

DEPARTMENT OF THE INTERIOR

U.S GEOLOGICAL SURVEY

Geotechnical Drill-Hole Logs from the Southern Seattle Area, Washington

by

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Open-File Report 90-90

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CONTENTS

Abstract	1
Introduction	1
Purpose of Report	1
Nature and Sources of Data	2
Format of Geotechnical Logs	2
Relationship of Quaternary Stratigraphy to Units Shown on Logs	3
References	5
Appendix	6

ABSTRACT

One hundred sixty-four geotechnical logs are presented from drill-holes in the southern Seattle area of Washington. The logs are from a number of county and municipal sources and the original drill-hole information appeared in a number of different formats. This compilation brings into a common format lithologic descriptions, textural information, and standard penetration data from these varied sources. Water level information, water content data, and measures of Atterberg limits are presented where that information was available in the original logs. All information presented in this report was derived from previous investigations. No new information is presented that is not already available in public-domain records.

INTRODUCTION

Purpose of Report

A companion report (Yount and others, in press) discusses liquefaction potential in the southern Seattle area and makes use of the standard penetration data derived from these 164 geotechnical wells. These data were derived from numerous sources over the years 1979-1982, and the formats of the original data were varied. The purpose of this report is to collect and present this geotechnical drill-hole data in a common format as a source for the summary plots given in Yount and others, in press. The drill-holes illustrated here represent only a small portion of the total number of drill-holes available from the sources consulted. Drill-hole selection was influenced by a need to obtain data from each of the major stratigraphic units in the southern Seattle area, as well as a desire to get observations from all parts of the study area. Where a number of drill-holes existed in a particular area, the deepest or most stratigraphically complete record was selected.

Nature and Sources of Data

Unless otherwise noted on the log, holes were rotary drilled and the standard penetration tests were performed with a 140 lb. weight dropped 30 in. using a 2 in. outside diameter split-spoon sampler. Drill-hole data were derived from the following sources: bridges and highway construction from the Washington State Division of Highways, Lacey, Washington; City of Seattle municipal sewer borings from the Seattle City Engineering Department; downtown high-rise buildings and Kingdome investigations from the Seattle City Engineering Department and the King County Building Inspection Department.

We would like to thank Al Kilian and LeRoy Wilson of the Washington State Department of Transportation Materials Testing Laboratory for their help in locating drill-hole information. Barry Lipnick of the Seattle Engineering Department and Charles Fulmer of the King County Planning Department provided a great deal of help in gaining access to valuable geotechnical information. Terry Olmstead of Shannon and Wilson, Inc. and Dennis Stettler of Hart Crowser and Associates, Inc. suggested sources of subsurface information.

FORMAT OF GEOTECHNICAL LOGS

Photocopies or personal notes made from the original logs at each of the data sources were redrafted to a common format (see Appendix). The location of each drill-hole contained in the Appendix is shown on Plate 1. Standard penetration values, in blows per foot, are listed alongside a written description of lithology and a graphic portrayal of texture down each drill-hole. Water levels, water contents, and Atterberg limits are listed for those logs that contained such data in the original descriptions. The water level data include date of observation and notation of possible perched conditions when that information was contained in the original log. Water content and Atterberg limits exist for drill-holes 79030, 79033 through 79043, and 82012 (No Atterberg limits for drill-holes 79033 and 79041). Water content is expressed as weight percent water relative to the weight percent of solid material. Atterberg limits represent the water content at the liquid limit and plastic limit, respectively,

for a given sample. On the logs these limits are, again, expressed as weight percent water relative to weight percent solid with the smaller water content expressing the liquid limit and the larger water content expressing the plastic limit.

Relationship of Quaternary Stratigraphy to Units Shown on Logs

The Quaternary sediments overlying bedrock in the southern Seattle area consist of relatively flat-lying interbedded glacial and nonglacial deposits (fig. 1). The older portion of the Quaternary section penetrated by the drill-holes shown in this report contains at least three nonglacial and two glacial sequences of deposits. The oldest nonglacial deposits are made up of moderately consolidated fluvial sand, silt, clay and minor gravel. The oldest glacial unit, the Beacon Hill Till (Stark and Mullineaux, 1950) is a compact clayey till with well-rounded cobbles and pebbles. Interposed between the Beacon Hill Till and the next overlying glacial unit is a sequence of nonglacial fluvial and lacustrine sand, silt, clay, gravel and peat known as the Duwamish Formation (Stark and Mullineaux, 1950). The glacial unit atop the Duwamish Formation is the Klinker Till (Stark and Mullineaux, 1950), a unit lithologically similar to the Beacon Hill Till. Fluvial and lacustrine sediments, similar in lithology to the Duwamish Formation make up the sequence of Olympia nonglacial sediments that overlie the Klinker Till.

Sediments, collectively termed Vashon Drift, representing the last major advance and retreat of ice into Puget Sound commonly overlie the sequence of older glacial and nonglacial sediments throughout the southern Seattle area. The proglacial-lacustrine Lawton Clay and proglacial-fluvial or lacustrine Esperance Sand sequence of Mullineaux and others (1965) usually grades upward to coarse-grained, gravelly outwash deposits that were accumulating in front of the advancing icesheet. The Vashon Till overlies the advance outwash complex and consists of very compact clayey to sandy till containing abundant cobbles and boulders. Recessional outwash deposits overlying the Vashon Till generally consist of poorly sorted gravelly sands.

Holocene alluvium and estuarine deposits and historic artificial fill make up the youngest sediment types that have accumulated in the southern Seattle area.

Grouping of the Quaternary sediments into stratigraphic classes for purposes of liquefaction susceptibility studies followed the following scheme:

Bedrock

All Pre-Vashon Nonglacial Deposits = Qn

All Pre-Vashon Glacial Deposits = Qg

Vashon Advance Outwash Deposits,
including Lawton Clay and Esperance Sand = Qva

Vashon Till = Qvt

Vashon Recessional Deposits = Qvr

Holocene Alluvium and Estuarine Deposits = Qal

Artificial Fill = af

These designators are indicated in the written description of lithology given in each log.

REFERENCES

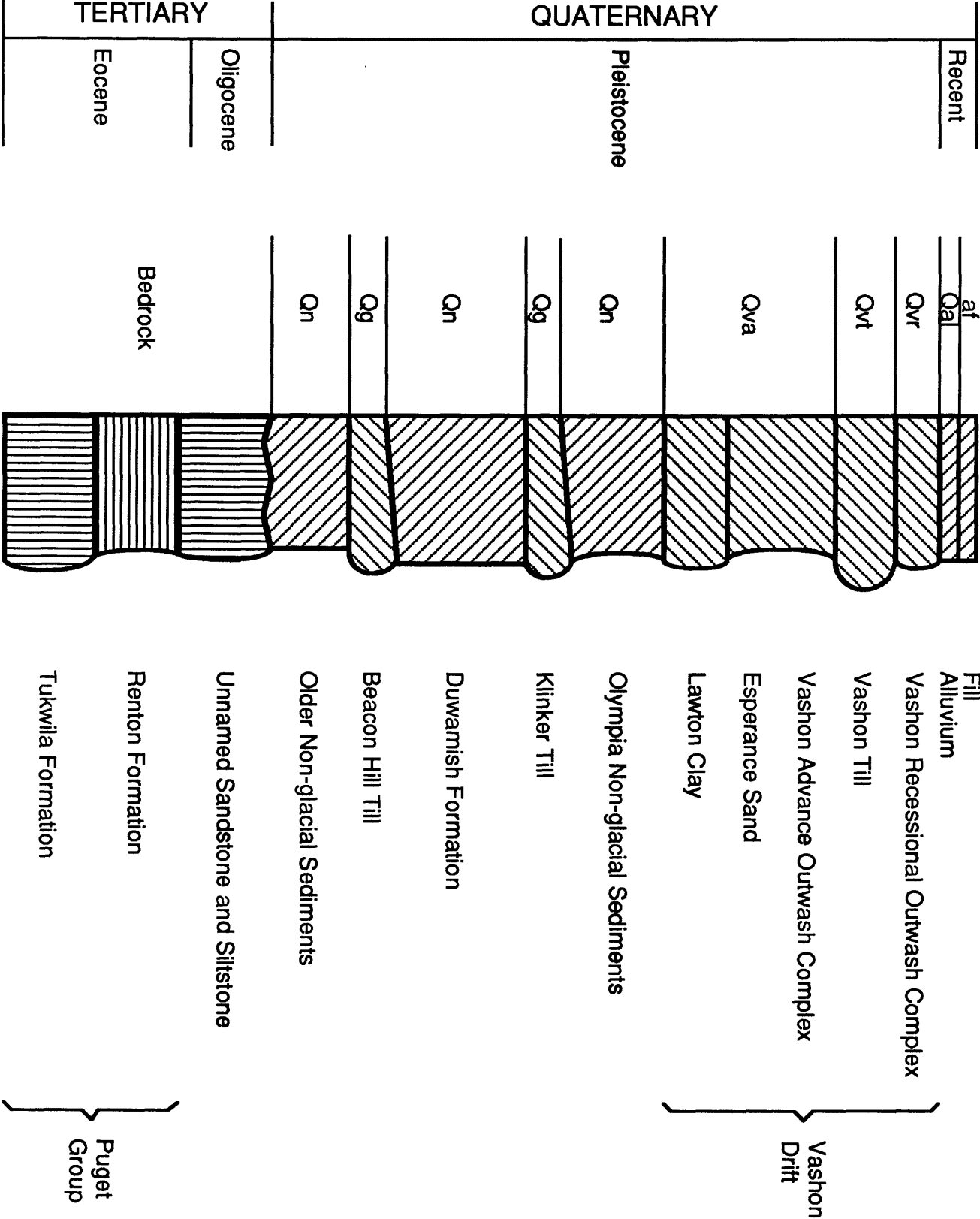
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- Yount, J.C., Vick, G.S., and McCoy, Gail, in press, The Standard Penetration Versus Depth Relations of Quaternary Glacial and Nonglacial Deposits in the Southern Seattle Area, Washington: Implications for Studies of Liquefaction Susceptibility: U.S. Geological Survey Open-File Report.

APPENDIX

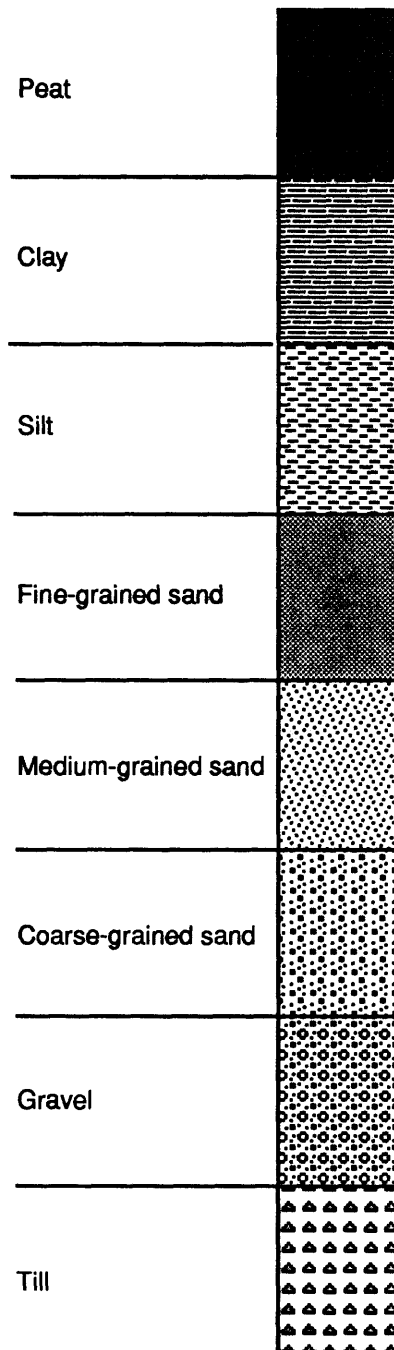
GEOTECHNICAL DRILL-HOLE LOGS

GENERALIZED STRATIGRAPHIC SECTION, SOUTHERN SEATTLE AREA

Stratigraphic groupings
for this study



PATTERNS FOR TEXTURAL CLASSES
PORTRAYED ON GEOTECHNICAL LOGS



NUMBER: 79001

SITE: West Marginal Way Cutoff, test #13.

GROUND ELEVATION: 4.9'

INVESTIGATOR: Washington State Division of Highways

9

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Sandy silt with organic material. [Qal]	0 2 4 6				
	8		8		
	10				
	12		24		
	14				
Fine- to medium-grained sand; pocket of very loose, fine- to medium-grained sand. [Qal]	16 18 20		18		
	22				
	24				
	26				
	28				
	30		12		
	32				
	34		11		
	36				
Fine- to medium-grained silty sand; occasional silt layers and decomposed wood. [Qal]	38 40 42		15		
	44		14		
	46				
	48		18		
	50				
Fine- to medium-grained sand; trace of silt [Qal]	52 54		20		
	56				
	58				
Sandy silt with occasional marine shells. [Qal]	60 62		4		
	64				
Clayey silt. [Qal]	66 68		100		
	70				
Fine- to medium-grained sand. [Qal]	72 74		58		
	76				
Very dense, sandy gravel; some gravel clasts decomposing. [Qal]	78 80				
	82		69		

T. D. 82'

NUMBER: 79002

SITE: West Marginal Way Cutoff, Test # 14.

GROUND ELEVATION: 5.3'

INVESTIGATOR: Washington State Division of Highways.

10

Lithology	Water Level	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Sandy silt with decomposed wood and organic material. [Qal]		0				
		2				
		4				
		6				
		8				
		10				
		12				
		14				
		16		15		
		18				
Fine- to medium-grained sand; occasional layers of sandy silt and silt, some decomposed wood fragments. [Qal]		20				
		22				
		24				
		26		13		
		28				
		30				
		32		38		
		34				
		36				
		38		14		
		40				
Sandy silt and silt with wood particles. [Qal]		42				
		44		22		
		46				
		48				
		50				
Alternating layers of sand and silt. [Qal]		52				
		54				
		56				
		58				
		60				
Silty sand with marine shells; layers of gravel and shells. [Qal]		62				
		64		39		
Soft, silty clay. [Qal]		66				
		68				
Fine- to medium-grained sand. [Qal]		70		42		
		T. D. 70'				

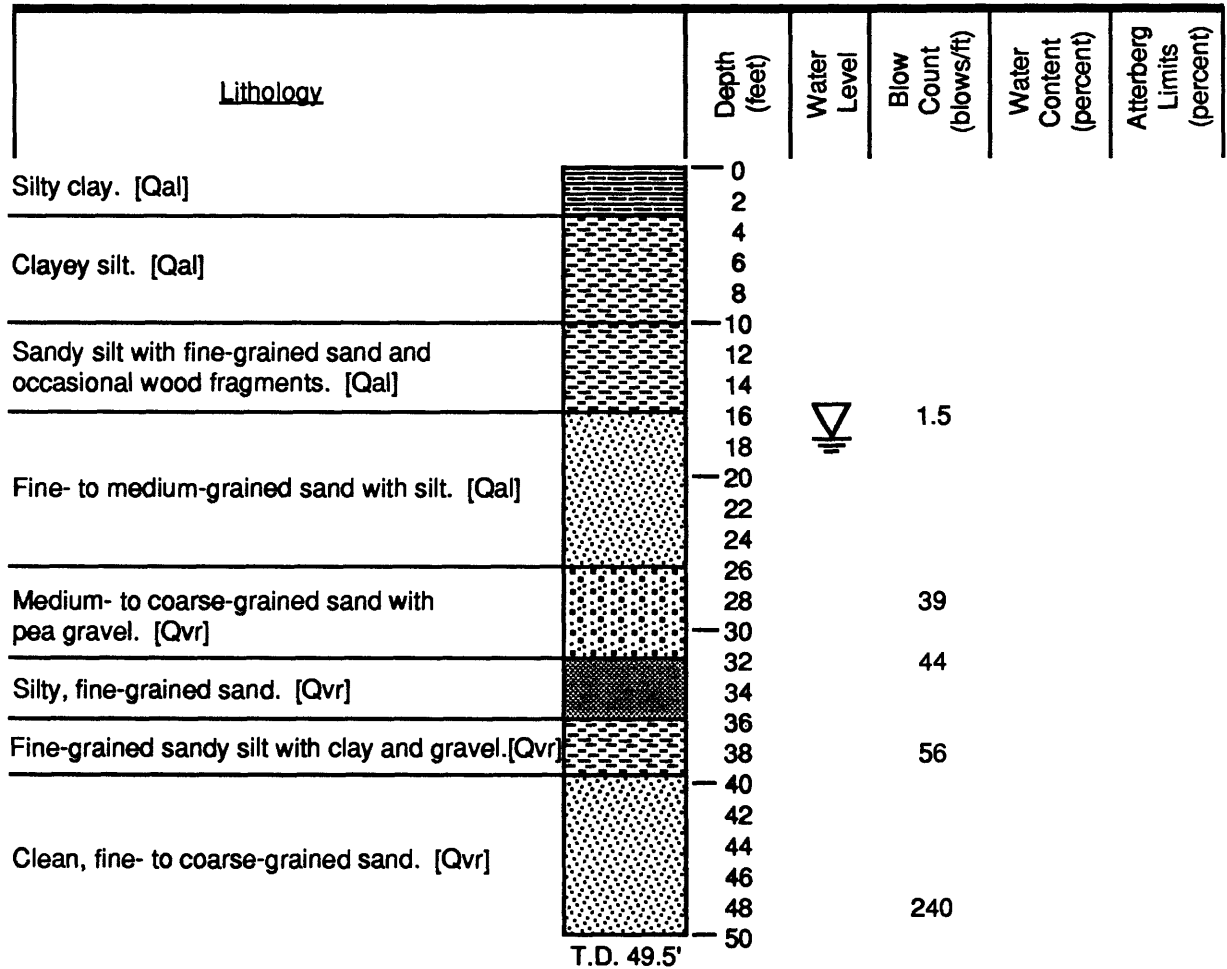
NUMBER: 79003

11

SITE: West Marginal Way and 14th Avenue Intersection, test #9.

GROUND ELEVATION: 4.8'

INVESTIGATOR: Washington State Division of Highways




NUMBER: 79004

12

SITE: West Marginal Way and 14th Avenue Intersection, Test #10.

GROUND ELEVATION: 5.4'

INVESTIGATOR: Washington State Division of Highways.

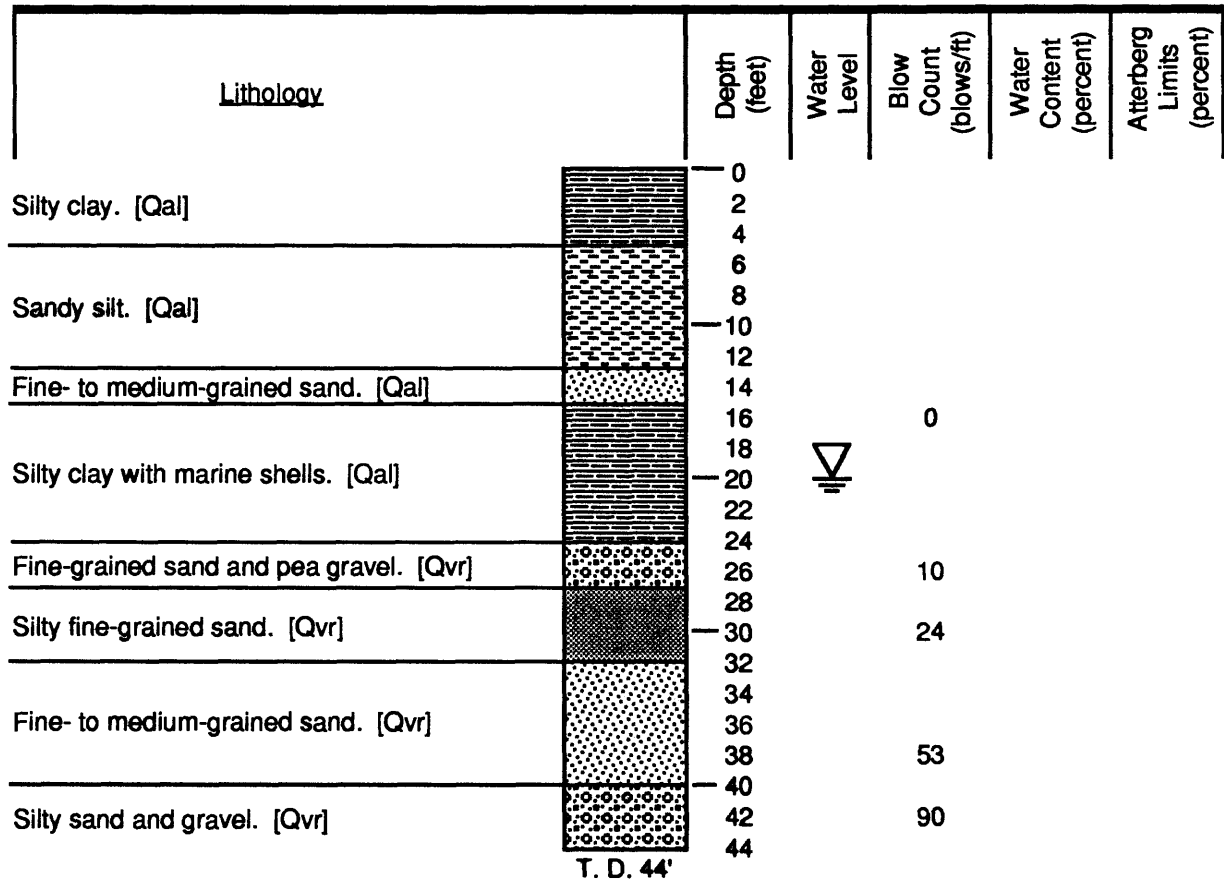
Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Silty clay and silt with organic material. [Qal]	0		1		
	2				
	4				
	6				
	8				
10					
12					
14					
16					
18					
Clayey silt with marine shells. [Qal]	20				
	22		32		
	24				
	26		85		
	28		50		
Sandy gravel; thin cobble layer at 27'. [Qvr]	30				
	32		400		
	34				
	36		100/0.5"		
	38				
T. D. 37'					

NUMBER: 79005

SITE: West Marginal Way and 14th Street Intersection, Test #12.

