

HIGHWAY CONSTRUCTION
km 1882.0 to km 1894.3
ALASKA HIGHWAY #1
YUKON, 1994
VOLUME 2
GRAIN SIZE SUMMARIES

This Data Package prepared for project viewing:

April, 1995

Transportation Engineering Branch
Geotechnical Services
201 Range Road
Whitehorse, Yukon

GR-01-148

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 245-54
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1894+200 O/S 5M RT
 LOGGED BY: TF DATE COMPLETED: 93.09.11

FIELD NO: 127
 LAB NO: 1076
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 128
 LAB NO: 1077
 DEPTH: 1.9-2.1
 TYPE: AUGER

FIELD NO: 129
 LAB NO: 1078
 DEPTH: 4.6-4.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	81
12.5	75
10.0	68
5.0	55
2.5	47
2.0	--
1.25	40
0.840	--
0.630	31
0.420	--
0.315	21
0.160	14
0.150	--
0.080	11

M.C. (%) : 8

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 45
 % SAND: 45
 % FINES: 11

CLASSIFICATION:
 POORLY GRADED
 SAND WITH SILT &
 GRAVEL (SP-SM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	98
10.0	96
5.0	89
2.5	85
2.0	--
1.25	82
0.840	--
0.630	79
0.420	--
0.315	75
0.160	66
0.150	--
0.080	46

M.C. (%) : 20

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 11
 % SAND: 43
 % FINES: 46

CLASSIFICATION:
 SILTY SAND (SM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	65
20.0	55
12.5	41
10.0	37
5.0	30
2.5	27
2.0	--
1.25	25
0.840	--
0.630	22
0.420	--
0.315	20
0.160	17
0.150	--
0.080	13

M.C. (%) : 6

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 70
 % SAND: 17
 % FINES: 13

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 245-55
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1894+100
 LOGGED BY: TF DATE COMPLETED: 93.09.11

FIELD NO: 130
 LAB NO: 1079
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 131
 LAB NO: 1080
 DEPTH: 2.9-3.1
 TYPE: AUGER

FIELD NO: 132
 LAB NO: 1081
 DEPTH: 4.8-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	61
20.0	59
12.5	52
10.0	48
5.0	37
2.5	30
2.0	--
1.25	24
0.840	--
0.630	19
0.420	--
0.315	13
0.160	9
0.150	--
0.080	7

M.C. (%) : 9

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 63
 % SAND: 30
 % FINES: 7

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	85
20.0	68
12.5	50
10.0	43
5.0	28
2.5	21
2.0	--
1.25	16
0.840	--
0.630	13
0.420	--
0.315	9
0.160	7
0.150	--
0.080	5

M.C. (%) : 4

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 72
 % SAND: 23
 % FINES: 5

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	85
12.5	63
10.0	55
5.0	39
2.5	31
2.0	--
1.25	25
0.840	--
0.630	20
0.420	--
0.315	16
0.160	13
0.150	--
0.080	10

M.C. (%) : 8

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 61
 % SAND: 29
 % FINES: 10

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 245-56
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1894+000 O/S 7M RT
 LOGGED BY: TF DATE COMPLETED: 93.09.11

FIELD NO: 133
 LAB NO: 1082
 DEPTH: 1.2-1.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	98
2.0	--
1.25	97
0.840	--
0.630	95
0.420	--
0.315	93
0.160	90
0.150	--
0.080	84

M.C. (%) : 39

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 16
 % FINES: 84

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 245-57
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1893+900
 LOGGED BY: TF DATE COMPLETED: 93.09.11

FIELD NO: 134
 LAB NO: 1083
 DEPTH: 0.9-1.1
 TYPE: AUGER
 ORGANIC

FIELD NO: 135
 LAB NO: 1084
 DEPTH: 4.2-4.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	95
10.0	91
5.0	81
2.5	75
2.0	--
1.25	68
0.840	--
0.630	63
0.420	--
0.315	56
0.160	48
0.150	--
0.080	40

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	94
10.0	88
5.0	77
2.5	71
2.0	--
1.25	65
0.840	--
0.630	61
0.420	--
0.315	56
0.160	49
0.150	--
0.080	41

M.C. (%) : 43

M.C. (%) : 26

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 19
 % SAND: 41
 % FINES: 40

% GRAVEL: 23
 % SAND: 36
 % FINES: 41

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 245-58
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1893+800 O/S 6M RT
 LOGGED BY: TF DATE COMPLETED: 93.09.11

FIELD NO: 136
 LAB NO: 1085
 DEPTH: 0.9-1.1
 TYPE: AUGER

FIELD NO: 137
 LAB NO: 1086
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	98
2.0	--
1.25	96
0.840	--
0.630	93
0.420	--
0.315	90
0.160	83
0.150	--
0.080	69

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	98
5.0	97
2.5	95
2.0	--
1.25	92
0.840	--
0.630	88
0.420	--
0.315	84
0.160	78
0.150	--
0.080	68

M.C. (%): 44

M.C. (%): 31

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 31
 % FINES: 69

% GRAVEL: 3
 % SAND: 29
 % FINES: 68

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 245-59
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1893+700 O/S 5M RT
 LOGGED BY: TF DATE COMPLETED: 93.09.11

FIELD NO: 138
 LAB NO: 1087
 DEPTH: 0.9-1.1
 TYPE: AUGER

FIELD NO: 139
 LAB NO: 1088
 DEPTH: 4.8-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	77
12.5	68
10.0	64
5.0	55
2.5	51
2.0	--
1.25	46
0.840	--
0.630	41
0.420	--
0.315	35
0.160	27
0.150	--
0.080	20

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	98
2.5	97
2.0	--
1.25	96
0.840	--
0.630	95
0.420	--
0.315	94
0.160	93
0.150	--
0.080	91

M.C. (%): 15

M.C. (%): 47

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: TRACE

% GRAVEL: 45
 % SAND: 35
 % FINES: 20

% GRAVEL: 2
 % SAND: 8
 % FINES: 91

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILT (ML)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 245-60
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1893+600 O/S 4M RT
 LOGGED BY: TF DATE COMPLETED: 93.09.11

FIELD NO: 140
 LAB NO: 1089
 DEPTH: 0.9-1.1
 TYPE: AUGER
 ORGANIC

FIELD NO: 141
 LAB NO: 1090
 DEPTH: 2.4-2.6
 TYPE: AUGER

FIELD NO: 142
 LAB NO: 1091
 DEPTH: 4.8-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

