


INCO - LAB
FOR TESTING MATERIALS,
SOIL, SURVEYING &
ENVIRONMENTAL RESEARCH















مختبر إنكو
لتحوصات المواد والتربة
والمساحة وأبحاث البيئة

BOREHOLE LOG

P.O Box: 21073, Safat 13071, Kuwait, Tel (965)4710780, Fax (965)4716526


Project: Soil Investigation for Cross Country Pipeline (CCP)		BH No.: BH-07	
Owner: Kuwait National Petroleum Co. (KNPC) - Local Marketing		Page: 1/2	
Contractor: Vision International Gen. Trading & Cont. Co.		Ground Level: 113.19	
Consultant: AMEC - Foster Wheeler		Coordinates:	
Location: KNPC MAA, SHU to Al Mutla Depot, State of Kuwait		N 3,258,492.712 , E 758,862.749	
Drill Rig No.: D-50MB Boring Method: Augering Boring Diameter: 125mm		Location: near Rd.80	
Date Started: 21/11/2015		Date Completed: 21/11/2015 Operator: Syed Job Order No.: 15-928	


Scale (m)	Samples			SPT Records				SYMBOLS		Description	Elevation (m)	Ground Water Level (m)		
	Type	Number	Symbol	Depth (m)	Field Records			N Blows	Legend				USCS	
					0-15 cm	15-30 cm	30-45 cm							
0														
	SPT	1		0.5 - 0.95	3	5	7	12		SM	Note: No groundwater was encountered down to end of boring Medium dense, pale brown, fine to coarse silty SAND , strong reaction with dilute hydrochloric acid, moist. Becomes very dense.	113		
1	SPT	2		1 - 1.45	5	5	8	13				112		
	SPT	3		1.5 - 1.95	10	11	15	26						
2	SPT	4		2 - 2.4	12	18	32/10	50/25					111	
	SPT	5		2.5 - 2.81	20	38	12/1	50/16						
3	SPT	6		3 - 3.21	25	50/6	-	50/6		SC	Very dense, pale brown, fine to coarse clayey SAND , strong reaction with dilute hydrochloric acid, moist.	110.2		
													110	
4	SPT	7		4 - 4.2	25	50/6	-	50/6					109	
5	SPT	8		5 - 5.25	25	50/10	-	50/10					108	
6	SPT	9		6 - 6.31	23	39	11/1	50/16					107	
7	SPT	10		7 - 7.2	25	50/5	-	50/5					106	
8	SPT	11		8 - 8.32	25	36	14/2	50/17		105				
9	SPT	12		9 - 9.31	25	40	10/1	50/16		104				
10														


Note:
The measured G.W.L. is approximate and has been recorded after at least 24 hours from completion of drilling.


Dilute HCL Testing Per ASTM D2488, Clauses 10.6 & 14.2.5 for checking the presence of CaCO3 which may indicate false soil strength


SAMPLE KEY

 SPT : Standard Penetration Test

 D & M : Dames & Moore Sampler

 B : Bulk Sample

 CORE : Core Sample

 Ground Water Table

G.W.L.: Ground Water Level

E.G.L.: Existing Ground Level

E.E.L.: Existing Excavation Level

Logged By : M.E.T

Checked By : R.Q.V.

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Location: **KNPC MAA, SHU to Al Mutla Depot, State of Kuwait**

N 3,258,492.712 , E 758,862.749

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Scale (m)	Samples			SPT Records			SYMBOLS		Description	Elevation (m)	Ground Water Level (m)		
	Type	Number	Symbol	Depth (m)	Field Records			N Blows				Legend	USCS
					0-15 cm	15-30 cm	30-45 cm						
10	SPT	13		10 - 10.21	25	50/6	-	50/6		SC	Very dense, pale brown, fine to coarse clayey SAND , strong reaction with dilute hydrochloric acid, moist. Bottom of borehole.	103.103.0	

Note:

Note:
The measured G.W.L. is approximate and has been recorded after at least 24 hours from completion of drilling.

Dilute HCL Testing Per ASTM D2488, Clauses 10.6 & 14.2.5 for checking the presence of CaCO₃ which may indicate false soil strength

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