GROUND ELEVATION: 5.0'

INVESTIGATOR: Washington State Division of Highways.



NUMBER: 79006

SITE: I-5 and Spokane Street Intersection, CY-1.

GROUND ELEVATION: 76'

INVESTIGATOR: Washington State Division of Highways.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Silty organic clay; sand layers. [Qva]	0				
	2				
	4		12		
	6				
Interbedded, silty sand and clayey silt; some fine-grained sand and gravel. [Qva]	8		8		
	10				
	12				
	14		10		
Silty clay; layers of fine-grained sand, pea gravel, and organic material. [Qva]	16				
	18		7		
	20				
	22				
Fine-grained sand; small clay pockets. [Qva]	24		11		
	26				
	28		9		
	30				
Silty clay; traces of organic material. [Qva]	32				
	34		11		
	36				
	38		16		
Silt; fine-grained sand layers. [Qva]	40				
	42				
	44		16		
	46				
Silt to medium-grained sand; clay pockets. [Qva]	48		31		
	50				
	52				
	54		24		
Silty clay and clay; pockets of fine-grained sand and silt. [Qva]	56				
	58		26		
	60				
	62				
	64		36		
	66				
	68		27		
	70				
	72				
	74		26		
	76				
	78		32		
	80				
	82				
	84		27		
	86				
	88		31		
	90				

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NUMBER: 79006 (cont.)

15

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
see previous page	90				
	92				
	94		32		
	96				
	98		38		
Clay; peat layers and many silt and fine-grained sand layers. [Qn]	100				
	102				
	104		40		
	106				
	108				
Medium- to fine-grained sand. [Qn]	110				
	112				
	114		103		
Fine-grained sand to clay; shells. [Qn]	116				
	118				
	120				
Clay; sand and silt lenses. [Qn]	122				
	124		43		
	126				
	128		45		
	130				
T.D. 130'					

NUMBER: 79007

SITE: I-5 and Spokane Street Intersection, SA-22

GROUND ELEVATION: 10.08'

INVESTIGATOR: Washington State Division of Highways.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Silty clay. [af]	0				
	2				
	4				
	6		2		
	8				
Fine-grained sand. [Qal]	10				
Fine-grained silt; some organic material, silty sedge peat. [Qal]	12		10		
	14				
	16		5/9"		
	18				
Fine- to medium-grained sand; some silt. [Qal]	20				
	22		17		
	24				
	26		32		
	28				
	30		45		
	32				
	34				
	36		56		
	38				
Medium-grained sand; some shell fragments and peat. [Qal]	40				
	42		40		
	44				
	46		84		
	48				
	50				
	52		44		
	54				
	56		87		
	58				
	60				
	62				
	64		84		
	66				
Fine- to medium-grained sand; silt pockets. [Qal]	68				
	70		64		
	72				
	74				
	76				
	78				
Silty, very fine-grained sand; strong sulfide odor and sandy silt pockets. [Qal]	80		64		
	82				
	84				
	86				
	88				
	90		36		


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NUMBER: 79007 (cont.)
SITE:
GROUND ELEVATION:
INVESTIGATOR:

Lithology		Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
see previous page		90				
		92				
		94				
		96				
Silt; some very fine-grained sand. [Qal]		98				
		100		35		
		102				
		104				
		106				
		108				
		110		41		
		112				
		114				
		116				
		118				
		120		58		
		122				
		T. D. 121.5'				

NUMBER: 79008

SITE: I-5 and Spokane Street Intersection, CY-6.

GROUND ELEVATION: 123.2'

INVESTIGATOR: Washington State Division of Highways.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Silt; some pea gravel. [Qva]	0				
	2				
	4		55		
Clay; silt and sand pockets and occasional pebbles. [Qva]	6				
	8		58		
	10				
Silt. [Qva]	12				
	14		110		
	16				
	18		37		
	20				
	22				
	24		37		
	26				
Silty clay; silt pockets. [Qva]	28		32		
	30				
	32				
	34		32		
	36				
	38		32		
	40				
Clayey silt; silt pockets. [Qva]	42				
	44		35		
	46				
	48		37		
	50				
Silty clay; silt pockets and lenses. [Qva]	52				
	54		34		
	56				
	58		53		
	60				
Silt. [Qva]	62				
	64		65		
	66				
	68		85		
Silty clay; silt pockets. [Qva]	70				
	72				
	74		44		
	76				
	78		44		
	80				
Clayey silt to silt. [Qva]	82				
	84		57		
	86				
	88				
	90		51		

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NUMBER: 79008 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
see previous page	90				
	92				
	94		55		
	96				
	98		39		
	100				
	102				
	104		49		
Gravel and occasional large pebbles; sand lenses. [Qn]	106				
	108		92/9"		
	110				
Silt. [Qn]	112				
	114		61		
	116				
	118		49		
Silty clay; sand pockets and silt lenses. [Qn]	120				
	122				
	124		35		
	126				
	128		30		
	130				
	132				
Clayey silt; small clay pockets and occasional pea gravel. [Qn]	134		41		
	136				
	138		33		
	140				
	142				
	144		36		

T. D. 145'

NUMBER: 79009

SITE: I-5 and Spokane Street Intersection, SA-29.

GROUND ELEVATION: 177.6'

INVESTIGATOR: Washington State Division of Highways.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Gravelly silty sand; clay pockets. [Qva]	0				
	2		24		
	4				
	6				
	8		50		
Gravelly medium- to coarse-grained sand. [Qva]	10				
	12		129		
	14				
	16		54		
Sandy clay; some pea gravel. [Qva]	18				
Coarse- to medium-grained sand; pea gravel. [Qva]	20				
	22		119		
	24				
	26				
Silt. [Qva]	28		71		
	30				
	32				
	34		116		
Fine-grained sand. [Qva]	36				
	38		88		
	40				
	42		59		
	44				
	46		118/6"		
	48				
	50		51		
Cemented sandy silt and pea gravel. [Qg]	52				
	54				
	56		44		
	58				
Clayey silt; some sand and pea gravel. [Qg]	60				
	62		48		
	64				
	66				
	68				
	70				
	72		102		
	74				
Clayey silt; silt pockets and pea gravel. [Qn]	76				
	78		80		
	80				
	82				
see next page.	84		76		
	86				
	88		118		
	90				

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NUMBER: 79009 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Silt and clayey silt; silt pockets. [Qn]	90				
	92		148/10"		
	94				
	96				
	98		121		
Clay and silty clay; silt pockets. [Qn]	100				
	102		59		
	104				
	106				
	108		44		
T. D. 108.5'					

NUMBER: 79010

SITE: I-5, just North of Boeing Cutoff, HQ5.

GROUND ELEVATION: 8.0'

INVESTIGATOR: Washington State Division of Highways.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Silt. [Qal]	0				
	2				
	4		10		
	6				
	8				
Fine- to medium-grained sand; silt seams. [Qal]	10				
	12				
	14		16		
	16				
	18		12		
	20				
	22				
	24		17		
	26				
	28		27		
Medium-grained sand; peat and wood fragments. [Qal]	30				
	32				
	34		12		
Fine-grained sand; trace of silt and wood fragments. [Qal]	36				
	38		23		
	40				
	42				
	44		35		
	46				
	48		28		
	50				
Silt; organic material. [Qal]	52				
	54		20		
	56				
	58				
	60				
	62		4		
	64				
T. D. 65'					

NUMBER: 79011

SITE: I-5, just north of Boeing Cutoff, HQ6.

GROUND ELEVATION: 8.0'

INVESTIGATOR: Washington State Division of Highways.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Clayey silt. [Qal]	0 2 4				
Silty fine-grained sand. [Qal]	6 8		25		
Medium- to coarse-grained sand; wood fragments and trace of silt. [Qal]	10 12 14		10		
	16 18 20 22 24 26 28		26 28 16		
Silty fine-grained sand; silt seams and trace of gravel. [Qal]	30 32 34 36 38 40 42 44		32 34 46		
Silt; organic material. [Qal]	46 48				
Silty fine-grained sand. [Qal]	50 52 54				
	56 58				
Silt; organic material. [Qal]	60 62 64		6		
	66 68		42		
Coarse-grained sand and gravel; shells. [Qvr]	70 72 74 76		37 50		
T. D. 77'					

NUMBER: 79012

SITE: I-5, just north of Boeing Cutoff, HQ4.

GROUND ELEVATION: 9.0'

INVESTIGATOR: Washington State Division of Highways.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Silty clay. [Qal]	0				
	2				
	4				
	6				
	8				
	10				
Silty fine-grained sand; trace of silt. [Qal]	12		33		
	14				
	16		27		
	18				
	20		28		
	22				
	24		38		
	26				
	28				
	30		20		
	32				
	34				
	36				
	38				
Medium-grained sand. [Qal]	40				
	42		7		
	44				
	46				
Silt; organic material. [Qal]	48				
	50				
	52				
	54				
	56				
	58				
	60				
	62		4		
	64				
	66				
	68				
	70				
	72		4		
	74				
Sandy silt; shells. [Qal]	76				
	78		45		
Silty sand and gravel; shells. [Qvr]	80				
	82				
	84		44		
	86				
Hard carbon peat and gravel. [Qvr]	88				
	90				
Sand and gravel. [Qvr]	92				
	94		83		
Sand and gravel. [Qvr]	96				
	98		80		

T. D. 99'

NUMBER: 79013

SITE: I-5, near south end of Boeing Field, Test Hole 905.

GROUND ELEVATION: 118'

INVESTIGATOR: Washington State Division of Highways.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Gravelly, silty sand. [Qvt]	0				
	2				
	4				
	6				
	8		19		
Silt with clayey silt veins. [Qva]	10				
	12				
	14		25		
	16				
	18		33		
Silty sand. [Qva]	20				
	22				
	24		34		
	26				
	28		39		
Silty clay with clay veins. [Qva]	30				
	32				
	34		34		
	36				
	38				
	40				
	42		30		
	44				
	46				
	48		31		
T. D. 48'					

NUMBER: 79014

SITE: Test hole 942; I - 5 Middle of Boeing Field.

GROUND ELEVATION: 82'

INVESTIGATOR: Washington State Division of Highways

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Gravelly, sandy silt; layers of silt and fine-grained sand.	0				
	2				
	4				
	6		100/11"		
	8				
Silty, fine- to medium-grained sand.	10				
	12		52		
	14				
	16				
	18		46/6"		
Gravelly, silty, fine-grained sand. [Qvt]	20				
	22				
	24		50/4"		
	26				
	28				
Silt. [Qva]	30		53/6"		
	32				
	34				
	36				
	38		45		
Silty, medium-grained sand. [Qva]	40				
	42				
	44		46		
	46				
	48		63		
T.D. 48'					

NUMBER: 79015

SITE: Station 183+50 Alaska Way viaduct near Spokane Street, hole #1.

GROUND ELEVATION: 5.6'

INVESTIGATOR: Washington State Division of Highways.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Gravelly fill. [af]	0				
	2				
	4				
	6				
	8				
Silty very fine-grained sand. [af]	10		7		
	12				
	14				
	16		9		
	18				
	20				
	22		10		
	24				
Silt. [Qal]	26				
	28		47		
	30				
	32				
	34				
	36				
	38				
	40		5		
	42				
	44		28		
Silty very fine-grained sand. [Qal]	46				
	48				
Silty very fine-grained sand; some clam shells. [Qal]	50		37		
	52				
Silty very fine-grained sand; occasional rotten wood. [Qal]	54				
	56		17		
Silty very fine-grained sand. [Qal]	58				
	60		29		
	62				
	64		34		
Silty very fine-grained sand; some clam shells and thin silt layers. [Qal]	66				
	68				
	70		45		
	72				
Silty very fine-grained sand; some clam shells and rotten wood. [Qal]	74		15		
	76				
	78				
	80		17		
Lost Samples.	82				
	84		15		
	86				
	88				
	90		16		
	92				
	94		25		
	96				
	98		5		
	100				

T. D. 102'

NUMBER: 79016

SITE: Station 194+97 Alaska Way near Spokane Street, hole #8.

GROUND ELEVATION: 6.4'

INVESTIGATOR: Washington State Division of Highways.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Sand; small amounts of fine-grained gravel. [af]	0				
	2				
	4				
	6				
	8				
Silt; some very fine grained sand. [af]	10		3/18"		
	12				
	14				
	16				
	18				
Fine-grained sand. [af]	20		18		
	22				
	24				
	26				
	28				
Silt. [Qal]	30		23		
	32				
Silty very fine grained sand; some clam shells. [Qal]	34				
	36		19		
	38				
	40				
	42		49		
Silty very fine grained sand. [Qal]	44				
	46				
	48				
	50		14		
	52				
Interbedded, thin layers of silty very fine grained sand and silt; some organic material. [Qal]	54		16		
	56				
	58				
	60		21		
	62				
Silty very fine grained sand; thin silt layers and some clam shells. [Qal]	64				
	66		23		
	68				
	70		14		
	72				
Silty very fine grained sand; thin silt layers. [Qal]	74		11		
	76				
	78		25		
	80				
	82		23		
	84				
	86				
	88		12		
	90				

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NUMBER: 79016 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
See previous page	90				
Silt. [Qal]	92				
	94		3		
	96				
	98				
	100				
	102				
	104				
	106		23		
	108				
	110				
	112		36		
	114				
	116		8		
	118				
	120		12		
	122				
	124		22		
	126				
	128				
Interbedded, thin layers of silty fine-grained sand and silt. [Qal]	130		75		
T. D. 131.5'					

NUMBER: 79017

SITE: Station 204+25; Alaska Way Viaduct south of Spokane Street, hole #14.

GROUND ELEVATION: 8.2'

INVESTIGATOR: Washington State Division of Highways.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Silty gravelly sand. [af]	0				
	2				
	4				
Silty sand. [af]	6				
	8				
	10		5		
	12				
	14		1		
	16				
Silt; sand seams. [Qal]	18				
	20				
	22		16		
Fine- to medium-grained sand; silt seams. [Qal]	24				
	26		14		
	28				
	30				
	32		21		
	34				
Fine- to medium-grained sand. [Qal]	36		34		
	38				
	40				
	42		66		
	44				
	46				
	48		5		
	50				
Silt and silty fine-grained sand. [Qal]	52				
	54		9		
	56				
Silt. [Qal]	58		5		
	60				
	62		12		
	64				
Silt; silty sand seams. [Qal]	66		5		
	68				
	70		19		
	72				
Fine- to medium-grained sand; sandy silt seams. [Qal]	74				
	76		32		
	78				
	80		20		
Silty medium- to fine-grained sand; few sandy silt seams. [Qal]	82				
	84		16		
	86				
Fine- to medium-grained sand with silt seams [Qal]	88				
	90		44		
	92				
	94		21		
	96				
Fine- to medium-grained sand; fine-grained sandy silt seams. [Qal]	98				
	100		50		

T D 101'

NUMBER: 79018

SITE: Cloverdale Interchange, Highway 509, station U-13+00, hole #1.

GROUND ELEVATION: 16.2'

INVESTIGATOR: Washington State Division of Highways.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Fine- to medium-grained sand with occasional gravel. [af]	0 2 4	▽ =	7		
Soft, fine sandy silt with occasional organic silt lenses and lenses of silty fine sand. [Qal]	6 8		5		
Moderately compact, fine- to medium-grained sand. [Qal]	10 12 14		19		
Moderately loose, silty, fine- to medium-grained sand; occasional shell fragments and organic material, lenses of fine to coarse sand. [Qal]	16 18 20		5 19		
Compact, silty fine- to medium-grained sand and fine- to coarse-grained sand; occasional gravel and thin lenses of silty fine sand. [Qvr]	22 24 26 28 30		31 30		
Very firm, sandy clayey silt with gravel. [Qvt]	32 34 36 38 40		124 110		
Compact, fine- to coarse-grained sand and gravel; occasional pockets and lenses of silty fine- to coarse-grained sand. [Qn]	42 44 46 48 50		81 72		
T. D. 50'					

NUMBER: 79019

SITE: Cloverdale Interchange, Highway 509, station BR-51+00, hole #2.

GROUND ELEVATION: 37.6'

INVESTIGATOR: Washington State Division of Highways.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moderately compact, fine- to medium-grained sand with a trace of silt. [Qal]	0				
	2				
	4		18		
	6				
	8		15		
	10				
	12		17		
	14				
	16		34		
	18				
Alternating thin layers of moderately firm, fine- to medium-grained sand and clayey silt. [Qal]	20				
	22		23		
Very firm, sandy clayey silt with occasional gravel. [Qvt]	24				
	26		12		
	28				
	30		39		
Very compact, silty medium- to coarse-grained sand with occasional gravel. [Qva]	32				
	34				
	36		110		
	38				
	40		200/10"		
T. D. 40'					

NUMBER: 79020

SITE: Duwamish Waterway Pier #5, Highway 509, station 408+26, hole #11-1.

