 6.0 m
REVIEWED BY:	COMPLETE: 95/05/30
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 362-144
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm Dia. SOLID STEM AUGER	LOCATION: Sta. 1824+725 o/s 10m 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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Fig. No:
COMPLETION DEPTH: 4.8 m
COMPLETE: 95/05/29
Page 1 of 1

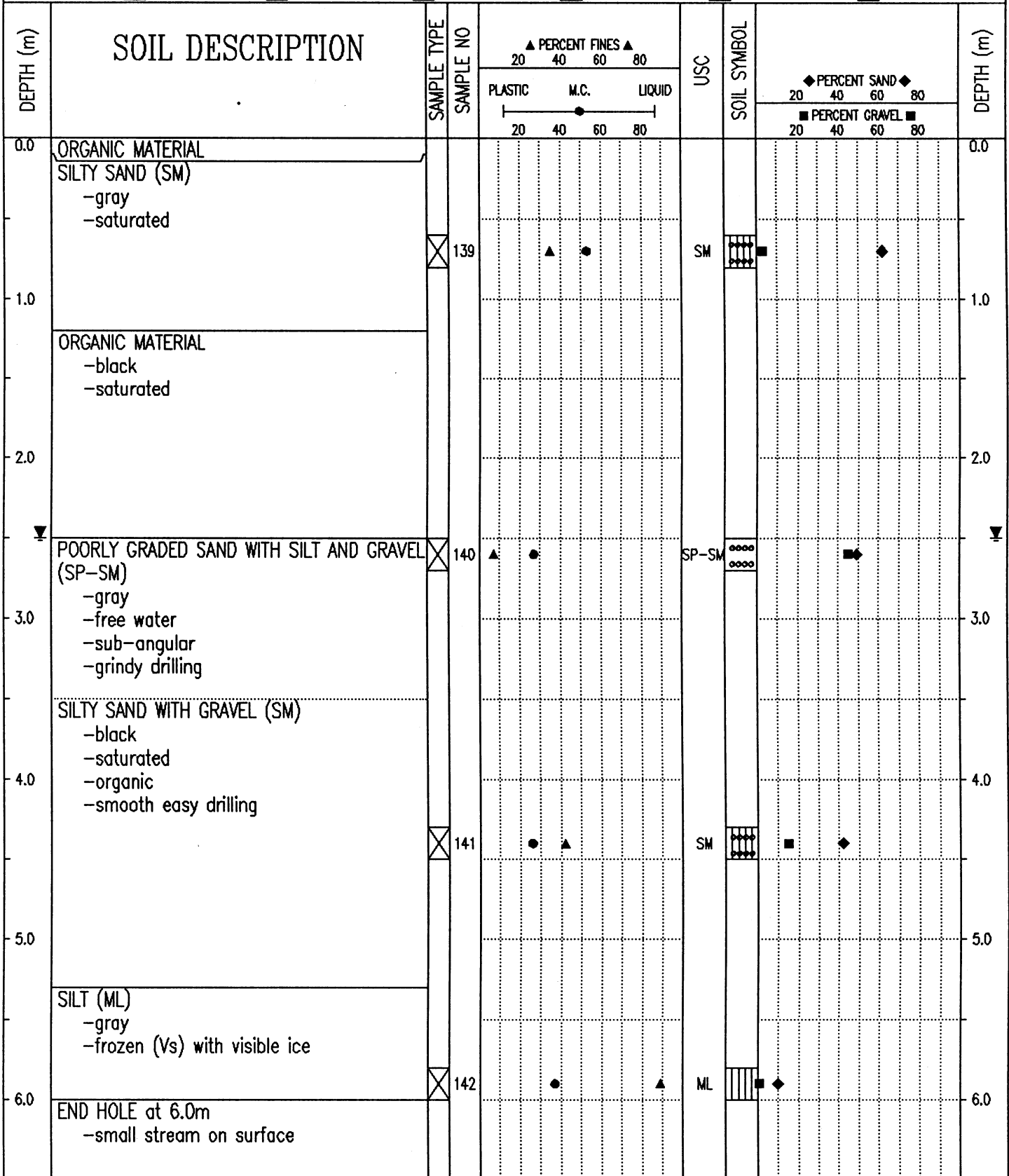
SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT		TEST HOLE NO: 362-143								
ENGINEERING-CAPITAL		SEGMENT 14		Project No: 092-202101-0314								
DRILL: B40L 150mm Dia. SOLID STEM AUGER		LOCATION: Sta. 1824+856 o/s 10m Rt.		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		<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 MATERIAL -dark brown -moist -smooth drilling										0.0	
1.0	POORLY GRADED GRAVEL WITH SAND (GP) -brown -frozen (Nf) -grindy drilling	<input checked="" type="checkbox"/>	345				GP				1.0	
2.0	SILTY SAND (SM) -frozen (Nf) -first refusal at 1.6m	<input checked="" type="checkbox"/>	346				SM				2.0	
3.0	END HOLE at 2.5m -refusal -rock dust on bit										3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	

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Fig. No:

COMPLETION DEPTH: 2.5 m
COMPLETE: 95/05/29

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 353-47
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1824+860 o/s 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		

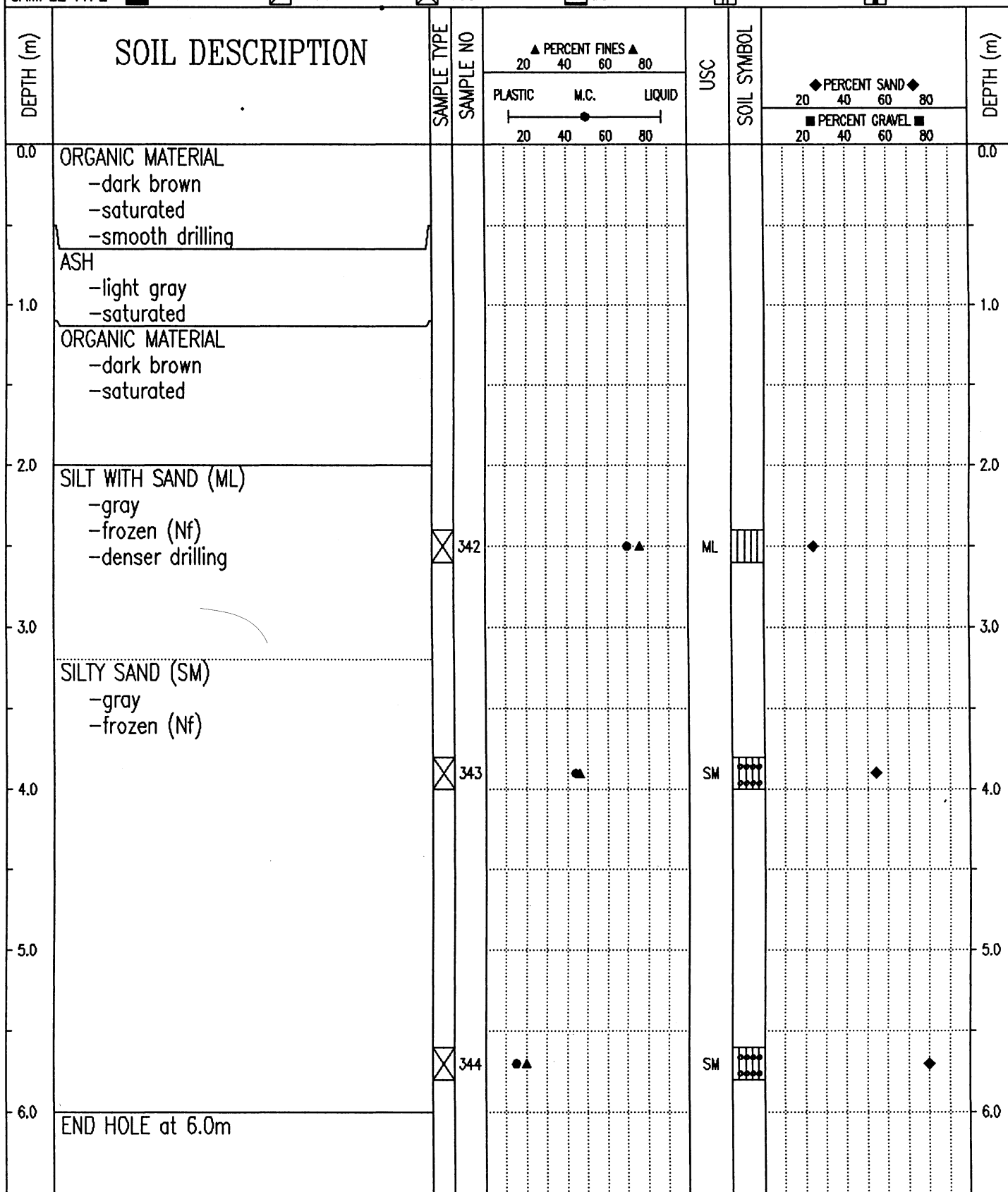


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Fig. No:

COMPLETION DEPTH: 6.0 m
COMPLETE: 95/05/15

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 362-142
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm Dia. SOLID STEM AUGER	LOCATION: Sta. 1824+975 o/s 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	



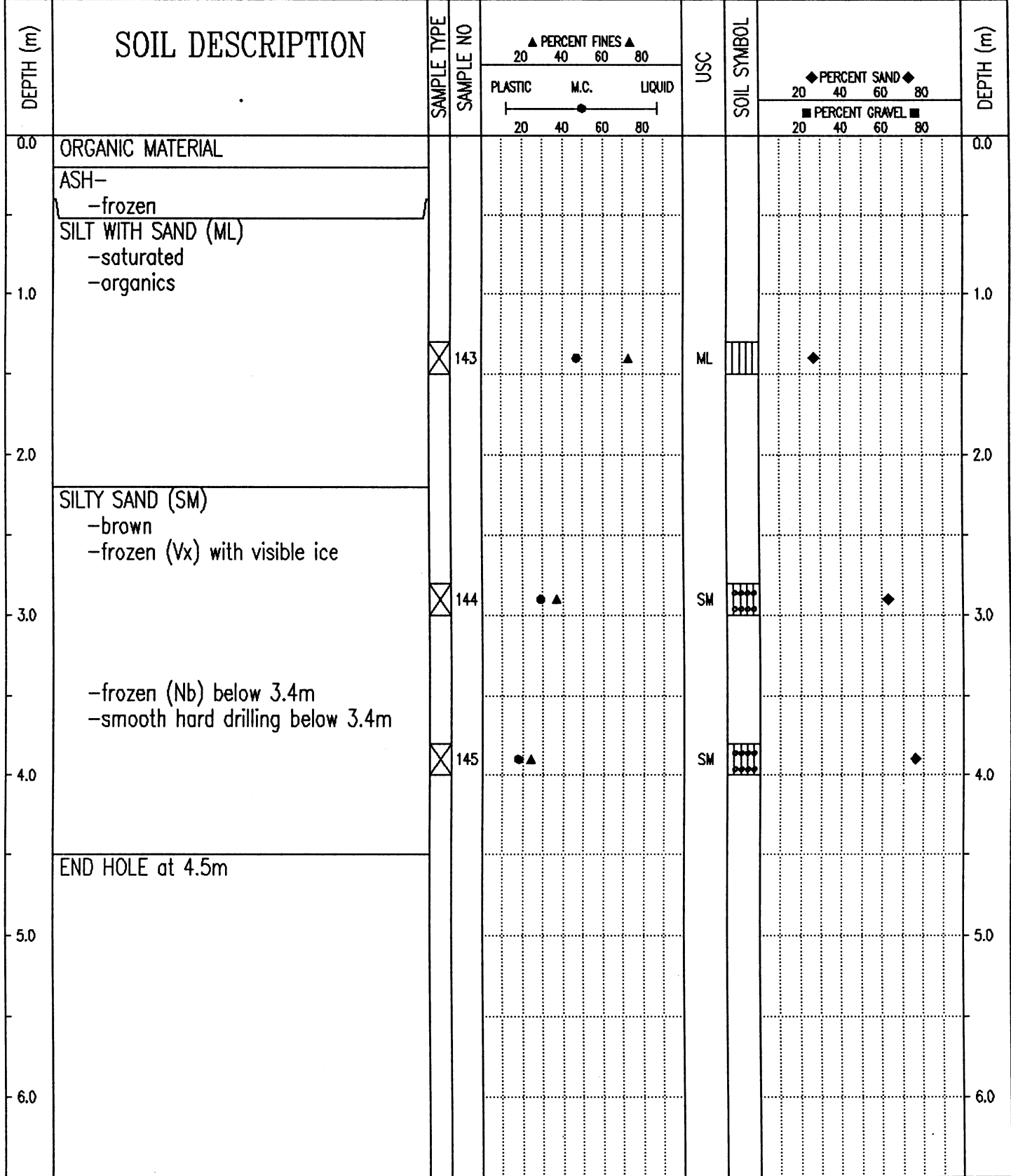
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REVIEWED BY:
Fig. No:

COMPLETION DEPTH: 6.0 m
COMPLETE: 95/05/29

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 353-48
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1825+050 o/s 11m Lt.	ELEVATION: 0.00 (m)

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



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Fig. No:

COMPLETION DEPTH: 4.5 m
COMPLETE: 95/05/15

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 358-141
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1825+200 o/s 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 ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC MATERIAL -dark brown -saturated										0.0	
0.5	ASH -light gray -saturated -smooth drilling										1.0	
1.5	ORGANIC MATERIAL -dark brown -saturated										2.0	
2.0	-frozen below 2.0m -denser drilling below 2.0m										2.5	
2.5	SANDY SILT (ML) -frozen (Nf) -organic										3.0	
3.0											3.5	
3.5											4.0	
4.0											4.5	
4.5											5.0	
5.0	SILTY SAND (SM) -gray -frozen (Nf)										5.5	
5.5											6.0	
6.0	END HOLE at 6.0m										6.0	

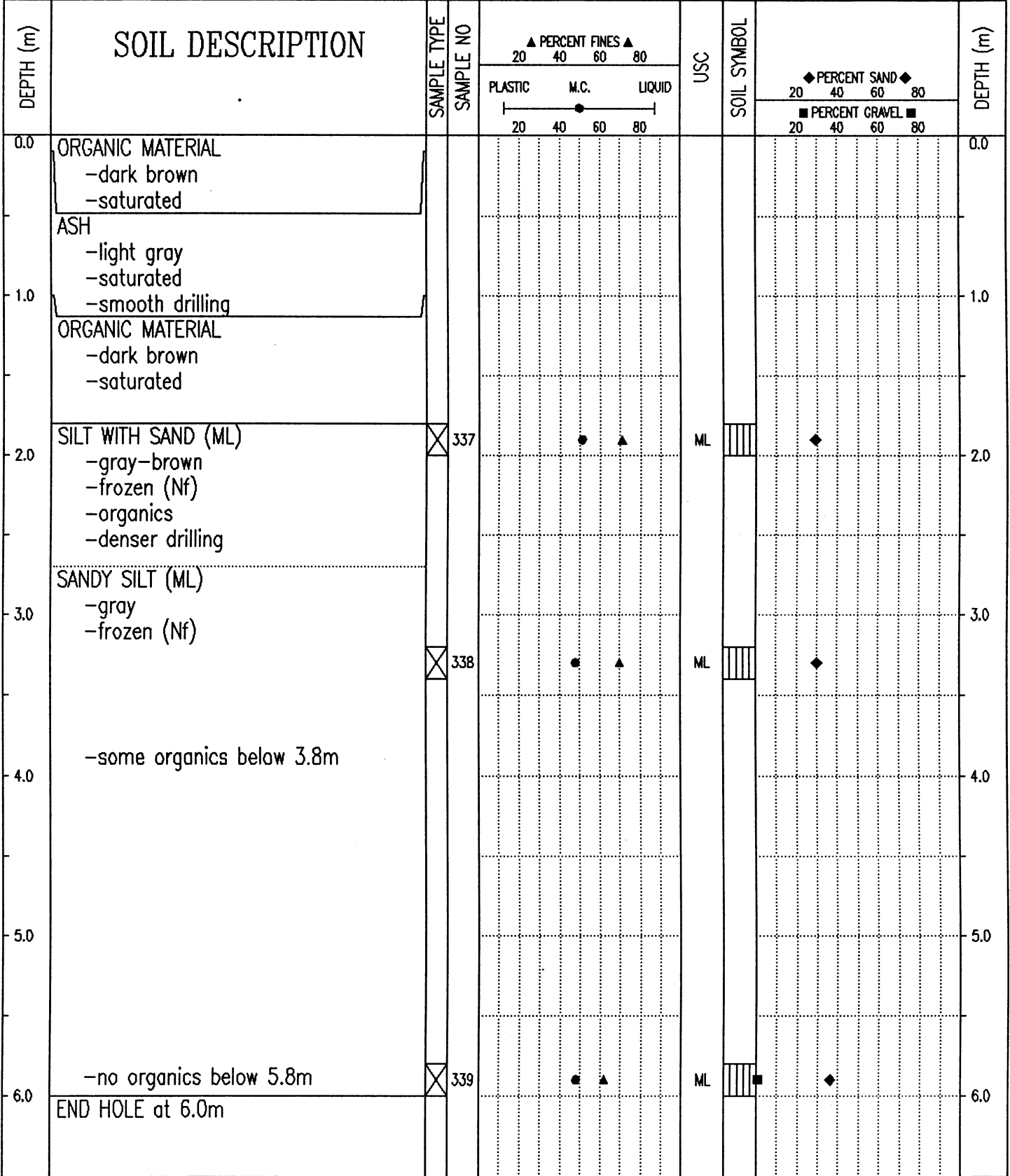
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REVIEWED BY:
Fig. No:

COMPLETION DEPTH: 6.0 m
COMPLETE: 95/05/29

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 358-140
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1825+350 o/s 2m Lt.	ELEVATION: 0.00 (m)

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



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Fig. No:

COMPLETION DEPTH: 6.0 m
COMPLETE: 95/05/29

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 353-49
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1825+450 o/s 2m 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 ◆		PERCENT GRAVEL ■		DEPTH (m)
				20	40	60			80	20	40	60	
0.0	ASH											0.0	
0.0 - 1.0	ORGANIC MATERIAL -black -wet -frozen (Vs) with visible ice below 0.75m												
1.0 - 3.0													
3.0 - 6.0	SANDY SILT (ML) -dark gray -frozen (Vx) with visible ice -organics												
3.0		<input checked="" type="checkbox"/>	146				▲	●			◆	3.0	
6.0		<input checked="" type="checkbox"/>	147				▲	●			◆	6.0	
6.0	END HOLE at 6.0m											6.0	

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Fig. No:

COMPLETION DEPTH: 6.0 m
COMPLETE: 95/05/15

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 353-50
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1825+550 o/s 3m Lt.	ELEVATION: 0.00 (m)

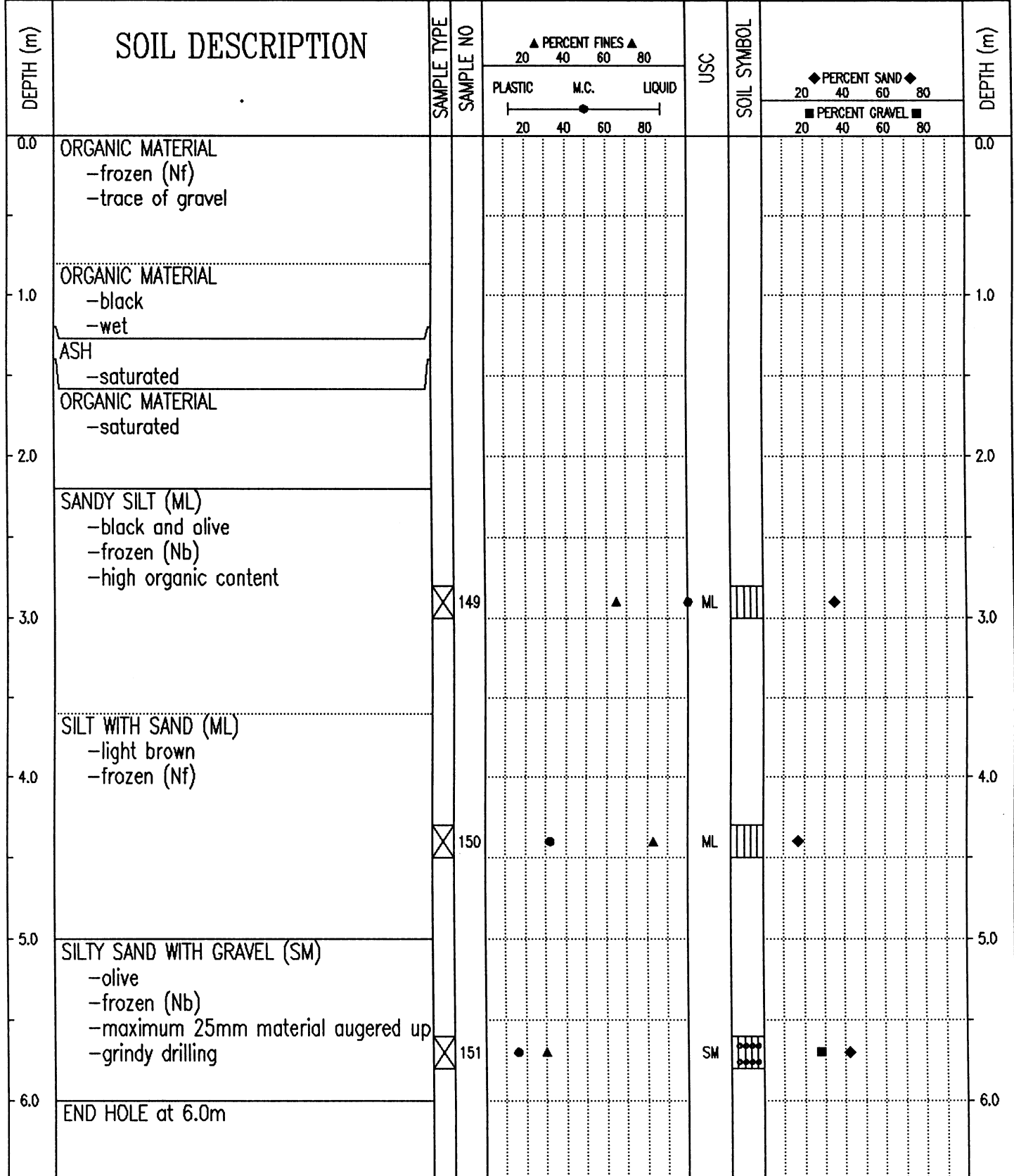
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				20	40	60			80	20		
0.0	ORGANIC ASH -dark gray -frozen (Vx) with visible ice											0.0
1.0												1.0
2.0	ASH -light gray -frozen (Nb)											2.0
3.0	ORGANIC MATERIAL -black -frozen (Vx) with visible ice -frozen (Vr) with visible ice below 3.0m											3.0
4.0	SILT WITH SAND (ML) -olive -frozen (Nb) -easier drilling											4.0
4.5	END HOLE at 4.5m	<input checked="" type="checkbox"/>	148				▲ ●	ML		◆		4.5
5.0												5.0
6.0												6.0

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	REVIEWED BY:	COMPLETE: 95/05/15
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 353-51
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1825+675 o/s 10m Rt.	ELEVATION: 0.00 (m)

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



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REVIEWED BY:	COMPLETE: 95/05/16
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 353-52
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1825+675 o/s 13m 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		

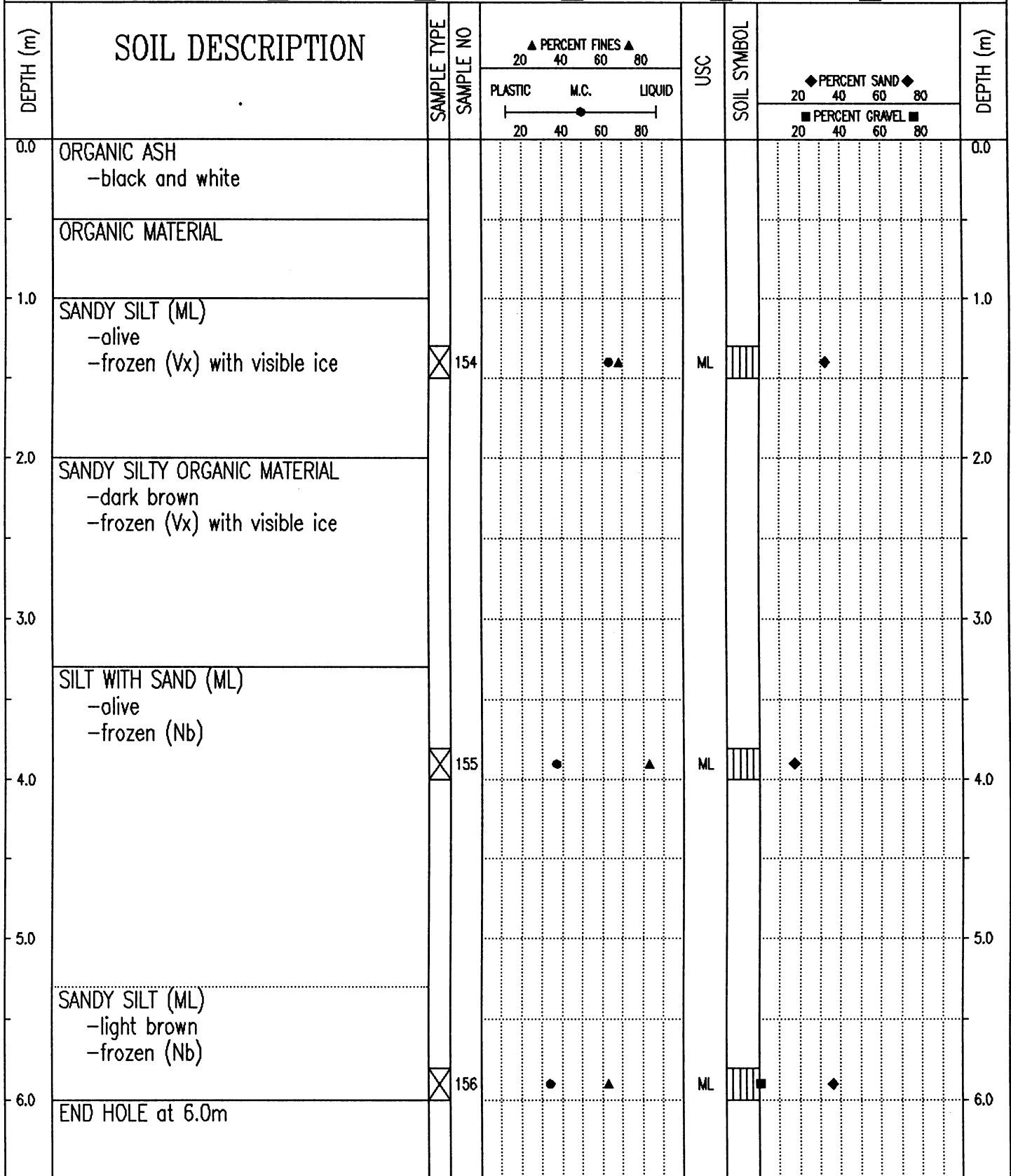
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC MATERIAL -black -frozen (Nf) below 0.2m										0.0
2.0	ASH -white -frozen (Vx) with visible ice										2.0
3.0	ORGANIC MATERIAL -black -frozen (Vs) with visible ice										3.0
4.0	SANDY SILT (ML) -olive -frozen (Nf)										4.0
4.5		<input checked="" type="checkbox"/>	152				ML				4.5
6.0	END HOLE at 6.0m	<input checked="" type="checkbox"/>	153				ML				6.0

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Fig. No:

COMPLETION DEPTH: 6.0 m
COMPLETE: 95/05/16

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 353-53
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1825+780	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
<input type="checkbox"/> RETURN	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE
<input type="checkbox"/> CORE		



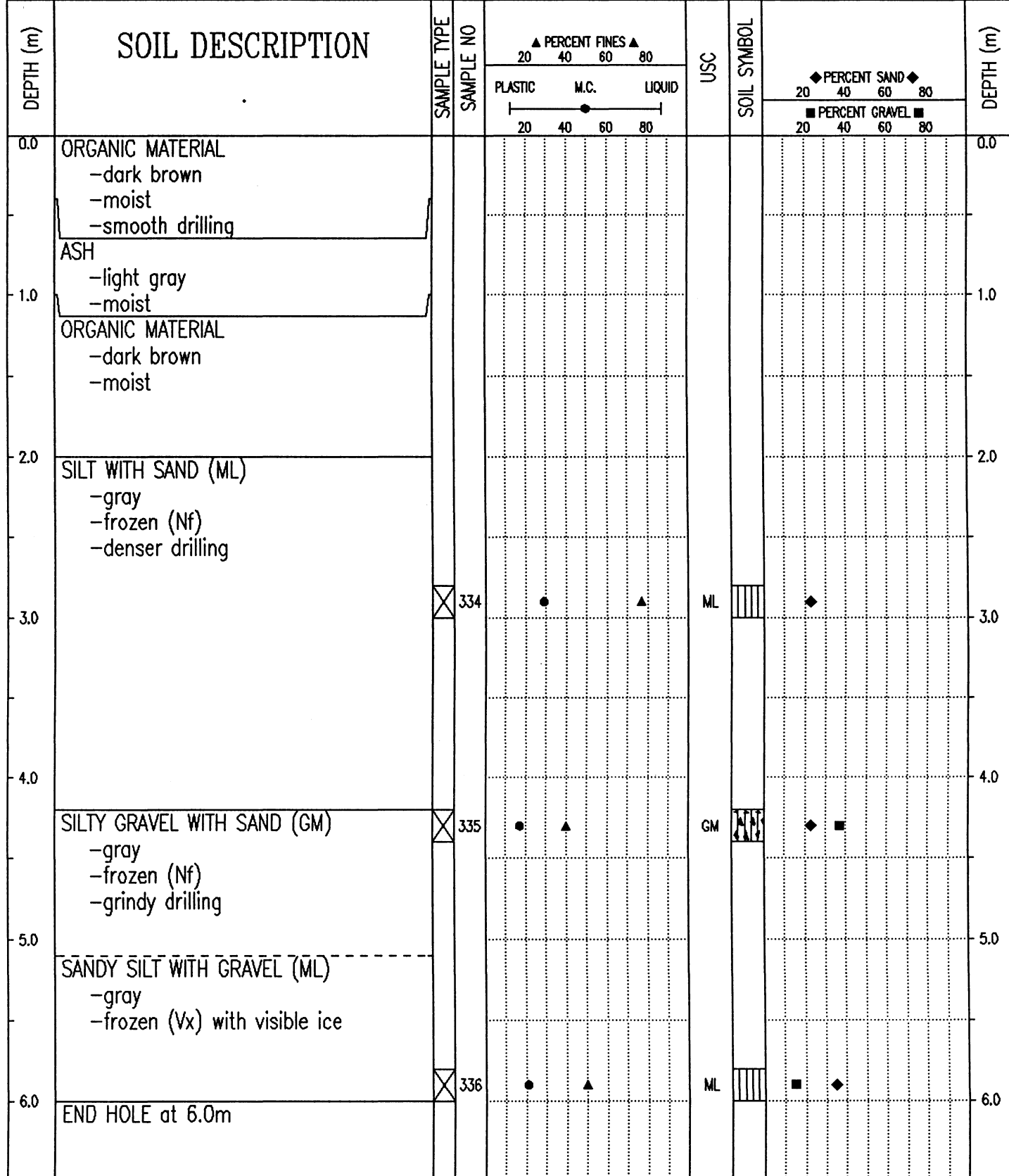
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Fig. No:

COMPLETION DEPTH: 6.0 m
COMPLETE: 95/05/16

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 358-139
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1825+825 o/s 15m Rt.	ELEVATION: 0.00 (m)

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



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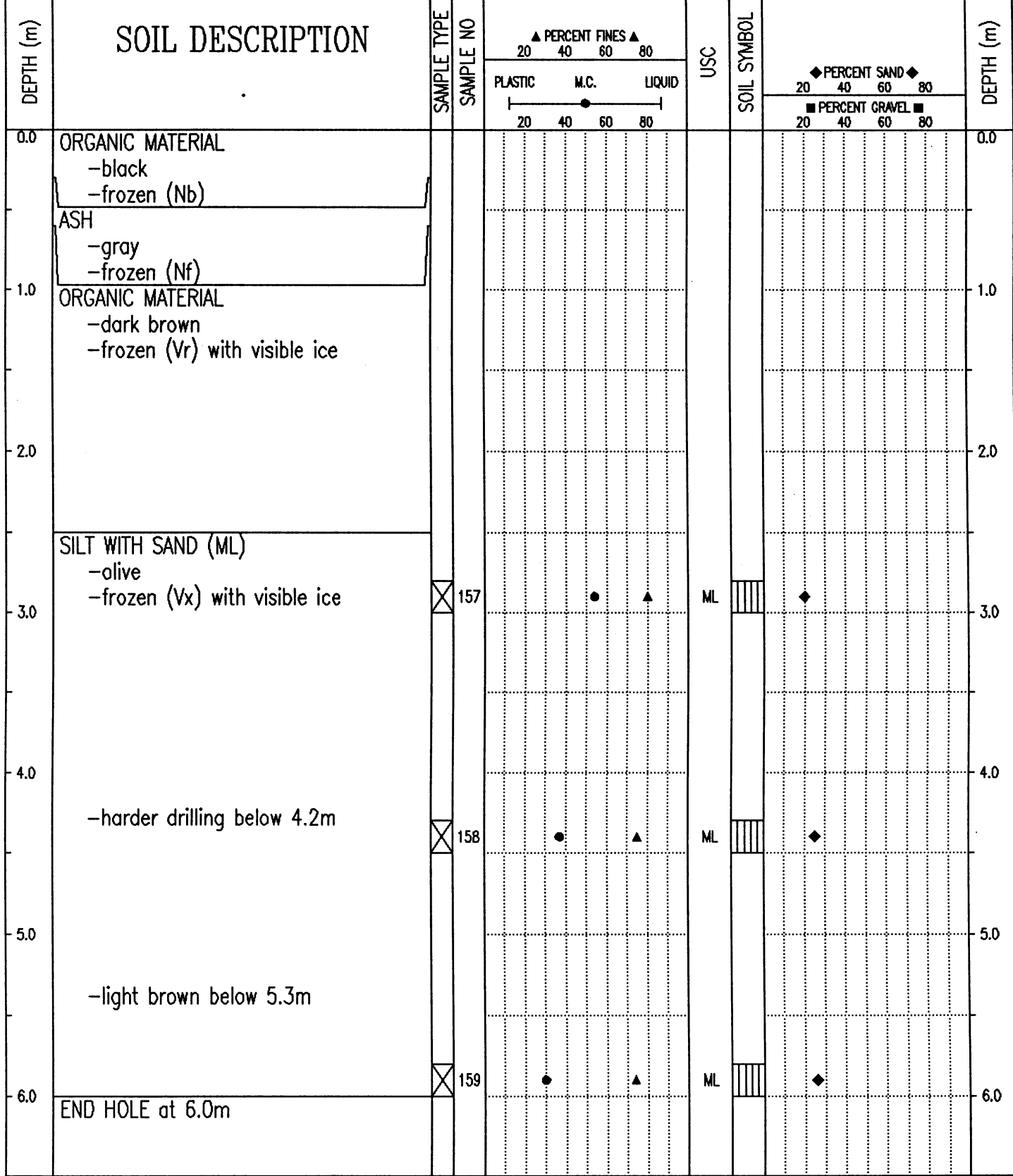
REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 6.0 m

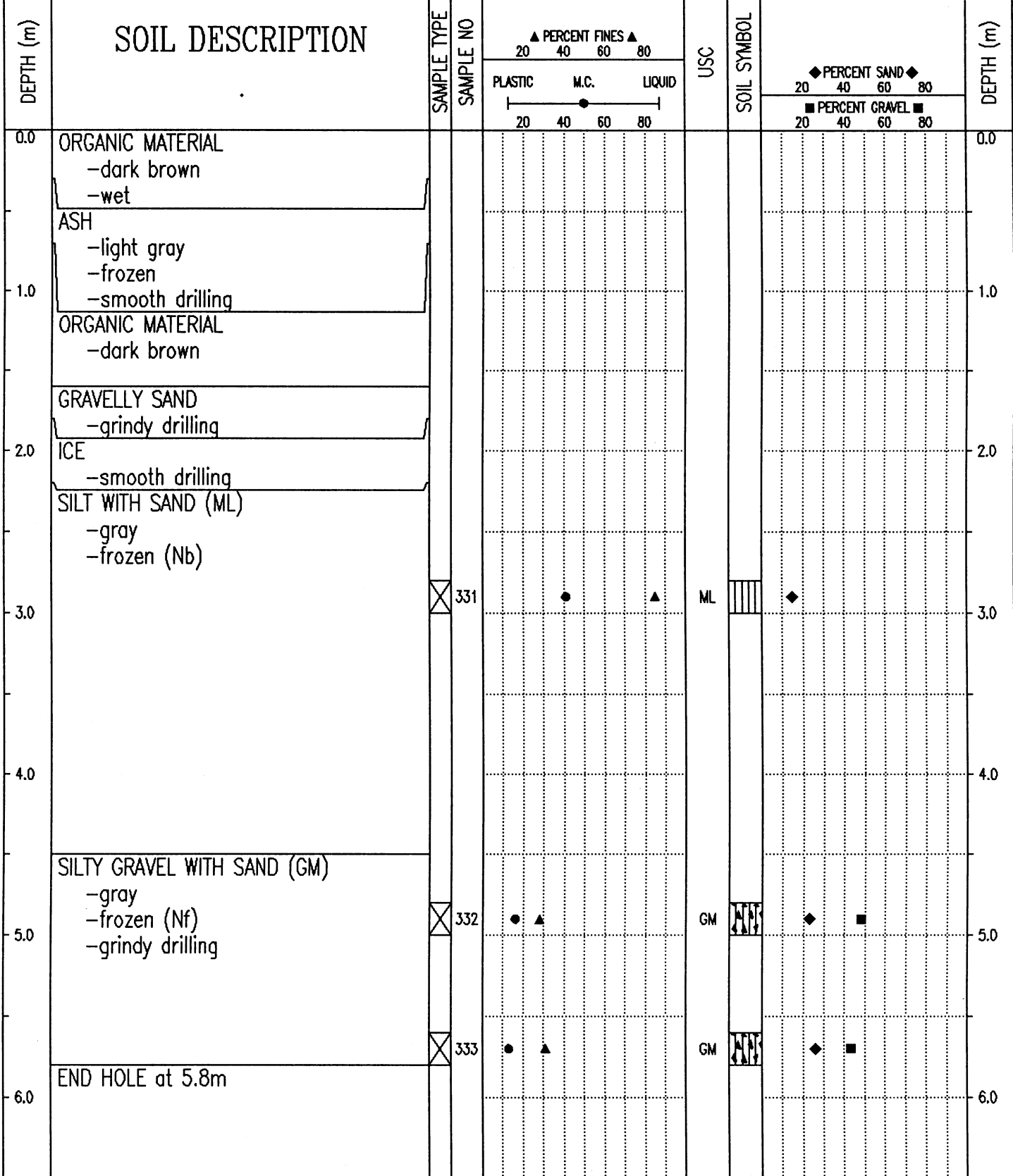
COMPLETE: 95/05/29

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



95/11/16 12:46PM

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



95/11/16 11:51AM

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			20	40	60		80
0.0	ORGANIC MATERIAL -black -moist												0.0
0.5	ASH -gray -damp												1.0
1.0	ORGANIC MATERIAL -black -moist -trace of silt -frozen (Vx) with visible ice below 1.7m												2.0
2.5	SILT (ML) -olive -frozen (Nb) -trace of organics	<input checked="" type="checkbox"/>	160		60	75	ML		60				3.0
3.5	SILT WITH SAND (ML) -olive -frozen (Nb) -trace of organics	<input checked="" type="checkbox"/>	161		60	75	ML		60				4.0
4.5	END HOLE at 4.5m												5.0
5.0													6.0

