

WASHINGTON
STATE HIGHWAY COMMISSION
DEPARTMENT OF HIGHWAYS

Original to Materials Engineer
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LOG OF TEST BORING

S.H. _____ S.R. 5 Section Nisqually River Bridge Job No. L-1048
 Hole No. H-2 Sub Section _____ Cont. Sec. 3042
 Station L 1597+635 Offset 18' Lt. L^L ∅ Ground El. 9.9'
 Type of Boring Jet and Chop Casing 3" - 125' W.T. El. -6.6' below gr. ele
 Inspector James D. Lance Date June 25, 1965 Sheet 1 of 6

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL	
				Ground surface to 1'4": Very loose silty fine sand, roots, and organic matter.	
				A B C	Very loose medium fine U-1 (1.0' to 2.5') 1'4" to 3'9": Sub-angular sand.
				1	
	4			2	3'9" to 4'3": Layer of very loose silty
				2	D-2 (2.5' to 4.5') Retained 12" fine sand.
5				3	Very loose medium fine sub-angular sand with 4'3" to 12'4": fragments of rotten wood.
				A B	U-3 (5.0' to 6.7')
				2 1	
	2			1	D-4 (6.7' to 8.7') Retained 11"
				2	
10					U-5 (9.0' to 10.7') No Recovery
				1	
	4			1	D-6 (10.7' to 12.7') Retained 11"
				3 15	Medium dense, fine to coarse sand and fine 12'4" to 18'6": to medium gravel.
15					
			14 12		
	23		11 11	D-7 (15.0' to 17.0') Retained 5"	
				18'6" to 19'0": Layer of sand	
				19'0" to 19'6": Layer of sand and gravel.	
				Dense fine to coarse sub-angular sand, with	
20				19'6" to 32'6": fine to medium gravel.	

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL	
			↑	U-8 (20.0' to 21.0') No Recovery	
			↓		
	25		15	↑	
			13	↓	
			12	↑	
			13	↓	D-9 (21.0' to 23.0') Retained 8"
25					
	18		8	↑	
			8	↓	D-10 (25.0' to 27.0') Retained 4"
			10	↑	
			10	↓	
30					
	18		10	↑	
			7	↓	D-11 (30.0' to 32.0') Retained 3"
			11	↑	
		8	↓		
				Medium dense, medium fine sub-angular sand, 32'6" to 34'6": with silt lenses.	
		A	↑		
		B	↓	U-12 (33.0' to 34.1')	
35	35	13	↑		
		17	↓		
		18	↑		
		20	↓	D-13 (34.1' to 36.1') Retained 15" - 34'6" to 44'6": Dense, medium fine sub-angular sand with pea gravel and pockets of silt	
40	34	11	↑		
		16	↓	D-14 (39.0' to 41.0') Retained 10"	
		18	↑		
		18	↓		
45				Soft gray silt containing fragments of 44'6" to 49'8": fibrous peat.	