GROUND ELEVATION: 5.3'

INVESTIGATOR: Washington State Division of Highways.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Slightly compact to loose, slightly silty fine-grained sand; occasional fine to medium gravel. [af]	0				
	2		17		
	4				
	6		8		
	8				
	10		3		
Slightly compact to compact, fine-grained sand; trace of silt, occasional 1/4" silt seams. [Qal]	12				
	14				
	16		15		
	18				
	20				
	22		12		
	24				
	26		16		
	28				
	30				
Slightly compact to compact, slightly silty, very fine-grained sand; scattered 1/2" silt seams, wood fragments. [Qal]	32		32		
	34				
	36		31		
	38				
	40				
	42		12		
	44				
	46				
	48		26		
	50				
Dense to compact, fine-grained sand; occasional silt layers and wood fragments. [Qal]	52		19		
	54				
	56		21		
	58		46		
	60				
	62		42		
	64				
	66		26		
	68				
	70				
see next page.	72		44		
	74				
	76		29		
	78				
	80		32		
	82				
	84				
	86		22		
	88				
	90				


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NUMBER: 79020 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Compact, slightly silty fine-grained sand; occasional 1/2" to 5" silt layers. [Qal]	90				
	92				
	94				
	96		32		
	98				
	100				
	102		29		
	104				
	106		29		
	108				
	110				
	112		26		
Compact, fairly clean, fine-grained sand; occasional 1/2" to 2" silt layers and wood fragments. [Qal]	114				
	116		27		
	118				
	120				
	122		34		
	124				
	126		39		
	128				
	130				
	132		31		
	134				
	136		33		
Dense, fairly clean, fine-grained sand. [Qal]	138				
	140		86		
	142				
	144				
	146		64		
	148				
	150				
	152		9		
	154				
	156				
	158		10		
	160				
Soft, very fine sandy silt; trace of organic material. [Qal]	162				
	164		7		
	166				
	168		5		
	170				
	172				
	174				
	176		9		
	178				
	180				
see next page					

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continued on next page

NUMBER: 79020 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Soft, alternating layer of clayey silt and very fine sandy silt; occasional shell fragments. [Qal]	180				
	182				
	184		9		
	186				
	188				
	190		9		
	192				
	194				
	196				
	198		10		
Stiff, silty clay; occasional shell fragments. [Qal]	200				
	202				
	204		17		
	206				
	208				
	210				
	212		13		
	214				
	216				
	218				
	220		15		
	222				
	224				
	226		25		
Stiff, slightly silty clay; trace of organic material, 1/2" layers of silty fine sand. [Qal]	228				
	230				
	232		16		
	234				
	236				
	238		18		
	240				
	242				
	244				
	246		16		
Stiff, clayey, very fine sandy silt. [Qal]	248				
	250				
	252		19		
	254				
Dense, silty to slightly silty fine-grained sand with 2" to 6" layers of slightly silty clay. [Qvr]	256				
	258		75		
	260				
	262		71		
Hard clay; occasional gravel and partings of very fine sand. [Qvr]	264				
	266				
	268		42		
	270				

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NUMBER: 79020 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
see previous page.	270				
	272		68		
	274				
Stiff, silty clay with partings of fine-grained sand. [Qvr]	276		23		
	278				
	280				
	282				
Hard and dense, silt and fine-grained sand in variable 1" to 6" layers. [Qvt]	284		96		
	286				
	288		59		
	290				
Dense, slightly silty to silt fine-grained sand; scattered gravel. [Qvt]	292		88		
	294				
	296				
	298		64		
Very hard, clayey fine sandy silt; scattered gravel. [Qvt]	300				
	302		79		
	304				

T. D. 304'

NUMBER: 79021

SITE: First Avenue South Bridge, Highway 509, Duwamish Waterway, hole #1.

GROUND ELEVATION: 5.53'

INVESTIGATOR: Washington State Division of Highways.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Medium-grained sand. [af]	0 2 4 6 8	▽ =	4/12"		
Medium-grained sand; some gravel and wood fragments. [af]	10 12 14 16 18 20 22 24 26 28 30 32		4 5 25 25 27		
Medium- to coarse-grained sand with some gravel. [Qal]	34 36 38 40 42 44 46 48 50		13 9		
Medium- to fine-grained sand. [Qal]	52 54 56 58 60 62 64 66 68 70 72 74 76 78		14 24 37 40 26 45		
Fine- to medium-grained sand with thin silt layers. [Qal]	80 82 84 86 88		26 45		
Silt with sand seams. [Qal]					
Clean, fine-grained sand with thin silt layers. [Qal]					

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NUMBER: 79021 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
see previous page.	90				
	92		32		
	94				
	96				
	98		21		
Layered, clean fine- to medium-grained sand and sandy silt. [Qal]	100				
	102		22		
	104				
	106		23		
	108				
	110				
	112		37		
	114				
Clean, medium- to fine-grained sand. [Qal]	116				
	118		25		
	120				
	122		34		
	124				
	126				
	128		11		
Alternating layers of clean fine-grained sand and silty fine-grained sand with organic material. [Qal]	130				
	132		33		
	134				
	136		32		
	138				
	140		35		
	142				
	144		39		
	146				
Silty fine-grained sand. [Qal]	148		26		
	150				
	152		32		
	154				
Alternating layers of clean fine-grained sand and silty fine sand with organic material. [Qal]	156		39		
	158		42		
T. D. 158'					

NUMBER: 79022

SITE: First Avenue South Bridge, Highway 509, Duwamish Waterway, hole #6.

GROUND ELEVATION: 1.94'

INVESTIGATOR: Washington State Division of Highways.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose sand. [af]	0 2 4				
Sandy clay. [af]	6 8		38/12"		
Medium- to fine-grained sand; some wood fragments. [Qal]	10 12 14 16 18 20 22		17 11 21		
Clean, medium- to fine-grained sand. [Qal]	24 26 28 30		75/6" 29		
Silty medium- to fine-grained sand. [Qal]	32 34 36 38 40 42		23 24		
Fine sandy silt; some wood fragments. [Qal]	44 46 48 50 52		9 25		
	54 56 58 60 62 64 66 68		16 22 23		
Fine-grained sand and layers of silt. [Qal]	70 72 74 76 78 80 82 84 86		23 21 19 21		
see next page.	88 90		30		

continued on next page

NUMBER: 79022 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Compact, clean, medium- to fine-grained sand with some organic material. [Qal]	90				
	92				
	94		46		
	96				
	98		46		
	100				
	102		27		
	104				
	106		48		
	108				
	110		30		
	112				
	114		26		
	116				
Compact, clean, medium-grained sand. [Qal]	118				
	120		26		
	122				
	124				
Soft, sandy silt; some wood fragments. [Qal]	126		66		
	128				
Soft silt; some wood fragments. [Qal]	130		26		
	132				
Fine-grained sand. [Qal]	134		17		
	136				
	138		15		
	140				
Alternating layers of silt and soft clay. [Qal]	142		14		
	144				
	146				
	148				
	150		13		
	152				
	154				
	156		13		
	158				
	160		8		
	162				
	164				
	166		9		
	168				
	170		11		
	172				
	174				
	176		11		
	178				
	180		12		

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NUMBER: 79022 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
see previous page.	180				
	182				
	184		11		
	186				
	188				
	190		10		
	192				
	194		14		
	196				
	198				
Clay with shells. [Qal]	200		12		
	202				
	204		13		
	206				
	208				
	210		14		
	212				
	214		19		


T. D. 214'

NUMBER: 79025

SITE: Seattle Kingdome

GROUND ELEVATION: 14.1'

INVESTIGATOR: Geolabs, Inc.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Very loose, moist, silty, clayey sand. [af]	0				
	2				
	4		2		
	6		5		
Loose to medium dense, wet, silty, medium- to coarse-grained sand, occasional gravel. [af]	8		18		
	10		20		
	12				
	14		19		
	16		18		
	18		10		
	20				
	22		20		
Very loose to medium dense, wet, clean medium-grained sand. Pieces of gravel. [Qal]	24		2		
	26				
	28		5		
	30				
	32				
	34		9		
	36				
	38		4		
Soft to stiff, wet silt. Sand lens, 1 in. thick.	40				
	42				
	44		5		
	46				
Soft, wet silt. [Qal]	48				
	50				
	52		1		
	54				
Very loose, wet, clayey, silty sand, some gravel.	56				
Silt. [Qal]	58		8		
	60				
Loose, wet, silty medium-grained sand. [Qal]	62				
	64				
	66				
	68		96/0.7'		
Hard, wet silt with 1/2 inch diameter gravel. [Qvt]	70				
	72		86/1.0'		
Very dense, wet, clean medium-grained sand.	74				
	76				
	78		50/0.5'		
	80				
Very dense, wet, slightly silty, coarse- grained sand and gravel to 1 inch in diameter. [Qvt]	82				
	84		50/0.5'		
	86				
	88		80/0.7'		
Medium-grained sand. [Qvt]	90				
Hard silt. [Qvt]	92		68/0.9'		
Lost Sample.	94				
	T.D. 93.5'				

NUMBER: 79026

SITE: Seattle Kingdome

GROUND ELEVATION: 13.9'

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Medium dense, wet, sand with gravel. [af]	0 2 4 6		18 25		
Loose, wet sand. [af]	8 10 12		5 4		
Very loose to loose, wet, silty sand, organic material. [Qal]	14 16 18 20 22		6 4 2 3		
Very soft, wet silt, shells.	24 26 28 30 32 34		4 2		
Loose, wet, silty sand, organic material and shells. [Qal]	36 38 40		2		
Medium-dense to dense, wet sand, gravel layers. [Qvt]	42 44 46 48		22 88/1.0'		
Very dense, wet sand and gravel. [Qvt]	50 52 54 56 58 60 62 64 66 68		120/1.0' 72/1.0' 96/1.0' 108/1.0'		
Very dense, wet, fine- to coarse-grained sand. [Qva]	70 72 74 76 78 80 82 84 86 88 90 92 94 96 98		81/1.0' 100/0.5' 65/1.0' 50/0.5' 57/0.5'		
T.D. 98.5'					

NUMBER: 79027

SITE: Seattle Kingdome

GROUND ELEVATION: 13.7'

INVESTIGATOR: Geolabs, Inc.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose, wet, clean to silty, medium-grained sand. [af]	0				
	2				
	4		4		
	6		5		
	8		1		
Stiff to very stiff, wet silt. [af]	10		3		
	12				
	14		14		
	16		20		
Loose to medium-dense, wet, medium-grained sand, organic material. [Qal]	18				
	20				
	22		8		
	24		10		
Soft to medium-stiff, wet silt.	26				
	28		3		
	30				
	32				
Medium-stiff, wet silt. [Qal]	34		4		
	36				
	38				
	40				
Hard, sandy silt, gravel. [Qvt]	42				
	44		5		
	46		4		
	48				
Very dense, wet, slightly silty, fine- to coarse-grained sand andf sandy gravel to 1/2 inch in diameter. [Qvt]	50				
	52				
	54		50/0.4'		
	56				
Location of boundary uncertain ?	58		50/0.5'		
	60				
	62				
	64		50/0.3'		
Very dense, wet, fine- to medium-grained sand. [Qva]	66				
	68		50/0.5'		
	70				
	72				
	74		50/0.3'		
	76				
	78		69/1.0'		
	80				
	82				
	84		50/0.3'		
	86				
	88		113/1.0'		
	90				
	92		113/1.0'		
	94				
T.D. 94.0'					

NUMBER: 79028

SITE: Seattle Kingdome

GROUND ELEVATION: 13.3'

INVESTIGATOR: Geolabs, Inc.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose, moist, silty medium-grained sand. [af]	0				
	2		5		
	4		15		
	6		9		
	8		7		
Loose, wet, slightly silty, fine- to medium-grained sand, traces of rubbish and shells. Wood fragments. [af]	10				
	12		9		
	14		7		
	16		5		
	18				
	20		4		
	22				
	24		3		
	26				
	28		2		
Very soft to soft, wet silt.	30				
	32				
	34		1		
	36				
Soft, wet silt. [Qal]	38				
	40				
	42				
	44		22		
Hard, sandy silt, gravel. [Qvt]	46				
	48				
	50				
	52				
	54		78/1.0'		
	56				
	58		50/0.4'		
	60				
	62				
	64		50/0.5'		
Very dense, wet, slightly silty, fine- to medium-grained sand.	66				
	68		50/0.5'		
	70				
	72				
	74		50/0.3'		
	76				
	78		78/0.5'		
	80				
	82				
	84		59/0.5'		
Very dense, wet, fine- to medium-grained sand. [Qva]	86				
	88		50/0.5'		
	90				
	92				
	94		50/0.3'		
	96				
	98		50/0.5'		
	100				
	T.D. 100'				

NUMBER: 79029

SITE: Holly Managment, 2621 Second Avenue.

GROUND ELEVATION: 100'

INVESTIGATOR: Hemphill Engineering, 4612 170th Place N.E., Redmond,
Washington 98052.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Fine-grained, gravelly, silty, very fine- to fine-grained sand. [af]	0 2 4 6 8		20 60		
Fine sand. [af]	10 12		60		
Layers of clayey silt and very fine- grained sand. [Qva]	14 16 18 20 22 24 26 28		30 40 40 60		
Clayey silt and very fine-grained sand-- varved. Silt is indurated and shows slickensides. [Qva]	30 32 34 36		45 80		
Fine sand. [Qn]	38		100+		
Silt, silty fine-grained sand with traces of wood. Very fine-grained sandy silt. [Qn]	40 42		100+		
Gravelly sand. [Qn]	44				
Silty, very fine-grained sand. [Qn]	46				
Layers of fine-grained sand, silt, and fine- grained gravelly silt. [Qn]	48 50				
Gravel and sand. [Qn]	52 54 56 58		100+		
Gravelly sand. [Qn]	60 62 64 66 68 70 72 74 76 78		100+		
Silty, sandy gravel. Some gravel greater than 1 inch in diameter. [Qn]	80 82 84 86 88 90 92 94 96 98 100		100+		

NUMBER: 79030

SITE: Federal Building, Seattle Washington.

GROUND ELEVATION: 22.87'

INVESTIGATOR: Shannon and Wilson, log of boring B-9.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose, slightly silty to silty, fine-grained sand; with scattered, medium- to coarse-grained sand, gravel to 1 onch in diameter, brick fragments, and traces of organics. [af]	0				
	2				
	4		3		
	6		2		
	8		6		
Dense to very dense, clean to silty, fine- to coarse-grained sand with scattered gravel to 1 1/2 inch in diameter. [Qvr]	10				
	12		35	4	
	14			3	
	16		52		
	18		38		
	20				
	22		57		
	24		61		
	26				
	28				
Hard, fine-grained sandy clay. [Qvr]	30				
	32				
	34		77		
Hard, fine-grained sandy, silty clay with scattered, medium- to coarse-grained sand, and gravel to 1 inch in diameter. Occasional partings of fine-grained sand. [Qvt]	36				
	38			15	
	40				
	42				
	44		100/5"		
	46				
	48		108		
	50				
	52				
	54		100/4"	12	
Very dense, wet, slightly silty to silty, medium- to coarse-grained sand. [Qvt]	56				
	58		80		
	60				
Very dense, silty fine-grained sand, with scattered coarse-grained sand and gravel to 1/2 inch in diameter. Scattered thin layers of fine grained sandy, clayey silt, organic material. [Qn]	62				
	64		50/6"	18	17-38
	66				
	68		79/6"		
Hard, silty fine-grained sand with scattered medium- to coarse-grained sand, and gravel to 1 inch in diameter. [Qg]	70				
	72				
	74		50/1"		
	76				
Hard, fine-grained sandy, silty clay with scattered, medium- to coarse-grained sand and gravel to 1/2 inch in diameter. [Qg]	78		70/6"		
	80				
	82				
	84		64/6"		
see next page	86				
	88		43		
	90				
	92				

continued on next page

NUMBER: 79030 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Hard clay, slickensides and fractures. [Qg]	90				
	92				
	94		51		
	96				
	98			24	25-84
	100				
Hard, massive clay. [Qg]	102				
	104		44		
	106				
	108		39		
	110				
	112				
	114		48		
	116				
	118		50		
	T.D. 119' — 120				

NUMBER: 79031

SITE: Daon Pacific Building, 720 Olive Way

GROUND ELEVATION: 115'

INVESTIGATOR: Hart, Crowser and Associates Inc., Design Service Building, 1910 Fairview Ave. E., Seattle, Washington, 98102; Boring log B-6, figure A-7 of report.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Dense to loose, damp, silty, gravelly sand with silt pockets: brick and wood debris. [af]	0 2 4 6		12		
	8		3		
Damp, slightly silty, fine-grained sand. [Qva]	10 12 14 16 18 20		7 16		
Dense, damp, slightly silty, very fine and fine-grained sand. [Qva]	22 24 26		20		
Dense, damp, slightly gravelly, fine- to medium-grained sandy silt. [Qva]	28 30		33		
Very stiff, damp, clayey silt and silty clay; occasional fine-grained sand seams and slickensides. [Qva]	32 34 36 38		27 18 19 20		
Hard, moist, gravelly, fine- to coarse-grained sandy, clayey silt. [Qva]	40 42 44 46 48 50 52 54 56		55 36 30 55 35		
Dense, damp, slightly silty, fine-grained sand. [Qg]	58 60		90		
Very dense, damp to moist, gravelly, silt to fine- to medium-grained sand. [Qg]	62 64 66 68 70 72 74 76 78 80 82 84		50/2" 50/5" 50/5" 90/9" 82/11" 50/5" 50/5"		
Very dense, damp to saturated, slightly silty fine-grained sand. [Qg]	86 88 90 92		50/5" 50/5" 50/5"		

T.D. 93'

NUMBER: 79032

SITE: Bank of California Center, 900 4th Ave., Seattle, Pentagram Corporation.

GROUND ELEVATION: 136'

INVESTIGATOR: Dames and Moore

*NOTE: Different standard penetration procedure-- 265' wt w/ 24" drop, 3.5 " dia S.B.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Dense, silty sand with gravel. [af]	0				
	2				
	4				
	6				
	8				
	10				
	12				
	14		20		
	16				
	18				
	20		59		
	22				
	24		39		
Stiff, varved, fissured, silty clay with lenses of silt and fine-grained sand. Slickensides. [Qva]	26				
	28				
	30		53		
	32				
	34		61		
	36				
	38		82		
	40				
	42				
	44		73		
	46				
	48		135		
Very dense, fine-grained sand and silt with lenses of silty sand and occasional gravel. [Qg]	50				
	52		100		
	54				
	56		170/6"		
	58				
	60				
Very dense, fine- to medium-grained sand, silt and gravel. [Qg]	62		180		
	64				
Very dense, coarse-grained sand and gravel. [Qg]	66				
	68				
	70		145/9"		
	72				
	74		255		
Very stiff, fissured, silty clay, occasional gravel. [Qn]	76				
	78		207		
	80				
	82				
	84		220		
	86				
	88		180		
	90				
	92				


continued on next page

NUMBER: 79032 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Very stiff, fissured, silty clay, occasional gravel, [Qn]	90	perched 			
	92		160		
	94				
	96		70		
	98				
	100				
	102		84		
	104				
	106		119		
	108				
Fine- to medium-grained sand. [Qg]	110				
	112		250/5"		
	114				
	116		325/5"		
Very dense, silty sand with gravel and layers of silty, fine-grained sand. [Qg]	118				
	120		300		
	122				
	124		300		
	126				
	128		300		
	T.D. 128'				

NUMBER: 79033

SITE: Sea First Plaza, 800-22 5th Ave.

GROUND ELEVATION: 175'

INVESTIGATOR: Shannon and Wilson, Inc.

