

**HIGHWAY CONSTRUCTION**

**km 1831.0 to km 1843.5  
ALASKA HIGHWAY, Y.T.**

**CENTRELINE TESTING**

This Data Package prepared for project viewing:

June, 1995

Transportation Engineering Branch  
Geotechnical Services  
201 Range Road  
Whitehorse, Yukon

GR-01-090

GEOTECHNICAL INVESTIGATION  
HIGHWAY CONSTRUCTION  
km 1831.0 to km 1843.5, 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 1831+375 and increasing to km 1843+370.

**Auger Testing**

1983	TEST HOLES 03	shown with prefix 591-
1994	TEST HOLES 01 to 13	shown with prefix 320-
	TEST HOLES 01 to 21	shown with prefix 337-
	TEST HOLES 22 to 69	shown with prefix 338-
	TEST HOLES 70 to 115	shown with prefix 339-
1995	TEST HOLES 106 to 108	shown with prefix 357-
	TEST HOLES 166 to 168	shown with prefix 363-
	TEST HOLES 169 to 174	shown with prefix 364-

GEOTECHNICAL INVESTIGATION  
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## **INTRODUCTION**

GEOTECHNICAL INVESTIGATION  
HIGHWAY CONSTRUCTION  
km 1831.0 to km 1843.5, ALASKA HIGHWAY, Y.T.  
CENTRELINE TESTING

GEOTECHNICAL INVESTIGATION DATA

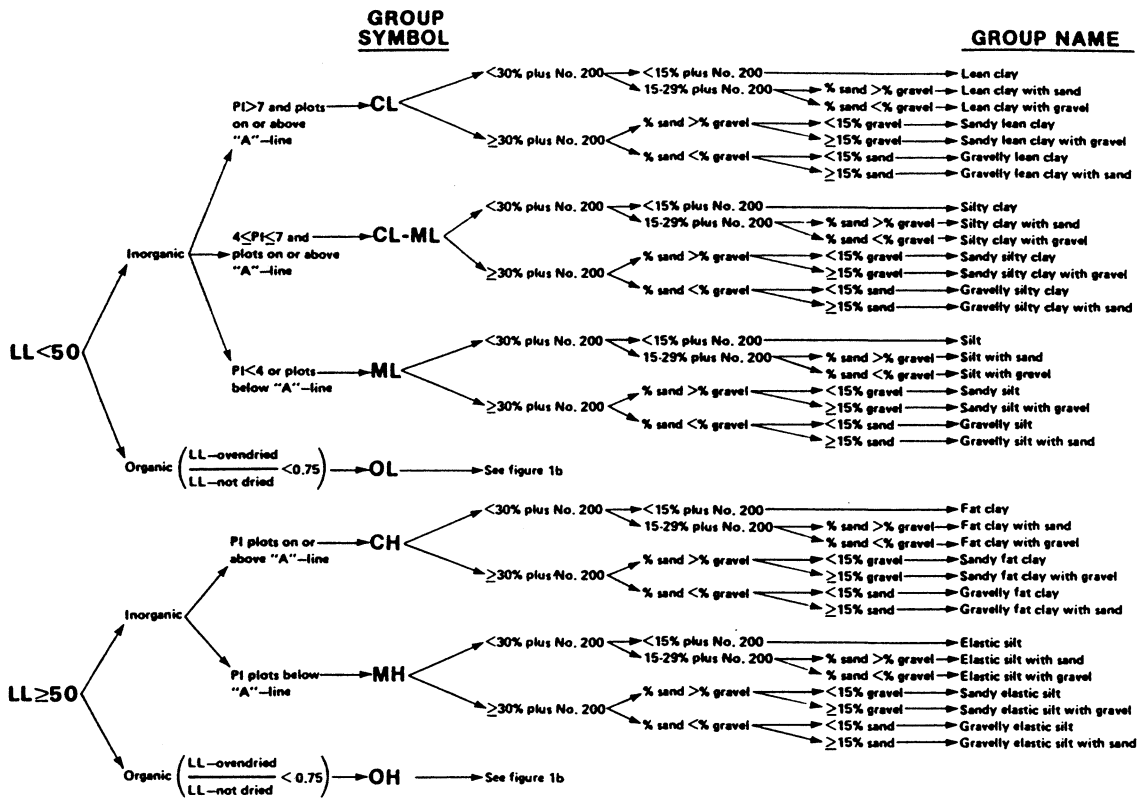
This geotechnical investigation data is provided to assist in the interpretation of soil conditions encountered within this project area. The data presented was prepared solely for Departmental designing and estimating purposes.

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.

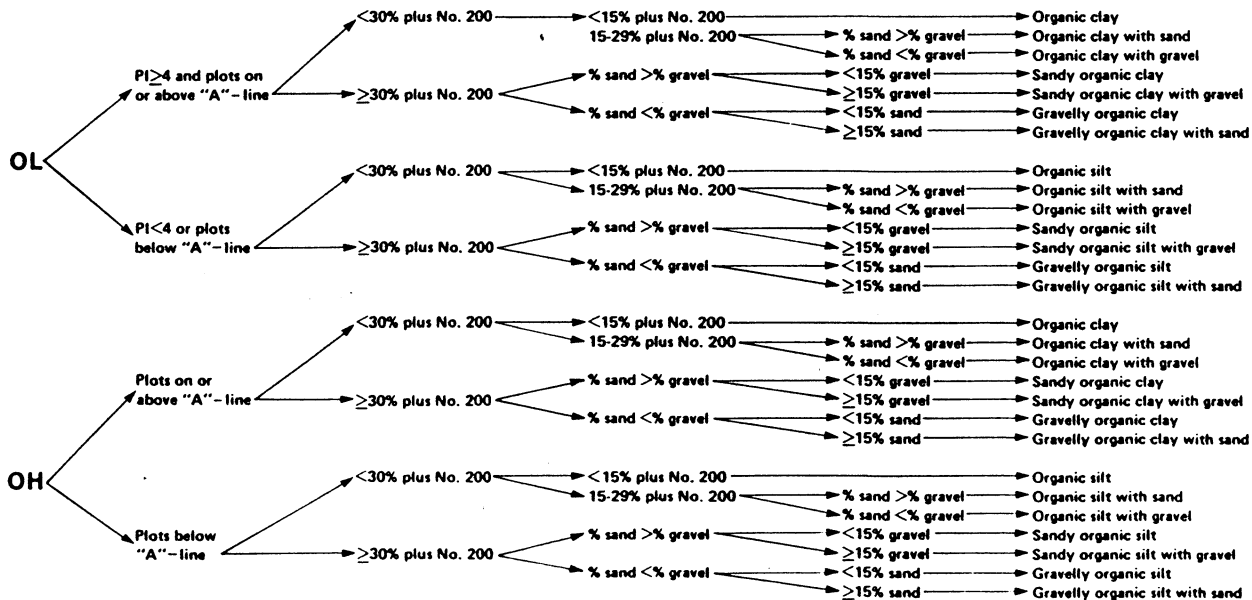
It is recommended that a site inspection, combined with consideration of the regional geology and climatic conditions be conducted. An evaluation of the investigation methods and development work done since the time of investigation should be done prior to interpreting the subsurface conditions for construction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



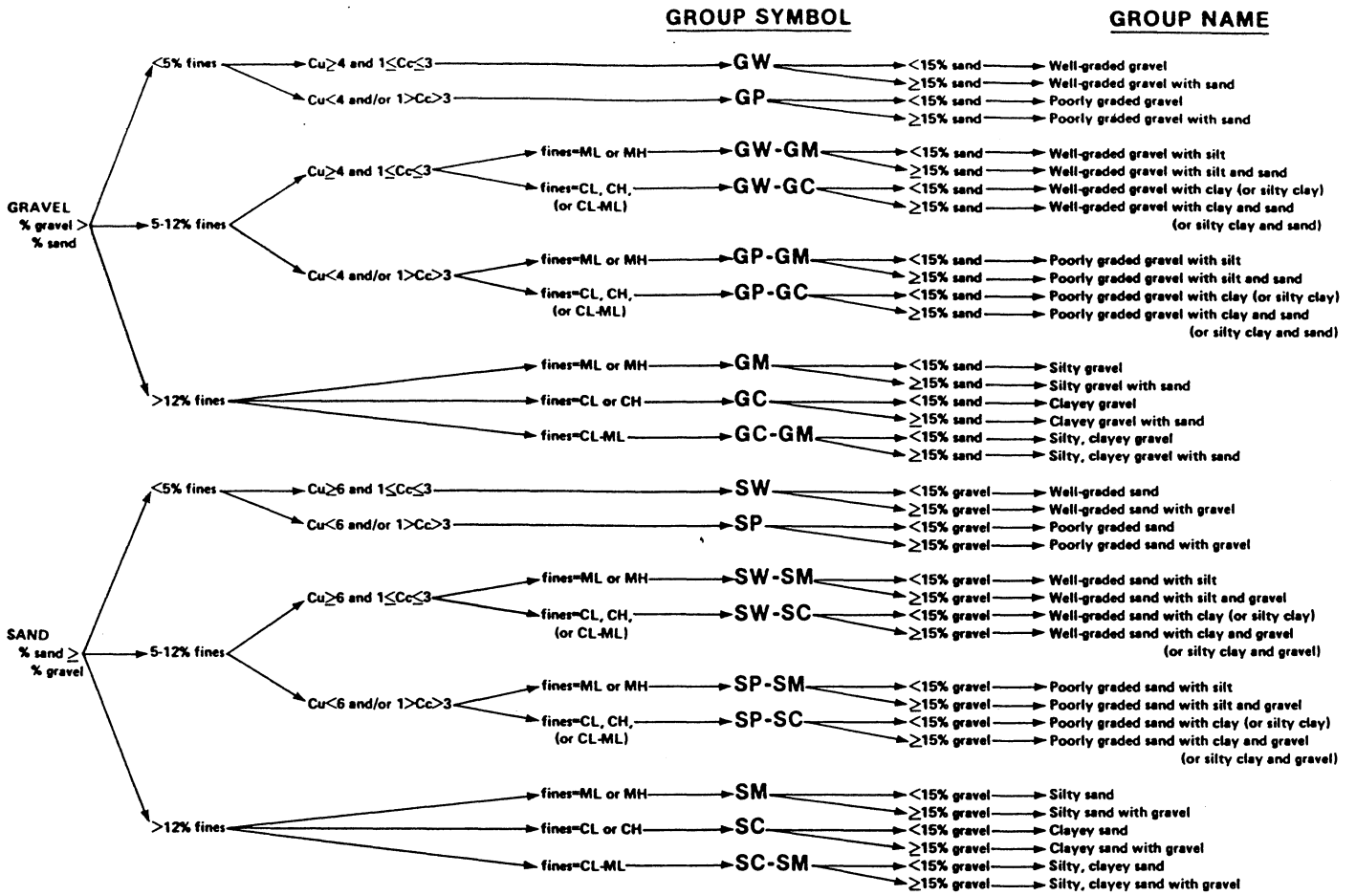
Flow chart for classifying fine-grained soil.

**GROUP SYMBOL**

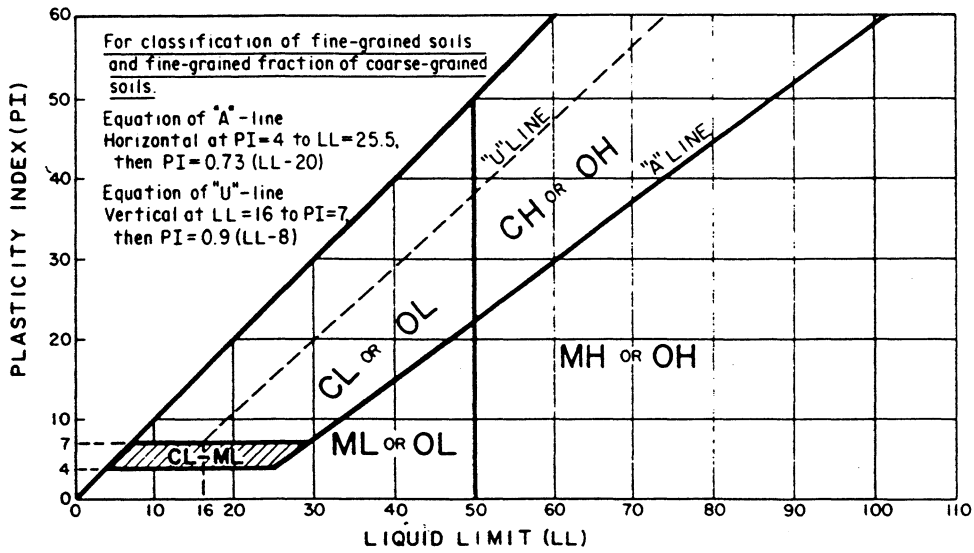
**GROUP NAME**



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

- a. Based on the material passing the 3-in (75-mm) sieve.
- b. If field sample contained cobbles and/or boulders, add "with cobbles and/or boulders" to group name.
- c. 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
- d. 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
- e.  $C_u = D_{60}/D_{10}$        $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$
- f. If soil contains  $\geq 15\%$  sand, add "with sand" to group name.
- g. If fines classify as CL-ML, use dual symbol GC-GM, SC-SM.
- h. If fines are organic, add "with organic fines" to group name.
- i. If soil contains  $\geq 15\%$  gravel, add "with gravel" to group name.
- j. If Atterberg limits plot in hatched area, soil is a CL-MH, silty clay.
- k. If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel" whichever is predominant.
- l. If soil contains  $> 30\%$  plus No. 200, predominantly sand, add "sandy" to group name.
- m. If soil contains  $\geq 30\%$  plus No. 200, predominantly gravel, add "gravelly" to group name.
- n. PI > 4 and plots on or above "A" line.
- o. PI < 4 or plots below "A" line.
- p. PI plots on or above "A" line.
- q. PI plots below "A" line.

*Soil classification chart*

# UNIFIED SOIL CLASSIFICATION†

MAJOR DIVISIONS		GROUP SYMBOLS	TYPICAL NAMES	CLASSIFICATION CRITERIA			
COARSE-GRAINED SOILS	More than 50% retained on No. 200 sieve*	GRAVELS 50% or more of coarse fraction retained on No. 4 sieve	CLEAN GRAVELS	GW	Well-graded gravels and gravel-sand mixtures, little or no fines	$C_u = D_{60}/D_{10}$ Greater than 4 $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ Between 1 and 3  Not meeting both criteria for GW	
			GRAVELS WITH FINES	GP	Poorly-graded gravels and gravel-sand mixtures, little or no fines		
		SANDS More than 50% of coarse fraction passes No. 4 sieve	CLEAN SANDS	SW	Well-graded sands and gravelly sands, little or no fines	$C_u = D_{60}/D_{10}$ Greater than 6 $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ Between 1 and 3  Not meeting both criteria for SW	
				SP	Poorly-graded sands and gravelly sands, little or no fines		
	SANDS WITH FINES		SM	Silty sands, sand-silt mixtures	Atterberg limits plot below 'A' line or plasticity index less than 4  Atterberg limits plot above 'A' line and plasticity index greater than 7		
			SC	Clayey sands, sand-clay mixtures			
	Classification on basis of percentage of fines GW, GP, SW, SP GM, GC, SM, SC Borderline classification requiring use of dual symbols				Atterberg limits plotting in hatched area are borderline classifications requiring use of dual symbols  Atterberg limits plotting in hatched area are borderline classifications requiring use of dual symbols		
	Less than 5% pass No. 200 sieve More than 12% pass No. 200 sieve 5% to 12% pass No. 200 sieve						
	FINE-GRAINED SOILS	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;"> <b>PLASTICITY CHART</b>                      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: <math>PI = 0.73(LL - 20)</math> </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				
HIGHLY ORGANIC SOILS		PT	Peat, muck and other highly organic soils	*Based on the material passing the 3 in. (75 mm) sieve †ASTM Designation D 2487, for identification procedure see D 2488			

## GROUND ICE DESCRIPTION

### ICE NOT VISIBLE

GROUP SYMBOLS	SYMBOLS	SUBGROUP DESCRIPTION	
N	Nf	Poorly-bonded or friable	
	Nbn	No excess ice, well-bonded	
	Nbe	Excess ice, well-bonded	

### VISIBLE ICE LESS THAN 50% BY VOLUME

GROUP SYMBOLS	SYMBOLS	SUBGROUP DESCRIPTION	
V	Vx	Individual ice crystals or inclusions	
	Vc	Ice coatings on particles	
	Vr	Random or irregularly oriented ice formations	
	Vs	Stratified or distinctly oriented ice formations	

### VISIBLE ICE GREATER THAN 50% BY VOLUME

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 checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80 PLASTIC      M.C.      LIQUID  ----- ----- -----  20 40 60 80	USC	◆ PERCENT SAND ◆ 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (m)
0.0	BOUNDARY LINES						0.0
	A solid line is used when a definite soil change is logged and a depth is known.						
1.0	A dashed line is used when a definite soil change is noted either by the field log or the sample test results and the depth of change is unknown.						1.0
2.0	A dotted line is used when a gradual or gradational change is noted by field notes and sample test results.						2.0
3.0							3.0
4.0							4.0
5.0							5.0
6.0							6.0
Government of Yukon Transportation Engineering				LOGGED BY:	COMPLETION DEPTH: 6.0 m		
				REVIEWED BY:	COMPLETE: / /		
				Fig. No:	Page 1 of 1		

GEOTECHNICAL INVESTIGATION  
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## **CENTRELINE TESTING**

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT	TEST HOLE NO: 339-115
ENGINEERING-CAPITAL		SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER		LOCATION: Sta. 1831+375 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 ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC MATERIAL -ash											0.0
1.0	-frozen with visible ice below 0.8m											1.0
2.0	SILTY SAND WITH GRAVEL (SM) -olive -frozen -rougher drilling											2.0
3.0	END HOLE at 3.0m -refusal -300mm spruce and poplar cover	<input checked="" type="checkbox"/>	112	●	▲		SM	▣	◆	■		3.0
4.0												4.0
5.0												5.0
6.0												6.0

Government of Yukon Transportation Engineering	LOGGED BY: KJ	COMPLETION DEPTH: 3.0 m
	REVIEWED BY:	COMPLETE: 94/10/29
	Fig. No:	Page 1 of 1

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 -some ash										0.0
1.0	-frozen below 1.2m										1.0
2.0	SILTY SAND WITH GRAVEL (SM) -olive -frozen -rough drilling										2.0
3.0		<input checked="" type="checkbox"/>	110	●▲			SM	■◆			3.0
3.5	-ice lenses below 3.2m -easier drilling below 3.2m	<input checked="" type="checkbox"/>	111	●▲			SM	■◆			3.5
4.0	END HOLE at 3.5m -250mm spruce cover										4.0
5.0											5.0
6.0											6.0

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-113
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1831+575 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	60	80	
0.0	ORGANIC ASH											0.0	
1.0	-frozen with visible ice below 1.1m											1.0	
3.0	SILTY SAND (SM) -frozen with estimated 15% ice -organics	<input checked="" type="checkbox"/>	108	▲	●		SM	◆				3.0	
4.0	ORGANIC MATERIAL -frozen											4.0	
4.5	SILTY GRAVEL WITH SAND (GM) -gray -frozen	<input checked="" type="checkbox"/>	109	■			GM	◆	■			4.5	
5.0	END HOLE at 4.5m -boulders on surface nearby											5.0	
6.0												6.0	

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	REVIEWED BY:	COMPLETE: 94/10/29
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-112
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1831+675	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 -wet										0.0	
	ASH											
1.0	ORGANIC MATERIAL -saturated -some ash										1.0	
2.0	-frozen below 1.8m										2.0	
3.0	SILTY SAND (SM) -gray -frozen -ash	<input checked="" type="checkbox"/>	107	▲	●		SM	◆	■		3.0	
4.0	END HOLE at 3.2m -in existing ditch										4.0	
5.0											5.0	
6.0											6.0	

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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 3.2 m  
COMPLETE: 94/10/29

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-111
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1831+775	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	ASH										0.0	
	ORGANIC MATERIAL -some ash											
1.0	-frozen below 0.8m										1.0	
2.0	-visible ice below 2.0m -smooth drilling below 2.0m										2.0	
3.0											3.0	
4.0	SILTY SAND (SM) -brown olive -ash -slower drilling										4.0	
4.5	END HOLE at 4.5m -100mm spruce cover	<input checked="" type="checkbox"/>	106	▲	●		SM	◆	■		4.5	
5.0											5.0	
6.0											6.0	

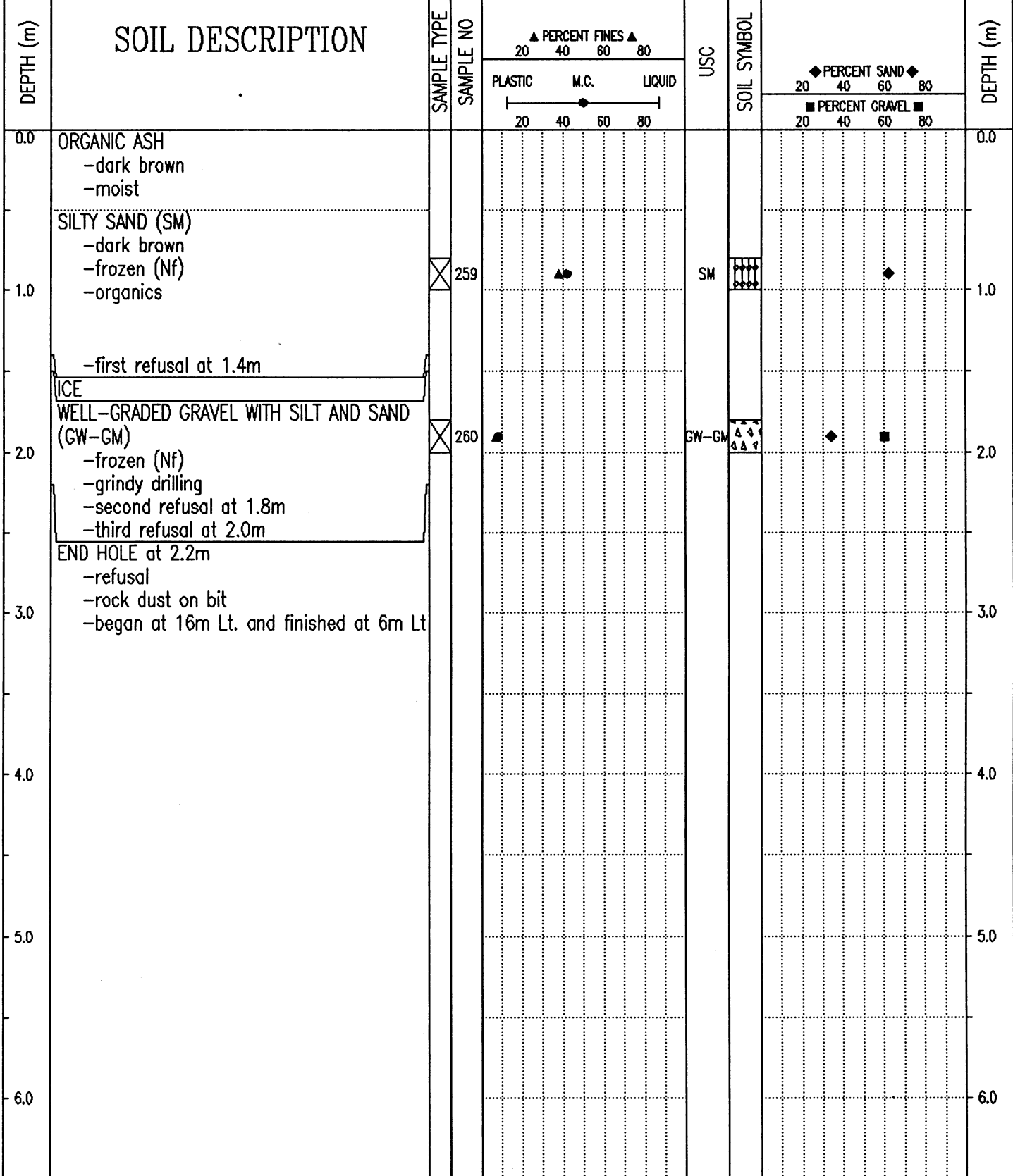
Government of Yukon Transportation Engineering	LOGGED BY: KJ	COMPLETION DEPTH: 4.5 m
	REVIEWED BY:	COMPLETE: 94/10/29
	Fig. No:	Page 1 of 1

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										0.0
	ASH										
1.0	ORGANIC MATERIAL -frozen with visible ice -some ash										1.0
2.0	-trace of brown sand below 2.0m										2.0
3.0			104								3.0
4.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen -angular -rough drilling		105				SM				4.0
	END HOLE at 3.4m -refusal -150mm spruce cover										
5.0											5.0
6.0											6.0

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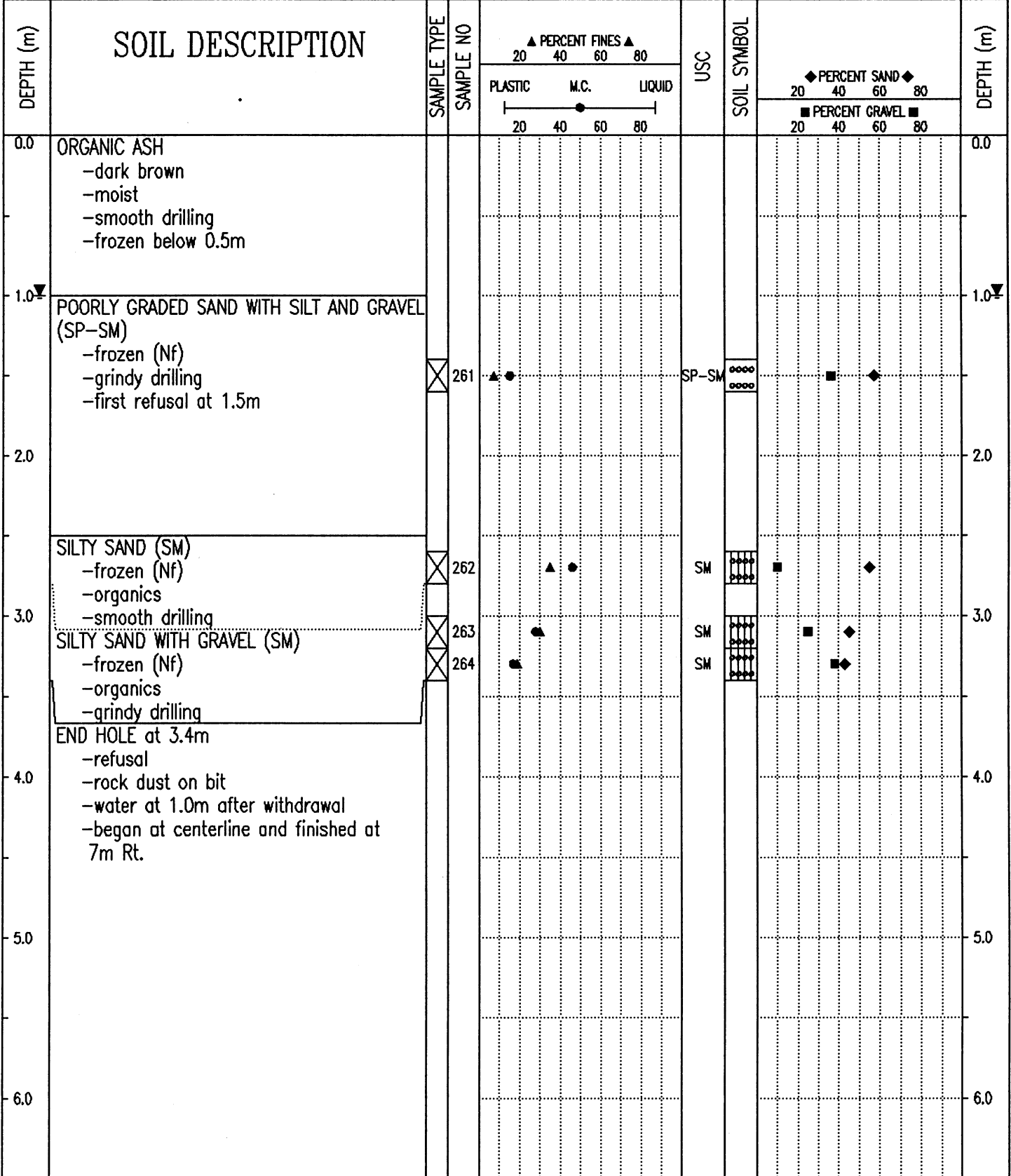
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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LOGGED BY: CC	COMPLETION DEPTH: 2.2 m
REVIEWED BY:	COMPLETE: 95/05/27
Fig. No:	Page 1 of 1

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

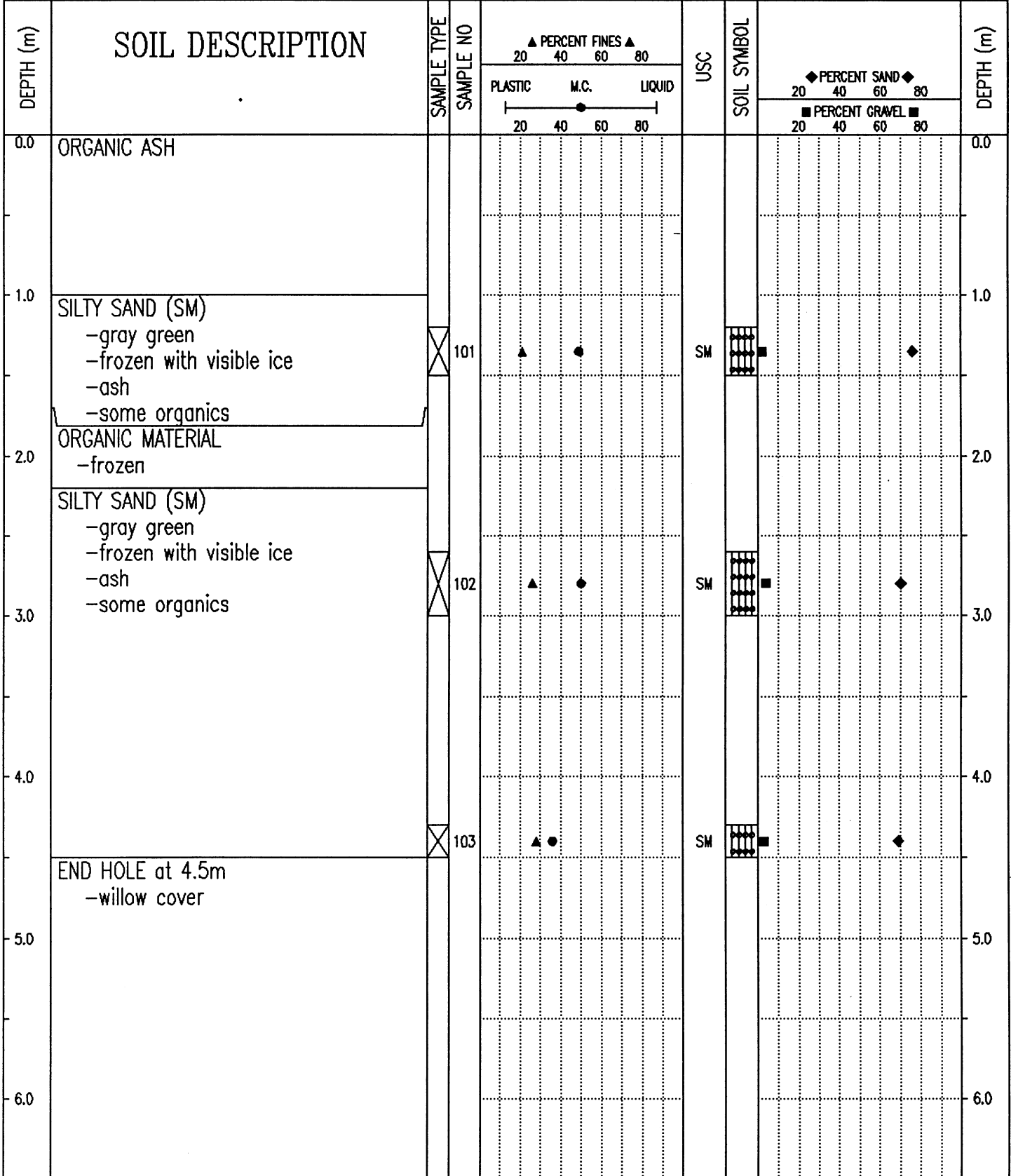


SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

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
1.0	POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM) -frozen (Nf) -grindy drilling	<input checked="" type="checkbox"/>	265	▲			GP-GM	◆	■		1.0
2.0	SILTY SAND (SM) -dark brown -frozen (Nf) -organic -smooth drilling	<input checked="" type="checkbox"/>	266		●		SM			◆	2.0
END HOLE at 2.0m -rock dust on bit											
3.0											3.0
4.0											4.0
5.0											5.0
6.0											6.0

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



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LOGGED BY: KJ	COMPLETION DEPTH: 4.5 m
REVIEWED BY:	COMPLETE: 94/10/28
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SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 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 ASH  -frozen below 0.6m							0.0
1.0	ORGANIC MATERIAL -frozen							1.0
2.0	ASH -frozen -trace of sand -organics							2.0
3.0	ORGANIC MATERIAL -frozen with visible ice -trace of silt							3.0
4.0								4.0
5.0	END HOLE at 4.5m -150mm spruce cover	<input checked="" type="checkbox"/>	100					5.0
6.0								6.0

94/12/08 05:32PM

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-107
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1832+200	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											0.0
	ASH											
	-frozen below 0.6m											
1.0	ORGANIC MATERIAL											1.0
	-frozen with visible ice											
2.0	ORGANIC ICE WITH ASH											2.0
	-estimate 50% ice											
	-easy drilling											
3.0	ORGANIC MATERIAL											3.0
	-frozen with visible ice											
4.0	SILTY GRAVEL WITH SAND (GM)											4.0
	-brown											
	-frozen											
	-rougher drilling											
	END HOLE at 4.5m											
	-150mm spruce cover											
5.0			99									5.0
6.0												6.0

Government of Yukon Transportation Engineering	LOGGED BY: KJ	COMPLETION DEPTH: 4.5 m
	REVIEWED BY:	COMPLETE: 94/10/28
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-106
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1832+300	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											0.0
1.0	-frozen with visible ice below 1.0m											1.0
2.0												2.0
3.0	-easier drilling below 2.5m											3.0
3.8	SILTY SAND (SM) -olive -frozen		98				SM					3.8
4.0	END HOLE at 3.8m -refusal -150mm spruce cover											4.0
5.0												5.0
6.0												6.0

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LOGGED BY: KJ	COMPLETION DEPTH: 3.8 m
REVIEWED BY:	COMPLETE: 94/10/28
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-105
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1832+400	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 ASH											0.0
1.0	-frozen below 0.8m											1.0
2.0	SAND -brown -frozen											2.0
2.0	ORGANIC MATERIAL -frozen with visible ice											2.0
3.0												3.0
4.0												4.0
5.0	END HOLE at 4.5m -200mm spruce cover											5.0
6.0												6.0

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LOGGED BY: KJ

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 4.5 m

COMPLETE: 94/10/28

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-104
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1832+500	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	ASH -saturated -water at 0.3m											0.0	
1.0	-frozen below 1.0m											1.0	
2.0	ORGANIC MATERIAL -frozen											2.0	
3.0												3.0	
4.0												4.0	
5.0	END HOLE at 4.5m -100mm spruce cover											5.0	
6.0												6.0	

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	REVIEWED BY:	COMPLETE: 94/10/28
	Fig. No:	Page 1 of 1

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 ASH -saturated										0.0
1.0	ORGANIC MATERIAL -frozen -some ash -slow drilling										1.0
2.0	SILTY SAND (SM) -frozen		96				SM				2.0
3.0											3.0
4.0	-green below 3.4m										4.0
5.0	END HOLE at 4.5m -willow and 50mm spruce cover		97				SM				5.0
6.0											6.0

94/12/08 04:53PM

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-102
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1832+700	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 -some ash											0.0
1.0	-frozen below 0.9m											1.0
	ASH -frozen											
2.0	ORGANIC MATERIAL -frozen with visible ice -some ash											2.0
3.0	-less ice below 3.0m -slower drilling below 3.0m											3.0
4.0												4.0
5.0	END HOLE at 4.5m -200mm spruce cover											5.0
6.0												6.0

Government of Yukon Transportation Engineering	LOGGED BY: KJ	COMPLETION DEPTH: 4.5 m
	REVIEWED BY:	COMPLETE: 94/10/28
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SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 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 ASH							0.0
1.0	-frozen below 1.0m							1.0
2.0	ASH -frozen -slow drilling							2.0
3.0	ORGANIC MATERIAL -frozen -some ash							3.0
4.0								4.0
5.0	END HOLE at 4.5m -150mm spruce cover							5.0
6.0								6.0

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-100
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1832+900	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											0.0
1.0	-frozen with visible ice below 1.0m -easy drilling below 1.0m											1.0
2.0	ASH -frozen											2.0
3.0	ORGANIC ASH -frozen with visible ice											3.0
4.0												4.0
5.0	END HOLE at 4.5m -125mm spruce cover											5.0
6.0												6.0

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LOGGED BY: KJ	COMPLETION DEPTH: 4.5 m
REVIEWED BY:	COMPLETE: 94/10/28
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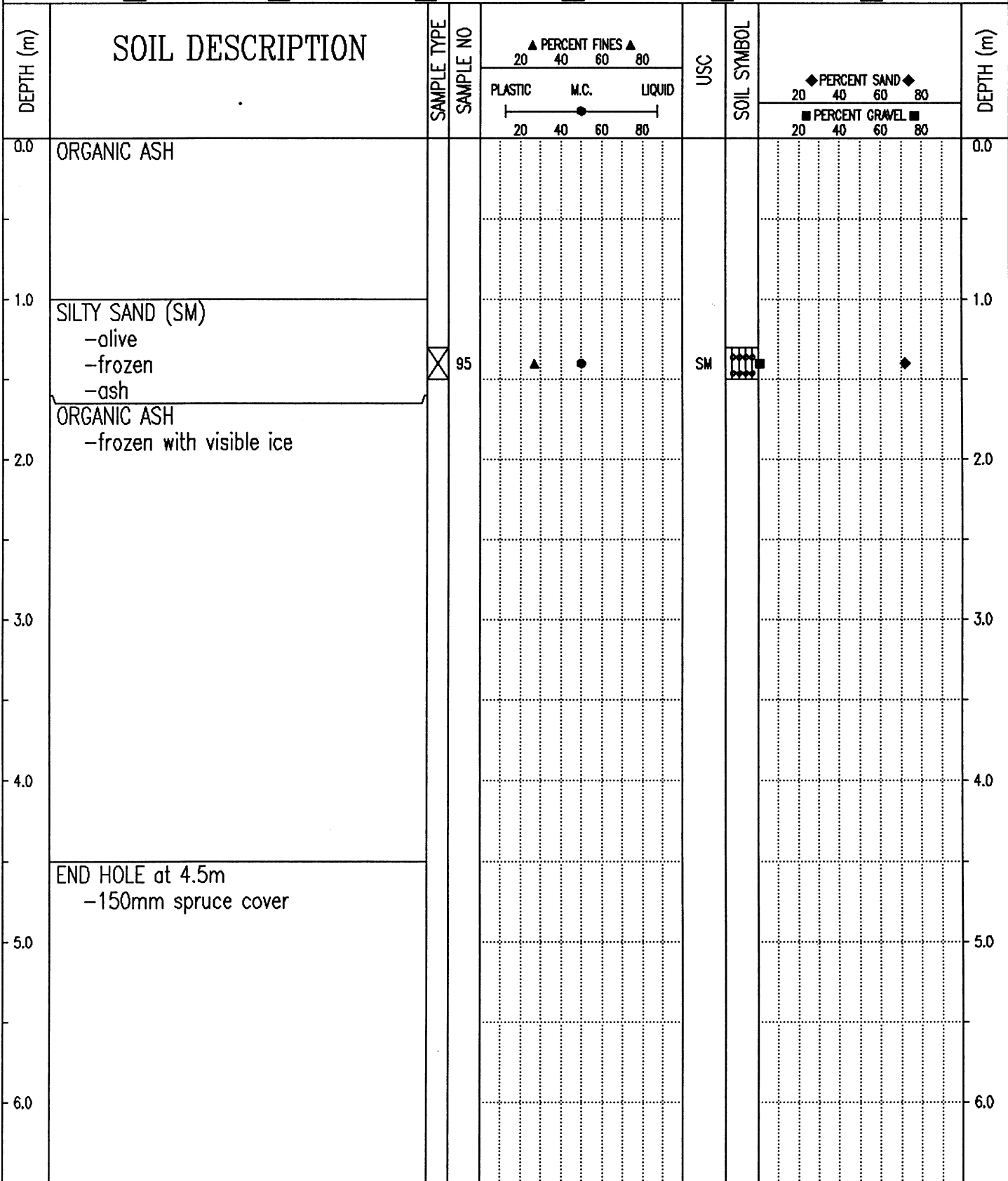
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ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1833+000	ELEVATION: 0.00 (m)