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REVIEWED BY:	COMPLETE: 95/05/16
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 358-137
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1826+075 o/s 25m Rt.	ELEVATION: 0.00 (m)

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

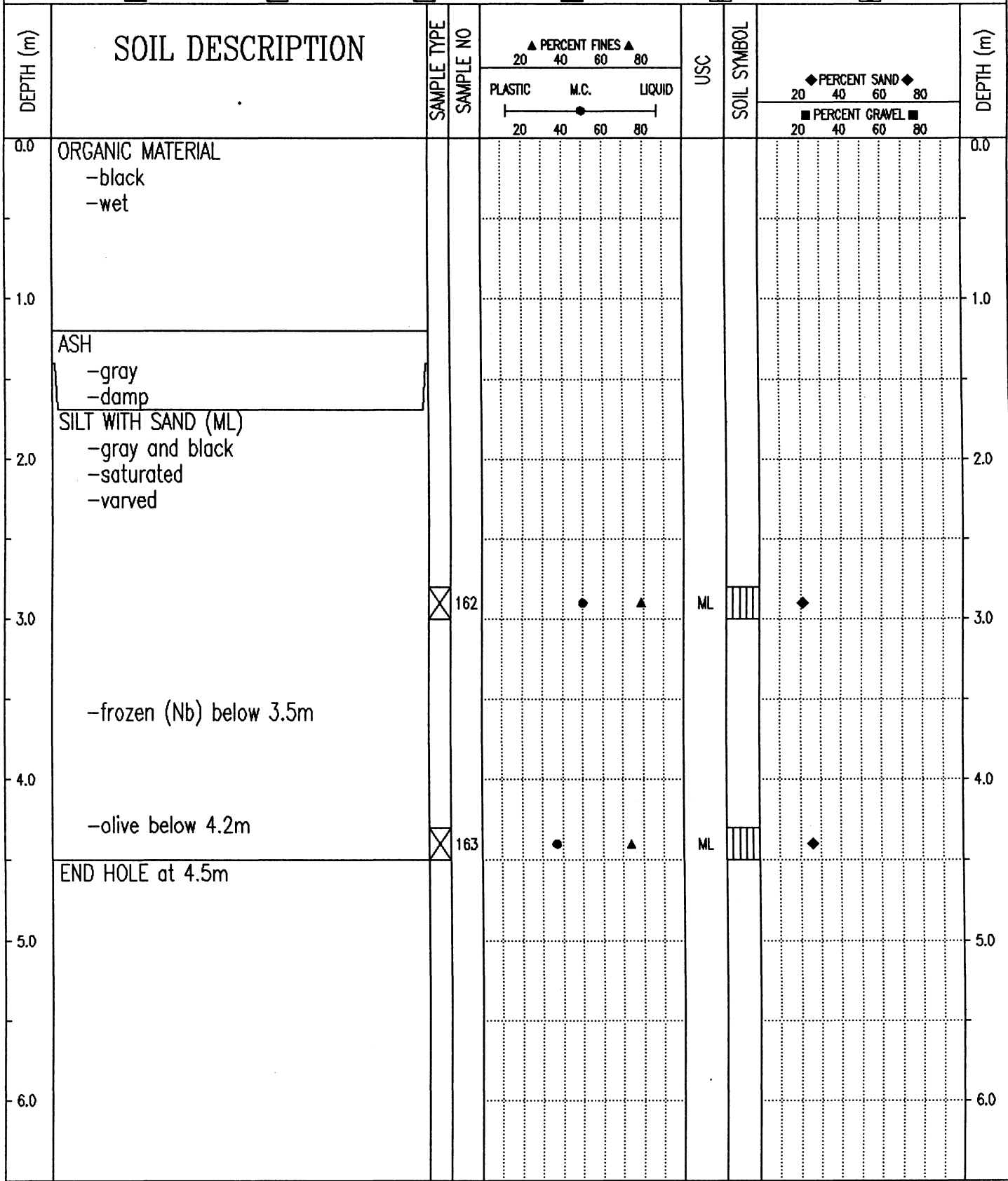
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC MATERIAL -dark brown -frozen											0.0
0.5	ASH -light gray -frozen -smooth drilling											1.0
1.5	ORGANIC MATERIAL -dark brown -frozen											2.0
2.0	SANDY GRAVELLY SILT -gray -frozen -grindy drilling											2.0
3.0	SILT WITH SAND (ML) -gray-brown -frozen (Nf) -organics -smooth drilling	<input checked="" type="checkbox"/>	328				ML					3.0
4.0	-gray below 3.6m -frozen (Vx) with visible ice below 3.6m -no organics below 3.6m											4.0
5.0		<input checked="" type="checkbox"/>	329				ML					5.0
6.0	SILTY GRAVEL WITH SAND (GM) -gray -frozen (Nf) -grindy drilling	<input checked="" type="checkbox"/>	330				GM					6.0
6.0	END HOLE at 6.0m -refusal											6.0

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Fig. No:

COMPLETION DEPTH: 6.0 m
COMPLETE: 95/05/29

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 355-56
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1826+175 o/s 18m 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: KJ	COMPLETION DEPTH: 4.5 m
REVIEWED BY:	COMPLETE: 95/05/16
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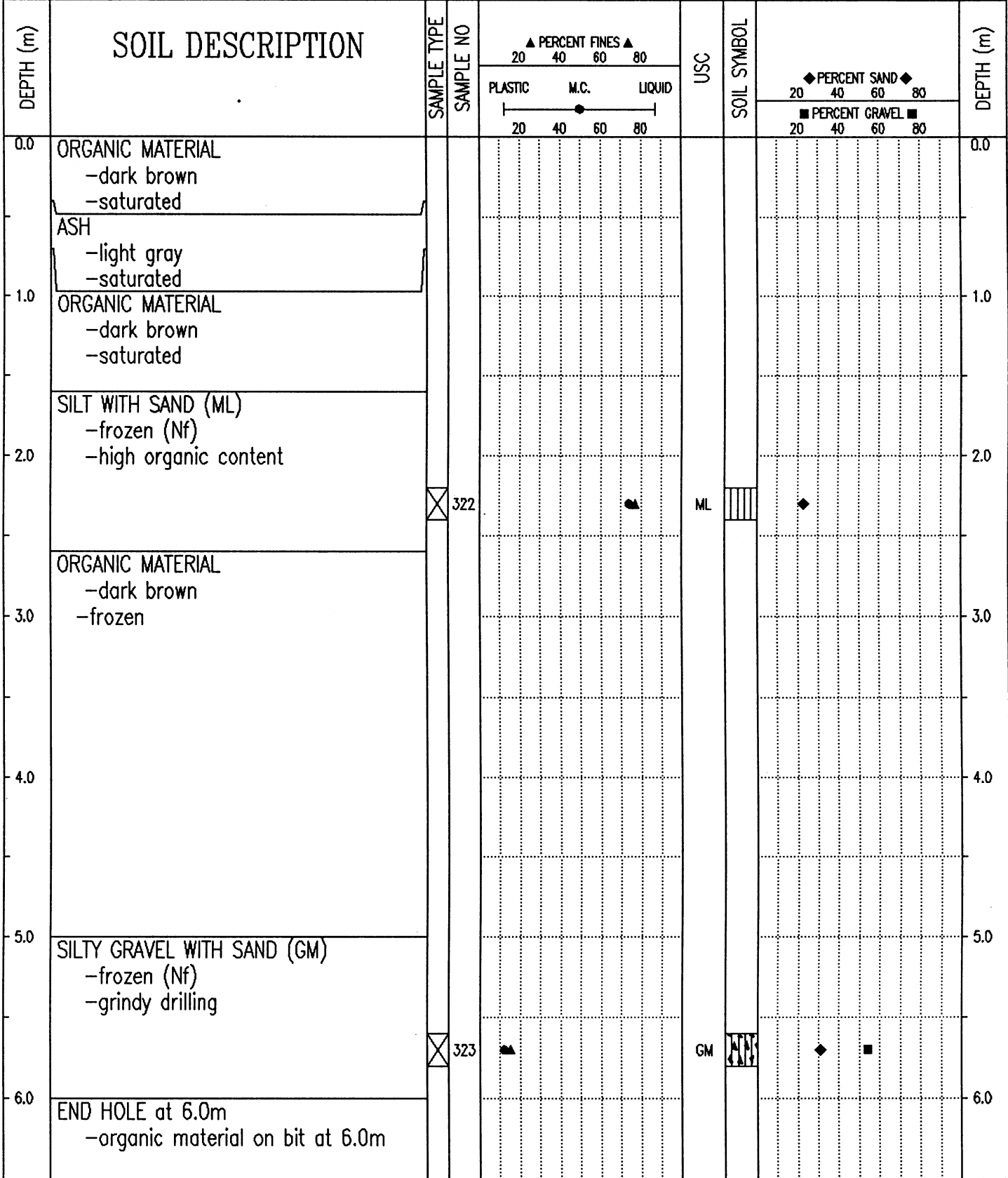
SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT		TEST HOLE NO: 358-136			
ENGINEERING-CAPITAL		SEGMENT 14		Project No: 092-202101-0314			
DRILL: 150mm SOLID STEM AUGER		LOCATION: Sta. 1826+176 o/s 4m Rt.		ELEVATION: 0.00 (m)			
SAMPLE TYPE		RETURN		S.P.T.			
AUGER		BULK		TUBE			
CORE							
DEPTH (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 MATERIAL -dark brown -wet -smooth drilling						0.0
1.0	ASH -light gray -wet						1.0
1.5	ORGANIC MATERIAL -dark brown -wet	⊗	324	● ▲	ML	◆	1.5
2.0	SILT WITH SAND (ML) -wet -frozen (Nf) below 1.2m						2.0
3.0	ORGANIC MATERIAL -gray-brown -frozen (Nf) -some silt and sand -denser drilling	⊗	325	●			3.0
4.0	SILT WITH SAND (ML) -gray -frozen (Nf)	⊗	326	● ▲	ML	◆	4.0
5.0	SILTY SAND WITH GRAVEL (SM) -gray -frozen (Nf) -grindy drilling						5.0
6.0	END HOLE at 6.0m	⊗	327	● ▲	SM	■ ◆	6.0

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COMPLETION DEPTH: 6.0 m
COMPLETE: 95/05/29

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



95/11/16 11:45AM

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

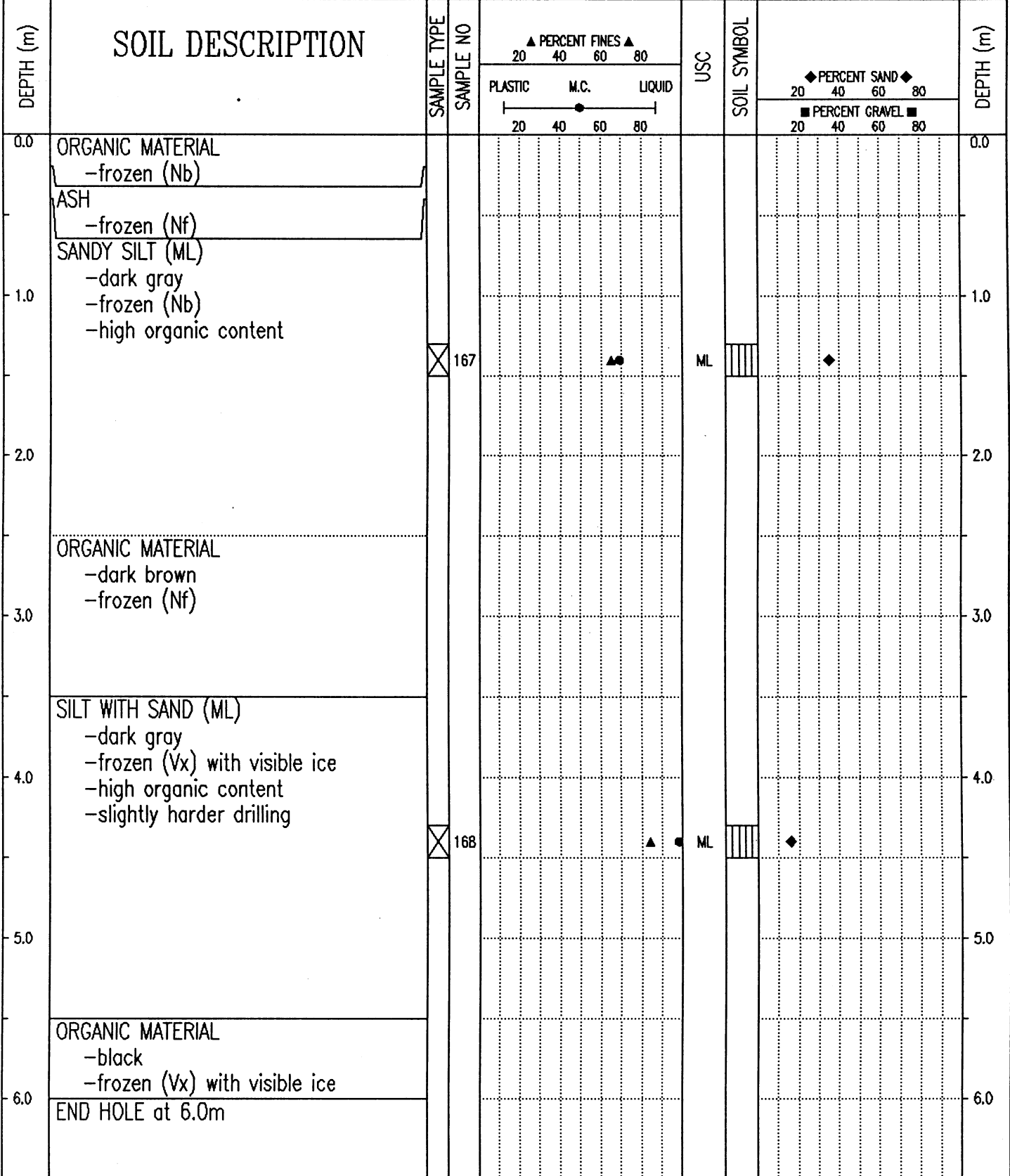
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC MATERIAL -black -frozen (Nb)											0.0
0.5	ASH -brown -frozen (Nf)											1.0
1.0	SANDY SILT (ML) -black -saturated -very high organic content											2.0
2.0	-frozen (Vr) with visible ice below 1.8m											3.0
3.0	-frozen (Vx) with visible ice below 2.8m	<input checked="" type="checkbox"/>	164				ML					3.0
4.5	ICE											4.0
4.8	SILTY GRAVEL WITH SAND (GM) -dark brown -frozen (Vx) with visible ice	<input checked="" type="checkbox"/>	165				GM					5.0
5.0	-slightly grindy drilling SILTY SAND WITH GRAVEL (SM) -dark brown -frozen (Vx) with visible ice	<input checked="" type="checkbox"/>	166				SM					5.0
5.0	END HOLE at 5.0m -water on surface											6.0

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LOGGED BY: KJ	COMPLETION DEPTH: 5.0 m
REVIEWED BY:	COMPLETE: 95/05/16
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 355-58
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1826+375 o/s 10m Lt.	ELEVATION: 0.00 (m)

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



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REVIEWED BY:	COMPLETE: 95/05/16
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SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE

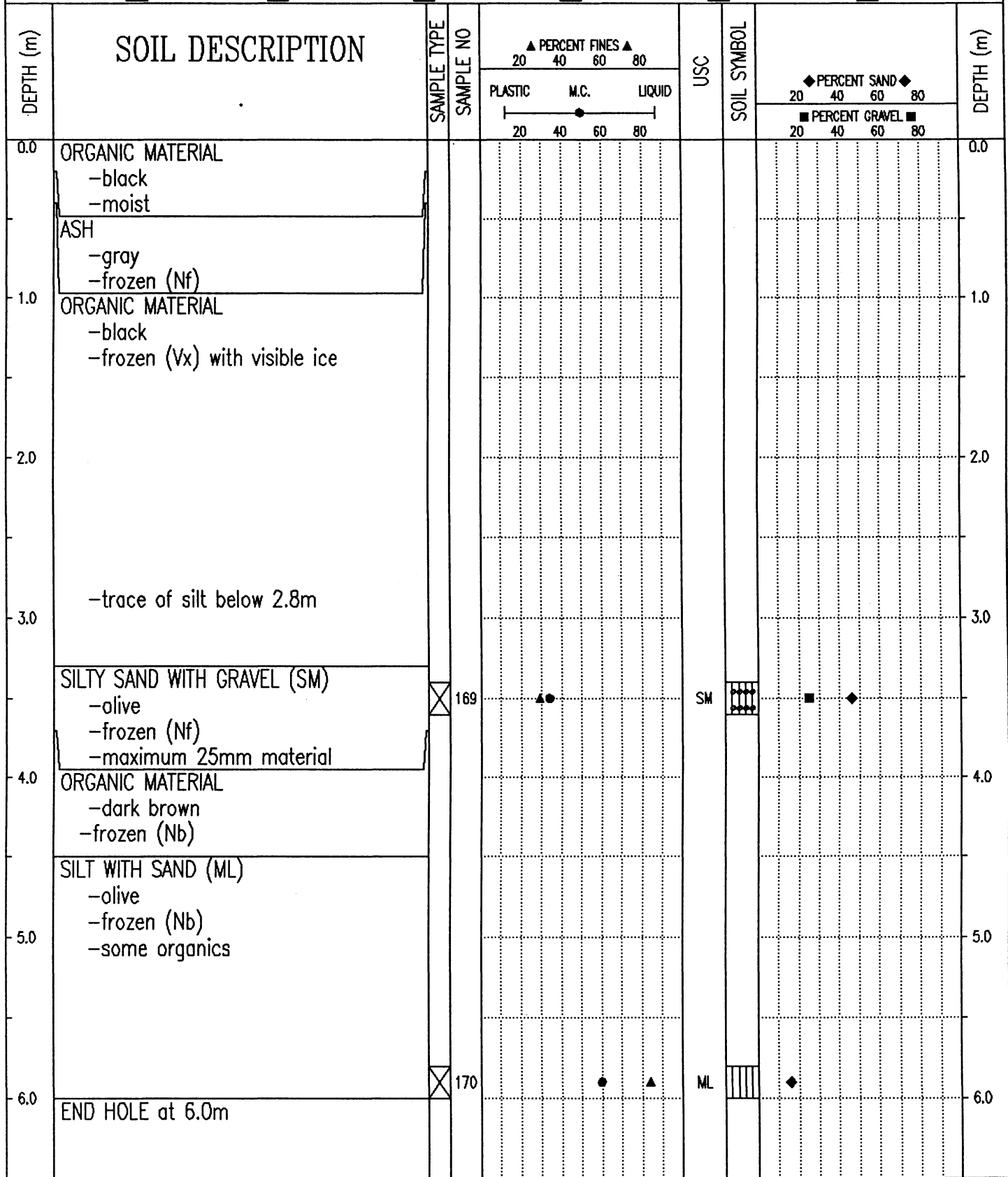
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC MATERIAL -dark brown -frozen										0.0
0.5	ASH -light gray -frozen -smooth drilling										1.0
1.5	ORGANIC MATERIAL -dark brown -frozen										2.0
2.0	SANDY SILT (ML) -dark brown -frozen (Nf) -high organic content										3.0
3.0		<input checked="" type="checkbox"/>	320	●	▲		ML		◆		3.0
4.0	SILTY GRAVEL WITH SAND (GM) -gray -frozen (Nf) -grindy drilling										4.0
4.5		<input checked="" type="checkbox"/>	321	●			GM		■		4.5
5.0	ORGANIC MATERIAL -dark brown -frozen -smooth drilling										5.0
6.0	END HOLE at 6.0m										6.0

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REVIEWED BY:
Fig. No:

COMPLETION DEPTH: 6.0 m
COMPLETE: 95/05/29

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 355-59
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1826+475 o/s 6m 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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REVIEWED BY:
Fig. No:

COMPLETION DEPTH: 6.0 m
COMPLETE: 95/05/16

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT		TEST HOLE NO: 358-133											
ENGINEERING-CAPITAL		SEGMENT 14		Project No: 092-202101-0314											
DRILL: 150mm SOLID STEM AUGER		LOCATION: Sta. 1826+525 o/s 10m Rt.		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 ◆			PERCENT GRAVEL ■			DEPTH (m)
				20	40	60			80	20	40	60	80	20	
0.0	ORGANIC MATERIAL -dark brown -saturated -smooth drilling													0.0	
1.0	ASH -light gray -saturated													1.0	
2.0	ORGANIC MATERIAL -dark brown -saturated													2.0	
3.0	-frozen below 2.5m -denser drilling below 2.5m													3.0	
4.0														4.0	
5.0	SILTY SAND WITH GRAVEL (SM) -gray -frozen (Nf)	X	319	●	▲		SM	◆◆◆◆	■	◆				5.0	
6.0	END HOLE at 5.0m -refusal													6.0	

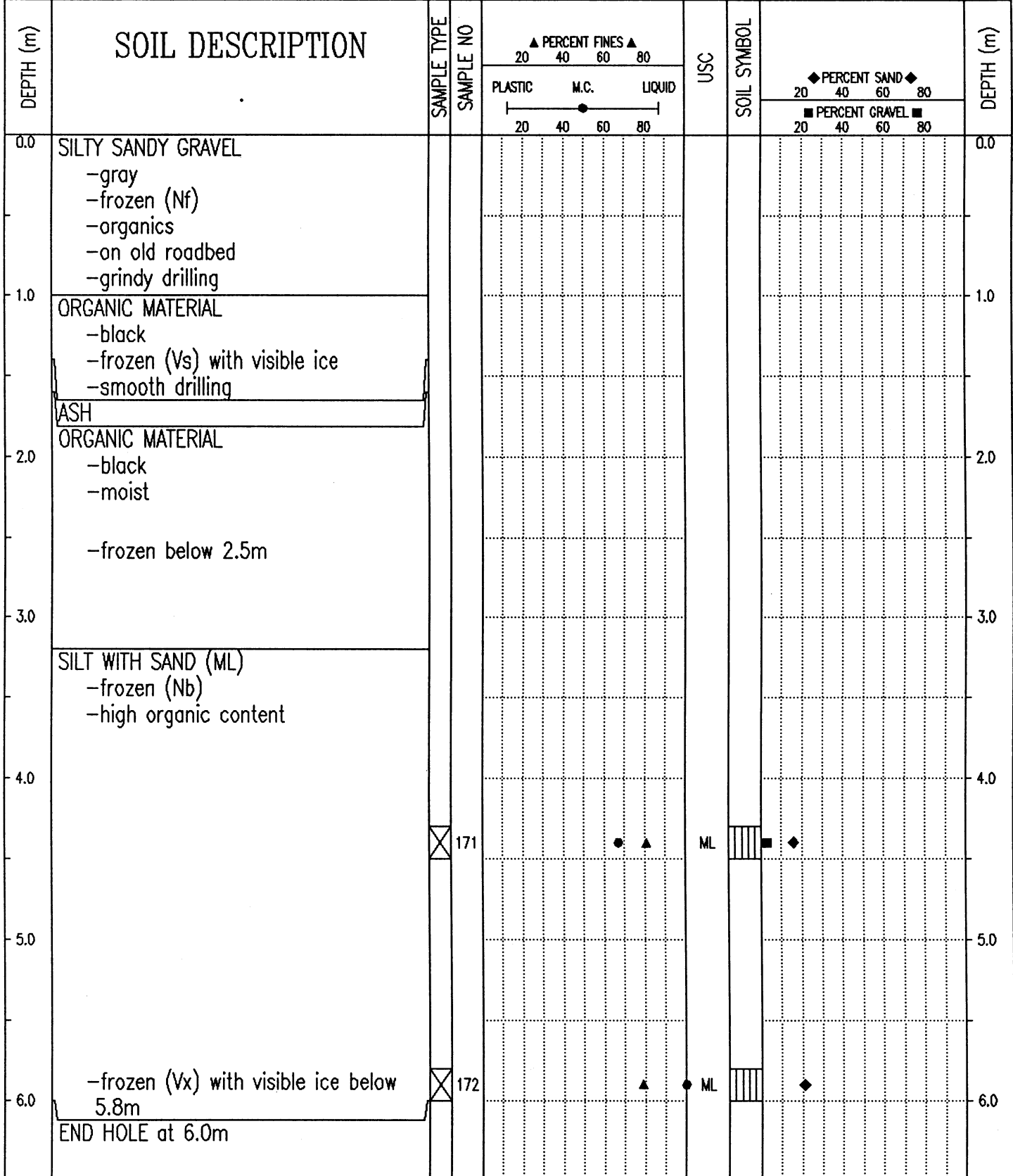
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Fig. No:

COMPLETION DEPTH: 5.0 m
COMPLETE: 95/05/29

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 355-60
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1826+571 o/s 8m Lt.	ELEVATION: 0.00 (m)

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



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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 MATERIAL -black -saturated -surface frozen to 0.2m -saturated below 0.2m											0.0
1.0	ASH -saturated											1.0
2.0	ORGANIC MATERIAL -black -frozen (Nb)	<input checked="" type="checkbox"/>	173	▲	●		GW-GM	▲▲▲	◆	■		2.0
2.0	WELL-GRADED GRAVEL WITH SILT AND SAND (GW-GM) -dark gray -frozen (Nf) -grindy drilling											
3.0	ORGANIC MATERIAL -black -frozen -smooth drilling	<input checked="" type="checkbox"/>	174		●		SM			■	◆	3.0
4.0	SILTY SAND WITH GRAVEL (SM) -dark gray -frozen (Vx) with visible ice -grindy drilling											
4.0	ORGANIC MATERIAL -black -frozen (Nb) -smooth drilling	<input checked="" type="checkbox"/>	175			▲	ML			■	◆	4.0
5.0	SANDY SILT (ML) -dark gray -frozen (Nb)											
5.0	END HOLE at 4.5m											
6.0												6.0

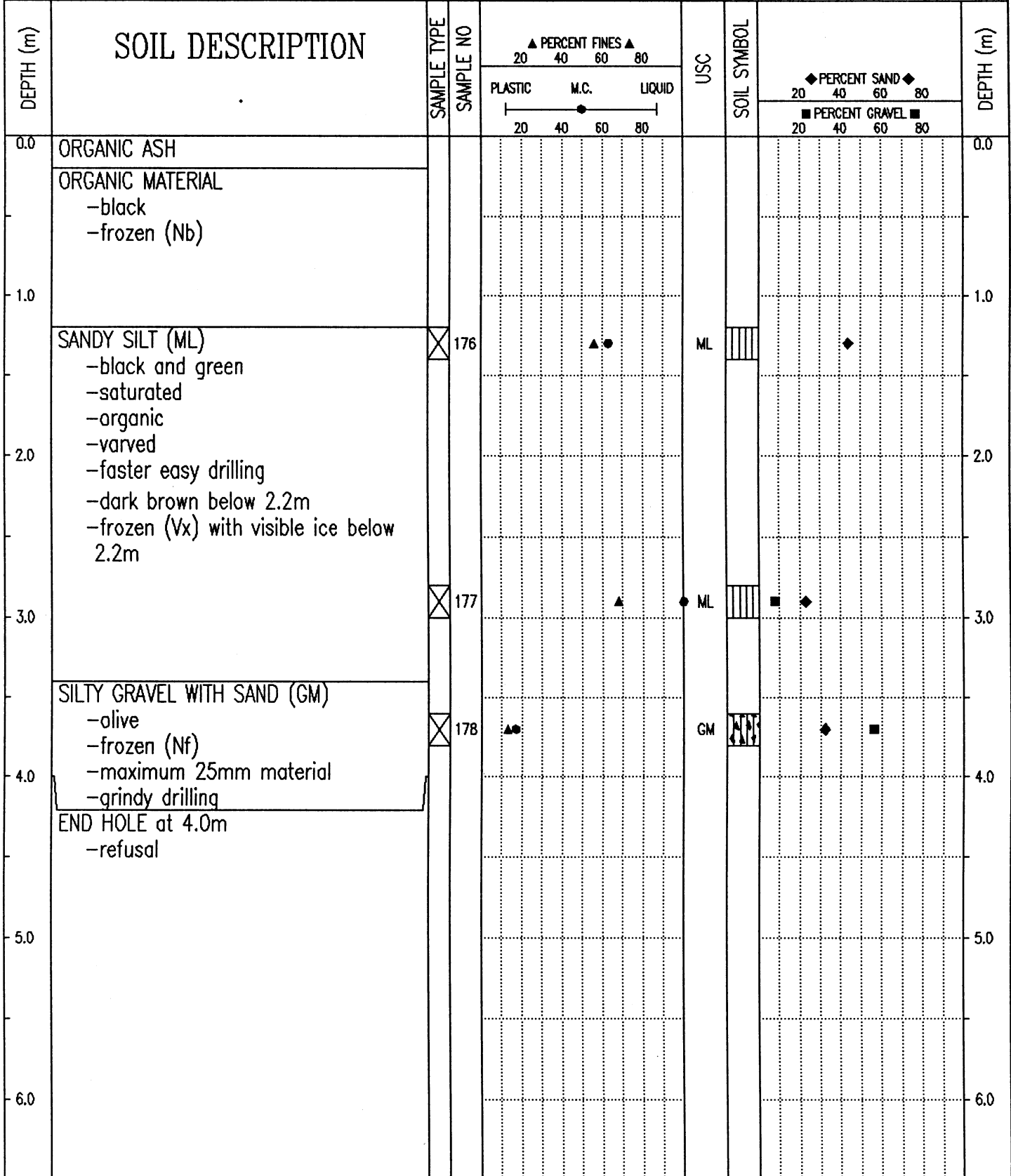
SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 358-132
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1826+660 o/s 14m Rt.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> 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	ORGANIC MATERIAL -dark brown -frozen -smooth drilling										0.0
1.0	-wet below 1.0m										1.0
2.0	GRAVELLY SAND -wet ORGANIC MATERIAL -dark brown -frozen										2.0
3.0	SILTY GRAVEL WITH SAND (GM) -gray -frozen (Nf) -grindy drilling -sample #317 contaminated by organics from above -smooth drilling	<input checked="" type="checkbox"/>	317	▲			GM	◆	■		3.0
4.0	POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM) -gray -frozen (Nf) -grindy drilling	<input checked="" type="checkbox"/>	318	▲			GP-GM	◆	■		4.0
5.0	END HOLE at 5.0m										5.0
6.0											6.0

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	REVIEWED BY:	COMPLETE: 95/05/29
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 355-62
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1826+750 o/s 2m Lt.	ELEVATION: 0.00 (m)

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



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Fig. No:

COMPLETION DEPTH: 4.0 m
COMPLETE: 95/05/16

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

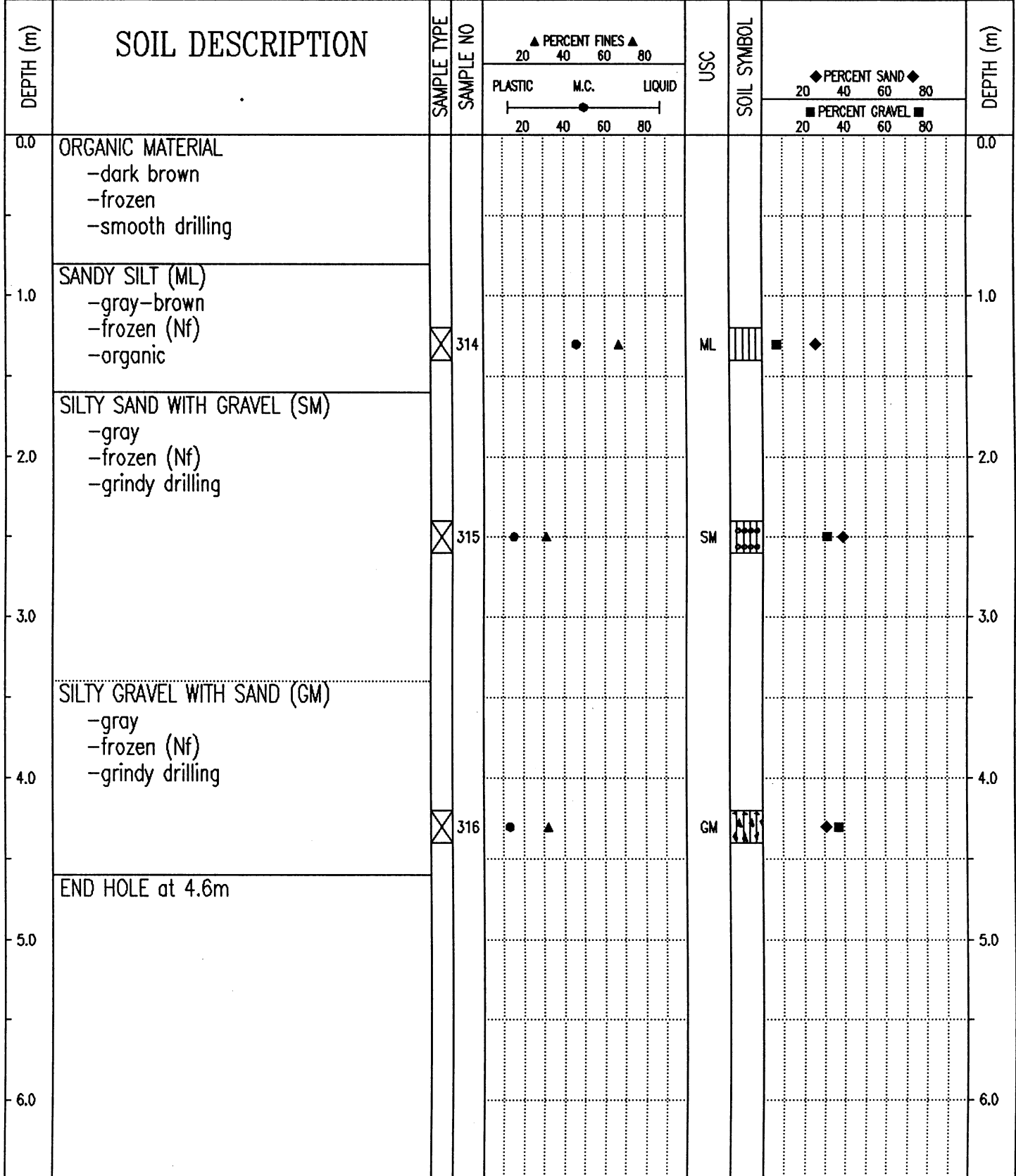
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC MATERIAL -black -saturated										0.0
	ASH -gray -saturated										
1.0	SANDY SILT (ML) -black -frozen (Nb) -high organic content	<input checked="" type="checkbox"/>	179				ML				1.0
2.0	SILTY GRAVEL WITH SAND (GM) -olive -frozen (Nb) -maximum 50mm material -sub-angular to angular -grindy slow drilling										
3.0		<input checked="" type="checkbox"/>	180				GM				3.0
4.0											
5.0		<input checked="" type="checkbox"/>	181				GM				5.0
6.0	END HOLE at 4.5m -water on surface -boulders to 1000mm on surface										6.0

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LOGGED BY: KJ	COMPLETION DEPTH: 4.5 m
REVIEWED BY:	COMPLETE: 95/05/16
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 358-131
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1826+835 o/s 20m Rt.	ELEVATION: 0.00 (m)

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



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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 355-64
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1826+875 o/s 4m 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	ORGANIC MATERIAL -frozen									0.0	
	ASH -gray -frozen										
1.0	ORGANIC MATERIAL -frozen -smooth drilling									1.0	
	SILT WITH SAND (ML) -gray -frozen (Nf)	<input checked="" type="checkbox"/>	182				ML				
2.0										2.0	
3.0	SILTY SAND (SM) -gray -frozen (Vx) with visible ice -grindy drilling	<input checked="" type="checkbox"/>	183				SM			3.0	
4.0	END HOLE at 3.8m -refusal									4.0	
5.0										5.0	
6.0										6.0	

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Fig. No:

COMPLETION DEPTH: 3.8 m
COMPLETE: 95/05/24

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT		TEST HOLE NO: 358-130								
ENGINEERING-CAPITAL		SEGMENT 14		Project No: 092-202101-0314								
DRILL: 150mm SOLID STEM AUGER		LOCATION: Sta. 1826+950 o/s 18m Rt.		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
SAMPLE TYPE		AUGER		BULK								
SAMPLE TYPE		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 MATERIAL -dark brown -moist -smooth drilling										0.0	
2.0	SILTY GRAVEL WITH SAND (GM) -gray -frozen (Nf) -grindy drilling	☒	311	▲			GM	◆	■		2.0	
3.0		☒	312	●	▲		GM	◆	■		3.0	
4.0	POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM) -gray -frozen (Nf) -grindy drilling END HOLE at 4.0m	☒	313	▲			GP-GM	◆	■		4.0	