*NOTE: Down-hole hammer changed to 240lb at 145'.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Gravel, sand, and brick. [af]	0				
	2				
Very dense, silty sand and sandy silt. [Qva]	4				
	6		52	25	
	8		42	36	
	10				
	12				
	14				
	16				
Very stiff to hard, silty clay with occasional fine-grained sand partings. [Qva]	18		30	38	
	20				
	22				
	24				
	26				
	28				
	30				
	32				
	34				
	36				
Hard, silty clay with occasional partings of fine-grained sand. [Qva]	38		33	38	
	40				
	42				
	44				
	46				
	48				
	50				
	52				
	54				
	56				
	58				
	60				
	62				
	64				
Wet, silty, fine-grained sand. [Qva]	66				
	68		55	22	
	70				
	72				
	74				
	76				
	78		40	18	
	80				
	82				
Alternating layers of very dense, wet, sandy silt; hard, silty clay; and clayey silt with traces of organic material. [Qn]	84				
	86				
	88		95	22	
	90				
	92				

continued on next page


NUMBER: 79033 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
see previous page	90				
	92				
	94				
	96				
Very dense, clean and silty sand, and gravel. [Qg]	98		50/1"	6	
	100				
	102				
	104				
	106				
	108				
	110				
	112				
	114				
	116				
Hard, clayey silt, occasional organic material. [Qn]	118				
	120				
	122		50/3"	24	
	124				
	126				
	128				
	130				
	132		100/5"	22	
Very dense, wet, clean to silty sand. [Qn]	134				
	136				
	138				
	140				
Alternating layers of very dense, sandy silt and hard, clayey silt with occasional organic material. [Qn]	142				
	144				
	146		50/3"	24	
	148				
	150				
	152				
	154				
	156				
	158				
	160				
Very dense sand. [Qn]	162				
	164				
	166				
	168				
	170				
	172				
	174				
	176		50/3"	20	
	178				
	180				
	182				


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NUMBER: 79033 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Very dense sand. [Qn]	180				
	182				
	184				
	186				
	188				
	190				
	192				
	194				
	196				
	198				
Alternating layers of very dense, sandy silt and hard clayey silt. Peat and wood at 199'. [Qn]	200				
	202				
	204				
	206				
	208				
	210				
	212				
	214				
	216				
	218				
Very dense, silty sand and sandy silt, occasional organic material. [Qn]	220				
	222		100/6"	23	
	224				
	226				
	228				
	230				
	232				
	234				
	236				
	238		40/2"	16	
Very dense sand and gravel. [Qg]	240				
	242				
	244				
	246				
	248				
	250				
T.D. 251.2'					

NUMBER: 79034

SITE: One Union Center, 600 University Street

GROUND ELEVATION: 169.8"

INVESTIGATOR: Shannon and Wilson, Inc., log of boring AB-101.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Fill: Dense, silty, sandy, gravel; pockets of sand, clay, and wood fragments from 6 - 8 feet.	0				
	2				
	4				
	6		60	19	
Vashon Advance Outwash Complex: Hard, sandy, silty clay; occasional organics.	8				
	10				
	12		40		
	14		10	37	
	16		35	40	
	18				
	20		25	39	
	22				
	24		26	38	
	26		22	25	
	28				
	30				
Stiff to hard, silty clay; occasionally laminated and with partings of silty fine-grained sand, trace of slickensides.	32		25	43	28-50
	34				
	36		25	34	
	38			30	22-42
	40				
	42		65	41	
	44				
	46		80	24	
	48				
Very dense, silty fine-grained sand; occasionally clayey. Water bearing.	50				
	52		56	18	
	54				
	56		75	17	
	58		50/6"	16	
	60				
	62				
	64		50/5"		
	66				
	68		55	18	
	70				
Very dense, silty, clayey, fine- to medium-grained sand; trace of organics and occasional silty and gravelly zones.	72				
	74		77	12	
	76				
	78				
	80		80	21	
	82				
	84		50/5"		
	86				
	88				
	90			33	30-67
	92				

see next page

continued on next page

NUMBER: 79034 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Hard, silty clay; trace of slickensides and occasional silt lenses.	90				
	92				
	94		35	36	
	96				
	98				
	100		37	33	
	102				
	104			32	24-60
	106				
	108				
	110		37		
	112				
	114		55-79	35	
	116				
Very dense, silty, gravelly, fine- to coarse-grained sand.	118				
	120				
	122		90		
	124		50/6"	11	
	126				
	128				
	130		50/6"	17	
	132				
	134		50/3"		
	136				
	138				
	140		50/6"	23	
	142				
	144		50/4"	8	
	146				
	148				
	150				
	152				
	154		50/5"	9	
	156				
	158				
	160		50/1"		
	162				
	164				
	166		50/2"	12	
	168				
Hard, silty clay; trace of fine- to coarse-grained sand, slightly laminated and shows slickensides.	170				
	172				
	174			29	
	176		50/11"		
	178				
	180				
	182				

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continued on next page

NUMBER: 79034 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
see previous page	180				
	182				
	184			19	
	186				
	188				
Very dense, clean to slightly silty, fine- to medium-grained sand; trace of gravel.	190				
	192				
	194		50/5"		
	196				
	198				
	200				
	202				
	204		50/0"		
	206				
	208				
Very dense, silty, gravelly, fine- to coarse-grained sand.	210				
	212				
	214		50/6"	22	
	216				
	218				
	220				
	222				
	224				
	226				
	228				
	230		50/3"	13	
	232				
	234				
	236				
Very dense, silty sand; trace of fine gravel.	238				
	240		50/2"	15	
	242				
	244				
	246				
	248				
	250		60/6"		
	T.D. 250'				

NUMBER: 79035

SITE: One Union Center, 600 University Street.

GROUND ELEVATION: 164.8'

INVESTIGATOR: Shannon and Wilson, Inc., log of boring AB-102.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Dense, silty, gravelly, fine- to medium-grained sand; concrete fragments from 1 to 3'. [af]	0				
	2				
	4				
Medium dense to dense, clayey, silty sand. [Qva]	6		45	12	
	8		15	26	
	10			16	
	12		60		
	14		50/5"	12	
Hard, sandy, silty clay; occasional coarse-grained sand, gravel, and organics. [Qva]	16		42	16	
	18		32	18	
	20			16	19-36
	22		65	16	
	24		48	16	
Stiff to hard, silty clay; occasional fractures, laminations, slickensides, and fine-grained sand partings. [Qva]	26			36	
	28		33	28	
	30	9/19/78			
	32		65	18	
	34		57	22	
	36				
	38		60	17	
	40				
	42				
	44		50/5.5"	29	
	46				
	48		50/6"	10	
	50				
Very dense, silty, clayey, fine- to coarse-grained sand; scattered gravel and occasional traces of organics. [Qg]	52				
	54		70	14	
	56				
	58		50/4"	14	
	60				
	62				
	64		84	12	
	66				
	68		80	11	
	70	7/19/78			
	72		65	13	
	74				
	76				
	78		50/5"		
	80				
Very dense, silty fine-grained sand. [Qg]	82				
	84		50/6"	23	
	86				
	88		30	34	
	90	6/26/78			
Very stiff to hard, silty clay; occasional laminations, fractures, slickensides, and partings of fine-grained sand. [Qg]	92		40	34	28-60
	94			35	
	96				
	98		36	33	
	100		32	36	

T.D. 101.5'

NUMBER: 79036

SITE: One Union Center, 600 University Street, Seattle Washington.

GROUND ELEVATION: 169.7'

INVESTIGATOR: Shannon and Wilson, Inc., log of boring AB-103.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Dense, silty, gravelly, fine- to coarse-grained sand. [af]	0 2 4 6		27 24	8 11	
Very stiff to hard, sandy, clayey silt; occasional carbonaceous stains. [Qva]	8 10 12 14 16		17 26 17 45	18 23 34 21	
Very stiff to hard, silty clay; scattered partings and traces of slickensides. [Qva]	18 20 22		22 21	40 35	
Dense to very dense, silty, fine- to medium-grained sand; occasional lenses of clayey silt and fine-grained gravel. [Qva]	24 26 28 30	6/26/78 11:19/19/78	61 45	14 24	28-35
Very stiff, silty clay; laminated, numerous layers and partings. [Qva]	32 34		23		
Dense, slightly silty to silty, fine-grained sand. [Qva]	36 38 40		27 50	31 24	
	42				
	T.D. 41.5'				

NUMBER: 79037

SITE: West Seattle Freeway Bridge Replacement, S.W. Spokane Street.

GROUND ELEVATION: 4'

INVESTIGATOR: Shannon and Wilson, Inc.; log of boring WS-2

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Dense, slightly silty, gravelly, fine- to coarse-grained sand; scattered organic material and debris. [af]	0				
	2		17	12	
	4				
	6		11	9	
	8				
	10		29	23	
Dense, clean, fine- to coarse-grained sandy gravel. [af]	12		26		
	14				
	16		20	26	
	18				
	20				
Dense, slightly silty, fine- to medium-grained sand; scattered organic material, shell fragments and thin silty sand and fine-grained sandy silt layers. [af]	22				
	24		23	29	
	26		30	25	
	28				
	30		20	29	
	32		14	30	
	34		34	29	
	36		31	29	
	38		40	30	
	40				
	42				
	44				
	46		45	29	
	48				
	50				
	52		43	29	
	54				
	56		74	27	
	58				
Interbedded, hard, silty clay with a trace of sand; fine-grained sandy, clayey silt; clayey silt with a trace of sand; and fine- to medium-grained sandy, silty clay. [Qvr]	60				
	62		83	27	
	64				
	66		57	26	
	68				
	70				
	72		75	25	
	74				
	76			25	
	78				
	80				
	82		96/10"	28	
	84				
	86		51/6"		
	88				
	90		53/6"	30	
	92				

continued on next page

NUMBER: 79037 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
see previous page	90				
	92				
	94		53/3"	24	
	96				
	98				
	100		50/5"	22	
	102				
	104				
	106		50/4"	23	
	108				
	110		51/4"	20	
	112				
Very dense, silty fine-grained sand that grades to fine-grained sandy silt with depth; scattered thin, clayey silt layers. [Qvt]	114				
	116		50/5"	19	
	118				
	120				
	122			20	19-31
	124				
	126		50/3"	16	
	128				
	130		51/3"		
	132				
	134				
	136		50/3"	19	
	138				
	140		50/5"	23	
	142				
	144				
	146		52/4"	19	
	148				
	150		51/2"		
	152				
	154				
	156		50/3"	20	
	158				
	160		52/2"	20	
	162				
	164				
	166				
	168				
	170		53/3"	23	
T.D. 170.2'					

NUMBER: 79038

SITE: West Seattle Freeway Bridge Replacement, S.W. Spokane Street.

GROUND ELEVATION: 3.5'

INVESTIGATOR: Shannon and Wilson, Inc., log of boring WS-4.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose to medium loose, slightly silty, fine- to medium-grained sand, trace of gravel; scattered organic material and very thin silt and clayey silt layers. [af]	0				
	2				
	4		4	11	
	6		6	9	
	8		11	25	
	10				
	12		19	22	
	14		20	28	
	16		12	29	
	18		14	29	
	20				
	22		17	25	
	24		29	26	
	26		58 (rock)	21	
Soft to stiff, slightly clayey, fine-grained sandy silt; scattered shell and wood fragments. [Qal]	28		22	23	
	30				
	32		20	25	
	34		4	27	
	36			29	
	38		12	29	
	40				
	42		7	31	
Medium dense to dense, silty fine-grained sand; scattered to numerous shell fragments and wood debris. [Qal]	44				
	46		6	25	
	48				
	50				
	52		35	28	
	54				
Medium stiff to stiff, slightly clayey silt; scattered thin silty clay layers and wood debris, and scattered to numerous shell fragments. [Qal]	56		28	26	
	58				
	60				
	62		6	32	
	64				
	66		12	27	
	68				
	70				
	72		11	26	
	74				
Hard, clayey, fine-grained sandy silt, scattered layers of silty clay and gravelly, silty, clayey fine- to medium-grained sand.; scattered shell fragments. [Qvr]	76			27	
	78				
	80				
	82		48	28	
	84				
	86		31	29	
	88				
	90				
	92				

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continued on next page

NUMBER: 79038 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
see previous page	90				
	92		71	29	
	94				
	96		82	33	
	98				
	100		50/6"	22	
Hard, fine- to coarse-grained sandy, silty clay that grades downward to silt; scattered clayey silt and sandy silt layers. [Qvr]	102				
	104				
	106		33	25	19-29
	108				
	110				
	112		55	23	
	114				
	116		60	23	
	118				
	120			22	25-27
	122			21	
	124				
Very dense, fine-grained sandy silt; scattered slightly silty, fine- to medium-grained sand layers, shell fragments and organic material. [Qvr]	126		50/6"	26	
	128				
	130		50/5"	23	
	132				
	134				
	136		50/5"	21	
	138				
	140		50/4"	21	
	142				
	144		52/3"	21	
Hard, silty clay; trace of sand, scattered, very thin silty layers and slickensides. [Qvr]	146				
	148				
	150		52/4"	18	
	152				
	154		53/5"	22	
	156				
	158				
	160				
	162		97	29	
	164				
Hard, silty clay; scattered sand, gravel and slickensides. [Qvr]	166		54/6"	27	25-56
	168				
	170		53/6"	27	
	172				
	174				
	176			21	
	178				
	180		60/5"	29	
T.D. 180.5'					

NUMBER: 79039

SITE: West Seattle Freeway Bridge Replacement, S.W. Spokane Street.

GROUND ELEVATION: 5.5'

INVESTIGATOR: Shannon and Wilson, Inc., log of boring WS-10.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose to medium dense, slightly silty, fine- to medium-grained sand, a trace of gravel; scattered debris and organic material. [af]	0	4/24/80, 8/26/80 ill ▽			
	2				
	4		64	11	
	6			6	
	8			23	
	10		14	10	
	12		5	29	
	14		16	30	
	16		14	28	
	18		10	35	
Medium dense, slightly silty, fine- to medium-grained sand; scattered organic material. [Qal]	20	4/24/80, 8/26/80 ill ▽			
	22		11	32	
	24		12	33	
	26		11	30	
	28		15	31	
	30				
	32		38	23	
	34		27	22	
	36		33	22	
	38		44	26	
Similar to above except medium dense to dense; scattered very thin fine-grained sandy silt layers. [Qal]	40	4/24/80, 8/26/80 ill ▽			
	42		25	32	
	44				
	46		61	21	
	48				
	50				
	52		24	35	
	54				
	56		14	49	
	58				
	60			35	
	62			35	
	64				
	66		40	30	
	68				
	70				
	72		34	35	
	74				
	76		30	29	
	78				
	80		30	29	
	82				
	84				
	86		49	22	
	88				
	90				
	92				

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NUMBER: 79039 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
see previous page	90				
	92		35	24	
	94				
	96		38	22	
	98				
	100				
	102		38	21	
	104				
	106		32	19	
	108				
Dense to very dense, silty, fine-grained sand; scattered organic material and layers of clayey fine-grained sandy silt and fine- grained sandy, clayey silt layers. [Qal]	110				
	112		28	33	
	114				
	116		22	34	
	118				
	120				
	122		36	31	
	124				
	126		49	29	
	128				
	130				
	132		43	33	
	134				
	136		51	30	
	138				
Very stiff, clayey, fine-grained sandy silt. [Qal]	140				
	142			33	
	144				
	146		19	34	
	148				
	150				
	152		57	24	
	154				
	156		56	36	
	158				
Medium stiff to stiff, clayey silt, trace of sand. [Qal]	160				
	162		59	34	
	164			31	26-34
	166			35	
	168				
	170				
	172			11	
	174				
	176		23	28	
	178				
see next page	180				
	182				

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continued on next page

NUMBER: 79039 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Dense, silty fine-grained sand; scattered gravel, organic material and very thin clayey silt layers. [Qal]	180				
	182		44	24	
	184				
	186		67	29	
	188				
	190				
	192		63/6"		
	194				
	196		89/11"	17	
	198				
Hard, fine- to medium-grained sandy, silty, clay, trace of gravel; layers of sandy, clayey silt, and silty sand. [Qvr]	200				
	202		88	22	
	204				
	206		53/6"	26	
	208				
	210				
	212		52/6"	23	
	214			26	
	216				
	218				
	220		53/6"	21	
	222				
	224		50/1"		
	226				
Very dense, gravelly, clayey, silty, fine- to medium-grained sand. [Qvt]	228				
	230		56/6"		
	232				
	234		50/3"	30	
	236				
	238				
	240		50/0"		
	242				
	244		52/1"	14	
	246				
	248				
	250		50/5"	15	
T.D. 250.4'					

NUMBER: 79040

SITE: West Seattle Freeway Bridge Replacement, S.W. Spokane Street.

GROUND ELEVATION: 8'

INVESTIGATOR: Shannon and Wilson, Inc., log of boring WS-15.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Soft, fine- to medium-grained sandy, silty clay; scattered gravel, organic material and debris. [af]	0	 3/26/80, 4/24/80			
	2				
	4		4		
	6		3	24	
	8		17	8	
	10				
Medium dense, slightly silty, fine- to medium-grained sand; scattered gravel and organic material. [af]	12		33	8	
	14		17	28	
	16		22	28	
	18		8	43	
	20			27	
	22			30	
	24		26	25	
	26		15	25	
	28		13	29	
	30				
	32		12	30	
	34		34	26	
Similar to above except dense; scattered thin clayey silt and sandy silt layers. [Qal]	36		30	25	
	38		34	23	
	40				
	42		27	29	
	44				
	46		30	27	
	48				
	50			37	
	52			40	
	54				
	56		37	55	
	58				
Interbedded, medium dense, silty, fine-grained sand and stiff to very stiff, slightly clayey, fine-grained sandy silt; scattered organic material. [Qal]	60				
	62		33	24	
	64				
	66		16	33	
	68				
	70				
	72		10	39	
	74				
	76			33	
	78				
	80				
	82		13	35	
	84				
	86		25	33	
	88				
	90				
	92				

continued on next page

NUMBER: 79040 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Interbedded, medium dense, silty, fine-grained sand and stiff to very stiff, slightly clayey, fine-grained sandy silt; scattered organic material. [Qal]	90				
	92		27	32	
	94				
	96		24	30	
	98				
	100				
	102		32	45	
	104				
	106		28	34	
	108				
	110				
	112		48	29	
	114				
	116			33	
	118				
	120				
Stiff to hard, slightly clayey to clayey, fine-grained sandy silt; scattered very thin silty sand layers, organic material and wood fragments. [Qal]	122		14	35	
	124				
	126		23	31	
	128				
	130				
	132		12	37	
	134				
	136		35	28	
Dense to very dense, silty fine-grained sand; numerous hard, clayey, fine-grained sandy silty layers below 170', and scattered organic material and shell fragments. [Qal]	138				
	140				
	142		19	34	
	144				
	146			27	
	148				
	150				
	152		59	27	
	154				
	156		65	28	
	158				
	160				
	162		47	26	
	164		45	45	
	166		47		
	168				
	170				
	172		79	35	
	174				
	176		49	31	
	178				
	180				
	182				


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NUMBER: 79040 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
see previous page	180				
	182		53	33	
	184				
Stiff, fine-grained sandy, clayey silt. [Qal]	186		15	32	
	188				
	190		31/2"	13	
Very dense, gravelly, clayey, silty, fine- to medium-grained sand. [Qvr]	192				
	194				
	196			15	15-28
	198				
	200		51/5"	13	
	202				
	204		53/5"		
	206				
	208				
Hard, fine- to medium-grained, sandy, silty clay, trace of gravel. [Qvr]	210		52/3"	12	
	212				
	214		52/6"		
	216				
	218				
	220		51/3"		
	222				
	224				
	226				
	228			19	
	230		53/6"	17	
T.D. 230.5'					

NUMBER: 79041

SITE: West Seattle Bridge Replacement, S.W. Spokane Street.

GROUND ELEVATION: 7.5'

INVESTIGATOR: Shannon and Wilson, Inc., log of boring WS-16.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Medium dense, slightly silty, fine- to medium-grained sand; scattered gravel, organic material, shell fragments, and silty, fine-grained sand layers. [af]	0				
	2				
	4		16	10	
	6		8	9	
	8		11	7	
	10				
	12		15	9	
	14		15	19	
	16		11	37	
	18			28	
Medium dense, slightly silty, fine- to medium-grained sand; scattered gravel, organic material, shell fragments, and silty, fine-grained sand layers. [Qal]	20			33	
	22			43	
	24		12	28	
	26		12	35	
	28		31	26	
	30				
	32		20	31	
	34		27	25	
	36		25	24	
	38		28	24	
	40				
	42		22	37	
	44				
	46		27	25	
	48				
	50				
	52		16	34	
	54				
	56		49	24	
	58				
	60				
	62		23	40	
	64				
	66		24	36	
Stiff to very stiff, slightly clayey, fine-grained sandy silt; scattered organic material and very thin clayey silt and silty sand layers. [Qal]	68				
	70				
	72		14	37	
	74				
	76			37	
	78				
	80				
	82		22	36	
see next page.	84				
	86		47	30	
	88				
	90				
	92				

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continued on next page

NUMBER: 79041 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Interbedded, dense to very dense, silty fine-grained sand and slightly silty fine-to medium-grained sand; scattered organic material, shell fragments, and very thin clayey silty layers. [Qal]	90				
	92		24	33	
	94				
	96		30	37	
	98				
	100				
	102		78	28	
	104				
	106		39	33	
	108				
Very stiff, slightly clayey, fine-grained sandy silt. [Qal]	110				
	112		38	28	
	114				
	116		20	36	
Interbedded, dense to very dense, silty fine-grained sand and slightly silty fine-to medium-grained sand; scattered organic material, shell fragments, and very thin clayey silty layers. [Qal]	118				
	120			28	
	122			38	
	124				
	126		35	37	
	128				
	130				
	132		54	27	
	134				
	136		46	25	
Hard, slightly clayey, fine-grained sandy silt; scattered wood fragments and very thin silty sand layers. [Qal]	138				
	140				
	142		48	34	
	144				
Very stiff to stiff, fine-grained sandy, clayey silt; scattered organic material, shell and wood fragments. [Qal]	146		25	38	
	148				
	150				
	152		12	36	
Dense, silty fine-grained sand; scattered organic material and very thin clayey silt layers. [Qal]	154				
	156		51	28	
	158				
	160				
	162		37	32	
	164				
	166		51	29	
	168				
	170				
	172			27	
Hard, clayey, fine-grained sandy silt. [Qal]	174				
	176		47	40	
	178				
	180				

see next page.

continued on next page

NUMBER: 79041 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Dense, silty fine-grained sand; scattered organic material and very thin clayey silt layers. [Qal]	180				
	182		62	32	
	184				
	186		54/6"	25	
	188				
	190				
	192		52/5"	44	
	194				
	196		50/6"	31	
Hard, slightly clayey, fine-grained sandy silt; scattered organic material and shell fragments. [Qal]	198				
	200				
	202		64	29	
	204				
	206		47	31	
	208				
	210				
	212			29	
	214				
Hard, gravelly, fine- to medium-grained sandy, silty clay. [Qvr]	216		44	30	
	218				
	220		53/6"	8	
	222				
	224		53/3"	11	
	226				
	228				
	230		53/5"	12	
	232				
	234		52/3"	15	
	236				
	238				
	240		50/2"	12	
	242				
	244				
	246			13	
	248				
	250		50/4"	17	
T.D.250.9'					

NUMBER: 79042

SITE: West Seattle Freeway Bridge Replacement, S.W. Spokane Street.