SIEVE SIZE	PERCENT PASSING
------------	-----------------

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	98
2.0	--
1.25	96
0.840	--
0.630	93
0.420	--
0.315	86
0.160	68
0.150	--
0.080	42

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	98
0.160	96
0.150	--
0.080	92

M.C. (%): 113

M.C. (%): 25

M.C. (%): 58

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: 0
 % SAND: 58
 % FINES: 42

% GRAVEL: 0
 % SAND: 8
 % FINES: 92

CLASSIFICATION:

CLASSIFICATION:
SILTY SAND (SM)

CLASSIFICATION:
SILT (ML)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 245-61
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1893+500 O/S 10M RT
 LOGGED BY: TF DATE COMPLETED: 93.09.11

FIELD NO: 143
 LAB NO: 1092
 DEPTH: 0.9-1.1
 TYPE: AUGER
 ORGANIC

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%) : 95

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 245-62
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1893+400 O/S 10M RT
 LOGGED BY: TF DATE COMPLETED: 93.09.11

FIELD NO: 144
 LAB NO: 1093
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANIC

FIELD NO: 145
 LAB NO: 1094
 DEPTH: 3.2-3.4
 TYPE: AUGER

FIELD NO: 146
 LAB NO: 1095
 DEPTH: 4.0-4.2
 TYPE: AUGER

FIELD NO: 147
 LAB NO: 1096
 DEPTH: 4.8-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	94
2.0	--
1.25	88
0.840	--
0.630	84
0.420	--
0.315	80
0.160	70
0.150	--
0.080	56

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	91
10.0	85
5.0	76
2.5	70
2.0	--
1.25	66
0.840	--
0.630	63
0.420	--
0.315	60
0.160	54
0.150	--
0.080	49

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	97
0.160	96
0.150	--
0.080	94

M.C. (%): 75

M.C. (%): 49

M.C. (%): 54

M.C. (%): 128

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: 35.2
 PLASTIC: 26.0
 P.I.: 9.2

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: 0
 % SAND: 44
 % FINES: 56

% GRAVEL: 24
 % SAND: 27
 % FINES: 49

% GRAVEL: 0
 % SAND: 6
 % FINES: 94

CLASSIFICATION:

CLASSIFICATION:
SANDY SILT (ML)

CLASSIFICATION:
SILTY SAND WITH
GRAVEL (SM)

CLASSIFICATION:
SILT (ML)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 245-63
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1892+300
 LOGGED BY: TF DATE COMPLETED: 93.09.12

FIELD NO: 148
 LAB NO: 1097
 DEPTH: 1.3-1.5
 TYPE: AUGER
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	89
10.0	87
5.0	83
2.5	79
2.0	--
1.25	75
0.840	--
0.630	71
0.420	--
0.315	63
0.160	54
0.150	--
0.080	46

M.C. (%): 52

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 17
 % SAND: 37
 % FINES: 46

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

FIELD NO: 149
 LAB NO: 1098
 DEPTH: 4.8-5.0
 TYPE: AUGER
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	78
12.5	75
10.0	72
5.0	67
2.5	63
2.0	--
1.25	60
0.840	--
0.630	56
0.420	--
0.315	52
0.160	46
0.150	--
0.080	38

M.C. (%): 40

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 33
 % SAND: 29
 % FINES: 38

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 245-64
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1893+275 O/S RT
 LOGGED BY: TF DATE COMPLETED: 93.09.12

FIELD NO: 150
 LAB NO: 1099
 DEPTH: 1.7-1.9
 TYPE: AUGER

FIELD NO: 151
 LAB NO: 1100
 DEPTH: 3.1-3.3
 TYPE: AUGER

FIELD NO: 152
 LAB NO: 1101
 DEPTH: 4.3-4.5
 TYPE: AUGER

FIELD NO: 153
 LAB NO: 1102
 DEPTH: 5.9-6.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	86
12.5	82
10.0	78
5.0	70
2.5	64
2.0	--
1.25	59
0.840	--
0.630	55
0.420	--
0.315	50
0.160	44
0.150	--
0.080	37

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	95
12.5	91
10.0	90
5.0	84
2.5	79
2.0	--
1.25	74
0.840	--
0.630	70
0.420	--
0.315	66
0.160	61
0.150	--
0.080	56

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	98
5.0	94
2.5	90
2.0	--
1.25	84
0.840	--
0.630	79
0.420	--
0.315	74
0.160	66
0.150	--
0.080	58

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	91
12.5	88
10.0	83
5.0	69
2.5	61
2.0	--
1.25	55
0.840	--
0.630	52
0.420	--
0.315	48
0.160	43
0.150	--
0.080	38

M.C. (%): 27

M.C. (%): 26

M.C. (%): 22

M.C. (%): 16

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: 20.3
 PLASTIC: 15.7
 P.I.: 4.6

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 30
 % SAND: 32
 % FINES: 37

% GRAVEL: 16
 % SAND: 28
 % FINES: 56

% GRAVEL: 6
 % SAND: 36
 % FINES: 58

% GRAVEL: 31
 % SAND: 31
 % FINES: 38

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SANDY SILT WITH
 GRAVEL (ML)

CLASSIFICATION:
 SANDY SILTY CLAY
 (CL-ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 245-65
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1893+225 O/S RT
 LOGGED BY: TF DATE COMPLETED: 93.09.12

FIELD NO: 154
 LAB NO: 1103
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 155
 LAB NO: 1104
 DEPTH: 3.8-4.0
 TYPE: AUGER

FIELD NO: 156
 LAB NO: 1105
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	89
12.5	78
10.0	72
5.0	59
2.5	49
2.0	--
1.25	41
0.840	--
0.630	36
0.420	--
0.315	30
0.160	25
0.150	--
0.080	20

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	87
10.0	80
5.0	68
2.5	59
2.0	--
1.25	53
0.840	--
0.630	48
0.420	--
0.315	42
0.160	36
0.150	--
0.080	31

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	89
10.0	85
5.0	72
2.5	63
2.0	--
1.25	56
0.840	--
0.630	50
0.420	--
0.315	44
0.160	37
0.150	--
0.080	32

M.C. (%): 29

M.C. (%): 14

M.C. (%): 13

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 41
 % SAND: 39
 % FINES: 20