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 ASH										0.0	
1.0	-frozen below 0.7m										1.0	
2.0	ASH -frozen										2.0	
3.0	ORGANIC MATERIAL -frozen with visible ice										3.0	
4.0											4.0	
5.0	END HOLE at 4.5m -100mm spruce cover										5.0	
6.0											6.0	

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	REVIEWED BY:	COMPLETE: 94/10/28
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-98
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1833+100	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: 94/10/28
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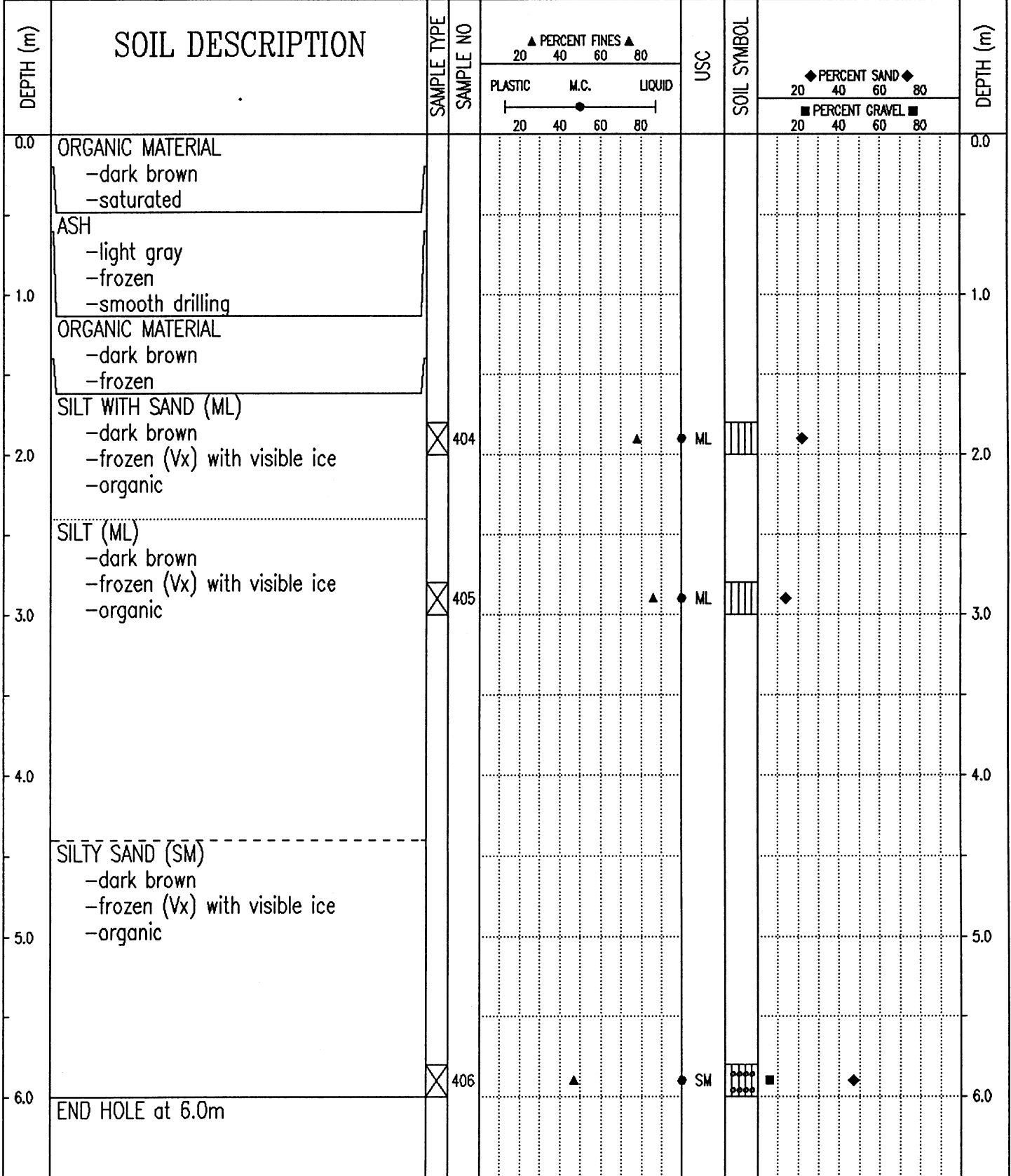
SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-97
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1833+200	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			PERCENT GRAVEL ■			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	80	20	40	
0.0	ORGANIC ASH -saturated													0.0	
1.0														1.0	
2.0	-frozen below 1.5m													2.0	
3.0	SILTY SAND (SM) -olive -frozen with visible ice -organics	<input checked="" type="checkbox"/>	94	▲	●		SM	◆						3.0	
4.0	ORGANIC MATERIAL -frozen with visible ice													4.0	
5.0	END HOLE at 4.5m -willow cover -water on surface													5.0	
6.0														6.0	

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LOGGED BY: KJ	COMPLETION DEPTH: 4.5 m
REVIEWED BY:	COMPLETE: 94/10/28
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SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

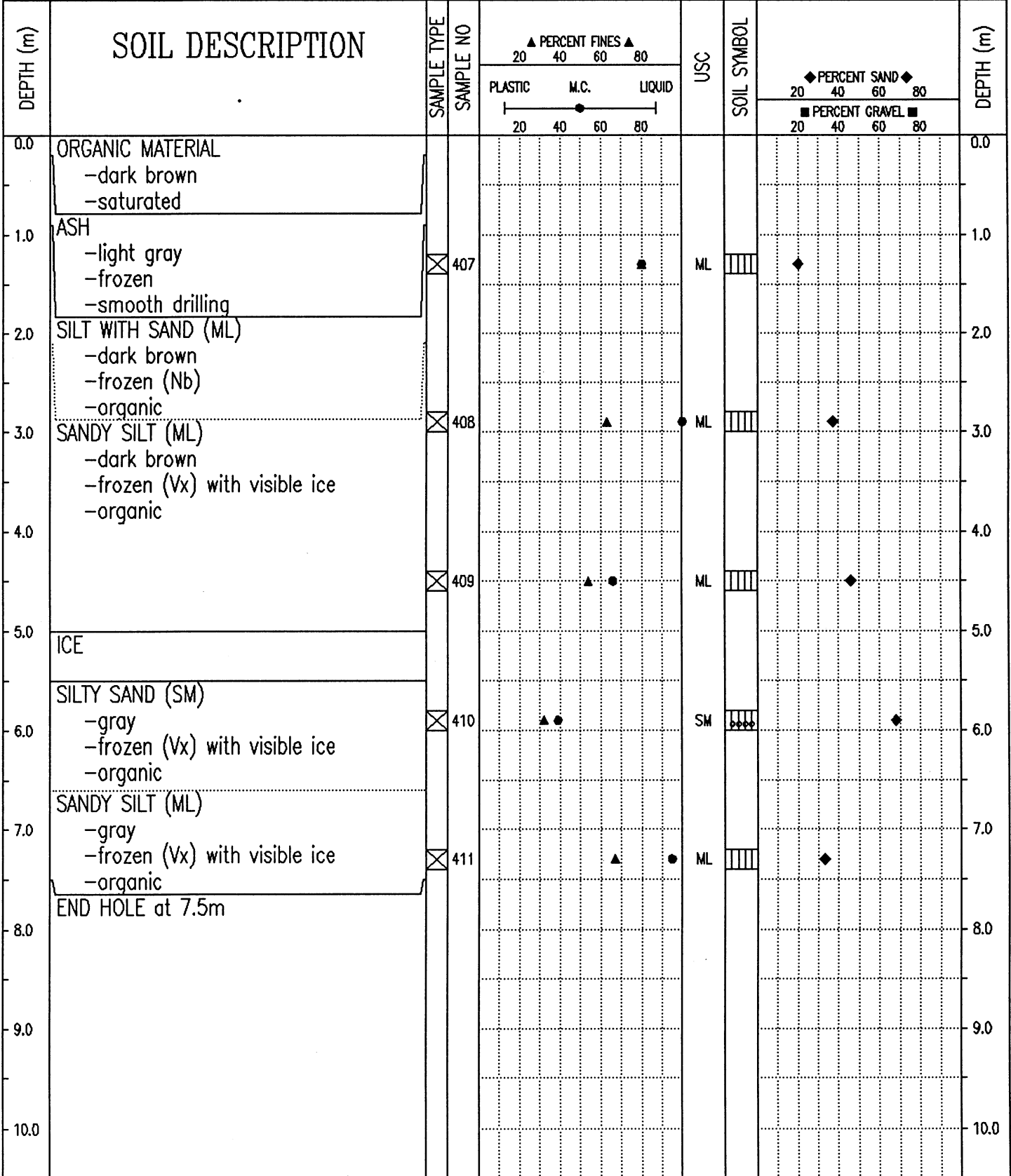


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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 6.0 m  
COMPLETE: 95/06/08

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

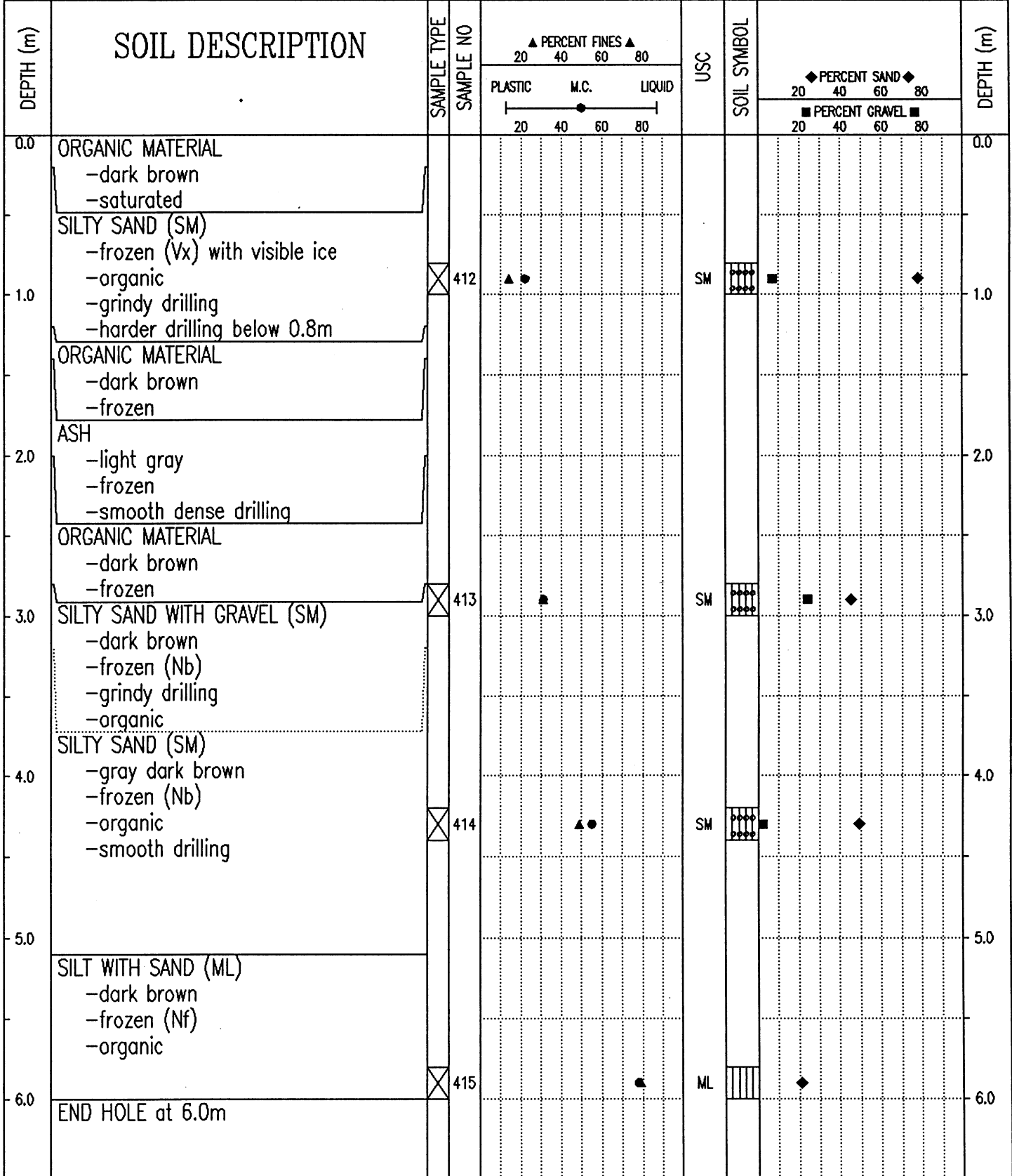


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LOGGED BY: CC  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 7.5 m  
COMPLETE: 95/06/08

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



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LOGGED BY: CC	COMPLETION DEPTH: 6.0 m
REVIEWED BY:	COMPLETE: 95/06/08
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-96
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1833+318 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	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				20	40	60			80	20		
0.0	ORGANIC MATERIAL											0.0
1.0	ORGANIC ASH -frozen ICE											1.0
2.0	ASH -frozen with visible ice ICE											2.0
3.0												3.0
4.0												4.0
5.0												5.0
6.0												6.0
7.0												7.0
8.0	ORGANIC MATERIAL -frozen with visible ice											8.0
9.0	END HOLE at 8.5m -350mm spruce cover											9.0
10.0												10.0

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	REVIEWED BY:	COMPLETE: 94/10/28
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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)
				20	40	60			80	20	40	
0.0	ASH -organics											0.0
1.0												1.0
2.0	ORGANIC MATERIAL -frozen											2.0
3.0	-ice lenses below 2.2m											3.0
4.0	-no ice below 2.8m											4.0
5.0	ASH -ice -organics											5.0
6.0	END HOLE at 4.5m -300mm spruce cover											6.0

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-94
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1833+450	ELEVATION: 0.00 (m)

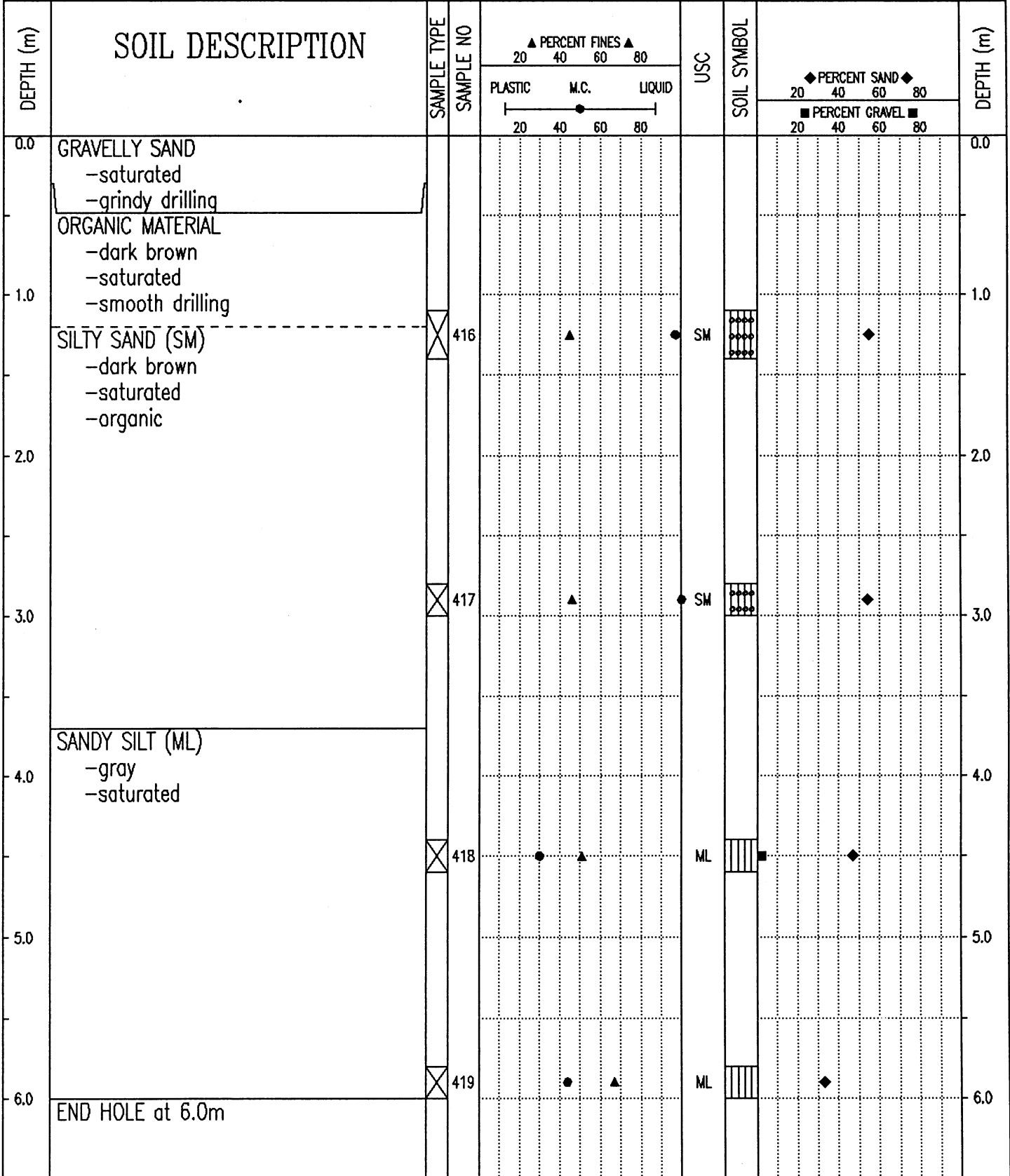
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

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										0.0	
1.0	ICE										1.0	
1.0	ORGANIC ASH -frozen										1.0	
2.0											2.0	
3.0	SANDY SILT -olive -frozen										3.0	
3.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen	<input checked="" type="checkbox"/>	93	▲	●		SM	■	◆		3.0	
4.0	ORGANIC ASH -frozen -slow drilling										4.0	
5.0	END HOLE at 4.5m -200mm spruce cover										5.0	
6.0											6.0	

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LOGGED BY: KJ	COMPLETION DEPTH: 4.5 m
REVIEWED BY:	COMPLETE: 94/10/28
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SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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LOGGED BY: CC	COMPLETION DEPTH: 6.0 m
REVIEWED BY:	COMPLETE: 95/06/08
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 364-170
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: YTG UNIT #36-003	LOCATION: Sta. 1833+550	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 SAND -smooth drilling										0.0	
1.0	ASH -light gray -saturated -water at 1.0m										1.0	
2.0	ORGANIC MATERIAL -dark brown -saturated										2.0	
3.0	SILTY GRAVEL WITH SAND (GM) -dark brown -saturated	<input checked="" type="checkbox"/>	420	▲	●		GM	◆		■	3.0	
4.0	-gray below 3.8m -grindy drilling below 3.8m										4.0	
5.0											5.0	
6.0	END HOLE at 6.0m	<input checked="" type="checkbox"/>	421	▲			GM	◆		■	6.0	

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LOGGED BY: CC	COMPLETION DEPTH: 6.0 m
REVIEWED BY:	COMPLETE: 95/06/08
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-93
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1833+550	ELEVATION: 0.00 (m)

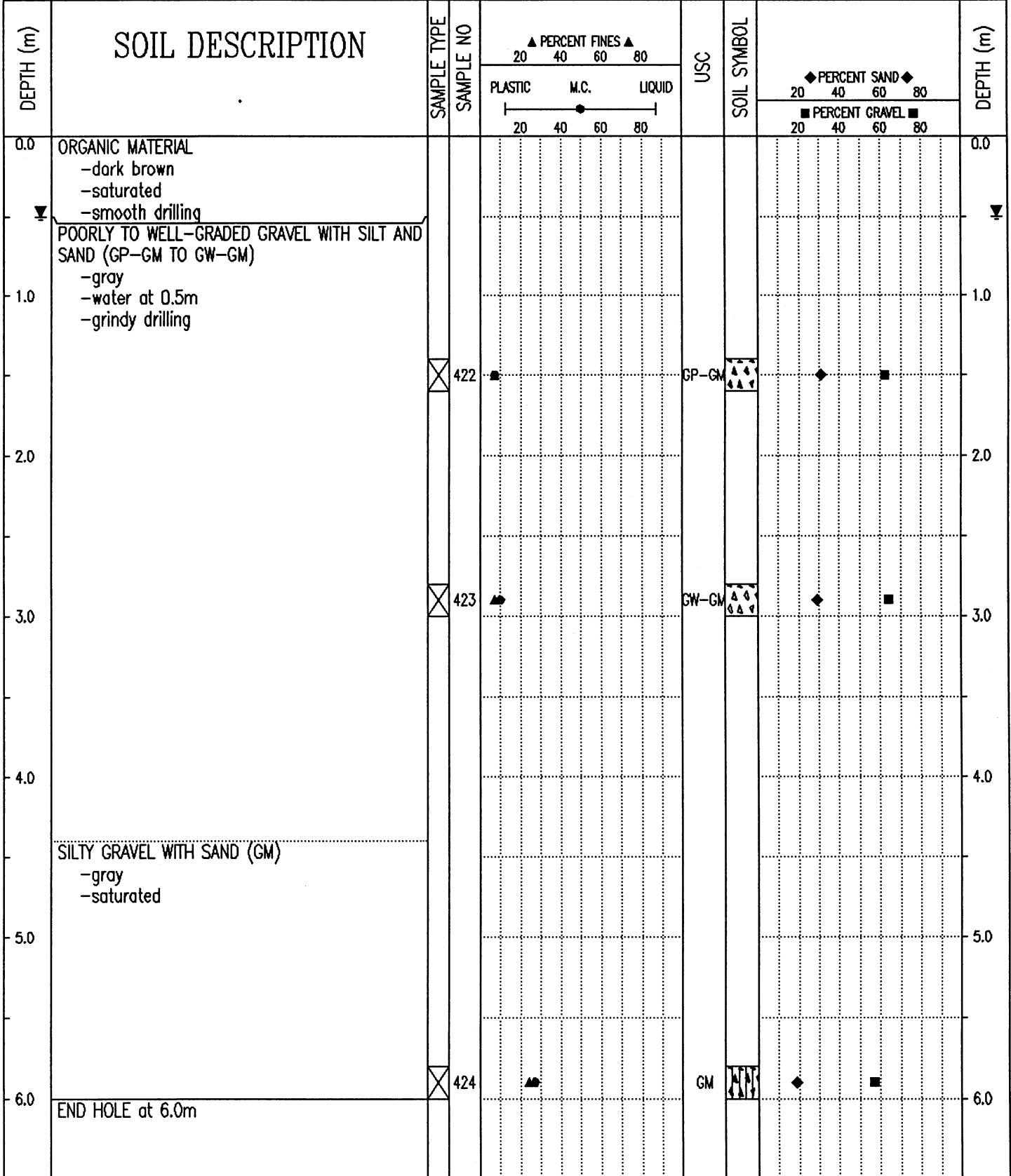
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

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
1.0	-water at 1.0m -trace of gravel below 1.0m											1.0
2.0	-no gravel below 2.0m											2.0
3.0												3.0
4.0												4.0
4.5	END HOLE at 4.5m -running water on surface -willow cover	<input checked="" type="checkbox"/>	92									4.5
5.0												5.0
6.0												6.0

Government of Yukon Transportation Engineering	LOGGED BY: KJ	COMPLETION DEPTH: 4.5 m
	REVIEWED BY:	COMPLETE: 94/10/28
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 364-171
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: YTG UNIT #36-003	LOCATION: Sta. 1833+557 o/s 14m 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:	COMPLETE: 95/06/08
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-92
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1833+650	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											0.0
0.0 - 1.0	ORGANIC ASH											1.0
1.0 - 2.0	-frozen below 1.2m											2.0
2.0 - 4.5	SILT WITH SAND (ML) -frozen with visible ice -very organic -smooth easy drilling											2.0 - 4.5
4.5	END HOLE at 4.5m -willow and spruce cover	<input checked="" type="checkbox"/>	91				ML					4.5

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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 94/10/28

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-91
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1833+740	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 SILTY SAND (SM) -brown -saturated											0.0
1.0												1.0
2.0			90	▲	●		SM	◆		■		2.0
3.0	ORGANIC MATERIAL -frozen -some ash											3.0
4.0												4.0
5.0	END HOLE at 4.5											5.0
6.0												6.0

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LOGGED BY: KJ	COMPLETION DEPTH: 4.5 m
REVIEWED BY:	COMPLETE: 94/10/28
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-90
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1833+800	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										0.0
	ORGANIC ASH										
1.0	-frozen below 0.8m										1.0
	-estimate 20% ice below 1.5m										
2.0											2.0
	-less ice below 2.6m										
3.0											3.0
4.0	WELL-GRADED SAND WITH SILT AND GRAVEL (SW-SM)										4.0
	-brown		89	▲	●		SW-SM	◆	■		
	-frozen										
	END HOLE at 4.5m										
	-250mm spruce cover										
5.0											5.0
6.0											6.0

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LOGGED BY: KJ  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 94/10/28

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-89
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 992-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1833+900 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 ASH											0.0
	ASHY ORGANIC MATERIAL											
1.0	ORGANIC MATERIAL -frozen with visible ice											1.0
2.0												2.0
3.0	SILTY GRAVEL WITH SAND (GM) -olive -frozen with visible ice	<input checked="" type="checkbox"/>	87	▲	●		GM	◆	■			3.0
	ORGANIC MATERIAL -frozen with visible ice											
4.0		<input checked="" type="checkbox"/>	88									4.0
5.0	END HOLE at 4.5m -150mm spruce cover											5.0
6.0												6.0

94/12/08 04:28PM

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 322-03
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
BACKHOE: CAT 235	LOCATION: See Plan	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											0.0
	VOLCANIC ASH											
1.0	END HOLE at 0.9m -refusal											1.0
2.0												2.0
3.0												3.0
4.0												4.0
5.0												5.0
6.0												6.0

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LOGGED BY: TF	COMPLETION DEPTH: 0.9 m
REVIEWED BY:	COMPLETE: 94/06/25
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 322-02
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
BACKHOE: CAT 235	LOCATION: See Plan	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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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											0.0
	VOLCANIC ASH											
1.0	END HOLE at 0.9m -refusal											1.0
2.0												2.0
3.0												3.0
4.0												4.0
5.0												5.0
6.0												6.0

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LOGGED BY: TF

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 0.9 m

COMPLETE: 94/06/25

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SUBSURFACE EXPLORATION AND TEST REPORT      SHAKWAK PROJECT      TEST HOLE NO: 339-88

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

DRILL: B40L 150mm SOLID STEM AUGER      LOCATION: Sta. 1834+000 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											0.0
	ORGANIC ASH											
1.0												1.0
2.0	END HOLE at 1.2m -refusal -100mm spruce cover											2.0
3.0												3.0
4.0												4.0
5.0												5.0
6.0												6.0

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REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 1.2 m

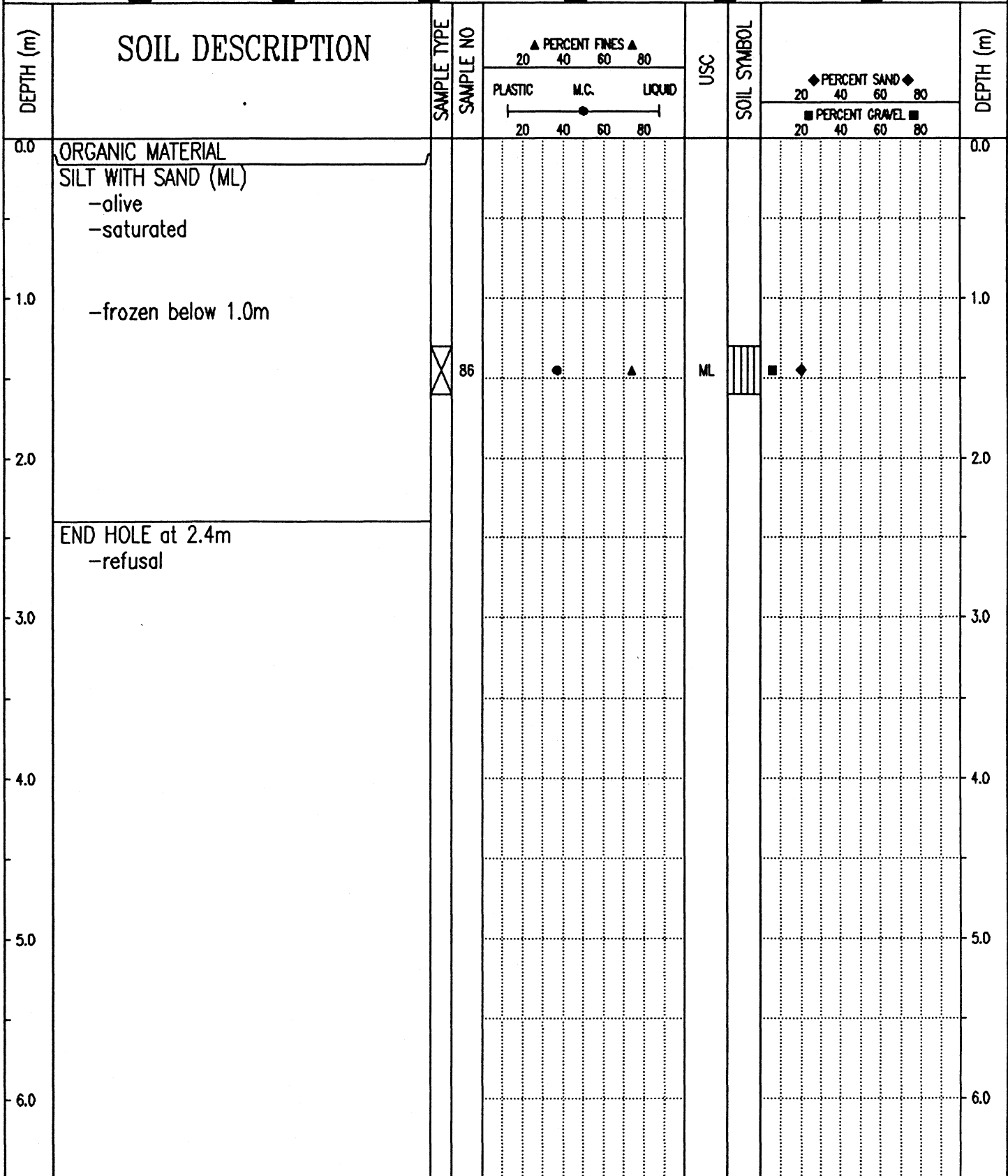
COMPLETE: 94/10/28

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

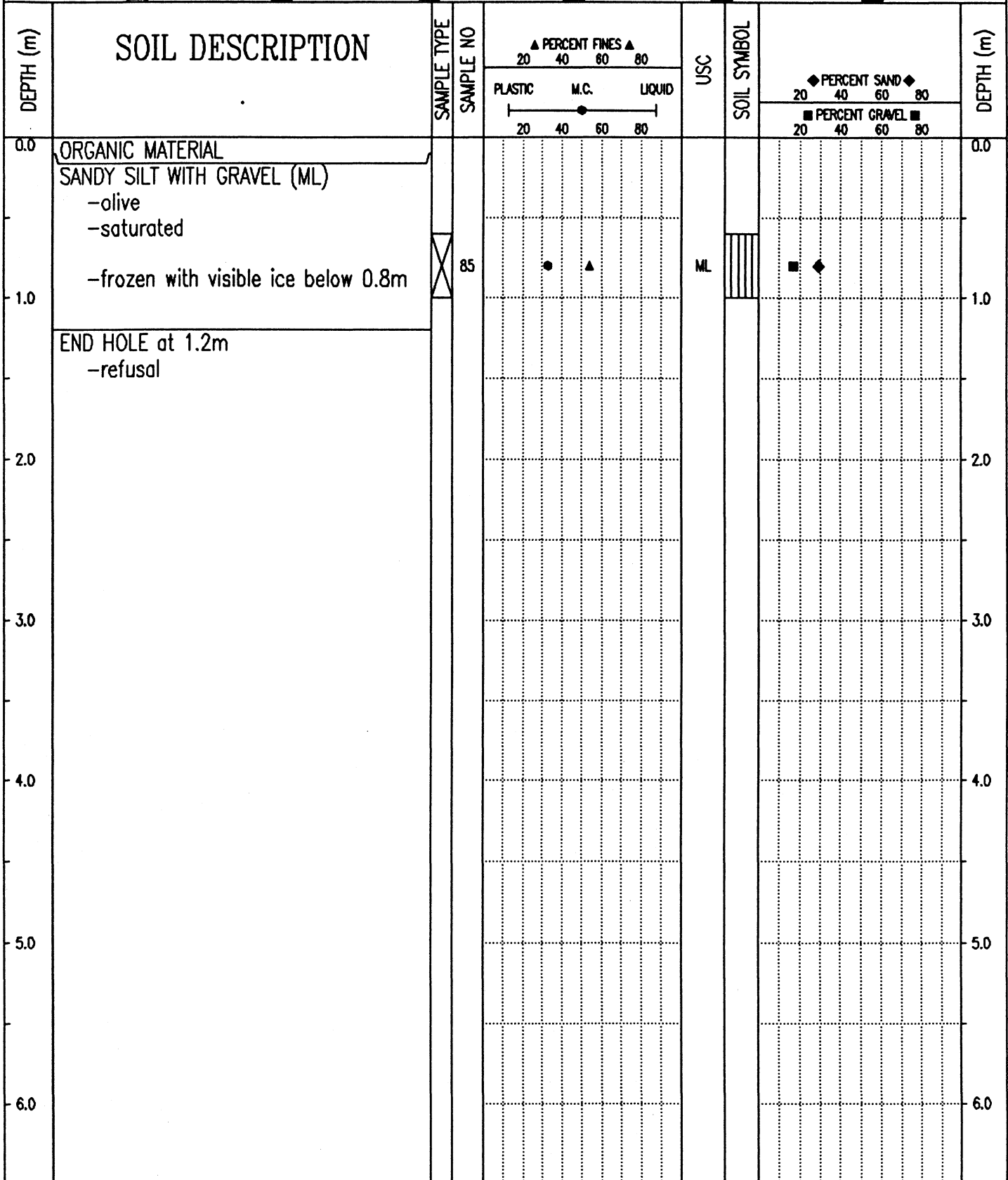
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC MATERIAL										0.0
	VOLCANIC ASH										
1.0	SILT AND PEBBLES -frozen										1.0
2.0	END HOLE at 1.5m -refusal										2.0
3.0											3.0
4.0											4.0
5.0											5.0
6.0											6.0

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT	TEST HOLE NO: 339-87
ENGINEERING-CAPITAL		SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER		LOCATION: Sta. 1834+025 o/s 8m Rt.	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
			<input type="checkbox"/> BULK
			<input type="checkbox"/> TUBE
			<input type="checkbox"/> CORE



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	REVIEWED BY:	COMPLETE: 94/10/27
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-86
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1834+040	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: 94/10/27
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 322-04
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
BACKHOE: CAT 235	LOCATION: See Plan	ELEVATION: 0.00 (m)

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

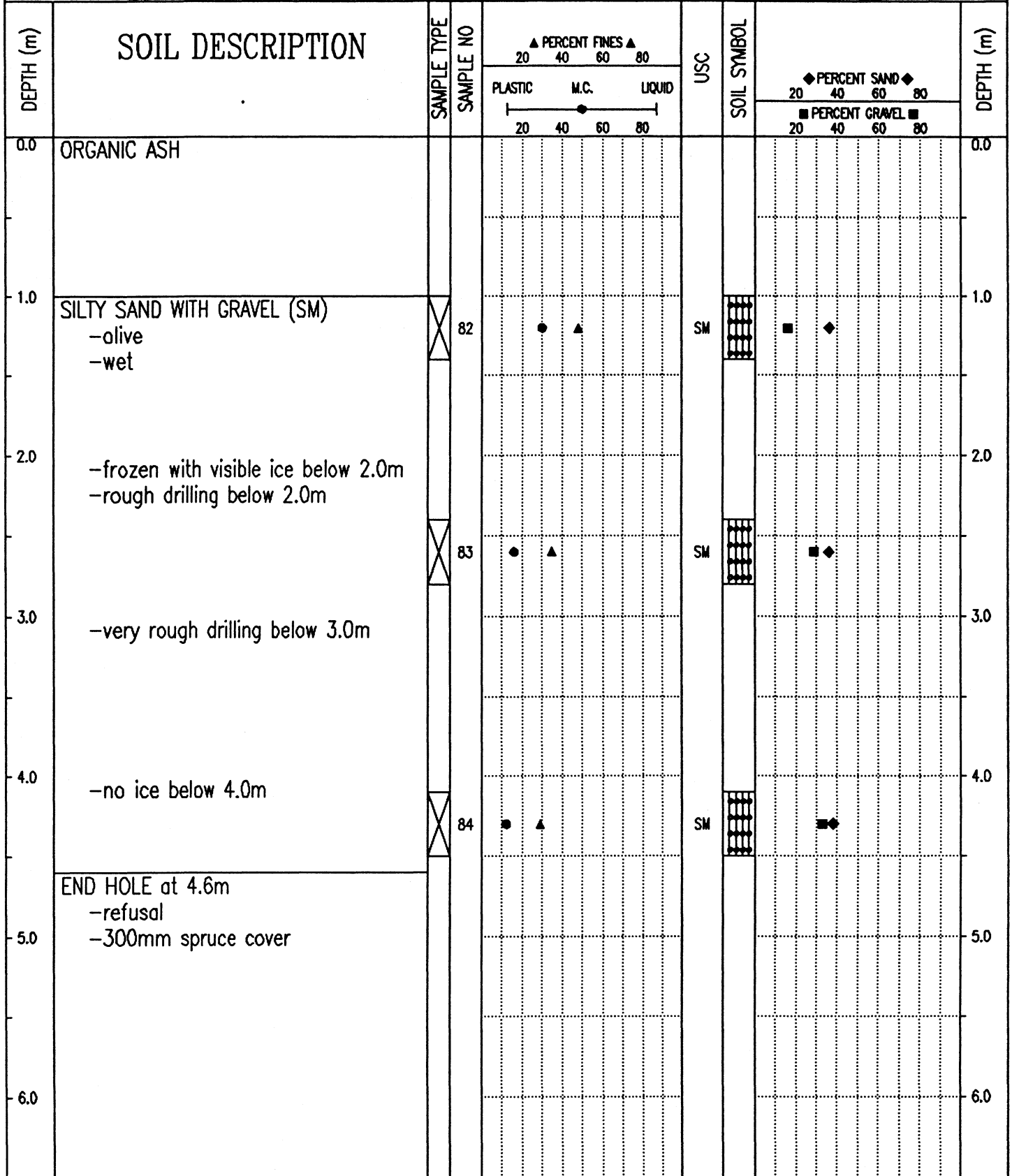
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				20	40	60			80	20		
0.0	ORGANIC MATERIAL											0.0
	VOLCANIC ASH											
1.0	END HOLE at 0.55m -refusal											1.0
2.0												2.0
3.0												3.0
4.0												4.0
5.0												5.0
6.0												6.0

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LOGGED BY: TF  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 0.6 m  
COMPLETE: 94/06/25

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-85
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1834+100	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		