GROUND ELEVATION: 5'

INVESTIGATOR: Shannon and Wilson, Inc., log of boring WS-18.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose, silty, fine- to medium-grained sand; scattered gravel, organic material and shell fragments. [af]	0				
	2				
	4		7	15	
	6		12	6	
Loose to medium dense, slightly silty, fine- to medium-grained sand; scattered organic material, wood fragments, and very thin silty sand, fine-grained sandy silt and clayey silt layers. [Qal]	8		12	12	
	10				
	12		13	19	
	14		7	34	
Medium stiff, slightly clayey silt. [Qal]	16		5	57	
	18				
	20			36	
	22			41	
Loose to medium dense, slightly silty, fine- to medium-grained sand, scattered organic material, wood fragments, and very thin silty sand and fine-grained sandy silt layers. [Qal]	24		6	24	
	26		17	28	
	28		39	23	
	30				
Medium dense to dense, silty fine-grained sand; scattered organic material, wood fragments, and very thin silty sand, fine-grained sandy silt and clayey silt layers. [Qal]	32		28	45	
	34		26	25	
	36		25	24	
	38		48	21	
	40				
	42		21	32	
	44				
	46		14	37	
	48				
	50				
	52		76	25	
	54				
Medium dense to dense, silty fine-grained sand; scattered organic material and very thin to thin layers of slightly silty sand, sandy silt, and clayey sandy silt. [Qal]	56		30	24	
	58				
	60				
	62		34	33	
Very stiff, slightly clayey, fine-grained sandy silt; thin interbeds of silty sand. [Qal]	64				
	66		19	34	
	68				
	70			37	
	72			37	
	74			31	
	76		26	33	
	78				
Medium dense to dense, silty fine-grained sand; scattered organic material and very thin to thin layers of slightly silty sand, sandy silt, and clayey sandy silt. [Qal]	80				
	82		41	30	
	84				
	86		18	35	
	88				
	90				
	92				

continued on next page

NUMBER: 79042 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
see previous page.	90				
	92		19	33	
	94				
	96		28	32	
Stiff, slightly clayey, fine-grained sandy silt. [Qal]	98				
	100				
	102		15	38	
	104				
Medium dense to dense, silty fine-grained sand; scattered organic material and very thin to thin layers of slightly silty sand, sandy silt, and clayey sandy silt. [Qal]	106		26	38	
	108				
	110				
	112		63	35	
	114				
	116		25	30	
	118				
	120				
	122		26	36	
	124			38	
	126			43	
	128			41	
	130				
	132		23	41	
	134				
	136		41	34	
Stiff to very stiff, slightly clayey, fine- grained sandy silt. [Qal]	138				
	140				
	142		10/6"	39	
	144				
	146		19	38	
	148				
Very dense, slightly silty, fine- to medium- grained sand; scattered organic material and very thin sandy clayey silt layers. [Qal]	150				
	152		14	33	
	154				
	156			27	
	158				
	160				
	162		72/11"	26	
	164				
Soft to stiff, slightly clayey, fine-grained sandy silt. [Qal]	166		85	24	
	168				
	170				
	172		10/6"	37	
see next page.	174				
	176		37	37	
	178				
	180				
	182				

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continued on next page

NUMBER: 79042 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Medium dense to very dense, silty fine-grained sand; scattered organic material and very thin to thin fine-grained sandy and slightly clayey silt layers. [Qal]	180				
	182		24	35	
	184				
	186		77	30	
	188				
	190				
	192		51	32	
	194				
	196			29	
	198				
	200				
	202		50	34	
	204				
	206		42	29	
	208				
	210				
	212		57	25	
	214				
	216		58	30	
	218				
Hard, slightly clayey, fine-grained sandy silt; scattered organic material, shell fragments and very thin silty sand layers. [Qvr]	220				
	222		40	32	
	224				
	226		0/2.0'		
	228				
	230				
	232		38	31	
	234				
	236		34	36	
	238				
Interbedded, very soft to very stiff, silty clay and clayey, fine-grained sandy silt; scattered to numerous shell fragments and organic material. [Qvt]	240				
	242		21	32	
	244				
	246		10/6"	36	
	248				
	250				
	252		23	22	
	254				
	256		0/1.5'	49	29-59
	258				
	260				
	262			32	
	264				
	266		0/1.5'	30	
	268				
see next page.	270				
	272				

continued on next page

NUMBER: 79042 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Very stiff, fine- to medium-grained sandy, silty clay; scattered shell fragments and hard clay fragments. [Qvt]	270				
	272			29	
	274				
	276		37	26	
	278				
Hard, silty clay; scattered very thin sand layers. [Qvt]	280				
	282		78	20	
	284		60/0"		
	286				

T.D. 285'

NUMBER: 79043

SITE: West Seattle Freeway Bridge Replacement, S.W. Spokane Street.

GROUND ELEVATION: 3.5'

INVESTIGATOR: Shannon and Wilson, Inc., log of boring WS-21.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Very dense, slightly silty, fine- to medium-grained sand. [af]	0				
	2				
	4		50/6"	14	
Medium dense to loose, slightly clayey, silty, gravelly sand. [af]	6		13	21	
	8		7		
	10		2/6"	49	
Very soft to stiff, clayey silt; trace of sand and scattered organic material. [Qal]	12		1/6"	42	
	14		0/1'	34	
	16			54	
Very loose, slightly silty to silty, fine- to medium-grained sand; organic material. [Qal]	18		2	37	
	20				
Loose to medium dense, slightly silty, fine- to medium-grained sand; scattered organic material. [Qal]	22		17	39	
	24		7	35	
	26		26	35	
	28		5	37	
	30				
	32		32	26	
	34		38	31	
	36		33	27	
	38		49	23	
	40				
	42		52	27	
Dense to very dense, slightly silty, fine- to medium-grained sand; scattered organic material. [Qal]	44				
	46		58	39	
	48				
	50				
	52		47	26	
	54				
	56		53	28	
	58				
	60				
	62		50	25	
	64				
Stiff, fine sandy, clayey silt that grades to slightly sandy silt with depth; scattered organic material. [Qal]	66		24	37	27-34
	68				
	70				
	72			36	
	74				
	76		8	38	
	78				
Medium dense, silty fine sand; scattered organic material and very thin slightly clayey, fine sandy silt layers. [Qal]	80				
	82		15	34	
	84				
	86		15	39	
	88				
see next page.	90				
	92				

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continued on next page

NUMBER: 79043 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Medium stiff, clayey, fine sandy silt; scattered organic material and thin silty sand layers. [Qal]	90				
	92		8	39	
	94				
	96		26	35	
Very stiff, clayey, fine sandy silt; scattered organic material and very thin silty sand layers. [Qal]	98				
	100			28	
	102				
	104				
	106		85	22	
	108				
	110				
	112		65	25	
	114				
	116		51	25	
	118				
	120				
Interbedded: very dense, slightly silty to silty fine sand and very stiff to hard, clayey fine sandy silt; scattered organic material. [Qal]	122		51/6"	22	
	124				
	126		55	33	
	128				
	130				
	132		39	27	
	134				
	136		32	30	
	138				
	140				
	142		51	28	
	144				
	146		75	34	
	148				
	150				
	152		15	36	
Stiff to soft, clayey fine sandy silt; scattered organic material and shell fragments. [Qal]	154				
	156			37	
	158				
	160				
Very dense, slightly silty fine sand; scattered organic material, shell fragments, and very thin clayey sandy silt layers. [Qvr]	162		3/6"	36	
	164				
	166		52/5"	28	
	168				
	170				
	172		50	27	
	174				
	176		52/4"	27	
see next page.	178				
	180				
	182				

↓
continued on next page

NUMBER: 79043 (cont.)

SITE:

GROUND ELEVATION:

INVESTIGATOR:

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Very dense, slightly silty, gravelly, fine- to coarse-grained sand; scattered shell fragments. [Qvr]	180				
	182		55/5"	28	
	184				
	186		50/6"		
	188				
Hard, fine to coarse, gravelly, silty clay. [Qvt]	190		55/3"	13	
	192				
	194				
	196			13	
	198			17	
	200		60/3"	15	
	T. D. 200.3'				

NUMBER: 80001

SITE: 16' NW of centerline Sunset Ave SW, 80' S of centerline SW Walker St.

GROUND ELEVATION: 250'

INVESTIGATOR: Seattle Engineering Department; B-05812.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Firm to compact; clean, fine- to medium-grained sand, and silty sand layers. [Qva]	0 2 4		19		
Firm to compact, clean fine- to medium-grained sand. [Qva]	6 8		21		
Firm to compact; clean, fine- to medium-grained sand, traces of layered silty sand. [Qva]	10 12 14		34		
Firm to compact; clean, medium-grained sand, silty sand at bottom. [Qva]	16 18 20		14		
Firm to compact; clean, fine- to medium-grained sand. [Qva]	22 24 26 28 30		18		
	T.D. 30'		37		

NUMBER: 80002

SITE: Walnut Avenue SW and Lander, Seattle.

GROUND ELEVATION: 325'

INVESTIGATOR: Seattle Engineering Department; B-05731.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose sand. [Qva]	0 2 4		12		
Compact sand; silt layers and trace of gravel. [Qva]	6 8		42		
Very compact sand and gravel. [Qva]	10 12 14 16		53		
	T. D. 15'				

NUMBER: 80003

SITE: 25' W of centerline S. Admiril Way, 85' W. of centerlin 59 th SW.

GROUND ELEVATION: 50'

INVESTIGATOR: Seattle Engineering Department; B05750.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose sand with silt, gravel, and trace of organic material. [Qva]	0 2 4		7		
Loose sand with silt, gravel, and trace of organic material. [Qva]	6 8 10		4		
Loose sand with silt, clay, and trace of gravel. [Qva]	12 14 16		8		
Firm sand and silty clay with gravel. [Qva]	18 20		16		
T. D. 20'					

NUMBER: 80004

SITE: 170' W. of centerline 53 rd Avenue SW, 15' NE of centerline SW Manning.

GROUND ELEVATION: 337'

INVESTIGATOR: Seattle Engineering Department; B-05748.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Very stiff, silt with clay and trace of sand. [Qvr]	0 2 4		51		
Very compact, gravel, sand and trace of silt. [Qvt]	6 8 10		58		
very compact, sand and silt; fine gravel. [Qvt]	12 14 16		73		
T. D. 15'					

NUMBER: 80005

SITE: 25' N. of centerline Beach Dr. SW, 20' S. of centerline SW Carroll St..

GROUND ELEVATION: 25'

INVESTIGATOR: Seattle Engineering Department; B-05748.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose, medium-grained sand; traces of silt. [Qal]	0 2 4		8		
Loose, medium-grained sand; traces of silt. [Qal]	6 8		7		
Firm, well-graded sand, fine gravel and traces of silt. [Qg]	10 12 14		18		
Very compact, gravel, sand, and traces of silt. [Qg]	16 18 20		50/6"		
T. D. 20'					

NUMBER: 80006

SITE: SW Dakota and 46 th Avenue SW.

GROUND ELEVATION: 312'

INVESTIGATOR: Seattle Engineering Department; B-05784.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose silty sand. [Qva]	0 2 4		2		
Firm fine-grained sand with clay and silt layers. [Qva]	6 8		15		
Compact fine-grained sand, fractured gravel and silt. [Qva]	10 12 14		61 (rock ?)		
Compact fine-grained sand. [Qva]	16 18 20		36		
T. D. 20'					

NUMBER: 80007

SITE: 44 th Avenue SW and SW Oregon.

GROUND ELEVATION: 325'

INVESTIGATOR: Seattle Engineering Department; B-05778.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Firm, silty fine-grained sand. [Qva]	0 2 4		13		
Firm, silty fine-grained sand. [Qva]	6 8 10		25		
Very compact sand. [Qva]	12 14 16		59		
T. D. 15'					

NUMBER: 80008

SITE: 12' S. of centerline Brandon, 280' W. of centerline 18 th Street.

GROUND ELEVATION: 225'

INVESTIGATOR: Seattle Engineering Department; B-06225.



Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Medium dense silt to very fine grained sand. [Qvr]	0 2 4		9		
Stiff clayey silt; occasional gravel. [Qvr]	6 8 10		20		
Very stiff silt and gravel. [Qvt]	12 14 16		50/5"		
T. D. 14.5'					

NUMBER: 80009

SITE: Harbor Avenue SW.

GROUND ELEVATION: 25'

INVESTIGATOR: Seattle Engineering Department; B-06292.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose sand; 3" thick silt layer. [af]	0 2 4	 1/6/71	9		
Loose sand; traces of gravel. [Qal]	6 8 10		10		
Firm fine-grained sand. [Qal]	12 14	 12/15/70	11		
Loose fine-grained sand, silty sand. [Qal]	16 18 20				
Very soft, silty, sandy clay; clayey, sandy silt; and sandy silt. [Qal]	22 24 26		2		
Loose sandy gravel; wood fibers. [Qg]	28 30 32		10		
	T. D. 31'				

NUMBER: 80010

SITE: Harbor Avenue SW.

GROUND ELEVATION: 25'

INVESTIGATOR: Seattle Engineering Department; B-06292.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose fine-grained sand and gravel. [af]	0 2 4	 12/15/70 & 1/6/71	8		
Loose fine-grained sand. [Qal]	6 8 10		9		
Firm fine-grained sand. [Qal]	12 14 16 18 20		17		
	T. D. 19'				

NUMBER: 80011

SITE: Harbor Avenue SW.

GROUND ELEVATION: 50'

INVESTIGATOR: Seattle Engineering Department; B-06293.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose, very fine to fine-grained sand. [af]	0 2 4	12/15/70 	2		
Loose, slightly silty fine-grained sand; wood and clay lumps. [af]	6 8 10		6		
Loose, silty fine-grained sand. [af]	12 14		1		
Firm silt; rock chips. [Qn]	16 18 20		13		
Medium dense clayey silt; clay lumps. [Qn]	22 24 26		9		
Firm silt and clayey silt; clay lumps. [Qn]	28 30		16		
T. D. 30'					

NUMBER: 80012

SITE: Harbor Avenue SW.

GROUND ELEVATION: 75'

INVESTIGATOR: Seattle Engineering Department; B-06293.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose, silty fine-grained sand. [Qva]	0 2 4		4		
Soft silt and clay. [Qva]	6 8 10		4		
Soft clay and silt. [Qva]	12 14 16		5		
Medium dense clayey silt. [Qva]	18 20 22		12		
	24 26		12		
Medium dense clayey silt; clay lumps. [Qva]	28 30		13		
T. D. 30'					

NUMBER: 80013

SITE: 20' S. of centerline SW Admiril Way, 75'W of centerline 65 th Avenue S..

GROUND ELEVATION: 25'

INVESTIGATOR: Seattle Engineering Department; B-05743.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)		
Soft silt with sand and clay. [Qal]	0	<div>8/5/69</div> <div></div>	4				
	2						
	4						
Very soft, silt and clay; traces of organic material and sand. [Qal]	6		<1				
	8						
Loose sand with silt and clay; traces of gravel and organic material. [Qal]	10		2				
	12						
	14		40				
Very stiff silt; pieces if siltstone. [Bedrock]	16						
	18						
	20						
T. D. 20'							

NUMBER: 80014

SITE: 35' S. of centerline Alki Avenue S., 30' E. of centerline 64 PI SW.

GROUND ELEVATION: 0'

INVESTIGATOR: Seattle Engineering Department; B-05743.

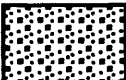

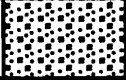
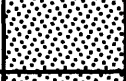
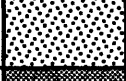
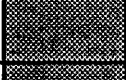

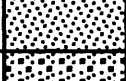
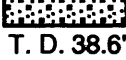
Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Firm sand with gravel. [Qn]	0	<div>9/29/69</div> <div></div>			
	2				
4	29				
Very compact gravel with well-graded sand. [Qg]	6		72		
	8				
Compact sand with gravel and traces of silt. [Qg]	10		46		
	12				
	14				
	16				
T. D. 15'					

NUMBER: 80015

SITE: Th 1 - Point PI SW sewer project.

GROUND ELEVATION: 0'

INVESTIGATOR: Seattle Engineering Department; B-00298.

Lithology		Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Firm, mediu- to coarse-grained sand; fine-grained gravel and organic material. [Qal]		0 2 4	7/19/62 	19		
Firm, medium- to coarse-grained sand; fine-grained gravel and organic material. [Qn]		6 8		25		
Soft, decomposing peat over 2" of medium-grained sand. [Qn]		10 12 14		6		
Loose, layers of fine-, medium- and coarse-grained sand, and peat. [Qn]		16 18 20		4		
Firm, fine- to medium-grained sand; trace of fine-grained gravel. [Qn]		22 24		27		
Loose, 1/2" to 2" layers of peat and fine- and medium-grained sand. [Qn]		26 28 30		11		
Firm, fine- to coarse-grained sand; some fine-grained gravel and 1/8" layer peat. [Qn]		32 34		21		
Firm, medium- to coarse-grained sand; fine-grained gravel and peat. [Qn]		36 38		13		
T. D. 38.6'		40				

NUMBER: 80016

SITE: 60' E. of centerline 62 nd Avenue SW, 30' S. of centerline Admiril Way.

GROUND ELEVATION: 12'

INVESTIGATOR: Seattle Engineering Department; B-05749.

Lithology		Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
		0				
Loose sand; traces of silt and clay. [Qal]		2				
		4		7		
		6				
Loose sand; traces of silt and clay. [Qal]		8		8		
		10				
Firm sand; traces of silt, clay and gravel. [Qal]		12				
		14		11		
		16				
Firm gravelly sand; traces of silt and clay. [Qn]		18		24		
		20				
	T. D. 20'					


9/16/69

NUMBER: 80017

SITE: 15' W. of centerline 62 nd Ave. SW, 50' N. of centerline SW Spokane St..

GROUND ELEVATION: 12'

INVESTIGATOR: Seattle Engineering Department; B-05749.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Firm, clean, fine- to medium-grained sand. [Qal]	0 2 4	 8/5/69	13		
Loose sand; traces of silt. [Qal]	6 8		7		
Siltstone; sandy silt to silt. [Bedrock]	10 12 14		25		
Compact, gravelly sand to gravel; traces of clay. [Bedrock]	16 18 20		45		
	T. D. 20'				

NUMBER: 80018

SITE: 25' E. of centerline Beach Dr. SW, 75' N. of centerline SW Douglas Pl..

GROUND ELEVATION: 0'

INVESTIGATOR: Seattle Engineering Department; B-05746.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Firm, clean, fine- to medium-grained sand. [Qal]	0 2 4		20		
Compact, well-graded sand with gravel. [Qg]	6 8				
Very compact, fine- to very fine grained sand; trace of silt. [Bedrock]	10 12 14		54		
	T. D. 15'		42		

NUMBER: 80019

SITE: 15' S. of centerline SW Spokane ST., 2' E. of centerline 55 th St. SW.

GROUND ELEVATION: 300'

INVESTIGATOR: Seattle Engineering Department; B-05746.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose, well-graded sand with gravel and silt. [Qva]	0 2 4		6		
Loose sand; traces of gravel and silt. [Qva]	6 8 10		2		
Firm sand; traces of gravel and silt. [Qva]	12 14 16		29		
	T. D. 15'				

NUMBER: 80020

SITE: Point PI SW sewer project.

