

# Summary of Lab. Tests

Project : NovoLAB Example Project #1

Novo Tech Software Ltd.

Client : ABC Construction Ltd

Job No.: 2011-1

Location : Burnaby



## Sieve Analysis Test

Borehole	Sample Depth (m)	Soil Class	D10	D30	D60	Clay (%)	Silt (%)	Sand (%)	Gravel (%)	Cobble (%)	LL	PL
BH-1	1	GM (A-7-5)	0.001	0.023	10.284	19.3	22.7	19.8	38.2		67.9	38.9
BH-1	2	SM (A-4)	0.001	0.004	0.832	28.2	17.9	27.8	26.1		36	31
BH-1	3	SC (A-2-6)		0.351	1.813		18.4	62.5	19.1		35	18
BH-1	4	SC (A-2-6)	0.001	0.216	2.996	12.4	16.5	41.1	26.3	3.7	33.7	17.3
BH-1	5	SC (A-2-6)	0.006	0.305	2.957	7	16.2	43.4	29.4	4	32.4	19.1
BH-1	6	SC (A-2-4)	0.011	0.399	3.757	4.5	18.3	43.4	29.7	4.1	24.1	14.1
BH-1	7	SC-SM (A-2-4)	0.009	0.41	4.068	7.6	16.8	42.5	29.2	3.9	24.2	17.9
BH-1	8	SP-SC (A-2-6)	0.232	0.647	2.571		9.7	61.5	25	3.8	33.6	17.3
BH-1	9	SW (A-2-6)	0.344	1.286	4.374		2.6	59.8	33.5	4.1	32.4	19.1
BH-1	10	SC (A-4)	0.001	0.004	0.275	26.1	22	32.8	14.3	4.8	29.9	20.2
BH-1	12	ML (A-7-6)	0.001	0.003	0.286	27.3	24.3	32.2	10.8	5.4	45.3	29
BH-2	1.5	SP (A-2-7)	0.183	0.58	2.395	1.3	0.8	71.2	23.9	2.8	41	20
BH-2	2.4	ML (A-7-6)	0.001	0.005	0.027	21.7	39.8	29.8	1.4	7.3	40.6	28
BH-2	3.6	SM (A-7-5)	0.001	0.023	10.284	17.6	19.9	19.8	30.6	12.1	67.9	38.9
BH-2	4.5	SC-SM (A-2-4)	0.009	0.41	4.068	7.6	16.8	42.5	29.2	3.9	24.2	17.9

## ATTERBERG LIMITS TEST

Borehole	Sample Depth (m)	Soil Class	Liquid Limit (LL)	Plastic Limit (PL)
BH-1	1	GM (A-7-5)	47	39
BH-1	2	SM (A-4)	36	31

## Density & Moisture Test

Borehole	Sample Depth (m)	Soil Class	Moisture Content (%)	Dry Density (gr/cm3)
BH-2	1.5	SP (A-2-7)	15.2	1.96
BH-2	3.6	SM (A-7-5)	23.1	1.7

## Field Density Test

Borehole	Sample Depth (m)	Soil Class	Moisture Content (%)	Dry Density (gr/cm3)
BH-1	1	GM (A-7-5)	7.6	2.09

## Direct Shear Test

Borehole	Sample Depth (m)	Soil Class	Type	Box Width (cm)	C (kg/cm2)	Phi (deg)
BH-1	1	GM (A-7-5)	Slow	10	0.1	15.9
BH-1	6	SC (A-2-4)	Slow	10	0.01	19

## TRIAxIAL COMPRESSION TEST

Borehole	Sample Depth (m)	Soil Class	Type	C (kg/cm2)	Phi (deg)	C' (kg/cm2)	Phi' (deg)
BH-1	1	GM (A-7-5)	CD	0	22.6		

# Summary of Lab. Tests

Project : NovoLAB Example Project #1

Novo Tech Software Ltd.

Client : ABC Construction Ltd

Job No.: 2011-1

Location : Burnaby



Borehole	Sample Depth (m)	Soil Class	Type	C (kg/cm2)	Phi (deg)	C' (kg/cm2)	Phi' (deg)
BH-1	6	SC (A-2-4)	CU	0.11	18.6	0	29.4

## 1D Consolidation Test

Borehole	Sample Depth (m)	Soil Class	Diameter (cm)	Height (cm)	Cc	Cs	Pc	e.
BH-1	7	SC-SM (A-2-4)	6.15	2	0.18	0.01	4.31	0.43

## COMPACTION TEST

Borehole	Sample Depth (m)	Soil Class	Mould Volume (cm3)	Max. Dry Density (gr/cm3)	Wo (%)	Type
BH-1	1	GM (A-7-5)	944	1.76	14.7	

## Chemical Test Results

Borehole	Sample Depth (m)	Soil Class	#	Value
BH-1	1	GM (A-7-5)	9	0.07
BH-1	1	GM (A-7-5)	6	0.2
BH-1	1	GM (A-7-5)	2	6.3
BH-1	3	SC (A-2-6)	9	0.005
BH-1	3	SC (A-2-6)	6	0.16
BH-1	3	SC (A-2-6)	2	6.7