

**UCB-BYU-UCLA**  
**ZETAS-SaU-METU**  
 Joint Research  
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**Project Name:** Geotechnical Site Investigations at Lateral Spread Sites  
**Location:** Yalova Harbor, Yalova  
**Date:** August 3, 2000  
**Field Log by:** M. T. Yilmaz, K. Ö. Çetin  
**Operator:** ZETAS (Zemin Teknolojisi, A. S.)  
**Drilling Method:** Rotary wash with 9 cm-diameter tricone bit  
**Water Table Elevation:** 0.8 m  
**Notes:**

**Test ID:** SPT-YH3  
**GPS Coordinates:** 40.65971°N 30.26879°E  
**Elevation:**  
**Drilling Equipment:** Custom made, equivalent to Crealius XC90H  
**Responsible Engineers:** K. Ö. Çetin and M. T. Yilmaz, M.E.T.U.  
**SPT System:** Rope, pulley and cathead method. AWJ rods.  
**Hammer Type:** Safety Hammer (per Kovacs et al. 1983)

Depth Scale (m)	Lithology	USCS	Sample Type and No.	Recovery/Length (cm)	SPT Blows/15 cm	Casing Depth (m)	Rod Length (m)	Energy Ratio (%)	Description	$q_u$ Pocket Pen (kPa)	$s_u$ Torvane (kPa)	Moisture Content (%)	Liquid Limit	Plasticity Index	% fines < 75 $\mu$ m	< 5 $\mu$ m (%)	< 2 $\mu$ m (%)	D50 (mm)	D10 (mm)	Remarks
0									SM: Gray silty sand.											
3		SM	S-YH3-1	34/45	2-3-5	2.43	5.20	55*					NP	NP	16	-	-	0.20	<0.07	
4		SM SP-SM	S-YH3-2	30/45	5-6-6	3.20	6.72	60*					NP NP	NP NP	13 9	- -	- -	0.22 0.30	<0.07 0.079	
5		SP-SM	S-YH3-3	31/45	3-4-4	4.20	8.24	65*					NP	NP	10	-	-	0.25	0.074	
6		SM	S-YH3-4	35/45	3-5-6	5.20	9.77	65*					NP	NP	11	-	-	0.23	0.070	
7		SM	S-YH3-5	38/45	5-6-7	6.20	9.77	65*					NP	NP	17	-	-	0.18	<0.07	
8		SM	S-YH3-6	38/45	3-5-6	7.20	11.29	65*					NP	NP	33	-	-	0.10	<0.07	
9		CL	S-YH3-7	43/45	3-2-3	8.20	12.82	65*	CL: Gray silty clay.				31	19	56	18	16	0.074	<1 $\mu$ m	
10		CL	SH-YH3-8	40/50		9.10					31	35	17	90	25	18	0.026	<1 $\mu$ m		
11		CL	SH-YH3-8	40/50		10.40					32	36	18	80	24	17	0.028	<1 $\mu$ m		

**Legend**

S: Spit Spoon (SPT) SH: Shelby Tube \* Estimated Energy Ratio NP: Nonplastic