GROUND ELEVATION: 25'

INVESTIGATOR: Seattle Engineering Department; B-00298.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Firm, medium-grained sand with gravel to 3/4". [Qg]	0 2 4				
Firm, medium-grained sand with gravel to 3/4". [Qg]	6 8 10		21		
Firm, medium- to coarse-grained sand with gravel to 3/4". [Qg]	12 14 16		24		
Firm, medium- to coarse-grained sand with gravel to 3/4". [Qg]	18 20 22		20		
Medium dense, silty sand; traces of fine-grained gravel, fine sand, and clay. [Qn]	24 26 28		11		
Firm, fine-grained sand and silt; traces of stratified clay. [Bedrock]	30		52		
	T. D. 28.5'				


7/18/62

NUMBER: 81001

SITE: California Avenue SW and SW Raymond.

GROUND ELEVATION: 275'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #7, B-05781.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Firm, silty fine-grained sand. [Qva]	0 2 4	 4'1 4/70"	29		
Very compact, fine-grained sand with silt layer. [Qva]	6 8		54		
Very compact, fine-grained sandy silt with sand layer. [Qva]	10 12 14 16		78		
	T. D. 15'				

NUMBER: 81002

SITE: SW Genesee and 44 th SW.

GROUND ELEVATION: 350'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #8, B-05781.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Compact fine-grained sand. [Qva]	0 2 4		33		
Firm fine-grained sand. [Qva]	6 8		27		
Firm fine-grained sand. [Qva]	10 12 14 16		26		
	T. D. 15'				

NUMBER: 81003

SITE: SW Raymond and 46 th SW.

GROUND ELEVATION: 225'

INVESTIGATOR: Seattle Engineering Department; W. Seattle, B-05785.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Soft silty sand with peat. [Qal]	0 2 4	2/4/70 	4		
Stiff clayey silt with sand layers. [Qva]	6 8 10		17		
Compact fine-grained sand. [Qva]	12 14 16		36		
T. D. 15'					

NUMBER: 81004

SITE: 47 th SW and SW Genesee.

GROUND ELEVATION: 350'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #16, B-05785.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Firm, fine-grained sand with gravel and silt. [Qva]	0 2 4		24		
Compact, fine-grained sand. [Qva]	6 8 10		31		
Compact, fine-grained sand. [Qva]	12 14 16		46		
Compact, fine-grained sand. [Qva]	18 20		44		
T. D. 20'					

NUMBER: 81005

SITE: SW Juneau and 48 th SW.

GROUND ELEVATION: 200'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #26, B-05791.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Firm sand. [Qva]	0 2 4	 2/4/70	18		
Compact, medium-grained sand. [Qva]	6 8 10		35		
Very compact sand; 6" layer of coarse sand. [Qva]	12 14 16		64		
T. D. 15'					

NUMBER: 81006

SITE: 49 th Ave SW and SW Raymond.

GROUND ELEVATION: 200'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #27, B-05791.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Very compact silty sand. [Qva]	0 2 4	 2/4/70	52 (rock ?)		
Stiff fine-grained sand and sandy silt with clay. [Qva]	6 8 10		23		
Very compact fine- to coarse-grained sand. [Qva]	12 14 16		76		
Very compact fine-grained sand. [Qva]	18 20		50+		
T. D. 20'					

NUMBER: **81007**

SITE: Beach Dr. SW and SW Juneau.

GROUND ELEVATION: 25'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #39, B-05800.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Very stiff silty clay; rock fragments. [Qva]	0	 2' 1 1/70 ft			
	2				
	4		41		
Stiff clayey silt. [Qva]	6				
	8		24		
	10				
Very stiff clayey silt. [Qva]	12				
	14		29		
Very stiff clayey silt. [Qva]	16				
	18				
	20		29		
T. D. 20'					

NUMBER: **81008**

SITE: Beach Dr. SW and SW Graham.

GROUND ELEVATION: 62'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #40, B-05800.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Very stiff silt; clayey silt layers. [Qva]	0				
	2				
	4		50+		
Very stiff silt; clayey silt layers. [Qva]	6				
	8		68		
	10				
Very stiff silt; clayey silt layers. [Qva]	12				
	14		44		
Very stiff clayey silt. [Qva]	16				
	18				
	20		43		
T. D. 20'					

NUMBER: 81009

SITE: Atlas PI SW and SW Graham.

GROUND ELEVATION: 125'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #41, B-05801.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose, silty, gravelly sand. [Qva]	0 2 4		5		
Loose, silty, gravelly sand. [Qva]	6 8 10		9		
Very compact, coarse-grained sand with gravel. [Qva]	12 14 16		51		
T. D. 20'					

NUMBER: 81010

SITE: Beach Dr. SW and SW Oregon.

GROUND ELEVATION: 12'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #42, B-05801.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose, fine-grained sand and clayey silt. [Qn]	0 2 4		7		
Firm clayey silt and fine-grained sand with gravel. [Qn]	6 8 10		18		
Very stiff silt and clay. [Qn]	12 14 16		50		
T. D. 15'					

NUMBER: 81011

SITE: Seattle Kingdome.

GROUND ELEVATION: 11.3'

INVESTIGATOR: Geolabs, Inc.; B-23.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Wet, medium dense, silty, fine- to medium-grained sand. [af]	0				
	2				
	4		20		
	6		24		
Medium dense, silty, fine- to medium-grained sand with organic debris. [af]	8		12		
	10		50		
Compact, silty, fine- to medium-grained sand. [Qvt]	12		50/6"		
	14				
	16		50/5"		
	18				
T. D. 16.5'					

NUMBER: 81012

SITE: Seattle Kingdome.

GROUND ELEVATION: 12.5'

INVESTIGATOR: Geolabs, Inc.; B-25.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose, gravelly sand. [af]	0				
	2		7		
Loose to medium dense, silty sand. [af]	4		16		
	6		7		
Loose, clean sand. [af]	8		8		
	10				
T. D. 9.0'					

NUMBER: 81013

SITE: Seattle Kingdome.

GROUND ELEVATION: 14.4'

INVESTIGATOR: Geolabs, Inc.; B-27.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Medium dense, silty, sandy gravel. [af]	0		18		
	2		19		
Wet, medium dense, sand with organic debris.	4		12		
	6		4		
Loose, silty, fine-grained sand. [af]	8				
	10				
T. D. 9.0'					

NUMBER: 81014

SITE: Seattle Kingdome.

GROUND ELEVATION: 13.5'

INVESTIGATOR: Geolabs, Inc.; B-26.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Medium dense, clean sandy gravel. [af]	0		25		
	2		23		
Medium dense, silty, fine- to coarse sand. [af]	4		10		
	6		7		
Loose, silty, gravelly sand. [af]	8				
	10				
T. D. 9.0'					

NUMBER: 81015

SITE: Seattle Kingdome.

GROUND ELEVATION: 11.3'

INVESTIGATOR: Geolabs, Inc.; B-24.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Medium dense, silty, medium- to coarse-grained sand. [af]	0				
	2				
	4		18		
	6		10		
Wet, loose, fine- to medium-grained sand with silt lenses, organic debris and shell fragments. [af]	8		12		
	10		8		
	12				
	14		50/5"		
	16		50/3"		
	18		50/1"		
Soft to medium dense, silt with shell fragments. [Qal]	20		50/1"		
	22				
	24		14		
	26				
	28		push		
	30		8		
	32				
	34		push		
Wet, very dense, silty, clayey, fine- to medium-grained sand grading into silty gravel. [Qvt]	36		push		
	38				
	40		50/6"		
	42				
	44		50/5"		
	46				
	48		62/12"		
	50				
Very dense, slightly silty, fine- to coarse-grained sand with lenses of very coarse sand and pea gravel. [Qva]	52		52/6"		
	54				
	56		50/5"		
	58				
	60				
	62		50/6"		
	64				
	66				
	68		50/5"		
	70				
	72				
	74		55/6"		
	76				
	78		52/6"		
	80				


T. D. 78.5'

NUMBER: 81016

SITE: SW Frontenac and California Avenue SW.

GROUND ELEVATION: 237'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #30, B-07059.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Firm fine-grained sand with gravel and silt. [Qva]	0	 11/29/71			
	2				
	4		11		
Compact fine-grained sand with gravel. [Qva]	6				
	8		34		
	10				
Firm fine-grained sand with gravel. [Qva]	12				
	14		22		
	16				
T. D. 15'					

NUMBER: 81017

SITE: SW Frontenac and 40 th SW.

GROUND ELEVATION: 350'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #31, B-07059.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose fine-grained sand with gravel. [Qva]	0				
	2				
	4		3		
Loose, silty fine-grained sand with gravel. [Qva]	6				
	8		3		
	10				
Firm, silty fine-grained sand with gravel. [Qva]	12				
	14		16		
	16				
T. D. 15'					

NUMBER: 81018

SITE: Fauntleroy Way SW and 41 st Avenue SW.

GROUND ELEVATION: 275'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #36, B-07062.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Firm silty sand with gravel. [Qva]	0 2 4	 10/26/71	21		
Firm very fine grained sand; trace of gravel. [Qva]	6 8 10		26		
Firm fine-grained sand; trace of gravel. [Qva]	12 14 16		24		
T. D. 15'					

NUMBER: 81019

SITE: SW Holly and 40 th SW.

GROUND ELEVATION: 325'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #37, B-07062.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Firm sand with gravel. [Qva]	0 2 4		17		
Compact medium- to coarse-grained sand with gravel. [Qva]	6 8 10		48		
Very compact fine- to medium-grained sand with gravel. [Qva]	12 14 16		52		
T. D. 15'					

NUMBER: 81020

SITE: SW Juneau and 37 th SW.

GROUND ELEVATION: 325'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #50, B-07069.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose, silty fine-grained sand with gravel. [Qva]	0 2 4		2		
Loose, silty fine-grained sand. [Qva]	6 8		8		
Firm fine-grained sand and silt. [Qva]	10 12 14		25		
Firm fine-grained sand with silt layer. [Qva]	16 18		24		
Firm fine-grained sand with gravelly sand layers. [Qva]	20 22 24 26		29		
T. D. 25'					

NUMBER: 81021

SITE: SW Findlat between 40 th and 41 st Avenue SW.

GROUND ELEVATION: 325'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #51, B-07069.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Very compact, silty sand with gravel. [Qvt]	0 2 4		100+		
Compact, fine-grained sand with medium-grained sand layers. [Qva]	6 8		43		
Very compact, fine-grained sand. [Qva]	10 12 14 16		65		
T. D. 15'					

NUMBER: 81022

SITE: Fauntleroy Way SW and SW Raymond.

GROUND ELEVATION: 275'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #48, B-07068.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Medium dense silt with sand layer. [Qva]	0 2 4	 10/26/71 11:11	6		
Compact fine-grained sand with gravel. [Qva]	6 8		50		
Firm, silty sand with gravel and fine-grained sand. [Qva]	10 12 14		25		
Firm, fine-grained sand. [Qva]	16 18		29		
Compact, fine-grained sand. [Qva]	20 22 24		50		
	T. D. 25' 26				

NUMBER: 81023

SITE: Fauntleroy Way SW and SW Juneau.

GROUND ELEVATION: 275'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #49, B-07068.



Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose, Silty sand with clay. [Qva]	0 2 4		10		
Firm, fine-grained sand with thin silt layers. [Qva]	6 8		17		
Compact, silty sand with gravel. [Qva]	10 12 14		33		
	T. D. 15' 16				

NUMBER: 81024

SITE: 36 th Avenue SW and SW Raymond.

GROUND ELEVATION: 350'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #46, B-07067.


Lithology		Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)	
Firm silt to very fine grained sand with gravel and silt layers. [Qva]		0	 12/6/71				
		2					
		4		17			
Very compact silt to very fine grained sand with gravel and sand seams. [Qva]		6					
		8			54		
Very compact silt to very fine grained sand with gravel and silt layers. [Qva]		10					
		12					
		14		100+			
		16					

NUMBER: 81025

SITE: SW Raymond and 35 th SW.

GROUND ELEVATION: 375'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #47, B-07067.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Very stiff fine-grained sand and clayey silt. [Qva]	0 2 4	 12/7/71			
Very compact silty fine-grained sand with a trace of gravel. [Qva]	6 8		34 67		
Very compact gravelly sand and silty fine-grained sand with gravel. [Qva]	10 12 14 16		73		
T. D. 15'					

NUMBER: 81026

SITE: Fauntleroy Way SW and SW Austin.

GROUND ELEVATION: 175' (?)

INVESTIGATOR: Seattle Engineering Department; W. Seattle #12, B-05842.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Firm sand with silt. [Qg]	0 2 4	 9/26/70	23		
Firm silt and clay. [Qn]	6 8 10		18		
Compact clayey silt to silt. [Qn]	12 14 16		34		
T. D. 15'					

NUMBER: 81027

SITE: 45 th Avenue SW and SW Webster.

GROUND ELEVATION: 225' (?)

INVESTIGATOR: Seattle Engineering Department; W. SEattle #13, B-05842.




Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Medium dense silt ; some sand and trace of organic material. [Qn]	0 2 4	 9/11/70	9		
Medium dense clayey silt; trace of organic material. [Qn]	6 8 10		8		
Medium dense silt and clay. [Qn]	12 14 16		10		
Firm silt and clay grading downward to silt. [Qn]	18 20 22		18		
Firm silt. [Qn]	24 26 28		23		
Firm silt and clay. [Qn]	30		18		
T. D. 30'					

NUMBER: 81028

SITE: SW Webster and 37 th SW.

GROUND ELEVATION: 475'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #26, B-05850.




Lithology		Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Very compact, silty sand with gravel. [Qvt]		0 2 4		60		
Very compact, silty sand with gravel. [Qvt]		6 8 10		50+		
Very compact, silty sand with gravel. [Qvt]		12 14 16		50+		
	T. D. 15'					

NUMBER: 81029

SITE: 37 th SW and SW Holden.

GROUND ELEVATION: 450'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #27, B-05850.

Lithology		Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Compact silty fine-grained sand with gravel and silt layer. [Qvt]		0 2 4		35		
Very compact fine-grained sand with gravel and silt layer. [Qvt]		6 8 10		95		
Very compact silty fine-grained sand with gravel. [Qva]		12 14 16		50+		
	T. D. 15'					

NUMBER: 81030

SITE: SW Austin and 41 st Avenue SW.

GROUND ELEVATION: 375'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #30, B-05852.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose fine- to medium-grained sand with a trace of gravel. [Qva]	0 2 4		9		
Compact fine- to medium-grained sand with coarse-grained sand layer. [Qva]	6 8 10		31		
Compact fine-grained sand. [Qva]	12 14 16		32		
	T. D. 15'				

NUMBER: 81031

SITE: 45 th SW and SW Cambridge.

GROUND ELEVATION: 125'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #1, B-06936.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Soft clayey silt. [Qva]	0 2 4		5		
Medium dense clayey silt with clay lumps. [Qva]	6 8 10		6		
Medium dense clayey silt with clay lumps. [Qva]	12 14 16		7		
Stiff clayey silt with clay lumps and silt seams. [Qva]	18 20		20		
	T. D. 20'				

NUMBER: 81032

SITE: 44 th SW and SW Cambridge.

GROUND ELEVATION: 162'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #2, B-06936.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Medium dense silt and fine-grained sand; trace of organic material. [af]	0 2 4	6/10/71 #1	6		
Soft clayey silt with clay lumps. [Qva]	6 8		5		
Soft clayey silt with clay lumps. [Qva]	10 12 14		3		
Medium dense silty clay with clay lumps. [Qva]	16 18		11		
Stiff silty clay. [Qva]	20 22 24		17		
	26				

T. D. 25'

NUMBER: 81033

SITE: Fauntleroy Way SW and SW Henderson Street.

GROUND ELEVATION: 25'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #11, B-06942.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Firm sand with gravel. [Qvr]	0 2 4		27		
Compact sand with gravel. [Qvr]	6 8		40		
Compact gravelly sand. [Qvr]	10 12 14		46		
Very compact gravelly sand. [Qvr]	16 18 20		61		

T. D. 20'

NUMBER: 81034

SITE: 35th Avenue SW and SW Rose Street.

GROUND ELEVATION: 387'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #26; B-06592.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Firm; silty sand with gravel. [af]	0 2 4		14		
Firm to medium dense; silty sand with gravel to silt with sand and gravel. [Qvr]	6 8 10		14		
Firm to medium dense; silty sand with gravel. [Qvr]	12 14 16 18		36 (rock)		
Very compact; slightly silty sand with gravel. [Qvt]	20 22 24 26		58 61		
Very compact; clean, fine- to medium-grained sand with gravel. [Qvt]	28 30		85+		
Very compact; clean, fine-grained sand. [Qva]	32 34		60		
T.D. 35'					

NUMBER: 81035

SITE: 37 th Avenue SW and SW Barton Street.

GROUND ELEVATION: 300'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #18, B-06947.

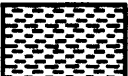


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose silt and sand with gravel. [Qal]	0 2 4		2		
Firm silty sand with gravel and sand seams. [Qvr]	6 8 10		21		
Very compact silty sand with gravel and sand seams. [Qvr]	12 14 16		57		
T. D. 15'					

NUMBER: 81036

SITE: 35 th Avenue SW and SW Barton Street.

GROUND ELEVATION: 325'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #19, B-06947.



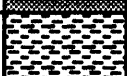
Lithology		Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Medium loose silt with occasional gravel and sand. [Qvr]		0 2 4		6		
Very compact silty sand with gravel and sand seams. [Qvt]		6 8 10		59		
Very compact silty sand with gravel and sand seams. [Qvt]		12 14 16		88+		
	T. D. 15'					

NUMBER: 81037

SITE: California Avenue SW and SW Henderson.

GROUND ELEVATION: 162'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #45, B-06964.

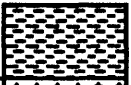

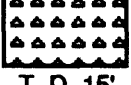
Lithology		Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose fine-grained sand with gravel and silt with sand and gravel. [Qvr]		0 2 4		2		
Firm silty sand with gravel. [Qvr]		6 8 10		27		
Compact silt layered with fine-grained sand and occasional gravel. [Qvr]		12 14 16		43		
	T. D. 15'					

NUMBER: 81038

SITE: 42 nd Avenue SW and SW Cloverdale.

GROUND ELEVATION: 375'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #46, B-06964.

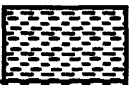
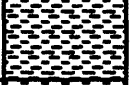
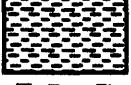
Lithology		Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose sandy silt; gravel and wood fragments. [Qal]		0 2 4		1		
Very compact sand and silt with gravel. [Qvt]		6 8 10		50+		
Very compact silty sand with gravel. [Qvt]		12 14 16		50+		
	T. D. 15'					

NUMBER: 81039

SITE: 47 th Avenue SW, N. of 10208, 9' S. of centerline Valt, 3' E. of Pavement.

GROUND ELEVATION: 50'

INVESTIGATOR: Seattle Engineering Department; W. Seattle #2, B-7737.


Lithology		Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Soft sandy silt with clay and gravel. [af]		0 2 4		4		
Medium dense clayey silt with silt partings. [Qn]		6 8 10		10		
Stif clayey silt with thin silt layers. [Qn]		12 14 16		18		
	T. D. 15'					

NUMBER: **81040**

SITE: 47 th Avenue SW, Sand Box 10214, SW Corner.

GROUND ELEVATION: 50'

INVESTIGATOR: Seattle Engineering Department; Slide #3, B-7737.

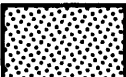


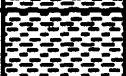
Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Firm to loose, silty fine-grained sand grading to medium- to coarse-grained sand; gravel. [af]	0 2 4	 7/14/75	14		
Stiff clayey silt. [Qva]	6 8		10		
Stiff clayey silt with 2" distorted zone. [Qn]	10 12 14		18 21		
Stiff clayey silt with silt layers. [Qn]	16 18 20		24		
T. D. 20'					

NUMBER: **81041**

SITE: 10422 47 th Avenue SW.

GROUND ELEVATION: 100'

INVESTIGATOR: Seattle Engineering Department; Slide #8, B-7740.


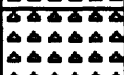

Lithology		Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose sand with gravel, fine-grained sand and silt. [Qva]		0 2 4	 8/12/75	3		
Soft to medium dense, clayey silt. [Qn]		6 8		1 2		
Stiff, massive clayey silt. [Qn]		10 12 14 16		8 16		
T. D. 15'						

NUMBER: 81042

SITE: S. McClellan and Cascadia Avenue S.