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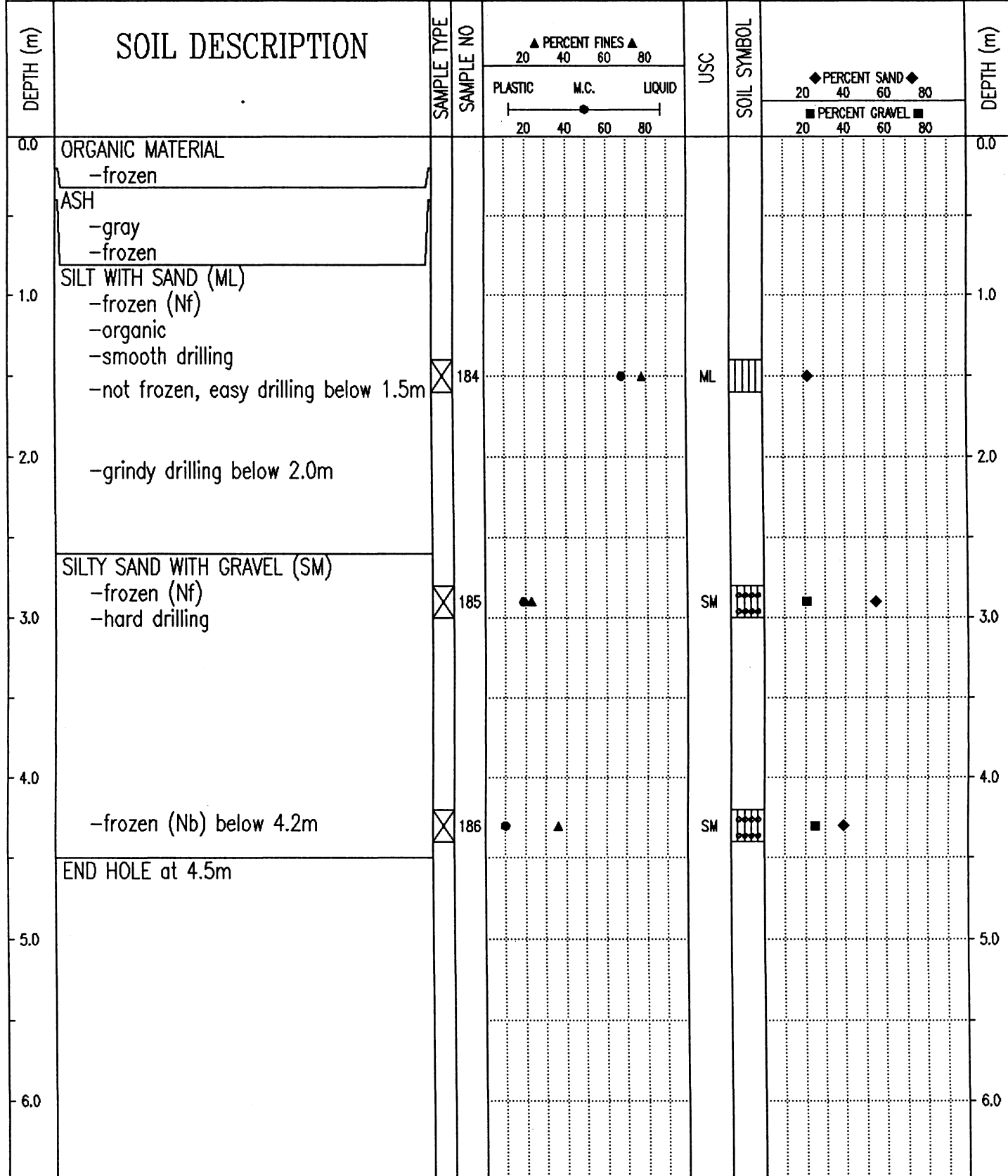
COMPLETION DEPTH: 4.0 m
COMPLETE: 95/05/28

SUBSURFACE EXPLORATION AND TEST REPORT SHAKWAK PROJECT TEST HOLE NO: 355-65

ENGINEERING-CAPITAL SEGMENT 14 Project No: 092-202101-0314

DRILL: 150mm SOLID STEM AUGER LOCATION: Sta. 1827+000 o/s 2m Rt. ELEVATION: 0.00 (m)

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



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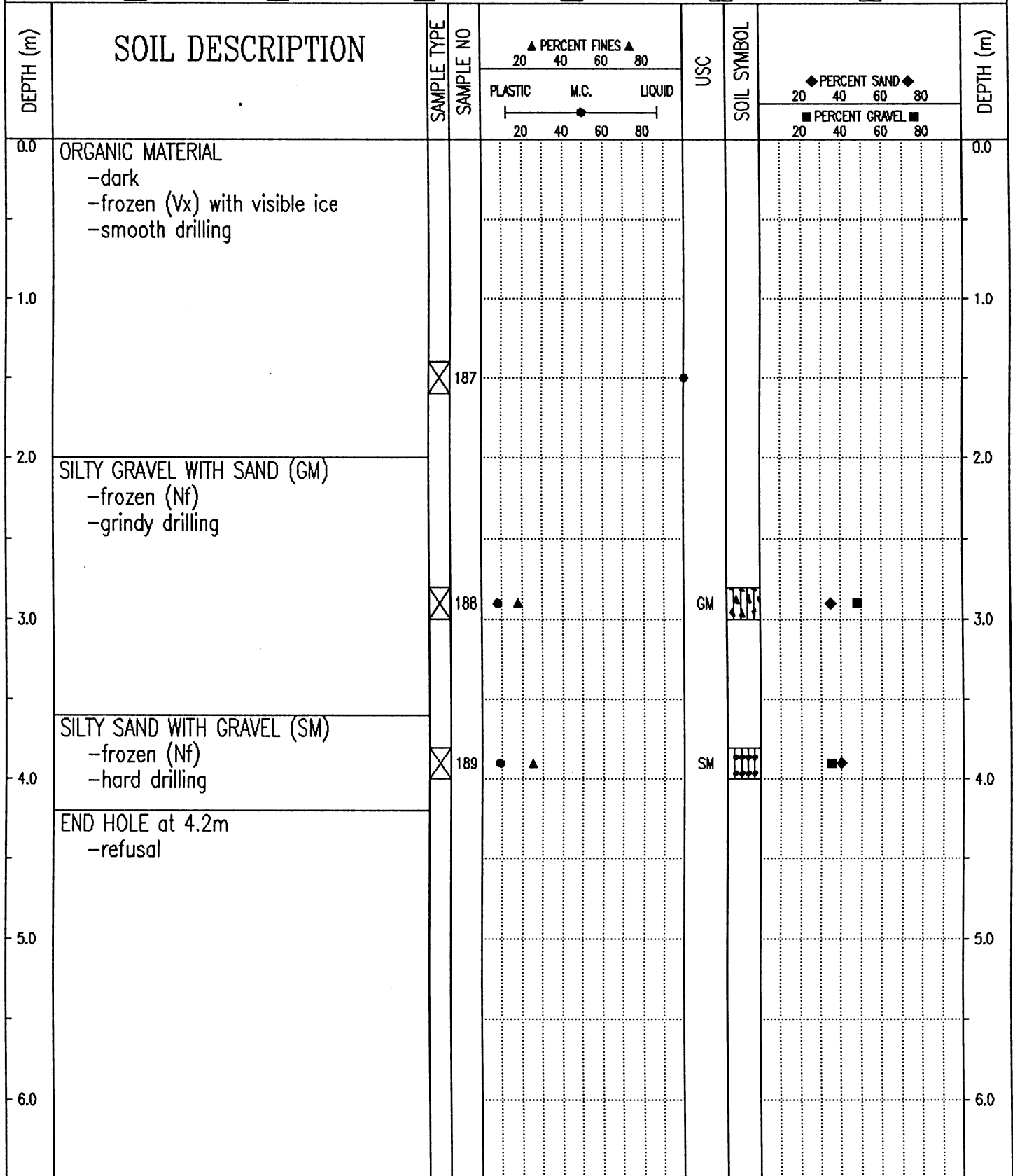
Fig. No:

COMPLETION DEPTH: 4.5 m

COMPLETE: 95/05/24

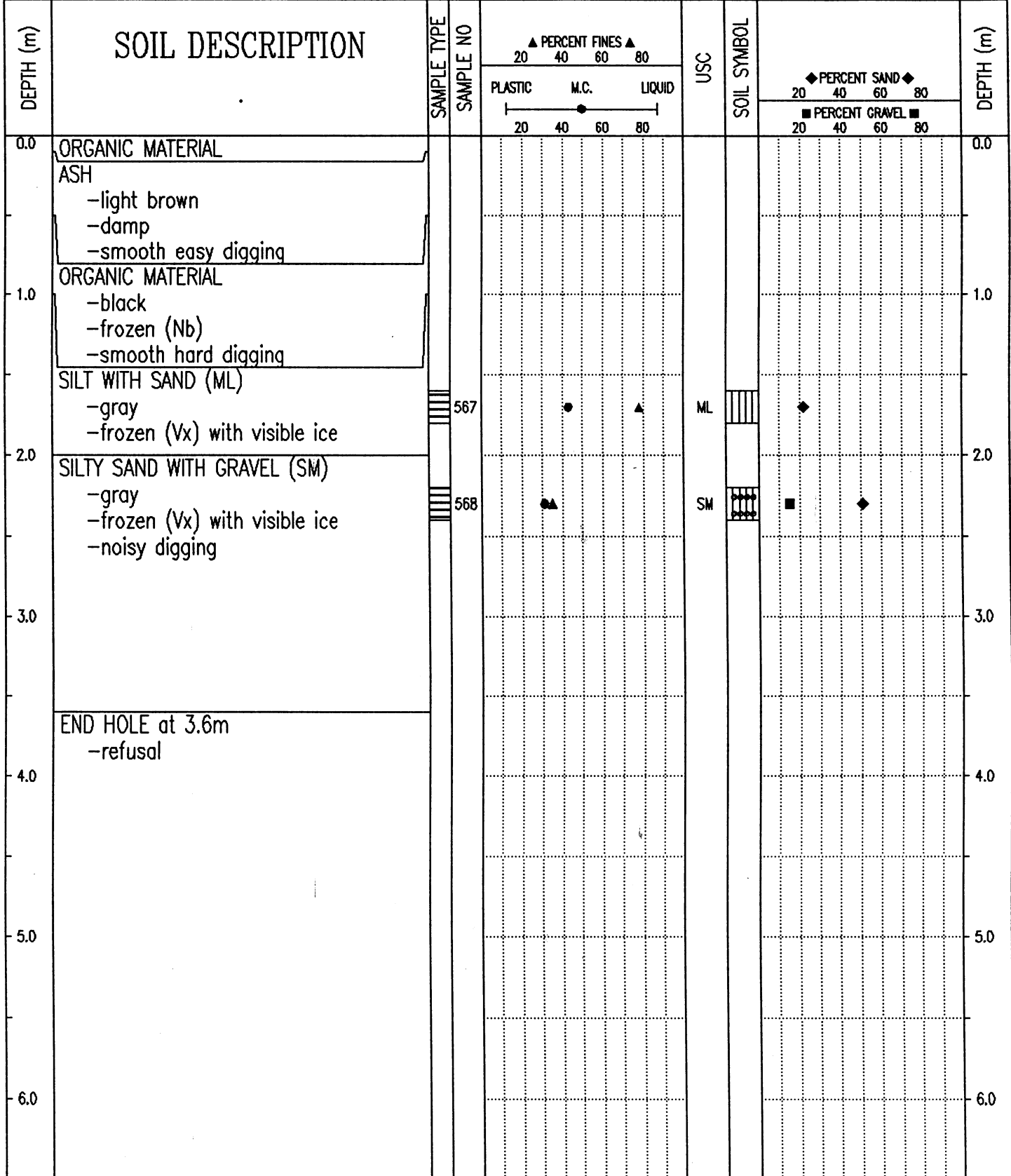
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 355-66
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1827+000 o/s 15m Lt.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> 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: 95/05/24
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SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE



SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 355-67
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1827+075 o/s 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		

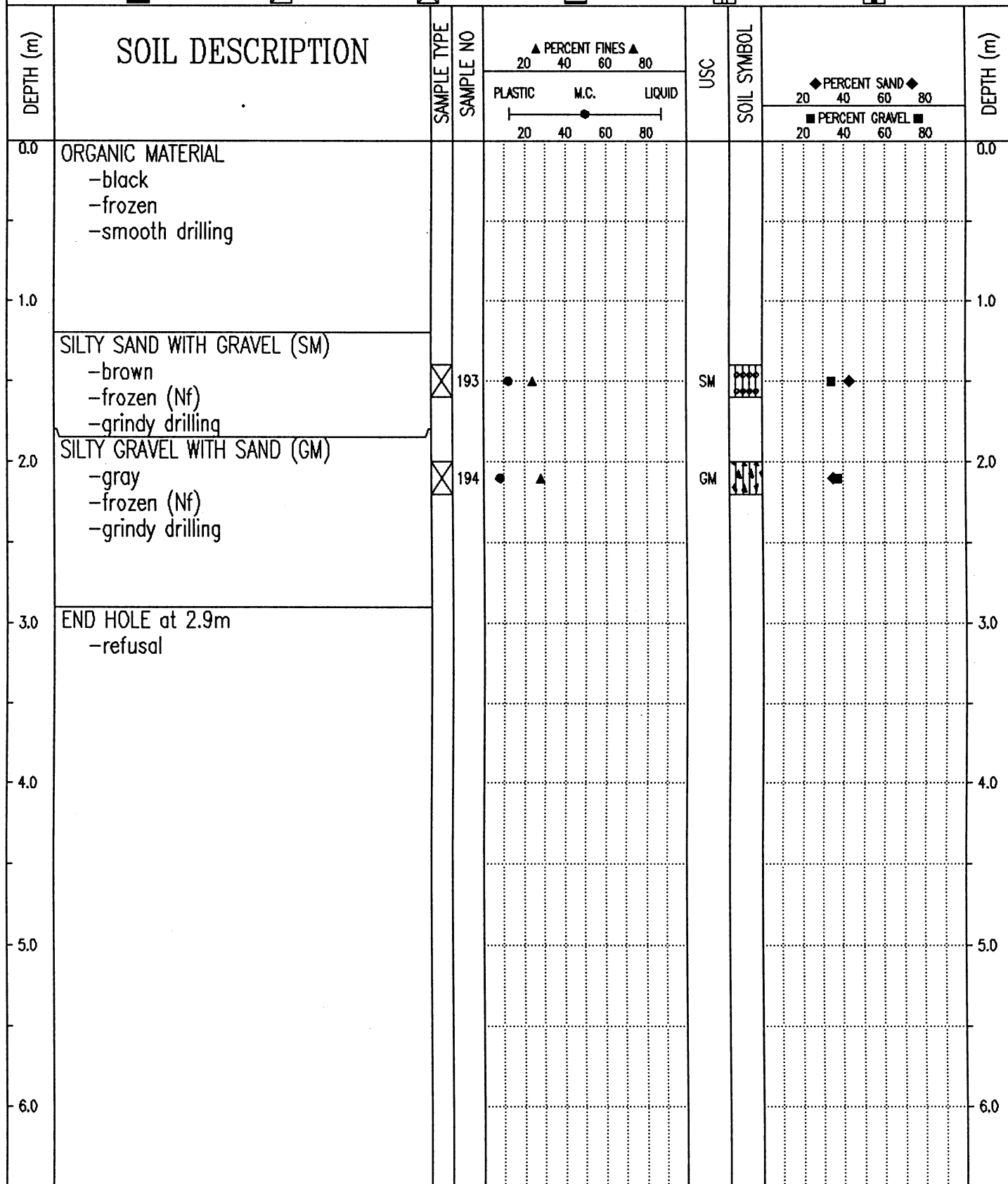
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲			USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■	PERCENT SAND ◆	
0.0	ORGANIC MATERIAL -black -frozen									0.0	
0.5	ASH -gray -frozen										
1.0	ORGANIC MATERIAL -black -frozen -smooth drilling									1.0	
2.0	SILT WITH SAND (ML) -gray -frozen (Vx) with visible ice	<input checked="" type="checkbox"/>	190				ML			2.0	
3.0	SILTY SAND WITH GRAVEL (SM) -frozen (Nf) -grindy drilling	<input checked="" type="checkbox"/>	191				SM			3.0	
4.0										4.0	
5.0		<input checked="" type="checkbox"/>	192				SM			5.0	
5.2	END HOLE at 5.2m -refusal									5.2	
6.0										6.0	

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Fig. No:

COMPLETION DEPTH: 5.2 m
COMPLETE: 95/05/24

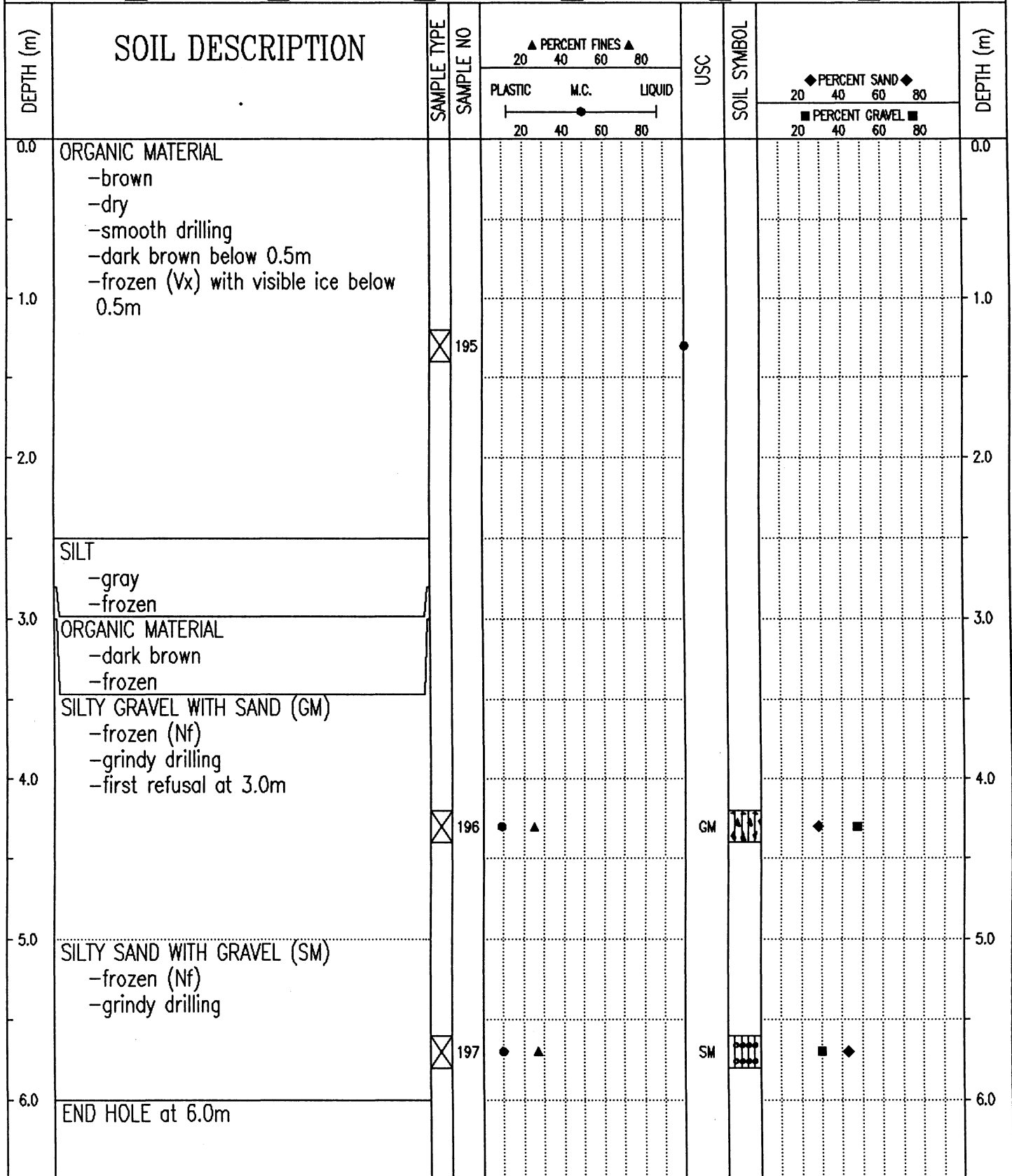
SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT	TEST HOLE NO: 355-68
ENGINEERING-CAPITAL		SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER		LOCATION: Sta. 1827+125 o/s 7m Lt.	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
			<input type="checkbox"/> BULK
			<input type="checkbox"/> TUBE
			<input type="checkbox"/> CORE



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LOGGED BY: CC	COMPLETION DEPTH: 2.9 m
REVIEWED BY:	COMPLETE: 95/05/24
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 355-69
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1827+149	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: 6.0 m
COMPLETE: 95/05/24

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 369-268
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
BACKHOE: HITACHI EX 200 LC	LOCATION: Sta. 1827+225 o/s 30m Rt.	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 ◆		PERCENT GRAVEL ■		DEPTH (m)
				20	40	60			80	20	40	60	
0.0	ORGANIC MATERIAL -smooth easy digging											0.0	
0.0 - 1.0	ASH -light brown -frozen (Vx) with visible ice -smooth hard digging												
1.0	ORGANIC MATERIAL -black -frozen (Vx) with visible ice											1.0	
2.0	SILT WITH SAND (ML) -light brown -frozen (Nb)		569				ML					2.0	
3.0	END HOLE at 2.9m -refusal											3.0	
4.0												4.0	
5.0												5.0	
6.0												6.0	

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 355-70
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1827+250 o/s 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	80	
0.0	ORGANIC MATERIAL -dark -frozen										0.0
0.8	ASH -gray -frozen										
1.0	ORGANIC MATERIAL -black -saturated -smooth drilling -frozen below 0.8m										1.0
3.0	SILTY GRAVEL WITH SAND (GM) -gray -frozen (Nf) -grindy drilling	<input checked="" type="checkbox"/>	198	●	▲		GM		◆	■	3.0
4.0	SILTY SAND WITH GRAVEL (SM) -gray -frozen (Nf) -grindy drilling	<input checked="" type="checkbox"/>	199	●	▲		SM		■	◆	4.0
4.5	END HOLE at 4.5m										

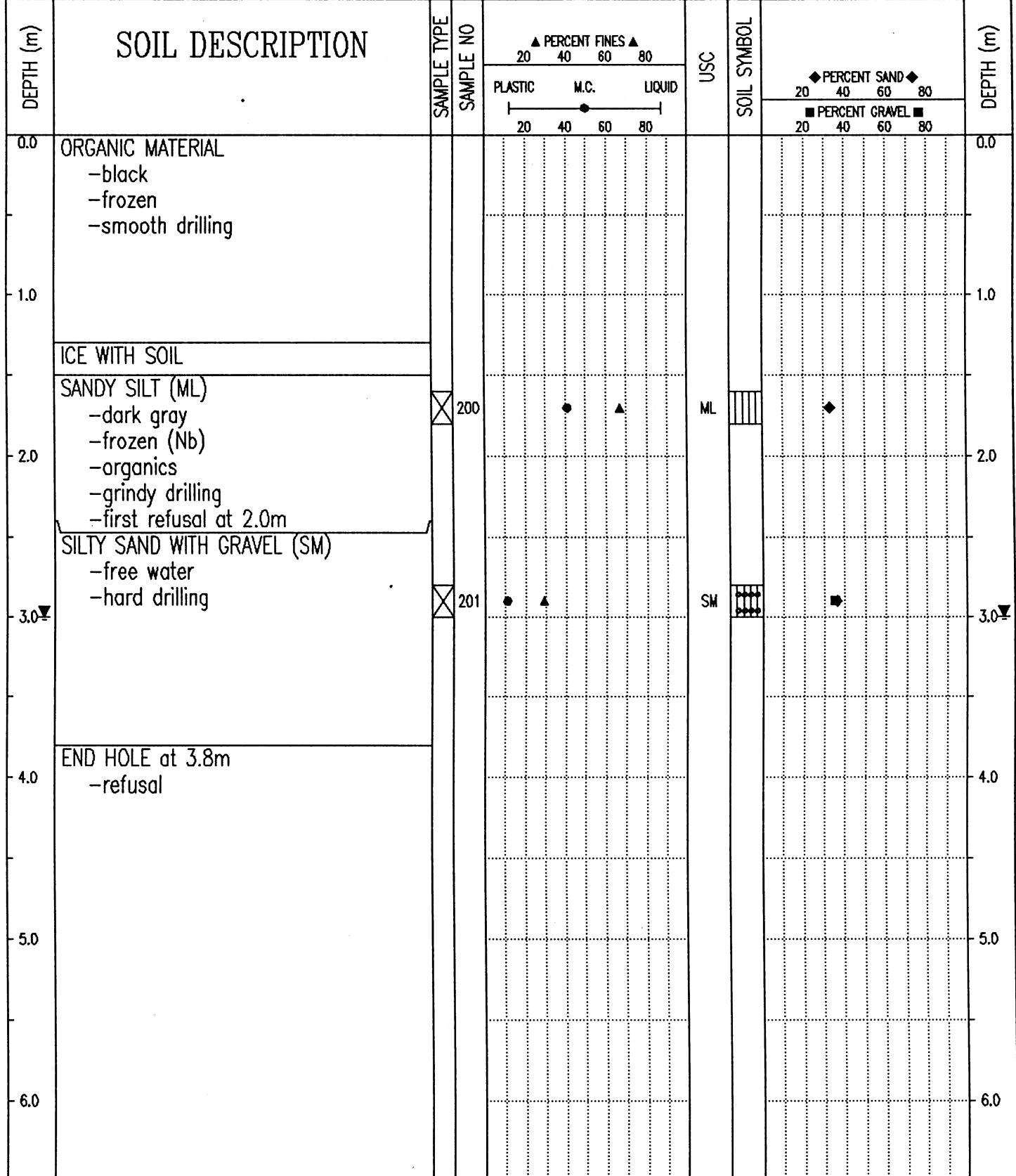
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Fig. No:

COMPLETION DEPTH: 4.5 m
COMPLETE: 95/05/24

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 355-71
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1827+325 o/s 13m Lt.	ELEVATION: 0.00 (m)

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



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Fig. No:

COMPLETION DEPTH: 3.8 m
COMPLETE: 95/05/24

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT	TEST HOLE NO: 355-72
ENGINEERING-CAPITAL		SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER		LOCATION: Sta. 1827+335 o/s 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	
0.0	ORGANIC MATERIAL -black -frozen										0.0
	ASH -gray -frozen										
1.0	ORGANIC MATERIAL -black -frozen -smooth drilling -grindy drilling below 1.6m										1.0
2.0	END HOLE at 2.0m -refusal twice										2.0
3.0											3.0
4.0											4.0
5.0											5.0
6.0											6.0

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	REVIEWED BY:	COMPLETE: 95/05/24
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 355-73
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1827+450 o/s 3m 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 ◆		■ PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	MOSS										0.0	
0.0 - 1.5	ORGANIC MATERIAL -black -frozen -smooth drilling											
1.5 - 2.8	SANDY SILT (ML) -gray -frozen (Nf) -high organic content											
2.8 - 3.5		<input checked="" type="checkbox"/>	202				ML					
3.5 - 4.5	SILT WITH SAND (ML) -gray -frozen (Vx) with visible ice -high organic content											
4.5 - 4.5		<input checked="" type="checkbox"/>	203				ML					
4.5 - 4.5	END HOLE at 4.5m											

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REVIEWED BY:	COMPLETE: 95/05/24
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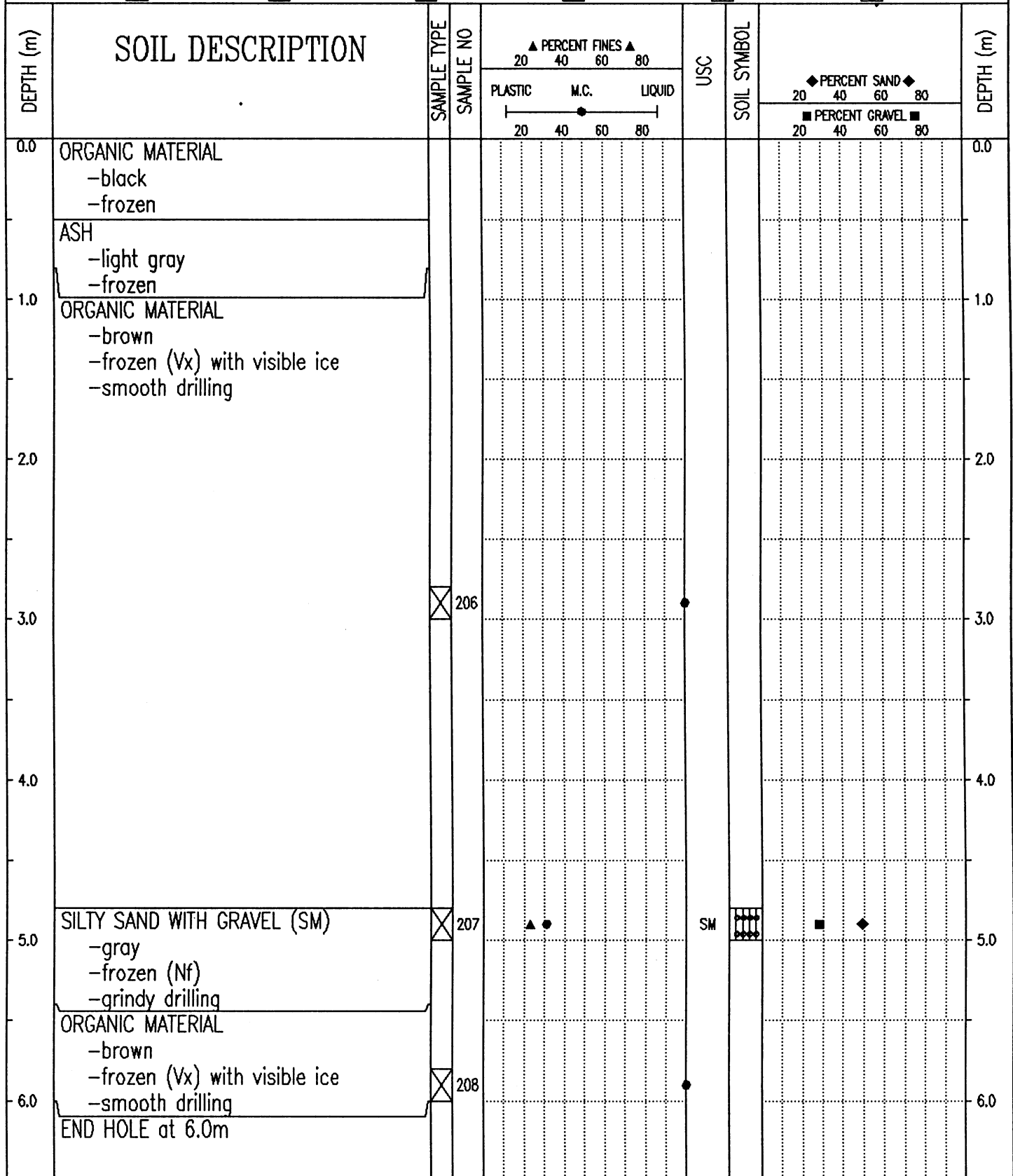
SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 355-74
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1827+525	ELEVATION: 0.00 (m)

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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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	
0.0	ORGANIC MATERIAL -moist -smooth drilling											0.0	
1.0	ASH -light gray -frozen											1.0	
2.0	ORGANIC MATERIAL -brown -frozen (Vx) with visible ice -traces of silt and sand											2.0	
3.0		<input checked="" type="checkbox"/>	204									3.0	
4.0	ORGANICS AND ICE											4.0	
5.0												5.0	
6.0	ORGANIC MATERIAL -frozen											6.0	
7.0												7.0	
8.0	SILTY SAND WITH GRAVEL (SM) -frozen (Nf) -grindy drilling											8.0	
9.0		<input checked="" type="checkbox"/>	205					SM				9.0	
9.0	END HOLE at 9.0m											9.0	
10.0												10.0	

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 355-75
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1827+525 o/s 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		

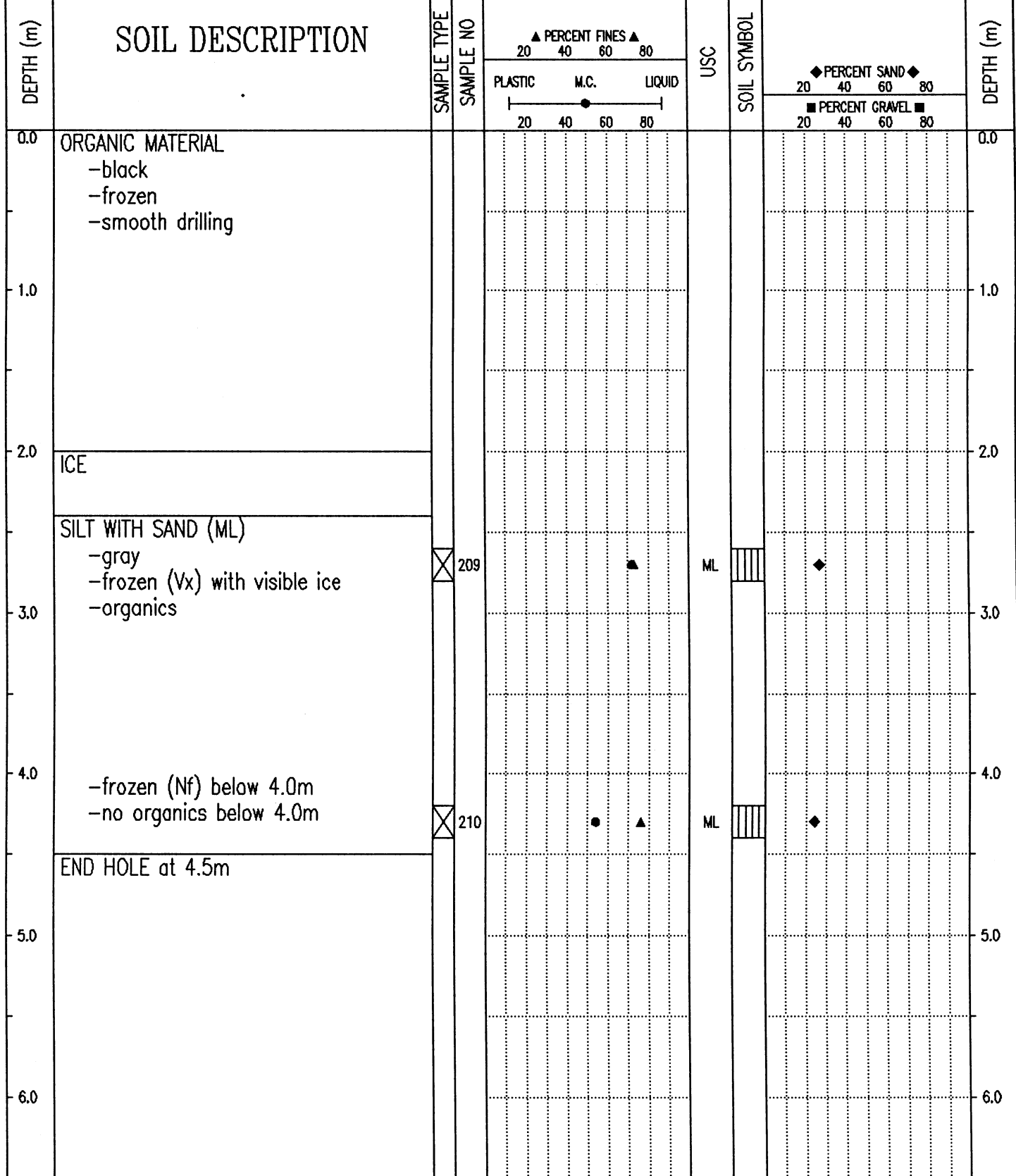


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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 355-76
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1827+625	ELEVATION: 0.00 (m)

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



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COMPLETION DEPTH: 4.5 m
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SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT	TEST HOLE NO: 355-77
ENGINEERING-CAPITAL		SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER		LOCATION: Sta. 1827+725 o/s 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 ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC MATERIAL -frozen											0.0
0.5	ASH -light gray -frozen -smooth drilling											1.0
1.0	ICE WITH ASH											1.0
2.0	ORGANIC MATERIAL -dark brown -frozen											2.0
3.0	SANDY SILT (ML) -gray -frozen (Nf) -organics	<input checked="" type="checkbox"/>	211				ML					3.0
4.0	ORGANIC MATERIAL -frozen (Vx) visible ice	<input checked="" type="checkbox"/>	212									4.0
5.0	END HOLE at 4.5m											5.0
6.0												6.0

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COMPLETION DEPTH: 4.5 m
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 355-78
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1827+825 o/s 1m 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)	
				20	40	60			80	20		40
				PLASTIC	M.C.	LIQUID			■ PERCENT GRAVEL ■			
				20	40	60	80		20	40	60	80
0.0	ORGANIC MATERIAL -dark brown -frozen (Nf) -smooth drilling											0.0
1.0												1.0
2.0												2.0
3.0												3.0
4.0												4.0
4.5	END HOLE at 4.5m -water on surface	<input checked="" type="checkbox"/>	213									4.5
5.0												5.0
6.0												6.0

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 355-79
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1827+943 o/s 15m 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 MATERIAL -frozen										0.0
	ASH -light gray -frozen										
1.0	ORGANIC MATERIAL -dark brown -frozen -smooth drilling										1.0
2.0											2.0
3.0	SANDY SILTY ORGANIC MATERIAL -frozen with visible ice										3.0
4.0											4.0
5.0	END HOLE at 4.5m										5.0
6.0											6.0

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COMPLETION DEPTH: 4.5 m
COMPLETE: 95/05/25

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 355-80
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1827+943 o/s 15m Rt.	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			20	40	60	
0.0	ORGANIC MATERIAL -dark brown -frozen											0.0
	ASH -light gray -frozen											
1.0	ORGANIC MATERIAL -dark brown -frozen -trace of sandy silt -smooth drilling	<input checked="" type="checkbox"/>	214									1.0
2.0												2.0
3.0	WOOD -grindy drilling											3.0
4.0	ORGANIC MATERIAL -frozen (Vx) with visible ice -some soil -smooth drilling	<input checked="" type="checkbox"/>	215									4.0
5.0	END HOLE at 4.5m											5.0
6.0												6.0

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 355-81
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1828+029 o/s 2m 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			20	80	
0.0	ORGANIC MATERIAL -moist -dark brown below 0.3m -frozen below 0.3m -smooth drilling									0.0	
2.0	ASH AND ICE -light gray									2.0	
3.0	SANDY SILT -frozen (Vx) with visible ice -high organic content	<input checked="" type="checkbox"/>	216							3.0	
4.0	ICE -smooth drilling									4.0	
5.0	SANDY SILT (ML) -frozen (Nf) -high organic content	<input checked="" type="checkbox"/>	217				ML			5.0	
6.0	ICE AND SOIL									6.0	
6.0	END HOLE at 6.0m									6.0	