% GRAVEL: 32
 % SAND: 37
 % FINES: 31

% GRAVEL: 28
 % SAND: 41
 % FINES: 32

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 245-66
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1893+150 O/S RT
 LOGGED BY: TF DATE COMPLETED: 93.09.12

FIELD NO: 157
 LAB NO: 1106
 DEPTH: 0.9-1.1
 TYPE: AUGER

FIELD NO: 158
 LAB NO: 1107
 DEPTH: 3.4-3.6
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	98
5.0	94
2.5	90
2.0	--
1.25	86
0.840	--
0.630	81
0.420	--
0.315	75
0.160	64
0.150	--
0.080	51

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	97
0.840	--
0.630	96
0.420	--
0.315	93
0.160	89
0.150	--
0.080	82

M.C. (%): 63

M.C. (%): 111

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 6
 % SAND: 43
 % FINES: 51

% GRAVEL: 0
 % SAND: 18
 % FINES: 82

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 245-67
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1893+075 O/S RT
 LOGGED BY: TF DATE COMPLETED: 93.09.14

FIELD NO: 159
 LAB NO: 1108
 DEPTH: 1.2-1.4
 TYPE: AUGER
 ORGANIC

FIELD NO: 160
 LAB NO: 1109
 DEPTH: 2.2-2.4
 TYPE: AUGER

FIELD NO: 161
 LAB NO: 1110
 DEPTH: 4.0-4.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	96
2.5	82
2.0	--
1.25	71
0.840	--
0.630	61
0.420	--
0.315	51
0.160	42
0.150	--
0.080	36

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	90
10.0	87
5.0	81
2.5	75
2.0	--
1.25	70
0.840	--
0.630	66
0.420	--
0.315	60
0.160	55
0.150	--
0.080	51

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	93
2.0	--
1.25	89
0.840	--
0.630	83
0.420	--
0.315	74
0.160	64
0.150	--
0.080	53

M.C. (%): 84

M.C. (%): 69

M.C. (%): 58

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 4
 % SAND: 60
 % FINES: 36

% GRAVEL: 19
 % SAND: 30
 % FINES: 51

% GRAVEL: 0
 % SAND: 47
 % FINES: 53

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SANDY SILT WITH
 GRAVEL (ML)

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 245-68
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1893+000 O/S RT
 LOGGED BY: TF DATE COMPLETED: 93.09.14

FIELD NO: 162
 LAB NO: 1111
 DEPTH: 1.1-1.3
 TYPE: AUGER

FIELD NO: 163
 LAB NO: 1112
 DEPTH: 2.0-2.1
 TYPE: AUGER

FIELD NO: 164
 LAB NO: 1113
 DEPTH: 3.0-3.2
 TYPE: AUGER

FIELD NO: 165
 LAB NO: 1114
 DEPTH: 3.9-4.1
 TYPE: AUGER
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	97
10.0	92
5.0	75
2.5	61
2.0	--
1.25	50
0.840	--
0.630	43
0.420	--
0.315	36
0.160	30
0.150	--
0.080	25

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	95
10.0	92
5.0	84
2.5	75
2.0	--
1.25	68
0.840	--
0.630	62
0.420	--
0.315	56
0.160	47
0.150	--
0.080	38

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	88
20.0	79
12.5	69
10.0	64
5.0	53
2.5	49
2.0	--
1.25	45
0.840	--
0.630	41
0.420	--
0.315	37
0.160	32
0.150	--
0.080	27

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	79
20.0	67
12.5	51
10.0	47
5.0	41
2.5	38
2.0	--
1.25	35
0.840	--
0.630	33
0.420	--
0.315	29
0.160	25
0.150	--
0.080	21

M.C. (%): 24

M.C. (%): 42

M.C. (%): 25

M.C. (%): 53

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 25
 % SAND: 51
 % FINES: 25

% GRAVEL: 16
 % SAND: 46
 % FINES: 38

% GRAVEL: 47
 % SAND: 26
 % FINES: 27

% GRAVEL: 59
 % SAND: 20
 % FINES: 21

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 245-68
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1893+000 O/S RT
 LOGGED BY: TF DATE COMPLETED: 93.09.14

FIELD NO: 166
 LAB NO: 1115
 DEPTH: 5.9-6.1
 TYPE: AUGER

FIELD NO: 167
 LAB NO: 1116
 DEPTH: 7.5-7.7
 TYPE: AUGER

FIELD NO: 168
 LAB NO: 1117
 DEPTH: 9.1-9.3
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	98
5.0	87
2.5	69
2.0	--
1.25	56
0.840	--
0.630	47
0.420	--
0.315	39
0.160	32
0.150	--
0.080	26

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	88
12.5	64
10.0	60
5.0	55
2.5	53
2.0	--
1.25	48
0.840	--
0.630	43
0.420	--
0.315	38
0.160	33
0.150	--
0.080	27

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	92
5.0	76
2.5	65
2.0	--
1.25	56
0.840	--
0.630	50
0.420	--
0.315	43
0.160	37
0.150	--
0.080	31

M.C. (%): 10

M.C. (%): 16

M.C. (%): 14

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 13
 % SAND: 61
 % FINES: 26

% GRAVEL: 45
 % SAND: 28
 % FINES: 27

% GRAVEL: 24
 % SAND: 44
 % FINES: 31

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 245-69
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1892+900
 LOGGED BY: TF DATE COMPLETED: 93.09.15

FIELD NO: 169
 LAB NO: 1118
 DEPTH: 0.9-1.1
 TYPE: AUGER
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	55
31.5	--
25.0	47
20.0	47
12.5	43
10.0	40
5.0	36
2.5	34
2.0	--
1.25	32
0.840	--
0.630	30
0.420	--
0.315	26
0.160	22
0.150	--
0.080	19

M.C. (%): 27

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 64
 % SAND: 17
 % FINES: 19

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 245-70
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1892+825
 LOGGED BY: TF DATE COMPLETED: 93.09.15

FIELD NO: 170
 LAB NO: 1119
 DEPTH: 1.0-1.2
 TYPE: AUGER
 ORGANIC

FIELD NO: 171
 LAB NO: 1120
 DEPTH: 2.0-2.2
 TYPE: AUGER
 ORGANIC

FIELD NO: 172
 LAB NO: 1121
 DEPTH: 3.4-3.6
 TYPE: AUGER

FIELD NO: 173
 LAB NO: 1122
 DEPTH: 4.8-5.0
 TYPE: AUGER
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	97
5.0	96
2.5	91
2.0	--
1.25	86
0.840	--
0.630	82
0.420	--
0.315	74
0.160	62
0.150	--
0.080	54