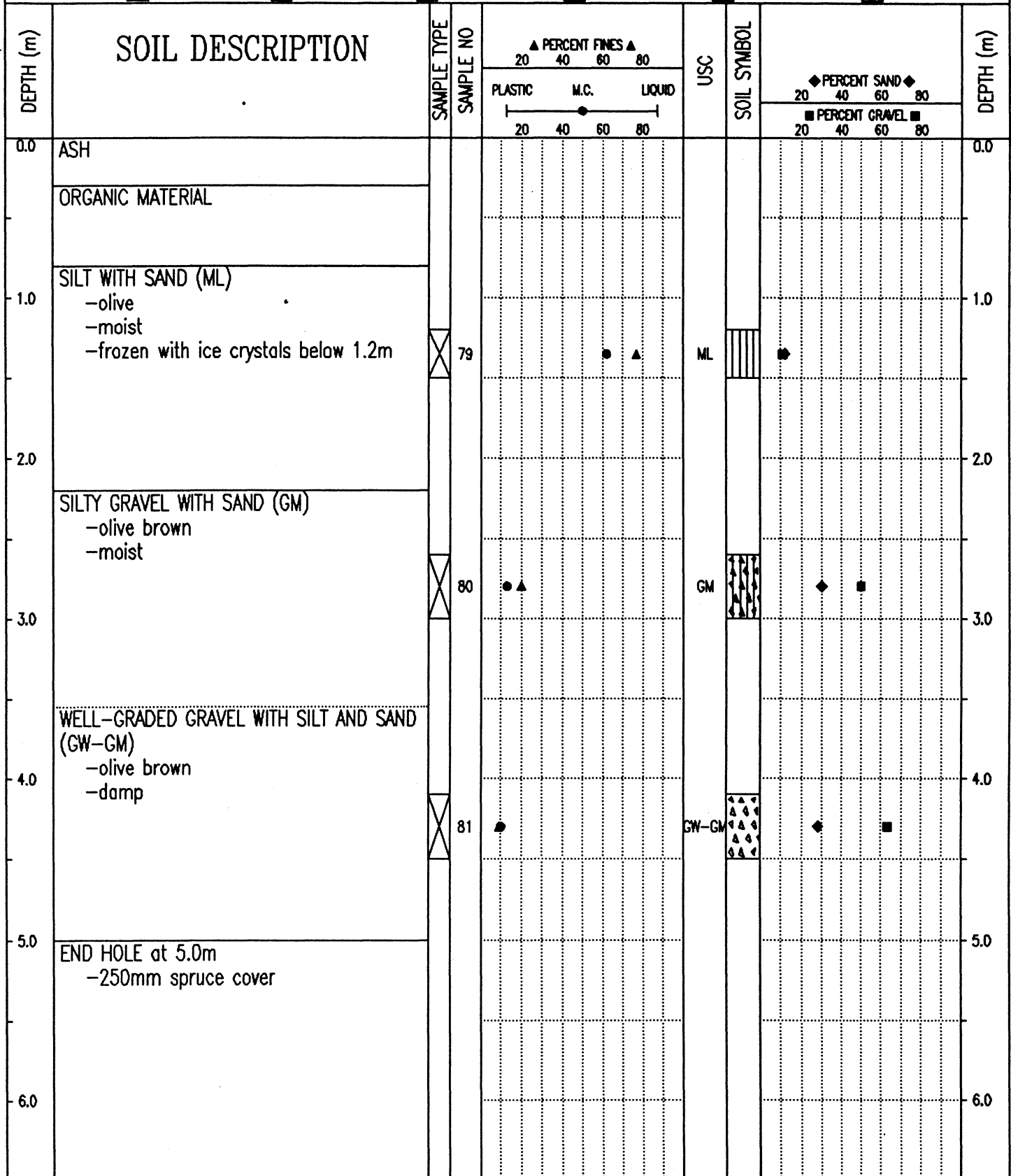
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Transportation Engineering

LOGGED BY: KJ  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.6 m  
COMPLETE: 94/10/27

94/12/08 04:18PM

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-84
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1834+225 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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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 94/10/27

SUBSURFACE EXPLORATION AND TEST REPORT      SHAKWAK PROJECT      TEST HOLE NO: 339-83

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

DRILL: B40L 150mm SOLID STEM AUGER      LOCATION: Sta. 1834+375 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			20	40	
0.0	ORGANIC MATERIAL -some ash									0.0	
1.0	-frozen with estimated 10% ice									1.0	
2.0	SILTY SAND WITH GRAVEL (SM) -olive -frozen -tough drilling									2.0	
3.0		<input checked="" type="checkbox"/>	77	●	▲		SM	■		3.0	
4.0	SILTY GRAVEL WITH SAND (GM) -olive -frozen									4.0	
5.0		<input checked="" type="checkbox"/>	78	▲			GM	◆	■	4.0	
5.0	END HOLE at 4.5m -200mm spruce cover									5.0	
6.0										6.0	

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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 94/10/27

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT		TEST HOLE NO: 339-82						
ENGINEERING-CAPITAL		SEGMENT 14		Project No: 092-202101-0314						
DRILL: B40L 150mm SOLID STEM AUGER		LOCATION: Sta. 1834+535 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 ▲ 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	ASH									0.0
1.0	ORGANIC MATERIAL -damp -frozen with visible ice below 1.0m									1.0
2.0										2.0
3.0	ASH AND ICE -estimate 50% ice -trace of gravel									3.0
4.0	SANDY SILT WITH GRAVEL (ML) -olive -frozen with estimated 50% ice		76	●	▲	ML	■◆			4.0
5.0	END HOLE at 4.5m -250mm spruce cover									5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: KJ REVIEWED BY: Fig. No:		COMPLETION DEPTH: 4.5 m COMPLETE: 94/10/27				

SUBSURFACE EXPLORATION AND TEST REPORT      SHAKWAK PROJECT      TEST HOLE NO: 339-81

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

DRILL: B40L 150mm SOLID STEM AUGER      LOCATION: Sta. 1834+675 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			PERCENT GRAVEL ■			
0.0	ORGANIC MATERIAL -damp										0.0	
	ASH											
1.0											1.0	
2.0	ORGANIC MATERIAL -frozen with visible ice										2.0	
3.0											3.0	
4.0	END HOLE at 4.0m -hole on waste pile -200mm spruce cover										4.0	
5.0											5.0	
6.0											6.0	

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LOGGED BY: KJ  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.0 m  
COMPLETE: 94/10/27

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT	TEST HOLE NO: 339-80
ENGINEERING-CAPITAL		SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER		LOCATION: Sta. 1834+775 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			PERCENT GRAVEL ■			
0.0	ASH										0.0	
0.0 - 1.0	ORGANIC MATERIAL -damp to moist											
1.0 - 2.0	-frozen with visible ice below 1.0m											
2.0 - 3.0	-estimate 15% ice below 2.0m											
3.0 - 4.0	-no visible ice below 2.5m											
4.0	SILTY SAND WITH GRAVEL (SM) -olive -frozen	<input checked="" type="checkbox"/>	75	▲	●	▲	SM	■	◆		4.0	
4.0 - 4.2	END HOLE at 4.2m -150mm spruce cover											
5.0												
6.0												

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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.2 m  
COMPLETE: 94/10/27

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-79
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1834+875 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 ◆		PERCENT GRAVEL ■		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	80	
0.0	ORGANIC ASH -damp											0.0	
1.0	ASH -frozen											1.0	
2.0	ORGANIC MATERIAL -frozen with visible ice											2.0	
3.0	-more ice below 2.0m  -no ice below 2.6m											3.0	
4.0	SILTY SAND WITH GRAVEL (SM) -olive -frozen -faster smooth drilling		74	▲	●		SM	■	◆			4.0	
5.0	END HOLE at 4.5m											5.0	
6.0												6.0	

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LOGGED BY: KJ	COMPLETION DEPTH: 4.5 m
REVIEWED BY:	COMPLETE: 94/10/27
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-78
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1834+950 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		

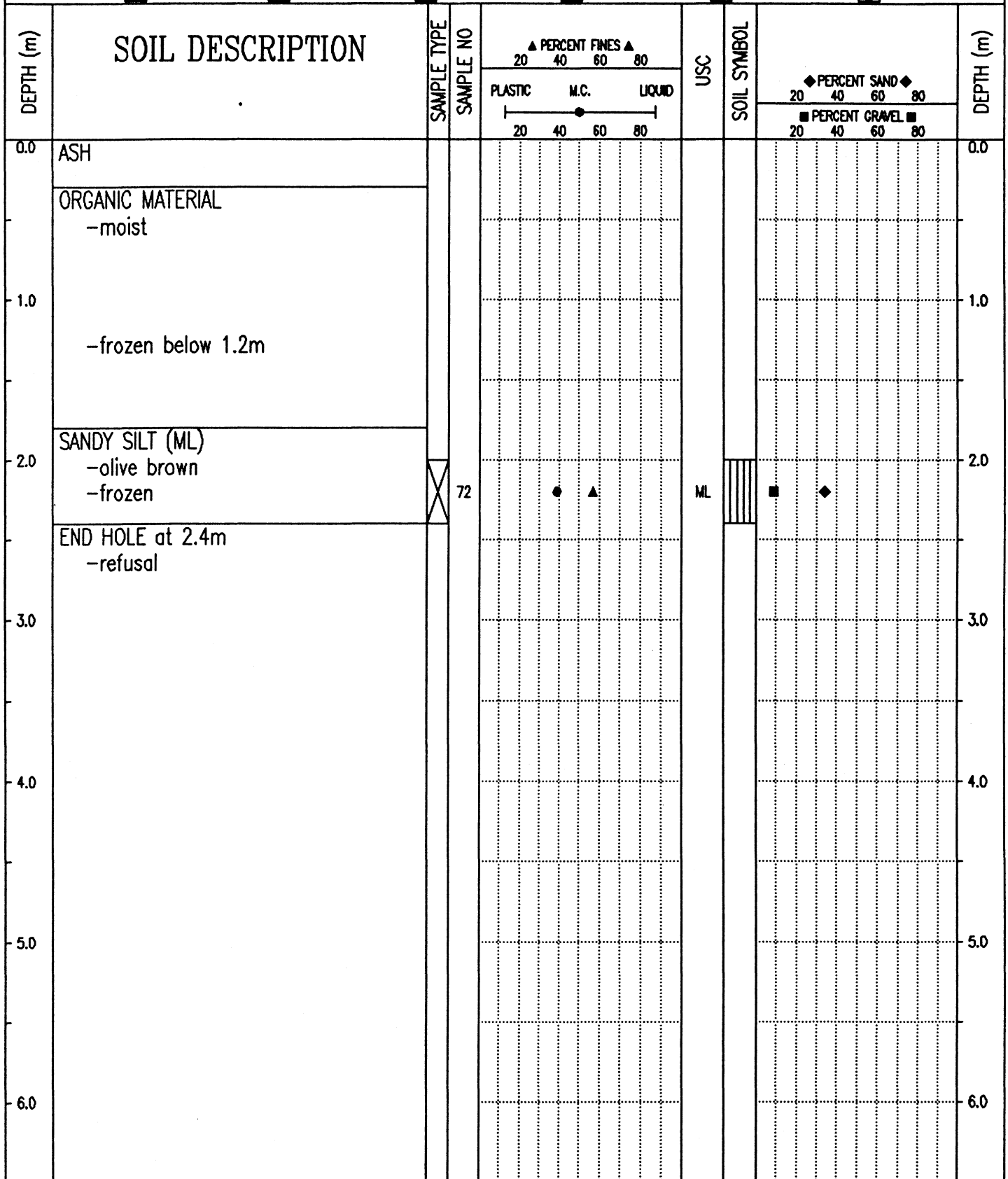
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC MATERIAL ASH											0.0
0.5	ORGANIC MATERIAL -moist											1.0
1.2	-frozen below 1.2m											2.0
2.0	SILT AND ICE -olive											3.0
3.0	ORGANIC MATERIAL -frozen -trace of silt											4.0
4.0	SILT (ML) -olive -frozen		93				ML					4.5
4.5	END HOLE at 4.5m											5.0
5.0												6.0

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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 94/10/27

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-77
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1835+100 o/s 12m Lt.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



Government of Yukon Transportation Engineering	LOGGED BY: KJ	COMPLETION DEPTH: 2.4 m
	REVIEWED BY:	COMPLETE: 94/10/27
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 364-176
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: YTG UNIT #36-003	LOCATION: Sta. 1835+100 o/s 5m 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
0.0	SILTY SAND WITH GRAVEL (SM) -brown -moist -smooth drilling											0.0	
1.0												1.0	
1.6	-first refusal at 1.3m -grindy drilling below 1.4m END HOLE at 1.6m -refusal -rock dust on bit	<input checked="" type="checkbox"/>	437	20	40	60	80	SM	20	40	60	80	1.6
2.0												2.0	
3.0												3.0	
4.0												4.0	
5.0												5.0	
6.0												6.0	

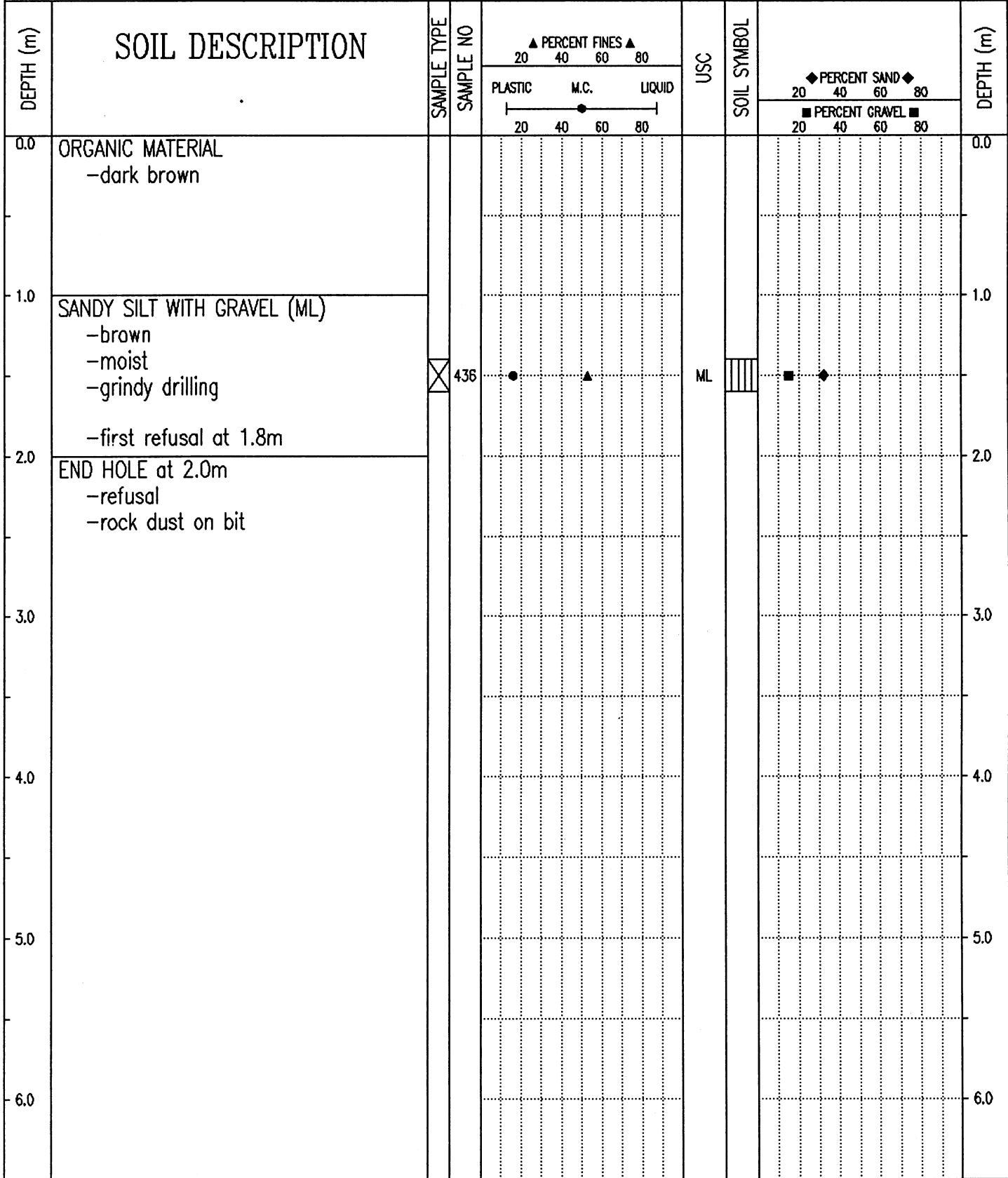
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LOGGED BY: CC  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 1.6 m  
COMPLETE: 95/06/09  
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 364-175
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: YTG UNIT #36-003	LOCATION: Sta. 1835+150 o/s 14m Rt.	ELEVATION: 0.00 (m)

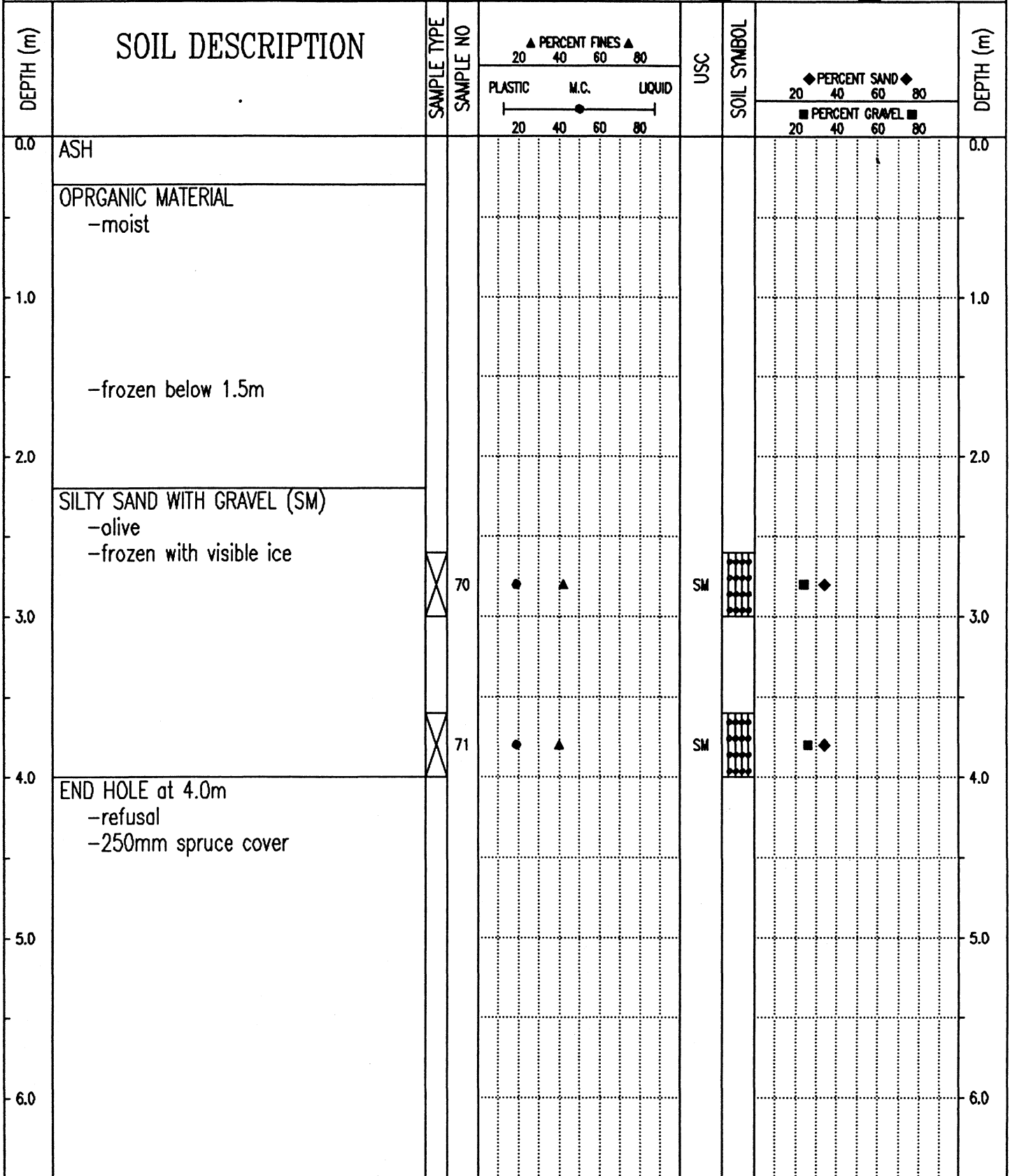
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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LOGGED BY: CC	COMPLETION DEPTH: 2.0 m
REVIEWED BY:	COMPLETE: 95/06/09
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-76
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1835+200 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		



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LOGGED BY: KJ  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.0 m  
COMPLETE: 94/10/27

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT		TEST HOLE NO: 339-75								
ENGINEERING-CAPITAL		SEGMENT 14		Project No: 092-202101-0314								
DRILL: B40L 150mm SOLID STEM AUGER		LOCATION: Sta. 1835+290		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 -moist										0.0	
1.0											1.0	
2.0	SILTY SAND (SM) -green -frozen with visible ice -some ash	X	67	45	55	55	SM	SM	65		2.0	
3.0	-some organics below 2.6m										3.0	
4.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen	X	68	45	55	55	SM	SM	65		4.0	
5.0	END HOLE at 4.5m -200mm spruce cover										5.0	
6.0											6.0	

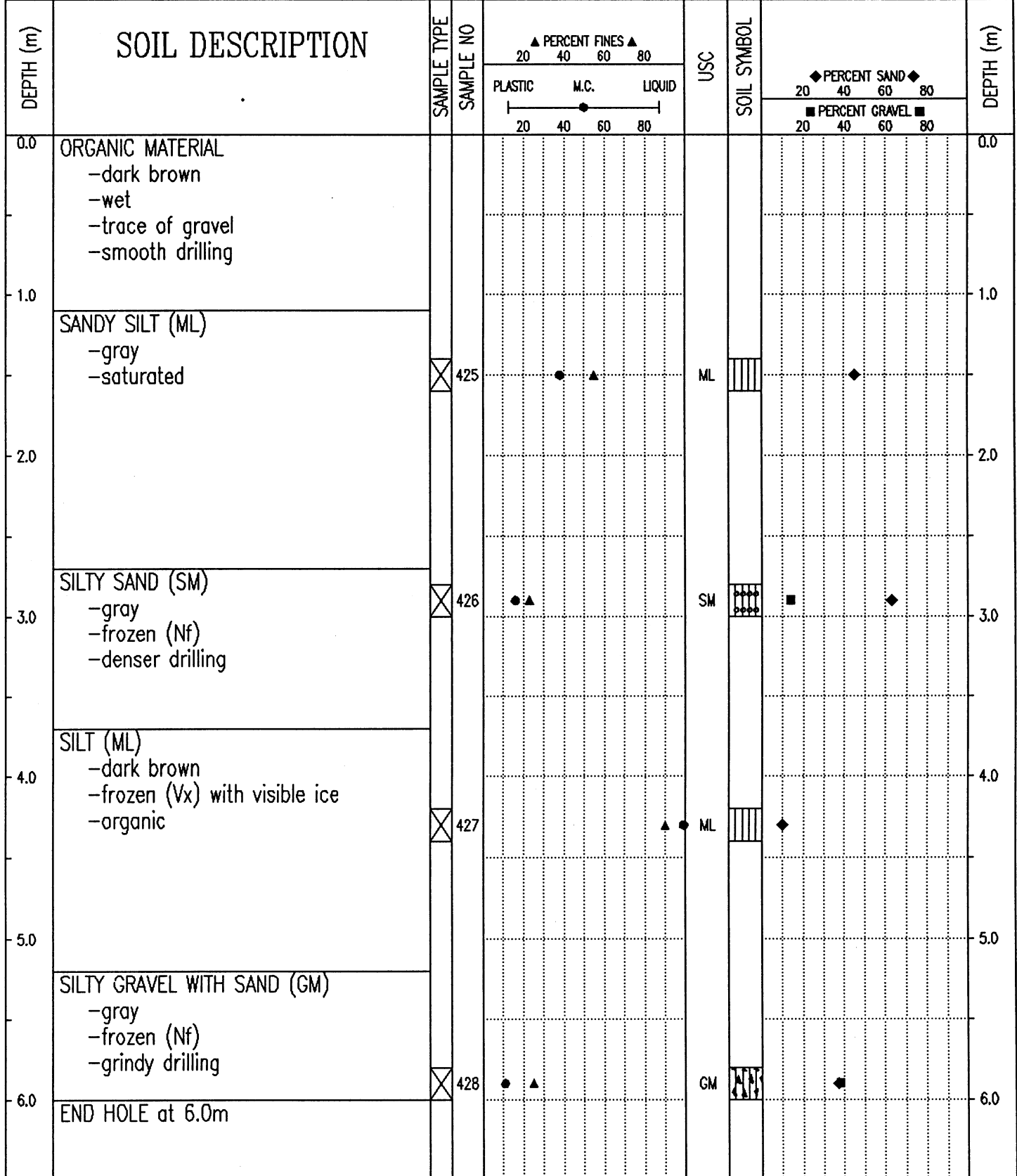
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Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 94/10/27

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 364-172
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: YTG UNIT #36-003	LOCATION: Sta. 1835+310 o/s 14m Lt.	ELEVATION: 0.00 (m)

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

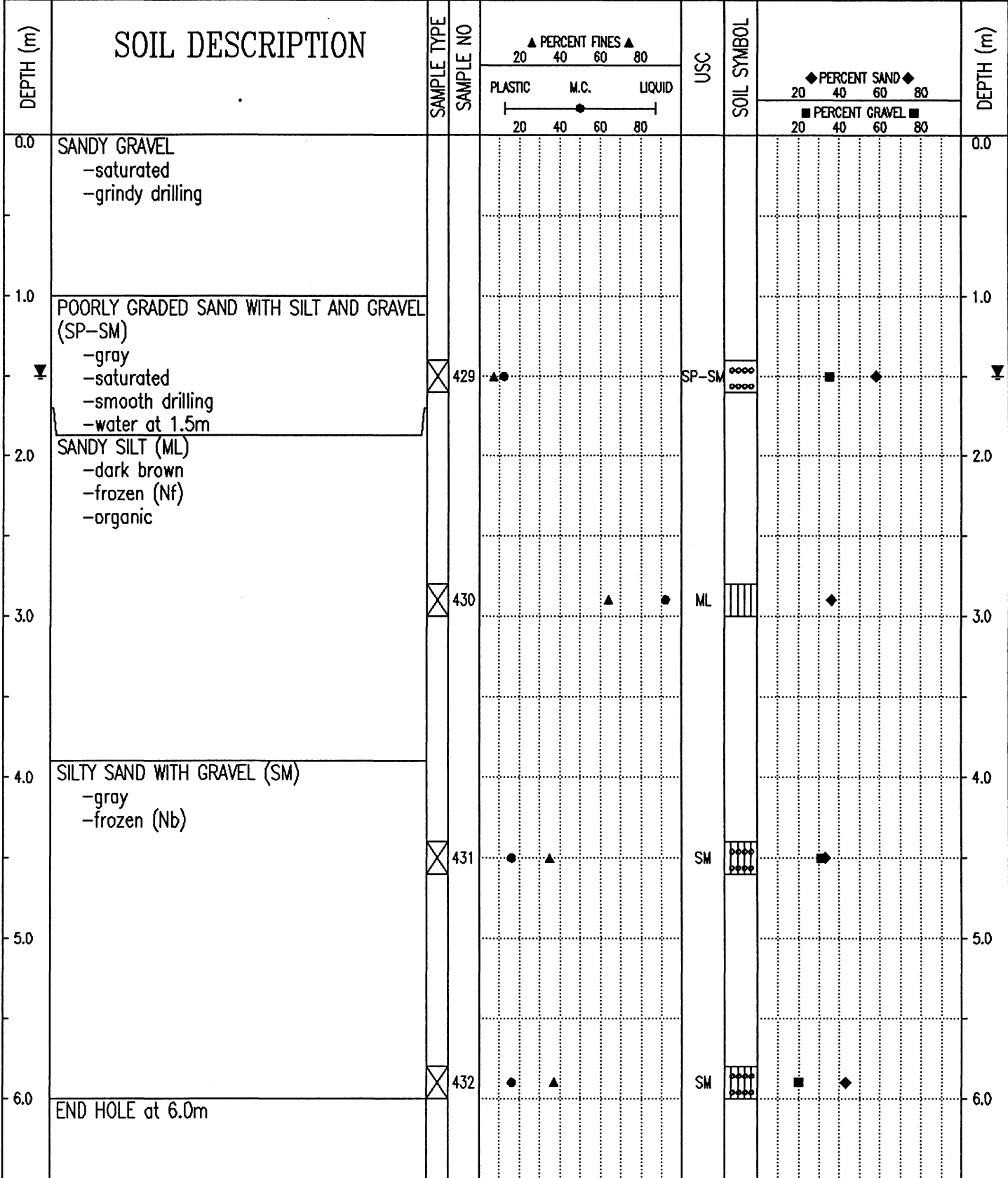


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Fig. No:

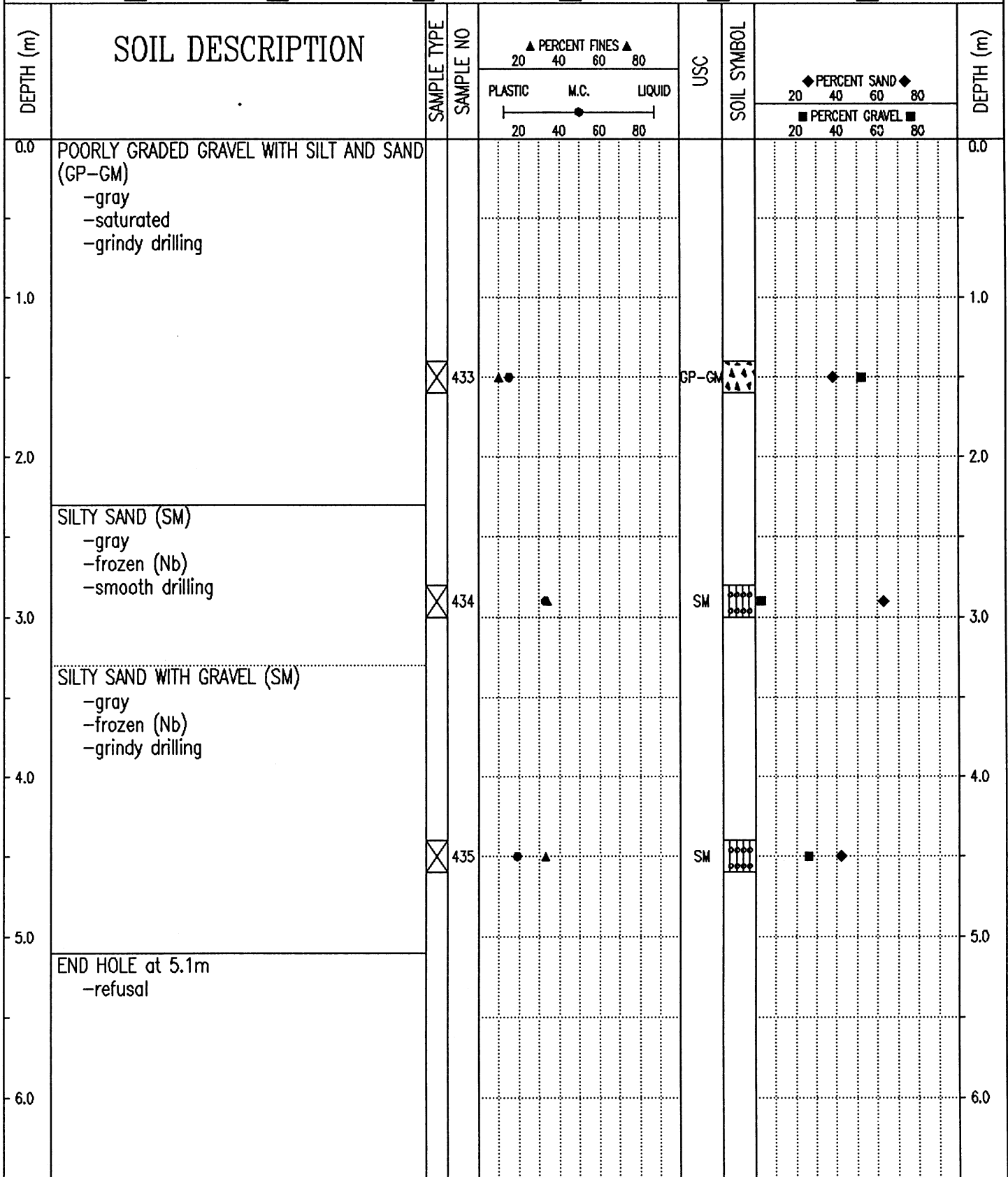
COMPLETION DEPTH: 6.0 m  
COMPLETE: 95/06/09

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



95/06/28 11:38AM

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 364-174
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: YTG UNIT #36-003	LOCATION: Sta. 1835+330 o/s 12m 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: 5.1 m  
COMPLETE: 95/06/09  
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-74
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1835+375	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 -moist											0.0
	ASH -frozen											
1.0	ORGANIC MATERIAL -moist -frozen below 1.0m											1.0
2.0												2.0
3.0												3.0
4.0	-visible ice below 2.4m											4.0
4.5	END HOLE at 4.5m -200mm spruce cover		66									4.5
5.0												5.0
6.0												6.0

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	REVIEWED BY:	COMPLETE: 94/10/27
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT      SHAKWAK PROJECT      TEST HOLE NO: 339-73

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

DRILL: B40L 150mm SOLID STEM AUGER      LOCATION: Sta. 1835+425      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	ASH										0.0	
	ORGANIC MATERIAL -moist											
1.0	-frozen with visible ice below 1.0m										1.0	
2.0	-estimate 10% ice below 2.0m										2.0	
3.0	-no ice below 2.8m										3.0	
	ORGANIC ASH -frozen with visible ice											
4.0	ASH -frozen with visible ice										4.0	
5.0	END HOLE at 4.5m -200mm spruce cover										5.0	
6.0											6.0	

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Fig. No:

COMPLETION DEPTH: 4.5 m

COMPLETE: 94/10/27

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-72
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1835+525	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 -moist										0.0
1.0	ASH -frozen										1.0
2.0	ORGANIC MATERIAL -frozen -smooth drilling										2.0
3.0	ASH -frozen -tight slow drilling										3.0
4.0	ORGANIC MATERIAL -frozen with visible ice										4.0
5.0	END HOLE at 4.5m -200mm spruce cover										5.0
6.0											6.0

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Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 94/10/27

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 339-71
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1835+625	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 -moist										0.0
1.0	-frozen with visible ice below 0.8m ORGANIC ASH -frozen										1.0
2.0											2.0
3.0	ASH -frozen										3.0
4.0	ORGANIC MATERIAL -frozen -tight slow drilling										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: 339-70
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1835+725	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	
0.0	ORGANIC MATERIAL											0.0
1.0	-frozen with a trace of ice below 1.0m											1.0
2.0												2.0
3.0	ASH -frozen											3.0
4.0	ORGANIC MATERIAL -frozen with visible ice											4.0
	-estimate 25% ice below 4.3m											
	END HOLE at 4.5m											
5.0												5.0
6.0												6.0

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Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 94/10/26

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-69
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1835+825	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 -moist										0.0	
1.0	-frozen below 1.2m -trace of visible ice below 1.2m										1.0	
2.0	-slow drilling below 1.8m										2.0	
3.0	ASH -frozen										3.0	
4.0	ORGANIC MATERIAL -frozen -trace of visible ice -faster drilling										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: 94/10/26

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT		TEST HOLE NO: 338-68						
ENGINEERING-CAPITAL		SEGMENT 14		Project No: 092-202101-0314						
DRILL: B40L 150mm SOLID STEM AUGER		LOCATION: Sta. 1835+925		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80		DEPTH (m)
				PLASTIC	M.C.			LIQUID	■ PERCENT GRAVEL ■ 20 40 60 80	
0.0	ORGANIC MATERIAL -moist									0.0
1.0	-frozen below 1.0m -some ash below 1.0m -slow drilling below 1.0m									1.0
2.0	ASH -frozen -faster drilling									2.0
3.0										3.0
4.0	ORGANIC MATERIAL -frozen -slower drilling									4.0
5.0	END HOLE at 4.5m									5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: KJ		COMPLETION DEPTH: 4.5 m				
				REVIEWED BY:		COMPLETE: 94/10/26				
				Fig. No:		Page 1 of 1				

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-67
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1836+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		

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											0.0
1.0	-frozen below 1.0m											1.0
2.0	ORGANIC ASH -frozen											2.0
3.0	ORGANIC SILT WITH ICE											3.0
4.0			65									4.0
5.0	END HOLE at 4.5m											5.0
6.0												6.0

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	REVIEWED BY:	COMPLETE: 94/10/26
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-66
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1836+125	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	DEPTH (m)
				PLASTIC	M.C.	LIQUID			
				20 40 60 80	20 40 60 80	20 40 60 80			
0.0	ASH -saturated								0.0
1.0	-frozen below 1.0m								1.0
2.0	ORGANIC MATERIAL -frozen								2.0
3.0	-estimate 25% ice below 3.0m -fast drilling below 3.0m								3.0
4.0									4.0
5.0	END HOLE at 4.5m -25mm spruce and swamp cover								5.0
6.0									6.0

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	REVIEWED BY:	COMPLETE: 94/10/26
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-65
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1836+225	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	ASH										0.0	
	ORGANIC MATERIAL											
1.0	-frozen below 1.0m										1.0	
2.0											2.0	
3.0	ICE LAYER WITH ORGANICS										3.0	
	ORGANIC MATERIAL -frozen											
4.0	END HOLE at 4.0m										4.0	
5.0											5.0	
6.0											6.0	

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Fig. No:

COMPLETION DEPTH: 4.0 m  
COMPLETE: 94/10/26

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-64
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1836+315 o/s 6m Lt.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	DEPTH (m)
				PLASTIC	M.C.	LIQUID			
				20 40 60 80	20 40 60 80	20 40 60 80			
0.0	ASH								0.0
1.0	ORGANIC MATERIAL -frozen below 1.0m								1.0
2.0	ORGANIC MATERIAL WITH SILT AND SAND -olive -frozen	<input checked="" type="checkbox"/>	64						2.0
3.0	ORGANIC MATERIAL -frozen								3.0
4.0	-visible ice below 3.6m								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: 94/10/26

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-63
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1836+405 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 ◆		PERCENT GRAVEL ■	DEPTH (m)
				20	40	80			20	40		
0.0	ORGANIC ASH											0.0
1.0	ORGANIC MATERIAL											1.0
	-frozen below 1.4m											
2.0	END HOLE at 1.75m											2.0
	-refusal											
3.0												3.0
4.0												4.0
5.0												5.0
6.0												6.0

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Fig. No:

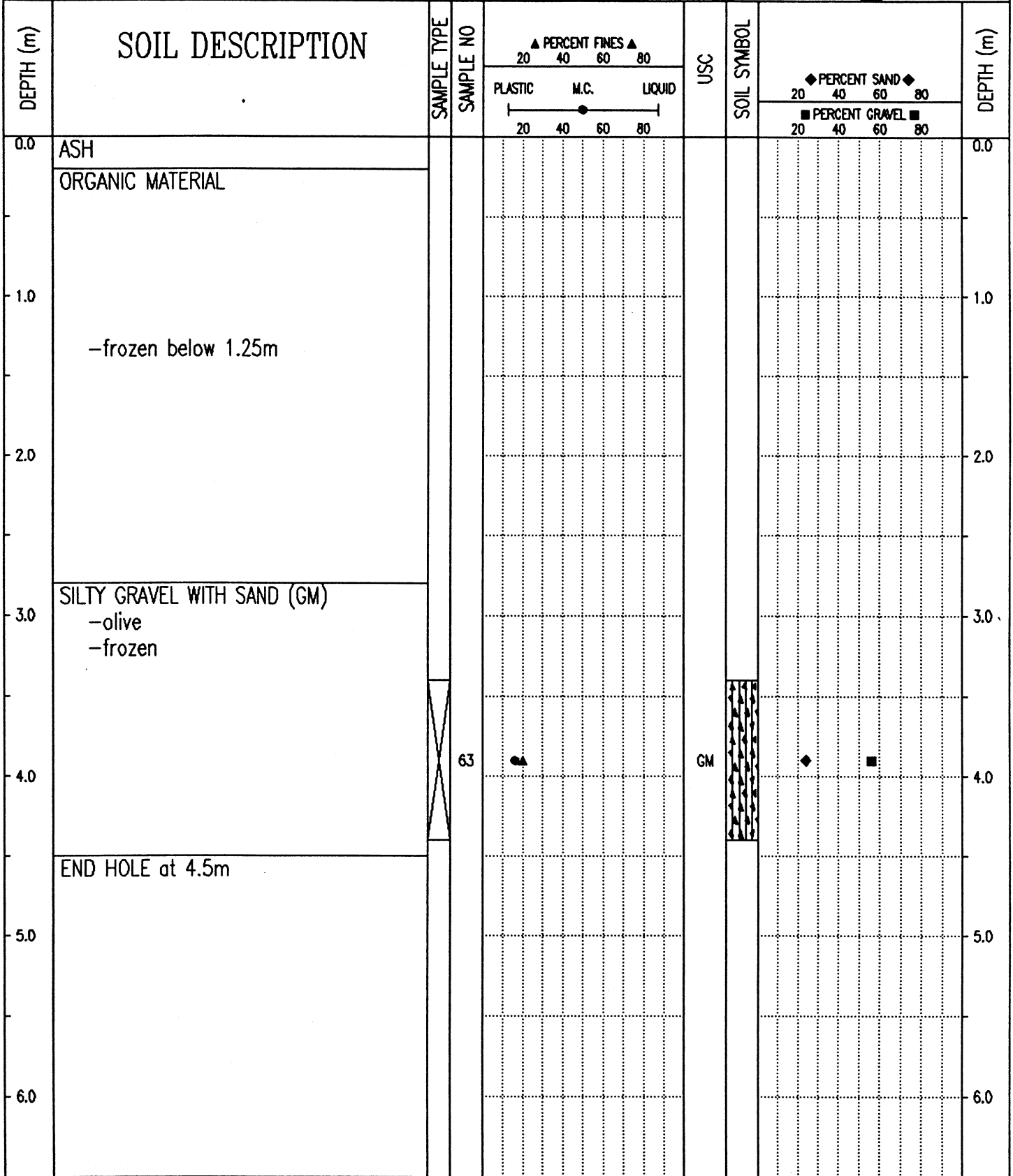
COMPLETION DEPTH: 1.8 m  
COMPLETE: 94/10/26