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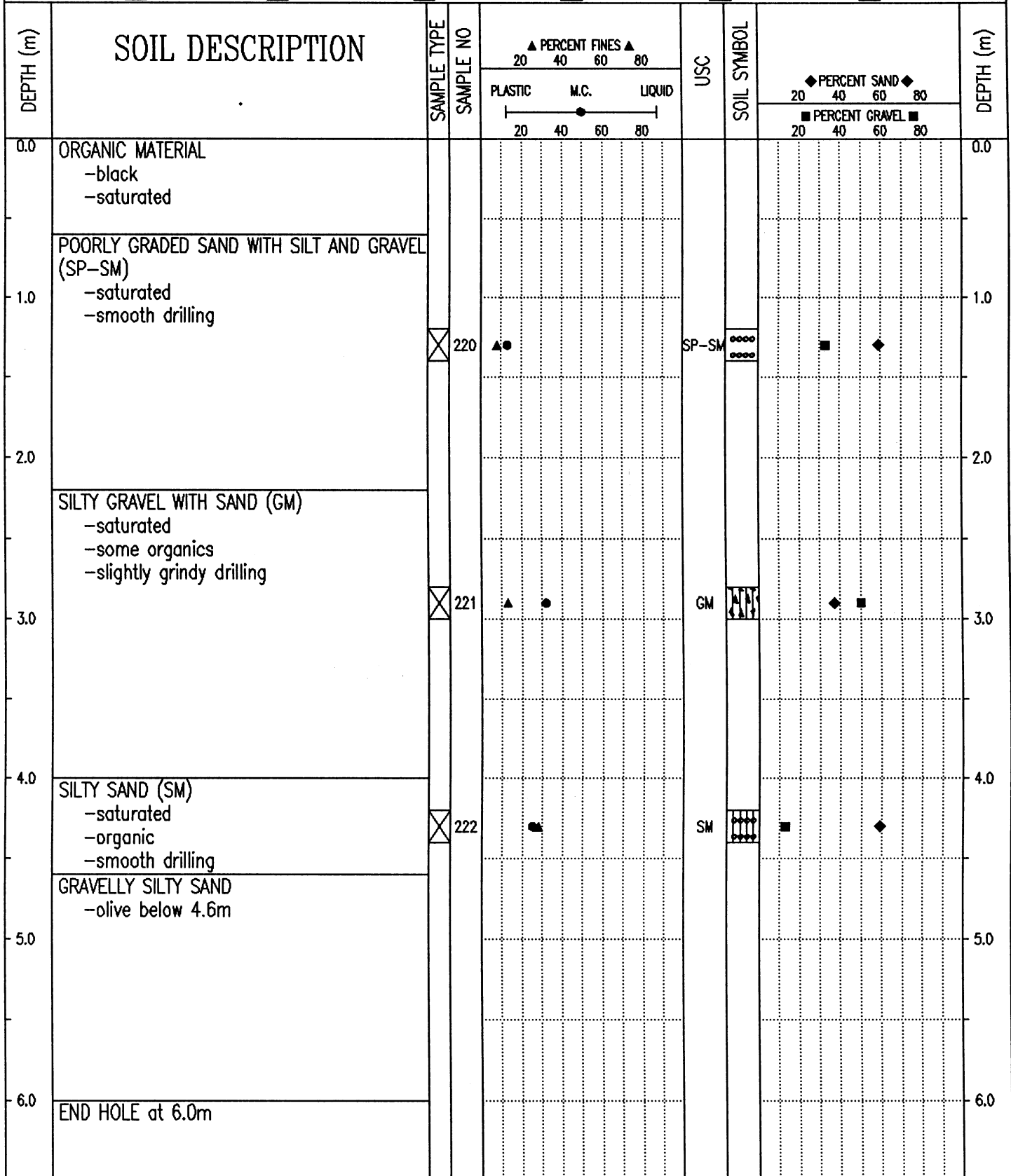
COMPLETION DEPTH: 6.0 m
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 355-82
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1828+125 o/s 2m Lt.	ELEVATION: 0.00 (m)
SAMPLE 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 ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC MATERIAL -black -frozen -smooth drilling											0.0
1.0	ASH -light gray -frozen											1.0
2.0	ORGANIC MATERIAL -brown -frozen											2.0
3.0	SILTY GRAVEL WITH SAND (GM) -gray -frozen (Vx) with visible ice -grindy drilling	<input checked="" type="checkbox"/>	218	●			GM	▲▲▲	◆	■		3.0
4.0	ORGANIC MATERIAL -black -frozen -smooth drilling											4.0
5.0	POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM) -gray -frozen (Nf) -sub-angular to rounded -grindy drilling END HOLE at 5.0m -refusal	<input checked="" type="checkbox"/>	219	●			GP-GM	▲▲▲	◆	■		5.0
6.0												6.0

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 355-83
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1828+225 o/s 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		

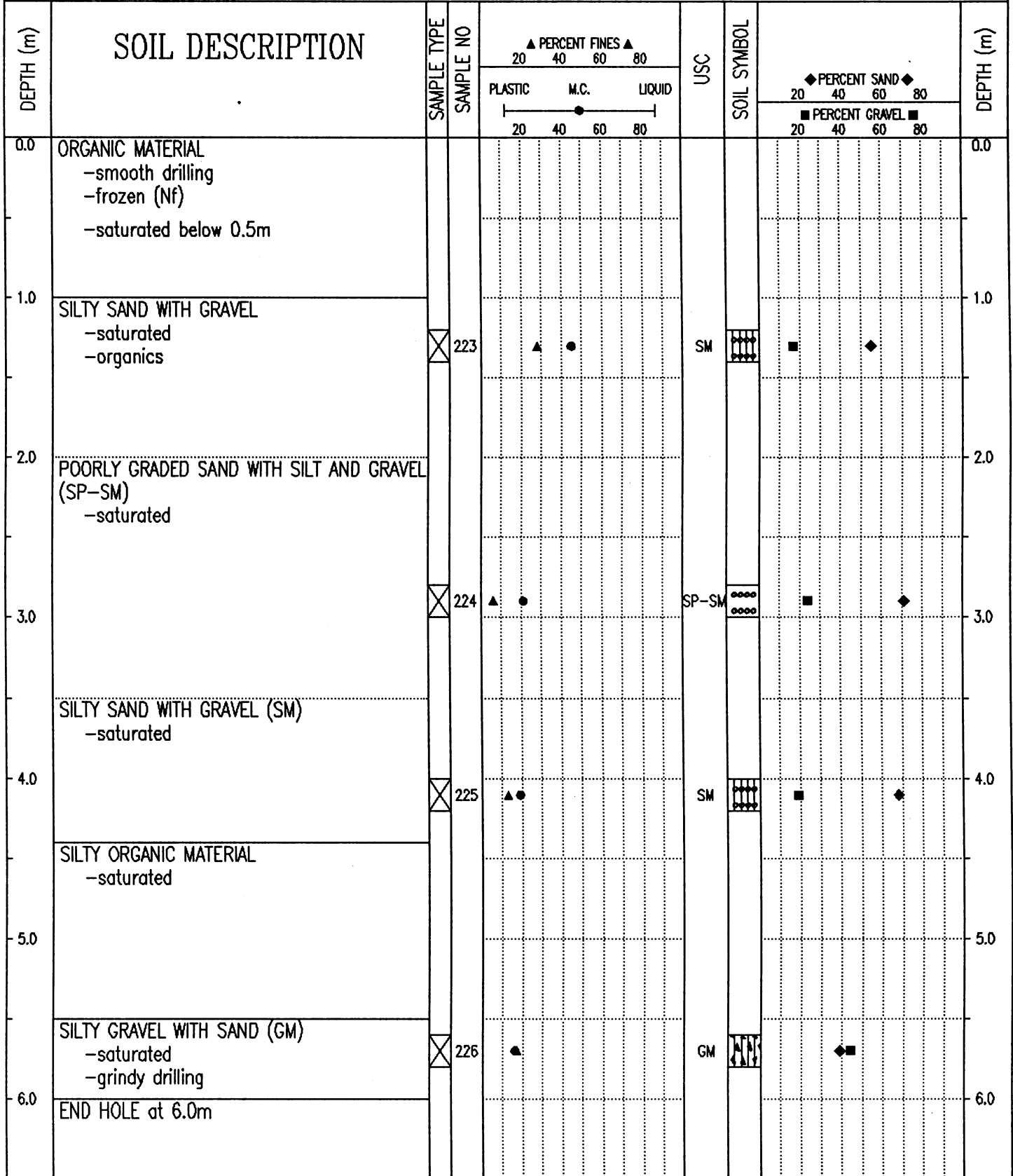


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COMPLETION DEPTH: 6.0 m
COMPLETE: 95/05/25

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 355-84
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1828+225 o/s 15m 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		

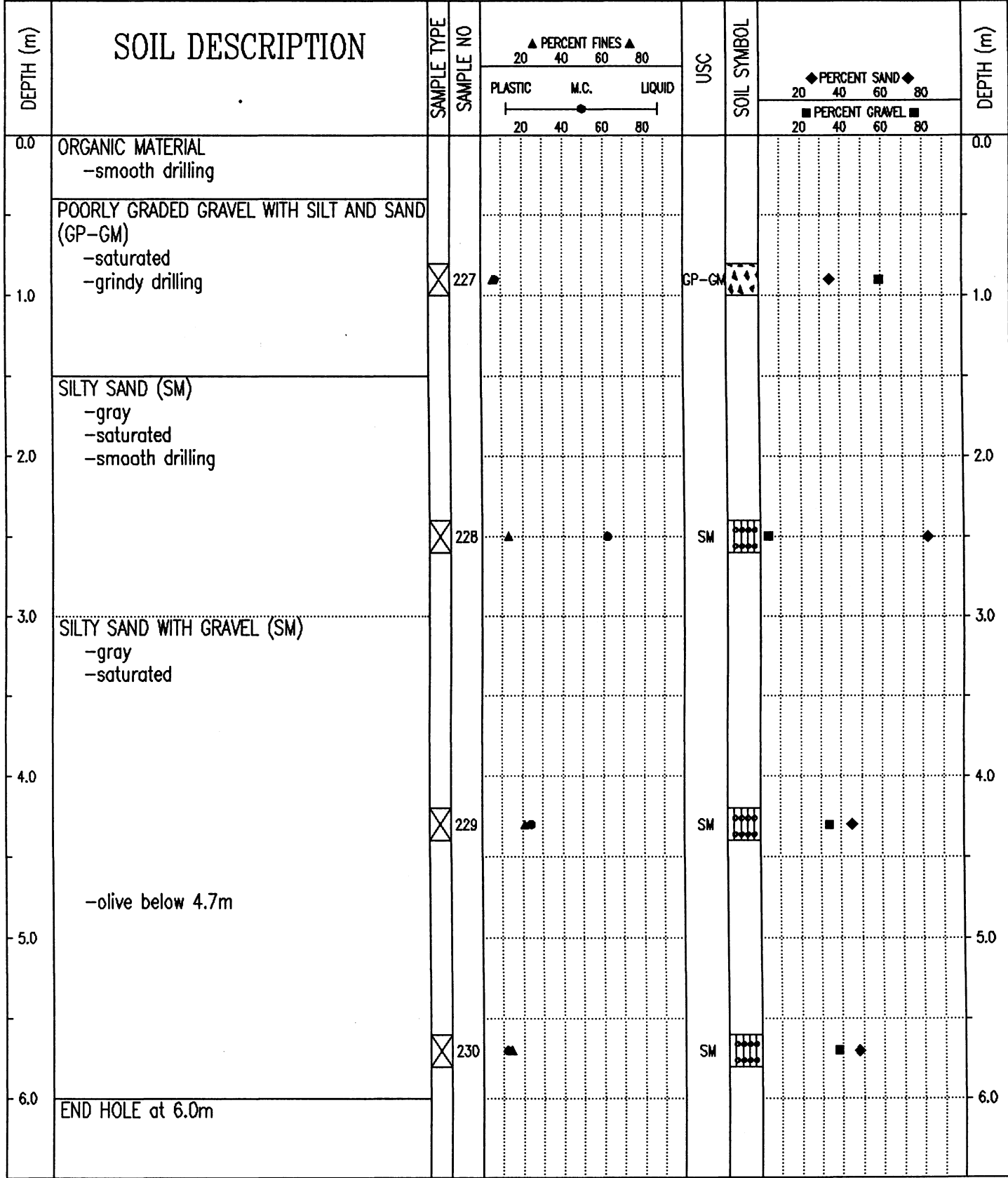


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COMPLETION DEPTH: 6.0 m
COMPLETE: 95/05/25

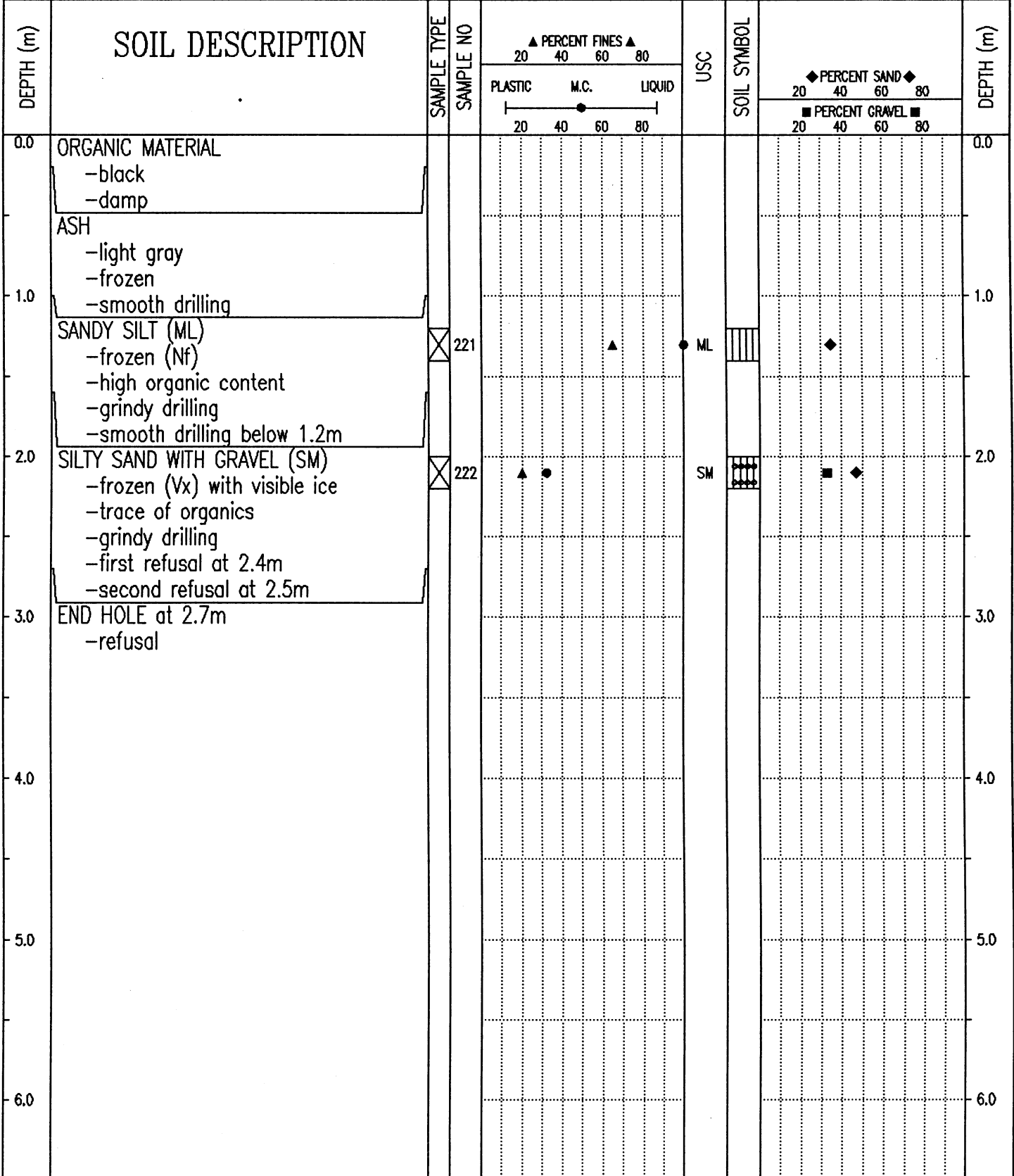
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE



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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 355-86
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1828+325 o/s 3m Lt.	ELEVATION: 0.00 (m)

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



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COMPLETION DEPTH: 2.7 m
COMPLETE: 95/05/25

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT		TEST HOLE NO: 355-87									
ENGINEERING-CAPITAL		SEGMENT 14		Project No: 092-202101-0314									
DRILL: 150mm SOLID STEM AUGER		LOCATION: Sta. 1828+427 o/s 2m Rt.		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 ■				
				20	40	60	80		20	40	60	80	
0.0	ASH -light gray -frozen -smooth drilling												0.0
1.0	SILT (ML) -frozen (Nf)												1.0
2.0	SILTY SAND WITH GRAVEL (SM) -gray -frozen (Vx) with visible ice -grindy drilling		223				ML						2.0
4.0			224				SM						4.0
4.0			225				SM						4.0
5.0	END HOLE at 4.5m -refusal twice												5.0
6.0													6.0

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COMPLETION DEPTH: 4.5 m
COMPLETE: 95/05/25

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT		TEST HOLE NO: 358-129							
ENGINEERING-CAPITAL		SEGMENT 14		Project No: 092-202101-0314							
DRILL: 150mm SOLID STEM AUGER		LOCATION: Sta. 1828+526 o/s 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			PERCENT GRAVEL ■	PERCENT SAND ◆	
0.0	ORGANIC MATERIAL -dark brown -saturated -trace of silt -smooth drilling										0.0
1.0											1.0
2.0											2.0
3.0	SILTY GRAVEL WITH SAND (GM) -gray -saturated -grindy drilling -frozen (Nf) below 2.8m	<input checked="" type="checkbox"/>	309	●	▲		GM		◆	■	3.0
4.0	SILTY SAND WITH GRAVEL (SM) -gray -frozen (Nf) -grindy drilling	<input checked="" type="checkbox"/>	310	●	▲		SM		◆	■	4.0
5.0	END HOLE at 4.5m										5.0
6.0											6.0

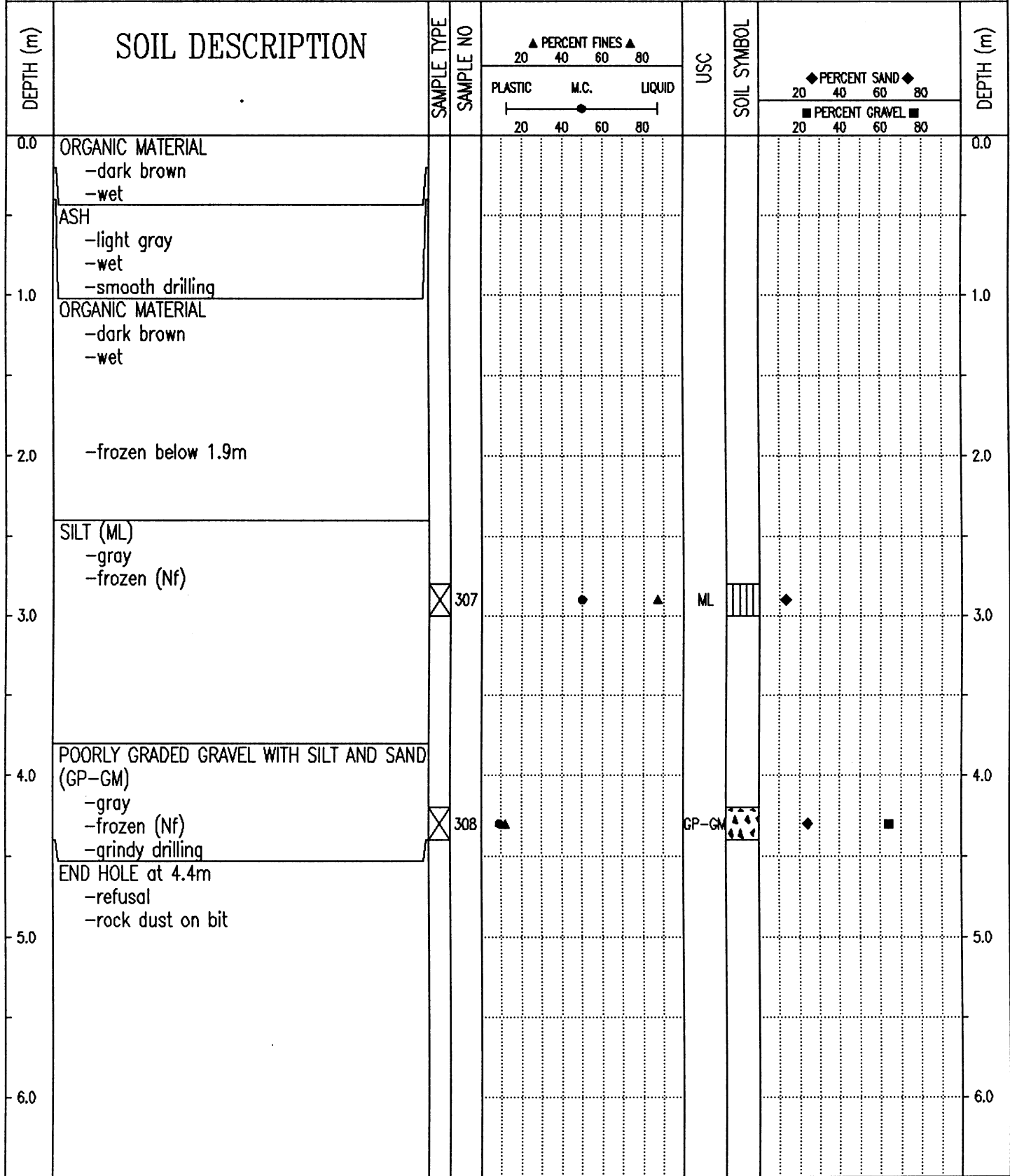
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COMPLETION DEPTH: 4.5 m
COMPLETE: 95/05/28

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 358-128
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1828+620	ELEVATION: 0.00 (m)

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

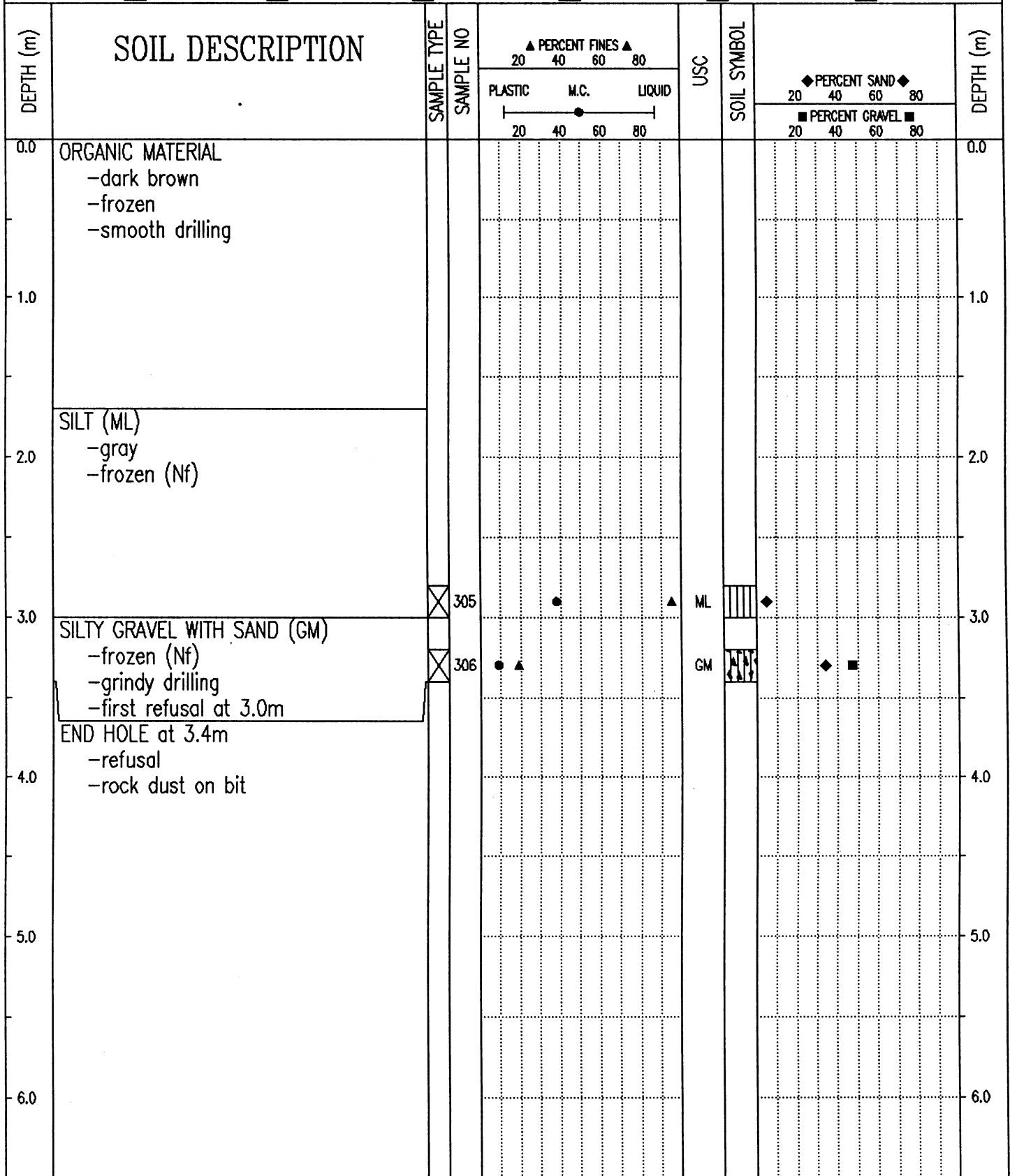


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Fig. No:

COMPLETION DEPTH: 4.4 m
COMPLETE: 95/05/28

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 358-127
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1828+696 o/s 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		



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COMPLETION DEPTH: 3.4 m
COMPLETE: 95/05/28

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 358-126
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1828+785 o/s 18m 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 MATERIAL -dark brown -frozen -smooth drilling									0.0	
1.0	ASH -light gray -frozen									1.0	
2.0	ORGANIC MATERIAL -dark brown -frozen									2.0	
3.0	SANDY SILT (ML) -frozen (Nf) -grindy drilling -first refusal at 2.4m		304				ML				
3.0	SILTY GRAVEL WITH SAND (GM) -gray -frozen (Nf) -grindy drilling -second refusal at 3.1m		303				GM				
4.0	END HOLE at 3.2m -refusal -rock dust on bit									4.0	
5.0										5.0	
6.0										6.0	

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 358-125
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1828+925 o/s 2m Rt.	ELEVATION: 0.00 (m)

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

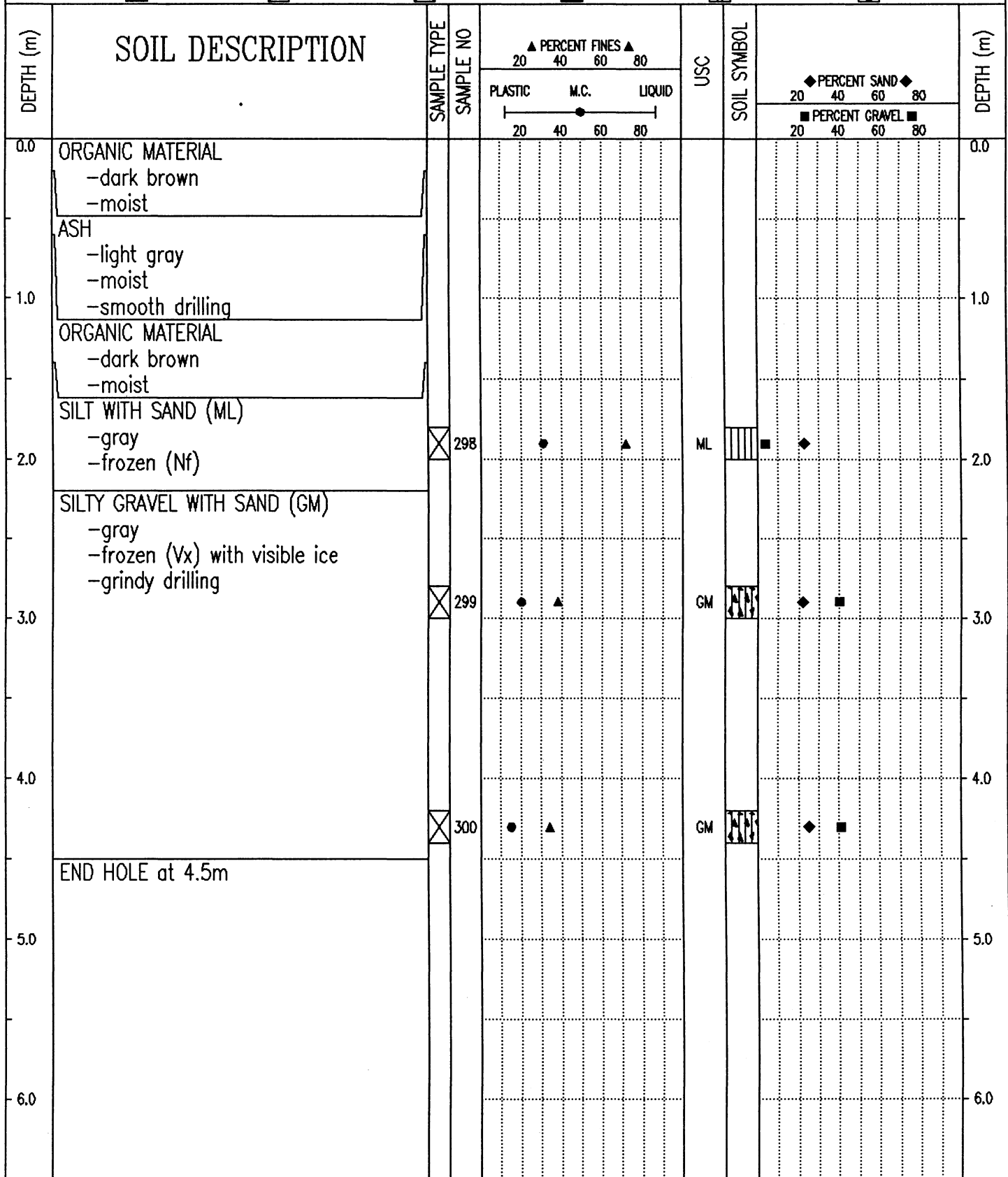
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC MATERIAL -dark brown -wet -smooth drilling										0.0
1.0	ASH -light gray -wet										1.0
2.0	ORGANIC MATERIAL -dark brown -saturated -frozen below 1.8m										2.0
3.0	SILT (ML) -gray -frozen (Nf)	<input checked="" type="checkbox"/>	301				ML				3.0
4.0	-sample #302 contaminated with organics from above	<input checked="" type="checkbox"/>	302				ML				4.0
5.0	END HOLE at 4.5m										5.0
6.0											6.0

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COMPLETION DEPTH: 4.5 m
COMPLETE: 95/05/28

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 357-124
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1829+025 o/s 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		



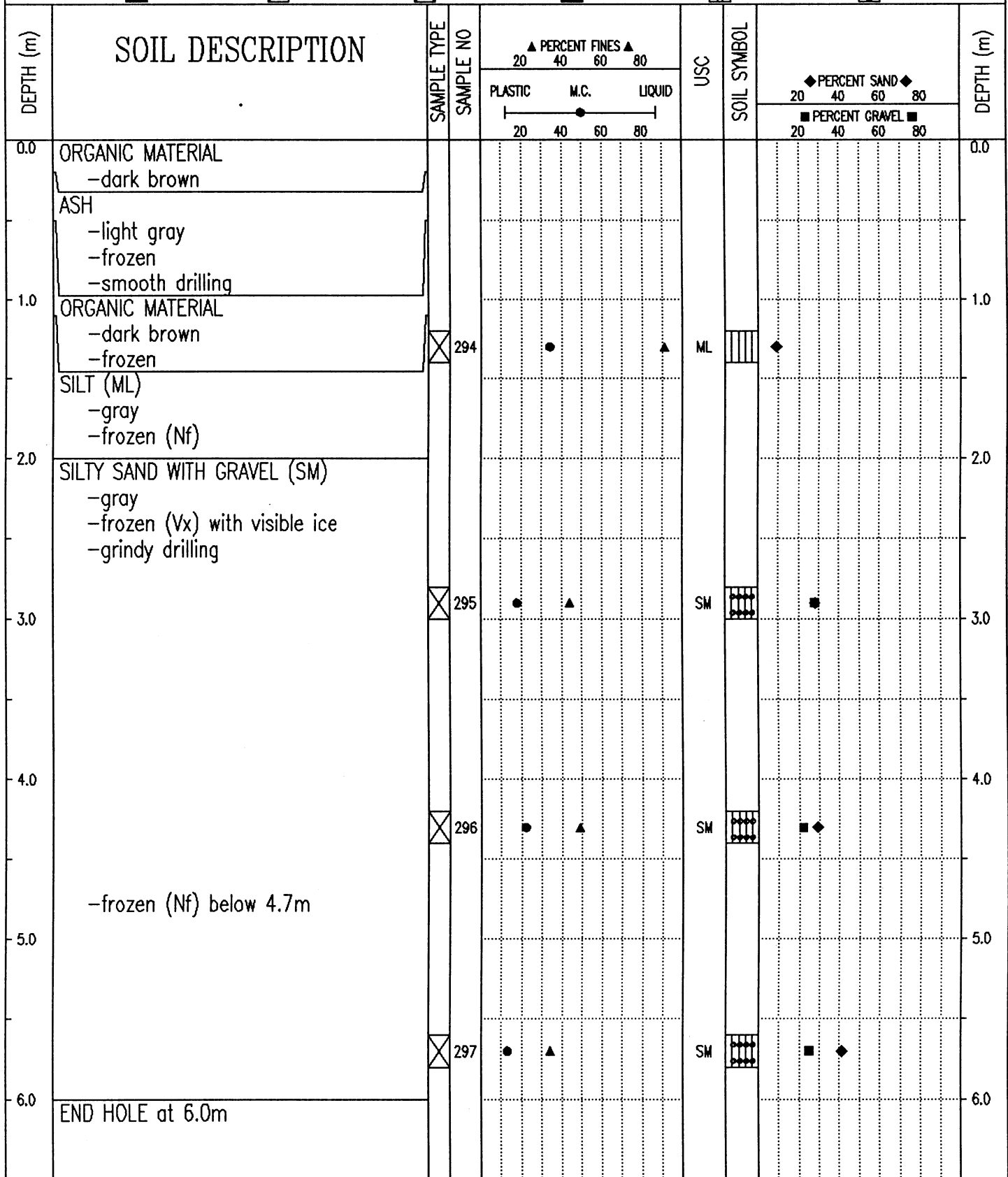
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Fig. No:

COMPLETION DEPTH: 4.5 m
COMPLETE: 95/05/28

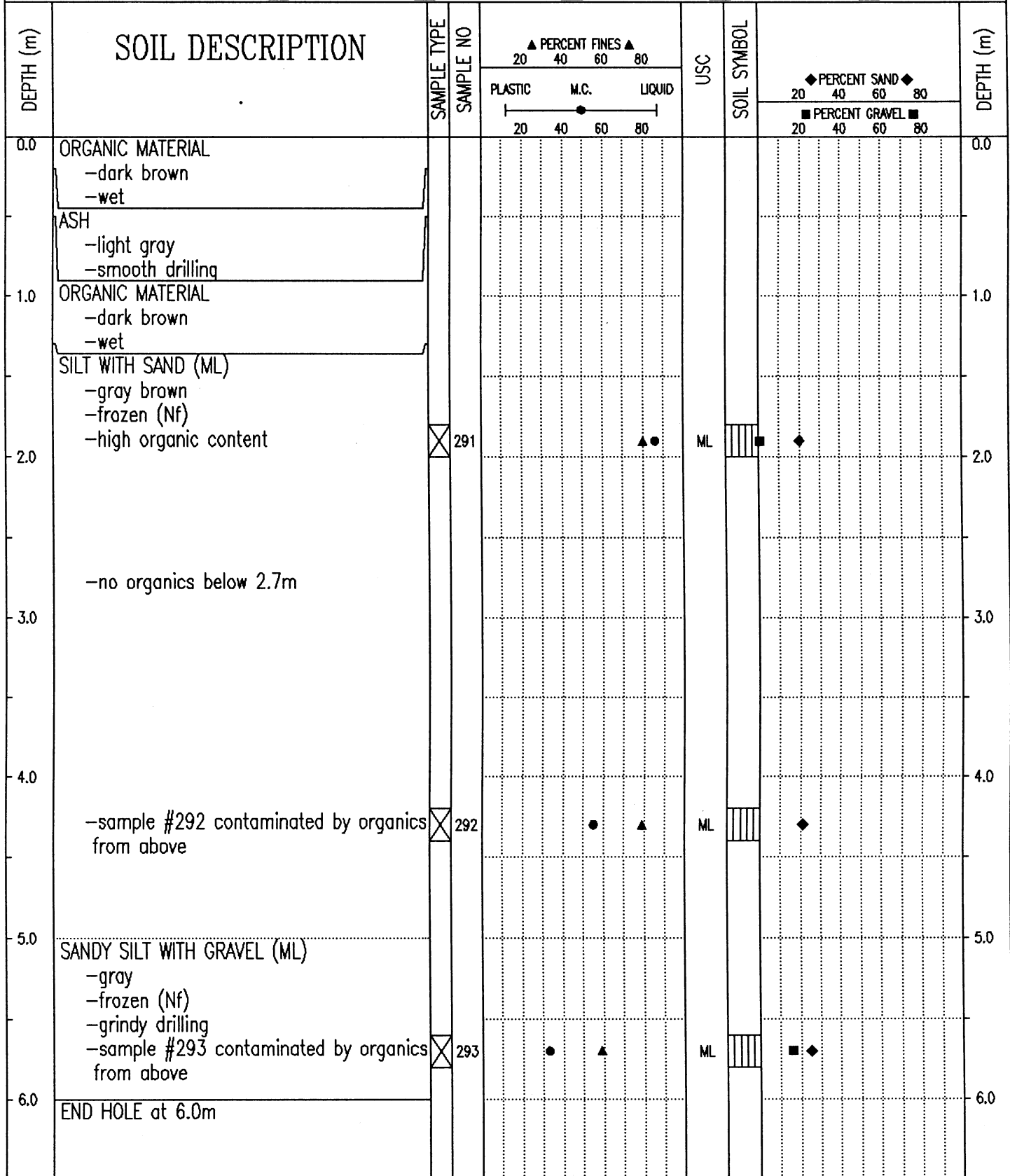
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SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT	TEST HOLE NO: 357-123
ENGINEERING-CAPITAL		SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER		LOCATION: Sta. 1829+100 o/s 15m Rt.	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> 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 AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 357-122
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1829+235 o/s 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		