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	97
0.420	--
0.315	91
0.160	81
0.150	--
0.080	69

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	89
2.0	--
1.25	77
0.840	--
0.630	70
0.420	--
0.315	63
0.160	54
0.150	--
0.080	41

M.C. (%) : 10

M.C. (%) : 103

M.C. (%) : 82

M.C. (%) : 107

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 4
 % SAND: 42
 % FINES: 54

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: 0
 % SAND: 31
 % FINES: 69

% GRAVEL: 0
 % SAND: 59
 % FINES: 41

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 245-71
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1892+650 O/S 25M LT
 LOGGED BY: TF DATE COMPLETED: 93.09.15

FIELD NO: 174
 LAB NO: 1123
 DEPTH: 0.9-1.1
 TYPE: AUGER

FIELD NO: 175
 LAB NO: 1124
 DEPTH: 3.0-3.2
 TYPE: AUGER

FIELD NO: 176
 LAB NO: 1125
 DEPTH: 3.9-4.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	98
10.0	98
5.0	96
2.5	95
2.0	--
1.25	93
0.840	--
0.630	86
0.420	--
0.315	45
0.160	11
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	87
20.0	83
12.5	78
10.0	76
5.0	73
2.5	71
2.0	--
1.25	68
0.840	--
0.630	60
0.420	--
0.315	34
0.160	15
0.150	--
0.080	9

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	98
2.0	--
1.25	98
0.840	--
0.630	96
0.420	--
0.315	88
0.160	65
0.150	--
0.080	40

M.C. (%): 5

M.C. (%): 6

M.C. (%): 18

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 4
 % SAND: 93
 % FINES: 3

% GRAVEL: 27
 % SAND: 64
 % FINES: 9

% GRAVEL: 0
 % SAND: 60
 % FINES: 40

CLASSIFICATION:
 POORLY GRADED
 SAND (SP)

CLASSIFICATION:
 WELL-GRADED SAND
 WITH SILT &
 GRAVEL (SW-SM)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 245-72
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1892+675 O/S 15M LT
 LOGGED BY: TF DATE COMPLETED: 93.09.15

FIELD NO: 177
 LAB NO: 1126
 DEPTH: 0.9-1.1
 TYPE: AUGER

FIELD NO: 178
 LAB NO: 1127
 DEPTH: 2.9-3.1
 TYPE: AUGER

FIELD NO: 179
 LAB NO: 1128
 DEPTH: 4.8-5.5
 TYPE: AUGER

FIELD NO: 180
 LAB NO: 1129
 DEPTH: 7.4-7.6
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	93
12.5	93
10.0	93
5.0	93
2.5	93
2.0	--
1.25	92
0.840	--
0.630	92
0.420	--
0.315	91
0.160	64
0.150	--
0.080	26

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	100
0.420	--
0.315	100
0.160	58
0.150	--
0.080	9

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	100
0.420	--
0.315	98
0.160	67
0.150	--
0.080	26

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	100
0.420	--
0.315	99
0.160	65
0.150	--
0.080	26

M.C. (%) : 7

M.C. (%) : 6

M.C. (%) : 21

M.C. (%) : 19

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 7
 % SAND: 66
 % FINES: 26

% GRAVEL: 0
 % SAND: 91
 % FINES: 9

% GRAVEL: 0
 % SAND: 74
 % FINES: 26

% GRAVEL: 0
 % SAND: 74
 % FINES: 26

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 POORLY GRADED
 SAND WITH SILT
 (SP-SM)

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 245-72
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1892+675 O/S 15M LT
 LOGGED BY: TF DATE COMPLETED: 93.09.15

FIELD NO: 181
 LAB NO: 1130
 DEPTH: 8.8-9.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	94
0.160	63
0.150	--
0.080	34

M.C.(%) : 18

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 66
 % FINES: 34

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 245-73
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1892+630 O/S 15M LT
 LOGGED BY: TF DATE COMPLETED: 93.09.15

FIELD NO: 182
 LAB NO: 1131
 DEPTH: 0.9-1.1
 TYPE: AUGER

FIELD NO: 183
 LAB NO: 1132
 DEPTH: 3.0-3.2
 TYPE: AUGER

FIELD NO: 184
 LAB NO: 1133
 DEPTH: 4.9-5.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	100
0.420	--
0.315	100
0.160	96
0.150	--
0.080	43

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	100
0.420	--
0.315	99
0.160	65
0.150	--
0.080	26

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	100
0.420	--
0.315	100
0.160	92
0.150	--
0.080	51

M.C. (%) : 8

M.C. (%) : 9

M.C. (%) : 23

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 57
 % FINES: 43

% GRAVEL: 0
 % SAND: 74
 % FINES: 26

% GRAVEL: 0
 % SAND: 49
 % FINES: 51

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 245-74
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1892+540 O/S 12M RT
 LOGGED BY: TF DATE COMPLETED: 93.09.15

FIELD NO: 185
 LAB NO: 1134
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 186
 LAB NO: 1135
 DEPTH: 8.8-9.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	100
0.840	--
0.630	100
0.420	--
0.315	94
0.160	48
0.150	--
0.080	23

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	99
0.840	--
0.630	99
0.420	--
0.315	97
0.160	64
0.150	--
0.080	31

M.C. (%) : 21

M.C. (%) : 18

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 77
 % FINES: 23

% GRAVEL: 0
 % SAND: 69
 % FINES: 31

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 246-75
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1892+690 O/S 10M RT
 LOGGED BY: TF DATE COMPLETED: 93.09.15

FIELD NO: 187
 LAB NO: 1136
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 188
 LAB NO: 1137
 DEPTH: 4.8-5.0
 TYPE: AUGER

FIELD NO: 189
 LAB NO: 1138
 DEPTH: 9.8-10.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	92
0.160	64
0.150	--
0.080	35

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	99
0.420	--
0.315	98
0.160	93
0.150	--
0.080	70

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	96
0.160	84
0.150	--
0.080	53