GROUND ELEVATION: 150'

INVESTIGATOR: Seattle Engineering Department; Lake Washington #301, B-06014.


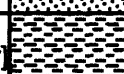
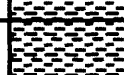
Lithology		Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Very stiff silt with sand and a trace of gravel. [Qvt]		0 2 4		70		
Very compact sand with silt and a trace of gravel. [Qvt]		6 8 10		50+		
Very compact sand with silt, gravel, and fractured rock. [Qvt]		12 14 16		50+		
	T. D. 15'					


NUMBER: 81043

SITE: S. McClellan and 36 th S.

GROUND ELEVATION: 100'

INVESTIGATOR: Seattle Engineering Department; Lake Washington #302, B-06014.

Lithology		Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose sand and peat with silt. [Qal]		0 2 4		7		
Stiff silt and peat with clay and sand layers. [Qvr]		6 8 10		17		
Very stiff silt with wet sand layers. [Qvr]		12 14 16		35		
	T. D. 15'					

7/17/69 

NUMBER: 81044

SITE: Mt. Saint Helens Pl. S. and S. Ridgeway Pl..

GROUND ELEVATION: 150'

INVESTIGATOR: Seattle Engineering Department; Lake Washington #303, B-06015.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Firm sand; trace of gravel and silt. [Qvr]	0 2 4		25		
Very stiff silt with a trace of gravel and sand. [Qvt]	6 8 10		82		
Very compact silt with a trace of gravel. [Qvt]	12 14 16 T. D. 15'		50+		

NUMBER: 81045

SITE: Cascadia Avenue S. and Sierra Dr. S.

GROUND ELEVATION: 125'

INVESTIGATOR: Seattle Engineering Department; Lake Washington #304, B-06015.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Very compact sand with silt layers. [Qvt]	0 2 4	 7/17/69	78+		
Very compact sand with silt and gravel. [Qvt]	6 8 10		50+		
Very stiff silt. [Qva]	12 14 16		38		
Very compact sand with silt and gravel. [Qva]	18 20 T. D. 20'		50+		

NUMBER: 81046

SITE: S. Jackson and Lakeside.

GROUND ELEVATION: 25'

INVESTIGATOR: Seattle Engineering Department; Lake Washington #3, B-07024.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Medium dense silt with fine-grained sand. [Qva]	0 2 4	 7/27/71	7		
Medium dense fine-grained sand with wood. [Qva]	6 8				
Loose medium-grained sand and clayey silt with sand. [Qva]	10 12 14		3		
Firm clayey silt and silty sand with a trace of gravel. [Qg]	16 18 20		29		
Very compact silty sand with a trace of gravel and clayey silt. [Qg]	22 24 26		65		
T. D. 25'					

NUMBER: 81047

SITE: S. King and 31 st Avenue.

GROUND ELEVATION: 300'

INVESTIGATOR: Seattle Engineering Department; Lake Washington #1, B-07024.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Firm silty fine-grained sand. [Qva]	0 2 4		13		
Loose silt with fine-grained sand. [Qva]	6 8				
Medium dense silt. [Qva]	10 12 14		10		
Medium dense clayey silt. [Qva]	16 18 20		15		
T. D. 20'					

NUMBER: 81048

SITE: S. King and Lakeside.

GROUND ELEVATION: 50'

INVESTIGATOR: Seattle Engineering Department; Lake Washington #4, B-07025.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose fine-grained sand with silty sand layers. [Qva]	0 2 4	 7/30/71	4		
Loose silty fine-grained sand. [Qva]	6 8		1		
Very compact silty fine-grained sand. [Qva]	10 12 14		50+		
Very stiff clayey silt. [Qva]	16 18 20		68		
T. D. 20'					

NUMBER: 81049

SITE: 32 nd Avenue S. and S. Dearborn.

GROUND ELEVATION: 175'

INVESTIGATOR: Seattle Engineering Department; Lake Washington #5, B-07025.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Medium dense clayey silt with a trace of gravel. [Qva]	0 2 4		14		
Medium dense clayey silt with a trace of gravel. [Qva]	6 8		14		
Stiff clayey silt with vertical fine-grained sand seams. [Qva]	10 12 14		25		
Very stiff clayey silt with gravel and fine-grained sand. [Qva]	16 18 20		41		
T. D. 20'					

NUMBER: 81050

SITE: S. Norman and Lakeside.

GROUND ELEVATION: 25'

INVESTIGATOR: Seattle Engineering Department; Lake Washington #12, B-07029.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Very soft clayey silt with clay lumps. [Qva]	0	 7/28/71			
	2				
	4		2		
Peat and wood. [Qn]	6				
	8		5		
	10				
	12				
Firm medium-grained sand with gravel and silty sand with gravel. [Qg]	14		1		
	16				
	18				
Compact silty fine-grained sand and gravel. [Qg]	20		23		
	22				
	24		35		
	26				
T. D. 25'					

NUMBER: 81052

SITE: Atlantic and Lakeside.

GROUND ELEVATION: 25'

INVESTIGATOR: Seattle Engineering Department; Lake Washington #3, B-07033.




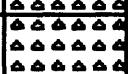



Lithology		Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose silty sand with gravel. [Qvt]		0				
		2				
		4		9		
Firm silty sand with a trace of gravel. [Qvt]		6				
		8		27		
		10				
Compact silty sand with gravel. [Qvt]		12				
		14		40		
Compact silty sand with gravel and sand layers. [Qvt]		16				
		18				
	20	48				
Compact silty fine-grained sand with a trace of coarse-grained sand. [Qvt]		22				
		24		37		
		26				
T. D. 25'						

NUMBER: 81053

SITE: Lake Washington Blvd. and Doses Terrace.

GROUND ELEVATION: 25'

INVESTIGATOR: Seattle Engineering Department; Lake Washington #3, B-07033.






Lithology		Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Firm silty sand with gravel. [Qvt]		0 2 4	8/17/71 	11		
Firm silty sand and fine-grained sand. [Qvt]		6 8		27		
Very compact very fine grained sand to silt with sand layers. [Qvt]		10 12		80		
Very compact sand with gravel. [Qvt]		14 16 18		69		
Very compact very fine grained sand. [Qvt]		20 22 24		68		
		26				
	T. D. 25'					

NUMBER: 81054

SITE: S. Myrtle Street and Beacon Avenue.

GROUND ELEVATION: 250'

INVESTIGATOR: Seattle Engineering Department; B-7816.


Lithology		Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Firm silty sand with gravel. [Qvt]		0 2 4	4/1/75 	20 25		
Firm clay with thin sand layers and silty sand with gravel. [Qva]		6 8		13		
Very compact silty fine-grained sand with sand layers. [Qva]		10 12 14		56		
		16				
	T. D. 15'					

NUMBER: 81055

SITE: S. 98 th and 14 Avenue S.

GROUND ELEVATION: 425'

INVESTIGATOR: Seattle Engineering Department; B-06233.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose fine- to medium-grained sand with silt and a trace of organic material. [Qvr]	0 2 4	10/28/69 			
Firm very fine grained sand with silt. [Qvr]	6 8		7		
Very compact, clean fine- to medium-grained sand. [Qvr]	10 12 14		25		
Very stiff silty clay with silt and very fine grained sand layers. [Qvr]	16 18		80		
Stiff silty clay with sand, gravel and silty clay layers. [Qvt]	20 22 24		41		
	26		20		
T. D. 25'					

NUMBER: 81056

SITE: S. 98 th and 12 th Avenue S.

GROUND ELEVATION: 425'

INVESTIGATOR: Seattle Engineering Department; B-06233.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Very compact medium-grained sand with fractured rock, gravel and silt. [Qvr]	0 2 4	10/29/69 			
Very compact medium- to fine- grained sand and gravel with sand. [Qvr]	6 8		77		
Very compact fine-grained sand to gravel, 1" layer of very fine-grained sand and silt. [Qvr]	10 12 14		50+		
Compact gravel with sand and fine- to medium-grained sand. [Qvr]	16 18		53		
Very compact coarse- to fine-grained sand. [Qvr]	20 22 24		47		
	26		70+		
T. D. 25'					

NUMBER: 81057

SITE: 7 th Avenue S. and S. 98 th.

GROUND ELEVATION: 425'

INVESTIGATOR: Seattle Engineering Department; B-06235.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Medium dense silt with sand and clay. [Qvr]	0 2 4		6		
Loose sand with silt lumps. [Qvr]	6 8		8		
Compact sand. [Qvr]	10 12 14		31		
No recovery	16 18				
Firm sand with silt and silt lumps. [Qvr]	20 22 24 26		26		
T. D. 25'					

NUMBER: 81058

SITE: 5 th Avenue S. and S. 98 th.

GROUND ELEVATION: 400'

INVESTIGATOR: Seattle Engineering Department; B-06235.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Firm sand with silt, gravel, and a trace of organic material. [Qvr]	0 2 4		13		
Firm fine- to medium-grained sand with a trace of gravel and silt. [Qvr]	6 8		11		
Firm coarse- to fine-grained silty sand. [Qvr]	10 12 14 16		16		
T. D. 15'					

NUMBER: 81059

SITE: Director and W. Marginal Way.

GROUND ELEVATION: 37'

INVESTIGATOR: Seattle Engineering Department; B-7806.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose silt to very fine grained sand. [Qvr]	0 2 4	 8/31/73	6		
Loose silt to very fine grained sand with layered sands and silts. [Qvr]	6 8 10		9		
Firm fine-grained sand; some medium-grained sand. [Qvr]	12 14		17		
Firm fine- to mediumgrained sand; some gravel. [Qvr]	16 18 20		12		
Very compact silty sand and gravel. [Qvt]	22 24 26		100+		
T. D. 25'					

NUMBER: 81060

SITE: 10 th Avenue S. and S. Trenton.

GROUND ELEVATION: 50'

INVESTIGATOR: Seattle Engineering Department; B-7806.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Loose fine-grained sand with some silt and a trace of organic material. [Qvr]	0 2 4		8		
Loose, layered fine- to medium-grained sand. [Qvr]	6 8 10		8		
Silt with hard lumps, 2" of siltstone in tip. [Bedrock]	12 14 16		100+		
T. D. 15'					

NUMBER: 82001

SITE: E. Republican and 30 th Avenue E..

GROUND ELEVATION: 112'(?)

INVESTIGATOR: Seattle Engineering Department; B-07342.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, medium dense clay and silt. [Qva]	0 2 4	 12/18/72	10		
Moist, firm silty sand with clay and silt layers. [Qva]	6 8 10		11		
Moist, firm silt with a trace of gravel and sand seams. [Qn]	12 14 16		26		
Moist, very compact, sandy silt with gravel. [Qg]	18 20 22		100+		
Moist, very compact, sandy silt with gravel. [Qg]	24 26		100+		
T. D. 25'					

NUMBER: 82002

SITE: E. Mercer and 30 th Avenue E.

GROUND ELEVATION: 100'(?)

INVESTIGATOR: Seattle Engineering Department; B-07342.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, very stiff sandy silt with gravel. [Qva]	0 2 4	 12/28/72	28		
Moist, very stiff silt; fractured rock and silty clay. [Qva]	6 8 10		65		
Moist, very stiff silt; thin sand layers. [Qva]	12 14 16		34		
Moist, very stiff silt. [Qva]	18 20 22		32		
Moist, very stiff silt with clay. [Qn]	24 26 28		29		
Moist, very stiff silt with clay. [Qn]	30		26		
T. D. 30'					

NUMBER: 82003

SITE: E. Madison and E. John.

GROUND ELEVATION: 275'

INVESTIGATOR: Seattle Engineering Department; B-07334.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, loose, silty sand with a trace of wood ash. [af]	0 2 4	 9771	9		
Moist, firm, silty sand with a trace of clay. [Qva]	6 8		18		
Moist, very stiff, silt with fine-grained sand layers. [Qva]	10 12 14		28		
Moist, medium dense clay. [Qva]	16 18				
Moist, very stiff silt. [Qva]	20 22 24		15 33		
Moist, very stiff silt. [Qva]	26 28				
	30		35		
T. D. 30'					

NUMBER: 82004

SITE: Empire Way and E. Cherry (85' S. of centerline Cherry).

GROUND ELEVATION: 275'

INVESTIGATOR: Seattle Engineering Department; B-07017.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Wet, very soft, sandy silt with a trace of organic material and gravel. [af]	0 2 4		push		
Moist, very compact, sandy silt with gravel and silt seams. [Qvt]	6 8		47		
Moist, very compact, silty sand with gravel and clean sand seams. [Qvt]	10 12 14		78		
Moist, very compact, silt and sand pockets with gravel. [Qvt]	16 18				
	20		50+		
Moist, compact, silt and sand with gravel. [Qva]	22 24		38		
T. D. 25'					

NUMBER: 82005

SITE: Empire Way and E. Marion (58' W. of centerline Empire).

GROUND ELEVATION: 250'

INVESTIGATOR: Seattle Engineering Department; B-07017.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Wet, very soft, silt and sand with gravel and wood. [af]	0 2 4	6/8/71 	2		
Moist, very compact, silty sand with gravel and fractured rock. [Qvt]	6 8 10		93		
Moist, very compact, silty sand with gravel and fractured rock. [Qvt]	12 14 16		84+		
	T. D. 15'				

NUMBER: 82006

SITE: E. Alder and 24 th Avenue.

GROUND ELEVATION: 300'

INVESTIGATOR: Seattle Engineering Department; B-07114.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, firm, silty fine-grained sand with gravel. [Qvr]	0 2 4	3/16/21 	25		
Moist, very compact, silty fine-grained sand with gravel. [Qvt]	6 8 10		100+		
Moist, very compact, silty fine-grained sand with gravel. [Qvt]	12 14 16		100+		
Moist, very compact, silty fine-grained sand with gravel. [Qvt]	18 20 22		100+		
Moist, very compact, silty fine-grained sand with gravel. [Qvt]	24 26		100+		
	T. D. 25'				

NUMBER: 82007

SITE: E. Alder and 27 th Avenue.

GROUND ELEVATION: 300'

INVESTIGATOR: Seattle Engineering Department; B-07114.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, firm, silty fine-grained sand with gravel. [Qvt]	0 2 4	 1/14/71	25		
Moist, very compact, silty fine-grained sand with gravel and silt layers. [Qvt]	6 8		66		
Moist, firm, silty fine-grained sand and clayey silt. [Qva]	10 12 14		21		
Moist, firm, silty fine-grained sand with a trace of gravel. [Qva]	16 18 20		24		
Moist, compact, silty fine-grained sand. [Qva]	22 24 26		36		
T. D. 25'					

NUMBER: 82008

SITE: Empire Way and E. Olive (164' E. of centerline Empire).

GROUND ELEVATION: 150'

INVESTIGATOR: Seattle Engineering Department; B-07020.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, loose, sand with silt. [Qva]	0 2 4		4		
Moist, medium dense, silt and clayey silt with a trace of organic material. [Qn]	6 8		13		
Moist, medium dense, silt and clay with a trace of organic material. [Qn]	10 12 14		13		
Moist, stiff, silt with clay lumps and coarse silt seams. [Qn]	16 18 20		20		
Moist, stiff, silt and clay with silt seams. [Qn]	22 24 26		16		
T. D. 25'					

NUMBER: 82009

SITE: Empire Way and E. Howell (143' E. of centerline Empire).

GROUND ELEVATION: 125'

INVESTIGATOR: Seattle Engineering Department; B-07020.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, very soft, silt and sand. [af]	0				
	2				
	4		2		
Moist, soft, silt, clayey silt, and sand with sand seams and wood fibers. [af]	6				
	8		3		
	10				
Moist, stiff, clayey silt with sand and gravel. [Qn]	12				
	14		17		
Moist, medium dense, clayey silt with sand seams and organic material. [Qn]	16				
	18				
	20		8		
Moist, medium dense, silty clay with sand seams and organic material. [Qn]	22				
	24		10		
	26				
Moist, medium dense, silt with sand seams. [Qn]	28				
	30		13		
T. D. 30'					

NUMBER: 82010

SITE: Empire Way and E. Denny.

GROUND ELEVATION: 125'

INVESTIGATOR: Seattle Engineering Department; B-07021.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist to wet, soft, silt with sand and occasional gravel. [Qva]	0				
	2				
	4		4		
Moist, soft, very fine grained sand and silt with sand seams. [Qva]	6				
	8		5		
	10				
Alternating layers of moist, medium dense, silt and sand. [Qva]	12				
	14		11		
Moist, medium dense, sand and silt with sand seams. [Qva]	16				
	18				
	20		13		
Moist, very compact, silty sand with gravel. [Qg]	22				
	24		83		
	26				
T. D. 25'					


6/4/71

NUMBER: 82011

SITE: 31 st Avenue and E. Howell.

GROUND ELEVATION: 175'

INVESTIGATOR: Seattle Engineering Department; B-07021.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, very soft, silt with clay lumps and occasional gravel and organic material. [Qva]	0 2 4		2		
Moist, soft, clayey silt with sand, organic material and wood. [Qn]	6 8		4		
Wet, soft, clayey silt with sand, organic material and wood. [Qn]	10 12 14		4		
Moist to wet, medium dense, clayey silt with sand, sand seams, and organic material. [Qn]	16 18 20		7		
Wet, firm, silty sand. [Qn]	22 24		16		
Moist, medium dense, silt with clay lumps and sand seams. [Qn]	26 28 30		12		
T. D. 30'					

NUMBER: 82012

SITE: Hillside Drive and E. Harrison Street.

GROUND ELEVATION: 150'

INVESTIGATOR: Seattle Engineering Department; B-07284.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moderately firm, silt with zones of fine sandy silt. [Qva]	0				
	2				
	4				
	6				
	8				
	10		56		
	12				
	14				
Dense, silty fine-grained sand with zones of sandt silt. [Qva]	16				
	18				
	20		101	19.3	
	22				
	24				
	26				
	28				
	30				
Very firm, clayey silt with distorted lenses of silt and fine sandy silt. [Qn]	32	 1/15/72	88		
	34				
	36				
	38				
	40		69	27.6	
	42				
	44				
	46				
	48				
	50		79	28.2	
	52				
	54				
	56				
	58				
	60		90	27.2	
	62				
Layers of silty fine-grained sand. [Qn]	64				
	66				
	68				
	70		105		
	72				
	74				
	76				
	78				
	80		129	30.2	
	82				
	84		105		
	86				
	88				
	90		168		26-41
	92				
	94				
Very firm, clayey silt with layers of silty clay, silt and fine sandy silt. [Qn]	96				
	98				
	100				

T. D. 125'

NUMBER: 82013

SITE: 35 th Avenue and E. Marion Street.

GROUND ELEVATION: 325'

INVESTIGATOR: Seattle Engineering Department; B-07009, hole #24.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, loose, clean fine-grained sand with occasional gravel. [Qva]	0 2 4		8		
Moist, firm, clean fine-grained sand with occasional gravel. [Qva]	6 8		15		
Wet, firm, clean fine-grained sand and silt with sand seams. [Qva]	10 12 14		30		
Wet, compact, very fine grained sand and silt with layers of very fine grained sand. [Qva]	16 18				
Moist, stiff, silt to clayey silt with sand seams. [Qva]	20 22 24		39 18		
Moist, very stiff to compact, clean fine-grained sand and silt. [Qva]	26 28 30		34		
T. D. 30'					

NUMBER: 82014

SITE: 35 th Avenue and E. Columbia Street.

GROUND ELEVATION: 325'

INVESTIGATOR: Seattle Engineering Department; B-07009, hole #25.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, firm, clean fine-grained sand. [Qva]	0 2 4		15		
Wet, compact, slightly silty, fine-grained sand. [Qva]	6 8	5/12/71 	31		
Wet, very compact, silty very fine grained sand. [Qva]	10 12 14		52		
Wet, firm, slightly silty, fine-grained sand with silt seams. [Qva]	16 18				
Moist, stiff, silt with sand seams and clayey silt with a trace of organic material. [Qva]	20 22 24		24 35		
T. D. 25'					

NUMBER: 82015

SITE: 38 th Avenue and E. Denny Way.

