KGS GROUP

SUMMARY LOG

REFERENCE NO.

HOLE NO. **TH11-04A**

SHEET 1 of 1

CLIENT YUKON ENERGY CORPORATION
PROJECT STUDY OF ICE PROCESSES IN THE MAYO RIVER, YUKON
SITE Village of Mayo Dike
LOCATION East side of dike road
DRILLING METHOD SSA/HSA

JOB NO. **10-1404-08**
GROUND ELEV. **491.240 m**
TOP OF PVC ELEV.
WATER ELEV.
DATE DRILLED **4/16/2011**
UTM (m) N **7,052,505**
E **455,592**

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	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 %
491								20 40 60	20 40 60 80
	1	5		**GRAVELLY SAND (SW) TO SAND AND GRAVEL (SW-GW)** - Brown, frozen, dry to damp when thawed, with gravel, rounded to subrounded clasts up to 50 mm, trace to some medium- to coarse-grained sand, trace silt. Grain Size: Gravel (53%), Sand (33.9%), Silt & Clay (13.1 %) at 0.6 m.		S1			
490	2			- Damp to moist, decrease in gravel content, increase in medium- to coarse-grained sand below 1.2 m. - Drilled through tree root, wood chips recovered in auger from 1.5 m to 3.05 m.					
489						S2			
	3	10		- Sand is mostly medium to coarse grained and clean (minimal fines) below 3.05 m; drilling was boney from 3.05 m to 3.66 m (possible former riverbed).					
488				- Increase in sand content and reduction in gravel content to some, reduction in gravel size below 3.66 m. Grain Size: Gravel (26%), Sand (64.8%), Silt & Clay (9.2%) at 4.0 m.					
487	4	15				S3			
	5								
486						S4			
	6	20		- Auger recoveries approximately 20% below 6.1 m.					
485									
484.5	7			**SANDY SILT (SP)** - Grey, wet to saturated, poorly graded, fine-grained, with to some gravel, trace clay.					
484		25		Grain Size: Gravel (24.1%), Sand (22.9%), Silt (49%), and Clay (3.6 %) at 7.6 m.		S5			
	8								
483									
	9	30							
482				Grain Size: Gravel (36%), Sand (15.2%), Silt (48.8%) at 9.8 m.		S6			
	10								
481									
480.6		35		**END OF HOLE AT 10.7 m.**					
	11			Notes: 1. Water at 3.05 m after drilling. 2. Hole backfilled with auger cuttings.					
480									
	12	40							
479									
	13								
478		45							

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\GEO\LOGS\MAYO DYKE LOGS.GPJ