M.C. (%) : 20

M.C. (%) : 23

M.C. (%) : 24

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 65
 % FINES: 35

% GRAVEL: 0
 % SAND: 30
 % FINES: 70

% GRAVEL: 0
 % SAND: 47
 % FINES: 53

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 246-76
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1892+590
 LOGGED BY: TF DATE COMPLETED: 93.09.16

FIELD NO: 189
 LAB NO: 1139
 DEPTH: 0.9-1.1
 TYPE: AUGER
 ORGANIC

FIELD NO: 190
 LAB NO: 1140
 DEPTH: 2.0-2.2
 TYPE: AUGER

FIELD NO: 191
 LAB NO: 1141
 DEPTH: 3.4-3.6
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	94
5.0	80
2.5	65
2.0	--
1.25	57
0.840	--
0.630	50
0.420	--
0.315	45
0.160	39
0.150	--
0.080	35

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	93
12.5	82
10.0	76
5.0	67
2.5	62
2.0	--
1.25	58
0.840	--
0.630	56
0.420	--
0.315	52
0.160	51
0.150	--
0.080	45

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	81
20.0	75
12.5	70
10.0	65
5.0	52
2.5	44
2.0	--
1.25	39
0.840	--
0.630	33
0.420	--
0.315	26
0.160	21
0.150	--
0.080	16

M.C. (%) : 55

M.C. (%) : 36

M.C. (%) : 12

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 20
 % SAND: 45
 % FINES: 35

% GRAVEL: 33
 % SAND: 22
 % FINES: 45

% GRAVEL: 48
 % SAND: 36
 % FINES: 16

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 246-77
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1892+500
 LOGGED BY: TF DATE COMPLETED: 93.09.16

FIELD NO: 192
 LAB NO: 1142
 DEPTH: 0.9-1.1
 TYPE: AUGER

FIELD NO: 193
 LAB NO: 1143
 DEPTH: 1.9-2.1
 TYPE: AUGER

FIELD NO: 194
 LAB NO: 1144
 DEPTH: 4.2-4.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	75
20.0	64
12.5	53
10.0	46
5.0	34
2.5	27
2.0	--
1.25	21
0.840	--
0.630	17
0.420	--
0.315	12
0.160	6
0.150	--
0.080	4

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	87
20.0	70
12.5	41
10.0	30
5.0	17
2.5	13
2.0	--
1.25	10
0.840	--
0.630	9
0.420	--
0.315	6
0.160	4
0.150	--
0.080	2

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	95
10.0	95
5.0	94
2.5	94
2.0	--
1.25	92
0.840	--
0.630	86
0.420	--
0.315	60
0.160	27
0.150	--
0.080	14

M.C. (%): 2

M.C. (%): 2

M.C. (%): 6

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 66
 % SAND: 30
 % FINES: 4

% GRAVEL: 83
 % SAND: 15
 % FINES: 2

% GRAVEL: 6
 % SAND: 80
 % FINES: 14

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SAND
 (GP)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 246-78
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1892+400 O/S 5M RT
 LOGGED BY: TF DATE COMPLETED: 93.09.16

FIELD NO: 195
 LAB NO: 1145
 DEPTH: 0.9-1.1
 TYPE: AUGER

FIELD NO: 196
 LAB NO: 1146
 DEPTH: 2.4-2.6
 TYPE: AUGER

FIELD NO: 197
 LAB NO: 1147
 DEPTH: 4.1-4.3
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	94
2.0	--
1.25	91
0.840	--
0.630	90
0.420	--
0.315	77
0.160	25
0.150	--
0.080	6

M.C. (%) : 3

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 94
 % FINES: 6

CLASSIFICATION:
 POORLY GRADED
 SAND WITH SILT
 (SP-SM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	94
2.0	--
1.25	92
0.840	--
0.630	91
0.420	--
0.315	80
0.160	21
0.150	--
0.080	4

M.C. (%) : 3

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 96
 % FINES: 4

CLASSIFICATION:
 POORLY GRADED
 SAND (SP)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	100
2.5	98
2.0	--
1.25	95
0.840	--
0.630	90
0.420	--
0.315	75
0.160	30
0.150	--
0.080	10

M.C. (%) : 4

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 90
 % FINES: 10

CLASSIFICATION:
 POORLY GRADED
 SAND WITH SILT
 (SP-SM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 246-79
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1892+300 O/S 10M RT
 LOGGED BY: TF DATE COMPLETED: 93.09.16

FIELD NO: 198
 LAB NO: 1148
 DEPTH: 1.0-1.2
 TYPE: AUGER
 ORGANIC

FIELD NO: 199
 LAB NO: 1149
 DEPTH: 2.6-2.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	98
2.5	90
2.0	--
1.25	84
0.840	--
0.630	78
0.420	--
0.315	69
0.160	56
0.150	--
0.080	52

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	94
12.5	65
10.0	53
5.0	39
2.5	35
2.0	--
1.25	33
0.840	--
0.630	32
0.420	--
0.315	30
0.160	29
0.150	--
0.080	28

M.C. (%) : 104

M.C. (%) : 53

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 2
 % SAND: 46
 % FINES: 52

% GRAVEL: 61
 % SAND: 12
 % FINES: 28

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILTY GRAVEL (GM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 246-80
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1892+200 O/S 25M RT
 LOGGED BY: TF DATE COMPLETED: 93.09.16

FIELD NO: 200
 LAB NO: 1150
 DEPTH: 0.9-1.1
 TYPE: AUGER
 ORGANIC

FIELD NO: 201
 LAB NO: 1151
 DEPTH: 2.9-3.1
 TYPE: AUGER
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	77
20.0	74
12.5	67
10.0	66
5.0	61
2.5	57
2.0	--
1.25	53
0.840	--
0.630	48
0.420	--
0.315	42
0.160	35
0.150	--
0.080	27

M.C. (%) : 82

M.C. (%) : 27

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: 39
 % SAND: 34
 % FINES: 27

CLASSIFICATION:

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 246-81
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1892+150 O/S RT
 LOGGED BY: TF DATE COMPLETED: 93.09.16

FIELD NO: 202
 LAB NO: 1152
 DEPTH: 0.9-1.1
 TYPE: AUGER

FIELD NO: 203
 LAB NO: 1153
 DEPTH: 2.9-3.1
 TYPE: AUGER

FIELD NO: 204
 LAB NO: 1154
 DEPTH: 3.9-4.1
 TYPE: AUGER

FIELD NO: 205
 LAB NO: 1155
 DEPTH: 5.9-6.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	93
12.5	87
10.0	85
5.0	76
2.5	71
2.0	--
1.25	66
0.840	--
0.630	61
0.420	--
0.315	50
0.160	37
0.150	--
0.080	30