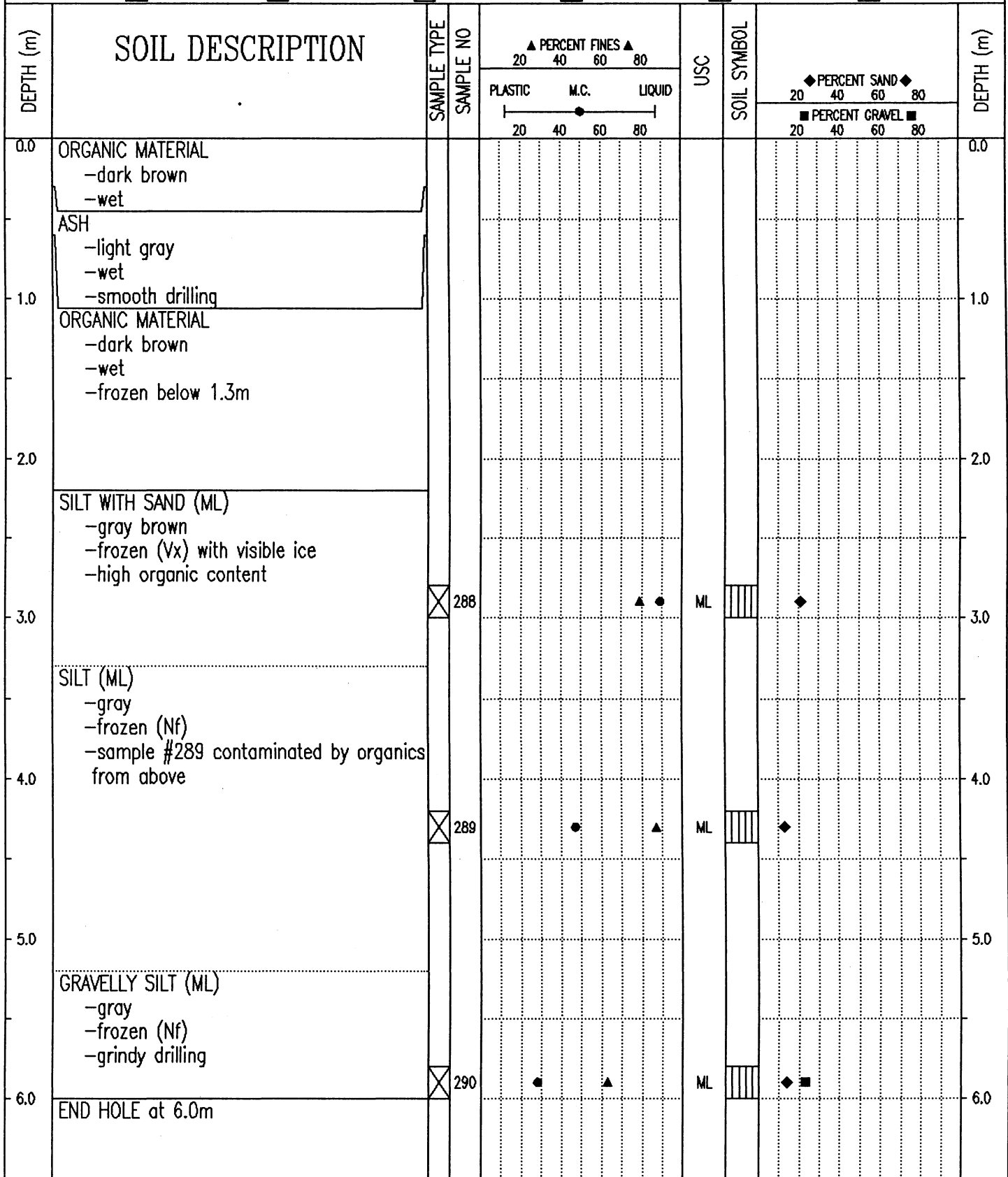
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SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC MATERIAL -saturated											0.0
	ASH -light gray -saturated											
1.0	ORGANIC MATERIAL -black -saturated -frozen (Nf) below 1.2m		226									1.0
2.0												2.0
3.0												3.0
4.0	SILT WITH SAND (ML) -black -frozen with visible ice -high organic content		227				ML					4.0
5.0	END HOLE at 4.5m											5.0
6.0												6.0

95/11/05 03:52PM

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT	TEST HOLE NO: 357-121
ENGINEERING-CAPITAL		SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER		LOCATION: Sta. 1829+375 o/s 16m 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



95/11/15 11:52AM

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 357-120
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1829+500 o/s 18m 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)
				20	40	60			80	20	40	60	
0.0	ORGANIC MATERIAL -dark brown -frozen -smooth drilling											0.0	
1.0	ASH -light gray											1.0	
2.0	ORGANIC MATERIAL -dark brown -frozen											2.0	
2.0	SILT WITH SAND (ML) -gray -frozen (Vx) with visible ice -organics -less organics below 2.3m	<input checked="" type="checkbox"/>	285				ML		◆			2.0	
3.0		<input checked="" type="checkbox"/>	286				ML		◆			3.0	
4.0	SILT (ML) -gray -frozen (Nf)											4.0	
4.0		<input checked="" type="checkbox"/>	287				ML		◆			4.0	
5.0	-grindy drilling at 4.5m END HOLE at 4.6m -refusal -rock dust on bit											5.0	
6.0												6.0	

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REVIEWED BY:	COMPLETE: 95/05/28
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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			20	40	60	
0.0	ORGANIC MATERIAL -saturated											0.0
	ASH -light gray -saturated -smooth drilling											
1.0	ORGANIC MATERIAL -dark brown -saturated											1.0
2.0	SILTY SAND WITH GRAVEL (SM) -gray -saturated											2.0
3.0	-frozen (Nf) below 2.8m	<input checked="" type="checkbox"/>	228	●	▲		SM	▨	◆			3.0
4.0	SANDY SILT WITH GRAVEL (ML) -frozen (Vx) with visible ice -grindy drilling	<input checked="" type="checkbox"/>	229	●	▲		ML	▨	◆			4.0
5.0	SILTY SAND WITH GRAVEL (SM) -gray -frozen (Nf) -harder drilling											5.0
6.0	END HOLE at 6.0m	<input checked="" type="checkbox"/>	230	●	▲		SM	▨	◆			6.0

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 357-119
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1829+600 o/s 4m Rt.	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	DEPTH (m)
				PLASTIC	M.C.	LIQUID			
				▲	◆	■			
				20 40 60 80	20 40 60 80	20 40 60 80			
0.0	ORGANIC MATERIAL -dark brown -frozen -smooth drilling -saturated below 0.5m							0.0	
2.0	SILT (ML) -gray -frozen (Nf) -denser drilling							2.0	
3.0		<input checked="" type="checkbox"/>	284	●	▲	◆	ML	3.0	
4.0	END HOLE at 4.0m -refusal							4.0	
5.0								5.0	
6.0								6.0	

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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)
				20	40	60			80	20	40	
0.0	ORGANIC MATERIAL -brown -frozen -smooth drilling											0.0
1.0	ASH -light gray -frozen											1.0
2.0	ORGANIC MATERIAL -dark brown -saturated -frozen (Vx) with visible ice below 2.4m											2.0
3.0		<input checked="" type="checkbox"/>	231									3.0
4.0												4.0
5.0	END HOLE at 4.5m											5.0
6.0												6.0

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 355-91
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1829+748 o/s 14m Lt.	ELEVATION: 0.00 (m)

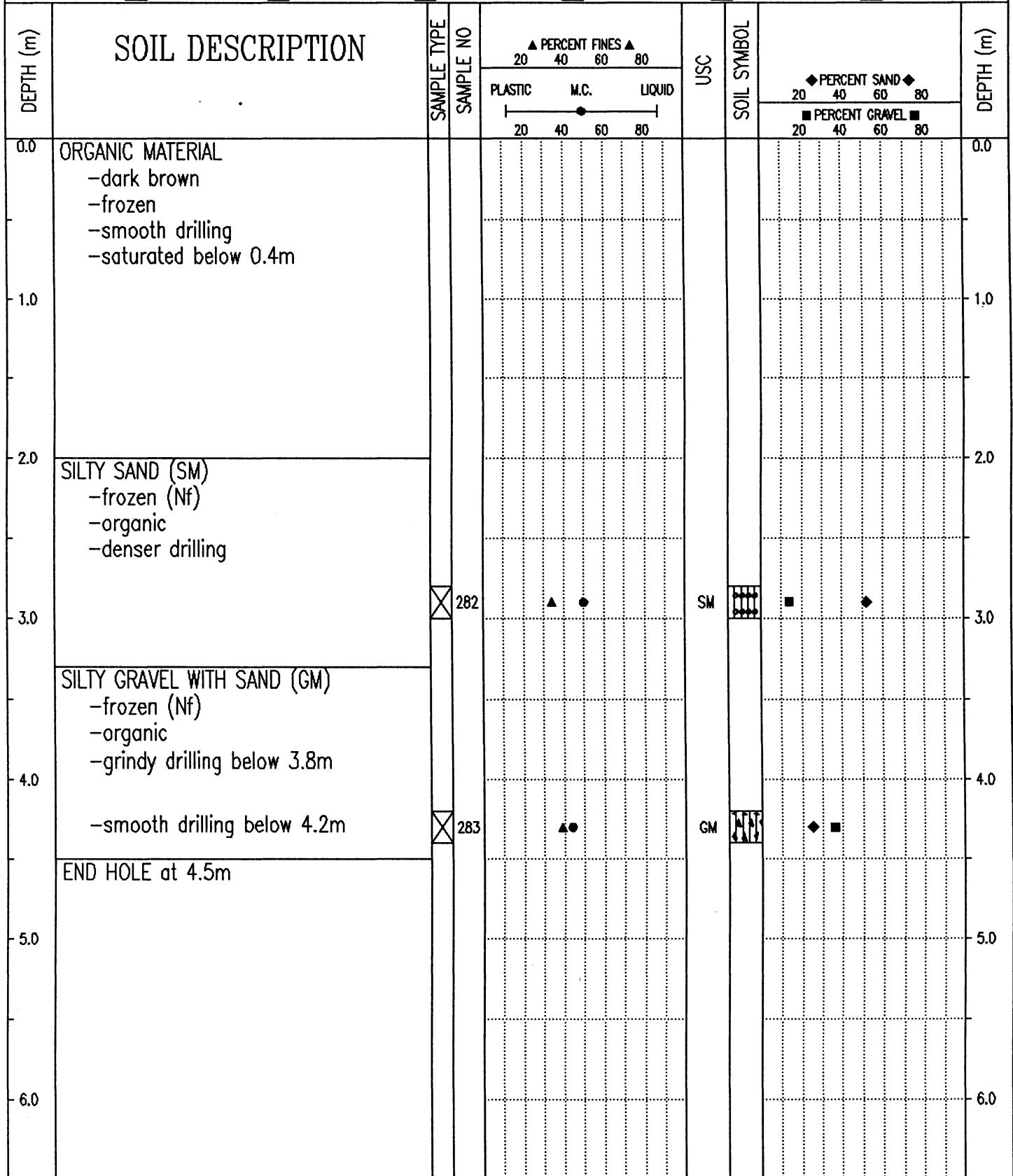
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				20	40	60			80	20		
0.0	ORGANIC MATERIAL -dark brown -wet -smooth drilling -frozen below 0.5m											0.0
1.0												1.0
2.0												2.0
3.0												3.0
4.0												4.0
5.0	SOIL AND ICE ORGANIC MATERIAL -dark brown -frozen											5.0
6.0	END HOLE at 6.0m											6.0

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REVIEWED BY:	COMPLETE: 95/05/25
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 357-118
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1829+800 o/s 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		



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Fig. No:

COMPLETION DEPTH: 4.5 m
COMPLETE: 95/05/27

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 ■			
				20 40 60 80	20 40 60 80	20 40 60 80		20 40 60 80	20 40 60 80	20 40 60 80		
0.0	ASH -light gray -saturated -smooth drilling										0.0	
1.0	ORGANIC MATERIAL -dark brown -wet										1.0	
2.0											2.0	
3.0	-frozen below 2.5m -trace of sandy silt below 2.5m										3.0	
4.0	SILTY SAND (SM) -frozen (Nf)	<input checked="" type="checkbox"/>	232				SM	■ ◆			4.0	
5.0	END HOLE at 4.5m										5.0	
6.0											6.0	

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 356-93
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1829+975	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			20	80	
0.0	ORGANIC MATERIAL -dark brown -frozen -smooth drilling										0.0
1.0	-saturated below 1.0m										1.0
2.0	-frozen below 2.0m										2.0
3.0											3.0
4.0											4.0
5.0											5.0
6.0	SANDY SILT (ML) -frozen (Nf) -organics -harder drilling END HOLE at 6.0m	<input checked="" type="checkbox"/>	374				ML				6.0

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Fig. No:

COMPLETION DEPTH: 6.0 m
COMPLETE: 95/05/25

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT		TEST HOLE NO: 357-117									
ENGINEERING-CAPITAL		SEGMENT 14		Project No: 092-202101-0314									
DRILL: 150mm SOLID STEM AUGER		LOCATION: Sta. 1830+010 o/s 20m Rt.		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 ■				
				20	40	60	80		20	40	60	80	
				20	40	60	80		20	40	60	80	
0.0	ORGANIC MATERIAL -dark brown -frozen -smooth drilling												0.0
1.0	ASH -light gray -frozen												1.0
2.0	POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM) -gray -frozen (Vx) with visible ice -grindy drilling	⊗	279	▲	●			SP-SM	◆	■			2.0
3.0	WELL-GRADED GRAVEL WITH SILT AND SAND (GW-GM) -gray -frozen (Nf)	⊗	280	▲	●			GW-GM	◆	■			3.0
4.0	ORGANIC MATERIAL -dark brown -frozen												4.0
5.0	SILTY SAND WITH GRAVEL (SM) -gray -frozen (Nf)	⊗	281		●			SM	◆	■			5.0
6.0	END HOLE at 4.5m -boulders to 1500mm on surface												6.0

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Fig. No:

COMPLETION DEPTH: 4.5 m
COMPLETE: 95/05/27

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			20	40	60	
0.0	ORGANIC MATERIAL -dark brown -frozen -smooth drilling											0.0
1.0	ASH -light gray -frozen											1.0
2.0	ORGANIC MATERIAL -dark brown -saturated											2.0
3.0	ICE											3.0
3.0	ORGANIC MATERIAL -dark brown -frozen (Vx) with visible ice -trace of silt -denser drilling -some silt below 3.7m	<input checked="" type="checkbox"/>	234				●					3.0
4.0												4.0
4.0		<input checked="" type="checkbox"/>	235				●					4.0
5.0	END HOLE at 4.5m											5.0
6.0												6.0

SUBSURFACE EXPLORATION AND TEST REPORT SHAKWAK PROJECT TEST HOLE NO: 357-116

ENGINEERING-CAPITAL SEGMENT 14 Project No: 092-202101-0314

DRILL: 150mm SOLID STEM AUGER LOCATION: Sta. 1830+150 o/s 8m Rt. 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			20	40	
0.0	ORGANIC MATERIAL -black -wet -smooth drilling										0.0
1.0											1.0
2.0											2.0
3.0	-frozen below 2.8m -denser drilling below 2.8m										3.0
4.0	SILTY ORGANIC MATERIAL -frozen (Nf)										4.0
4.5	END HOLE at 4.5m	<input checked="" type="checkbox"/>	278								4.5
5.0											5.0
6.0											6.0

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Fig. No:

COMPLETION DEPTH: 4.5 m
COMPLETE: 95/05/27

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT	TEST HOLE NO: 356-95
ENGINEERING-CAPITAL		SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER		LOCATION: Sta. 1830+215 o/s 15m 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 MATERIAL -dark brown -wet -smooth drilling										0.0
1.0	ASH -light gray -frozen										1.0
2.0	ORGANIC MATERIAL -black -saturated -some sand from 1.8m to 2.0m										2.0
3.0	-frozen below 2.8m -denser drilling below 2.8m										3.0
4.0	POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM) -frozen (Vx) with visible ice -harder drilling	<input checked="" type="checkbox"/>	236	●			SP-SM	○○○○	■	◆	4.0
5.0	ORGANIC MATERIAL -black -frozen (Vx) with visible ice -trace of silt										5.0
6.0	END HOLE at 6.0m	<input checked="" type="checkbox"/>	237			●					6.0

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	REVIEWED BY:	COMPLETE: 95/05/26
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 356-96
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1830+332 o/s 16m Lt.	ELEVATION: 0.00 (m)

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

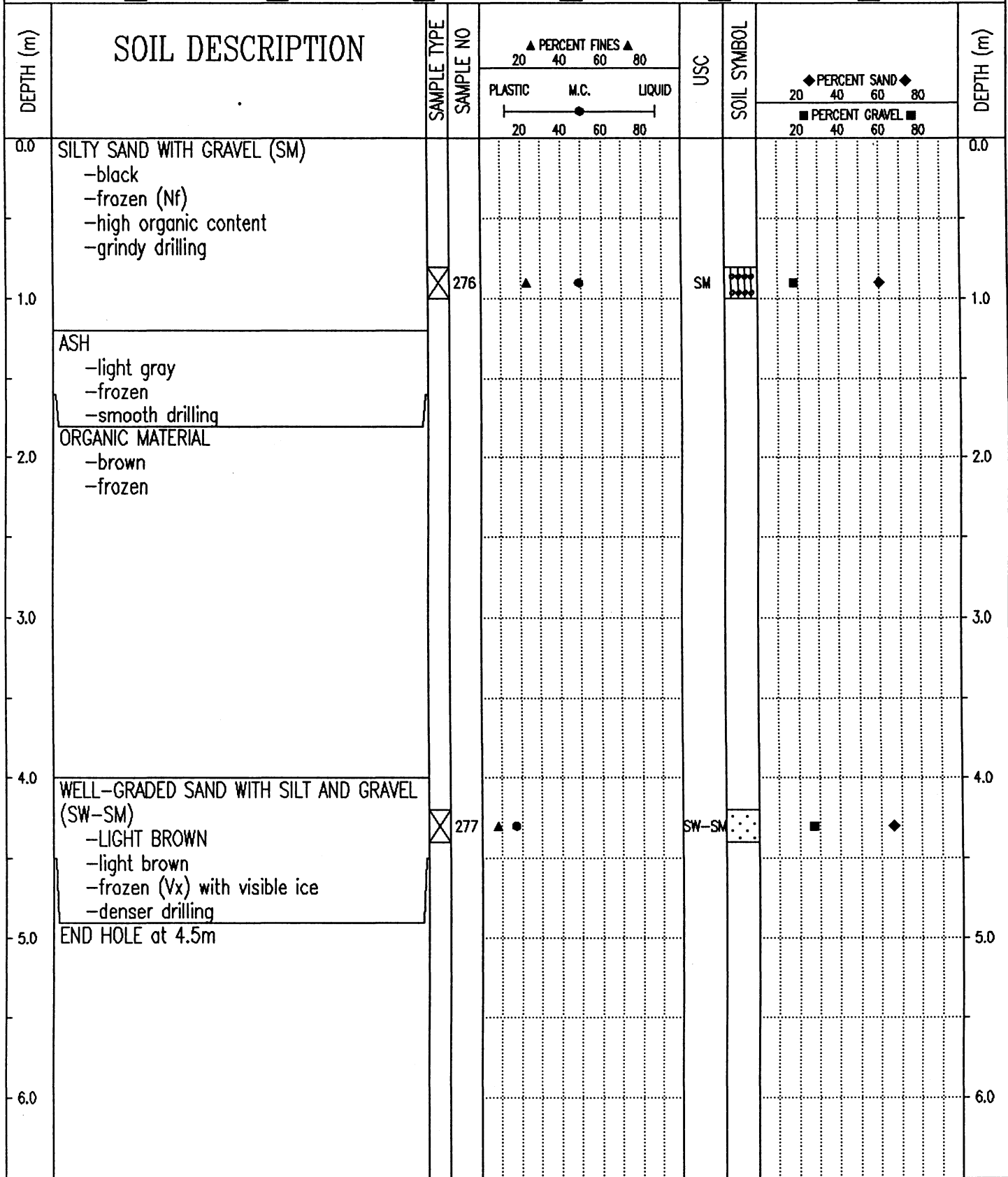
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				20	40	60			80	20		
0.0	ORGANIC MATERIAL -saturated											0.0
	ASH -light gray -saturated -smooth drilling											
1.0	ORGANIC MATERIAL -dark brown -saturated											1.0
2.0	-black below 1.7m -frozen (Nf) below 1.7m -trace of silt below 1.7m											2.0
3.0			238									3.0
	SILTY SAND WITH GRAVEL -frozen											
4.0	ORGANIC MATERIAL -black -frozen											4.0
	SILTY SAND (SM) -frozen (Vx) with visible ice		239				SM					
5.0	ORGANIC MATERIAL -black -frozen											5.0
6.0	END HOLE at 6.0m											6.0

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Fig. No:

COMPLETION DEPTH: 6.0 m
COMPLETE: 95/05/26

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 357-115
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1830+380 o/s 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		



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COMPLETION DEPTH: 4.5 m
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SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT		TEST HOLE NO: 356-97								
ENGINEERING-CAPITAL		SEGMENT 14		Project No: 092-202101-0314								
DRILL: 150mm SOLID STEM AUGER		LOCATION: Sta. 1830+425 o/s 15m 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 MATERIAL -dark brown -frozen -smooth drilling -saturated below 0.4m										0.0	
1.0											1.0	
2.0	-trace of silt below 1.5m										2.0	
3.0											3.0	
4.0	-frozen below 3.5m -denser drilling below 3.5m										4.0	
4.0	SILTY SAND WITH GRAVEL (SM) -frozen (Nf) -grindy drilling	⊗	240				SM	■	◆		4.0	
5.0											5.0	
5.0	SILTY SAND (SM) -frozen (Nf) -grindy drilling										5.0	
6.0											6.0	
6.0	END HOLE at 6.0m -boulders to 1500mm on surface	⊗	241				SM	■	◆		6.0	

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Fig. No:

COMPLETION DEPTH: 6.0 m
COMPLETE: 95/05/26

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			20	40	
0.0	ORGANIC MATERIAL -dark brown -saturated -smooth drilling										0.0
1.0	ASH -light gray -saturated										1.0
2.0	ORGANIC MATERIAL -black -saturated										2.0
3.0	-frozen below 2.8m -denser drilling below 2.8m										3.0
4.0	SILTY SAND -frozen -grindy drilling										4.0
4.0	SILTY SAND WITH GRAVEL (SM) -frozen (Nf) -organics -smooth drilling	<input checked="" type="checkbox"/>	275	▲		●	SM	◆	■		4.0
5.0	END HOLE at 4.5m										5.0
6.0											6.0

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 357-113
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1830+525 o/s 15m Rt.	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		PERCENT GRAVEL		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	80	
0.0	ORGANIC MATERIAL -black -frozen -smooth drilling											0.0	
1.0	ASH -light gray -frozen											1.0	
2.0	ORGANIC MATERIAL -black -frozen with visible ice -smelly -pieces of wood augered up											2.0	
3.0												3.0	
4.0												4.0	
5.0	END HOLE at 4.5m											5.0	
6.0												6.0	

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Fig. No:

COMPLETION DEPTH: 4.5 m
COMPLETE: 95/05/27

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT	TEST HOLE NO: 356-98
ENGINEERING-CAPITAL		SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER		LOCATION: Sta. 1830+525 o/s 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			

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				20	40	60			80	20		
0.0	ORGANIC MATERIAL -dark brown -saturated -smooth drilling											0.0
1.0	ASH -light gray -frozen											1.0
2.0	ORGANIC MATERIAL -black -frozen -trace of silt -denser drilling											2.0
3.0	-visible ice below 3.1m											3.0
4.0												4.0
5.0	END HOLE at 4.5m -boulders to 1000mm on surface											5.0
6.0												6.0

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	REVIEWED BY:	COMPLETE: 95/05/26
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 356-99
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1830+625 o/s 12m Lt.	ELEVATION: 0.00 (m)

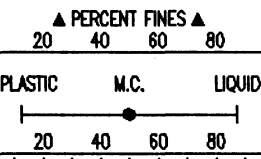
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE

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 MATERIAL -black -saturated -smooth drilling									0.0	
1.0										1.0	
2.0										2.0	
3.0	-frozen (Nf) below 2.8m -denser drilling below 2.8m									3.0	
4.0										4.0	
4.5	END HOLE at 4.5m -boulders to 2000mm on surface	<input checked="" type="checkbox"/>	242							4.5	
5.0										5.0	
6.0										6.0	

Government of Yukon Transportation Engineering	LOGGED BY: CC	COMPLETION DEPTH: 4.5 m
	REVIEWED BY:	COMPLETE: 95/05/26
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT		TEST HOLE NO: 356-100								
ENGINEERING-CAPITAL		SEGMENT 14		Project No: 092-202101-0314								
DRILL: 150mm SOLID STEM AUGER		LOCATION: Sta. 1830+725 o/s 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 MATERIAL -black -frozen -smooth drilling											0.0
1.0	-saturated below 1.0m											1.0
2.0	-frozen below 1.4m -denser drilling below 1.4m											2.0
3.0	-frozen (Vx) with visible ice below 2.2m -trace of silt 2.2m to 3.5m											3.0
4.0												4.0
5.0												5.0
6.0	END HOLE at 6.0m -boulders to 1000mm on surface											6.0

243

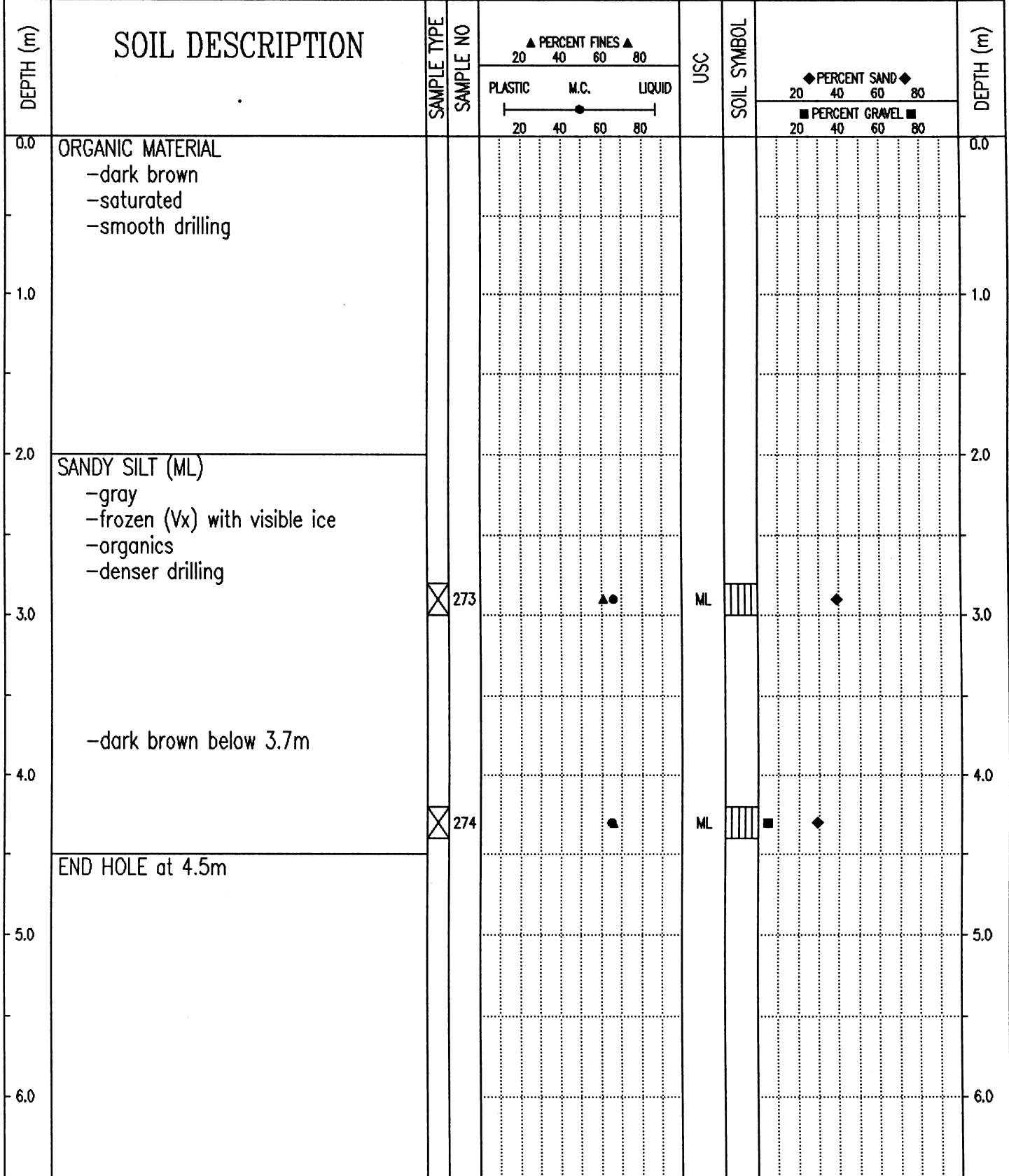


SUBSURFACE EXPLORATION AND TEST REPORT SHAKWAK PROJECT TEST HOLE NO: 357-112

ENGINEERING-CAPITAL SEGMENT 14 Project No: 092-202101-0314

DRILL: 150mm SOLID STEM AUGER LOCATION: Sta. 1830+725 o/s 14m Rt. ELEVATION: 0.00 (m)

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

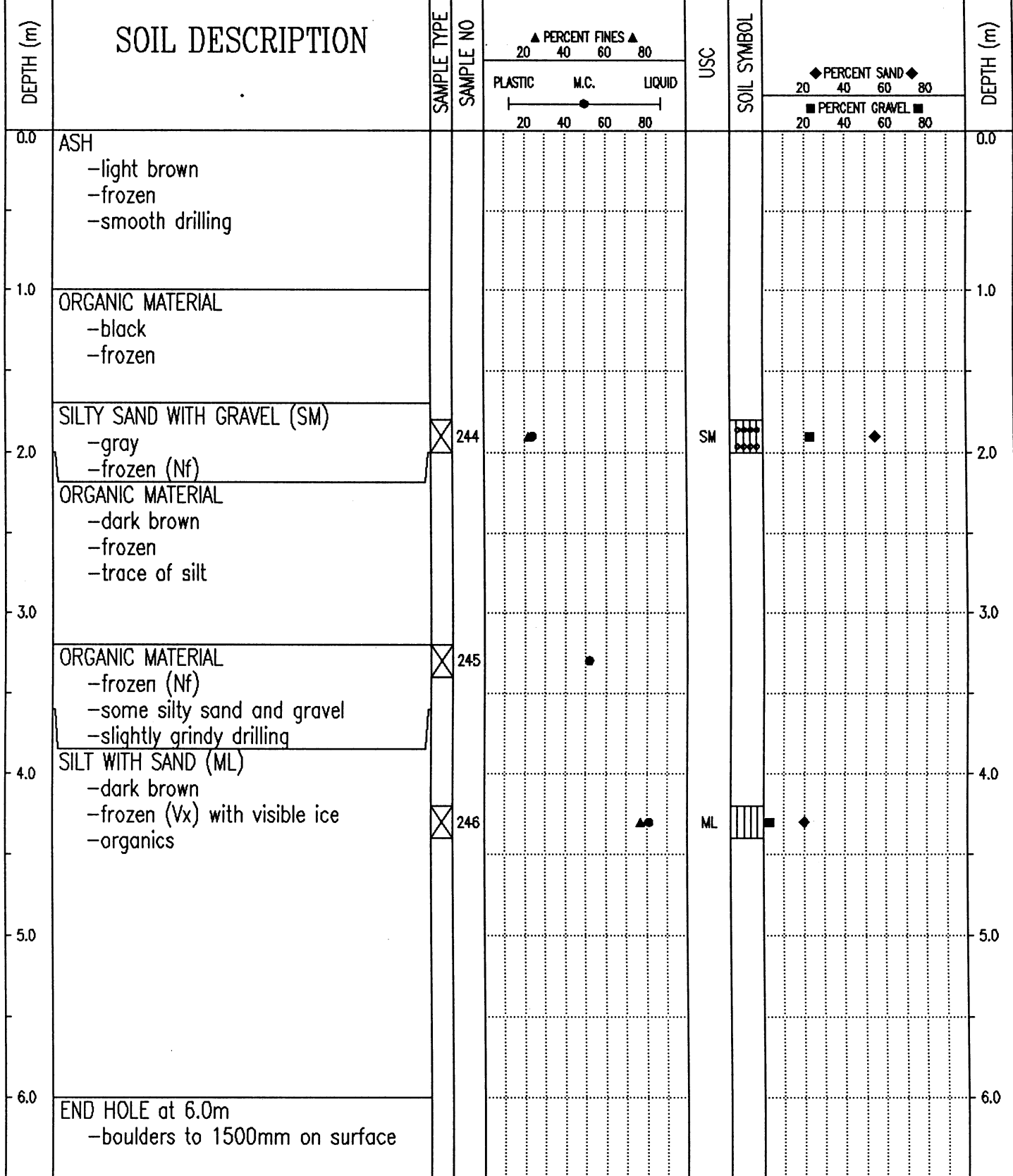


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Transportation Engineering

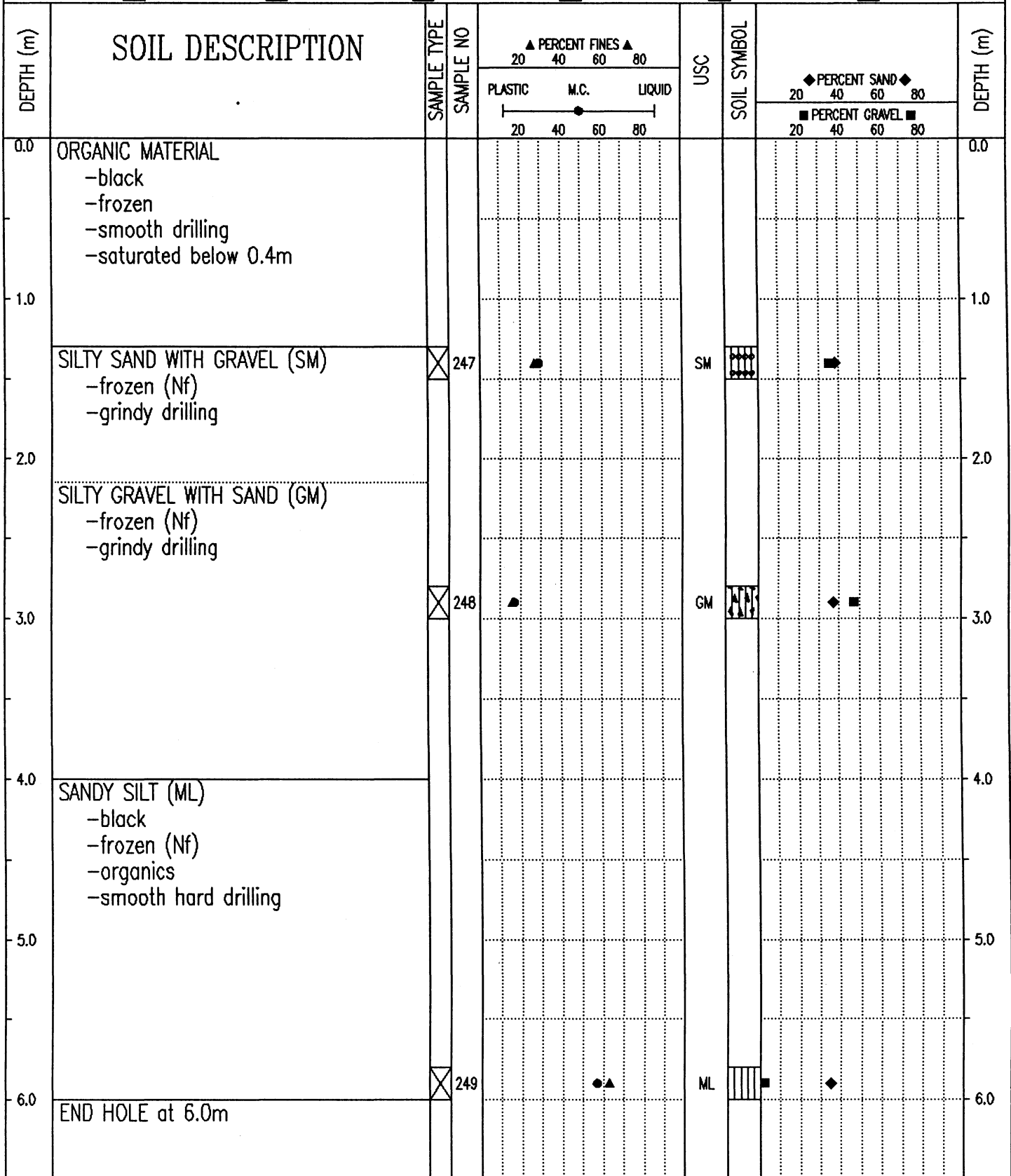
LOGGED BY: CC
REVIEWED BY:
Fig. No:

COMPLETION DEPTH: 4.5 m
COMPLETE: 95/05/27

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



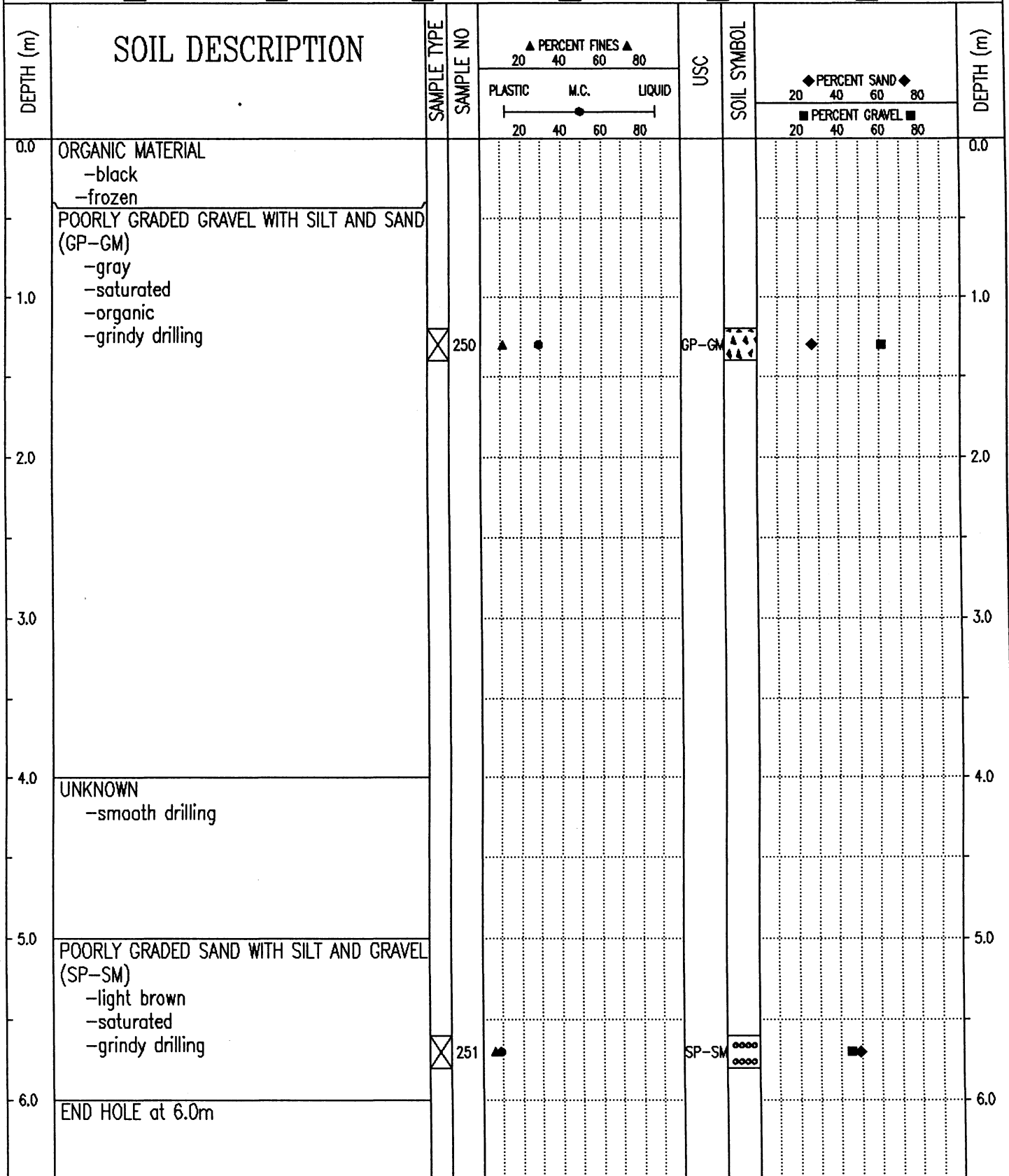
SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT	TEST HOLE NO: 356-102
ENGINEERING-CAPITAL		SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER		LOCATION: Sta. 1830+825 o/s 5m Lt.	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
			<input type="checkbox"/> BULK
			<input type="checkbox"/> TUBE
			<input type="checkbox"/> CORE