SUBSURFACE EXPLORATION AND TEST REPORT      SHAKWAK PROJECT      TEST HOLE NO: 338-62

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

DRILL: B40L 150mm SOLID STEM AUGER      LOCATION: Sta. 1836+445 o/s 8m 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: 94/10/26

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-61
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1836+575 o/s 25m Rt.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ASH											0.0
0.0 - 1.0	ORGANIC MATERIAL -moist											1.0
1.0 - 2.2	-frozen below 1.2m											2.0
2.2 - 2.2	END HOLE at 2.2m -refusal											3.0
3.0 - 4.0												4.0
4.0 - 5.0												5.0
5.0 - 6.0												6.0

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Fig. No:

COMPLETION DEPTH: 2.2 m  
COMPLETE: 94/10/26

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-60
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1836+660 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		
0.0	ORGANIC MATERIAL -moist											0.0
1.0												1.0
2.0	END HOLE at 1.4m -refusal -rock on surface in area											2.0
3.0												3.0
4.0												4.0
5.0												5.0
6.0												6.0

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COMPLETION DEPTH: 1.4 m  
COMPLETE: 94/10/26

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-59
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1836+700 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			PERCENT GRAVEL ■			
				20 40 60 80	20 40 60 80	20 40 60 80		20 40 60 80	20 40 60 80			
0.0	ASH										0.0	
0.0 - 1.0	ORGANIC MATERIAL -moist  -frozen below 1.0m											
1.0 - 2.0	SILTY SAND WITH GRAVEL (SM) -light brown -frozen											
2.0		<input checked="" type="checkbox"/>	62	▲	●		SM	■	◆		2.0	
2.0 - 3.0	END HOLE at 2.5m -refusal											
3.0 - 4.0												
4.0 - 5.0												
5.0 - 6.0												

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REVIEWED BY:	COMPLETE: 94/10/26
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-58
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1836+765 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	

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		
0.0	ORGANIC MATERIAL											0.0	
1.0	END HOLE at 1.0m -refusal -rock on surface in area											1.0	
2.0												2.0	
3.0												3.0	
4.0												4.0	
5.0												5.0	
6.0												6.0	

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Fig. No:

COMPLETION DEPTH: 1.0 m  
COMPLETE: 94/10/26

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-57
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1836+850 o/s 12m 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	ASH										0.0	
	ORGANIC MATERIAL											
1.0											1.0	
2.0	END HOLE at 1.5m -refusal -rock on surface in area										2.0	
3.0											3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	

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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 1.5 m  
COMPLETE: 94/10/26

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-56
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1836+900 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		

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	ASH									0.0	
	ORGANIC MATERIAL										
1.0										1.0	
	END HOLE at 1.2m -refusal twice										
2.0										2.0	
3.0										3.0	
4.0										4.0	
5.0										5.0	
6.0										6.0	

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Fig. No:

COMPLETION DEPTH: 1.2 m  
COMPLETE: 94/10/26

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-55
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1836+950 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	

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		
0.0	ORGANIC MATERIAL -trace of ash											0.0	
1.0												1.0	
2.0	-frozen below 1.5m											2.0	
3.0	-few small pieces angular rock END HOLE at 3.0m -refusal -rock on surface in area											3.0	
4.0												4.0	
5.0												5.0	
6.0												6.0	

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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 3.0 m  
COMPLETE: 94/10/26

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-54
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1837+060 o/s 12m 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	80			20	40		
0.0	ASH ORGANIC MATERIAL -moist										0.0	
1.0	-frozen with visible ice below 1.2m										1.0	
2.0	END HOLE at 1.8m -refusal										2.0	
3.0											3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	

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Fig. No:

COMPLETION DEPTH: 1.8 m  
COMPLETE: 94/10/26

SUBSURFACE EXPLORATION AND TEST REPORT      SHAKWAK PROJECT      TEST HOLE NO: 338-53

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

DRILL: B40L 150mm SOLID STEM AUGER      LOCATION: Sta. 1837+125 o/s 12m Rt.      ELEVATION: 0.00 (m)

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

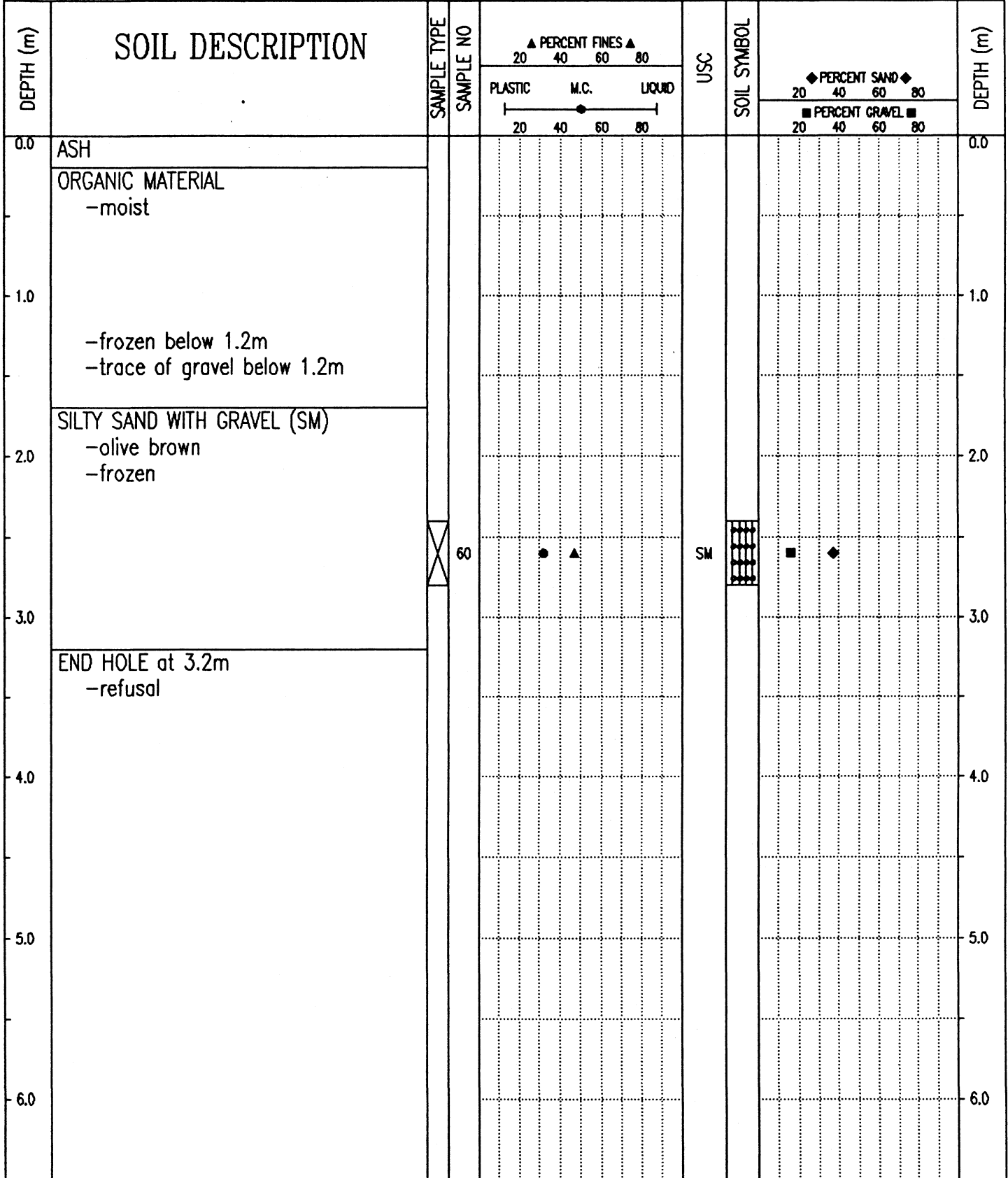
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ASH											0.0
1.0	-frozen below 1.2m											1.0
2.0	ORGANIC MATERIAL -frozen -black below 2.2m -visible ice below 2.2m -some silt below 2.2m -easier drilling below 2.2m											2.0
3.0		<input checked="" type="checkbox"/>	61			●						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: 94/10/26

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-52
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1837+225 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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Fig. No:

COMPLETION DEPTH: 3.2 m  
COMPLETE: 94/10/26

SUBSURFACE EXPLORATION AND TEST REPORT      SHAKWAK PROJECT      TEST HOLE NO: 338-51

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

DRILL: B40L 150mm SOLID STEM AUGER      LOCATION: Sta. 1837+310 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	ASH											0.0
0.0 - 1.0	ORGANIC MATERIAL -moist to wet											1.0
1.0 - 2.0	-frozen below 1.2m											2.0
2.0	SILTY GRAVEL WITH SAND (GM) -frozen -organic -angular		59				GM					2.0
2.0 - 3.0	END HOLE at 2.2m -refusal -on trail at edge of clearing -rock on surface in area											3.0
3.0 - 4.0												4.0
4.0 - 5.0												5.0
5.0 - 6.0												6.0

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 REVIEWED BY:      COMPLETE: 94/10/26  
 Fig. No:      Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-50
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1837+350 o/s 30m 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	DEPTH (m)
				PLASTIC	M.C.	LIQUID			
				20 40 60 80	20 40 60 80	20 40 60 80			
0.0	ASH							0.0	
	ORGANIC MATERIAL -wet to saturated								
1.0								1.0	
2.0	-frozen below 1.8m -slow drilling below 1.8m							2.0	
3.0	END HOLE at 2.8m -refusal							3.0	
4.0								4.0	
5.0								5.0	
6.0								6.0	

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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 2.8 m  
COMPLETE: 94/10/26

SUBSURFACE EXPLORATION AND TEST REPORT      SHAKWAK PROJECT      TEST HOLE NO: 338-49

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

DRILL: B40L 150mm SOLID STEM AUGER      LOCATION: Sta. 1837+390 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)	
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■				
				20	40	60	80		20	40	60	80	
0.0	ASH												0.0
0.0 - 1.0	ORGANIC MATERIAL -damp												1.0
1.0 - 2.0	-frozen below 1.2m												2.0
2.0	SILTY GRAVEL WITH SAND (GM) -frozen with visible ice -organics	<input checked="" type="checkbox"/>	58					GM					2.0
2.0 - 3.0	END HOLE at 2.6m -on trail by edge of clearing												3.0
3.0 - 4.0													4.0
4.0 - 5.0													5.0
5.0 - 6.0													6.0

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Fig. No:

COMPLETION DEPTH: 2.6 m  
COMPLETE: 94/10/26

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-48
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1837+500 o/s 3m Rt.	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.
	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK
	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ORGANIC MATERIAL -moist										0.0	
1.0	-frozen with visible ice below 1.0m -slow drilling										1.0	
2.0											2.0	
3.0	-easier drilling below 3.0m										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: 94/10/25

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-47
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1837+600 o/s 8m Rt.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	PERCENT SAND			PERCENT GRAVEL	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60		
0.0	ORGANIC MATERIAL -moist												0.0
1.0	-frozen, trace of visible ice												1.0
2.0													2.0
3.0	-visible ice below 2.4m												3.0
4.0													4.0
5.0													5.0
6.0													6.0
7.0													7.0
8.0	END HOLE at 7.5m -refusal												8.0
9.0													9.0
10.0													10.0

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Fig. No:

COMPLETION DEPTH: 7.5 m

COMPLETE: 94/10/25

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-46
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1837+700 o/s 12m 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 ASH -damp to moist										0.0	
1.0	-frozen with visible ice below 1.2m										1.0	
2.0	ORGANIC MATERIAL -frozen with visible ice										2.0	
3.0											3.0	
4.0	-more ice below 4.0m -easier drilling below 4.0m										4.0	
5.0	ICE -organics										5.0	
6.0	END HOLE at 6.0m		57								6.0	

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REVIEWED BY:	COMPLETE: 94/10/25
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-45
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1837+775 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			PERCENT GRAVEL ■			
0.0	ORGANIC MATERIAL -moist										0.0	
1.0	ASH -moist										1.0	
2.0											2.0	
3.0	ORGANIC MATERIAL -frozen  -visible ice below 3.5m -slow tight drilling below 3.8m										3.0	
4.0											4.0	
5.0											5.0	
6.0	-more ice, easier drilling below 5.6m  END HOLE at 6.0m										6.0	

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Fig. No:

COMPLETION DEPTH: 6.0 m  
COMPLETE: 94/10/25

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-44
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1837+875 o/s 14m Lt.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

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											0.0
1.0	SAND -brown -wet											1.0
2.0	ASH -saturated											2.0
3.0	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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Fig. No:

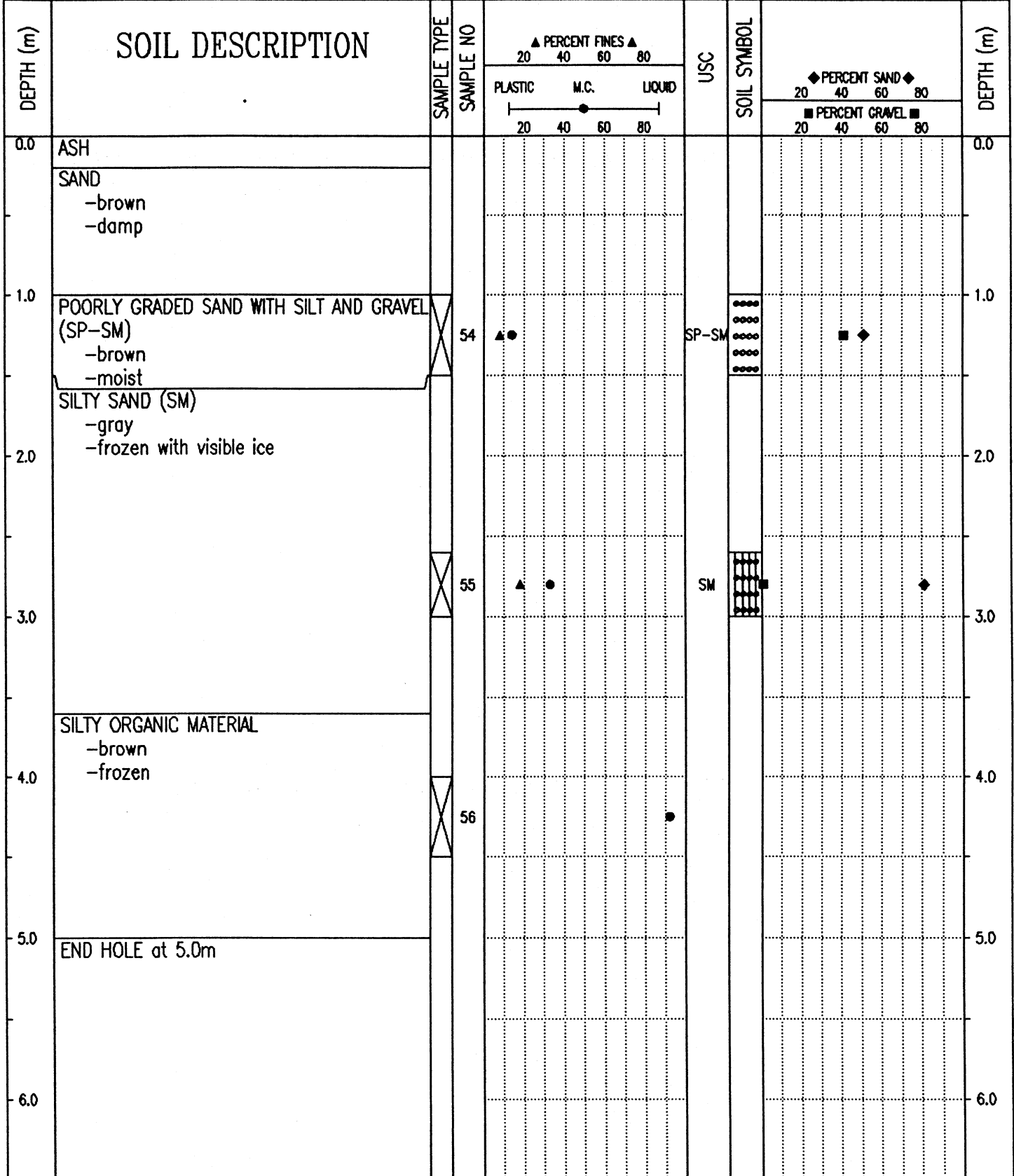
COMPLETION DEPTH: 4.5 m  
COMPLETE: 94/10/25

SUBSURFACE EXPLORATION AND TEST REPORT      SHAKWAK PROJECT      TEST HOLE NO: 338-43

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

DRILL: B40L 150mm SOLID STEM AUGER      LOCATION: Sta. 1837+985 o/s 5m Rt.      ELEVATION: 0.00 (m)

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

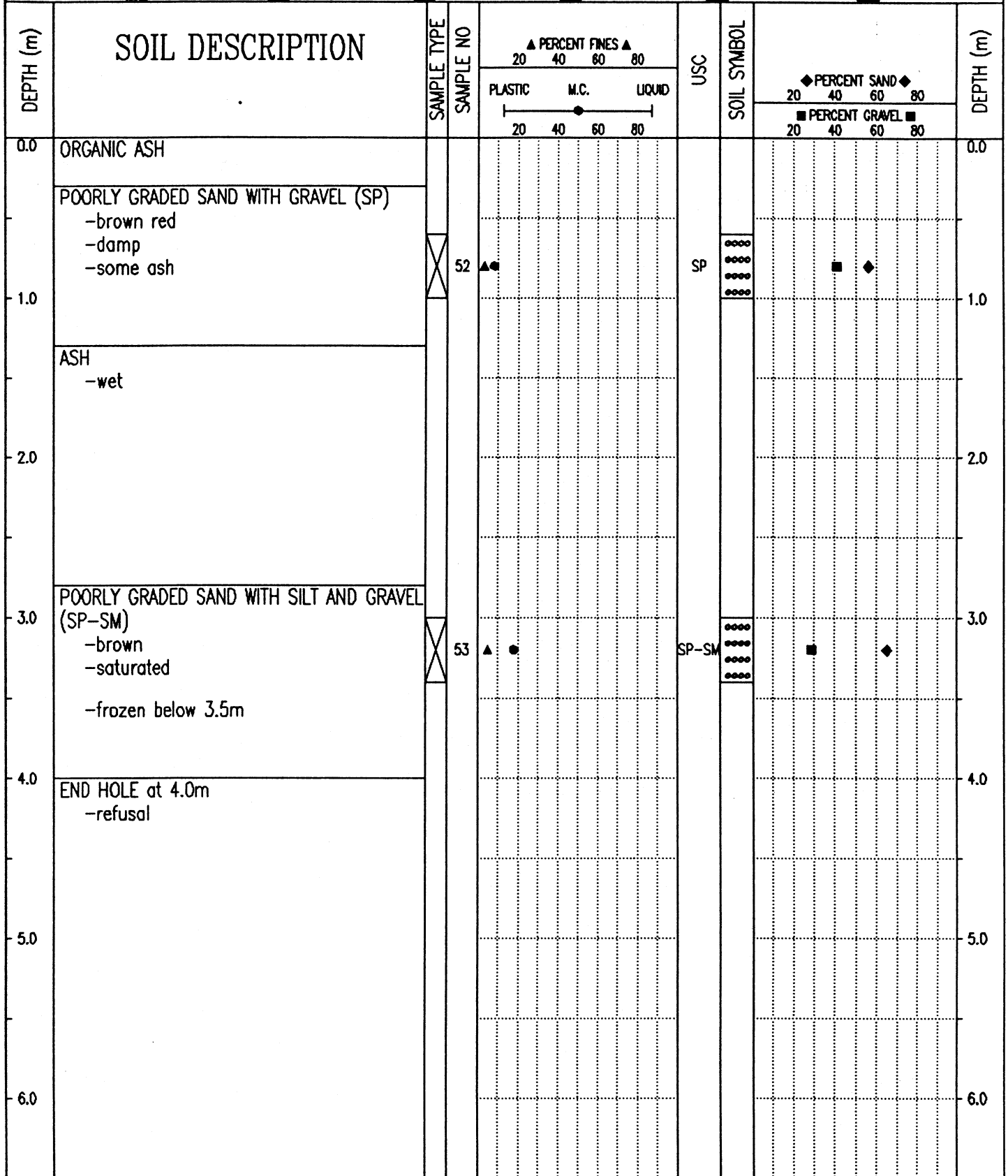


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Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 94/10/25

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-42
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1838+075 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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Fig. No:

COMPLETION DEPTH: 4.0 m  
COMPLETE: 94/10/25

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-41
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1838+150 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		

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										0.0	
	ASH											
1.0	ORGANIC MATERIAL										1.0	
	-frozen below 1.5m											
2.0											2.0	
3.0	-visible ice below 3.0m										3.0	
4.0	-chunks of wood at this depth										4.0	
5.0	-brown below 5.0m -trace of sand below 5.0m										5.0	
6.0	END HOLE at 6.0m		51								6.0	

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REVIEWED BY:	COMPLETE: 94/10/25
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-40
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1838+265 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 ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ASH										0.0	
1.0	-frozen below 0.8m -some organics below 0.8m										1.0	
2.0	ORGANIC MATERIAL -frozen -smooth drilling										2.0	
3.0	SILTY GRAVEL WITH SAND (GM) -frozen with visible ice		50				GM				3.0	
4.0	END HOLE at 3.3m -refusal										4.0	
5.0											5.0	
6.0											6.0	

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Fig. No:

COMPLETION DEPTH: 3.3 m  
COMPLETE: 94/10/25

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-39
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1838+390 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 -saturated										0.0	
1.0	ASH -saturated										1.0	
2.0	-frozen below 2.1m										2.0	
3.0	ORGANIC MATERIAL -frozen with visible ice										3.0	
4.0	ASH -frozen -faster drilling										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: 94/10/25

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-38
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1838+490 o/s 12m 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 -saturated										0.0
	ASH -saturated										
1.0											1.0
	ORGANIC MATERIAL -saturated										
2.0											2.0
	-frozen below 2.0m										
3.0	SANDY SILT (ML) -brown -frozen -smooth slow drilling		49				ML				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: 94/10/25

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-37
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1839+275	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 -saturated -some ash											0.0
1.0	-frozen below 1.1m											1.0
2.0	END HOLE at 1.4m -refusal -water on surface											2.0
3.0												3.0
4.0												4.0
5.0												5.0
6.0												6.0

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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 1.4 m  
COMPLETE: 94/10/25

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-36
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1839+435	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 -some ash  -frozen below 0.5m  -visible ice below 1.4m										0.0
1.0											1.0
2.0											2.0
3.0	ASH -frozen with visible ice -easier drilling -ice lenses below 3.0m										3.0
4.0	SILT (ML) -brown -frozen with visible ice -slow drilling END HOLE at 4.0m		48				ML				4.0
5.0											5.0
6.0											6.0

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Fig. No:

COMPLETION DEPTH: 4.0 m

COMPLETE: 94/10/25

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-35
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1839+525	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 ASH											0.0
1.0	ASH -frozen with visible ice -some organics											1.0
2.0	-lots of ice below 2.0m -very hard slow drilling											2.0
3.0	-no organics below 2.5m											3.0
4.0												4.0
5.0	END HOLE at 4.4m											5.0
6.0												6.0

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Fig. No:

COMPLETION DEPTH: 4.4 m  
COMPLETE: 94/10/24



SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-33
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1839+725	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	

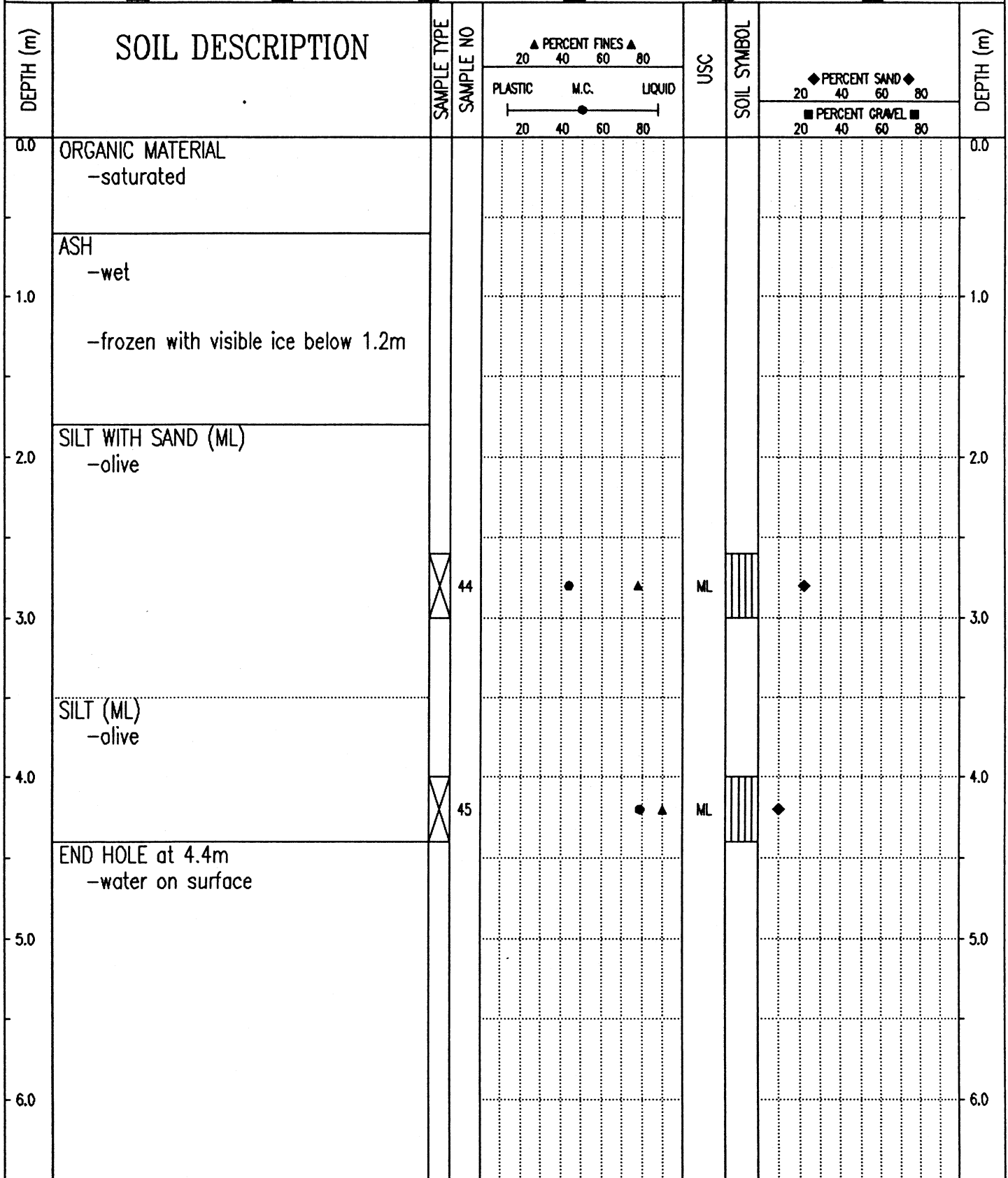
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲			USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC MATERIAL -saturated -some ash									0.0	
1.0	ORGANIC ASH -frozen									1.0	
2.0	-slower drilling below 2.0m									2.0	
3.0	SILT WITH SAND (ML) -brown olive -frozen -slow tight drilling	<input checked="" type="checkbox"/>	46				ML			3.0	
4.0	END HOLE at 4.0m -water on surface									4.0	
5.0										5.0	
6.0										6.0	

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Fig. No:

COMPLETION DEPTH: 4.0 m  
COMPLETE: 94/10/24

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-32
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1839+825	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		

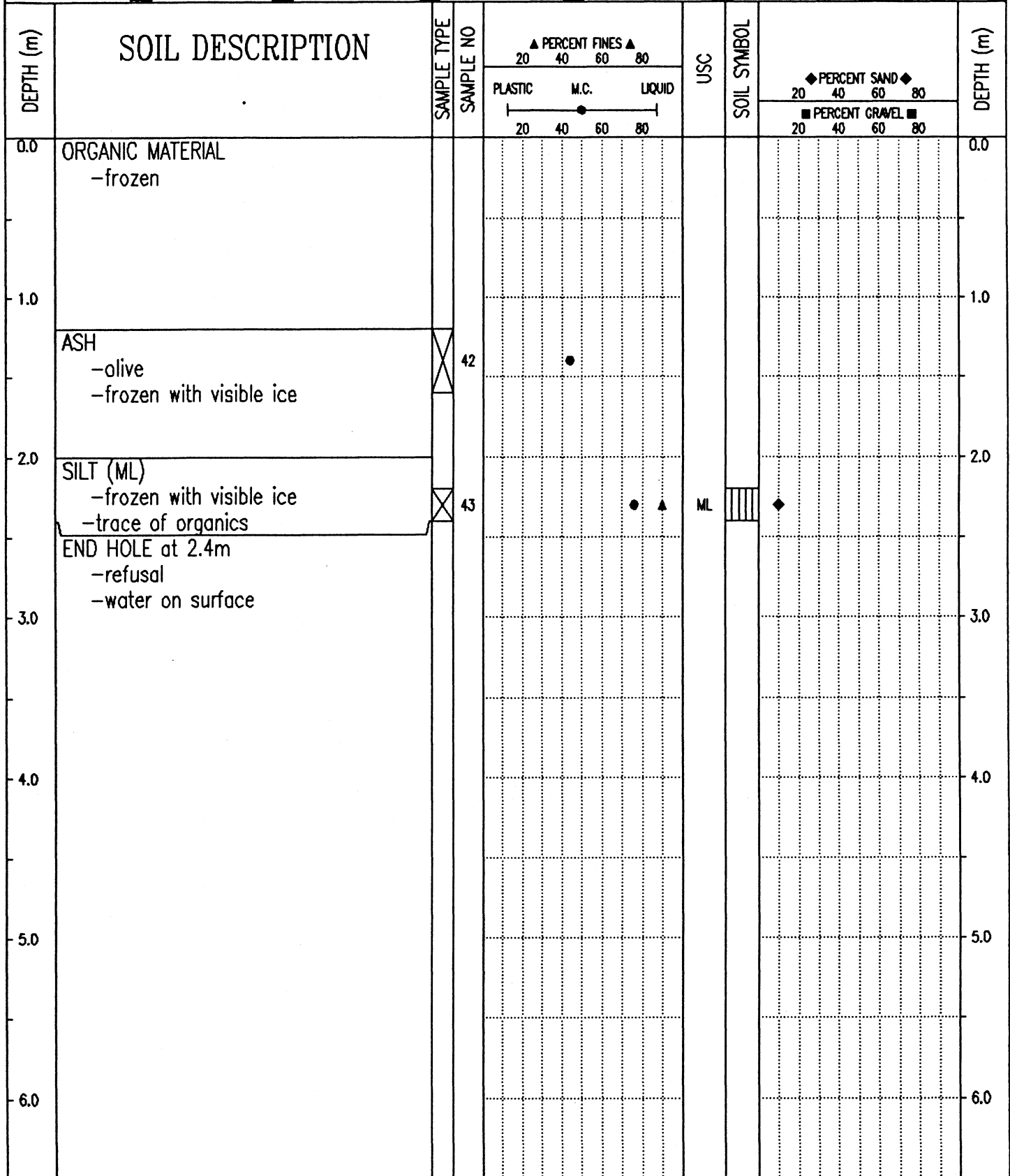


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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.4 m  
COMPLETE: 94/10/24

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-31
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1839+925	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE	



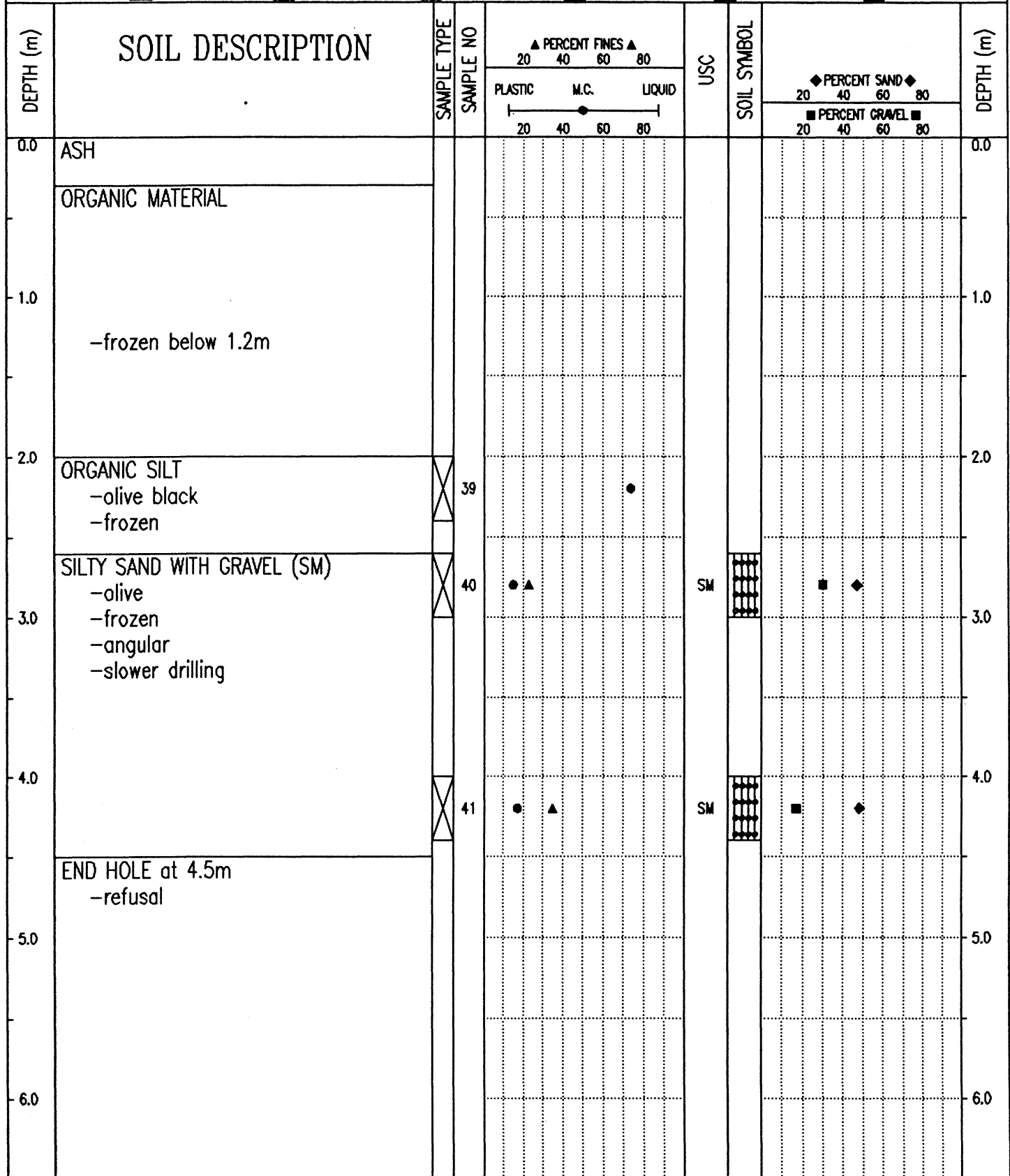
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Fig. No:

COMPLETION DEPTH: 2.4 m  
COMPLETE: 94/10/24

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT		TEST HOLE NO: 338-30						
ENGINEERING-CAPITAL		SEGMENT 14		Project No: 092-202101-0314						
DRILL: B40L 150mm SOLID STEM AUGER		LOCATION: Sta. 1840+020 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 ▲ 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80		DEPTH (m)
				PLASTIC M.C. LIQUID 20 40 60 80				■ PERCENT GRAVEL ■ 20 40 60 80		
0.0	ORGANIC MATERIAL									0.0
	ASH									
1.0										1.0
	ORGANIC MATERIAL -frozen									
2.0										2.0
	END HOLE at 2.2m -refusal									
3.0										3.0
4.0										4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: GC		COMPLETION DEPTH: 2.2 m				
				REVIEWED BY:		COMPLETE: 94/10/24				
				Fig. No:		Page 1 of 1				

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-29
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1840+075 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		

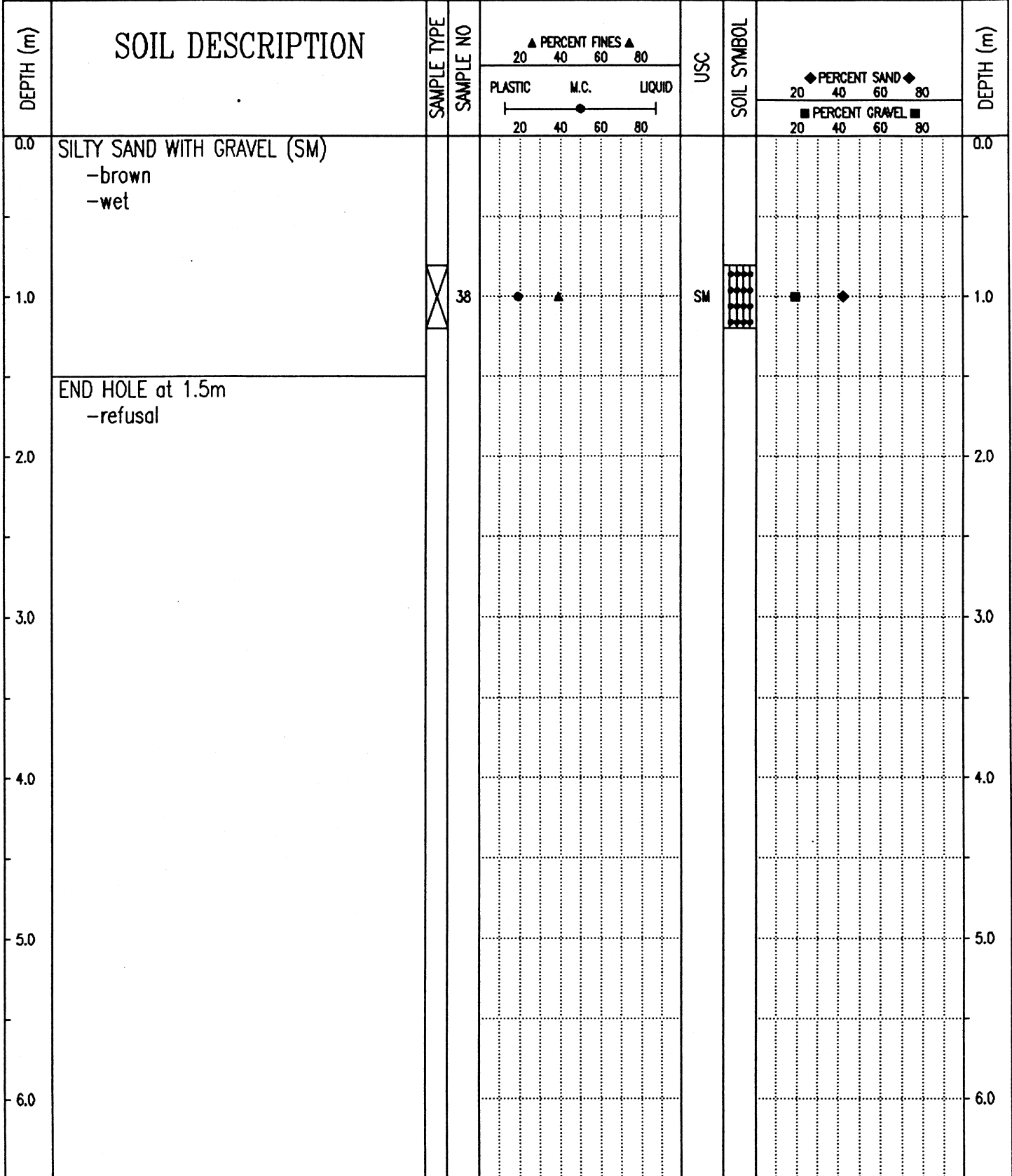


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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 94/10/24

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-28
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1840+145 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		



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	REVIEWED BY:	COMPLETE: 94/10/24
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-27
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1840+250 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		

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	ASH									0.0	
0.0 - 1.0	ORGANIC MATERIAL -saturated										
1.0 - 2.6	SILTY SAND WITH GRAVEL (SM) -brown -moist										
2.6	END HOLE at 2.6m -refusal		37	●	▲		SM	■	◆		
2.6 - 6.0											