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	93
12.5	84
10.0	81
5.0	72
2.5	66
2.0	--
1.25	62
0.840	--
0.630	58
0.420	--
0.315	50
0.160	40
0.150	--
0.080	32

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	82
12.5	71
10.0	69
5.0	63
2.5	56
2.0	--
1.25	52
0.840	--
0.630	48
0.420	--
0.315	43
0.160	35
0.150	--
0.080	28

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	91
12.5	84
10.0	79
5.0	71
2.5	64
2.0	--
1.25	59
0.840	--
0.630	54
0.420	--
0.315	48
0.160	40
0.150	--
0.080	32

M.C. (%): 11

M.C. (%): 12

M.C. (%): 14

M.C. (%): 14

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 24
 % SAND: 46
 % FINES: 30

% GRAVEL: 28
 % SAND: 40
 % FINES: 32

% GRAVEL: 37
 % SAND: 35
 % FINES: 28

% GRAVEL: 29
 % SAND: 39
 % FINES: 32

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 246-82
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1892+085 O/S 15M RT
 LOGGED BY: TF DATE COMPLETED: 93.09.16

FIELD NO: 206
 LAB NO: 1156
 DEPTH: 0.9-1.1
 TYPE: AUGER

FIELD NO: 207
 LAB NO: 1157
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 208
 LAB NO: 1158
 DEPTH: 3.9-4.1
 TYPE: AUGER

FIELD NO: 209
 LAB NO: 1159
 DEPTH: 5.9-6.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	84
12.5	79
10.0	77
5.0	74
2.5	71
2.0	--
1.25	69
0.840	--
0.630	67
0.420	--
0.315	65
0.160	56
0.150	--
0.080	37

M.C. (%): 15

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 26
 % SAND: 37
 % FINES: 37

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	97
10.0	92
5.0	89
2.5	86
2.0	--
1.25	82
0.840	--
0.630	78
0.420	--
0.315	72
0.160	63
0.150	--
0.080	52

M.C. (%): 81

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 11
 % SAND: 38
 % FINES: 52

CLASSIFICATION:
 SANDY SILT (ML)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	95
12.5	88
10.0	86
5.0	78
2.5	73
2.0	--
1.25	69
0.840	--
0.630	66
0.420	--
0.315	61
0.160	55
0.150	--
0.080	47

M.C. (%): 23

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: TRACE

% GRAVEL: 22
 % SAND: 30
 % FINES: 47

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	95
10.0	92
5.0	89
2.5	86
2.0	--
1.25	83
0.840	--
0.630	79
0.420	--
0.315	73
0.160	66
0.150	--
0.080	58

M.C. (%): 36

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 11
 % SAND: 31
 % FINES: 58

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 246-83
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1892+000 O/S 20M RT
 LOGGED BY: TF DATE COMPLETED: 93.09.16

FIELD NO: 210
 LAB NO: 1160
 DEPTH: 0.9-1.1
 TYPE: AUGER

FIELD NO: 211
 LAB NO: 1161
 DEPTH: 1.9-2.1
 TYPE: AUGER

FIELD NO: 212
 LAB NO: 1162
 DEPTH: 4.8-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	99
12.5	87
10.0	78
5.0	58
2.5	47
2.0	--
1.25	39
0.840	--
0.630	34
0.420	--
0.315	29
0.160	25
0.150	--
0.080	21

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	97
10.0	97
5.0	96
2.5	96
2.0	--
1.25	96
0.840	--
0.630	91
0.420	--
0.315	60
0.160	25
0.150	--
0.080	17

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	97
5.0	93
2.5	89
2.0	--
1.25	83
0.840	--
0.630	63
0.420	--
0.315	32
0.160	17
0.150	--
0.080	11

M.C. (%) : 10

M.C. (%) : 8

M.C. (%) : 13

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 42
 % SAND: 37
 % FINES: 21

% GRAVEL: 4
 % SAND: 79
 % FINES: 17

% GRAVEL: 7
 % SAND: 82
 % FINES: 11

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 POORLY GRADED
 SAND WITH SILT
 (SP-SM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 246-84
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1892+050 O/S 15M RT
 LOGGED BY: TF DATE COMPLETED: 93.09.16

FIELD NO: 213
 LAB NO: 1163
 DEPTH: 0.9-1.1
 TYPE: AUGER

FIELD NO: 214
 LAB NO: 1164
 DEPTH: 2.2-2.4
 TYPE: AUGER

FIELD NO: 215
 LAB NO: 1165
 DEPTH: 3.6-3.8
 TYPE: AUGER

FIELD NO: 216
 LAB NO: 1166
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

SIEVE SIZE	PERCENT PASSING
------------	-----------------

SIEVE SIZE	PERCENT PASSING
------------	-----------------

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	96
10.0	94
5.0	92
2.5	90
2.0	--
1.25	88
0.840	--
0.630	84
0.420	--
0.315	68
0.160	51
0.150	--
0.080	17

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	99
2.5	98
2.0	--
1.25	91
0.840	--
0.630	64
0.420	--
0.315	24
0.160	11
0.150	--
0.080	6

100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	94
12.5	93
10.0	92
5.0	89
2.5	86
2.0	--
1.25	84
0.840	--
0.630	79
0.420	--
0.315	67
0.160	50
0.150	--
0.080	33

100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	69
12.5	64
10.0	53
5.0	48
2.5	39
2.0	--
1.25	34
0.840	--
0.630	31
0.420	--
0.315	27
0.160	16
0.150	--
0.080	13

M.C. (%) : 7

M.C. (%) : 3

M.C. (%) : 20

M.C. (%) : 8

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 8
 % SAND: 74
 % FINES: 17

% GRAVEL: 1
 % SAND: 93
 % FINES: 6

% GRAVEL: 11
 % SAND: 56
 % FINES: 33

% GRAVEL: 52
 % SAND: 35
 % FINES: 13

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 POORLY GRADED
 SAND WITH SILT
 (SP-SM)

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 246-84
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1892+050 O/S 15M RT
 LOGGED BY: TF DATE COMPLETED: 93.09.16