Government of Yukon
Transportation Engineering

LOGGED BY: CC	COMPLETION DEPTH: 6.0 m
REVIEWED BY:	COMPLETE: 95/05/26
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 356-103
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1830+958 o/s 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		



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Transportation Engineering

LOGGED BY: CC
REVIEWED BY:
Fig. No:

COMPLETION DEPTH: 6.0 m
COMPLETE: 95/05/26

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 357-111
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1830+970 o/s 10m 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 MATERIAL -dark brown -saturated -smooth drilling											0.0
1.0												1.0
2.0	SILTY GRAVEL WITH SAND (GM) -frozen (Nf) -grindy drilling -first refusal at 1.5m											2.0
3.0		<input checked="" type="checkbox"/>	271	▲	●		GM	◆	■			3.0
4.0	SANDY SILT -frozen (Nf) -trace of gravel											4.0
5.0		<input checked="" type="checkbox"/>	272	●								5.0
6.0	END HOLE at 4.5m											6.0

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LOGGED BY: CC
REVIEWED BY:
Fig. No:

COMPLETION DEPTH: 4.5 m
COMPLETE: 95/05/27

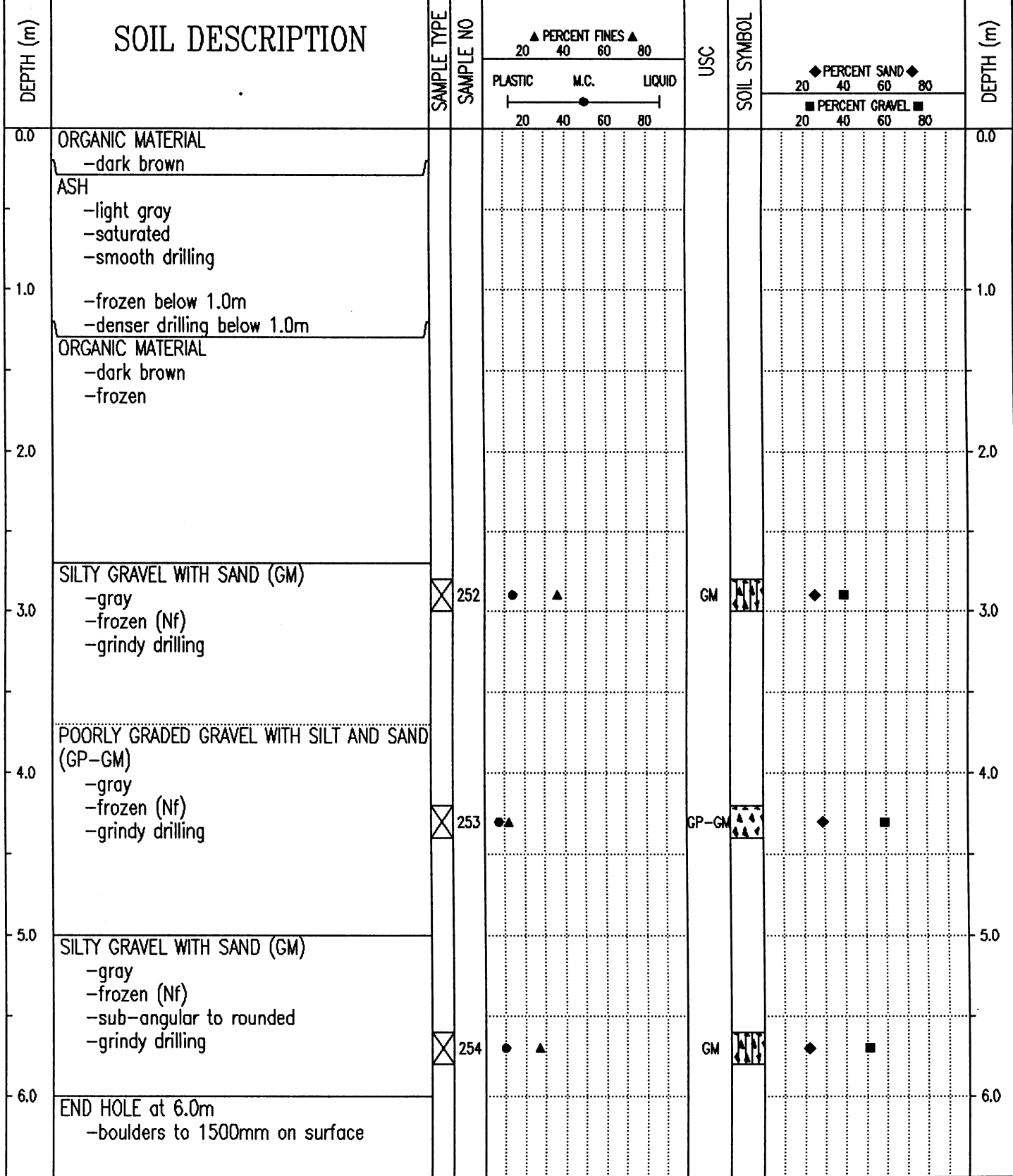
SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 357-110
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1831+010 o/s 16m Rt.	ELEVATION: 0.00 (m)

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			20	80	
0.0	ORGANIC MATERIAL -dark brown -moist -smooth drilling									0.0	
1.0	ASH -light gray -frozen									1.0	
2.0	ORGANIC MATERIAL -dark brown -frozen -first refusal at 1.0m	<input checked="" type="checkbox"/>	270	20	40	60	SM	◆	◆	2.0	
2.4	SILTY SAND (SM) -frozen -grindy drilling -second refusal at 1.2m										
3.0	END HOLE at 2.4m -refusal -rock dust on bit									3.0	
4.0										4.0	
5.0										5.0	
6.0										6.0	

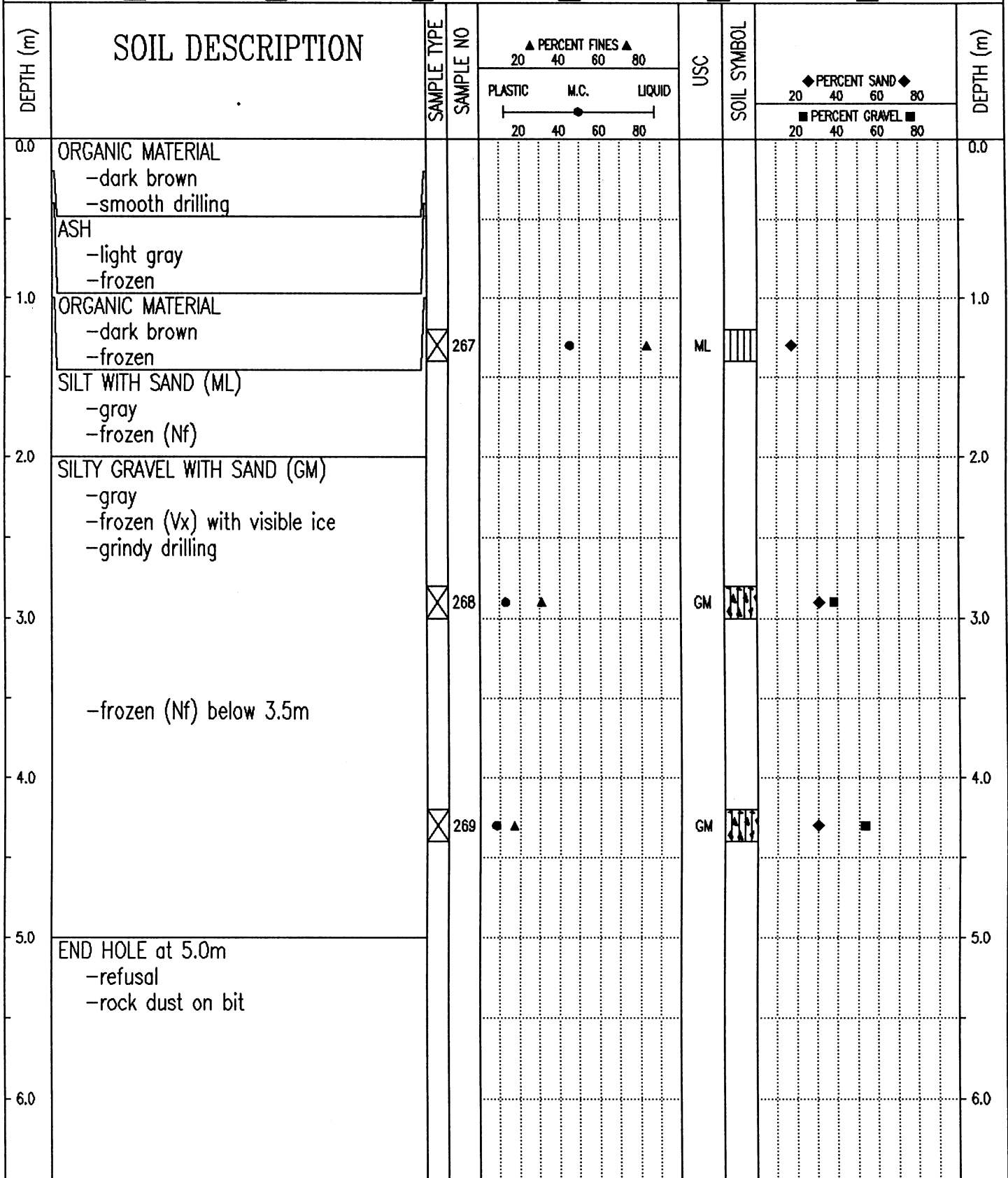
Government of Yukon Transportation Engineering	LOGGED BY: CC	COMPLETION DEPTH: 2.4 m
	REVIEWED BY:	COMPLETE: 95/05/27
	Fig. No:	Page 1 of 1

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



95/11/14 12:25PM

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 357-109
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1831+165 o/s 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		



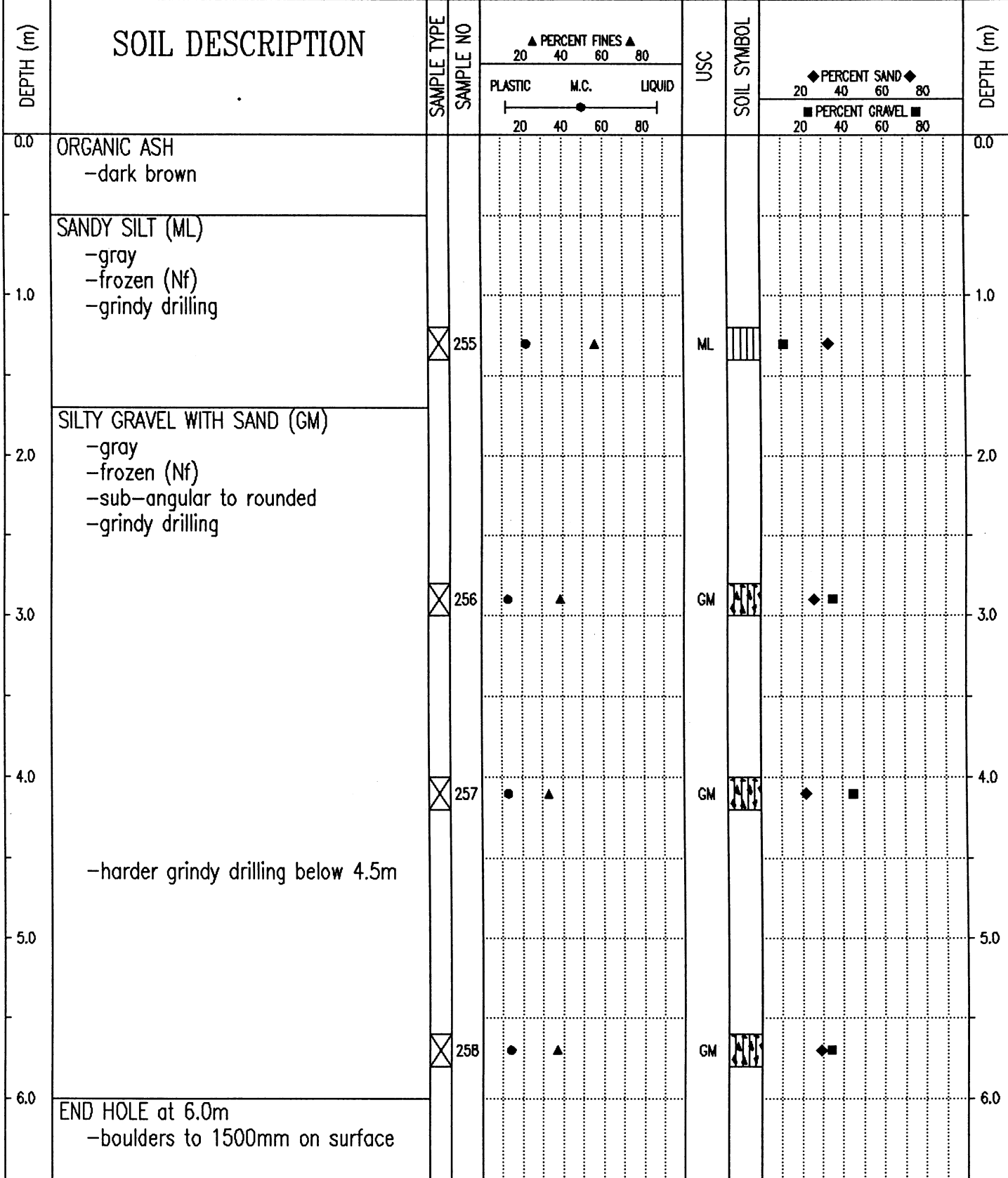
Government of Yukon
Transportation Engineering

LOGGED BY: CC
REVIEWED BY:
Fig. No:

COMPLETION DEPTH: 5.0 m
COMPLETE: 95/05/27
Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 357-105
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: 150mm SOLID STEM AUGER	LOCATION: Sta. 1831+306 o/s 15m Lt.	ELEVATION: 0.00 (m)

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



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LOGGED BY: CC
REVIEWED BY:
Fig. No:

COMPLETION DEPTH: 6.0 m
COMPLETE: 95/05/26

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 353-27
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1822+735 O/S 8M LT
 LOGGED BY: KJ DATE COMPLETED: 95.05.12

FIELD NO: 90
 LAB NO: 168
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 91
 LAB NO: 169
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 92
 LAB NO: 170
 DEPTH: 4.3-4.5
 TYPE: AUGER

FIELD NO: 93
 LAB NO: 171
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	94
12.5	82
10.0	76
5.0	66
2.5	56
2.0	--
1.25	48
0.840	--
0.630	38
0.420	--
0.315	22
0.160	11
0.150	--
0.080	7

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	97
0.160	95
0.150	--
0.080	89

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	100
0.420	--
0.315	72
0.160	31
0.150	--
0.080	12

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	95
0.160	86
0.150	--
0.080	64

M.C. (%): 3

M.C. (%): 36

M.C. (%): 5

M.C. (%): 23

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 34
 % SAND: 59
 % FINES: 7

% GRAVEL: 0
 % SAND: 11
 % FINES: 89

% GRAVEL: 0
 % SAND: 88
 % FINES: 12

% GRAVEL: 0
 % SAND: 36
 % FINES: 64

CLASSIFICATION:
 POORLY GRADED
 SAND WITH SILT &
 GRAVEL (SP-SM)

CLASSIFICATION:
 SILT (ML)

CLASSIFICATION:
 POORLY GRADED
 SAND WITH SILT
 (SP-SM)

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 353-27
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1822+735 O/S 8M LT
 LOGGED BY: KJ DATE COMPLETED: 95.05.12

FIELD NO: 94
 LAB NO: 172
 DEPTH: 6.8-7.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	73
31.5	--
25.0	54
20.0	51
12.5	50
10.0	48
5.0	46
2.5	45
2.0	--
1.25	44
0.840	--
0.630	42
0.420	--
0.315	34
0.160	24
0.150	--
0.080	18

M.C. (%): 7

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 54
 % SAND: 28
 % FINES: 18

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 353-28
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1822+825 O/S 14M LT
 LOGGED BY: KJ DATE COMPLETED: 95.05.14

FIELD NO: 95
 LAB NO: 173
 DEPTH: 1.0-1.2
 TYPE: AUGER
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	100
0.420	--
0.315	99
0.160	97
0.150	--
0.080	91

M.C. (%): 35

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 9
 % FINES: 91

CLASSIFICATION:
 SILT (ML)

FIELD NO: 96
 LAB NO: 174
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	100
0.420	--
0.315	98
0.160	68
0.150	--
0.080	43

M.C. (%): 25

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 57
 % FINES: 43

CLASSIFICATION:
 SILTY SAND (SM)

FIELD NO: 97
 LAB NO: 175
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	100
0.840	--
0.630	97
0.420	--
0.315	79
0.160	44
0.150	--
0.080	25

M.C. (%): 16

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 75
 % FINES: 25

CLASSIFICATION:
 SILTY SAND (SM)

FIELD NO: 98
 LAB NO: 176
 DEPTH: 5.6-5.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	69
20.0	67
12.5	64
10.0	63
5.0	60
2.5	57
2.0	--
1.25	55
0.840	--
0.630	53
0.420	--
0.315	49
0.160	43
0.150	--
0.080	37

M.C. (%): 19

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 40
 % SAND: 23
 % FINES: 37

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 353-29
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1822+925 O/S 10M RT
 LOGGED BY: KJ DATE COMPLETED: 95.05.14

FIELD NO: 99
 LAB NO: 177
 DEPTH: 1.3-1.5
 TYPE: AUGER
 ORGANIC

FIELD NO: 100
 LAB NO: 178
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	100
0.420	--
0.315	99
0.160	97
0.150	--
0.080	92

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	100
0.840	--
0.630	98
0.420	--
0.315	83
0.160	40
0.150	--
0.080	20

M.C. (%): 95

M.C. (%): 20

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 8
 % FINES: 92

% GRAVEL: 0
 % SAND: 80
 % FINES: 20

CLASSIFICATION:
 SILT (ML)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 353-30
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1822+950 O/S 10M LT
 LOGGED BY: KJ DATE COMPLETED: 95.05.14

FIELD NO: 101
 LAB NO: 179
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	100
0.840	--
0.630	98
0.420	--
0.315	79
0.160	32
0.150	--
0.080	18

M.C. (%): 19

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 82
 % FINES: 18

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 353-31
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1823+053
 LOGGED BY: KJ DATE COMPLETED: 95.05.14

FIELD NO: 102
 LAB NO: 180
 DEPTH: 2.8-3.0
 TYPE: AUGER
 ORGANIC

FIELD NO: 103
 LAB NO: 181
 DEPTH: 8.8-9.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	98
0.840	--
0.630	94
0.420	--
0.315	90
0.160	83
0.150	--
0.080	75

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	88
20.0	83
12.5	75
10.0	69
5.0	61
2.5	55
2.0	--
1.25	50
0.840	--
0.630	47
0.420	--
0.315	42
0.160	35
0.150	--
0.080	28

M.C. (%): 206

M.C. (%): 11

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 25
 % FINES: 75

% GRAVEL: 39
 % SAND: 33
 % FINES: 28

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 353-32
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1823+145 O/S 5M LT
 LOGGED BY: KJ DATE COMPLETED: 95.05.14

FIELD NO: 104
 LAB NO: 182
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	100
0.420	--
0.315	99
0.160	98
0.150	--
0.080	92

M.C. (%): 59

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 8
 % FINES: 92

CLASSIFICATION:
 SILT (ML)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 353-33
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1823+270 O/S 13M LT
 LOGGED BY: KJ DATE COMPLETED: 95.05.14

FIELD NO: 105
 LAB NO: 183
 DEPTH: 5.8-6.0
 TYPE: AUGER
 SPILLED

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%): 28

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 353-34
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1823+275 O/S 13M RT
 LOGGED BY: KJ DATE COMPLETED: 95.05.14

FIELD NO: 106
 LAB NO: 184
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	94
0.420	--
0.315	77
0.160	34
0.150	--
0.080	6

M.C. (%): 25

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 94
 % FINES: 6

CLASSIFICATION:
 POORLY GRADED
 SAND WITH SILT
 (SP-SM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 353-35
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1823+390 O/S 3M LT
 LOGGED BY: KJ DATE COMPLETED: 95.05.14

FIELD NO: 107
 LAB NO: 185
 DEPTH: 4.3-4.5
 TYPE: AUGER

FIELD NO: 108
 LAB NO: 186
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	87
0.160	54
0.150	--
0.080	34

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	86
0.160	41
0.150	--
0.080	22

M.C. (%): 21

M.C. (%): 20

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 66
 % FINES: 34

% GRAVEL: 0
 % SAND: 78
 % FINES: 22

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 353-36
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1823+500 O/S 12M LT
 LOGGED BY: KJ DATE COMPLETED: 95.05.15

FIELD NO: 109
 LAB NO: 187
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	72
0.160	39
0.150	--
0.080	23

M.C. (%): 21

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 77
 % FINES: 23

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 353-37
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1823+600 O/S 25M LT
 LOGGED BY: KJ DATE COMPLETED: 95.05.15

FIELD NO: 110
 LAB NO: 188
 DEPTH: 1.2-1.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	87
12.5	78
10.0	70
5.0	56
2.5	44
2.0	--
1.25	36
0.840	--
0.630	30
0.420	--
0.315	22
0.160	13
0.150	--
0.080	9

M.C. (%): 13

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 44
 % SAND: 46
 % FINES: 9

CLASSIFICATION:
 POORLY GRADED
 SAND WITH SILT &
 GRAVEL (SP-SM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 353-38
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1823+712 O/S 20M LT
 LOGGED BY: KJ DATE COMPLETED: 95.05.15

FIELD NO: 111
 LAB NO: 189
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 112
 LAB NO: 190
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	70
20.0	66
12.5	58
10.0	54
5.0	48
2.5	42
2.0	--
1.25	38
0.840	--
0.630	35
0.420	--
0.315	30
0.160	18
0.150	--
0.080	10

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	90
20.0	90
12.5	90
10.0	89
5.0	88
2.5	87
2.0	--
1.25	86
0.840	--
0.630	83
0.420	--
0.315	64
0.160	23
0.150	--
0.080	8

M.C. (%): 11

M.C. (%): 16

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 52
 % SAND: 38
 % FINES: 10

% GRAVEL: 12
 % SAND: 80
 % FINES: 8

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:
 POORLY GRADED
 SAND WITH SILT
 (SP-SM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 353-39
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1823+850 O/S 12M LT
 LOGGED BY: KJ DATE COMPLETED: 95.05.15

FIELD NO: 113
 LAB NO: 191
 DEPTH: 1.2-1.4
 TYPE: AUGER
 ORGANIC

FIELD NO: 114
 LAB NO: 192
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 115
 LAB NO: 193
 DEPTH: 4.3-4.5
 TYPE: AUGER

FIELD NO: 116
 LAB NO: 194
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	97
0.840	--
0.630	92
0.420	--
0.315	87
0.160	78
0.150	--
0.080	72

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	94
0.160	60
0.150	--
0.080	32

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	84
0.160	56
0.150	--
0.080	39

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	92
10.0	89
5.0	81
2.5	76
2.0	--
1.25	73
0.840	--
0.630	69
0.420	--
0.315	52
0.160	25
0.150	--
0.080	15

M.C. (%): 164

M.C. (%): 25

M.C. (%): 47

M.C. (%): 14

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 28
 % FINES: 72

% GRAVEL: 0
 % SAND: 68
 % FINES: 32

% GRAVEL: 0
 % SAND: 61
 % FINES: 39

% GRAVEL: 19
 % SAND: 66
 % FINES: 15

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 353-40
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1823+975 O/S 10M LT
 LOGGED BY: KJ DATE COMPLETED: 95.05.15

FIELD NO: 117
 LAB NO: 195
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 118
 LAB NO: 196
 DEPTH: 4.3-4.5
 TYPE: AUGER

FIELD NO: 119
 LAB NO: 197
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	100
0.420	--
0.315	99
0.160	96
0.150	--
0.080	80

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	98
0.420	--
0.315	68
0.160	33
0.150	--
0.080	19

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	95
10.0	92
5.0	82
2.5	77
2.0	--
1.25	75
0.840	--
0.630	72
0.420	--
0.315	57
0.160	32
0.150	--
0.080	19

M.C. (%): 53

M.C. (%): 16

M.C. (%): 15

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 20
 % FINES: 80

% GRAVEL: 0
 % SAND: 81
 % FINES: 19

% GRAVEL: 18
 % SAND: 63
 % FINES: 19

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 353-42
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1824+100 O/S 14M LT
 LOGGED BY: KJ DATE COMPLETED: 95-05-15

FIELD NO: 123
 LAB NO: 201
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 124
 LAB NO: 202
 DEPTH: 4.3-4.5
 TYPE: AUGER

FIELD NO: 125
 LAB NO: 203
 DEPTH: 5.8-6.0
 TYPE: AUGER

FIELD NO: 126
 LAB NO: 204
 DEPTH: 7.3-7.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	87
0.160	53
0.150	--
0.080	28

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	97
10.0	97
5.0	95
2.5	94
2.0	--
1.25	93
0.840	--
0.630	91
0.420	--
0.315	75
0.160	43
0.150	--
0.080	26

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	95
12.5	93
10.0	92
5.0	91
2.5	90
2.0	--
1.25	88
0.840	--
0.630	84
0.420	--
0.315	64
0.160	29
0.150	--
0.080	13

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	98
2.0	--
1.25	98
0.840	--
0.630	94
0.420	--
0.315	77
0.160	41
0.150	--
0.080	23

M.C. (%): 17

M.C. (%): 20

M.C. (%): 16

M.C. (%): 19

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 72
 % FINES: 28

% GRAVEL: 5
 % SAND: 68
 % FINES: 26

% GRAVEL: 9
 % SAND: 77
 % FINES: 13

% GRAVEL: 0
 % SAND: 77
 % FINES: 23

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 353-43
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1824+175 O/S 13M LT
 LOGGED BY: KJ DATE COMPLETED: 95-05-15

FIELD NO: 127
 LAB NO: 205
 DEPTH: 2.4-2.6
 TYPE: AUGER

FIELD NO: 128
 LAB NO: 206
 DEPTH: 3.0-3.2
 TYPE: AUGER

FIELD NO: 129
 LAB NO: 207
 DEPTH: 4.3-4.5
 TYPE: AUGER

FIELD NO: 130
 LAB NO: 208
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	89
12.5	75
10.0	71
5.0	60
2.5	53
2.0	--
1.25	49
0.840	--
0.630	45
0.420	--
0.315	38
0.160	27
0.150	--
0.080	20

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	95
0.160	85
0.150	--
0.080	72

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	94
10.0	88
5.0	75
2.5	67
2.0	--
1.25	62
0.840	--
0.630	58
0.420	--
0.315	48
0.160	28
0.150	--
0.080	17

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	100
0.420	--
0.315	99
0.160	95
0.150	--
0.080	74

M.C. (%): 37

M.C. (%): 70

M.C. (%): 13

M.C. (%): 29

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 40
 % SAND: 40
 % FINES: 20

% GRAVEL: 0
 % SAND: 28
 % FINES: 72

% GRAVEL: 25
 % SAND: 59
 % FINES: 17

% GRAVEL: 0
 % SAND: 26
 % FINES: 74

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 353-44
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1824+300 O/S 16M LT
 LOGGED BY: KJ DATE COMPLETED: 95-05-15

FIELD NO: 131
 LAB NO: 209
 DEPTH: 3.2-3.4
 TYPE: AUGER

FIELD NO: 132
 LAB NO: 210
 DEPTH: 4.3-4.5
 TYPE: AUGER

FIELD NO: 133
 LAB NO: 211
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	99
0.840	--
0.630	93
0.420	--
0.315	74
0.160	40
0.150	--
0.080	23

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	96
0.420	--
0.315	86
0.160	70
0.150	--
0.080	56

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	95
10.0	95
5.0	94
2.5	93
2.0	--
1.25	92
0.840	--
0.630	90
0.420	--
0.315	88
0.160	83
0.150	--
0.080	75

M.C. (%): 19

M.C. (%): 37

M.C. (%): 34

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 77
 % FINES: 23

% GRAVEL: 0
 % SAND: 44
 % FINES: 56

% GRAVEL: 6
 % SAND: 19
 % FINES: 75

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 353-45
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1824+525 O/S 13M LT
 LOGGED BY: KJ DATE COMPLETED: 95-05-15

FIELD NO: 134
 LAB NO: 212
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 135
 LAB NO: 213
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	100
0.420	--
0.315	97
0.160	91
0.150	--
0.080	72

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	94
12.5	84
10.0	78
5.0	61
2.5	52
2.0	--
1.25	47
0.840	--
0.630	44
0.420	--
0.315	35
0.160	20
0.150	--
0.080	13

M.C. (%): 28

M.C. (%): 9

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 28
 % FINES: 72

% GRAVEL: 39
 % SAND: 49
 % FINES: 13

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 353-46
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1824+612 O/S 16M LT
 LOGGED BY: KJ DATE COMPLETED: 95-05-15

FIELD NO: 136
 LAB NO: 214
 DEPTH: 3.0-3.2
 TYPE: AUGER

FIELD NO: 137
 LAB NO: 215
 DEPTH: 4.3-4.5
 TYPE: AUGER

FIELD NO: 138
 LAB NO: 216
 DEPTH: 5.3-5.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	98
0.420	--
0.315	77
0.160	37
0.150	--
0.080	23

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	95
0.420	--
0.315	73
0.160	39
0.150	--
0.080	22

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	99
5.0	97
2.5	95
2.0	--
1.25	92
0.840	--
0.630	87
0.420	--
0.315	71
0.160	40
0.150	--
0.080	24

M.C. (%): 18

M.C. (%): 16

M.C. (%): 13

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 77
 % FINES: 23

% GRAVEL: 0
 % SAND: 78
 % FINES: 22

% GRAVEL: 3
 % SAND: 74
 % FINES: 24

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 353-47
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1824+860 O/S 16M LT
 LOGGED BY: KJ DATE COMPLETED: 95-05-15

FIELD NO: 139
 LAB NO: 217
 DEPTH: 0.6-0.8
 TYPE: AUGER

FIELD NO: 140
 LAB NO: 218
 DEPTH: 2.5-2.7
 TYPE: AUGER

FIELD NO: 141
 LAB NO: 219
 DEPTH: 4.3-4.5
 TYPE: AUGER

FIELD NO: 142
 LAB NO: 220
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	98
5.0	97
2.5	97
2.0	--
1.25	96
0.840	--
0.630	93
0.420	--
0.315	81
0.160	54
0.150	--
0.080	35

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	81
20.0	78
12.5	69
10.0	64
5.0	55
2.5	51
2.0	--
1.25	48
0.840	--
0.630	38
0.420	--
0.315	19
0.160	10
0.150	--
0.080	7

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	88
10.0	87
5.0	85
2.5	82
2.0	--
1.25	80
0.840	--
0.630	76
0.420	--
0.315	70
0.160	63
0.150	--
0.080	42

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	99
2.5	99
2.0	--
1.25	98
0.840	--
0.630	97
0.420	--
0.315	95
0.160	92
0.150	--
0.080	89

M.C. (%): 53

M.C. (%): 27

M.C. (%): 26

M.C. (%): 37

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 3
 % SAND: 62
 % FINES: 35

% GRAVEL: 45
 % SAND: 49
 % FINES: 7

% GRAVEL: 15
 % SAND: 42
 % FINES: 42

% GRAVEL: 1
 % SAND: 10
 % FINES: 89

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 POORLY GRADED
 SAND WITH SILT &
 GRAVEL (SP-SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILT (ML)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 353-48
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1825+050 O/S 11M LT
 LOGGED BY: KJ DATE COMPLETED: 95-05-15

FIELD NO: 143
 LAB NO: 221
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 144
 LAB NO: 222
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 145
 LAB NO: 223
 DEPTH: 3.8-4.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	97
0.420	--
0.315	95
0.160	92
0.150	--
0.080	73

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	98
0.420	--
0.315	88
0.160	60
0.150	--
0.080	37

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	98
0.420	--
0.315	86
0.160	48
0.150	--
0.080	24

M.C. (%): 47

M.C. (%): 29

M.C. (%): 18

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 27
 % FINES: 73

% GRAVEL: 0
 % SAND: 63
 % FINES: 37

% GRAVEL: 0
 % SAND: 76
 % FINES: 24

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 353-49
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1825+450 O/S 2M LT
 LOGGED BY: KJ DATE COMPLETED: 95-05-15

FIELD NO: 146
 LAB NO: 224
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 147
 LAB NO: 225
 DEPTH: 5.5-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	98
0.840	--
0.630	97
0.420	--
0.315	94
0.160	88
0.150	--
0.080	64

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	98
0.840	--
0.630	96
0.420	--
0.315	93
0.160	88
0.150	--
0.080	65

M.C. (%): 63

M.C. (%): 70

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 36
 % FINES: 64

% GRAVEL: 0
 % SAND: 35
 % FINES: 65

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 353-50
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1825+550 O/S 3M LT
 LOGGED BY: KJ DATE COMPLETED: 95-05-15

FIELD NO: 148
 LAB NO: 226
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	100
0.420	--
0.315	96
0.160	93
0.150	--
0.080	78

M.C. (%): 84

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 22
 % FINES: 78

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 353-51
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1825+675 O/S 10M RT
 LOGGED BY: KJ DATE COMPLETED: 95-05-15

FIELD NO: 149
 LAB NO: 227
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 150
 LAB NO: 228
 DEPTH: 4.3-4.5
 TYPE: AUGER

FIELD NO: 151
 LAB NO: 229
 DEPTH: 5.6-5.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	97
0.840	--
0.630	95
0.420	--
0.315	91
0.160	79
0.150	--
0.080	65

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	98
0.160	96
0.150	--
0.080	83

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	96
12.5	88
10.0	83
5.0	72
2.5	63
2.0	--
1.25	57
0.840	--
0.630	52
0.420	--
0.315	44
0.160	36
0.150	--
0.080	30

M.C. (%): 100

M.C. (%): 32

M.C. (%): 16

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 35
 % FINES: 65

% GRAVEL: 0
 % SAND: 17
 % FINES: 83

% GRAVEL: 28
 % SAND: 42
 % FINES: 30

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 353-52
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1825+675 O/S 13M LT
 LOGGED BY: KJ DATE COMPLETED: 95-05-15

FIELD NO: 152
 LAB NO: 230
 DEPTH: 4.3-4.5
 TYPE: AUGER

FIELD NO: 153
 LAB NO: 231
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	98
0.840	--
0.630	97
0.420	--
0.315	94
0.160	82
0.150	--
0.080	53

M.C. (%): 62

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 47
 % FINES: 53

CLASSIFICATION:
 SANDY SILT (ML)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	100
0.420	--
0.315	93
0.160	80
0.150	--
0.080	58

M.C. (%): 90

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 42
 % FINES: 58

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 353-53
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1825+780
 LOGGED BY: KJ DATE COMPLETED: 95-05-15

FIELD NO: 154
 LAB NO: 232
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 155
 LAB NO: 233
 DEPTH: 3.8-4.0
 TYPE: AUGER

FIELD NO: 156
 LAB NO: 234
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	98
0.160	92
0.150	--
0.080	68

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	100
0.420	--
0.315	99
0.160	98
0.150	--
0.080	83

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	100
5.0	99
2.5	98
2.0	--
1.25	97
0.840	--
0.630	96
0.420	--
0.315	95
0.160	90
0.150	--
0.080	63

M.C. (%): 63

M.C. (%): 37

M.C. (%): 34

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 32
 % FINES: 68

% GRAVEL: 0
 % SAND: 17
 % FINES: 83

% GRAVEL: 1
 % SAND: 36
 % FINES: 63

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 353-54
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1825+875 O/S 6M LT
 LOGGED BY: KJ DATE COMPLETED: 95-05-15

FIELD NO: 157
 LAB NO: 235
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 158
 LAB NO: 236
 DEPTH: 4.3-5.0
 TYPE: AUGER

FIELD NO: 159
 LAB NO: 237
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	100
0.420	--
0.315	99
0.160	97
0.150	--
0.080	80

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	100
0.160	99
0.150	--
0.080	75

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	100
0.160	99
0.150	--
0.080	74

M.C. (%): 54

M.C. (%): 37

M.C. (%): 30

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 20
 % FINES: 80

% GRAVEL: 0
 % SAND: 25
 % FINES: 75

% GRAVEL: 0
 % SAND: 26
 % FINES: 74

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-55
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1826+075 O/S 14M LT
 LOGGED BY: CC DATE COMPLETED: 95.05.16

FIELD NO: 160
 LAB NO: 238
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 161
 LAB NO: 239
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	97
0.160	96
0.150	--
0.080	89

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	98
0.160	96
0.150	--
0.080	81

M.C. (%): 59

M.C. (%): 56

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 11
 % FINES: 89

% GRAVEL: 0
 % SAND: 19
 % FINES: 81

CLASSIFICATION:
 SILT (ML)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-56
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1826+175 O/S 18M LT
 LOGGED BY: CC DATE COMPLETED: 95.05.16