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
			↑ A	U-15 (45.0' to 46.7')
			↓ B	
			1 ↓ C	
	4		2 ↓	D-16 (46.7' to 48.7') Retained 23"
			2 ↓	
50		↓		49'8" to 51'6": Very loose gray silty fine sand
		↑		
		↓		U-17 (50.0' to 51.1') No Recovery
	5	↑	4 ↑	Layer of
		↓	2 ↓	D-18 (51.1' to 53.1') Retained 12" - 51'6" to 52'6": medium sti
		↑	3 ↑	
		↓	5 ↓	gray silt, with fibrous peat fragments.
				Loose gray silty fine sand with lenses
				52'6" to 55'6": of soft gray fine sandy silt.
55		↓		
		↑		
	25	↓	17 ↓	U-19 (55.0' to 55.7') No Recovery
		↑	12 ↑	
		↓	13 ↓	D-20 (55.7' to 57.7') Retained 16" - 55'6" to 59'0": Dense
		↑	18 ↑	medium fine sub-angular sand, with peat fragments.
		↓		59'0" to 64'0": Medium dense, medium coarse sub-angular sand
60		↑		with lenses of silty fine sand.
	24	↓	6 ↓	
		↑	7 ↑	D-21 (60.0' to 62.0') Retained 18"
		↓	17 ↓	
		↑	25 ↑	
		↓		Medium stiff, gray silt, with lenses of
65		↑		64'0" to 68'4": mottled brown-gray clay silt; contains peat
		↓		fragments.
		↑	A ↑	
		↓	B ↓	U-22 (65.0' to 66.5')
		↑	C ↑	
	6	↓	3 ↓	
		↑	24 ↑	D-23 (65.0' to 66.5') Retained 24"
		↓	4 ↓	68'4" to 68'5": Lense of medium sand.
70		↑		68'5" to 71'4": Medium stiff gray, varved fine sandy clayey
		↓		silt; contains hairline lenses of peat.

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DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL	
			↑ A	U-24 (70.0' to 71.5') 71'4" to 74'0": Medium dense, gray fine sand, with silt lenses and peat fragments.	
			3		
	20		7		
			13	D-25 (71.5' to 73.5') Retained 18"	
			21		
75			↑ 8	Medium dense, medium fine sub-angular sand, 74'0" to 84'0": with fine gravel.	
	28		13	D-26 (75.0' to 77.0') Retained 12"	
			15		
			25		
80			↑ 6		
	27		9	D-27 (80.0' to 82.0') Retained 10"	
			18		
			26		
85			↑ A	Very stiff, mottled brown-black organic 84'0" to 88'0": clayey silt.	
			B	U-28 (85.0' to 86.5')	
			C		
	20		2		
			8		
			12	D-29 (86.5' to 88.5') Retained 24"	
			17		
90				88'0" to 90'0": Medium dense, gray fine sand.	
					Dense, gray, fine to coarse sub-angular sand, 90'0" to 93'0": with pea gravels.
	39		6	D-30 (90.0' to 92.0') Retained 13"	
			18		
			21		
			34		
95				Medium dense, saturated, clean, fine to medium 93'0" to 99'4": gravel, with fine to coarse sand.	

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DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	16		12 ↑ 10 6 ↓ 5	D-31 (95.0' to 97.0') Retained 4"
100				Dense, fine to coarse sub-angular sand and 99'4" to 107'6": fine to medium gravel, with silt lenses.
	29		15 ↑ 16 13 ↓ 10	D-32 (100.0' to 102.0") Retained 4"
105				
	32		11 ↑ 19 13 ↓ 13	D-33 (105.0' to 107.0') Retained 9"
				Very dense fine to medium gravel imbedded in 107'6" to 127'0": matrix of gray silty fine to coarse sub-angular sand.
110				
	96		26 ↑ 38 58 ↓ 64	D-34 (110.0' to 112.0') Retained 7"
115			46 ↑ 38 33 ↓ 65	D-35 (115.0' to 117.0') Retained 17"
	71			
120				

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DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	59	↓	23 ↑	D-36 (120.0' to 122.0') Retained 7"
			30	
			29 ↓	
			33	
125	65	↓	20 ↑	D-37 (125.0' to 127.0') Retained 4"
			31	
			34 ↓	
			22	
				Bottom of Hole: 127'0". Drilling stopped after penetrating 19'6" of Dense sand and Gravel.
				Samples dry from surface to 6'6". Samples wet from 6'6" to bottom of hole. Low percent water loss from surface to 12'4" and from 32'6" to 74'0". Moderate percent water loss from 74'0" to 90'0". High percent water loss from 12'4" to 32'6", and from 90'0" to bottom of hole. Casing pulled easy.
				Water level: -6.6' below ground elevation before putting casing in ground. water level in hole fluctuates with rise and fall of water in tidal river adjacent to hole.