



Edifica Colombia Ltda
 Cra 48 No. 98-57
 Bogotá D.C. Colombia
 Telephone: (057) 5086013
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BORING NUMBER BH-18

CLIENT SPIA - SOCIEDAD PUERTO INDUSTRIAL AGUADULCE PROJECT NAME PUERTO AGUADULCE
 PROJECT NUMBER 13016 PROJECT LOCATION AGUADULCE, BUENAVENTURA, COLOMBIA
 DATE STARTED 14/5/13 COMPLETED 15/5/13 GROUND ELEVATION 17 m 0 HOLE SIZE NQ
 DRILLING CONTRACTOR Edifica Colombia Ltda GROUND WATER LEVELS:
 DRILLING METHOD Rig XY1 AT TIME OF DRILLING --- 2.20m
 LOGGED BY Roberto Nieves CHECKED BY Luis F Vesga AT END OF DRILLING ---
 NOTES Upland borehole AFTER DRILLING ---

DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (kPa)	DRY UNIT WT. (Mg/m ³)	SPT N VALUE				
								20	40	60	80	
		(CL-ML) Silty CLAY, brown, low plasticity, damp	1	100								
		(CL) CLAY, dark brown, low plasticity, damp	SH 2	100								
		(CL-ML) Silty CLAY, gray with read bands, low to high plasticity, moistand moisture	SH 3	100								
2		(CL-ML) Silty CLAY, gray, low to high plasticity, moist	SPT 4	100	1-1-1 (2)							
		(CH) Silty CLAY, dark gray, low to high plasticity, moistand moisture	SPT 5	100	2-2-2 (4)							
		(CL) CLAY, dark gray, low to high plasticity, moistand moisture	SPT 6	100	3-2-3 (5)							
4		(ML) Sandy SILT, dark gray, low moisture (residual)	SPT 7	100	4-5-10 (15)							
		(ML) Sandy SILT, dark gray, low moisture (residual)	SPT 8	100	14-14-21 (35)							
6		(ML) Sandy SILT, dark gray, low moisture (residual)	SPT 9	100	15-25-30 (55)							
8		(ML) Sandy SILT, dark gray, low moisture (residual)	SPT 10	100	15-25-30 (55)							
10		Siltstone dark gray, low moisture	RC 11	80								

GEOECHIBPLOTS GEOTECHNICAL INVESTIGATION FOR SPIA. TEST BORINGS LOGS.GPJ GINT STD CANADA LAB.GDT 19/6/13

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								20 40 60 80	20 40 60 80
	XXXX XXXX XXXX	Siltstone dark gray, low moisture (continued)						PL	MC LL
								□ FINES CONTENT (%) □	
								20 40 60 80	20 40 60 80

Refusal at 9.00 meters.
 Bottom of borehole at 10.50 meters.

Preliminary