FIELD NO: 217
 LAB NO: 1167
 DEPTH: 8.8-9.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	93
10.0	90
5.0	87
2.5	85
2.0	--
1.25	83
0.840	--
0.630	81
0.420	--
0.315	78
0.160	75
0.150	--
0.080	70

M.C. (%) : 21

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 13
 % SAND: 17
 % FINES: 70

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0311-193 HOLE NUMBER: 246-85
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1892+100 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.16

FIELD NO: 218
 LAB NO: 1168
 DEPTH: 1.9-2.1
 TYPE: AUGER

FIELD NO: 219
 LAB NO: 1169
 DEPTH: 4.0-4.4
 TYPE: AUGER

FIELD NO: 220
 LAB NO: 1170
 DEPTH: 5.9-6.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	75
20.0	61
12.5	36
10.0	31
5.0	23
2.5	20
2.0	--
1.25	18
0.840	--
0.630	16
0.420	--
0.315	14
0.160	11
0.150	--
0.080	9

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	84
10.0	73
5.0	47
2.5	37
2.0	--
1.25	31
0.840	--
0.630	24
0.420	--
0.315	18
0.160	16
0.150	--
0.080	14

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	69
20.0	49
12.5	37
10.0	32
5.0	23
2.5	18
2.0	--
1.25	14
0.840	--
0.630	10
0.420	--
0.315	6
0.160	5
0.150	--
0.080	5

M.C. (%) : 10

M.C. (%) : 13

M.C. (%) : 7

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 77
 % SAND: 15
 % FINES: 9

% GRAVEL: 53
 % SAND: 33
 % FINES: 14

% GRAVEL: 77
 % SAND: 19
 % FINES: 5

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

PROJECT NUMBER: 092-202101-0311-193 HOLE NUMBER: 246-86
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1892+150 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.16

FIELD NO: 221
 LAB NO: 1171
 DEPTH: 0.9-1.1
 TYPE: AUGER

FIELD NO: 222
 LAB NO: 1172
 DEPTH: 1.9-2.1
 TYPE: AUGER

FIELD NO: 223
 LAB NO: 1173
 DEPTH: 3.9-4.1
 TYPE: AUGER

FIELD NO: 224
 LAB NO: 1174
 DEPTH: 5.9-6.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	70
12.5	51
10.0	41
5.0	29
2.5	24
2.0	--
1.25	22
0.840	--
0.630	20
0.420	--
0.315	17
0.160	15
0.150	--
0.080	14

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	91
20.0	76
12.5	55
10.0	45
5.0	17
2.5	7
2.0	--
1.25	4
0.840	--
0.630	2
0.420	--
0.315	1
0.160	1
0.150	--
0.080	1

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	77
12.5	48
10.0	36
5.0	14
2.5	8
2.0	--
1.25	5
0.840	--
0.630	4
0.420	--
0.315	3
0.160	3
0.150	--
0.080	2

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	47
20.0	40
12.5	25
10.0	22
5.0	12
2.5	8
2.0	--
1.25	6
0.840	--
0.630	5
0.420	--
0.315	4
0.160	4
0.150	--
0.080	3

M.C. (%) : 14

M.C. (%) : 4

M.C. (%) : 3

M.C. (%) : 4

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 71
 % SAND: 16
 % FINES: 14

% GRAVEL: 83
 % SAND: 16
 % FINES: 1

% GRAVEL: 86
 % SAND: 12
 % FINES: 2

% GRAVEL: 88
 % SAND: 9
 % FINES: 3

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL (GW)

PROJECT NUMBER: 092-202101-0311-193 HOLE NUMBER: 246-87
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1891+900
 LOGGED BY: TF DATE COMPLETED: 93.09.17

FIELD NO: 225
 LAB NO: 1175
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 226
 LAB NO: 1176
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 227
 LAB NO: 1177
 DEPTH: 4.8-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	75
20.0	72
12.5	67
10.0	62
5.0	51
2.5	44
2.0	--
1.25	38
0.840	--
0.630	32
0.420	--
0.315	25
0.160	21
0.150	--
0.080	19

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	89
12.5	78
10.0	74
5.0	66
2.5	60
2.0	--
1.25	56
0.840	--
0.630	50
0.420	--
0.315	42
0.160	34
0.150	--
0.080	28

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	96
10.0	93
5.0	87
2.5	81
2.0	--
1.25	76
0.840	--
0.630	70
0.420	--
0.315	60
0.160	51
0.150	--
0.080	43

M.C. (%) : 14

M.C. (%) : 9

M.C. (%) : 13

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 49
 % SAND: 32
 % FINES: 19

% GRAVEL: 34
 % SAND: 38
 % FINES: 28

% GRAVEL: 13
 % SAND: 44
 % FINES: 43

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0311-193 HOLE NUMBER: 246-88
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1891+800
 LOGGED BY: TF DATE COMPLETED: 93.09.17

FIELD NO: 228
 LAB NO: 1178
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 229
 LAB NO: 1179
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 230
 LAB NO: 1180
 DEPTH: 4.8-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	92
12.5	89
10.0	85
5.0	81
2.5	71
2.0	--
1.25	52
0.840	--
0.630	41
0.420	--
0.315	36
0.160	33
0.150	--
0.080	28

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	86
12.5	80
10.0	79
5.0	75
2.5	70
2.0	--
1.25	66
0.840	--
0.630	62
0.420	--
0.315	57
0.160	53
0.150	--
0.080	47

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	89
20.0	85
12.5	80
10.0	78
5.0	72
2.5	68
2.0	--
1.25	65
0.840	--
0.630	62
0.420	--
0.315	59
0.160	53
0.150	--
0.080	44

M.C. (%) : 8

M.C. (%) : 12

M.C. (%) : 9

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: TRACE

% GRAVEL: 19
 % SAND: 53
 % FINES: 28

% GRAVEL: 25
 % SAND: 28
 % FINES: 47

% GRAVEL: 28
 % SAND: 28
 % FINES: 44

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0311-193 HOLE NUMBER: 246-89
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1891+700
 LOGGED BY: TF DATE COMPLETED: 93.09.17

FIELD NO: 231
 LAB NO: 1181
 DEPTH: 1.0-1.2
 TYPE: AUGER

FIELD NO: 233
 LAB NO: 1182
 DEPTH: 4.8-5.0
 TYPE: AUGER

FIELD NO: 232
 LAB NO: 1183
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	97
10.0	94
5.0	86
2.5	81
2.0	--
1.25	77
0.840	--
0.630	73
0.420	--
0.315	68
0.160	62
0.150	--
0.080	56