FIELD NO: 162
 LAB NO: 240
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 163
 LAB NO: 241
 DEPTH: 4.3-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	97
0.160	95
0.150	--
0.080	79

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	100
0.420	--
0.315	99
0.160	98
0.150	--
0.080	74

M.C. (%): 50

M.C. (%): 37

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 21
 % FINES: 79

% GRAVEL: 0
 % SAND: 26
 % FINES: 74

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-57
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1826+310 O/S 10M LT
 LOGGED BY: CC DATE COMPLETED: 95.05.16

FIELD NO: 164
 LAB NO: 242
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 165
 LAB NO: 243
 DEPTH: 4.4-4.6
 TYPE: AUGER

FIELD NO: 166
 LAB NO: 244
 DEPTH: 4.8-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	98
0.420	--
0.315	95
0.160	88
0.150	--
0.080	67

M.C. (%): 90

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 33
 % FINES: 67

CLASSIFICATION:
 SANDY SILT (ML)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	82
12.5	77
10.0	73
5.0	64
2.5	57
2.0	--
1.25	52
0.840	--
0.630	46
0.420	--
0.315	41
0.160	36
0.150	--
0.080	30

M.C. (%): 45

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 36
 % SAND: 34
 % FINES: 30

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	92
12.5	86
10.0	83
5.0	76
2.5	70
2.0	--
1.25	65
0.840	--
0.630	60
0.420	--
0.315	55
0.160	48
0.150	--
0.080	41

M.C. (%): 35

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 24
 % SAND: 35
 % FINES: 41

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-58
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1826+375 O/S 10M LT
 LOGGED BY: CC DATE COMPLETED: 95.05.16

FIELD NO: 167
 LAB NO: 245
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 168
 LAB NO: 246
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	98
0.840	--
0.630	97
0.420	--
0.315	95
0.160	89
0.150	--
0.080	65

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	97
0.420	--
0.315	96
0.160	93
0.150	--
0.080	84

M.C. (%): 69

M.C. (%): 98

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 35
 % FINES: 65

% GRAVEL: 0
 % SAND: 16
 % FINES: 84

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-59
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1826+475 O/S 6M LT
 LOGGED BY: CC DATE COMPLETED: 95.05.16

FIELD NO: 169
 LAB NO: 247
 DEPTH: 3.4-3.6
 TYPE: AUGER

FIELD NO: 170
 LAB NO: 248
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	90
10.0	86
5.0	75
2.5	64
2.0	--
1.25	57
0.840	--
0.630	51
0.420	--
0.315	44
0.160	37
0.150	--
0.080	29

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	100
0.160	96
0.150	--
0.080	84

M.C. (%): 34

M.C. (%): 60

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 25
 % SAND: 46
 % FINES: 29

% GRAVEL: 0
 % SAND: 16
 % FINES: 84

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-60
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1826+571 O/S 8M LT
 LOGGED BY: CC DATE COMPLETED: 95.05.16

FIELD NO: 171
 LAB NO: 249
 DEPTH: 4.3-4.5
 TYPE: AUGER

FIELD NO: 172
 LAB NO: 250
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	98
5.0	97
2.5	96
2.0	--
1.25	95
0.840	--
0.630	94
0.420	--
0.315	93
0.160	90
0.150	--
0.080	81

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	97
0.840	--
0.630	94
0.420	--
0.315	91
0.160	88
0.150	--
0.080	79

M.C. (%): 67

M.C. (%): 117

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 3
 % SAND: 16
 % FINES: 81

% GRAVEL: 0
 % SAND: 21
 % FINES: 79

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-61
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1826+655 O/S 14M LT
 LOGGED BY: CC DATE COMPLETED: 95.05.16

FIELD NO: 173
 LAB NO: 251
 DEPTH: 1.8-2.0
 TYPE: AUGER

FIELD NO: 174
 LAB NO: 252
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 175
 LAB NO: 253
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	82
12.5	69
10.0	62
5.0	47
2.5	38
2.0	--
1.25	30
0.840	--
0.630	24
0.420	--
0.315	17
0.160	11
0.150	--
0.080	8

M.C. (%): 20

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 53
 % SAND: 39
 % FINES: 8

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	94
12.5	88
10.0	85
5.0	75
2.5	66
2.0	--
1.25	60
0.840	--
0.630	53
0.420	--
0.315	42
0.160	30
0.150	--
0.080	20

M.C. (%): 21

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 25
 % SAND: 55
 % FINES: 20

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	98
10.0	97
5.0	95
2.5	90
2.0	--
1.25	85
0.840	--
0.630	81
0.420	--
0.315	76
0.160	70
0.150	--
0.080	56

M.C. (%): 53

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 5
 % SAND: 38
 % FINES: 56

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-62
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1826+750 O/S 2M LT
 LOGGED BY: CC DATE COMPLETED: 95.05.16

FIELD NO: 176
 LAB NO: 254
 DEPTH: 1.2-1.4
 TYPE: AUGER

FIELD NO: 177
 LAB NO: 255
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 178
 LAB NO: 256
 DEPTH: 3.6-3.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

SIEVE SIZE	PERCENT PASSING
------------	-----------------

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	99
0.840	--
0.630	95
0.420	--
0.315	84
0.160	71
0.150	--
0.080	56

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	95
10.0	95
5.0	92
2.5	90
2.0	--
1.25	88
0.840	--
0.630	86
0.420	--
0.315	83
0.160	78
0.150	--
0.080	68

100.0	--
80.0	--
50.0	100
31.5	--
25.0	87
20.0	79
12.5	62
10.0	55
5.0	44
2.5	37
2.0	--
1.25	31
0.840	--
0.630	25
0.420	--
0.315	20
0.160	17
0.150	--
0.080	13

M.C. (%): 63

M.C. (%): 105

M.C. (%): 17

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 44
 % FINES: 56

% GRAVEL: 8
 % SAND: 23
 % FINES: 68

% GRAVEL: 56
 % SAND: 32
 % FINES: 13

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-63
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1826+830 O/S 14M LT
 LOGGED BY: CC DATE COMPLETED: 95.05.16

FIELD NO: 179
 LAB NO: 257
 DEPTH: 1.4-1.5
 TYPE: AUGER

ORGANICS

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	96
2.0	--
1.25	92
0.840	--
0.630	89
0.420	--
0.315	85
0.160	79
0.150	--
0.080	70

M.C. (%): 143

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 30
 % FINES: 70

CLASSIFICATION:
 SANDY SILT (ML)

FIELD NO: 180
 LAB NO: 258
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	98
20.0	96
12.5	74
10.0	67
5.0	53
2.5	46
2.0	--
1.25	40
0.840	--
0.630	36
0.420	--
0.315	32
0.160	28
0.150	--
0.080	24

M.C. (%): 31

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 47
 % SAND: 29
 % FINES: 24

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

FIELD NO: 181
 LAB NO: 259
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	86
12.5	73
10.0	67
5.0	55
2.5	45
2.0	--
1.25	38
0.840	--
0.630	33
0.420	--
0.315	27
0.160	22
0.150	--
0.080	17

M.C. (%): 11

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 45
 % SAND: 38
 % FINES: 17

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 353-41
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1824+050 O/S 16M LT
 LOGGED BY: KJ DATE COMPLETED: 95.05.15

FIELD NO: 120
 LAB NO: 198
 DEPTH: 2.0-2.2
 TYPE: AUGER

FIELD NO: 121
 LAB NO: 199
 DEPTH: 4.3-4.5
 TYPE: AUGER

FIELD NO: 122
 LAB NO: 200
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	93
12.5	81
10.0	78
5.0	71
2.5	68
2.0	--
1.25	66
0.840	--
0.630	63
0.420	--
0.315	49
0.160	21
0.150	--
0.080	9

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	91
20.0	82
12.5	70
10.0	67
5.0	61
2.5	59
2.0	--
1.25	56
0.840	--
0.630	53
0.420	--
0.315	38
0.160	16
0.150	--
0.080	8

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	97
10.0	95
5.0	93
2.5	91
2.0	--
1.25	90
0.840	--
0.630	88
0.420	--
0.315	68
0.160	19
0.150	--
0.080	6

M.C. (%): 7

M.C. (%): 9

M.C. (%): 5

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 29
 % SAND: 62
 % FINES: 9

% GRAVEL: 39
 % SAND: 54
 % FINES: 8

% GRAVEL: 7
 % SAND: 87
 % FINES: 6

CLASSIFICATION:
 POORLY GRADED
 SAND WITH SILT &
 GRAVEL (SP-SM)

CLASSIFICATION:
 POORLY GRADED
 SAND WITH SILT &
 GRAVEL (SP-SM)

CLASSIFICATION:
 POORLY GRADED
 SAND WITH SILT
 (SP-SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-64
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1826+875 O/S 4M RT
 LOGGED BY: DT DATE COMPLETED: 95.05.24

FIELD NO: 182
 LAB NO: 313
 DEPTH: 1.2-1.4
 TYPE: AUGER

FIELD NO: 183
 LAB NO: 314
 DEPTH: 2.6-2.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	97
0.420	--
0.315	95
0.160	92
0.150	--
0.080	82

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	94
10.0	92
5.0	86
2.5	80
2.0	--
1.25	75
0.840	--
0.630	68
0.420	--
0.315	60
0.160	53
0.150	--
0.080	44

M.C. (%): 44

M.C. (%): 13

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 18
 % FINES: 82

% GRAVEL: 14
 % SAND: 42
 % FINES: 44

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-65
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1827+000 O/S 2M RT
 LOGGED BY: DT DATE COMPLETED: 95.05.24

FIELD NO: 184
 LAB NO: 315
 DEPTH: 1.4-1.6
 TYPE: AUGER
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	96
0.160	91
0.150	--
0.080	78

M.C. (%): 68

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 22
 % FINES: 78

CLASSIFICATION:
 SILT WITH SAND
 (ML)

FIELD NO: 185
 LAB NO: 316
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	93
12.5	90
10.0	87
5.0	79
2.5	71
2.0	--
1.25	63
0.840	--
0.630	54
0.420	--
0.315	42
0.160	31
0.150	--
0.080	23

M.C. (%): 19

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 21
 % SAND: 55
 % FINES: 23

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

FIELD NO: 186
 LAB NO: 317
 DEPTH: 4.2-4.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	92
12.5	86
10.0	82
5.0	75
2.5	68
2.0	--
1.25	62
0.840	--
0.630	57
0.420	--
0.315	50
0.160	43
0.150	--
0.080	36

M.C. (%): 10

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 25
 % SAND: 39
 % FINES: 36

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-66
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1827+000 O/S 15M LT
 LOGGED BY: DT DATE COMPLETED: 95.05.24

FIELD NO: 187
 LAB NO: 318
 DEPTH: 1.4-1.6
 TYPE: AUGER
 ORGANICS

FIELD NO: 188
 LAB NO: 319
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 189
 LAB NO: 320
 DEPTH: 3.8-4.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	87
12.5	70
10.0	64
5.0	52
2.5	44
2.0	--
1.25	38
0.840	--
0.630	33
0.420	--
0.315	28
0.160	22
0.150	--
0.080	18

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	92
12.5	81
10.0	76
5.0	65
2.5	56
2.0	--
1.25	50
0.840	--
0.630	44
0.420	--
0.315	37
0.160	31
0.150	--
0.080	25

M.C. (%): 147

M.C. (%): 8

M.C. (%): 9

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: 48
 % SAND: 35
 % FINES: 18

% GRAVEL: 35
 % SAND: 40
 % FINES: 25

CLASSIFICATION:

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-67
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1827+075 O/S 2M RT
 LOGGED BY: DT DATE COMPLETED: 95.05.24

FIELD NO: 190
 LAB NO: 321
 DEPTH: 2.0-2.2
 TYPE: AUGER

FIELD NO: 191
 LAB NO: 322
 DEPTH: 3.2-3.4
 TYPE: AUGER

FIELD NO: 192
 LAB NO: 323
 DEPTH: 4.4-4.6
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	96
10.0	96
5.0	95
2.5	93
2.0	--
1.25	92
0.840	--
0.630	91
0.420	--
0.315	90
0.160	88
0.150	--
0.080	84

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	82
10.0	77
5.0	66
2.5	57
2.0	--
1.25	48
0.840	--
0.630	38
0.420	--
0.315	29
0.160	21
0.150	--
0.080	14

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	85
12.5	78
10.0	76
5.0	68
2.5	62
2.0	--
1.25	57
0.840	--
0.630	51
0.420	--
0.315	46
0.160	40
0.150	--
0.080	34

M.C. (%): 35

M.C. (%): 8

M.C. (%): 11

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 5
 % SAND: 10
 % FINES: 84

% GRAVEL: 34
 % SAND: 52
 % FINES: 14

% GRAVEL: 32
 % SAND: 34
 % FINES: 34

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-68
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1827+125 O/S 7M LT
 LOGGED BY: DT DATE COMPLETED: 95.05.24

FIELD NO: 193
 LAB NO: 324
 DEPTH: 1.4-1.6
 TYPE: AUGER

FIELD NO: 194
 LAB NO: 325
 DEPTH: 2.0-2.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	89
12.5	80
10.0	76
5.0	66
2.5	58
2.0	--
1.25	51
0.840	--
0.630	44
0.420	--
0.315	36
0.160	30
0.150	--
0.080	24

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	82
20.0	81
12.5	73
10.0	69
5.0	63
2.5	57
2.0	--
1.25	51
0.840	--
0.630	46
0.420	--
0.315	40
0.160	34
0.150	--
0.080	28

M.C. (%): 12

M.C. (%): 8

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 34
 % SAND: 43
 % FINES: 24

% GRAVEL: 37
 % SAND: 35
 % FINES: 28

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-69
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1827+150
 LOGGED BY: DT DATE COMPLETED: 95.05.24

FIELD NO: 195
 LAB NO: 326
 DEPTH: 1.2-1.4
 TYPE: AUGER
 ORGANICS

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%): 182

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:

FIELD NO: 196
 LAB NO: 368
 DEPTH: 4.2-4.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	79
20.0	71
12.5	64
10.0	60
5.0	53
2.5	47
2.0	--
1.25	42
0.840	--
0.630	38
0.420	--
0.315	34
0.160	30
0.150	--
0.080	25

M.C. (%): 9

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 47
 % SAND: 28
 % FINES: 25

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

FIELD NO: 197
 LAB NO: 327
 DEPTH: 5.6-5.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	92
12.5	86
10.0	82
5.0	70
2.5	62
2.0	--
1.25	54
0.840	--
0.630	48
0.420	--
0.315	41
0.160	34
0.150	--
0.080	27

M.C. (%): 10

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 30
 % SAND: 43
 % FINES: 27

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-70
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1827+250 O/S 3M LT
 LOGGED BY: DT DATE COMPLETED: 95.05.24

FIELD NO: 198
 LAB NO: 328
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 199
 LAB NO: 362
 DEPTH: 4.2-4.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	75
20.0	69
12.5	61
10.0	58
5.0	48
2.5	41
2.0	--
1.25	37
0.840	--
0.630	32
0.420	--
0.315	28
0.160	24
0.150	--
0.080	20

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	89
12.5	86
10.0	82
5.0	74
2.5	67
2.0	--
1.25	59
0.840	--
0.630	49
0.420	--
0.315	38
0.160	29
0.150	--
0.080	23

M.C. (%): 11

M.C. (%): 9

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 52
 % SAND: 28
 % FINES: 20

% GRAVEL: 26
 % SAND: 51
 % FINES: 23

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-71
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1827+325 O/S 13M LT
 LOGGED BY: DT DATE COMPLETED: 95.05.24

FIELD NO: 200
 LAB NO: 329
 DEPTH: 1.6-1.8
 TYPE: AUGER

FIELD NO: 201
 LAB NO: 361
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	100
2.5	99
2.0	--
1.25	99
0.840	--
0.630	96
0.420	--
0.315	92
0.160	83
0.150	--
0.080	67

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	91
20.0	89
12.5	79
10.0	75
5.0	65
2.5	57
2.0	--
1.25	51
0.840	--
0.630	46
0.420	--
0.315	41
0.160	35
0.150	--
0.080	29

M.C. (%): 41

M.C. (%): 11

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 33
 % FINES: 67

% GRAVEL: 35
 % SAND: 36
 % FINES: 29

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-73
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1827+450 O/S 3M LT
 LOGGED BY: DT DATE COMPLETED: 95.05.24

FIELD NO: 202
 LAB NO: 330
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 203
 LAB NO: 331
 DEPTH: 4.3-4.5
 TYPE: AUGER
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	100
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	95
0.420	--
0.315	85
0.160	70
0.150	--
0.080	52

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	100
2.5	99
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	96
0.160	94
0.150	--
0.080	83

M.C. (%): 59

M.C. (%): 46

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 48
 % FINES: 52

% GRAVEL: 0
 % SAND: 16
 % FINES: 83

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-74
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1827+525
 LOGGED BY: DT DATE COMPLETED: 95.05.24

FIELD NO: 204
 LAB NO: 332
 DEPTH: 2.8-3.0
 TYPE: AUGER
 ORGANICS

FIELD NO: 205
 LAB NO: 333
 DEPTH: 8.6-8.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	93
12.5	81
10.0	78
5.0	71
2.5	67
2.0	--
1.25	63
0.840	--
0.630	58
0.420	--
0.315	54
0.160	48
0.150	--
0.080	38

M.C. (%): 133

M.C. (%): 47

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: 29
 % SAND: 33
 % FINES: 38

CLASSIFICATION:

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-75
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1827+525 O/S 20M LT
 LOGGED BY: DT DATE COMPLETED: 95.05.24

FIELD NO: 206
 LAB NO: 334
 DEPTH: 2.8-3.0
 TYPE: AUGER
 ORGANICS

FIELD NO: 207
 LAB NO: 335
 DEPTH: 4.8-5.0
 TYPE: AUGER

FIELD NO: 208
 LAB NO: 336
 DEPTH: 5.8-6.0
 TYPE: AUGER
 ORGANICS

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	92
12.5	88
10.0	84
5.0	72
2.5	64
2.0	--
1.25	58
0.840	--
0.630	51
0.420	--
0.315	42
0.160	33
0.150	--
0.080	23

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%): 165

M.C. (%): 31

M.C. (%): 138

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: 28
 % SAND: 49
 % FINES: 23

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-76
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1827+625
 LOGGED BY: DT DATE COMPLETED: 95.05.25

FIELD NO: 209
 LAB NO: 337
 DEPTH: 2.6-2.8
 TYPE: AUGER
 ORGANICS

FIELD NO: 210
 LAB NO: 338
 DEPTH: 4.2-4.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	96
0.420	--
0.315	92
0.160	86
0.150	--
0.080	73

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	97
0.420	--
0.315	95
0.160	90
0.150	--
0.080	76

M.C. (%): 72

M.C. (%): 54

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 27
 % FINES: 73

% GRAVEL: 0
 % SAND: 24
 % FINES: 76

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-77
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1827+725 O/S 2M LT
 LOGGED BY: DT DATE COMPLETED: 95.05.25

FIELD NO: 211
 LAB NO: 339
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 212
 LAB NO: 340
 DEPTH: 4.2-4.4
 TYPE: AUGER
 ORGANICS

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	99
2.5	98
2.0	--
1.25	95
0.840	--
0.630	92
0.420	--
0.315	88
0.160	81
0.150	--
0.080	66

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%): 89

M.C. (%): 135

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 1
 % SAND: 33
 % FINES: 66

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-78
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1827+825 O/S 1M LT
 LOGGED BY: DT DATE COMPLETED: 95.05.25

FIELD NO: 213
 LAB NO: 341
 DEPTH: 4.2-4.4
 TYPE: AUGER
 ORGANICS

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%): 120

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-80
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1827+943 O/S 15M RT
 LOGGED BY: DT DATE COMPLETED: 95.05.25

FIELD NO: 214
 LAB NO: 342
 DEPTH: 1.2-1.4
 TYPE: AUGER
 ORGANICS

FIELD NO: 215
 LAB NO: 343
 DEPTH: 4.2-4.4
 TYPE: AUGER
 ORGANICS

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%): 119

M.C. (%): 112

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-81
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1828+029 O/S 2M LT
 LOGGED BY: DT DATE COMPLETED: 95.05.25

FIELD NO: 216
 LAB NO: 344
 DEPTH: 2.5-2.8
 TYPE: AUGER
 ORGANICS

FIELD NO: 217
 LAB NO: 345
 DEPTH: 5.2-5.4
 TYPE: AUGER
 ORGANICS

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	90
0.420	--
0.315	77
0.160	69
0.150	--
0.080	62

M.C. (%): 72

M.C. (%): 49

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: 0
 % SAND: 38
 % FINES: 62

CLASSIFICATION:

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-82
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1828+125 O/S 2M LT
 LOGGED BY: DT DATE COMPLETED: 95.05.25

FIELD NO: 218
 LAB NO: 346
 DEPTH: 3.0-3.2
 TYPE: AUGER

FIELD NO: 219
 LAB NO: 347
 DEPTH: 4.8-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	87
20.0	87
12.5	73
10.0	69
5.0	62
2.5	57
2.0	--
1.25	52
0.840	--
0.630	46
0.420	--
0.315	42
0.160	36
0.150	--
0.080	28

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	75
20.0	66
12.5	51
10.0	45
5.0	36
2.5	29
2.0	--
1.25	23
0.840	--
0.630	19
0.420	--
0.315	15
0.160	12
0.150	--
0.080	9

M.C. (%): 27

M.C. (%): 9

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 38
 % SAND: 34
 % FINES: 28

% GRAVEL: 64
 % SAND: 26
 % FINES: 9

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

PROJECT NUMBER: 092-202101-0314 **HOLE NUMBER:** 355-83
CLIENT: ENGINEERING-CAPITAL
PROJECT NAME: SHAKWAK PROJECT
PROJECT LOCATION: SEGMENT 14
DRILL UNIT: 36-003
HOLE LOCATION: 1828+225 O/S 3M LT
LOGGED BY: DT **DATE COMPLETED:** 95.05.25

FIELD NO: 220
LAB NO: 348
DEPTH: 1.2-1.4
TYPE: AUGER

FIELD NO: 221
LAB NO: 349
DEPTH: 2.8-3.0
TYPE: AUGER

FIELD NO: 222
LAB NO: 350
DEPTH: 4.2-4.4
TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	99
12.5	92
10.0	86
5.0	67
2.5	52
2.0	--
1.25	42
0.840	--
0.630	34
0.420	--
0.315	25
0.160	14
0.150	--
0.080	8

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	71
20.0	61
12.5	56
10.0	54
5.0	50
2.5	46
2.0	--
1.25	42
0.840	--
0.630	38
0.420	--
0.315	27
0.160	18
0.150	--
0.080	13

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	96
12.5	95
10.0	94
5.0	87
2.5	78
2.0	--
1.25	69
0.840	--
0.630	60
0.420	--
0.315	49
0.160	37
0.150	--
0.080	28

M.C. (%): 13

M.C. (%): 32

M.C. (%): 25

LIMITS
LIQUID: --
PLASTIC: --
P.I.: N.P.

LIMITS
LIQUID: --
PLASTIC: --
P.I.: N.P.

LIMITS
LIQUID: --
PLASTIC: --
P.I.: N.P.

% GRAVEL: 33
% SAND: 59
% FINES: 8

% GRAVEL: 50
% SAND: 37
% FINES: 13

% GRAVEL: 13
% SAND: 59
% FINES: 28

CLASSIFICATION:
 POORLY GRADED
 SAND WITH SILT &
 GRAVEL (SP-SM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-84
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1828+225 O/S 15M LT
 LOGGED BY: DT DATE COMPLETED: 95.05.25

FIELD NO: 223
 LAB NO: 351
 DEPTH: 1.2-1.4
 TYPE: AUGER

FIELD NO: 224
 LAB NO: 352
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 225
 LAB NO: 353
 DEPTH: 4.0-4.2
 TYPE: AUGER

FIELD NO: 226
 LAB NO: 354
 DEPTH: 5.6-5.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	93
12.5	88
10.0	87
5.0	83
2.5	81
2.0	--
1.25	78
0.840	--
0.630	73
0.420	--
0.315	65
0.160	48
0.150	--
0.080	28

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	96
12.5	91
10.0	87
5.0	76
2.5	64
2.0	--
1.25	55
0.840	--
0.630	46
0.420	--
0.315	22
0.160	9
0.150	--
0.080	6

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	97
10.0	92
5.0	81
2.5	70
2.0	--
1.25	56
0.840	--
0.630	41
0.420	--
0.315	27
0.160	19
0.150	--
0.080	13

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	76
20.0	74
12.5	67
10.0	64
5.0	56
2.5	49
2.0	--
1.25	44
0.840	--
0.630	37
0.420	--
0.315	30
0.160	23
0.150	--
0.080	17

M.C. (%): 45

M.C. (%): 21

M.C. (%): 19

M.C. (%): 16

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 17
 % SAND: 55
 % FINES: 28

% GRAVEL: 24
 % SAND: 71
 % FINES: 6

% GRAVEL: 19
 % SAND: 68
 % FINES: 13

% GRAVEL: 44
 % SAND: 39
 % FINES: 17

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 POORLY GRADED
 SAND WITH SILT &
 GRAVEL (SP-SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314 **HOLE NUMBER:** 355-85
CLIENT: ENGINEERING-CAPITAL
PROJECT NAME: SHAKWAK PROJECT
PROJECT LOCATION: SEGMENT 14
DRILL UNIT: 36-003
HOLE LOCATION: 1828+225 O/S 15M RT
LOGGED BY: DT **DATE COMPLETED:** 95.05.25

FIELD NO: 227
LAB NO: 355
DEPTH: 0.8-1.0
TYPE: AUGER

FIELD NO: 228
LAB NO: 356
DEPTH: 2.4-2.6
TYPE: AUGER
 ORGANIC

FIELD NO: 229
LAB NO: 357
DEPTH: 4.2-4.4
TYPE: AUGER

FIELD NO: 230
LAB NO: 358
DEPTH: 5.6-5.8
TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	82
20.0	75
12.5	60
10.0	55
5.0	41
2.5	30
2.0	--
1.25	23
0.840	--
0.630	19
0.420	--
0.315	15
0.160	10
0.150	--
0.080	6

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	99
5.0	96
2.5	90
2.0	--
1.25	85
0.840	--
0.630	77
0.420	--
0.315	46
0.160	22
0.150	--
0.080	13

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	83
20.0	74
12.5	72
10.0	69
5.0	66
2.5	62
2.0	--
1.25	58
0.840	--
0.630	53
0.420	--
0.315	44
0.160	32
0.150	--
0.080	21

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	91
20.0	88
12.5	79
10.0	73
5.0	62
2.5	53
2.0	--
1.25	45
0.840	--
0.630	37
0.420	--
0.315	29
0.160	21
0.150	--
0.080	14

M.C. (%): 7

M.C. (%): 62

M.C. (%): 24

M.C. (%): 12

LIMITS
LIQUID: --
PLASTIC: --
P.I.: N.P.

LIMITS
LIQUID: --
PLASTIC: --
P.I.: N.P.

LIMITS
LIQUID: --
PLASTIC: --
P.I.: N.P.

LIMITS
LIQUID: --
PLASTIC: --
P.I.: N.P.

% GRAVEL: 59
% SAND: 35
% FINES: 6

% GRAVEL: 4
% SAND: 82
% FINES: 13

% GRAVEL: 34
% SAND: 45
% FINES: 21

% GRAVEL: 38
% SAND: 48
% FINES: 14

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-86
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1828+325 O/S 3M LT
 LOGGED BY: DT DATE COMPLETED: 95.05.25

FIELD NO: 221
 LAB NO: 359
 DEPTH: 1.2-1.4
 TYPE: AUGER
 ORGANIC

FIELD NO: 222
 LAB NO: 360
 DEPTH: 2.0-2.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	96
0.840	--
0.630	92
0.420	--
0.315	87
0.160	80
0.150	--
0.080	65

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	97
12.5	85
10.0	81
5.0	67
2.5	56
2.0	--
1.25	47
0.840	--
0.630	40
0.420	--
0.315	33
0.160	26
0.150	--
0.080	20

M.C. (%): 139

M.C. (%): 32

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 35
 % FINES: 65

% GRAVEL: 33
 % SAND: 47
 % FINES: 20

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-87
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1829+427 O/S 2M RT
 LOGGED BY: DT DATE COMPLETED: 95.05.25

FIELD NO: 223
 LAB NO: 364
 DEPTH: 1.2-1.4
 TYPE: AUGER

FIELD NO: 224
 LAB NO: 372
 DEPTH: 2.0-2.2
 TYPE: AUGER

FIELD NO: 225
 LAB NO: 365
 DEPTH: 3.8-4.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	100
2.5	99
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	97
0.160	95
0.150	--
0.080	91

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	88
12.5	82
10.0	79
5.0	74
2.5	69
2.0	--
1.25	65
0.840	--
0.630	60
0.420	--
0.315	54
0.160	49
0.150	--
0.080	43

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	98
20.0	94
12.5	83
10.0	80
5.0	72
2.5	66
2.0	--
1.25	61
0.840	--
0.630	57
0.420	--
0.315	52
0.160	47
0.150	--
0.080	42

M.C. (%): 40

M.C. (%): 18

M.C. (%): 17

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 9
 % FINES: 91

% GRAVEL: 26
 % SAND: 31
 % FINES: 43

% GRAVEL: 28
 % SAND: 30
 % FINES: 42

CLASSIFICATION:
 SILT (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-88
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1829+325 O/S 15M LT
 LOGGED BY: DT DATE COMPLETED: 95.05.25

FIELD NO: 226
 LAB NO: 366
 DEPTH: 1.2-1.4
 TYPE: AUGER
 ORGANICS

FIELD NO: 227
 LAB NO: 367
 DEPTH: 4.2-4.4
 TYPE: AUGER
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	97
0.840	--
0.630	95
0.420	--
0.315	93
0.160	90
0.150	--
0.080	84

M.C. (%): 123

M.C. (%): 64

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: 0
 % SAND: 16
 % FINES: 84

CLASSIFICATION:

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-89
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1829+535 O/S 15M LT
 LOGGED BY: DT DATE COMPLETED: 95.05.25

FIELD NO: 228
 LAB NO: 368
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 229
 LAB NO: 369
 DEPTH: 4.2-4.4
 TYPE: AUGER

FIELD NO: 230
 LAB NO: 370
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	91
20.0	91
12.5	84
10.0	80
5.0	73
2.5	67
2.0	--
1.25	62
0.840	--
0.630	58
0.420	--
0.315	52
0.160	47
0.150	--
0.080	42

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	88
10.0	84
5.0	78
2.5	74
2.0	--
1.25	70
0.840	--
0.630	66
0.420	--
0.315	62
0.160	57
0.150	--
0.080	51

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	98
20.0	94
12.5	87
10.0	83
5.0	75
2.5	69
2.0	--
1.25	64
0.840	--
0.630	59
0.420	--
0.315	52
0.160	45
0.150	--
0.080	40

M.C. (%): 16

M.C. (%): 18

M.C. (%): 12

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 27
 % SAND: 31
 % FINES: 42

% GRAVEL: 22
 % SAND: 26
 % FINES: 51

% GRAVEL: 25
 % SAND: 36
 % FINES: 40

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SANDY SILT WITH
 GRAVEL (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-90
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1829+650 O/S 16M LT
 LOGGED BY: DT DATE COMPLETED: 95.05.25

FIELD NO: 231
 LAB NO: 371
 DEPTH: 2.8-3.0
 TYPE: AUGER
 ORGANICS

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%): 104

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 355-92
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1829+850
 LOGGED BY: DT DATE COMPLETED: 95.05.25

FIELD NO: 232
 LAB NO: 373
 DEPTH: 4.2-4.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	100
10.0	99
5.0	98
2.5	94
2.0	--
1.25	89
0.840	--
0.630	80
0.420	--
0.315	66
0.160	50
0.150	--
0.080	37

M.C. (%): 37

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 2
 % SAND: 61
 % FINES: 37

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 356-93
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1829+975
 LOGGED BY: KJ DATE COMPLETED: 95-05-26

FIELD NO: 233
 LAB NO: 374
 DEPTH: 5.6-5.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	99
5.0	92
2.5	88
2.0	--
1.25	84
0.840	--
0.630	80
0.420	--
0.315	75
0.160	69
0.150	--
0.080	62

M.C. (%): 56

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 8
 % SAND: 30
 % FINES: 62

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 356-94
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1830+075 O/S 12M LT
 LOGGED BY: KJ DATE COMPLETED: 95-05-26

FIELD NO: 234
 LAB NO: 375
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 235
 LAB NO: 376
 DEPTH: 4.2-4.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%): 102

M.C. (%): 80

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 356-95
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1830+215 O/S 15M LT
 LOGGED BY: KJ DATE COMPLETED: 95-05-26

FIELD NO: 236
 LAB NO: 377
 DEPTH: 4.0-4.2
 TYPE: AUGER

FIELD NO: 237
 LAB NO: 378
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	99
5.0	76
2.5	48
2.0	--
1.25	33
0.840	--
0.630	23
0.420	--
0.315	18
0.160	14
0.150	--
0.080	11

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%): 13

M.C. (%): 99

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 24
 % SAND: 65
 % FINES: 11

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:
 POORLY GRADED
 SAND WITH SILT &
 GRAVEL (SP-SM)

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 356-96
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1830+332 O/S 16M LT
 LOGGED BY: KJ3 DATE COMPLETED: 95-05-26

FIELD NO: 238
 LAB NO: 379
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 239
 LAB NO: 380
 DEPTH: 4.2-4.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	99
5.0	90
2.5	77
2.0	--
1.25	65
0.840	--
0.630	51
0.420	--
0.315	34
0.160	23
0.150	--
0.080	16

M.C. (%): 56

M.C. (%): 25

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: 10
 % SAND: 74
 % FINES: 16

CLASSIFICATION:

CLASSIFICATION:
SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 356-97
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1830+425 O/S 15M LT
 LOGGED BY: KJ DATE COMPLETED: 95-05-26

FIELD NO: 240
 LAB NO: 381
 DEPTH: 4.2-4.4
 TYPE: AUGER

FIELD NO: 241
 LAB NO: 382
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	91
10.0	87
5.0	73
2.5	59
2.0	--
1.25	47
0.840	--
0.630	38
0.420	--
0.315	31
0.160	25
0.150	--
0.080	19

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	95
2.5	83
2.0	--
1.25	70
0.840	--
0.630	60
0.420	--
0.315	49
0.160	38
0.150	--
0.080	29

M.C. (%): 19

M.C. (%): 26

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 27
 % SAND: 54
 % FINES: 19

% GRAVEL: 5
 % SAND: 67
 % FINES: 29

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 356-99
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1830+625 O/S 12M LT
 LOGGED BY: KJ DATE COMPLETED: 95-05-26

FIELD NO: 242
 LAB NO: 383
 DEPTH: 4.2-4.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%): 59

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 356-100
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1830+725 O/S 3M LT
 LOGGED BY: KJ DATE COMPLETED: 95-05-26

FIELD NO: 243
 LAB NO: 384
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%): 86

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 356-101
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1830+725 O/S 20M LT
 LOGGED BY: KJ DATE COMPLETED: 95-05-26

FIELD NO: 244
 LAB NO: 385
 DEPTH: 1.8-2.0
 TYPE: AUGER

FIELD NO: 245
 LAB NO: 386
 DEPTH: 3.2-3.4
 TYPE: AUGER

FIELD NO: 246
 LAB NO: 387
 DEPTH: 4.2-4.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	96
10.0	89
5.0	77
2.5	68
2.0	--
1.25	60
0.840	--
0.630	52
0.420	--
0.315	41
0.160	30
0.150	--
0.080	22

M.C. (%): 24

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 23
 % SAND: 55
 % FINES: 22

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%): 52

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	100
5.0	97
2.5	96
2.0	--
1.25	94
0.840	--
0.630	91
0.420	--
0.315	88
0.160	85
0.150	--
0.080	77

M.C. (%): 81

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 3
 % SAND: 20
 % FINES: 77

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 356-102
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1830+825 O/S 5M LT
 LOGGED BY: KJ DATE COMPLETED: 95-05-26

FIELD NO: 247
 LAB NO: 388
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 248
 LAB NO: 389
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 249
 LAB NO: 390
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

SIEVE SIZE	PERCENT PASSING
------------	-----------------

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	88
20.0	84
12.5	72
10.0	70
5.0	65
2.5	61
2.0	--
1.25	58
0.840	--
0.630	54
0.420	--
0.315	46
0.160	37
0.150	--
0.080	27

100.0	--
80.0	--
50.0	100
31.5	--
25.0	79
20.0	74
12.5	66
10.0	62
5.0	53
2.5	45
2.0	--
1.25	39
0.840	--
0.630	31
0.420	--
0.315	24
0.160	20
0.150	--
0.080	16

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	98
2.5	95
2.0	--
1.25	90
0.840	--
0.630	84
0.420	--
0.315	76
0.160	69
0.150	--
0.080	63

M.C. (%): 29

M.C. (%): 17

M.C. (%): 57

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 35
 % SAND: 38
 % FINES: 27

% GRAVEL: 47
 % SAND: 37
 % FINES: 16

% GRAVEL: 2
 % SAND: 35
 % FINES: 63

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NAME: ALABAMA HIGHWAY RE CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1830+958 O/S 10M LT
 LOGGED BY: KJ

356-103

DATE COMPLETED: 95-05-26

FIELD NO: 250
 LAB NO: 391
 DEPTH: 1.2-1.4
 TYPE: AUGER

FIELD NO: 251
 LAB NO: 392
 DEPTH: 5.6-5.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	61
20.0	56
12.5	46
10.0	43
5.0	39
2.5	35
2.0	--
1.25	32
0.840	--
0.630	28
0.420	--
0.315	22
0.160	15
0.150	--
0.080	11

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	89
20.0	84
12.5	75
10.0	70
5.0	55
2.5	43
2.0	--
1.25	34
0.840	--
0.630	25
0.420	--
0.315	16
0.160	9
0.150	--
0.080	6

M.C. (%): 29

M.C. (%): 9

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 61
 % SAND: 27
 % FINES: 11

% GRAVEL: 45
 % SAND: 49
 % FINES: 6

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:
 POORLY GRADED
 SAND WITH SILT &
 GRAVEL (SP-SM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 356-104
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1831+162 O/S 15M LT
 LOGGED BY: KJ DATE COMPLETED: 95-05-26

FIELD NO: 252
 LAB NO: 393
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 253
 LAB NO: 394
 DEPTH: 4.2-4.4
 TYPE: AUGER

FIELD NO: 254
 LAB NO: 395
 DEPTH: 5.6-5.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	79
20.0	79
12.5	72
10.0	68
5.0	61
2.5	56
2.0	--
1.25	53
0.840	--
0.630	49
0.420	--
0.315	45
0.160	40
0.150	--
0.080	36