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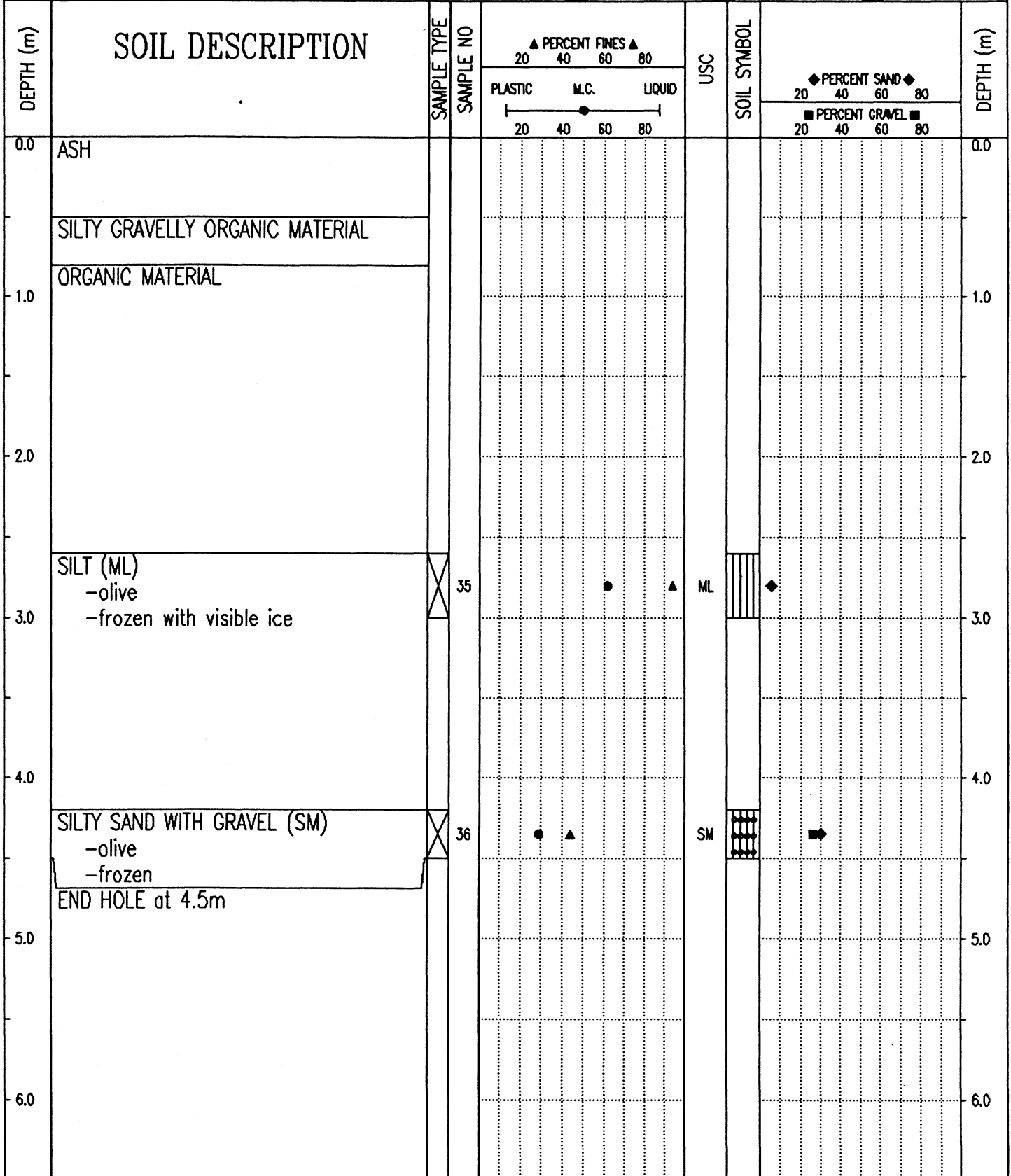
COMPLETION DEPTH: 2.6 m  
COMPLETE: 94/10/22

SUBSURFACE EXPLORATION AND TEST REPORT      SHAKWAK PROJECT      TEST HOLE NO: 338-26

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

DRILL: B40L 150mm SOLID STEM AUGER      LOCATION: Sta. 1840+300 o/s 10m Rt.      ELEVATION: 0.00 (m)

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

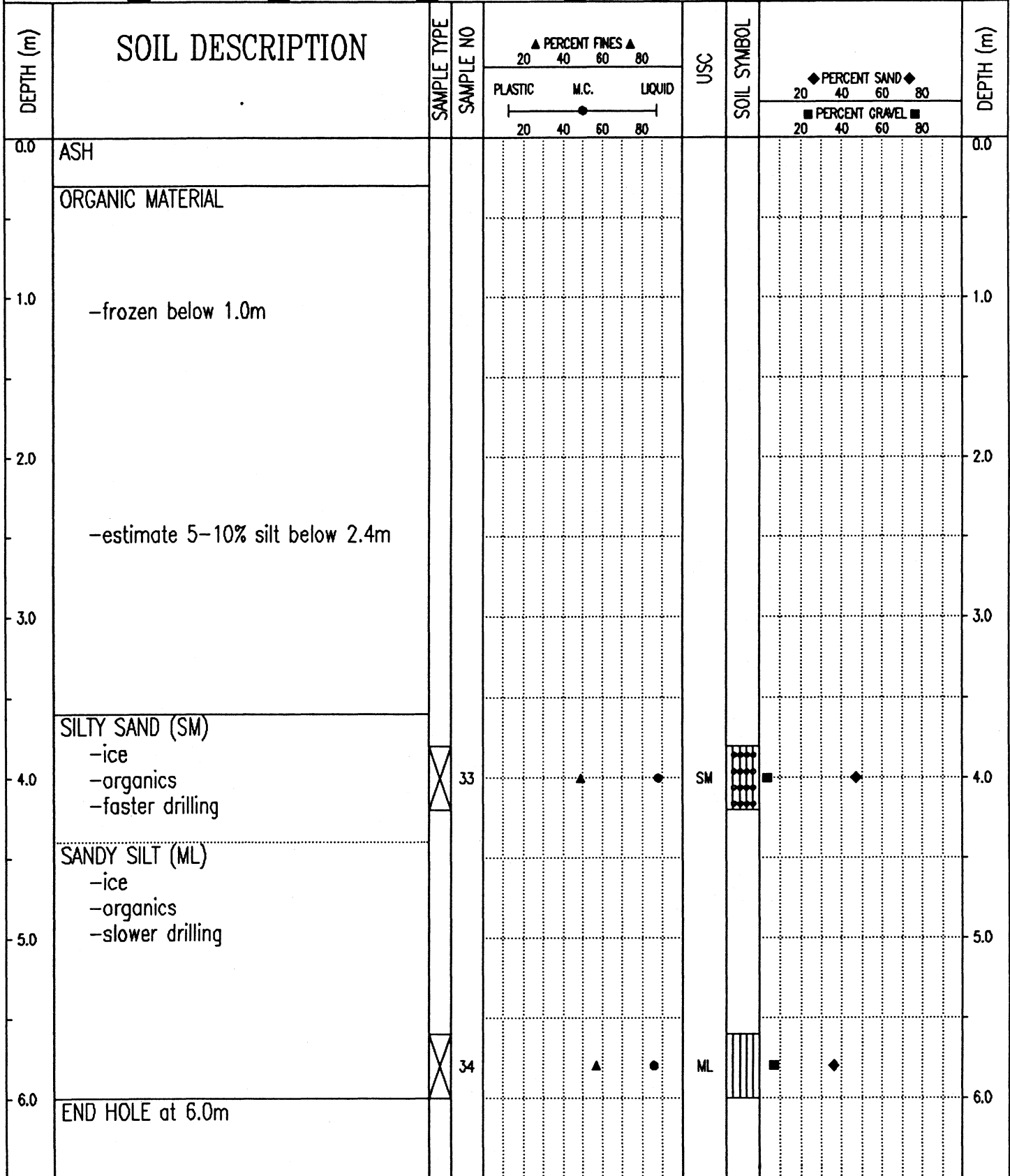


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Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 94/10/22

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-25
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1840+375 o/s 12m 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: 6.0 m  
COMPLETE: 94/10/22

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-24
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1840+425 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		

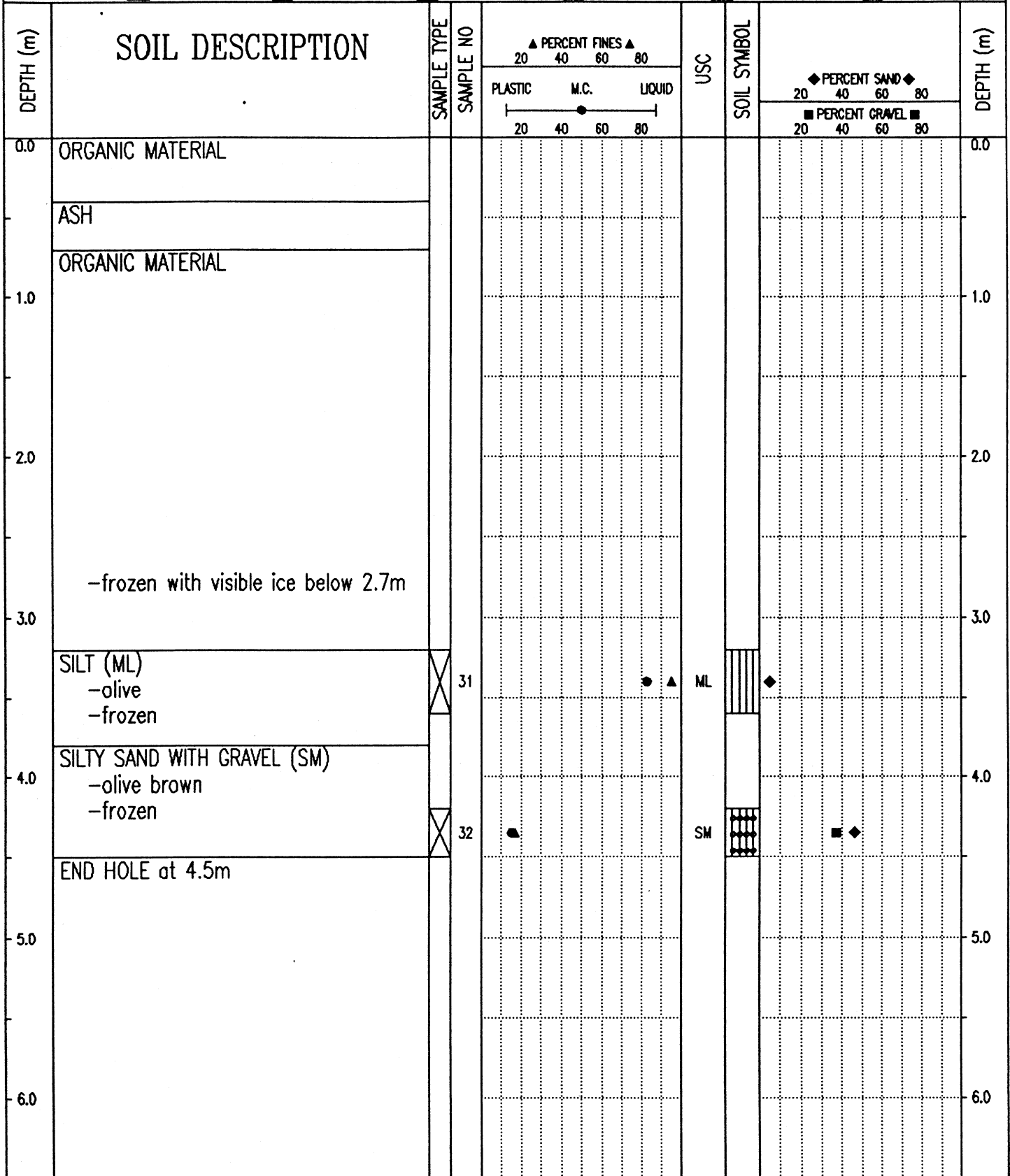
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ASH										0.0	
1.0	ORGANIC MATERIAL -easy drilling										1.0	
2.0											2.0	
3.0											3.0	
4.0	-frozen below 3.6m										4.0	
5.0	-trace of silt at 4.4m										5.0	
6.0	END HOLE at 4.6m										6.0	

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Fig. No:

COMPLETION DEPTH: 4.6 m  
COMPLETE: 94/10/22

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-23
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1840+450 o/s 17m 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: 94/10/22

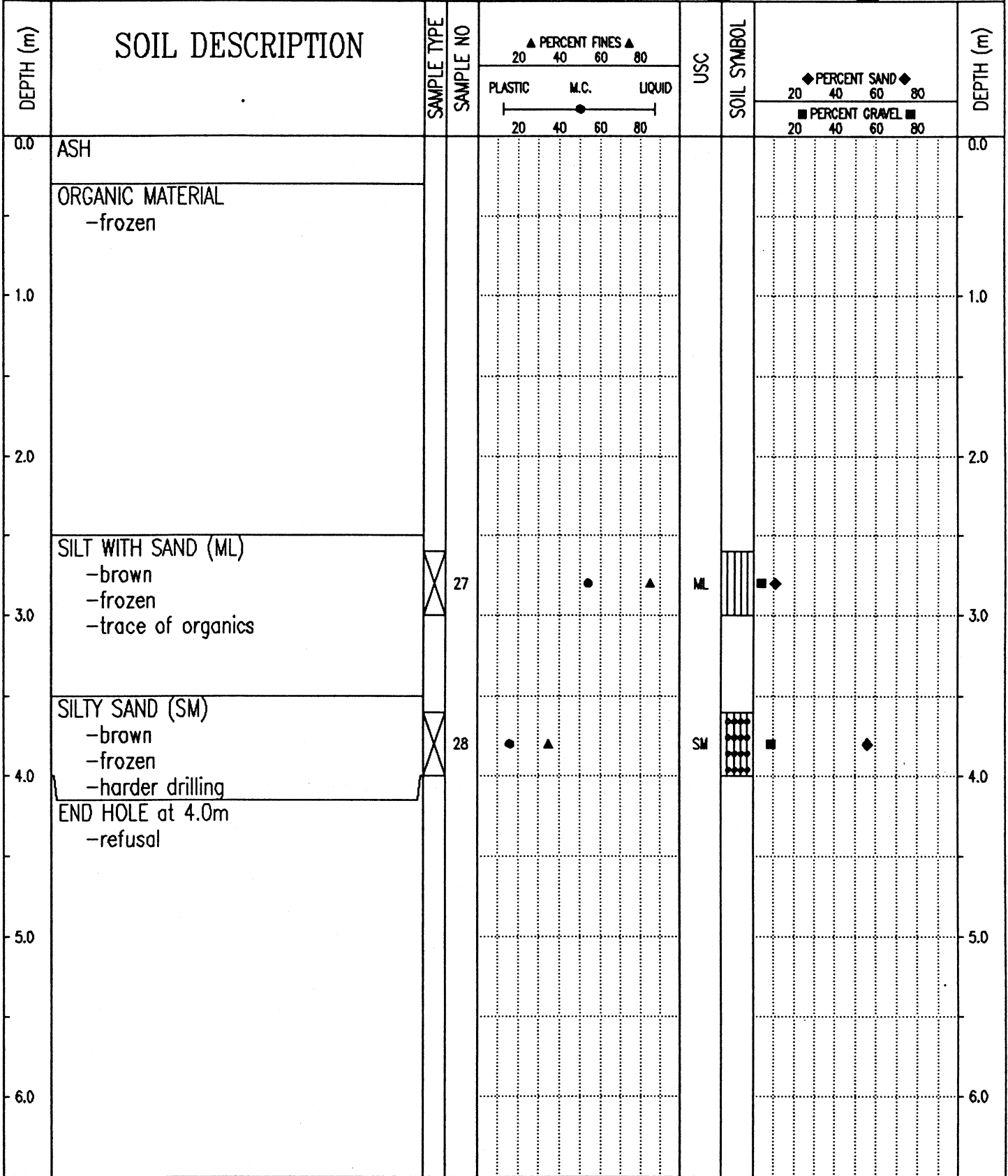
SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 338-22
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1840+500 o/s 15m Rt.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

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	ASH									0.0	
0.0 - 1.0	ORGANIC MATERIAL										
1.0 - 2.0											
2.0 - 3.0											
3.0 - 4.0	SILTY SAND WITH GRAVEL (SM) -brown -moist -smooth drilling	<input checked="" type="checkbox"/>	29	▲	●		SM	■	◆		
4.0 - 5.0		<input checked="" type="checkbox"/>	30	▲	●		SM	■	◆		
5.0 - 6.0	END HOLE at 4.8m -refusal										

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LOGGED BY: GC	COMPLETION DEPTH: 4.8 m
REVIEWED BY:	COMPLETE: 94/10/22
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 337-21
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1840+650 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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Fig. No:

COMPLETION DEPTH: 4.0 m  
COMPLETE: 94/10/21

SUBSURFACE EXPLORATION AND TEST REPORT      SHAKWAK PROJECT      TEST HOLE NO: 337-20

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

DRILL: B40L 150mm SOLID STEM AUGER      LOCATION: Sta. 1840+750 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			PERCENT GRAVEL ■		
0.0	ORGANIC ASH									0.0	
1.0	SILTY SAND WITH GRAVEL (SM) -olive -moist -frozen below 1.2m		26	▲	●		SM	◆	■	1.0	
2.0	END HOLE at 2.0m -refusal -rock dust on bit									2.0	
3.0										3.0	
4.0										4.0	
5.0										5.0	
6.0										6.0	

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Fig. No:

COMPLETION DEPTH: 2.0 m  
COMPLETE: 94/10/21

SUBSURFACE EXPLORATION AND TEST REPORT      SHAKWAK PROJECT      TEST HOLE NO: 337-19

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

DRILL: B40L 150mm SOLID STEM AUGER      LOCATION: Sta. 1840+850 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			PERCENT GRAVEL ■			
0.0	ASH										0.0	
0.0 - 1.0	ORGANIC MATERIAL										1.0	
1.0 - 2.0											2.0	
2.0 - 3.0	-frozen below 2.0m										3.0	
3.0 - 4.0	-visible ice below 3.0m										4.0	
4.0 - 5.0	SILTY SAND WITH GRAVEL (SM) -olive -frozen	<input checked="" type="checkbox"/>	24	●			SM	■	◆		4.0	
5.0 - 6.0	SILTY GRAVEL WITH SAND (GM) -olive brown -moist	<input checked="" type="checkbox"/>	25	●	▲		GM	■	◆		6.0	
6.0	END HOLE at 6.0m										6.0	

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COMPLETION DEPTH: 6.0 m

COMPLETE: 94/10/21

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 337-18
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1840+950 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		

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	ASH									0.0	
0.0 - 1.0	ORGANIC MATERIAL -frozen										
1.0 - 2.0											
2.0 - 3.0											
3.0 - 4.0	SILTY SAND WITH GRAVEL (SM) -olive -frozen  -brown below 3.8m	<input checked="" type="checkbox"/>	22	●			SM	■	◆	3.0	
4.0 - 5.0		<input checked="" type="checkbox"/>	23	●			SM	■	◆	4.0	
5.0 - 6.0	END HOLE at 4.5m -refusal										

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	REVIEWED BY:	COMPLETE: 94/10/21
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 337-17
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1841+100 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		

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		
0.0	ORGANIC MATERIAL											0.0	
1.0	ORGANIC ASH											1.0	
2.0	ORGANIC MATERIAL -frozen with visible ice -tight drilling											2.0	
3.0												3.0	
4.0	SILT WITH SAND (ML) -olive -frozen -easier drilling											4.0	
4.5	END HOLE at 4.5m		21				ML					4.5	
5.0												5.0	
6.0												6.0	

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LOGGED BY: GC  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 94/10/21

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 337-16
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1841+215 o/s 12m 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

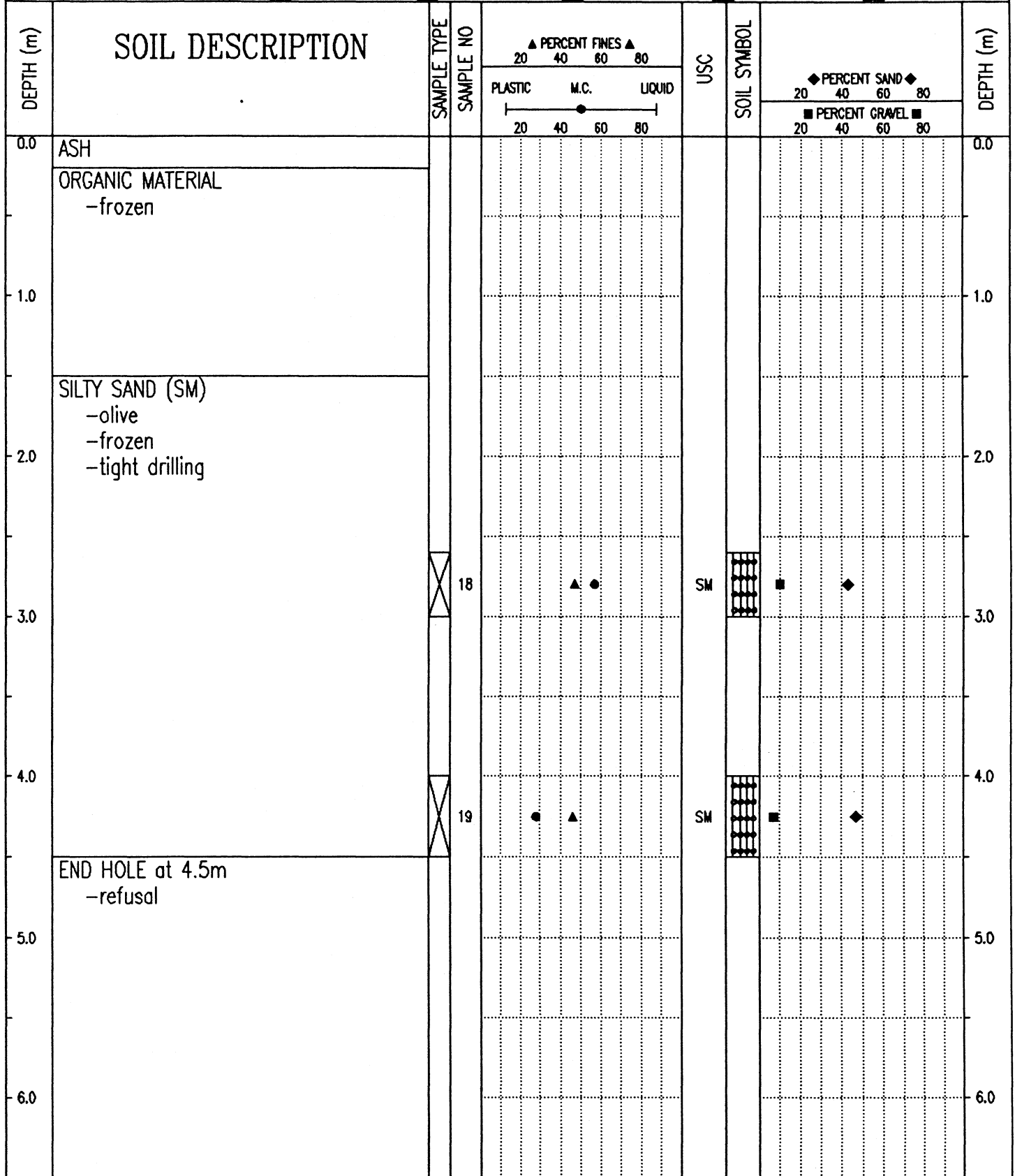
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ASH										0.0	
	ORGANIC MATERIAL -frozen											
1.0											1.0	
	SILT WITH SAND AND GRAVEL -olive -frozen with visible ice											
2.0	ORGANIC MATERIAL -frozen -tight drilling										2.0	
3.0											3.0	
4.0	ICE										4.0	
	SILTY SAND WITH GRAVEL (SM) -frozen		20	▲	●		SM	■	◆			
	END HOLE at 4.5m											
5.0											5.0	
6.0											6.0	

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LOGGED BY: GC  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 94/10/21

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 337-15
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1841+335 o/s 15m Rt.	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.
	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK
	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE



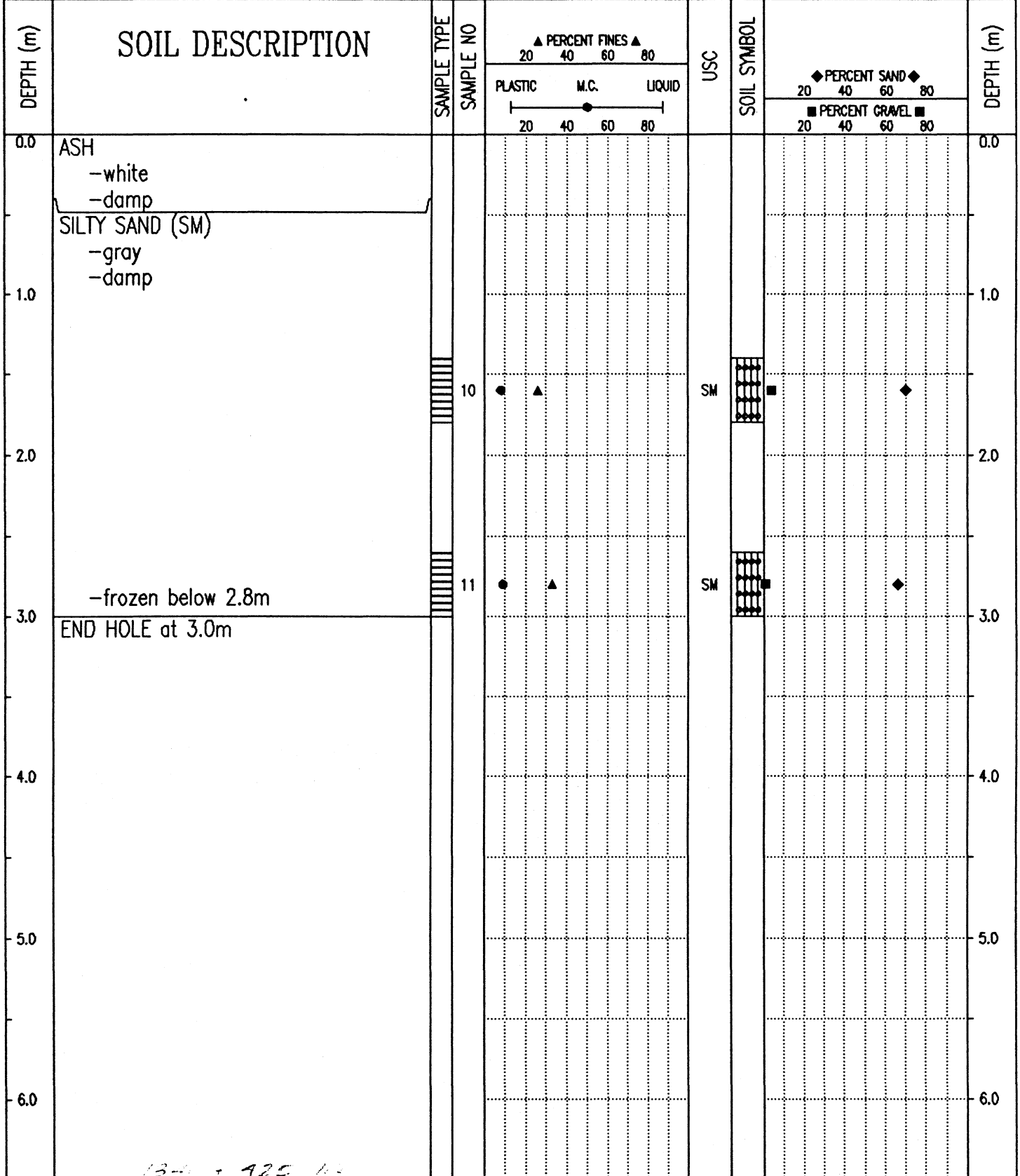
Government of Yukon  
Transportation Engineering

LOGGED BY: GC  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 94/10/21

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 320-13
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
BACKHOE: CAT 225	LOCATION: See Plan	ELEVATION: 0.00 (m)

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



13-4 + 425 1-3  
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LOGGED BY: DA	COMPLETION DEPTH: 3.0 m
REVIEWED BY:	COMPLETE: 94/09/30
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SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT		TEST HOLE NO: 337-08								
ENGINEERING-CAPITAL		SEGMENT 14		Project No: 092-202101-0314								
DRILL: B40L 150mm SOLID STEM AUGER		LOCATION: Sta. 1841+425 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								
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	ORGANICS AND ASH										0.0	
1.0	ASH AND SAND										1.0	
2.0											2.0	
3.0	POORLY GRADED SAND WITH SILT (SP-SM) -gray -frozen -ash	<input checked="" type="checkbox"/>	10	▲	●		SP-SM	○○○○	■	◆	3.0	
4.0											4.0	
5.0											5.0	
6.0	SANDY SILT (ML) -moist to wet	<input checked="" type="checkbox"/>	11		●	▲	ML			◆	6.0	
7.0	SILTY SAND WITH GRAVEL (SM) -grinding drilling	<input checked="" type="checkbox"/>	12	▲			SM		■	◆	7.0	
8.0	END HOLE at 7.5m										8.0	
9.0											9.0	
10.0											10.0	

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LOGGED BY: GC  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 7.5 m  
COMPLETE: 94/10/21

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 320-12
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
BACKHOE: CAT 225	LOCATION: See Plan	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	80	
0.0	ORGANIC MATERIAL											0.0	
	ASH												
	-white												
	-frozen below 0.6m												
1.0	ORGANIC SILT											1.0	
	-dark brown												
	-frozen with visible ice												
2.0	SILTY GRAVEL											2.0	
	-gray green												
	-frozen with visible ice												
2.0	END HOLE at 1.6m											2.0	
3.0												3.0	
4.0												4.0	
5.0												5.0	
6.0												6.0	

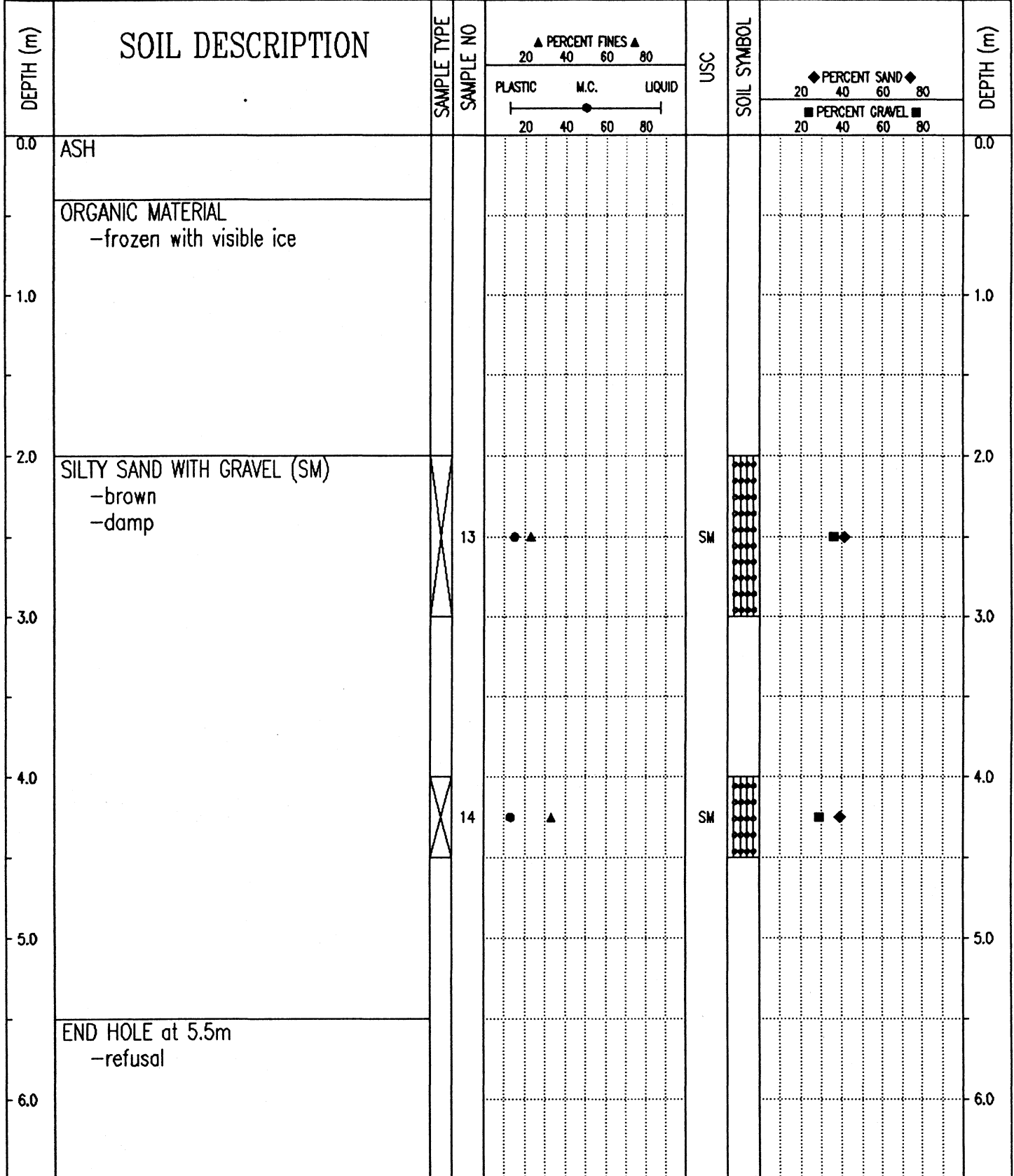
Government of Yukon Transportation Engineering	LOGGED BY: DA	COMPLETION DEPTH: 1.6 m
	REVIEWED BY:	COMPLETE: 94/09/30
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT      SHAKWAK PROJECT      TEST HOLE NO: 337-09

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

DRILL: B40L 150mm SOLID STEM AUGER      LOCATION: Sta. 1841+510 o/s 20m 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: 5.5 m

COMPLETE: 94/10/21

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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							0.0
	ASH -white -frozen below 0.5m							
1.0	ORGANIC SILT -dark brown -frozen							1.0
2.0	WELL-GRADED GRAVEL WITH SILT AND SAND (GW-GM) -gray green -frozen with visible ice -maximum 75mm material		9			GW-GM		2.0
3.0								3.0
4.0								4.0
5.0								5.0
6.0								6.0

341 + 602 704

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LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 1.6 m  
COMPLETE: 94/09/30

SUBSURFACE EXPLORATION AND TEST REPORT      SHAKWAK PROJECT      TEST HOLE NO: 337-10

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

DRILL: B40L 150mm SOLID STEM AUGER      LOCATION: Sta. 1841+610 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			PERCENT GRAVEL ■			
0.0	ASH										0.0	
1.0	ORGANIC MATERIAL										1.0	
2.0	SILTY SAND WITH GRAVEL (SM) -brown -moist -angular										2.0	
3.0	END HOLE at 2.8m -refusal	<input checked="" type="checkbox"/>	15	●	▲		SM	■	◆		3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	

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LOGGED BY: GC

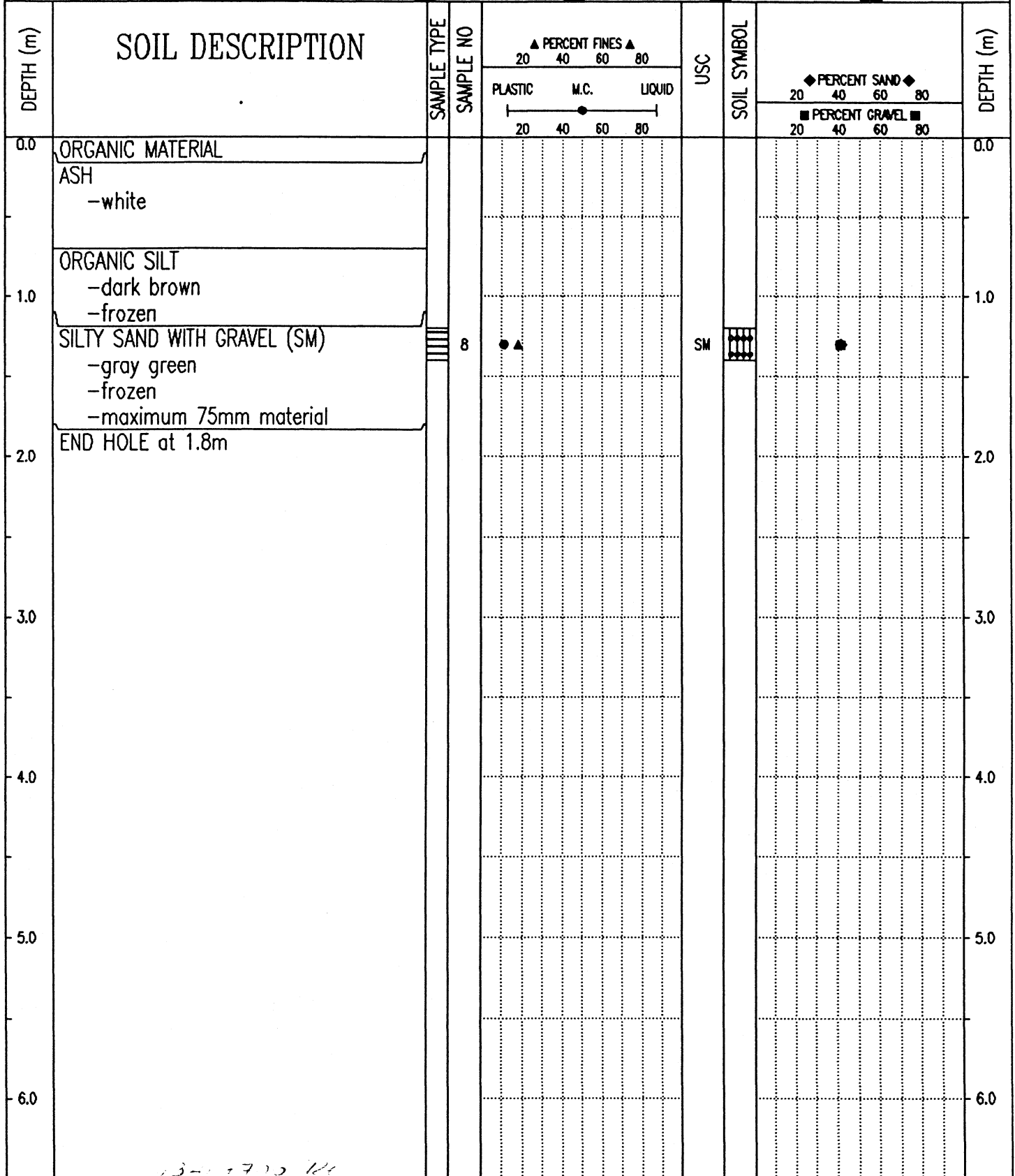
REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 2.8 m

COMPLETE: 94/10/21

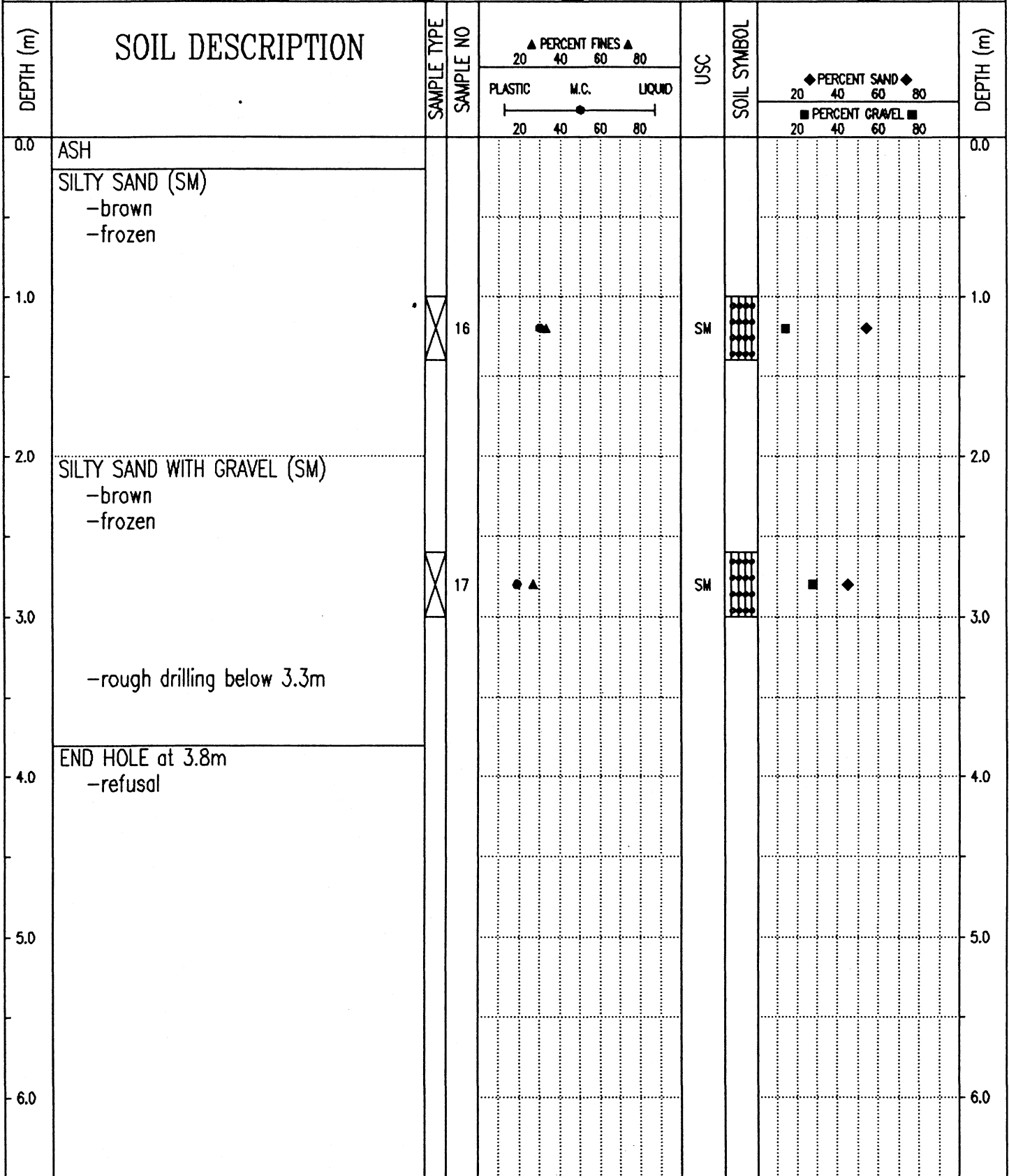
SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 320-10
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
BACKHOE: CAT 225	LOCATION: See Plan	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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LOGGED BY: DA	COMPLETION DEPTH: 1.8 m
REVIEWED BY:	COMPLETE: 94/09/30
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 337-11
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1841+715 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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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 3.8 m  
COMPLETE: 94/10/21

