KGS GROUP

SUMMARY LOG

REFERENCE NO.

HOLE NO. **TH11-06A**

SHEET 1 of 1

CLIENT YUKON ENERGY CORPORATION

PROJECT STUDY OF ICE PROCESSES IN THE MAYO RIVER, YUKON

SITE VEC diesel generating station yard

LOCATION SE side of diesel yard ~10 m from fence.

DRILLING METHOD SSA/HSA

JOB NO.	10-1404-08
GROUND ELEV.	490.310 m
TOP OF PVC ELEV.	491.42 m
WATER ELEV.	488.84 m
DATE DRILLED	4/17/2011
UTM (m)	N 7,052,558
	E 455,863

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	PIEZ. LOG	DEPTH (m)	SAMPLE TYPE NUMBER	RECOVERY %	SPT (N) blows/0.15 m ▲ / DYNAMIC CONE (N) blows/ft △	Cu POCKET PEN (kPa) ★ / Cu TORVANE (kPa) ◆ / PL MC LL / %
490.0										
490				**ORGANIC PEAT** - Brown, organic, frozen, fibrous, some clay, some silt.		0.3				
489.4	1	5		**GRAVELLY SAND (SW)** - Brown, frozen, wet when thawed, well-graded, fine to coarse-grained sand, some to with gravel containing rounded clasts.			S1			
489.2				**SILT TILL (ML)** - Brown, frozen, wet when thawed, low plasticity, some sand, some gravel containing rounded clasts.		1.6				
488	2			**GRAVELLY SAND (SW) TO SAND AND GRAVEL (SW-GW)** - Brown-grey, wet, frost encountered throughout layer, well-graded, fine- to coarse-grained sand, gravel is rounded to subangular, trace to some silt. Grain Size: Gravel (46%), Sand (42.1%), Silt & Clay (11.9%) at 1.8 m.		2.2	S2			
	3	10		- Auger recoveries approximately 50% from 3.05 m to 4.57 m.		2.7				
487				Grain Size: Gravel (39%), Sand (44.1%), Silt & Clay (16.9%) at 3.7 m.			S3			
486	4	15				4.2				
485.1	5			**SILTY CLAY (CI)** - Grey, permafrost, abundant ice lensing, laminated, intermediate plasticity.						
485						5.7	S4			
484.2	6	20		**END OF HOLE AT 6.1 m.**						
484										
483	7	25								
482	8									
	9	30								
481										
480	10									
	11	35								
479										
	12	40								
478										
	13	45								
477										

Notes:
1. 50 mm diameter well with 1.1 m stickup installed to 5.7 m.
2. Thermocouples installed at 5.7 m, 4.2 m, 3.9 m, 2.97 m, 2.06 m, and 1.3 m.
3. Hole dry after drilling; however, water at 4.9 m during well installation.
4. Riser filled with sand to offset buoyancy for installation.
5. Water level shown on log measured on 21-April-2011.

SAMPLE TYPE Auger Grab

CONTRACTOR Donjek Drilling

INSPECTOR [redacted]

APPROVED [redacted]

DATE 12/8/11

GEOTECHNICAL-SOIL LOG P:\PROJECTS\2010\10-1404-08\DESIGN\GEOLOGS\MAYO DYKE LOGS.GPJ