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	88
12.5	66
10.0	56
5.0	41
2.5	31
2.0	--
1.25	26
0.840	--
0.630	21
0.420	--
0.315	17
0.160	14
0.150	--
0.080	12

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	67
20.0	65
12.5	59
10.0	56
5.0	49
2.5	44
2.0	--
1.25	41
0.840	--
0.630	37
0.420	--
0.315	34
0.160	30
0.150	--
0.080	27

M.C. (%): 14

M.C. (%): 7

M.C. (%): 10

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 39
 % SAND: 25
 % FINES: 36

% GRAVEL: 59
 % SAND: 29
 % FINES: 12

% GRAVEL: 51
 % SAND: 22
 % FINES: 27

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 357-105
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1831+306 O/S 15M LT
 LOGGED BY: KJ DATE COMPLETED: 95-05-26

FIELD NO: 255
 LAB NO: 396
 DEPTH: 1.2-1.4
 TYPE: AUGER

FIELD NO: 256
 LAB NO: 397
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 257
 LAB NO: 398
 DEPTH: 4.0-4.2
 TYPE: AUGER

FIELD NO: 258
 LAB NO: 399
 DEPTH: 5.6-5.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	96
10.0	95
5.0	89
2.5	83
2.0	--
1.25	79
0.840	--
0.630	74
0.420	--
0.315	67
0.160	62
0.150	--
0.080	56

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	81
20.0	80
12.5	73
10.0	72
5.0	65
2.5	61
2.0	--
1.25	57
0.840	--
0.630	53
0.420	--
0.315	49
0.160	44
0.150	--
0.080	39

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	73
31.5	--
25.0	73
20.0	66
12.5	63
10.0	60
5.0	55
2.5	50
2.0	--
1.25	48
0.840	--
0.630	44
0.420	--
0.315	40
0.160	36
0.150	--
0.080	33

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	85
20.0	83
12.5	76
10.0	72
5.0	66
2.5	61
2.0	--
1.25	57
0.840	--
0.630	52
0.420	--
0.315	46
0.160	41
0.150	--
0.080	37

M.C. (%): 22

M.C. (%): 13

M.C. (%): 13

M.C. (%): 14

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 11
 % SAND: 33
 % FINES: 56

% GRAVEL: 35
 % SAND: 26
 % FINES: 39

% GRAVEL: 45
 % SAND: 22
 % FINES: 33

% GRAVEL: 34
 % SAND: 29
 % FINES: 37

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 357-109
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1831+165 O/S 20M LT
 LOGGED BY: CC DATE COMPLETED: 95-05-27

FIELD NO: 267
 LAB NO: 408
 DEPTH: 1.2-1.4
 TYPE: AUGER

FIELD NO: 268
 LAB NO: 409
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 269
 LAB NO: 410
 DEPTH: 4.2-4.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	96
0.160	93
0.150	--
0.080	83

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	91
12.5	78
10.0	73
5.0	62
2.5	56
2.0	--
1.25	51
0.840	--
0.630	46
0.420	--
0.315	41
0.160	36
0.150	--
0.080	31

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	88
20.0	77
12.5	66
10.0	60
5.0	47
2.5	40
2.0	--
1.25	34
0.840	--
0.630	28
0.420	--
0.315	24
0.160	20
0.150	--
0.080	17

M.C. (%): 45

M.C. (%): 13

M.C. (%): 8

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 17
 % FINES: 83

% GRAVEL: 38
 % SAND: 31
 % FINES: 31

% GRAVEL: 53
 % SAND: 30
 % FINES: 17

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 357-110
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1831+010 O/S 16M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-27

FIELD NO: 270
 LAB NO: 411
 DEPTH: 1.4-1.6
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	98
2.5	92
2.0	--
1.25	80
0.840	--
0.630	65
0.420	--
0.315	48
0.160	33
0.150	--
0.080	23

M.C. (%): 38

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 2
 % SAND: 75
 % FINES: 23

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 357-111
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1830+965 O/S 10M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-27

FIELD NO: 271
 LAB NO: 412
 DEPTH: 2.6-2.8
 TYPE: AUGER

FIELD NO: 272
 LAB NO: 413
 DEPTH: 4.2-4.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	60
31.5	--
25.0	56
20.0	54
12.5	51
10.0	50
5.0	47
2.5	44
2.0	--
1.25	40
0.840	--
0.630	36
0.420	--
0.315	31
0.160	26
0.150	--
0.080	23

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%): 38

M.C. (%): 21

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 53
 % SAND: 24
 % FINES: 23

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 357-112
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1830+725 O/S 14M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-27

FIELD NO: 273
 LAB NO: 414
 DEPTH: 2.8-3.0
 TYPE: AUGER
 ORGANICS

FIELD NO: 274
 LAB NO: 415
 DEPTH: 4.2-4.4
 TYPE: AUGER
 WITH ORGANICS

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	94
2.0	--
1.25	89
0.840	--
0.630	84
0.420	--
0.315	79
0.160	72
0.150	--
0.080	61

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	100
10.0	97
5.0	95
2.5	91
2.0	--
1.25	88
0.840	--
0.630	82
0.420	--
0.315	76
0.160	72
0.150	--
0.080	66

M.C. (%): 66

M.C. (%): 65

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 39
 % FINES: 61

% GRAVEL: 5
 % SAND: 29
 % FINES: 66

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 357-114
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1830+475 O/S 5M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-27

FIELD NO: 275
 LAB NO: 416
 DEPTH: 4.2-4.4
 TYPE: AUGER
 W/ORGANICS

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	95
10.0	93
5.0	85
2.5	79
2.0	--
1.25	73
0.840	--
0.630	66
0.420	--
0.315	56
0.160	49
0.150	--
0.080	42

M.C. (%): 88

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 15
 % SAND: 43
 % FINES: 42

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 357-115
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1830+380 O/S 20M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-27

FIELD NO: 276
 LAB NO: 417
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORG. W/TR ASH

FIELD NO: 277
 LAB NO: 418
 DEPTH: 4.2-4.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	94
12.5	91
10.0	89
5.0	82
2.5	74
2.0	--
1.25	66
0.840	--
0.630	56
0.420	--
0.315	38
0.160	27
0.150	--
0.080	23

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	99
12.5	97
10.0	94
5.0	73
2.5	50
2.0	--
1.25	36
0.840	--
0.630	26
0.420	--
0.315	16
0.160	11
0.150	--
0.080	8

M.C. (%): 49

M.C. (%): 17

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 18
 % SAND: 60
 % FINES: 23

% GRAVEL: 27
 % SAND: 66
 % FINES: 8

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 WELL-GRADED SAND
 WITH SILT &
 GRAVEL (SW-SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 357-117
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: ALASKA HIGHWAY KM 1822-1845
 DRILL UNIT: 36-003
 HOLE LOCATION: 1830+010 O/S 20M RT
 LOGGED BY: CC DATE COMPLETED: 95.05.27

FIELD NO: 279
 LAB NO: 420
 DEPTH: 2.0-2.2
 TYPE: AUGER

FIELD NO: 280
 LAB NO: 421
 DEPTH: 2.8-3
 TYPE: AUGER

FIELD NO: 281
 LAB NO: 422
 DEPTH: 4.2-4.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	93
10.0	90
5.0	77
2.5	61
2.0	--
1.25	48
0.840	--
0.630	38
0.420	--
0.315	19
0.160	10
0.150	--
0.080	7

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	87
12.5	74
10.0	66
5.0	50
2.5	38
2.0	--
1.25	30
0.840	--
0.630	25
0.420	--
0.315	16
0.160	10
0.150	--
0.080	8

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	94
10.0	91
5.0	84
2.5	77
2.0	--
1.25	71
0.840	--
0.630	64
0.420	--
0.315	53
0.160	41
0.150	--
0.080	31

M.C. (%): 17

M.C. (%): 13

M.C. (%): 32

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 23
 % SAND: 70
 % FINES: 7

% GRAVEL: 50
 % SAND: 42
 % FINES: 8

% GRAVEL: 16
 % SAND: 53
 % FINES: 31

CLASSIFICATION:
 POORLY GRADED
 SAND WITH SILT &
 GRAVEL (SP-SM)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 357-118
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1829+800 O/S 10M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-27

FIELD NO: 282
 LAB NO: 423
 DEPTH: 2.8-3.0
 TYPE: AUGER
 W/ORGANICS

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	97
10.0	95
5.0	86
2.5	77
2.0	--
1.25	68
0.840	--
0.630	58
0.420	--
0.315	49
0.160	41
0.150	--
0.080	34

M.C. (%): 50

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 14
 % SAND: 52
 % FINES: 34

CLASSIFICATION:
 SILTY SAND (SM)

FIELD NO: 283
 LAB NO: 424
 DEPTH: 4.2-4.4
 TYPE: AUGER
 W/ORGANICS

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	84
12.5	74
10.0	70
5.0	64
2.5	60
2.0	--
1.25	57
0.840	--
0.630	54
0.420	--
0.315	50
0.160	45
0.150	--
0.080	39

M.C. (%): 44

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 36
 % SAND: 25
 % FINES: 39

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 357-119
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1829+600 O/S 4M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-27

FIELD NO: 284
 LAB NO: 425
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	98
0.160	96
0.150	--
0.080	88

M.C. (%): 44

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 12
 % FINES: 88

CLASSIFICATION:
 SILT (ML)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 357-120
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1829+500 O/S 18M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-28

FIELD NO: 285
 LAB NO: 426
 DEPTH: 1.8-2.0
 TYPE: AUGER
 W/ORGANICS

FIELD NO: 286
 LAB NO: 427
 DEPTH: 2.8-3.0
 TYPE: AUGER
 W/ORGANICS

FIELD NO: 287
 LAB NO: 428
 DEPTH: 4.2-4.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	98
0.840	--
0.630	96
0.420	--
0.315	92
0.160	87
0.150	--
0.080	79

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	96
0.420	--
0.315	94
0.160	90
0.150	--
0.080	82

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	97
0.420	--
0.315	96
0.160	95
0.150	--
0.080	88

M.C. (%): 85

M.C. (%): 71

M.C. (%): 40

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 21
 % FINES: 79

% GRAVEL: 0
 % SAND: 18
 % FINES: 82

% GRAVEL: 0
 % SAND: 12
 % FINES: 88

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILT (ML)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 357-121
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1829+375 O/S 16M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-28

FIELD NO: 288
 LAB NO: 429
 DEPTH: 2.8-3.0
 TYPE: AUGER
 W/ORGANICS

FIELD NO: 289
 LAB NO: 430
 DEPTH: 4.2-4.4
 TYPE: AUGER
 W/ORGANICS

FIELD NO: 290
 LAB NO: 431
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	100
2.5	99
2.0	--
1.25	96
0.840	--
0.630	93
0.420	--
0.315	89
0.160	86
0.150	--
0.080	79

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	97
0.160	95
0.150	--
0.080	87

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	84
12.5	82
10.0	81
5.0	77
2.5	74
2.0	--
1.25	73
0.840	--
0.630	71
0.420	--
0.315	69
0.160	68
0.150	--
0.080	63

M.C. (%): 89

M.C. (%): 47

M.C. (%): 28

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 21
 % FINES: 79

% GRAVEL: 0
 % SAND: 13
 % FINES: 87

% GRAVEL: 23
 % SAND: 14
 % FINES: 63

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILT (ML)

CLASSIFICATION:
 GRAVELLY SILT
 (ML)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 357-122
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1829+235 O/S 5M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-28

FIELD NO: 291
 LAB NO: 432
 DEPTH: 1.8-2.0
 TYPE: AUGER
 W/ORGANICS

FIELD NO: 292
 LAB NO: 433
 DEPTH: 4.2-4.4
 TYPE: AUGER
 W/ORGANICS

FIELD NO: 293
 LAB NO: 434
 DEPTH: 5.6-5.8
 TYPE: AUGER
 W/ORGANICS

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	99
5.0	99
2.5	99
2.0	--
1.25	97
0.840	--
0.630	95
0.420	--
0.315	91
0.160	87
0.150	--
0.080	80

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	96
0.420	--
0.315	91
0.160	86
0.150	--
0.080	79

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	94
12.5	91
10.0	88
5.0	84
2.5	81
2.0	--
1.25	79
0.840	--
0.630	75
0.420	--
0.315	68
0.160	63
0.150	--
0.080	59

M.C. (%): 86

M.C. (%): 55

M.C. (%): 33

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 1
 % SAND: 20
 % FINES: 80

% GRAVEL: 0
 % SAND: 21
 % FINES: 79

% GRAVEL: 16
 % SAND: 25
 % FINES: 59

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SANDY SILT WITH
 GRAVEL (ML)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 357-123
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1829+100 O/S 15M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-28

FIELD NO: 294
 LAB NO: 435
 DEPTH: 1.2-1.4
 TYPE: AUGER

FIELD NO: 295
 LAB NO: 436
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 296
 LAB NO: 437
 DEPTH: 4.2-4.4
 TYPE: AUGER

FIELD NO: 297
 LAB NO: 438
 DEPTH: 5.6-5.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	100
0.160	99
0.150	--
0.080	91

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	88
12.5	81
10.0	77
5.0	72
2.5	68
2.0	--
1.25	64
0.840	--
0.630	60
0.420	--
0.315	55
0.160	50
0.150	--
0.080	44

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	96
12.5	89
10.0	85
5.0	78
2.5	73
2.0	--
1.25	69
0.840	--
0.630	64
0.420	--
0.315	59
0.160	54
0.150	--
0.080	49

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	87
12.5	84
10.0	83
5.0	75
2.5	66
2.0	--
1.25	59
0.840	--
0.630	52
0.420	--
0.315	46
0.160	41
0.150	--
0.080	34

M.C. (%): 34

M.C. (%): 18

M.C. (%): 22

M.C. (%): 13

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 9
 % FINES: 91

% GRAVEL: 28
 % SAND: 28
 % FINES: 44

% GRAVEL: 22
 % SAND: 29
 % FINES: 49

% GRAVEL: 25
 % SAND: 41
 % FINES: 34

CLASSIFICATION:
 SILT (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 357-124
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1829+025 O/S 4M LT
 LOGGED BY: CC DATE COMPLETED: 95-05-28

FIELD NO: 298
 LAB NO: 439
 DEPTH: 1.8-2.0
 TYPE: AUGER

FIELD NO: 299
 LAB NO: 440
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 300
 LAB NO: 441
 DEPTH: 4.2-4.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	97
5.0	96
2.5	92
2.0	--
1.25	89
0.840	--
0.630	85
0.420	--
0.315	81
0.160	77
0.150	--
0.080	72

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	81
12.5	69
10.0	65
5.0	60
2.5	56
2.0	--
1.25	54
0.840	--
0.630	50
0.420	--
0.315	46
0.160	42
0.150	--
0.080	38

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	80
20.0	77
12.5	72
10.0	67
5.0	59
2.5	54
2.0	--
1.25	51
0.840	--
0.630	47
0.420	--
0.315	42
0.160	38
0.150	--
0.080	34

M.C. (%): 31

M.C. (%): 20

M.C. (%): 15

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 4
 % SAND: 23
 % FINES: 72

% GRAVEL: 40
 % SAND: 22
 % FINES: 38

% GRAVEL: 41
 % SAND: 25
 % FINES: 34

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 358-125
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1828+925 O/S 2M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-28

FIELD NO: 301
 LAB NO: 442
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 302
 LAB NO: 44.3
 DEPTH: 4.2-4.4
 TYPE: AUGER
 W/ORGANICS

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	98
0.160	97
0.150	--
0.080	91

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	100
0.420	--
0.315	100
0.160	99
0.150	--
0.080	91

M.C. (%): 42

M.C. (%): 42

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 9
 % FINES: 91

% GRAVEL: 0
 % SAND: 9
 % FINES: 91

CLASSIFICATION:
 SILT (ML)

CLASSIFICATION:
 SILT (ML)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 358-126
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1828+795 O/S 18M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-28

FIELD NO: 303
 LAB NO: 444
 DEPTH: 2.8-3.0
 TYPE: AUGER
 W/ORGANICS

FIELD NO: 304
 LAB NO: 445
 DEPTH: 2.6-2.8
 TYPE: AUGER
 W/ORGANICS

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	75
20.0	67
12.5	60
10.0	56
5.0	52
2.5	48
2.0	--
1.25	45
0.840	--
0.630	42
0.420	--
0.315	39
0.160	36
0.150	--
0.080	32

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	97
2.5	93
2.0	--
1.25	89
0.840	--
0.630	82
0.420	--
0.315	77
0.160	72
0.150	--
0.080	64

M.C. (%): 30

M.C. (%): 63

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 48
 % SAND: 19
 % FINES: 32

% GRAVEL: 3
 % SAND: 32
 % FINES: 64

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 358-127
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1828+700 O/S 3M LT
 LOGGED BY: CC DATE COMPLETED: 95-05-28

FIELD NO: 305
 LAB NO: 446
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 306
 LAB NO: 447
 DEPTH: 3.2-3.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	100
0.420	--
0.315	99
0.160	98
0.150	--
0.080	95

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	82
20.0	80
12.5	74
10.0	67
5.0	53
2.5	42
2.0	--
1.25	35
0.840	--
0.630	29
0.420	--
0.315	25
0.160	22
0.150	--
0.080	19

M.C. (%): 38

M.C. (%): 9

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 5
 % FINES: 95

% GRAVEL: 47
 % SAND: 34
 % FINES: 19

CLASSIFICATION:
 SILT (ML)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 358-128
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1828+620
 LOGGED BY: CC DATE COMPLETED: 95-05-28

FIELD NO: 307
 LAB NO: 448
 DEPTH: 2.8-3.0
 TYPE: AUGER
 W/ORGANICS

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	99
0.160	97
0.150	--
0.080	87

M.C. (%): 50

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 13
 % FINES: 87

CLASSIFICATION:
 SILT (ML)

FIELD NO: 308
 LAB NO: 449
 DEPTH: 4.2-4.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	80
20.0	70
12.5	55
10.0	49
5.0	36
2.5	28
2.0	--
1.25	22
0.840	--
0.630	18
0.420	--
0.315	15
0.160	14
0.150	--
0.080	12

M.C. (%): 9

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 64
 % SAND: 24
 % FINES: 12

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 358-129
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1828+526 O/S 2M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-28

FIELD NO: 309
 LAB NO: 450
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 310
 LAB NO: 451
 DEPTH: 4.2-4.4
 TYPE: ERR

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	85
20.0	81
12.5	73
10.0	71
5.0	64
2.5	59
2.0	--
1.25	56
0.840	--
0.630	52
0.420	--
0.315	47
0.160	43
0.150	--
0.080	39

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	94
10.0	90
5.0	76
2.5	73
2.0	--
1.25	68
0.840	--
0.630	61
0.420	--
0.315	54
0.160	48
0.150	--
0.080	42

M.C. (%): 13

M.C. (%): 14

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 36
 % SAND: 25
 % FINES: 39

% GRAVEL: 24
 % SAND: 34
 % FINES: 42

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 358-130
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1826+550 O/S 18M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-28

FIELD NO: 311
 LAB NO: 452
 DEPTH: 1.8-2.0
 TYPE: AUGER

FIELD NO: 312
 LAB NO: 453
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 313
 LAB NO: 454
 DEPTH: 3.8-4.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	88
20.0	79
12.5	68
10.0	63
5.0	52
2.5	43
2.0	--
1.25	34
0.840	--
0.630	26
0.420	--
0.315	20
0.160	17
0.150	--
0.080	13

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	81
12.5	67
10.0	58
5.0	45
2.5	35
2.0	--
1.25	29
0.840	--
0.630	24
0.420	--
0.315	20
0.160	16
0.150	--
0.080	13

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	75
20.0	65
12.5	56
10.0	51
5.0	39
2.5	30
2.0	--
1.25	24
0.840	--
0.630	20
0.420	--
0.315	16
0.160	13
0.150	--
0.080	10

M.C. (%): 10

M.C. (%): 7

M.C. (%): 7

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 48
 % SAND: 39
 % FINES: 13

% GRAVEL: 55
 % SAND: 32
 % FINES: 13

% GRAVEL: 61
 % SAND: 29
 % FINES: 10

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 358-131
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1826+835 O/S 20M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-28

FIELD NO: 314
 LAB NO: 455
 DEPTH: 1.2-1.4
 TYPE: AUGER
 W/ORGANICS

FIELD NO: 315
 LAB NO: 456
 DEPTH: 2.4-2.6
 TYPE: AUGER

FIELD NO: 316
 LAB NO: 457
 DEPTH: 4.2-4.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	97
10.0	96
5.0	93
2.5	90
2.0	--
1.25	88
0.840	--
0.630	85
0.420	--
0.315	81
0.160	76
0.150	--
0.080	67

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	93
12.5	83
10.0	81
5.0	69
2.5	61
2.0	--
1.25	56
0.840	--
0.630	50
0.420	--
0.315	44
0.160	38
0.150	--
0.080	31

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	74
20.0	74
12.5	71
10.0	69
5.0	63
2.5	58
2.0	--
1.25	53
0.840	--
0.630	48
0.420	--
0.315	43
0.160	38
0.150	--
0.080	32

M.C. (%): 46

M.C. (%): 15

M.C. (%): 13

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 7
 % SAND: 26
 % FINES: 67

% GRAVEL: 31
 % SAND: 39
 % FINES: 31

% GRAVEL: 37
 % SAND: 31
 % FINES: 32

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 358-132
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1826+660 O/S 14M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-29

FIELD NO: 317
 LAB NO: 458
 DEPTH: 3.2-3.4
 TYPE: AUGER
 ORG. FINES

FIELD NO: 318
 LAB NO: 459
 DEPTH: 4.8-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	70
20.0	62
12.5	48
10.0	46
5.0	38
2.5	34
2.0	--
1.25	30
0.840	--
0.630	26
0.420	--
0.315	22
0.160	18
0.150	--
0.080	15

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	69
12.5	55
10.0	49
5.0	36
2.5	30
2.0	--
1.25	24
0.840	--
0.630	20
0.420	--
0.315	16
0.160	13
0.150	--
0.080	11

M.C. (%): 19

M.C. (%): 9

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 62
 % SAND: 23
 % FINES: 15

% GRAVEL: 64
 % SAND: 26
 % FINES: 11

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 358-133
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1826+525 O/S 10M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-29

FIELD NO: 319
 LAB NO: 460
 DEPTH: 4.2-4.4
 TYPE: AUGER
 ORG. FINES

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	95
10.0	92
5.0	83
2.5	77
2.0	--
1.25	71
0.840	--
0.630	65
0.420	--
0.315	58
0.160	51
0.150	--
0.080	42

M.C. (%): 36

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 17
 % SAND: 42
 % FINES: 42

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 358-134
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1826+380 O/S 22M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-29

FIELD NO: 320
 LAB NO: 461
 DEPTH: 2.8-3.0
 TYPE: AUGER
 ORGANICS

FIELD NO: 321
 LAB NO: 462
 DEPTH: 4.2-4.4
 TYPE: AUGER
 W/ORG. FINES

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	96
0.840	--
0.630	92
0.420	--
0.315	87
0.160	81
0.150	--
0.080	64

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	92
12.5	81
10.0	76
5.0	57
2.5	46
2.0	--
1.25	37
0.840	--
0.630	29
0.420	--
0.315	23
0.160	19
0.150	--
0.080	16

M.C. (%): 88

M.C. (%): 19

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 36
 % FINES: 64

% GRAVEL: 43
 % SAND: 42
 % FINES: 16

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 358-135
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1826+300 O/S 8M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-29

FIELD NO: 322
 LAB NO: 463
 DEPTH: 2.2-2.4
 TYPE: AUGER
 ORGANICS

FIELD NO: 323
 LAB NO: 464
 DEPTH: 5.6-5.8
 TYPE: AUGER
 W/ORG. FINES

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	99
0.840	--
0.630	97
0.420	--
0.315	93
0.160	88
0.150	--
0.080	77

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	80
12.5	65
10.0	58
5.0	46
2.5	38
2.0	--
1.25	32
0.840	--
0.630	27
0.420	--
0.315	22
0.160	19
0.150	--
0.080	15

M.C. (%): 74

M.C. (%): 12

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 23
 % FINES: 77

% GRAVEL: 54
 % SAND: 31
 % FINES: 15

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 358-136
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1826+176 O/S 4M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-29

FIELD NO: 324
 LAB NO: 465
 DEPTH: 1.2-1.4
 TYPE: AUGER
 W/SOME ORG.

FIELD NO: 325
 LAB NO: 466
 DEPTH: 2.8-3.0
 TYPE: AUGER
 ORGANICS

FIELD NO: 326
 LAB NO: 467
 DEPTH: 4.2-4.4
 TYPE: AUGER

FIELD NO: 327
 LAB NO: 468
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	100
2.5	99
2.0	--
1.25	97
0.840	--
0.630	96
0.420	--
0.315	94
0.160	93
0.150	--
0.080	84

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	100
0.160	100
0.150	--
0.080	85

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	95
12.5	88
10.0	85
5.0	76
2.5	69
2.0	--
1.25	63
0.840	--
0.630	57
0.420	--
0.315	51
0.160	45
0.150	--
0.080	39

M.C. (%): 42

M.C. (%): 63

M.C. (%): 28

M.C. (%): 13

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 16
 % FINES: 84

% GRAVEL: 0
 % SAND: 100
 % FINES: 0

% GRAVEL: 0
 % SAND: 15
 % FINES: 85

% GRAVEL: 24
 % SAND: 36
 % FINES: 39

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 POORLY GRADED
 SAND (SP)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 358-137
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1826+075 O/S 25M RT
 LOGGED BY: CC DATE COMPLETED: 95.05.29

FIELD NO: 328
 LAB NO: 469
 DEPTH: 2.8-3.0
 TYPE: AUGER
 ORGANIC

FIELD NO: 329
 LAB NO: 470
 DEPTH: 4.4-4.6
 TYPE: AUGER

FIELD NO: 330
 LAB NO: 471
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	97
0.840	--
0.630	94
0.420	--
0.315	92
0.160	86
0.150	--
0.080	79

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	100
0.160	99
0.150	--
0.080	83

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	80
20.0	68
12.5	59
10.0	55
5.0	45
2.5	39
2.0	--
1.25	35
0.840	--
0.630	31
0.420	--
0.315	27
0.160	24
0.150	--
0.080	20

M.C. (%): 73

M.C. (%): 28

M.C. (%): 10

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 21
 % FINES: 79

% GRAVEL: 0
 % SAND: 17
 % FINES: 83

% GRAVEL: 55
 % SAND: 25
 % FINES: 20

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 358-138
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1825+947 O/S 18M RT
 LOGGED BY: CC DATE COMPLETED: 95.05.29

FIELD NO: 331
 LAB NO: 472
 DEPTH: 2.8-3.0
 TYPE: AUGER
 ORGANICS

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	100
0.840	--
0.630	100
0.420	--
0.315	99
0.160	98
0.150	--
0.080	85

M.C. (%): 41

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 15
 % FINES: 85

CLASSIFICATION:
 SILT WITH SAND
 (ML)

FIELD NO: 332
 LAB NO: 473
 DEPTH: 4.8-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	81
20.0	73
12.5	68
10.0	61
5.0	52
2.5	46
2.0	--
1.25	42
0.840	--
0.630	39
0.420	--
0.315	36
0.160	32
0.150	--
0.080	28

M.C. (%): 16

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 48
 % SAND: 23
 % FINES: 28

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

FIELD NO: 333
 LAB NO: 474
 DEPTH: 5.6-5.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	80
12.5	71
10.0	67
5.0	57
2.5	52
2.0	--
1.25	47
0.840	--
0.630	43
0.420	--
0.315	40
0.160	36
0.150	--
0.080	31

M.C. (%): 13

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 43
 % SAND: 26
 % FINES: 31

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 358-139
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1825+875 O/S 15M RT
 LOGGED BY: CC DATE COMPLETED: 95.05.29

FIELD NO: 334
 LAB NO: 475
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 335
 LAB NO: 476
 DEPTH: 4.2-4.4
 TYPE: AUGER

FIELD NO: 336
 LAB NO: 477
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	100
0.420	--
0.315	99
0.160	97
0.150	--
0.080	77

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	79
20.0	79
12.5	72
10.0	71
5.0	63
2.5	59
2.0	--
1.25	55
0.840	--
0.630	51
0.420	--
0.315	48
0.160	44
0.150	--
0.080	40

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	94
5.0	85
2.5	78
2.0	--
1.25	73
0.840	--
0.630	67
0.420	--
0.315	62
0.160	56
0.150	--
0.080	50

M.C. (%): 29

M.C. (%): 17

M.C. (%): 21

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 23
 % FINES: 77

% GRAVEL: 37
 % SAND: 23
 % FINES: 40

% GRAVEL: 15
 % SAND: 35
 % FINES: 50

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SANDY SILT WITH
 GRAVEL (ML)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 358-140
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1825+350 O/S 2M LT
 LOGGED BY: CC DATE COMPLETED: 95.05.29

FIELD NO: 337
 LAB NO: 478
 DEPTH: 1.8-2.0
 TYPE: AUGER

FIELD NO: 338
 LAB NO: 479
 DEPTH: 3.2-3.4
 TYPE: AUGER

FIELD NO: 339
 LAB NO: 480
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	96
0.420	--
0.315	91
0.160	86
0.150	--
0.080	71

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	99
0.840	--
0.630	96
0.420	--
0.315	88
0.160	83
0.150	--
0.080	70

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	99
2.5	98
2.0	--
1.25	97
0.840	--
0.630	93
0.420	--
0.315	82
0.160	75
0.150	--
0.080	62

M.C. (%): 51

M.C. (%): 48

M.C. (%): 48

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 29
 % FINES: 71

% GRAVEL: 0
 % SAND: 30
 % FINES: 70

% GRAVEL: 1
 % SAND: 36
 % FINES: 62

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 358-141
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1825+200 O/S 2M LT
 LOGGED BY: CC DATE COMPLETED: 95.05.29

FIELD NO: 340
 LAB NO: 481
 DEPTH: 4.2-4.4
 TYPE: AUGER
 ORGANIC

FIELD NO: 341
 LAB NO: 482
 DEPTH: 5.2-5.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	93
0.420	--
0.315	82
0.160	74
0.150	--
0.080	62

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	95
0.420	--
0.315	77
0.160	45
0.150	--
0.080	29

M.C. (%): 84

M.C. (%): 18

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 38
 % FINES: 62

% GRAVEL: 0
 % SAND: 71
 % FINES: 29

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 362-142
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1824+975 5M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-29

FIELD NO: 342
 LAB NO: 483
 DEPTH: 2.4-2.6
 TYPE: AUGER
 ORGANICS

FIELD NO: 343
 LAB NO: 484
 DEPTH: 3.8-4.0
 TYPE: AUGER

FIELD NO: 344
 LAB NO: 485
 DEPTH: 5.6-5.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	97
0.420	--
0.315	94
0.160	89
0.150	--
0.080	76

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	98
0.420	--
0.315	88
0.160	67
0.150	--
0.080	46

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	94
0.420	--
0.315	73
0.160	37
0.150	--
0.080	20

M.C. (%): 70

M.C. (%): 44

M.C. (%): 15

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 24
 % FINES: 76

% GRAVEL: 0
 % SAND: 54
 % FINES: 46

% GRAVEL: 0
 % SAND: 80
 % FINES: 20

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 362-143
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1824+858 10M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-29

FIELD NO: 345
 LAB NO: 486
 DEPTH: 1.2-1.4
 TYPE: AUGER

FIELD NO: 346
 LAB NO: 487
 DEPTH: 1.8-2.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	62
31.5	--
25.0	44
20.0	40
12.5	33
10.0	29
5.0	22
2.5	19
2.0	--
1.25	17
0.840	--
0.630	15
0.420	--
0.315	11
0.160	7
0.150	--
0.080	4

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	98
10.0	98
5.0	97
2.5	96
2.0	--
1.25	96
0.840	--
0.630	95
0.420	--
0.315	91
0.160	70
0.150	--
0.080	39

M.C. (%): 3

M.C. (%): 31

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 78
 % SAND: 18
 % FINES: 4

% GRAVEL: 3
 % SAND: 58
 % FINES: 39

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SAND
 (GP)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 362-145
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1824+614 11M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-30

FIELD NO: 351
 LAB NO: 492
 DEPTH: 1.8-2.0
 TYPE: AUGER
 ORGANICS

FIELD NO: 352
 LAB NO: 493
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 353
 LAB NO: 494
 DEPTH: 3.6-3.8
 TYPE: AUGER

FIELD NO: 354
 LAB NO: 495
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	100
0.420	--
0.315	99
0.160	96
0.150	--
0.080	81

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	100
0.420	--
0.315	93
0.160	52
0.150	--
0.080	29

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	100
0.420	--
0.315	99
0.160	97
0.150	--
0.080	90

M.C. (%): 181

M.C. (%): 43

M.C. (%): 22

M.C. (%): 35

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: 0
 % SAND: 19
 % FINES: 81

% GRAVEL: 0
 % SAND: 71
 % FINES: 29

% GRAVEL: 0
 % SAND: 10
 % FINES: 90

CLASSIFICATION:

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILT (ML)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 362-146
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1824+473 10M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-30

FIELD NO: 355
 LAB NO: 496
 DEPTH: 2.4-2.6
 TYPE: AUGER

FIELD NO: 356
 LAB NO: 497
 DEPTH: 4.2-4.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	96
0.160	92
0.150	--
0.080	73

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	98
0.160	97
0.150	--
0.080	93

M.C. (%): 42

M.C. (%): 37

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 27
 % FINES: 73

% GRAVEL: 0
 % SAND: 7
 % FINES: 93

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILT (ML)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 362-147
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1824+220 12M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-30

FIELD NO: 357
 LAB NO: 498
 DEPTH: 1.8-2.0
 TYPE: AUGER
 ORGANICS

FIELD NO: 358
 LAB NO: 499
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 359
 LAB NO: 500
 DEPTH: 4.2-4.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	97
0.420	--
0.315	93
0.160	87
0.150	--
0.080	77

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	76
20.0	68
12.5	65
10.0	61
5.0	52
2.5	45
2.0	--
1.25	40
0.840	--
0.630	36
0.420	--
0.315	31
0.160	25
0.150	--
0.080	20

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	89
20.0	78
12.5	77
10.0	74
5.0	68
2.5	65
2.0	--
1.25	63
0.840	--
0.630	62
0.420	--
0.315	60
0.160	58
0.150	--
0.080	51

M.C. (%): 85

M.C. (%): 10

M.C. (%): 18

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 23
 % FINES: 77

% GRAVEL: 48
 % SAND: 32
 % FINES: 20

% GRAVEL: 32
 % SAND: 17
 % FINES: 51

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 GRAVELLY SILT
 WITH SAND (ML)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 362-148
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1823+904 20M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-30

FIELD NO: 360
 LAB NO: 501
 DEPTH: 1.8-2.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	98
2.0	--
1.25	97
0.840	--
0.630	94
0.420	--
0.315	88
0.160	71
0.150	--
0.080	53

M.C. (%): 43

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 47
 % FINES: 53

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 362-149
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1823+848 20M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-30

FIELD NO: 361
 LAB NO: 502
 DEPTH: 5.8-6.0
 TYPE: AUGER
 ORGANICS

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	98
2.0	--
1.25	95
0.840	--
0.630	91
0.420	--
0.315	86
0.160	77
0.150	--
0.080	73

M.C. (%): 169

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 27
 % FINES: 73

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 362-150
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1823+720 20M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-30

FIELD NO: 362
 LAB NO: 503
 DEPTH: 7.2-7.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	96
12.5	91
10.0	91
5.0	89
2.5	87
2.0	--
1.25	86
0.840	--
0.630	82
0.420	--
0.315	65
0.160	30
0.150	--
0.080	17

M.C. (%): 16

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 11
 % SAND: 72
 % FINES: 17

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 362-151
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1823+600 15M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-30

FIELD NO: 363
 LAB NO: 504
 DEPTH: 1.2-1.4
 TYPE: AUGER

FIELD NO: 364
 LAB NO: 505
 DEPTH: 1.8-2.0
 TYPE: AUGER

FIELD NO: 365
 LAB NO: 506
 DEPTH: 2.4-2.6
 TYPE: AUGER

FIELD NO: 366
 LAB NO: 507
 DEPTH: 4.2-4.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	95
0.160	88
0.150	--
0.080	79

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	87
0.160	50
0.150	--
0.080	36

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	93
10.0	89
5.0	79
2.5	72
2.0	--
1.25	66
0.840	--
0.630	61
0.420	--
0.315	49
0.160	33
0.150	--
0.080	22

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	99
2.5	98
2.0	--
1.25	97
0.840	--
0.630	94
0.420	--
0.315	89
0.160	86
0.150	--
0.080	81

M.C. (%): 40

M.C. (%): 24

M.C. (%): 13

M.C. (%): 27

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 21
 % FINES: 79

% GRAVEL: 0
 % SAND: 63
 % FINES: 36

% GRAVEL: 21
 % SAND: 58
 % FINES: 22

% GRAVEL: 1
 % SAND: 18
 % FINES: 81

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 092-202101-0314-1 HOLE NUMBER: 362-151
 CLIENT: SHAKWAK
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: 36-003
 HOLE LOCATION: 1823+600 15M RT
 LOGGED BY: CC DATE COMPLETED: 95-05-30

FIELD NO: 367
 LAB NO: 508
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	98
10.0	93
5.0	84
2.5	77
2.0	--
1.25	68
0.840	--
0.630	57
0.420	--
0.315	43
0.160	33
0.150	--
0.080	26

M.C. (%): 13

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 16
 % SAND: 58
 % FINES: 26

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 369-267
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: BACKHOE: HITACHI EX200 LC
 HOLE LOCATION: 1827+050 O/S 30M RT
 LOGGED BY: DT DATE COMPLETED: 95.07.10

FIELD NO: 567
 LAB NO: 755
 DEPTH: 1.6-1.8
 TYPE: BULK

FIELD NO: 568
 LAB NO: 756
 DEPTH: 2.2-2.4
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	97
0.160	95
0.150	--
0.080	78

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	96
10.0	94
5.0	85
2.5	77
2.0	--
1.25	67
0.840	--
0.630	58
0.420	--
0.315	50
0.160	42
0.150	--
0.080	35

M.C. (%): 43

M.C. (%): 31

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 22
 % FINES: 78

% GRAVEL: 15
 % SAND: 51
 % FINES: 35

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 369-268
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 14
 DRILL UNIT: BACKHOE: HITACHI EX200 LC
 HOLE LOCATION: 1827+225 O/S 30M RT
 LOGGED BY: DT DATE COMPLETED: 95.07.10

FIELD NO: 569
 LAB NO: 757
 DEPTH: 2.0-2.2
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	100
0.420	--
0.315	100
0.160	99
0.150	--
0.080	83

M.C. (%): 36

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 17
 % FINES: 83

CLASSIFICATION:
 SILT WITH SAND
 (ML)