GROUND ELEVATION: 220'

INVESTIGATOR: Seattle Engineering Department; B-06998, hole #3.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Wet, very soft, sandy silt with a trace of organic material. [Qva]	0	5/10/71 i Δ			
	2				
	4		1		
Moist, medium dense, sandy, clayey silt with clay lumps. [Qn]	6				
	8		9		
	10				
Moist, stiff, clayey silt with very fine grained sand seams and silty sand layer. [Qn]	12	5/10/71 i Δ			
	14		17		
	16				
Saturated, compact, clean very fine grained sand. [Qn]	18				
	20		39		
	22				
Wet, compact, clean very fine grained sand and silt. [Qn]	24	5/10/71 i Δ	31		
	26				
T. D. 25'					

NUMBER: 82016

SITE: Madrona Drive and E. Olive Street.

GROUND ELEVATION: 165'

INVESTIGATOR: Seattle Engineering Department; B-06998, hole #4.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, medium dense, clayey silt with sand and occasional gravel. [Qn]	0	5/10/71 i Δ			
	2				
	4		9		
Moist, stiff clayey silt with a trace of organic material and sand seams. [Qn]	6				
	8		21		
	10				
Moist, stiff clayey silt. [Qn]	12	5/10/71 i Δ			
	14		18		
	16				
Moist, stiff clay and silt. [Qn]	18				
	20		16		
	22				
Moist, stiff, clayey silt. [Qn]	24	5/10/71 i Δ	24		
	26				
T. D. 25'					

NUMBER: 82017

SITE: 30' W. of centerline Empire Way S. and 70' S. of centerline S. Kenyon Street.

GROUND ELEVATION: 125'

INVESTIGATOR: Seattle Engineering Department; hole # 223.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, very stiff; slightly clayey sandy silt. [Qvr]	0 2 4		38		
Moist, compact; coarse-grained sand with trace of gravel, some clay and very fine-grained sand layers. [Qvt]	6 8 10 12 14		51 35		
Moist, compact; silty fine-grained sand. [Qva]	16 18 20		39		
Moist to wet, very compact; sand. [Qva]	22 24 26 28 30 32 34	3-31-69 	62 62 62 59		
T.D. 35'					

NUMBER: 82018

SITE: 20' N. of centerline S. Kenyon Street and 60' E. of centerline Rainier Avenue S..

GROUND ELEVATION: 50'

INVESTIGATOR: Seattle Engineering Department; Lake Washington SE. #227.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
No recovery.	0	 3/31/69			
	2				
	4		5		
Moist, medium dense silt; some sand. [Qal]	6				
	8		6		
No recovery.	10				
	12				
	14		13		
Moist, medium dense clay; trace of gravel and silt. [Qal]	16				
	18				
	20		7		
Wet, soft clay; trace of gravel. [Qal]	22				
	24		5		
	26				
Moist, very soft clay; sand layers. [Qal]	28				
	30		2		
Moist, firm silt; sand and gravel. [Qvr]	32				
	34		11		
	36				
Wet to moist, compact sand; silt and gravel. [Qvr]	38				
	40		36		
T. D. 40'					

NUMBER: 82019

SITE: 17' S. of centerline S. Kenyon Street and 48' E. of centerline 46 th Avenue S..

GROUND ELEVATION: 75'

INVESTIGATOR: Seattle Engineering Department; Lake Washington SE. #228.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, medium dense silt; sand and a trace of gravel. [Qvr]	0	 3/31/69			
	2				
	4		15		
No recovery.	6				
	8		50		
	10				
Moist, very stiff silt; sand and gravel. [Qvt]	12				
	14		57		
Moist, very stiff silt; sand and a trace of gravel. [Qvt]	16				
	18		144		
	20				
Very compact sand; silt and gravel. [Bedrock]	22				
	24		200		
	26				
T. D. 25'					

NUMBER: 82020

SITE: 16' E. of centerline 48 th Avenue S. and 65' S. of centerline Othello Street.

GROUND ELEVATION: 100'

INVESTIGATOR: Seattle Engineering Department; Lake Washington SE. #229.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist to dry, very stiff siltstone; sand. [Bedrock]	0	 3/31/69			
	2				
	4		62		
	6				
	8		200		
	10				
	12				
	14		200		
	16				
T. D. 15'					

NUMBER: 82021

SITE: 53 rd and Bangor

GROUND ELEVATION: 250'

INVESTIGATOR: Seattle Engineering Department; Bangor-Renton Trans Line #200.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, loose silty sand with sand and silt layers. [Qvr]	0 2 4		10		
Wet to moist, firm, clean silty sand with sand and silt layers. [Qvr]	6 8 10		21		
Moist, very compact, clean medium-grained sand and silt with sand layers. [Qvr]	12 14		87+		
Moist, very compact, clean medium-grained sand with vertical silt seams. [Qvr]	16 18 20		77+		
Moist, very compact, clean medium- to coarse-grained sand. [Qvr]	22 24 26		50+		
Moist, very compact, clean medium-grained sand with silt layers at bottom. [Qvr]	28 30		77		
T. D. 30'					

NUMBER: 82022

SITE: 12' L and 5' S. of Pole #201.

GROUND ELEVATION: 300

INVESTIGATOR: Seattle Engineering Department; Bangor-enton Trans Line #201.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, loose silty sand with gravel. [Qvr]	0 2 4		6		
Moist, firm silty sand with gravel. [Qvr]	6 8 10		12		
Very moist, compact sand with silt and silty sand layers. [Qvr]	12 14 16		40		
Moist, very compact sand. [Qvr]	18 20 22		62		
Moist, compact sand. [Qvr]	24 26 28		35		
Very moist, compact sand. [Qvr]	30		50		
T. D. 30'					

NUMBER: 82025

SITE: Ploe #202 Trans Line and 56 th Avenue S..

GROUND ELEVATION: 275'

INVESTIGATOR: Seattle Engineering Department; Bangor-Renton Trans Line #202.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Wet, loose, clayey silty sand with gravel. [Qvr]	0 2 4	5/21/70 			
Wet, loose silty sand with gravel; clay and silt layers. [Qvr]	6 8		7		
Saturated, compact clean sand; layers of silty sand. [Qvr]	10 12 14		10		
Wet compact silty sand with gravel. [Qvt]	16 18		39		
Moist, very compact silty sand with coarse-grained sand and gravel. [Qvt]	20 22 24		49		
Saturated, very compact, silty coarse-grained sand with gravel. [Qvt]	26 28 30		50+		
T. D. 30'			93+		

NUMBER: 82026

SITE: Pole #204, Trans Line and 60 th Avenue S..

GROUND ELEVATION: 275'

INVESTIGATOR: Seattle Engineering Department; Bangor-Renton Trans Line #204.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, losse, very fine sandy silt; some wood fibers. [Qvr]	0 2 4	5/21/70 			
Moist to wet, loose, silty sand with clayey silt layers. [Qvr]	6 8		9		
Saturated, loose, clayey sandy silt with layers of clean medium-grained sand. [Qvr]	10 12 14		7		
Saturated, compact, clean medium-grained sand with 3" silt layer. [Qvr]	16 18		7		
Saturated, firm sandy silt to silty sand. [Qvr]	20 22 24		34		
Saturated, very compact medium-grained sand with some silt and gravel layers. [Qvr]	26 28 30		25		
T. D. 30'			50+		

NUMBER: 82027

SITE: 38 th Avenue and Norwood; 70' N. of centerline and 15' W. of centerline.

GROUND ELEVATION: 125'

INVESTIGATOR: Seattle Engineering Department; Lake Washington-E. Jefferson #3.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, loose silty sand. [Qva]	0 2 4	 12/18/69	8		
Moist to wet, firm sandy silt. [Qva]	6 8 10		21		
Wet to moist, medium dense, silty sand with clay. [Qva]	12 14 16		15		
Moist, very stiff, clayey silt with sand layers. [Qva]	18 20		29		
T. D. 20'					

NUMBER: 82028

SITE: 37 th Avenue and S. Columbia; 14' W. of centerline and 5' S. of centerline.

GROUND ELEVATION: 225'

INVESTIGATOR: Seattle Engineering Department; Lake Washington-E. Jefferson, #4.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, firm silt and sand. [Qva]	0 2 4		23		
Moist, compact silty sand. [Qva]	6 8 10		31		
Moist, very compact fine-grained sand. [Qva]	12 14 16		71		
Moist, compact fine-grained sand. [Qva]	18 20		46		
T. D. 20'					

NUMBER: 82029

SITE: 17' E. of centerline E. Spruce and Street end of E. Spruce. (ext. of 33 rd Ave E.)

GROUND ELEVATION: 225'

INVESTIGATOR: Seattle Engineering Department; Lake Washington-E Jefferson, #9.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, compact, fine- to medium-grained sand with gravel and silt layers. [Qva]	0 2 4		35		
Moist, very compact gravel with a trace of sand and silt. [Qg]	6 8 10		50+		
Moist, compact, fine- to coarse-grained sand. [Qg]	12 14		41		
Moist, compact, very fine to fine grained sand and silt; layers of medium-grained sand. [Qg]	16 18 20		43		
Moist, compact very fine to fine grained sand with a trace of silt. [Qg]	22 24 26		36		
T. D. 25'					

NUMBER: 82030

SITE: 32 nd Avenue and E. Terrace; 18' E. of centerline and 30' S. of centerline.

GROUND ELEVATION: 275'

INVESTIGATOR: Seattle Engineering Department; Lake Washington-E. Jefferson, #10.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Wet, loose sand with silt. [Qva]	0 2 4		9		
Moist, stiff sand and silt in layers. [Qva]	6 8 10		19		
Moist, very stiff silt with clay. [Qva]	12 14 16		38		
Moist, compact sand; layers of silt, clay, and sand. [Qva]	18 20		36		
T. D. 20'					

NUMBER: 82031

SITE: 1 st Avenue S. and SW Thistle (W. side)

GROUND ELEVATION: 25'

INVESTIGATOR: Seattle Engineering Department; SW Kenyon, #6.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, loose sand with a trace of gravel. [Qva]	0 2 4	 9/26/72	3		
Moist, loose silty sand with gravel. [Qva]	6 8		1		
Moist, firm silty sand with gravel. [Qva]	10 12 14 16		28		
	T. D. 15'				

NUMBER: 82032

SITE: SW Kenyon and Detroit Avenue SW.; 12' N. of centerline and 35' E. of centerline.

GROUND ELEVATION: 25'

INVESTIGATOR: Seattle Engineering Department; SW Kenyon Sewer, #8.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Wet, loose silt to very fine grained sand with fine-grained sand layers. [Qva]	0 2 4	 8/25/72	1		
Wet, loose silt with fine-grained sand layers. [Qva]	6 8		6		
Wet, firm fine-grained sand. [Qva]	10 12 14		11		
No recovery.	16 18				
Wet to moist, gravelly, silty sand with sand and silt layers. [Qva]	20 22 24		9 50		
Moist, firm silt with clay lumps. [Qva]	26 28 30		27		
	T. D. 30'				

NUMBER: 82033

SITE: 10 th Avenue SW. and SW. Cloverdale; 6' N. and 20' W. of centerline.

GROUND ELEVATION: 425'

INVESTIGATOR: Seattle Engineering Department; Highland Park Sewer, #5.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, very compact silty sand with gravel. [Qvt]	0	 1/27/71			
	2				
	4		50+		
Moist, very compact silty sand with gravel. [Qvt]	6				
	8		50+		
	10				
Wet to moist, very compact fine-grained sand with 2" silt layer. [Qva]	12				
	14		50		
Saturated, very compact fine-grained sand with silt. [Qva]	16				
	18				
	20		63		
Wet, very compact, very fine grained sand with silt. [Qva]	22				
	24		50+		
	26				
T. D. 25'					

NUMBER: 82034

SITE: 9 th Avenue SW. and SW. Barton; 45' S. and 20' E. of centerline.

GROUND ELEVATION: 425'

INVESTIGATOR: Seattle Engineering Department; Highland Park Sewer, #6.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Wet, compact fine-grained sand with a trace of gravel. [Qvr]	0				
	2				
	4		39		
Wet, firm fine-grained sand with a trace of gravel. [Qvr]	6				
	8		29		
	10				
Wet to moist, very compact, gravelly fine-grained sand. [Qvt]	12				
	14		50+		
Moist, very compact, gravelly fine-grained sand. [Qvt]	16				
	18				
	20		50+		
No recovery.	22				
	24		50+		
	26				
T. D. 25'					

NUMBER: 82035

SITE: Delridge Way SW. and Cambridge; NE Corner.

GROUND ELEVATION: 400'

INVESTIGATOR: Seattle Engineering Department; Del. Duw. Trans Line, #24A.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, compact gravelly sand. [Qvt]	0				
	2				
	4		39		
Moist, compact gravelly sand. [Qvt]	6				
	8		49		
Moist, compact gravelly sand. [Qvt]	10				
	12				
	14		31		
Moist, very compact sand with a trace of gravel. [Qva]	16				
	18				
	20		60		
Moist, compact fine-grained sand. [Qva]	22				
	24		31		
	26				
Moist, very compact fine-grained sand. [Qva]	28				
	30		53		
T. D. 30'					

NUMBER: 82036

SITE: Delridge Way SW and 21st Svenue SW, 270' N. of Henderson.

GROUND ELEVATION: 375'

INVESTIGATOR: Seattle Engineering Department; hole # 28A.



Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, very compact; silt sand with gravel. [Qvt]	0				
	2				
	4		50+		
Moist, very stiff; silt. [Qva]	6				
	8		31		
Moist, firm; sand with silt layers. [Qva]	10				
	12				
	14		24		
	16				
	18		67		
Moist, very compact; sand with gravel layers. [Qva]	20				
	22				
	24		68		
	26				
	28				
	30		68		
T.D. 30'					

NUMBER: 82037

SITE: 8' N. of Plan Location, 1 st SW and 98 th(?).

GROUND ELEVATION: 275'

INVESTIGATOR: Seattle Engineering Department; Del. - Duw. Trans Line, #13.




Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Wet, loose sand. [Qvr]	0	10/24/69 			
	2				
	4		6		
Wet, firm sand. [Qvr]	6				
	8		11		
	10				
Wet, firm sand with gravel. [Qvr]	12	10/24/69 			
	14		21		
	16				
Saturated to wet, firm sand with gravel. [Qvr]	18		13		
	20				
No recovery.	22		45		
	24				
T. D. 23'					

NUMBER: 82038

SITE: 4 th Avenue SW and SW 98 th Street; 34' S. and 36' E. of centerline.

GROUND ELEVATION: 387'

INVESTIGATOR: Seattle Engineering Department; Del. - Duw. Trans Line, #14S.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, loose, silty, gravelly sand. [Qvr]	0	2/19/70 			
	2				
	4		5		
Wet, loose, silty sand with gravel. [Qvr]	6				
	8		10		
	10				
Wet, very compact, gravelly sand. [Qvt]	12	2/19/70 			
	14		78		
	16				
Moist, very compact, silty sand with gravel. [Qva]	18				
	20		56		
Moist, very compact, fine-grained sand with silt layers. [Qva]	22				
	24		86		
	26	2/19/70 			
Wet to moist, very compact, fine-grained sand with silt layers and organic material. [Qn]	28				
	30		50+		
T. D. 30'					

NUMBER: 82039

SITE: 30' W. of centerline rainier Avenue S. and 70' S. of centerline S. Frontenac.

GROUND ELEVATION: 100'

INVESTIGATOR: Seattle Engineering Department; Lake Washington SE. 8W, #9-8W.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, loose, sand with gravel and silt. [Qal]	0	6/12/69 ▽			
	2				
	4		7		
No recovery.	6				
	8		3		
Gravel and wood. [Qal]	10				
	12				
	14		12+		
Moist, medium dense, silt with wood and a trace of sand. [Qal]	16				
	18				
Moist, stiff, silt with a trace of sand. [Bedrock]	20		15		
	22				
	24		21		
	26				
Moist, very stiff silt. [Bedrock]	28				
	30		28		
T. D. 30'					

NUMBER: 82040

SITE: 20' E. of centerline 37 th S. and 75' N. of centerline S. Myrtle.

GROUND ELEVATION: 125'

INVESTIGATOR: Seattle Engineering Department; Lake Washington SE. #4.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, medium dense, clayey, organic silt. [Qal]	0	3/23/70 ▽			
	2				
	4		12		
Moist, medium dense, silty clay with sandy silt layers. [Qa]	6				
	8		6		
Moist, compact, silty fine-grained sand with a trace of gravel. [Qvr]	10				
	12				
	14		34		
Moist, very stiff, very fine grained sandy silt with sand layers. [Qvr]	16				
	18				
	20		27		
Moist, very stiff, clayey silt (siltstone). [Bedrock]	22				
	24		50+		
	26				
Moist, very stiff, clayey silt (siltstone). [Bedrock]	28				
	30		50+		
T. D. 30'					

NUMBER: 82041

SITE: 25' E. of centerline 37 th S. and S. Wilson Street.

GROUND ELEVATION: 125'

INVESTIGATOR: Seattle Engineering Department; Lake Washington SE. #4.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, medium dense, silty clay with organic material. [Qal]	0 2 4	3/23/70 #1	6		
Saturated, loose, silty sand. [Qvr]	6 8		5		
Wet, soft, sandy, silty clay. [Qvr]	10 12 14		2		
Wet, soft, clay with a trace of gravel and sand layers. [Qvr]	16 18				
Moist, very stiff silt and clay (siltstone). [Bedrock]	20 22 24		2		
Moist, very stiff, silt and clay (siltstone) [Bedrock]	26 28 30		50+		
T. D. 30'			50+		

NUMBER: 82044

SITE: 150' E. of 16 th Avenue S. and 185' S. of S. Bradford; Station 11+50.

GROUND ELEVATION: 325'

INVESTIGATOR: Seattle Engineering Department; Beacon Reservoir, #3.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, loose, silty fine-grained sand with a trace of organic material. [af]	0 2 4		4		
Moist, to wet, very compact, silty sand with gravel. [Qvr]	6 8		63		
Moist to wet, very compact, silty sand with gravel. [Qvt]	10 12 14		77		
Moist, very compact, sand with silt and gravel. [Qvt]	16 18 20		100+		
Moist, very compact, sand with silt and gravel. [Qvt]	22 24 26		100+		
T. D. 25'					

NUMBER: 82045

SITE: 15' W. of centerline 24 th Avenue S. and 15' S. of centerline S. Hudson Street.

GROUND ELEVATION: 325'

INVESTIGATOR: Seattle Engineering Department; Lake Washington S. Area 5, #505.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, very stiff, silt with a trace of sand. [Qvr]	0				
	2				
	4		57		
Moist, very compact, sand (sandstone). [Bedrock]	6				
	8		73		
	10				
Dry very compact, sand (sanstone). [Bedrock]	12				
	14		50+		
	16				
T. D. 15'					

NUMBER: 82046

SITE: 25' S. of centerline S. Dawson and 3' E. of centerline 27 th Avenue S..

GROUND ELEVATION: 325'

INVESTIGATOR: Seattle Engineering Department; Lake Washington S. Area 5, #506.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, firm sand with silt and gravel. [Qvr]	0				
	2				
	4		30		
Moist, very stiff silt; some sand. [Qvr]	6				
	8		35		
	10				
Moist, very stiff silt with sand layers. [Qvr]	12				
	14		42		
	16				
T. D. 15'					

NUMBER: **82047**

SITE: 15' E. of centerline Bowen Pl. S. and 50' N. of centerline Dawson Street.

GROUND ELEVATION: 200'

INVESTIGATOR: Seattle Engineering Department; Lake Washington SE. 8W, #1-8W.


Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, very stiff silt; trace of sand and gravel. [Qvr]	0 2 4	 6/16/69	26		
Moist, compact sand; some silt (sandstone). [Bedrock]	6 8 10		50+		
Moist, very compact sand; some silt (sandstone) [Bedrock]	12 14 16		50+		
T. D. 15'					

NUMBER: **82048**

SITE: 35' E. of centerline 47 th Avenue S. and 20' S. of centerline S. Dawson Street.

GROUND ELEVATION: 200'

INVESTIGATOR: Seattle Engineering Department; Lake Washington SE. 8W, #2-8W.

Lithology	Depth (feet)	Water Level	Blow Count (blows/ft)	Water Content (percent)	Atterberg Limits (percent)
Moist, medium dense silt with sand and a trace of siltstone. [Qal]	0 2 4	 6/16/69	6		
Moist, medium dense silt with sand and a trace of siltstone and organic material. [Qvr]	6 8 10		6		
Moist, medium dense silt with clay, sand, and a trace of organic material. [Qvr]	12 14 16		10		
Moist, very stiff silt with sand and a trace of gravel. [Qvr]	18 20		52		
T. D. 20'					