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 320-09
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
BACKHOE: CAT 225	LOCATION: See Plan	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										0.0
	ASH										
	-white										
	-frozen										
1.0	ORGANIC SILT										1.0
	-dark brown										
	-frozen										
	END HOLE at 1.4m										
	-refusal										
2.0											2.0
3.0											3.0
4.0											4.0
5.0											5.0
6.0											6.0

13214900 PL

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Fig. No:

COMPLETION DEPTH: 1.4 m

COMPLETE: 94/09/30

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 337-12
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1841+850 o/s 50m 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	ASH										0.0
1.0	ORGANIC MATERIAL										1.0
2.0	END HOLE at 2.0m -refusal										2.0
3.0											3.0
4.0											4.0
5.0											5.0
6.0											6.0

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LOGGED BY: GC	COMPLETION DEPTH: 2.0 m
REVIEWED BY:	COMPLETE: 94/10/21
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT      SHAKWAK PROJECT      TEST HOLE NO: 337-07

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

DRILL: B40L 150mm SOLID STEM AUGER      LOCATION: Sta. 1841+875 o/s 5m Lt.      ELEVATION: 0.00 (m)

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

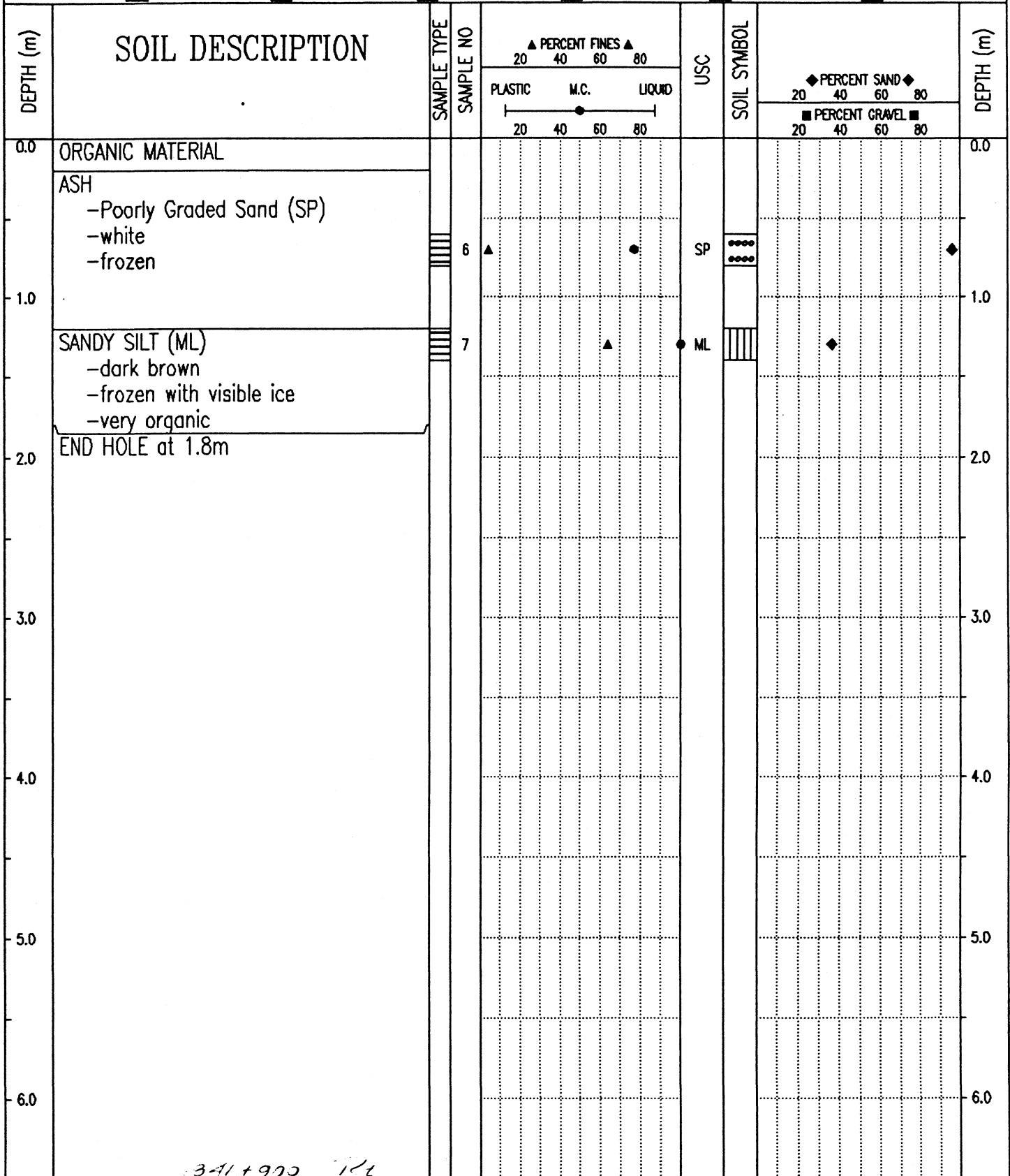
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	-no sample taken										0.0	
1.0	END HOLE at 1.0m -refusal -in existing ditch -rock on surface nearby										1.0	
2.0											2.0	
3.0											3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	

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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 1.0 m  
COMPLETE: 94/10/20

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT	TEST HOLE NO: 320-08
ENGINEERING-CAPITAL		SEGMENT 14	Project No: 092-202101-0314
BACKHOE: CAT 225		LOCATION: See Plan	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



341 + 900 1/2  
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LOGGED BY: DA  
 REVIEWED BY:  
 Fig. No:  
 COMPLETION DEPTH: 1.8 m  
 COMPLETE: 94/09/30  
 Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 337-13
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1841+950 o/s 60m 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	ASH										0.0
	ORGANIC MATERIAL -frozen										
1.0											1.0
	END HOLE at 1.6m -refusal										
2.0											2.0
3.0											3.0
4.0											4.0
5.0											5.0
6.0											6.0

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LOGGED BY: GC  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 1.6 m  
COMPLETE: 94/10/21

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 320-07
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
BACKHOE: CAT 225	LOCATION: See Plan	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									0.0	
	ASH -white -frozen										
1.0										1.0	
	ORGANIC SILT -dark brown -frozen with visible ice										
2.0	END HOLE at 2.0m -refusal									2.0	
3.0										3.0	
4.0										4.0	
5.0										5.0	
6.0										6.0	

3-11-93

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REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 2.0 m

COMPLETE: 94/09/30

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 337-14
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1842+050 o/s 60m 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	ASH AND ORGANIC MATERIAL										0.0	
1.0											1.0	
2.0	END HOLE at 1.4m -refusal										2.0	
3.0											3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	

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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 1.4 m  
COMPLETE: 94/10/21

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 320-06
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
BACKHOE: CAT 225	LOCATION: See Plan	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									0.0	
	ASH										
	-white										
	-frozen										
1.0										1.0	
	END HOLE at 1.3m										
	-refusal										
2.0										2.0	
3.0										3.0	
4.0										4.0	
5.0										5.0	
6.0										6.0	

1342 +100 TLE

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LOGGED BY: DA	COMPLETION DEPTH: 1.3 m
REVIEWED BY:	COMPLETE: 94/09/30
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 320-05
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
BACKHOE: CAT 225	LOCATION: See Plan	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 ASH -white -damp										0.0
1.0	SANDY SILT WITH GRAVEL (ML) -dark gray-brown -frozen -large rock fragments		5	●	▲		ML	■			1.0
2.0											2.0
3.0	END HOLE at 2.3m -on old trail										3.0
4.0											4.0
5.0											5.0
6.0											6.0

1342+200 RL

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LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 2.3 m  
COMPLETE: 94/09/29

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 320-04
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
BACKHOE: CAT 225	LOCATION: See Plan	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									0.0	
0.0 - 1.0	SILT -dark gray -damp -large rock fragments										
1.0 - 2.0											
2.0	END HOLE at 1.8m -refusal -major rock outcrops on surface -on clearing access trail -halfway up sidehill									2.0	
2.0 - 3.0											
3.0 - 4.0											
4.0 - 5.0											
5.0 - 6.0											
6.0										6.0	

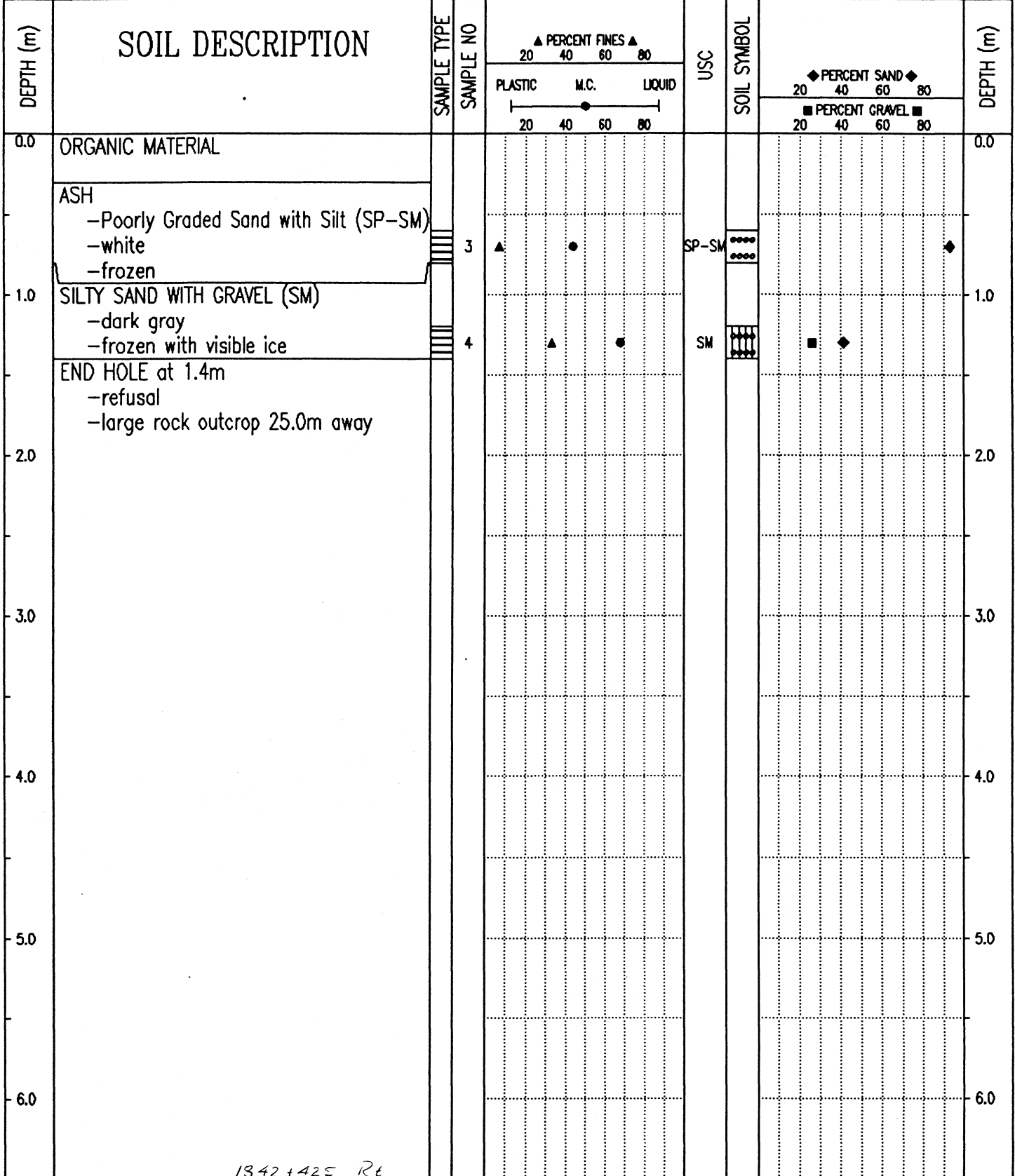
1342 + 300 RL

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LOGGED BY: DA	COMPLETION DEPTH: 1.8 m
REVIEWED BY:	COMPLETE: 94/09/29
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 320-03
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
BACKHOE: CAT 225	LOCATION: See Plan	ELEVATION: 0.00 (m)

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



1342+425 R6

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LOGGED BY: DA	COMPLETION DEPTH: 1.4 m
REVIEWED BY:	COMPLETE: 94/09/29
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 337-06
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1842+440	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 SILT END HOLE at 0.3m -refusal -rock on surface nearby										0.0	
1.0											1.0	
2.0											2.0	
3.0											3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	

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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 0.3 m  
COMPLETE: 94/10/20

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 320-02
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
BACKHOE: CAT 225	LOCATION: See Plan	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	DEPTH (m)
				PLASTIC	M.C.	LIQUID			
0.0	ORGANIC MATERIAL								0.0
	ASH								
	-white								
	-damp								
1.0	-frozen below 1.0m								1.0
	END HOLE at 1.2m								
	-refusal								
	-rock outcrop on surface 10.0m away								
2.0									2.0
3.0									3.0
4.0									4.0
5.0									5.0
6.0									6.0

1942+500 Re

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Fig. No:

COMPLETION DEPTH: 1.2 m

COMPLETE: 94/09/29

Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 337-05
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1842+525 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		

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									0.0	
	ASH										
	SILT WITH SAND (ML) -mostly ice and organics										
1.0		<input checked="" type="checkbox"/>	9				ML			1.0	
	-rough drilling below 1.6m										
2.0										2.0	
	END HOLE at 2.2m -refusal										
3.0										3.0	
4.0										4.0	
5.0										5.0	
6.0										6.0	

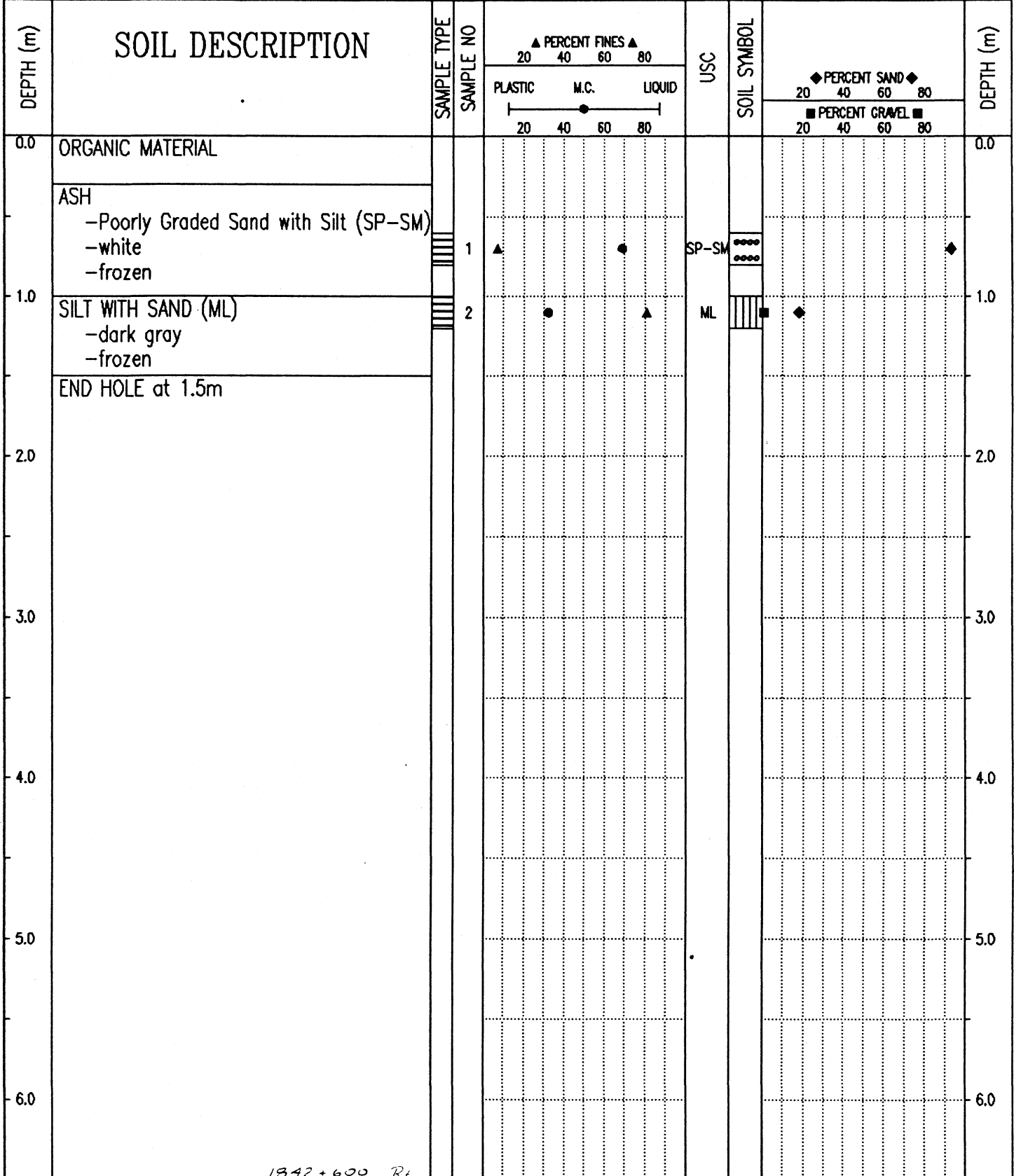
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LOGGED BY: GC	COMPLETION DEPTH: 2.2 m
REVIEWED BY:	COMPLETE: 94/10/20
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT		TEST HOLE NO: 337-04						
ENGINEERING-CAPITAL		SEGMENT 14		Project No: 092-202101-0314						
DRILL: B40L 150mm SOLID STEM AUGER		LOCATION: Sta. 1842+575		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE			
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆	■ PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.					
0.0	ORGANIC MATERIAL									0.0
	ASH									
1.0	SILTY GRAVEL WITH SAND (GM) -moist -rough drilling	<input checked="" type="checkbox"/>	8			GM				1.0
2.0	END HOLE at 2.0m -refusal									2.0
3.0										3.0
4.0										4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: GC REVIEWED BY: Fig. No:		COMPLETION DEPTH: 2.0 m COMPLETE: 94/10/20				

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 320-01
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
BACKHOE: CAT 225	LOCATION: See Plan	ELEVATION: 0.00 (m)

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



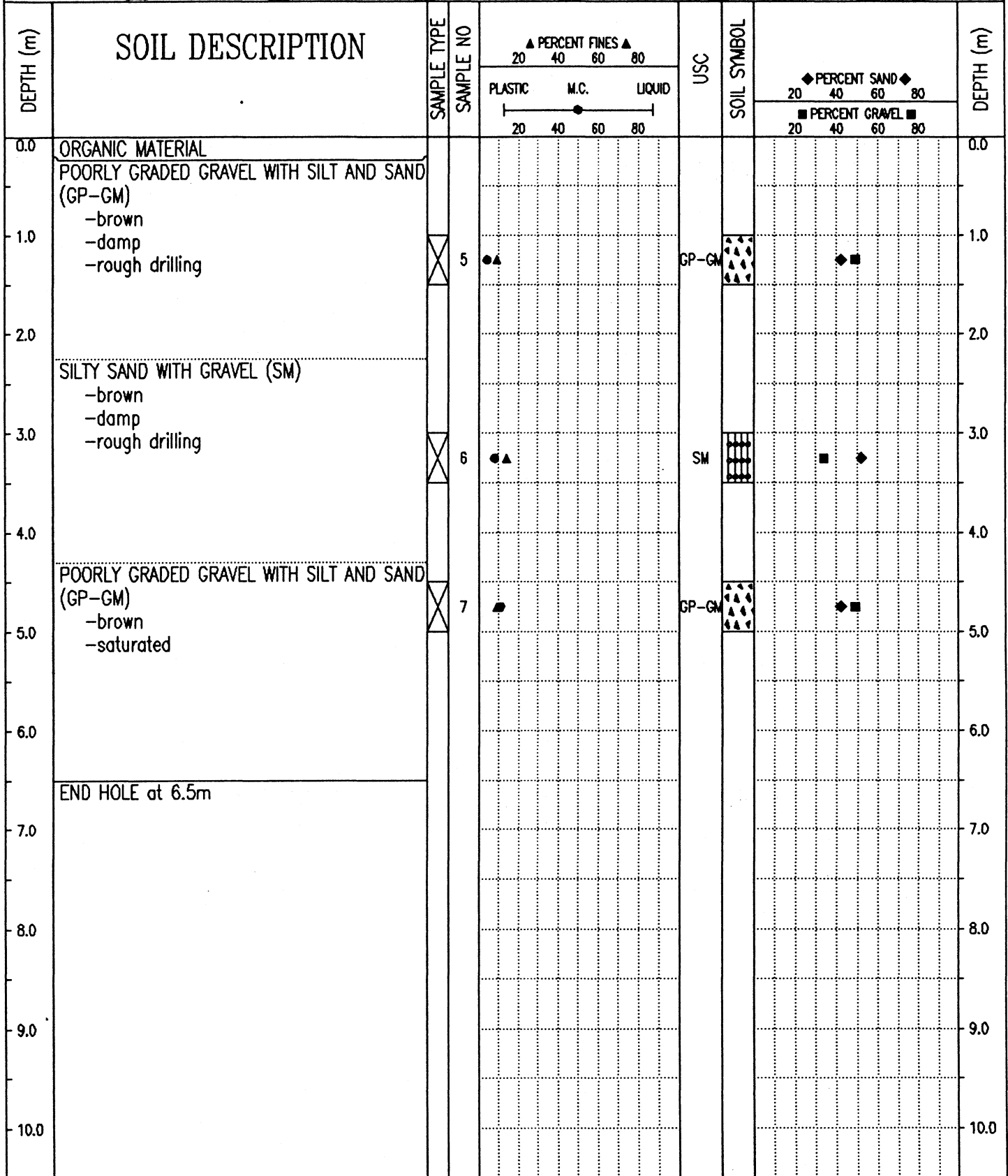
1842+600 R<sub>L</sub>

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Transportation Engineering

LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 1.5 m  
COMPLETE: 94/09/29  
Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 337-03
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1842+625 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	

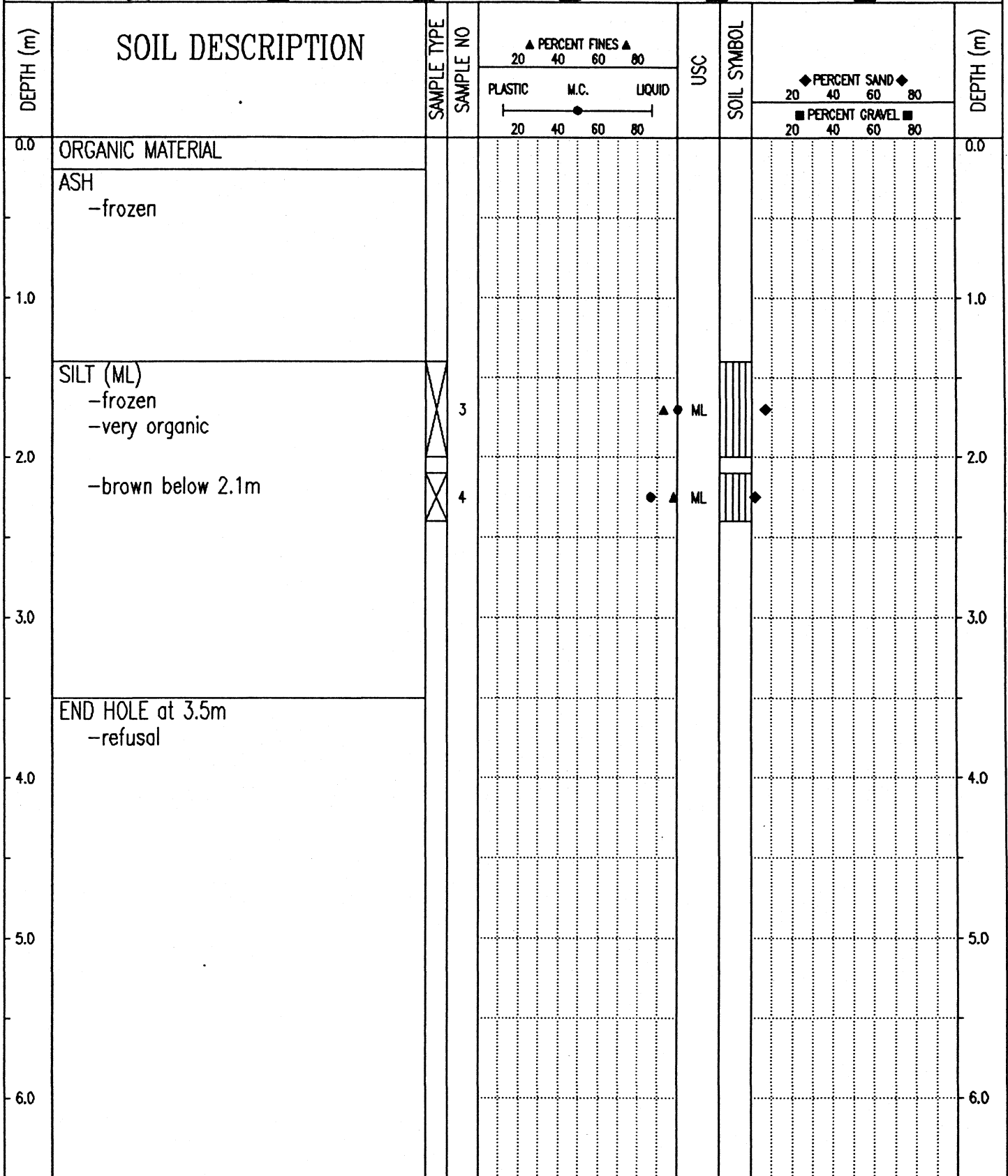


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LOGGED BY: GC  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 6.5 m  
COMPLETE: 94/10/20

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 337-02
ENGINEERING-CAPITAL	SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1842+700	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: GC	COMPLETION DEPTH: 3.5 m
REVIEWED BY:	COMPLETE: 94/10/20
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT	TEST HOLE NO: 591-03
ENGINEERING-CAPITAL		SEGMENT 14	Project No: 092-202101-0314
DRILL: B40L 150mm SOLID STEM AUGER		LOCATION: Sta. 1843+370	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
			<input type="checkbox"/> BULK
			<input type="checkbox"/> TUBE
			<input type="checkbox"/> CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		DEPTH (m)
				20	40	60			80	20	40	60	
0.0	POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM) -brown -damp -road fill											0.0	
1.0	-jumpy drilling below 1.0m	<input checked="" type="checkbox"/>	20	▲			SP-SM	◆				1.0	
2.0	POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM) -brown -damp -easier drilling	<input checked="" type="checkbox"/>	21	▲			GP-GM	◆				2.0	
3.0	POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM) -brown -moist -wet below 3.4m											3.0	
4.0	-jumper drilling below 3.8m	<input checked="" type="checkbox"/>	22	▲			SP-SM	◆				4.0	
5.0	WELL-GRADED GRAVEL WITH SILT AND SAND (GW-GM) -brownish gray -very easy drilling	<input checked="" type="checkbox"/>	23	▲			GW-GM	◆				5.0	
5.0	END HOLE at 5.0m -on road											5.0	
6.0												6.0	

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LOGGED BY: LW

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 5.0 m

COMPLETE: 83/06/01

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PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 320-01  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: BACKHOE: CAT 225  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.08.29

FIELD NO: 1  
 LAB NO: 2415  
 DEPTH: 0.6-0.8  
 TYPE: BULK  
 ASH

FIELD NO: 2  
 LAB NO: 2416  
 DEPTH: 1.0-1.2  
 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	100
2.0	--
1.25	97
0.840	--
0.630	64
0.420	--
0.315	18
0.160	7
0.150	--
0.080	7

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	94
0.420	--
0.315	89
0.160	84
0.150	--
0.080	81

M.C. (%): 69

M.C. (%): 32

LIMITS

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

LIMITS

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

% GRAVEL: 0  
 % SAND: 93  
 % FINES: 7

% GRAVEL: 1  
 % SAND: 18  
 % FINES: 81

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

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 320-03  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: BACKHOE: CAT 225  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.08.29

FIELD NO: 3  
 LAB NO: 2417  
 DEPTH: 0.6-0.8  
 TYPE: BULK  
 ASH

FIELD NO: 4  
 LAB NO: 2418  
 DEPTH: 1.2-1.4  
 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	100
2.0	--
1.25	95
0.840	--
0.630	66
0.420	--
0.315	21
0.160	7
0.150	--
0.080	7

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	89
10.0	82
5.0	74
2.5	68
2.0	--
1.25	61
0.840	--
0.630	54
0.420	--
0.315	47
0.160	40
0.150	--
0.080	33

M.C. (%): 44

M.C. (%): 68

LIMITS

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

LIMITS

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

% GRAVEL: 0  
 % SAND: 93  
 % FINES: 7

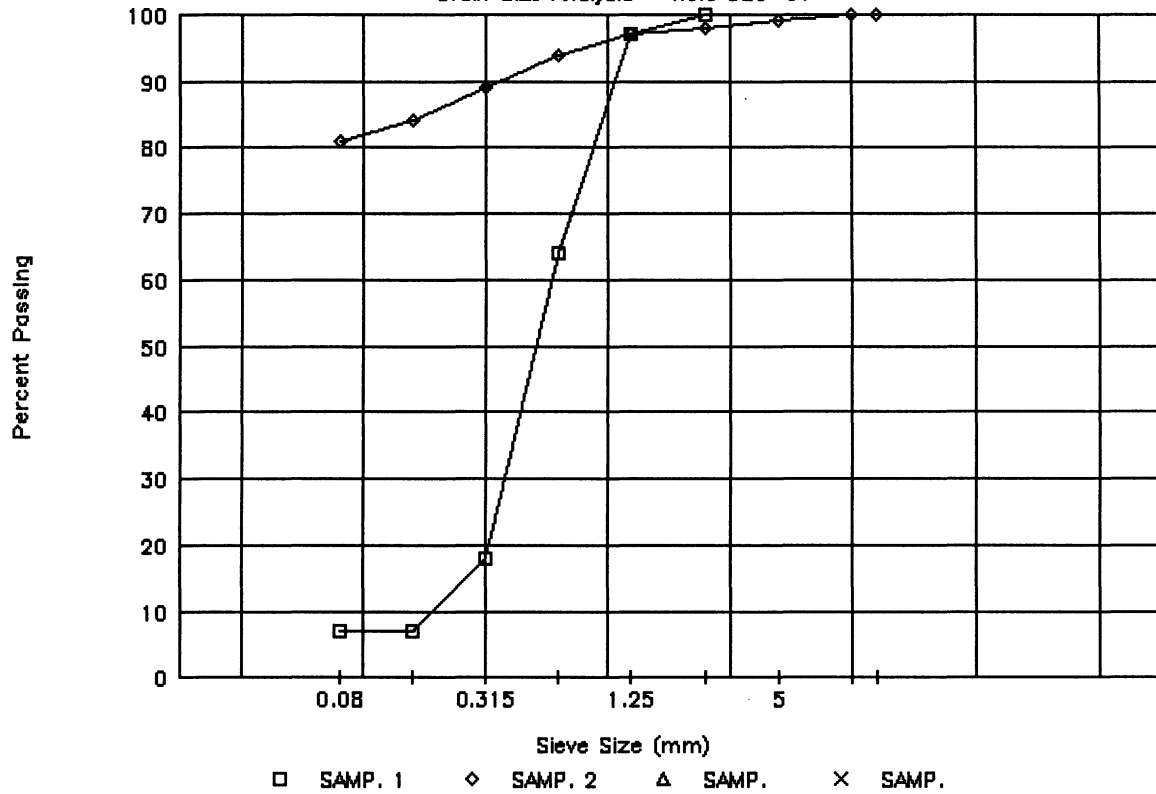
% GRAVEL: 26  
 % SAND: 41  
 % FINES: 33

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

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

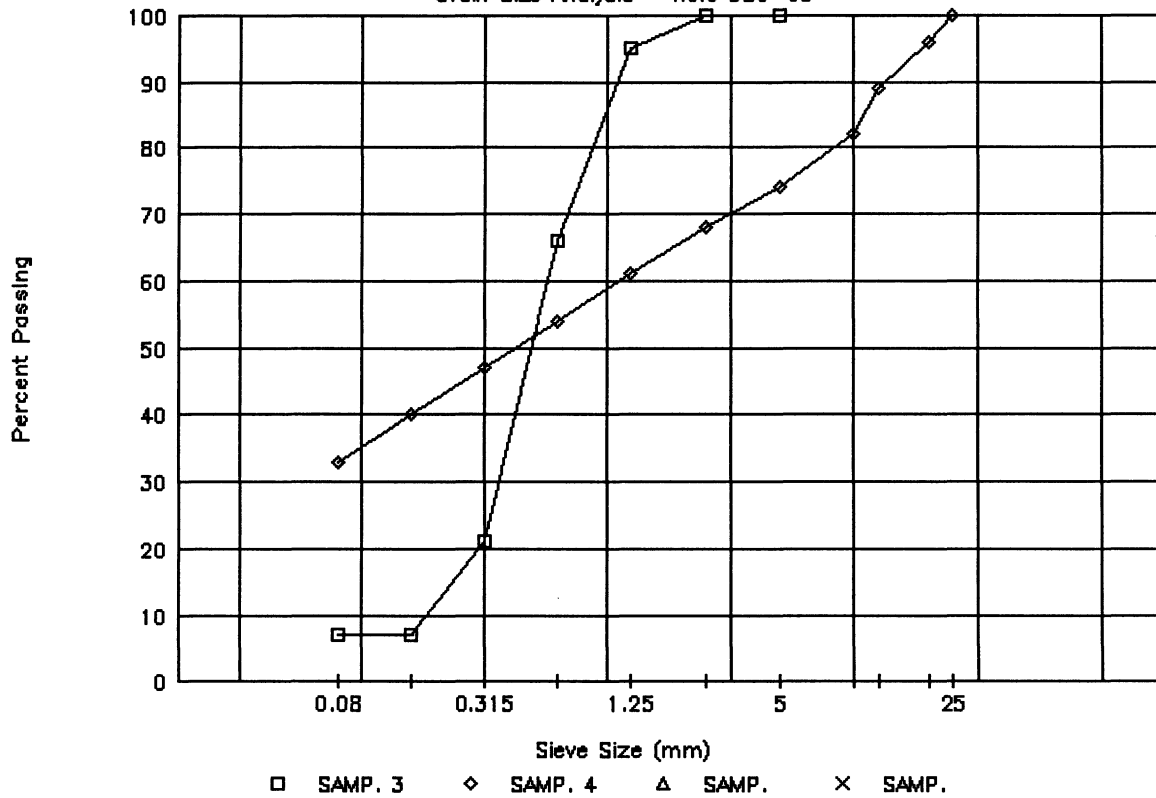
# Y.T.G. TRANSPORTATION ENGINEERING

## Grain Size Analysis - Hole 320-01



# Y.T.G. TRANSPORTATION ENGINEERING

## Grain Size Analysis - Hole 320-03



PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 320-05  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: BACKHOE: CAT 225  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.08.29

FIELD NO: 5  
 LAB NO: 2419  
 DEPTH: 1.2-1.4  
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	87
20.0	84
12.5	82
10.0	81
5.0	77
2.5	73
2.0	--
1.25	69
0.840	--
0.630	65
0.420	--
0.315	61
0.160	56
0.150	--
0.080	51

M.C. (%): 35

LIMITS

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

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

CLASSIFICATION:  
 SANDY SILT WITH  
 GRAVEL (ML)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 320-08  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: BACKHOE: CAT 225  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.08.30

FIELD NO: 6  
 LAB NO: 2420  
 DEPTH: 0.6-0.8  
 TYPE: BULK  
 ASH

FIELD NO: 7  
 LAB NO: 2421  
 DEPTH: 1.2-1.4  
 TYPE: BULK  
 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	100
2.0	--
1.25	98
0.840	--
0.630	67
0.420	--
0.315	16
0.160	4
0.150	--
0.080	4

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	87
0.160	73
0.150	--
0.080	64

M.C. (%): 77

M.C. (%): 262

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

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

% GRAVEL: 0  
 % SAND: 96  
 % FINES: 4

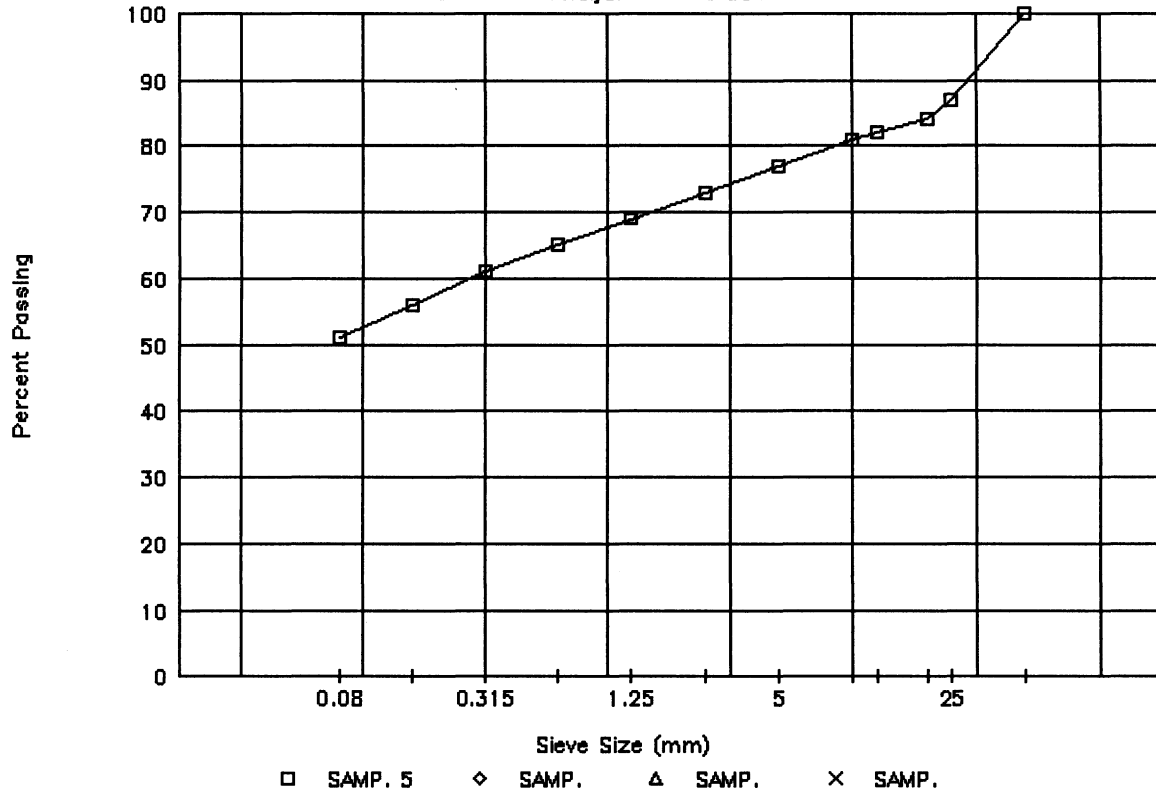
% GRAVEL: 0  
 % SAND: 36  
 % FINES: 64

CLASSIFICATION:  
 POORLY GRADED  
 SAND (SP)

CLASSIFICATION:  
 SANDY SILT (ML)

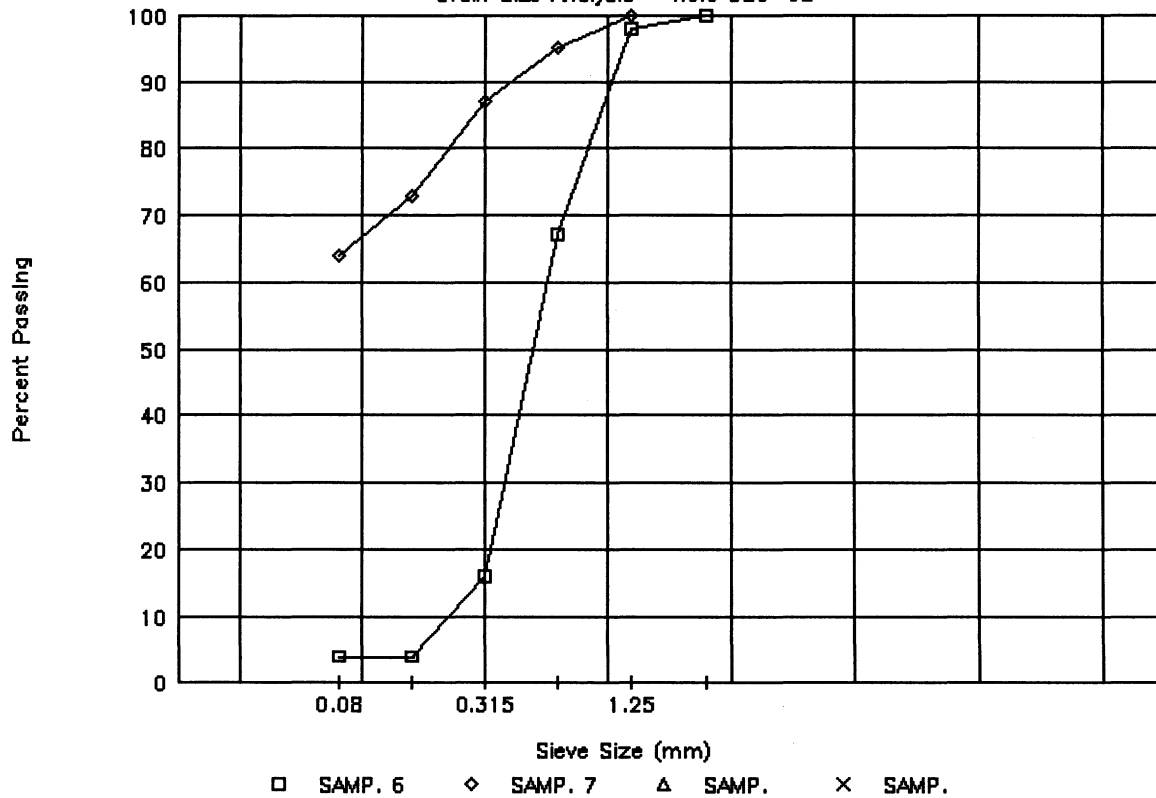
# Y.T.G. TRANSPORTATION ENGINEERING

## Grain Size Analysis - Hole 320-05



# Y.T.G. TRANSPORTATION ENGINEERING

## Grain Size Analysis - Hole 320-08



PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 320-10  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: BACKHOE: CAT 225  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.08.30

FIELD NO: 8  
 LAB NO: 2422  
 DEPTH: 1.2-1.4  
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	89
20.0	85
12.5	75
10.0	71
5.0	59
2.5	50
2.0	--
1.25	43
0.840	--
0.630	36
0.420	--
0.315	29
0.160	23
0.150	--
0.080	18

M.C. (%): 11

LIMITS

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

% GRAVEL: 41  
 % SAND: 41  
 % FINES: 18

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 320-11  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: BACKHOE: CAT 225  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.08.30

FIELD NO: 9  
 LAB NO: 2423  
 DEPTH: 1.2-1.4  
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	89
20.0	80
12.5	71
10.0	66
5.0	51
2.5	38
2.0	--
1.25	29
0.840	--
0.630	22
0.420	--
0.315	17
0.160	12
0.150	--
0.080	9

M.C. (%): 9

LIMITS

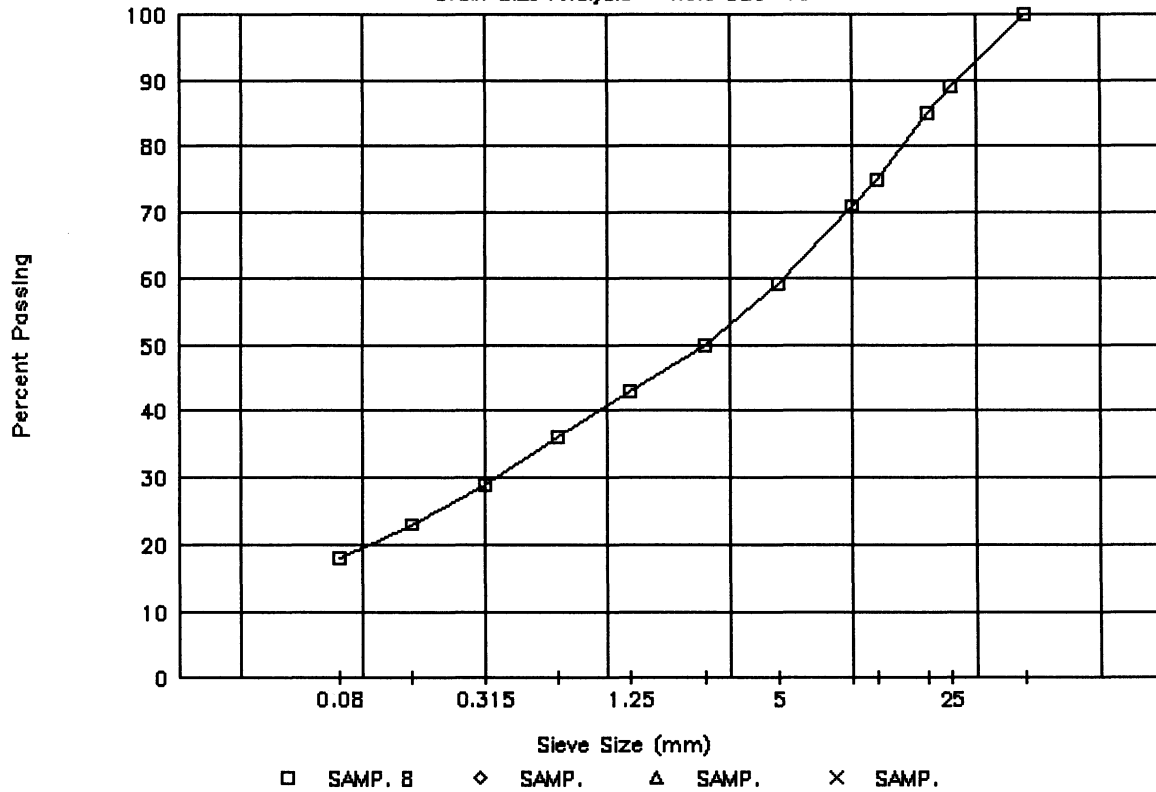
LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 49  
 % SAND: 41  
 % FINES: 9

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

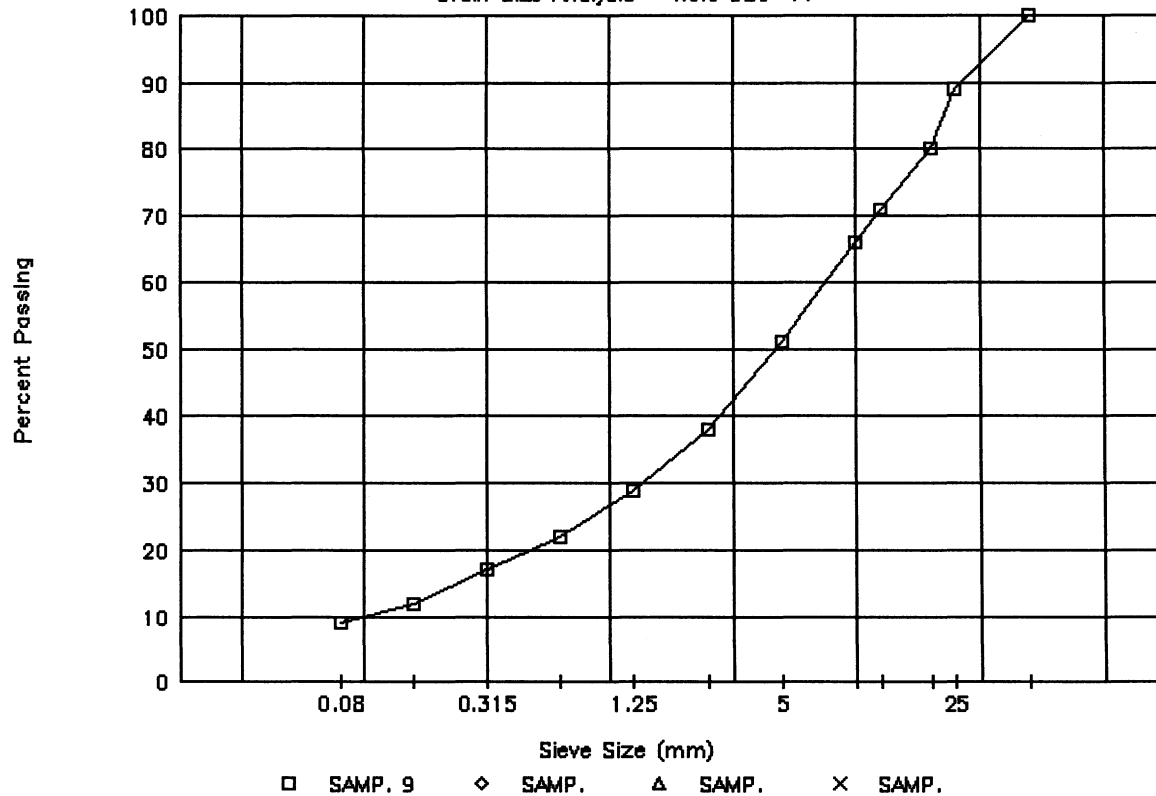
# Y.T.G. TRANSPORTATION ENGINEERING

## Grain Size Analysis - Hole 320-10



# Y.T.G. TRANSPORTATION ENGINEERING

## Grain Size Analysis - Hole 320-11



PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 320-13  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: BACKHOE: CAT 225  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.08.30

FIELD NO: 10  
 LAB NO: 2424  
 DEPTH: 1.4-1.8  
 TYPE: BULK

FIELD NO: 11  
 LAB NO: 2425  
 DEPTH: 2.6-3.0  
 TYPE: BULK

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	96
2.5	94
2.0	--
1.25	89
0.840	--
0.630	78
0.420	--
0.315	67
0.160	51
0.150	--
0.080	26

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	97
2.0	--
1.25	92
0.840	--
0.630	81
0.420	--
0.315	70
0.160	60
0.150	--
0.080	33

M.C. (%): 8

M.C. (%): 9

LIMITS

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

LIMITS

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

% GRAVEL: 4  
 % SAND: 70  
 % FINES: 26

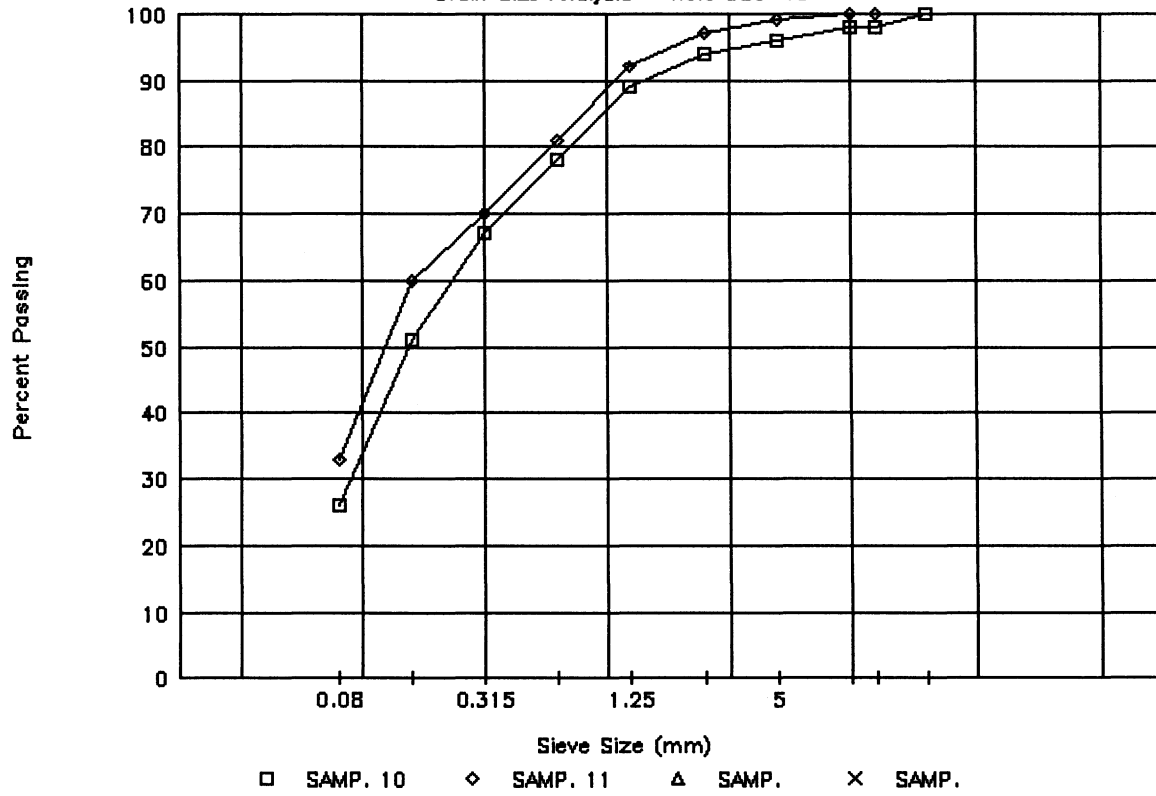
% GRAVEL: 1  
 % SAND: 66  
 % FINES: 33

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY SAND (SM)

# Y.T.G. TRANSPORTATION ENGINEERING

## Grain Size Analysis - Hole 320-13



PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 337-02  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1842+700  
 LOGGED BY: GC DATE COMPLETED: 94.10.20

FIELD NO: 3  
 LAB NO: 2121  
 DEPTH: 1.4-2.0  
 TYPE: AUGER

FIELD NO: 4  
 LAB NO: 2122  
 DEPTH: 2.1-2.2  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	98
0.160	95
0.150	--
0.080	93

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	99
0.150	--
0.080	98

M.C. (%): 209

M.C. (%): 87

LIMITS

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

LIMITS

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

% GRAVEL: 0  
 % SAND: 7  
 % FINES: 93

% GRAVEL: 0  
 % SAND: 2  
 % FINES: 98

CLASSIFICATION:  
 SILT (ML)

CLASSIFICATION:  
 SILT (ML)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 337-03  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1842+625 O/S 20M RT  
 LOGGED BY: GC DATE COMPLETED: 94.10.20

FIELD NO: 5  
 LAB NO: 2123  
 DEPTH: 1.0-1.5  
 TYPE: AUGER

FIELD NO: 6  
 LAB NO: 2124  
 DEPTH: 3.0-3.25  
 TYPE: AUGER

FIELD NO: 7  
 LAB NO: 2125  
 DEPTH: 4.5-5.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	65
20.0	64
12.5	61
10.0	58
5.0	51
2.5	47
2.0	--
1.25	43
0.840	--
0.630	39
0.420	--
0.315	30
0.160	18
0.150	--
0.080	9

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	89
12.5	80
10.0	77
5.0	66
2.5	58
2.0	--
1.25	53
0.840	--
0.630	46
0.420	--
0.315	36
0.160	22
0.150	--
0.080	14

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	89
12.5	70
10.0	68
5.0	51
2.5	41
2.0	--
1.25	34
0.840	--
0.630	29
0.420	--
0.315	22
0.160	14
0.150	--
0.080	9

M.C. (%): 4

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: 49  
 % SAND: 42  
 % FINES: 9

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

% GRAVEL: 49  
 % SAND: 42  
 % FINES: 9

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

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

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

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 337-04  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1842+575  
 LOGGED BY: GC DATE COMPLETED: 94.10.20

FIELD NO: 8  
 LAB NO: 2126  
 DEPTH: 1.0-1.4  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	87
12.5	70
10.0	65
5.0	53
2.5	45
2.0	--
1.25	39
0.840	--
0.630	33
0.420	--
0.315	28
0.160	23
0.150	--
0.080	19

M.C. (%): 18

LIMITS

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

% GRAVEL: 47  
 % SAND: 34  
 % FINES: 19

CLASSIFICATION:  
 SILTY GRAVEL  
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 337-05  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1842+525 O/S 10M RT  
 LOGGED BY: GC DATE COMPLETED: 94.10.20

FIELD NO: 9  
 LAB NO: 2127  
 DEPTH: 1.0-1.2  
 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	96
2.5	95
2.0	--
1.25	92
0.840	--
0.630	89
0.420	--
0.315	85
0.160	80
0.150	--
0.080	75

M.C. (%): 189

LIMITS

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

% GRAVEL: 4  
 % SAND: 21  
 % FINES: 75

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 337-08  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1841+425 O/S 15M RT  
 LOGGED BY: GC DATE COMPLETED: 94.10.20

FIELD NO: 10  
 LAB NO: 2128  
 DEPTH: 2.5-3.0  
 TYPE: AUGER

FIELD NO: 11  
 LAB NO: 2129  
 DEPTH: 6.0-6.5  
 TYPE: AUGER

FIELD NO: 12  
 LAB NO: 2130  
 DEPTH: 7.0-7.5  
 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	95
2.0	--
1.25	82
0.840	--
0.630	51
0.420	--
0.315	22
0.160	10
0.150	--
0.080	6

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	98
0.160	86
0.150	--
0.080	52

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	99
12.5	91
10.0	87
5.0	76
2.5	66
2.0	--
1.25	59
0.840	--
0.630	52
0.420	--
0.315	40
0.160	26
0.150	--
0.080	17

M.C. (%): 18

M.C. (%): 25

M.C. (%): 14

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

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

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

% GRAVEL: 2  
 % SAND: 91  
 % FINES: 6

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

% GRAVEL: 24  
 % SAND: 59  
 % FINES: 17

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

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 337-09  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1841+510 O/S 20M RT  
 LOGGED BY: GC DATE COMPLETED: 94.10.20

FIELD NO: 13  
 LAB NO: 2131  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

FIELD NO: 14  
 LAB NO: 2132  
 DEPTH: 4.0-5.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	85
10.0	78
5.0	64
2.5	55
2.0	--
1.25	48
0.840	--
0.630	42
0.420	--
0.315	35
0.160	29
0.150	--
0.080	23

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	89
20.0	89
12.5	84
10.0	81
5.0	71
2.5	64
2.0	--
1.25	59
0.840	--
0.630	54
0.420	--
0.315	47
0.160	40
0.150	--
0.080	33

M.C. (%): 15

M.C. (%): 13

LIMITS

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

LIMITS

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

% GRAVEL: 36  
 % SAND: 41  
 % FINES: 23

% GRAVEL: 29  
 % SAND: 39  
 % FINES: 33

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 337-10  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1841+610 O/S 15M RT  
 LOGGED BY: GC DATE COMPLETED: 94.10.20

FIELD NO: 15  
 LAB NO: 2133  
 DEPTH: 2.4-2.8  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	92
10.0	88
5.0	75
2.5	63
2.0	--
1.25	55
0.840	--
0.630	48
0.420	--
0.315	40
0.160	32
0.150	--
0.080	26

M.C. (%): 16

LIMITS

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

% GRAVEL: 25  
 % SAND: 49  
 % FINES: 26

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 337-11  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1841+715 O/S 20M RT  
 LOGGED BY: GC DATE COMPLETED: 94.10.20

FIELD NO: 16  
 LAB NO: 2134  
 DEPTH: 1.0-1.4  
 TYPE: AUGER

FIELD NO: 17  
 LAB NO: 2135  
 DEPTH: 2.6-3.0  
 TYPE: AUGER

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

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	96
10.0	93
5.0	86
2.5	79
2.0	--
1.25	71
0.840	--
0.630	63
0.420	--
0.315	53
0.160	43
0.150	--
0.080	33

M.C. (%): 30

LIMITS

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

% GRAVEL: 14  
 % SAND: 54  
 % FINES: 33

CLASSIFICATION:  
 SILTY SAND (SM)

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

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	90
10.0	85
5.0	72
2.5	62
2.0	--
1.25	55
0.840	--
0.630	49
0.420	--
0.315	41
0.160	33
0.150	--
0.080	27

M.C. (%): 19

LIMITS

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

% GRAVEL: 28  
 % SAND: 45  
 % FINES: 27

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 337-15  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1841+335 O/S 15M RT  
 LOGGED BY: GC DATE COMPLETED: 94.10.20

FIELD NO: 18  
 LAB NO: 2136  
 DEPTH: 2.6-3.0  
 TYPE: AUGER

FIELD NO: 19  
 LAB NO: 2137  
 DEPTH: 4.0-4.5  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	98
5.0	90
2.5	84
2.0	--
1.25	78
0.840	--
0.630	72
0.420	--
0.315	64
0.160	56
0.150	--
0.080	47

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	98
5.0	93
2.5	87
2.0	--
1.25	81
0.840	--
0.630	75
0.420	--
0.315	67
0.160	57
0.150	--
0.080	46

M.C. (%): 57

M.C. (%): 28

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

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

% GRAVEL: 10  
 % SAND: 43  
 % FINES: 47

% GRAVEL: 7  
 % SAND: 47  
 % FINES: 46

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 337-16  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1841+215 O/S 12M RT  
 LOGGED BY: GC DATE COMPLETED: 94.10.20

FIELD NO: 20  
 LAB NO: 2138  
 DEPTH: 4.2-4.5  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	93
12.5	91
10.0	89
5.0	83
2.5	72
2.0	--
1.25	63
0.840	--
0.630	55
0.420	--
0.315	46
0.160	37
0.150	--
0.080	28

M.C. (%): 38

LIMITS

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

% GRAVEL: 17  
 % SAND: 54  
 % FINES: 28

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 337-17  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1841+100 O/S 10M RT  
 LOGGED BY: GC DATE COMPLETED: 94.10.20

FIELD NO: 21  
 LAB NO: 2139  
 DEPTH: 4.0-4.5  
 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	98
0.840	--
0.630	96
0.420	--
0.315	93
0.160	89
0.150	--
0.080	83

M.C. (%): 69

LIMITS

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

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

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 337-18  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1840+950 O/S 15M RT  
 LOGGED BY: GC DATE COMPLETED: 94.10.20

FIELD NO: 22  
 LAB NO: 2140  
 DEPTH: 2.8-3.2  
 TYPE: AUGER

FIELD NO: 23  
 LAB NO: 2141  
 DEPTH: 4.0-4.2  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	96
12.5	90
10.0	85
5.0	75
2.5	63
2.0	--
1.25	52
0.840	--
0.630	42
0.420	--
0.315	31
0.160	23
0.150	--
0.080	19

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	92
10.0	86
5.0	71
2.5	58
2.0	--
1.25	48
0.840	--
0.630	40
0.420	--
0.315	31
0.160	23
0.150	--
0.080	17

M.C. (%): 15

M.C. (%): 13

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

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

% GRAVEL: 25  
 % SAND: 56  
 % FINES: 19

% GRAVEL: 29  
 % SAND: 54  
 % FINES: 17

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 337-19  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1840+850 O/S 15M RT  
 LOGGED BY: GC DATE COMPLETED: 94.10.21

FIELD NO: 24  
 LAB NO: 2142  
 DEPTH: 3.8-4.2  
 TYPE: AUGER

FIELD NO: 25  
 LAB NO: 2143  
 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	84
10.0	78
5.0	66
2.5	58
2.0	--
1.25	52
0.840	--
0.630	47
0.420	--
0.315	40
0.160	35
0.150	--
0.080	31

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	87
20.0	83
12.5	75
10.0	70
5.0	60
2.5	51
2.0	--
1.25	44
0.840	--
0.630	37
0.420	--
0.315	30
0.160	25
0.150	--
0.080	21

M.C. (%): 27

M.C. (%): 15

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

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

% GRAVEL: 34  
 % SAND: 35  
 % FINES: 31

% GRAVEL: 40  
 % SAND: 39  
 % FINES: 21

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

CLASSIFICATION:  
 SILTY GRAVEL  
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 337-20  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1840+750 O/S 15M RT  
 LOGGED BY: GC DATE COMPLETED: 94.10.21

FIELD NO: 26  
 LAB NO: 2144  
 DEPTH: 1.0-1.4  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	90
20.0	88
12.5	77
10.0	72
5.0	62
2.5	54
2.0	--
1.25	47
0.840	--
0.630	41
0.420	--
0.315	35
0.160	29
0.150	--
0.080	25

M.C. (%): 35

LIMITS

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

% GRAVEL: 38  
 % SAND: 38  
 % FINES: 25

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 337-21  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1840+650 O/S 15M RT  
 LOGGED BY: GC DATE COMPLETED: 94.10.21

FIELD NO: 27  
 LAB NO: 2145  
 DEPTH: 2.6-3.0  
 TYPE: AUGER

FIELD NO: 28  
 LAB NO: 2146  
 DEPTH: 3.6-4.0  
 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	96
2.5	94
2.0	--
1.25	93
0.840	--
0.630	92
0.420	--
0.315	90
0.160	88
0.150	--
0.080	85

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	98
5.0	91
2.5	81
2.0	--
1.25	71
0.840	--
0.630	63
0.420	--
0.315	55
0.160	45
0.150	--
0.080	35

M.C. (%): 54

M.C. (%): 16

LIMITS

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

LIMITS

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

% GRAVEL: 4  
 % SAND: 11  
 % FINES: 85

% GRAVEL: 9  
 % SAND: 56  
 % FINES: 35

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 338-22  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1840+500 O/S 15M RT  
 LOGGED BY: GC DATE COMPLETED: 94.10.22

FIELD NO: 29  
 LAB NO: 2147  
 DEPTH: 2.6-3.0  
 TYPE: AUGER

FIELD NO: 30  
 LAB NO: 2148  
 DEPTH: 4.0-4.4  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	88
10.0	78
5.0	61
2.5	48
2.0	--
1.25	40
0.840	--
0.630	34
0.420	--
0.315	27
0.160	21
0.150	--
0.080	16

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	98
20.0	95
12.5	88
10.0	83
5.0	68
2.5	55
2.0	--
1.25	46
0.840	--
0.630	38
0.420	--
0.315	29
0.160	22
0.150	--
0.080	16

M.C. (%): 16

M.C. (%): 14

LIMITS

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

LIMITS

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

% GRAVEL: 39  
 % SAND: 45  
 % FINES: 16

% GRAVEL: 32  
 % SAND: 51  
 % FINES: 16

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 338-23  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1840+450 O/S 17M RT  
 LOGGED BY: GC DATE COMPLETED: 94.10.22

FIELD NO: 31  
 LAB NO: 2149  
 DEPTH: 3.2-3.6  
 TYPE: AUGER

FIELD NO: 32  
 LAB NO: 2150  
 DEPTH: 4.2-4.5  
 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	100
2.0	--
1.25	99
0.840	--
0.630	99
0.420	--
0.315	98
0.160	97
0.150	--
0.080	95

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	80
10.0	75
5.0	63
2.5	53
2.0	--
1.25	45
0.840	--
0.630	36
0.420	--
0.315	27
0.160	22
0.150	--
0.080	17

M.C. (%): 83

M.C. (%): 15

LIMITS

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

LIMITS

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

% GRAVEL: 0  
 % SAND: 5  
 % FINES: 95

% GRAVEL: 37  
 % SAND: 46  
 % FINES: 17

CLASSIFICATION:  
 SILT (ML)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 338-25  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1840+375 O/S 12M RT  
 LOGGED BY: GC DATE COMPLETED: 94.10.22

FIELD NO: 33  
 LAB NO: 2151  
 DEPTH: 3.8-4.2  
 TYPE: AUGER

FIELD NO: 34  
 LAB NO: 2152  
 DEPTH: 5.6-6.0  
 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	96
2.5	90
2.0	--
1.25	81
0.840	--
0.630	72
0.420	--
0.315	64
0.160	56
0.150	--
0.080	49

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	98
10.0	96
5.0	93
2.5	89
2.0	--
1.25	83
0.840	--
0.630	77
0.420	--
0.315	71
0.160	64
0.150	--
0.080	57

M.C. (%): 88

M.C. (%): 86

LIMITS

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

LIMITS

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

% GRAVEL: 4  
 % SAND: 47  
 % FINES: 49

% GRAVEL: 7  
 % SAND: 36  
 % FINES: 57

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 338-26  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1840+300 O/S 10M RT  
 LOGGED BY: GC DATE COMPLETED: 94.10.22

FIELD NO: 35  
 LAB NO: 2153  
 DEPTH: 2.6-3.0  
 TYPE: AUGER

FIELD NO: 36  
 LAB NO: 2154  
 DEPTH: 4.2-4.5  
 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	98
0.150	--
0.080	94

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	94
12.5	89
10.0	84
5.0	74
2.5	67
2.0	--
1.25	62
0.840	--
0.630	57
0.420	--
0.315	53
0.160	49
0.150	--
0.080	44

M.C. (%): 62

M.C. (%): 29

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

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

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

% GRAVEL: 26  
 % SAND: 30  
 % FINES: 44

CLASSIFICATION:  
 SILT (ML)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 338-27  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1840+250 O/S 15M RT  
 LOGGED BY: GC DATE COMPLETED: 94.10.22

FIELD NO: 37  
 LAB NO: 2155  
 DEPTH: 2.2-2.6  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	95
12.5	87
10.0	82
5.0	71
2.5	62
2.0	--
1.25	53
0.840	--
0.630	45
0.420	--
0.315	35
0.160	27
0.150	--
0.080	21

M.C. (%): 12

LIMITS

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

% GRAVEL: 29  
 % SAND: 50  
 % FINES: 21

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 338-28  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1840+145 O/S 18M RT  
 LOGGED BY: GC DATE COMPLETED: 94.10.24

FIELD NO: 38  
 LAB NO: 2199  
 DEPTH: 0.8-1.2  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	95
12.5	90
10.0	87
5.0	81
2.5	74
2.0	--
1.25	67
0.840	--
0.630	59
0.420	--
0.315	52
0.160	46
0.150	--
0.080	39

M.C. (%): 19

LIMITS

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

% GRAVEL: 19  
 % SAND: 42  
 % FINES: 39

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 338-29  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1840+075 O/S 16M RT  
 LOGGED BY: GC DATE COMPLETED: 94.10.24

FIELD NO: 39  
 LAB NO: 2156  
 DEPTH: 2.0-2.4  
 TYPE: AUGER  
 ORGANIC MATERIAL

FIELD NO: 40  
 LAB NO: 2157  
 DEPTH: 2.6-3.0  
 TYPE: AUGER

FIELD NO: 41  
 LAB NO: 2158  
 DEPTH: 4.0-4.4  
 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	100
31.5	--
25.0	97
20.0	95
12.5	84
10.0	79
5.0	70
2.5	61
2.0	--
1.25	53
0.840	--
0.630	45
0.420	--
0.315	38
0.160	30
0.150	--
0.080	23

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	92
12.5	90
10.0	87
5.0	83
2.5	76
2.0	--
1.25	70
0.840	--
0.630	64
0.420	--
0.315	57
0.160	50
0.150	--
0.080	35

M.C. (%): 74

M.C. (%): 15

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

% GRAVEL: 30  
 % SAND: 47  
 % FINES: 23

% GRAVEL: 17  
 % SAND: 48  
 % FINES: 35

CLASSIFICATION:

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 338-31  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1839+925  
 LOGGED BY: GC DATE COMPLETED: 94.10.24

FIELD NO: 42  
 LAB NO: 2159  
 DEPTH: 1.2-1.6  
 TYPE: AUGER  
 ORGANIC MATERIAL

FIELD NO: 43  
 LAB NO: 2160  
 DEPTH: 2.2-2.4  
 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	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	98
0.420	--
0.315	96
0.160	93
0.150	--
0.080	90

M.C. (%): 44

M.C. (%): 76

LIMITS

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

LIMITS

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

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

% GRAVEL: 0  
 % SAND: 10  
 % FINES: 90

CLASSIFICATION:

CLASSIFICATION:  
 SILT (ML)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 338-32  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1839+825  
 LOGGED BY: GC DATE COMPLETED: 94.10.24

FIELD NO: 44  
 LAB NO: 2161  
 DEPTH: 2.6-3.0  
 TYPE: AUGER

FIELD NO: 45  
 LAB NO: 2162  
 DEPTH: 4.0-4.4  
 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	100
0.420	--
0.315	99
0.160	98
0.150	--
0.080	78

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	97
0.160	95
0.150	--
0.080	90

M.C. (%): 44

M.C. (%): 79

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

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

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

% GRAVEL: 0  
 % SAND: 10  
 % FINES: 90

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

CLASSIFICATION:  
 SILT (ML)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 338-33  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1839+725  
 LOGGED BY: GC DATE COMPLETED: 94.10.24

FIELD NO: 46  
 LAB NO: 2163  
 DEPTH: 3.0-3.4  
 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	99
0.420	--
0.315	94
0.160	89
0.150	--
0.080	85

M.C. (%): 86

LIMITS

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

% GRAVEL: 0  
 % SAND: 15  
 % FINES: 85

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 338-34  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1839+625  
 LOGGED BY: GC DATE COMPLETED: 94.10.24

FIELD NO: 47  
 LAB NO: 2164  
 DEPTH: 1.2-1.6  
 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	100
2.5	99
2.0	--
1.25	96
0.840	--
0.630	90
0.420	--
0.315	61
0.160	35
0.150	--
0.080	23

M.C. (%): 26

LIMITS

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

% GRAVEL: 0  
 % SAND: 76  
 % FINES: 23

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 338-36  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1839+435  
 LOGGED BY: GC DATE COMPLETED: 94.10.25

FIELD NO: 48  
 LAB NO: 2165  
 DEPTH: 3.6-4.0  
 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	100
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	99
0.160	98
0.150	--
0.080	96

M.C. (%): 103

LIMITS

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

% GRAVEL: 0  
 % SAND: 4  
 % FINES: 96

CLASSIFICATION:  
 SILT (ML)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 338-38  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1838+490 O/S 12M RT  
 LOGGED BY: GC DATE COMPLETED: 94.10.25

FIELD NO: 49  
 LAB NO: 2166  
 DEPTH: 2.4-2.8  
 TYPE: AUGER  
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	98
10.0	96
5.0	92
2.5	87
2.0	--
1.25	83
0.840	--
0.630	76
0.420	--
0.315	65
0.160	58
0.150	--
0.080	54

M.C. (%): 104

LIMITS

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

% GRAVEL: 8  
 % SAND: 38  
 % FINES: 54

CLASSIFICATION:  
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 338-40  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1838+265 O/S 12M RT  
 LOGGED BY: GC DATE COMPLETED: 94.10.25

FIELD NO: 50  
 LAB NO: 2167  
 DEPTH: 2.8-3.8  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	79
12.5	67
10.0	61
5.0	54
2.5	47
2.0	--
1.25	42
0.840	--
0.630	37
0.420	--
0.315	31
0.160	24
0.150	--
0.080	19

M.C. (%): 15

LIMITS

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

% GRAVEL: 46  
 % SAND: 35  
 % FINES: 19

CLASSIFICATION:  
 SILTY GRAVEL  
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 338-41  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1838+150 O/S 15M RT  
 LOGGED BY: GC DATE COMPLETED: 94.10.25

FIELD NO: 51  
 LAB NO: 2168  
 DEPTH: 5.6-6.0  
 TYPE: AUGER  
 ORGANIC MATERIAL

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. (%): 93

LIMITS

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

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

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 338-42  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1838+075 O/S 7M LT  
 LOGGED BY: GC DATE COMPLETED: 94.10.25

FIELD NO: 52  
 LAB NO: 2169  
 DEPTH: 0.6-1.0  
 TYPE: AUGER

FIELD NO: 53  
 LAB NO: 2170  
 DEPTH: 3.0-3.4  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	83
20.0	83
12.5	74
10.0	71
5.0	59
2.5	49
2.0	--
1.25	37
0.840	--
0.630	27
0.420	--
0.315	13
0.160	5
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	91
20.0	89
12.5	83
10.0	79
5.0	71
2.5	63
2.0	--
1.25	56
0.840	--
0.630	46
0.420	--
0.315	22
0.160	8
0.150	--
0.080	5

M.C. (%): 8

M.C. (%): 18

LIMITS

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

LIMITS

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

% GRAVEL: 41  
 % SAND: 56  
 % FINES: 3

% GRAVEL: 29  
 % SAND: 65  
 % FINES: 5

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH GRAVEL  
 (SP)

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

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 338-43  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1837+985 O/S 5M RT  
 LOGGED BY: GC DATE COMPLETED: 94.10.25

FIELD NO: 54  
 LAB NO: 2171  
 DEPTH: 1.0-1.5  
 TYPE: AUGER

FIELD NO: 55  
 LAB NO: 2172  
 DEPTH: 2.6-3.0  
 TYPE: AUGER

FIELD NO: 56  
 LAB NO: 2173  
 DEPTH: 4.0-4.5  
 TYPE: AUGER  
 ORGANIC MATERIAL

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	86
12.5	78
10.0	72
5.0	59
2.5	50
2.0	--
1.25	41
0.840	--
0.630	30
0.420	--
0.315	19
0.160	11
0.150	--
0.080	8

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	98
2.0	--
1.25	94
0.840	--
0.630	86
0.420	--
0.315	65
0.160	32
0.150	--
0.080	18

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. (%): 14

M.C. (%): 33

M.C. (%): 92

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

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

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

% GRAVEL: 41  
 % SAND: 51  
 % FINES: 8

% GRAVEL: 1  
 % SAND: 81  
 % FINES: 18

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

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

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 338-46  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1837+700 O/S 12M RT  
 LOGGED BY: KJ DATE COMPLETED: 94.10.25

FIELD NO: 57  
 LAB NO: 2174  
 DEPTH: 5.5-6.0  
 TYPE: AUGER  
 ORGANIC MATERIAL

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. (%): 228

LIMITS

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

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

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 338-49  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1837+390  
 LOGGED BY: KJ DATE COMPLETED: 94.10.26

FIELD NO: 58  
 LAB NO: 2175  
 DEPTH: 2.0-2.4  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	69
20.0	64
12.5	58
10.0	55
5.0	48
2.5	43
2.0	--
1.25	38
0.840	--
0.630	32
0.420	--
0.315	26
0.160	21
0.150	--
0.080	17

M.C. (%): 17

LIMITS

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

% GRAVEL: 52  
 % SAND: 31  
 % FINES: 17

CLASSIFICATION:  
 SILTY GRAVEL  
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 338-51  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1837+310 O/S 25M RT  
 LOGGED BY: KJ DATE COMPLETED: 94.10.26

FIELD NO: 59  
 LAB NO: 2176  
 DEPTH: 1.8-2.2  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	74
20.0	74
12.5	65
10.0	63
5.0	58
2.5	55
2.0	--
1.25	53
0.840	--
0.630	51
0.420	--
0.315	48
0.160	45
0.150	--
0.080	43

M.C. (%): 49

LIMITS

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

% GRAVEL: 42  
 % SAND: 16  
 % FINES: 43

CLASSIFICATION:  
 SILTY GRAVEL  
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 338-52  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1837+225 O/S 15M RT  
 LOGGED BY: KJ DATE COMPLETED: 94.10.26

FIELD NO: 60  
 LAB NO: 2177  
 DEPTH: 2.4-2.8  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	94
10.0	91
5.0	84
2.5	77
2.0	--
1.25	71
0.840	--
0.630	65
0.420	--
0.315	59
0.160	52
0.150	--
0.080	47

M.C. (%): 32

LIMITS

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

% GRAVEL: 16  
 % SAND: 37  
 % FINES: 47

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 338-53  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1837+125 O/S 12M RT  
 LOGGED BY: KJ DATE COMPLETED: 94.10.26

FIELD NO: 61  
 LAB NO: 2178  
 DEPTH: 2.6-3.0  
 TYPE: AUGER  
 ORGANIC MATERIAL

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. (%): 79

LIMITS

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

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

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 338-59  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1836+700 O/S 20M RT  
 LOGGED BY: KJ DATE COMPLETED: 94.10.26

FIELD NO: 62  
 LAB NO: 2179  
 DEPTH: 2.1-2.5  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	94
12.5	85
10.0	81
5.0	70
2.5	60
2.0	--
1.25	52
0.840	--
0.630	45
0.420	--
0.315	37
0.160	29
0.150	--
0.080	22

M.C. (%): 29

LIMITS

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

% GRAVEL: 30  
 % SAND: 48  
 % FINES: 22

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 338-62  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1836+445 O/S 8M LT  
 LOGGED BY: KJ DATE COMPLETED: 94.10.26

FIELD NO: 63  
 LAB NO: 2180  
 DEPTH: 3.4-4.4  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	60
20.0	54
12.5	51
10.0	49
5.0	44
2.5	39
2.0	--
1.25	35
0.840	--
0.630	32
0.420	--
0.315	28
0.160	24
0.150	--
0.080	20

M.C. (%): 16

LIMITS

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

% GRAVEL: 56  
 % SAND: 24  
 % FINES: 20

CLASSIFICATION:  
 SILTY GRAVEL  
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 338-64  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1836+315 O/S 6M LT  
 LOGGED BY: KJ DATE COMPLETED: 94.10.26

FIELD NO: 64  
 LAB NO: 2181  
 DEPTH: 2.0-2.4  
 TYPE: AUGER  
 ORGANIC MATERIAL

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. (%): 58

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

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

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 338-67  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1836+025 O/S 4M LT  
 LOGGED BY: KJ DATE COMPLETED: 94.10.26

FIELD NO: 65  
 LAB NO: 2182  
 DEPTH: 4.0-4.5  
 TYPE: AUGER  
 ORGANIC MATERIAL

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. (%): 98

LIMITS

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

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

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-74  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1835+375  
 LOGGED BY: KJ DATE COMPLETED: 94.10.27

FIELD NO: 66  
 LAB NO: 2183  
 DEPTH: 4.0-4.5  
 TYPE: AUGER  
 ORGANIC MATERIAL

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. (%): 132

LIMITS

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

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

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-75  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1835+290  
 LOGGED BY: KJ DATE COMPLETED: 94.10.27

FIELD NO: 67  
 LAB NO: 2184  
 DEPTH: 1.3-1.7  
 TYPE: AUGER

FIELD NO: 68  
 LAB NO: 2185  
 DEPTH: 2.8-3.2  
 TYPE: AUGER

FIELD NO: 69  
 LAB NO: 2186  
 DEPTH: 4.0-4.5  
 TYPE: AUGER

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	97
2.5	94
2.0	--
1.25	92
0.840	--
0.630	87
0.420	--
0.315	71
0.160	51
0.150	--
0.080	37

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	93
2.5	86
2.0	--
1.25	82
0.840	--
0.630	78
0.420	--
0.315	69
0.160	55
0.150	--
0.080	41

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	86
10.0	77
5.0	65
2.5	55
2.0	--
1.25	49
0.840	--
0.630	43
0.420	--
0.315	38
0.160	32
0.150	--
0.080	27

M.C. (%): 32

M.C. (%): 45

M.C. (%): 22

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

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

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

% GRAVEL: 3  
 % SAND: 60  
 % FINES: 37

% GRAVEL: 7  
 % SAND: 52  
 % FINES: 41

% GRAVEL: 35  
 % SAND: 38  
 % FINES: 27

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-76  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1835+200 O/S 4M RT  
 LOGGED BY: KJ DATE COMPLETED: 94.10.27

FIELD NO: 70  
 LAB NO: 2187  
 DEPTH: 2.6-3.0  
 TYPE: AUGER

FIELD NO: 71  
 LAB NO: 2188  
 DEPTH: 3.6-4.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	95
12.5	86
10.0	85
5.0	76
2.5	69
2.0	--
1.25	64
0.840	--
0.630	59
0.420	--
0.315	53
0.160	48
0.150	--
0.080	42

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	89
20.0	87
12.5	84
10.0	81
5.0	74
2.5	67
2.0	--
1.25	62
0.840	--
0.630	60
0.420	--
0.315	52
0.160	46
0.150	--
0.080	40

M.C. (%): 19

M.C. (%): 19

LIMITS

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

LIMITS

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

% GRAVEL: 24  
 % SAND: 34  
 % FINES: 42

% GRAVEL: 26  
 % SAND: 34  
 % FINES: 40

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-77  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1835+100 O/S 12M LT  
 LOGGED BY: KJ DATE COMPLETED: 94.10.27

FIELD NO: 72  
 LAB NO: 2189  
 DEPTH: 2.0-2.4  
 TYPE: AUGER

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	91
2.5	86
2.0	--
1.25	81
0.840	--
0.630	76
0.420	--
0.315	69
0.160	63
0.150	--
0.080	57

M.C. (%): 39

LIMITS

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

% GRAVEL: 9  
 % SAND: 34  
 % FINES: 57

CLASSIFICATION:  
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-78  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1834+950 O/S 18M RT  
 LOGGED BY: KJ DATE COMPLETED: 94.10.27

FIELD NO: 93  
 LAB NO: 2190  
 DEPTH: 4.0-4.5  
 TYPE: AUGER

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	99
2.5	99
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	98
0.160	97
0.150	--
0.080	93

M.C. (%): 81

LIMITS

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

% GRAVEL: 1  
 % SAND: 6  
 % FINES: 93

CLASSIFICATION:  
 SILT (ML)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-79  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1834+875 O/S 20M RT  
 LOGGED BY: KJ DATE COMPLETED: 94.10.27

FIELD NO: 74  
 LAB NO: 2191  
 DEPTH: 4.0-4.5  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	89
10.0	84
5.0	69
2.5	57
2.0	--
1.25	47
0.840	--
0.630	37
0.420	--
0.315	25
0.160	21
0.150	--
0.080	20

M.C. (%): 26

LIMITS

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

% GRAVEL: 31  
 % SAND: 49  
 % FINES: 20

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-80  
CLIENT: ENGINEERING-CAPITAL  
PROJECT NAME: SHAKWAK PROJECT  
PROJECT LOCATION: SEGMENT 14  
DRILL UNIT: 36-003  
HOLE LOCATION: 1134+775 O/S 20M RT  
LOGGED BY: KJ DATE COMPLETED: 94.10.27

FIELD NO: 75  
LAB NO: 2192  
DEPTH: 3.8-4.2  
TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	97
10.0	93
5.0	80
2.5	68
2.0	--
1.25	58
0.840	--
0.630	49
0.420	--
0.315	40
0.160	32
0.150	--
0.080	25

M.C. (%): 21

LIMITS

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

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

CLASSIFICATION:  
SILTY SAND WITH  
GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-82  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1834+535 O/S 20M RT  
 LOGGED BY: KJ DATE COMPLETED: 94.10.27

FIELD NO: 76  
 LAB NO: 2193  
 DEPTH: 4.0-4.5  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	92
10.0	87
5.0	80
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

M.C. (%): 21

LIMITS

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

% GRAVEL: 20  
 % SAND: 29  
 % FINES: 51

CLASSIFICATION:  
 SANDY SILT WITH  
 GRAVEL (ML)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-83  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1834+375 O/S 20M RT  
 LOGGED BY: KJ DATE COMPLETED: 94.10.27

FIELD NO: 77  
 LAB NO: 2194  
 DEPTH: 2.6-3.0  
 TYPE: AUGER

FIELD NO: 78  
 LAB NO: 2195  
 DEPTH: 4.0-4.5  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	93
12.5	86
10.0	82
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

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	64
31.5	--
25.0	64
20.0	60
12.5	54
10.0	50
5.0	41
2.5	34
2.0	--
1.25	29
0.840	--
0.630	25
0.420	--
0.315	20
0.160	18
0.150	--
0.080	15

M.C. (%): 23

M.C. (%): 11

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

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

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

% GRAVEL: 59  
 % SAND: 25  
 % FINES: 15

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

CLASSIFICATION:  
 SILTY GRAVEL  
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-84  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1834+225 O/S 15M RT  
 LOGGED BY: KJ DATE COMPLETED: 94.10.27

FIELD NO: 79  
 LAB NO: 2196  
 DEPTH: 1.2-1.5  
 TYPE: AUGER

FIELD NO: 80  
 LAB NO: 2197  
 DEPTH: 2.6-3.0  
 TYPE: AUGER

FIELD NO: 81  
 LAB NO: 2198  
 DEPTH: 4.1-4.5  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	92
12.5	92
10.0	92
5.0	89
2.5	88
2.0	--
1.25	86
0.840	--
0.630	85
0.420	--
0.315	83
0.160	81
0.150	--
0.080	77

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	91
20.0	79
12.5	64
10.0	59
5.0	50
2.5	43
2.0	--
1.25	38
0.840	--
0.630	33
0.420	--
0.315	28
0.160	23
0.150	--
0.080	20

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	67
20.0	60
12.5	48
10.0	45
5.0	37
2.5	30
2.0	--
1.25	25
0.840	--
0.630	19
0.420	--
0.315	14
0.160	11
0.150	--
0.080	9

M.C. (%): 62

M.C. (%): 13

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: 11  
 % SAND: 12  
 % FINES: 77

% GRAVEL: 50  
 % SAND: 30  
 % FINES: 20

% GRAVEL: 63  
 % SAND: 28  
 % FINES: 9

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

CLASSIFICATION:  
 SILTY GRAVEL  
 WITH SAND (GM)

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

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-85  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1834+100  
 LOGGED BY: KJ DATE COMPLETED: 94.10.27

FIELD NO: 82  
 LAB NO: 2200  
 DEPTH: 1.0-1.4  
 TYPE: AUGER

FIELD NO: 83  
 LAB NO: 2201  
 DEPTH: 2.4-2.8  
 TYPE: AUGER

FIELD NO: 84  
 LAB NO: 2202  
 DEPTH: 4.1-4.5  
 TYPE: AUGER

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	84
2.5	79
2.0	--
1.25	74
0.840	--
0.630	69
0.420	--
0.315	62
0.160	40
0.150	--
0.080	48

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	86
10.0	80
5.0	71
2.5	64
2.0	--
1.25	58
0.840	--
0.630	53
0.420	--
0.315	46
0.160	41
0.150	--
0.080	35

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	89
12.5	82
10.0	77
5.0	67
2.5	59
2.0	--
1.25	53
0.840	--
0.630	48
0.420	--
0.315	42
0.160	35
0.150	--
0.080	29

M.C. (%): 30

M.C. (%): 16

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: 16  
 % SAND: 36  
 % FINES: 48

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

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

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-86  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1834+040  
 LOGGED BY: KJ DATE COMPLETED: 94.10.27

FIELD NO: 85  
 LAB NO: 2203  
 DEPTH: 0.6-1.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	95
12.5	91
10.0	89
5.0	83
2.5	78
2.0	--
1.25	74
0.840	--
0.630	70
0.420	--
0.315	65
0.160	59
0.150	--
0.080	54

M.C. (%): 33

LIMITS

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

% GRAVEL: 17  
 % SAND: 29  
 % FINES: 54

CLASSIFICATION:  
 SANDY SILT WITH  
 GRAVEL (ML)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-87  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1834+025 O/S 8M RT  
 LOGGED BY: KJ DATE COMPLETED: 94.10.27

FIELD NO: 86  
 LAB NO: 2204  
 DEPTH: 1.3-1.6  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	98
5.0	94
2.5	92
2.0	--
1.25	90
0.840	--
0.630	87
0.420	--
0.315	83
0.160	80
0.150	--
0.080	74

M.C. (%): 37

LIMITS

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

% GRAVEL: 6  
 % SAND: 20  
 % FINES: 74

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-89  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1833+900 O/S 2M LT  
 LOGGED BY: KJ DATE COMPLETED: 94.10.28

FIELD NO: 87  
 LAB NO: 2205  
 DEPTH: 2.8-3.0  
 TYPE: AUGER

FIELD NO: 88  
 LAB NO: 2206  
 DEPTH: 4.0-4.2  
 TYPE: AUGER  
 ORGANIC MATERIAL

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	83
12.5	72
10.0	64
5.0	49
2.5	38
2.0	--
1.25	30
0.840	--
0.630	24
0.420	--
0.315	20
0.160	17
0.150	--
0.080	15

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. (%): 34

M.C. (%): 123

LIMITS

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

LIMITS

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

% GRAVEL: 51  
 % SAND: 35  
 % FINES: 15

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

CLASSIFICATION:  
 SILTY GRAVEL  
 WITH SAND (GM)

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-90  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1833+800  
 LOGGED BY: KJ DATE COMPLETED: 94.10.28

FIELD NO: 89  
 LAB NO: 2207  
 DEPTH: 4.3-4.5  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	93
12.5	85
10.0	82
5.0	65
2.5	48
2.0	--
1.25	35
0.840	--
0.630	25
0.420	--
0.315	16
0.160	10
0.150	--
0.080	7

M.C. (%): 16

LIMITS

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

% GRAVEL: 35  
 % SAND: 57  
 % FINES: 7

CLASSIFICATION:  
 WELL-GRADED SAND  
 WITH SILT &  
 GRAVEL (SW-SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-91  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1833+740  
 LOGGED BY: KJ DATE COMPLETED: 94.10.28

FIELD NO: 90  
 LAB NO: 2208  
 DEPTH: 1.2-1.4  
 TYPE: AUGER  
 ORGANIC

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	95
2.0	--
1.25	89
0.840	--
0.630	76
0.420	--
0.315	52
0.160	31
0.150	--
0.080	21

M.C. (%): 45

LIMITS

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

% GRAVEL: 2  
 % SAND: 78  
 % FINES: 21

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-92  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1833+650  
 LOGGED BY: KJ DATE COMPLETED: 94.10.28

FIELD NO: 91  
 LAB NO: 2209  
 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	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	94
0.160	89
0.150	--
0.080	81

M.C. (%): 107

LIMITS

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

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

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-93  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1833+550  
 LOGGED BY: KJ DATE COMPLETED: 94.10.28

FIELD NO: 92  
 LAB NO: 2210  
 DEPTH: 4.2-4.5  
 TYPE: AUGER  
 ORGANIC MATERIAL

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. (%): 74

LIMITS

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

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

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-94  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1833+450  
 LOGGED BY: KJ DATE COMPLETED: 94.10.28

FIELD NO: 93  
 LAB NO: 2211  
 DEPTH: 2.8-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	85
10.0	81
5.0	70
2.5	62
2.0	--
1.25	57
0.840	--
0.630	51
0.420	--
0.315	35
0.160	20
0.150	--
0.080	14

M.C. (%): 21

LIMITS

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

% GRAVEL: 30  
 % SAND: 57  
 % FINES: 14

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-97  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1833+200  
 LOGGED BY: KJ DATE COMPLETED: 94.10.28

FIELD NO: 94  
 LAB NO: 2212  
 DEPTH: 2.8-3.0  
 TYPE: AUGER  
 ORGANIC

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	98
0.840	--
0.630	93
0.420	--
0.315	81
0.160	59
0.150	--
0.080	37

M.C. (%): 56

LIMITS

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

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

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-98  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1833+100  
 LOGGED BY: KJ DATE COMPLETED: 94.10.28

FIELD NO: 95  
 LAB NO: 2213  
 DEPTH: 1.3-1.5  
 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	99
2.5	93
2.0	--
1.25	84
0.840	--
0.630	71
0.420	--
0.315	52
0.160	37
0.150	--
0.080	27

M.C. (%): 50

LIMITS

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

% GRAVEL: 1  
 % SAND: 72  
 % FINES: 27

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-103  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1832+600  
 LOGGED BY: KJ DATE COMPLETED: 94.10.28

FIELD NO: 96  
 LAB NO: 2214  
 DEPTH: 2.2-2.6  
 TYPE: AUGER

FIELD NO: 97  
 LAB NO: 2215  
 DEPTH: 4.3-4.5  
 TYPE: AUGER

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

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	91
2.0	--
1.25	84
0.840	--
0.630	75
0.420	--
0.315	63
0.160	53
0.150	--
0.080	42

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	80
0.160	52
0.150	--
0.080	32

M.C. (%): 46

M.C. (%): 35

LIMITS

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

LIMITS

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

% GRAVEL: 2  
 % SAND: 56  
 % FINES: 42

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

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-106  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1832+300  
 LOGGED BY: KJ DATE COMPLETED: 94.10.28

FIELD NO: 98  
 LAB NO: 2216  
 DEPTH: 3.4-3.8  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	98
10.0	98
5.0	97
2.5	93
2.0	--
1.25	86
0.840	--
0.630	76
0.420	--
0.315	63
0.160	48
0.150	--
0.080	34

M.C. (%): 26

LIMITS

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

% GRAVEL: 3  
 % SAND: 63  
 % FINES: 34

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-107  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1832+200  
 LOGGED BY: KJ DATE COMPLETED: 94.10.28

FIELD NO: 99  
 LAB NO: 2217  
 DEPTH: 4.3-4.5  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	82
20.0	76
12.5	70
10.0	65
5.0	55
2.5	46
2.0	--
1.25	39
0.840	--
0.630	33
0.420	--
0.315	25
0.160	19
0.150	--
0.080	13

M.C. (%): 13

LIMITS

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

% GRAVEL: 45  
 % SAND: 41  
 % FINES: 13

CLASSIFICATION:  
 SILTY GRAVEL  
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-108  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1832+100  
 LOGGED BY: KJ DATE COMPLETED: 94.10.28

FIELD NO: 100  
 LAB NO: 2218  
 DEPTH: 4.3-4.5  
 TYPE: AUGER  
 ORGANIC MATERIAL

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 HOLE NUMBER: 339-109  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1831+975  
 LOGGED BY: KJ DATE COMPLETED: 94.10.28

FIELD NO: 101  
 LAB NO: 2219  
 DEPTH: 1.2-1.5  
 TYPE: AUGER

FIELD NO: 102  
 LAB NO: 2220  
 DEPTH: 2.6-3.0  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 103  
 LAB NO: 2221  
 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	100
5.0	98
2.5	94
2.0	--
1.25	90
0.840	--
0.630	84
0.420	--
0.315	62
0.160	31
0.150	--
0.080	21

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	96
2.5	87
2.0	--
1.25	78
0.840	--
0.630	69
0.420	--
0.315	57
0.160	39
0.150	--
0.080	26

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	93
2.0	--
1.25	88
0.840	--
0.630	78
0.420	--
0.315	60
0.160	42
0.150	--
0.080	28

M.C. (%): 49

M.C. (%): 50

M.C. (%): 36

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

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

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

% GRAVEL: 2  
 % SAND: 76  
 % FINES: 21

% GRAVEL: 4  
 % SAND: 70  
 % FINES: 26

% GRAVEL: 3  
 % SAND: 69  
 % FINES: 28

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-110  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1831+875  
 LOGGED BY: KJ DATE COMPLETED: 94.10.29

FIELD NO: 104  
 LAB NO: 2222  
 DEPTH: 2.6-3.0  
 TYPE: AUGER  
 ORGANIC MATERIAL

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. (%): 74

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

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

CLASSIFICATION:

FIELD NO: 105  
 LAB NO: 2223  
 DEPTH: 3.2-3.4  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	87
10.0	82
5.0	63
2.5	52
2.0	--
1.25	43
0.840	--
0.630	36
0.420	--
0.315	29
0.160	23
0.150	--
0.080	17

M.C. (%): 19

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

% GRAVEL: 37  
 % SAND: 46  
 % FINES: 17

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-111  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1831+775  
 LOGGED BY: KJ DATE COMPLETED: 94.10.29

FIELD NO: 106  
 LAB NO: 2224  
 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	100
10.0	99
5.0	95
2.5	84
2.0	--
1.25	70
0.840	--
0.630	57
0.420	--
0.315	44
0.160	33
0.150	--
0.080	23

M.C. (%): 27

LIMITS

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

% GRAVEL: 5  
 % SAND: 72  
 % FINES: 23

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-112  
CLIENT: ENGINEERING-CAPITAL  
PROJECT NAME: SHAKWAK PROJECT  
PROJECT LOCATION: SEGMENT 14  
DRILL UNIT: 36-003  
HOLE LOCATION: 1831+675  
LOGGED BY: KJ DATE COMPLETED: 94.10.29

FIELD NO: 107  
LAB NO: 2225  
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	100
5.0	99
2.5	95
2.0	--
1.25	89
0.840	--
0.630	78
0.420	--
0.315	60
0.160	46
0.150	--
0.080	35

M.C. (%): 57

LIMITS

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

% GRAVEL: 1  
% SAND: 63  
% FINES: 35

CLASSIFICATION:  
SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-113  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1831+575 O/S 10M RT  
 LOGGED BY: KJ DATE COMPLETED: 94.10.29

FIELD NO: 108  
 LAB NO: 2226  
 DEPTH: 2.8-3.0  
 TYPE: AUGER

FIELD NO: 109  
 LAB NO: 2227  
 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	100
2.5	91
2.0	--
1.25	72
0.840	--
0.630	53
0.420	--
0.315	34
0.160	22
0.150	--
0.080	15

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	93
12.5	83
10.0	73
5.0	59
2.5	50
2.0	--
1.25	43
0.840	--
0.630	38
0.420	--
0.315	33
0.160	28
0.150	--
0.080	23

M.C. (%): 66

M.C. (%): 25

LIMITS

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

LIMITS

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

% GRAVEL: 0  
 % SAND: 85  
 % FINES: 15

% GRAVEL: 41  
 % SAND: 36  
 % FINES: 23

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY GRAVEL  
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-114  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1831+440 O/S 12M RT  
 LOGGED BY: KJ DATE COMPLETED: 94.10.29

FIELD NO: 110  
 LAB NO: 2228  
 DEPTH: 2.8-3.0  
 TYPE: AUGER

FIELD NO: 111  
 LAB NO: 2229  
 DEPTH: 3.3-3.5  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	89
10.0	87
5.0	75
2.5	66
2.0	--
1.25	58
0.840	--
0.630	51
0.420	--
0.315	43
0.160	37
0.150	--
0.080	32

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	94
12.5	91
10.0	87
5.0	77
2.5	71
2.0	--
1.25	66
0.840	--
0.630	61
0.420	--
0.315	56
0.160	50
0.150	--
0.080	45

M.C. (%): 26

M.C. (%): 28

LIMITS

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

LIMITS

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

% GRAVEL: 25  
 % SAND: 43  
 % FINES: 32

% GRAVEL: 23  
 % SAND: 32  
 % FINES: 45

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314 HOLE NUMBER: 339-115  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1831+375 O/S 20M RT  
 LOGGED BY: KJ DATE COMPLETED: 94.10.29

FIELD NO: 112  
 LAB NO: 2230  
 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	89
10.0	84
5.0	72
2.5	61
2.0	--
1.25	53
0.840	--
0.630	46
0.420	--
0.315	40
0.160	33
0.150	--
0.080	25

M.C. (%): 16

LIMITS

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

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

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 357-106  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1831+955 O/S 16M LT  
 LOGGED BY: CC DATE COMPLETED: 95.05.27

FIELD NO: 259  
 LAB NO: 400  
 DEPTH: 0.8-1.0  
 TYPE: AUGER  
 ORGANIC

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	95
0.840	--
0.630	87
0.420	--
0.315	57
0.160	50
0.150	--
0.080	38

M.C. (%): 42

LIMITS

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

% GRAVEL: 0  
 % SAND: 62  
 % FINES: 38

CLASSIFICATION:  
SILTY SAND (SM)

FIELD NO: 260  
 LAB NO: 401  
 DEPTH: 1.8-2.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	68
20.0	61
12.5	54
10.0	50
5.0	40
2.5	33
2.0	--
1.25	27
0.840	--
0.630	21
0.420	--
0.315	15
0.160	10
0.150	--
0.080	7

M.C. (%): 8

LIMITS

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

% GRAVEL: 60  
 % SAND: 34  
 % FINES: 7

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

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 357-107  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1831+956 O/S 7M RT  
 LOGGED BY: CC DATE COMPLETED: 95.05.27

FIELD NO: 261  
 LAB NO: 402  
 DEPTH: 1.4-1.6  
 TYPE: AUGER

FIELD NO: 262  
 LAB NO: 403  
 DEPTH: 2.6-2.8  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 263  
 LAB NO: 404  
 DEPTH: 3.0-3.2  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 264  
 LAB NO: 405  
 DEPTH: 3.2-3.4  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	78
12.5	72
10.0	69
5.0	64
2.5	58
2.0	--
1.25	51
0.840	--
0.630	39
0.420	--
0.315	23
0.160	11
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	95
10.0	94
5.0	90
2.5	87
2.0	--
1.25	83
0.840	--
0.630	75
0.420	--
0.315	60
0.160	44
0.150	--
0.080	35

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	90
12.5	83
10.0	81
5.0	75
2.5	71
2.0	--
1.25	66
0.840	--
0.630	60
0.420	--
0.315	50
0.160	38
0.150	--
0.080	30

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	87
12.5	78
10.0	73
5.0	62
2.5	55
2.0	--
1.25	49
0.840	--
0.630	44
0.420	--
0.315	34
0.160	25
0.150	--
0.080	19

M.C. (%): 15

M.C. (%): 46

M.C. (%): 28

M.C. (%): 17

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: 36  
 % SAND: 57  
 % FINES: 7

% GRAVEL: 10  
 % SAND: 55  
 % FINES: 35

% GRAVEL: 25  
 % SAND: 45  
 % FINES: 30

% GRAVEL: 38  
 % SAND: 43  
 % FINES: 19

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

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 357-108  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1831+956 O/S 15M RT  
 LOGGED BY: CC DATE COMPLETED: 95.05.27

FIELD NO: 265  
 LAB NO: 406  
 DEPTH: 1.0-1.2  
 TYPE: AUGER

FIELD NO: 266  
 LAB NO: 407  
 DEPTH: 1.8-2.0  
 TYPE: AUGER  
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	77
20.0	70
12.5	62
10.0	58
5.0	50
2.5	43
2.0	--
1.25	37
0.840	--
0.630	29
0.420	--
0.315	20
0.160	11
0.150	--
0.080	7

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	96
2.5	93
2.0	--
1.25	88
0.840	--
0.630	81
0.420	--
0.315	64
0.160	43
0.150	--
0.080	32

M.C. (%): 11

M.C. (%): 58

LIMITS

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

LIMITS

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

% GRAVEL: 50  
 % SAND: 43  
 % FINES: 7

% GRAVEL: 4  
 % SAND: 64  
 % FINES: 32

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

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 363-166  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1833+273 O/S 15.1M RT  
 LOGGED BY: CC DATE COMPLETED: 95.06.08

FIELD NO: 404  
 LAB NO: 592  
 DEPTH: 1.8-2.0  
 TYPE: AUGER

FIELD NO: 405  
 LAB NO: 593  
 DEPTH: 2.8-3.0  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 406  
 LAB NO: 594  
 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	98
2.0	--
1.25	95
0.840	--
0.630	92
0.420	--
0.315	87
0.160	82
0.150	--
0.080	78

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	93
0.150	--
0.080	86

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	99
5.0	94
2.5	88
2.0	--
1.25	80
0.840	--
0.630	70
0.420	--
0.315	60
0.160	52
0.150	--
0.080	47

M.C. (%): 315

M.C. (%): 135

M.C. (%): 100

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

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

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

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

% GRAVEL: 0  
 % SAND: 14  
 % FINES: 86

% GRAVEL: 6  
 % SAND: 47  
 % FINES: 47

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

CLASSIFICATION:  
 SILT (ML)

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 363-167  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1833+275  
 LOGGED BY: CC DATE COMPLETED: 95.06.08

FIELD NO: 407  
 LAB NO: 595  
 DEPTH: 1.2-1.4  
 TYPE: AUGER

FIELD NO: 408  
 LAB NO: 596  
 DEPTH: 2.8-3.0  
 TYPE: AUGER

FIELD NO: 409  
 LAB NO: 597  
 DEPTH: 4.4-4.6  
 TYPE: AUGER

FIELD NO: 410  
 LAB NO: 598  
 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	97
2.0	--
1.25	94
0.840	--
0.630	91
0.420	--
0.315	87
0.160	84
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	100
2.0	--
1.25	87
0.840	--
0.630	83
0.420	--
0.315	78
0.160	71
0.150	--
0.080	63

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	95
0.840	--
0.630	86
0.420	--
0.315	74
0.160	63
0.150	--
0.080	54

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	92
0.420	--
0.315	74
0.160	47
0.150	--
0.080	32

M.C. (%): 80

M.C. (%): 176

M.C. (%): 66

M.C. (%): 39

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: 20  
 % FINES: 80

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

% GRAVEL: 0  
 % SAND: 46  
 % FINES: 54

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

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 363-167  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1833+275  
 LOGGED BY: CC DATE COMPLETED: 95.06.08

FIELD NO: 411  
 LAB NO: 599  
 DEPTH: 7.2-7.4  
 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	100
2.5	99
2.0	--
1.25	99
0.840	--
0.630	96
0.420	--
0.315	90
0.160	79
0.150	--
0.080	67

M.C. (%): 95

LIMITS

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

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

CLASSIFICATION:  
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 363-168  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1833+275 O/S 16.1M LT  
 LOGGED BY: CC DATE COMPLETED: 95.06.08

FIELD NO: 412  
 LAB NO: 600  
 DEPTH: 0.8-1.0  
 TYPE: AUGER

FIELD NO: 413  
 LAB NO: 601  
 DEPTH: 2.8-3.0  
 TYPE: AUGER

FIELD NO: 414  
 LAB NO: 602  
 DEPTH: 4.2-4.4  
 TYPE: AUGER

FIELD NO: 415  
 LAB NO: 603  
 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	93
2.5	76
2.0	--
1.25	58
0.840	--
0.630	45
0.420	--
0.315	32
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	93
12.5	90
10.0	87
5.0	76
2.5	68
2.0	--
1.25	61
0.840	--
0.630	54
0.420	--
0.315	46
0.160	38
0.150	--
0.080	31

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	98
2.5	96
2.0	--
1.25	92
0.840	--
0.630	85
0.420	--
0.315	70
0.160	58
0.150	--
0.080	49

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	95
0.420	--
0.315	93
0.160	89
0.150	--
0.080	79

M.C. (%): 22

M.C. (%): 31

M.C. (%): 55

M.C. (%): 78

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

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

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

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

% GRAVEL: 7  
 % SAND: 78  
 % FINES: 14

% GRAVEL: 24  
 % SAND: 45  
 % FINES: 31

% GRAVEL: 2  
 % SAND: 49  
 % FINES: 49

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

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 364-169  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1833+547 O/S 12.5M RT  
 LOGGED BY: CC DATE COMPLETED: 95.06.08

FIELD NO: 416  
 LAB NO: 604  
 DEPTH: 1.2-1.4  
 TYPE: AUGER

FIELD NO: 417  
 LAB NO: 605  
 DEPTH: 2.8-3.0  
 TYPE: AUGER

FIELD NO: 418  
 LAB NO: 606  
 DEPTH: 4.4-4.6  
 TYPE: AUGER

FIELD NO: 419  
 LAB NO: 607  
 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	98
2.0	--
1.25	97
0.840	--
0.630	88
0.420	--
0.315	68
0.160	54
0.150	--
0.080	45

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	89
2.0	--
1.25	78
0.840	--
0.630	71
0.420	--
0.315	62
0.160	52
0.150	--
0.080	46

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	99
5.0	98
2.5	96
2.0	--
1.25	94
0.840	--
0.630	91
0.420	--
0.315	82
0.160	65
0.150	--
0.080	51

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	95
2.0	--
1.25	93
0.840	--
0.630	88
0.420	--
0.315	84
0.160	77
0.150	--
0.080	67

M.C. (%): 97

M.C. (%): 117

M.C. (%): 30

M.C. (%): 44

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: 55  
 % FINES: 45

% GRAVEL: 0  
 % SAND: 54  
 % FINES: 46

% GRAVEL: 2  
 % SAND: 47  
 % FINES: 51

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

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 364-170  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1833+550  
 LOGGED BY: CC DATE COMPLETED: 95.06.08

FIELD NO: 420  
 LAB NO: 608  
 DEPTH: 2.8-3.0  
 TYPE: AUGER

FIELD NO: 421  
 LAB NO: 609  
 DEPTH: 5.8-6.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	65
31.5	--
25.0	58
20.0	51
12.5	45
10.0	42
5.0	40
2.5	38
2.0	--
1.25	36
0.840	--
0.630	30
0.420	--
0.315	22
0.160	17
0.150	--
0.080	13

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	61
31.5	--
25.0	48
20.0	48
12.5	44
10.0	43
5.0	40
2.5	36
2.0	--
1.25	33
0.840	--
0.630	28
0.420	--
0.315	23
0.160	19
0.150	--
0.080	15

M.C. (%): 25

M.C. (%): 18

LIMITS

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

LIMITS

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

% GRAVEL: 60  
 % SAND: 26  
 % FINES: 13

% GRAVEL: 60  
 % SAND: 25  
 % FINES: 15

CLASSIFICATION:  
 SILTY GRAVEL  
 WITH SAND (GM)

CLASSIFICATION:  
 SILTY GRAVEL  
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 364-171  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1833+559 O/S 14M LT  
 LOGGED BY: CC DATE COMPLETED: 95.06.08

FIELD NO: 422  
 LAB NO: 610  
 DEPTH: 1.4-1.6  
 TYPE: AUGER

FIELD NO: 423  
 LAB NO: 611  
 DEPTH: 2.8-3.0  
 TYPE: AUGER

FIELD NO: 424  
 LAB NO: 612  
 DEPTH: 5.8-6.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	74
12.5	62
10.0	51
5.0	38
2.5	29
2.0	--
1.25	23
0.840	--
0.630	18
0.420	--
0.315	13
0.160	9
0.150	--
0.080	7

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	60
20.0	56
12.5	48
10.0	42
5.0	36
2.5	31
2.0	--
1.25	26
0.840	--
0.630	21
0.420	--
0.315	15
0.160	11
0.150	--
0.080	7

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	67
20.0	53
12.5	47
10.0	45
5.0	43
2.5	41
2.0	--
1.25	38
0.840	--
0.630	35
0.420	--
0.315	32
0.160	28
0.150	--
0.080	24

M.C. (%): 7

M.C. (%): 10

M.C. (%): 27

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

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

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

% GRAVEL: 62  
 % SAND: 31  
 % FINES: 7

% GRAVEL: 64  
 % SAND: 29  
 % FINES: 7

% GRAVEL: 57  
 % SAND: 19  
 % FINES: 24

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

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

CLASSIFICATION:  
 SILTY GRAVEL  
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 364-172  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1835+310 O/S 14M LT  
 LOGGED BY: CC DATE COMPLETED: 95.06.09

FIELD NO: 425  
 LAB NO: 613  
 DEPTH: 1.4-1.6  
 TYPE: AUGER

FIELD NO: 426  
 LAB NO: 614  
 DEPTH: 2.8-3.0  
 TYPE: AUGER

FIELD NO: 427  
 LAB NO: 615  
 DEPTH: 4.2-4.4  
 TYPE: AUGER

FIELD NO: 428  
 LAB NO: 616  
 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	95
0.420	--
0.315	88
0.160	75
0.150	--
0.080	55

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	79
2.0	--
1.25	73
0.840	--
0.630	65
0.420	--
0.315	51
0.160	35
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	100
2.5	100
2.0	--
1.25	98
0.840	--
0.630	97
0.420	--
0.315	95
0.160	93
0.150	--
0.080	90

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	91
12.5	79
10.0	74
5.0	62
2.5	53
2.0	--
1.25	47
0.840	--
0.630	41
0.420	--
0.315	36
0.160	30
0.150	--
0.080	25

M.C. (%): 38

M.C. (%): 16

M.C. (%): 99

M.C. (%): 11

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: 45  
 % FINES: 55

% GRAVEL: 14  
 % SAND: 63  
 % FINES: 23

% GRAVEL: 0  
 % SAND: 10  
 % FINES: 90

% GRAVEL: 38  
 % SAND: 37  
 % FINES: 25

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILT (ML)

CLASSIFICATION:  
 SILTY GRAVEL  
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 364-173  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1835+320  
 LOGGED BY: CC DATE COMPLETED: 95.06.09

FIELD NO: 429  
 LAB NO: 617  
 DEPTH: 1.4-1.6  
 TYPE: AUGER

FIELD NO: 430  
 LAB NO: 618  
 DEPTH: 2.8-3.0  
 TYPE: AUGER

FIELD NO: 431  
 LAB NO: 619  
 DEPTH: 4.4-4.6  
 TYPE: AUGER

FIELD NO: 432  
 LAB NO: 620  
 DEPTH: 5.8-6.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	88
10.0	82
5.0	65
2.5	53
2.0	--
1.25	43
0.840	--
0.630	34
0.420	--
0.315	22
0.160	12
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	100
2.5	90
2.0	--
1.25	87
0.840	--
0.630	82
0.420	--
0.315	76
0.160	70
0.150	--
0.080	64

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	89
12.5	82
10.0	77
5.0	69
2.5	62
2.0	--
1.25	57
0.840	--
0.630	52
0.420	--
0.315	47
0.160	41
0.150	--
0.080	35

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	93
10.0	90
5.0	80
2.5	72
2.0	--
1.25	65
0.840	--
0.630	59
0.420	--
0.315	51
0.160	44
0.150	--
0.080	37

M.C. (%): 12

M.C. (%): 92

M.C. (%): 16

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: 35  
 % SAND: 58  
 % FINES: 7

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

% GRAVEL: 31  
 % SAND: 33  
 % FINES: 35

% GRAVEL: 20  
 % SAND: 43  
 % FINES: 37

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

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 364-174  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1835+330 O/S 12M RT  
 LOGGED BY: CC DATE COMPLETED: 95.06.09

FIELD NO: 433  
 LAB NO: 621  
 DEPTH: 1.4-1.6  
 TYPE: AUGER

FIELD NO: 434  
 LAB NO: 622  
 DEPTH: 2.8-3.0  
 TYPE: AUGER

FIELD NO: 435  
 LAB NO: 623  
 DEPTH: 4.4-4.6  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	80
20.0	74
12.5	63
10.0	58
5.0	48
2.5	41
2.0	--
1.25	35
0.840	--
0.630	29
0.420	--
0.315	23
0.160	15
0.150	--
0.080	10

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	97
2.5	95
2.0	--
1.25	93
0.840	--
0.630	89
0.420	--
0.315	75
0.160	52
0.150	--
0.080	34

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	99
12.5	91
10.0	87
5.0	74
2.5	65
2.0	--
1.25	57
0.840	--
0.630	51
0.420	--
0.315	45
0.160	38
0.150	--
0.080	33

M.C. (%): 15

M.C. (%): 33

M.C. (%): 19

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

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

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

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

% GRAVEL: 3  
 % SAND: 63  
 % FINES: 34

% GRAVEL: 26  
 % SAND: 42  
 % FINES: 33

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

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 364-175  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1835+150 O/S 14M RT  
 LOGGED BY: CC DATE COMPLETED: 95.06.09

FIELD NO: 436  
 LAB NO: 624  
 DEPTH: 1.4-1.6  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	96
10.0	93
5.0	85
2.5	80
2.0	--
1.25	76
0.840	--
0.630	71
0.420	--
0.315	66
0.160	60
0.150	--
0.080	53

M.C. (%): 16

LIMITS

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

% GRAVEL: 15  
 % SAND: 32  
 % FINES: 53

CLASSIFICATION:  
 SANDY SILT WITH  
 GRAVEL (ML)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 364-176  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-003  
 HOLE LOCATION: 1835+100 O/S 5M RT  
 LOGGED BY: CC DATE COMPLETED: 95.06.09

FIELD NO: 437  
 LAB NO: 625  
 DEPTH: 1.2-1.4  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	96
10.0	92
5.0	84
2.5	77
2.0	--
1.25	71
0.840	--
0.630	66
0.420	--
0.315	60
0.160	53
0.150	--
0.080	46

M.C. (%): 13

LIMITS

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

% GRAVEL: 16  
 % SAND: 38  
 % FINES: 46

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0314-194 HOLE NUMBER: 591-03  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 14  
 DRILL UNIT: 36-002  
 HOLE LOCATION: 1843+370  
 LOGGED BY: LW DATE COMPLETED: 83.06.01

FIELD NO: 20  
 LAB NO: 1395  
 DEPTH: 0.8-1.0  
 TYPE: AUGER

FIELD NO: 21  
 LAB NO: 1396  
 DEPTH: 1.8-2.0  
 TYPE: AUGER

FIELD NO: 22  
 LAB NO: 1397  
 DEPTH: 3.8-4.0  
 TYPE: AUGER

FIELD NO: 23  
 LAB NO: 1398  
 DEPTH: 4.8-5.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	91
20.0	91
12.5	77
10.0	69
5.0	54
2.5	--
2.0	44
1.25	--
0.840	34
0.630	--
0.420	26
0.315	--
0.160	--
0.150	11
0.080	8

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	90
12.5	76
10.0	67
5.0	52
2.5	--
2.0	39
1.25	--
0.840	29
0.630	--
0.420	21
0.315	--
0.160	--
0.150	9
0.080	6

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	90
20.0	86
12.5	78
10.0	71
5.0	55
2.5	--
2.0	41
1.25	--
0.840	62
0.630	--
0.420	25
0.315	--
0.160	--
0.150	14
0.080	10

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	79
12.5	63
10.0	56
5.0	43
2.5	--
2.0	33
1.25	--
0.840	25
0.630	--
0.420	19
0.315	--
0.160	--
0.150	11
0.080	8

M.C. (%): 4

M.C. (%): 4

M.C. (%): 8

M.C. (%): 7

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

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

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

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

% GRAVEL: 46  
 % SAND: 47  
 % FINES: 8

% GRAVEL: 48  
 % SAND: 46  
 % FINES: 6

% GRAVEL: 45  
 % SAND: 45  
 % FINES: 10

% GRAVEL: 57  
 % SAND: 36  
 % FINES: 8

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

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

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

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