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	95
12.5	88
10.0	85
5.0	74
2.5	61
2.0	--
1.25	40
0.840	--
0.630	20
0.420	--
0.315	12
0.160	10
0.150	--
0.080	9

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	88
20.0	54
12.5	47
10.0	39
5.0	26
2.5	20
2.0	--
1.25	14
0.840	--
0.630	9
0.420	--
0.315	6
0.160	4
0.150	--
0.080	2

M.C. (%) : 29

M.C. (%) : 11

M.C. (%) : 5

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 14
 % SAND: 30
 % FINES: 56

% GRAVEL: 26
 % SAND: 65
 % FINES: 9

% GRAVEL: 74
 % SAND: 24
 % FINES: 2

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 WELL-GRADED SAND
 WITH SILT &
 GRAVEL (SW-SM)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

PROJECT NUMBER: 092-202101-0311-193 HOLE NUMBER: 246-90
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1891+600
 LOGGED BY: TF DATE COMPLETED: 93.09.17

FIELD NO: 234
 LAB NO: 1184
 DEPTH: 1.0-1.2
 TYPE: AUGER

FIELD NO: 235
 LAB NO: 1185
 DEPTH: 2.2-2.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	87
12.5	67
10.0	61
5.0	41
2.5	26
2.0	--
1.25	19
0.840	--
0.630	16
0.420	--
0.315	13
0.160	11
0.150	--
0.080	10

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	77
10.0	64
5.0	25
2.5	11
2.0	--
1.25	8
0.840	--
0.630	7
0.420	--
0.315	6
0.160	5
0.150	--
0.080	5

M.C. (%): 8

M.C. (%): 5

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 59
 % SAND: 31
 % FINES: 10

% GRAVEL: 75
 % SAND: 20
 % FINES: 5

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

PROJECT NUMBER: 092-202101-0311-193 HOLE NUMBER: 246-91
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1891+500
 LOGGED BY: TF DATE COMPLETED: 93.09.17

FIELD NO: 236
 LAB NO: 1186
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 237
 LAB NO: 1187
 DEPTH: 3.4-3.6
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	92
12.5	68
10.0	61
5.0	36
2.5	20
2.0	--
1.25	10
0.840	--
0.630	5
0.420	--
0.315	2
0.160	1
0.150	--
0.080	1

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	73
12.5	55
10.0	50
5.0	31
2.5	18
2.0	--
1.25	9
0.840	--
0.630	5
0.420	--
0.315	2
0.160	2
0.150	--
0.080	1

M.C. (%) : 2

M.C. (%) : 2

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 64
 % SAND: 35
 % FINES: 1

% GRAVEL: 69
 % SAND: 29
 % FINES: 1

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

PROJECT NUMBER: 092-202101-0311-193 HOLE NUMBER: 246-92
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.17

FIELD NO: 238
 LAB NO: 1188
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 239
 LAB NO: 1189
 DEPTH: 2.4-2.6
 TYPE: AUGER

FIELD NO: 240
 LAB NO: 1190
 DEPTH: 4.4-4.6
 TYPE: AUGER

FIELD NO: 241
 LAB NO: 1191
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	92
12.5	84
10.0	74
5.0	37
2.5	15
2.0	--
1.25	8
0.840	--
0.630	6
0.420	--
0.315	5
0.160	4
0.150	--
0.080	4

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	92
10.0	80
5.0	37
2.5	15
2.0	--
1.25	8
0.840	--
0.630	6
0.420	--
0.315	4
0.160	3
0.150	--
0.080	2

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	85
10.0	73
5.0	33
2.5	12
2.0	--
1.25	6
0.840	--
0.630	5
0.420	--
0.315	4
0.160	3
0.150	--
0.080	2

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	79
10.0	60
5.0	19
2.5	6
2.0	--
1.25	4
0.840	--
0.630	3
0.420	--
0.315	2
0.160	2
0.150	--
0.080	1

M.C. (%) : 2

M.C. (%) : 2

M.C. (%) : 2

M.C. (%) : 2

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 63
 % SAND: 34
 % FINES: 4

% GRAVEL: 63
 % SAND: 35
 % FINES: 2

% GRAVEL: 67
 % SAND: 31
 % FINES: 2

% GRAVEL: 81
 % SAND: 18
 % FINES: 1

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SAND
 (GP)

PROJECT NUMBER: 092-202101-0311-193 HOLE NUMBER: 246-92
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.17

FIELD NO: 242
 LAB NO: 1192
 DEPTH: 8.8-9.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	93
10.0	85
5.0	42
2.5	18
2.0	--
1.25	10
0.840	--
0.630	7
0.420	--
0.315	4
0.160	2
0.150	--
0.080	2

M.C. (%) : 3

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 58
 % SAND: 40
 % FINES: 2

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

PROJECT NUMBER: 092-202101-0311-193 HOLE NUMBER: 246-93
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.17

FIELD NO: 243
 LAB NO: 1193
 DEPTH: 1.0-1.2
 TYPE: AUGER

FIELD NO: 244
 LAB NO: 1194
 DEPTH: 4.8-5.0
 TYPE: AUGER

FIELD NO: 245
 LAB NO: 1195
 DEPTH: 6.8-7.0
 TYPE: AUGER

FIELD NO: 246
 LAB NO: 1196
 DEPTH: 8.0-8.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	71
20.0	57
12.5	44
10.0	38
5.0	21
2.5	15
2.0	--
1.25	13
0.840	--
0.630	11
0.420	--
0.315	10
0.160	8
0.150	--
0.080	7

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	62
10.0	41
5.0	8
2.5	4
2.0	--
1.25	3
0.840	--
0.630	3
0.420	--
0.315	3
0.160	3
0.150	--
0.080	2

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	77
10.0	63
5.0	20
2.5	6
2.0	--
1.25	4
0.840	--
0.630	3
0.420	--
0.315	2
0.160	2
0.150	--
0.080	1

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	94
10.0	90
5.0	75
2.5	58
2.0	--
1.25	45
0.840	--
0.630	31
0.420	--
0.315	11
0.160	3
0.150	--
0.080	1

M.C. (%) : 4

M.C. (%) : 2

M.C. (%) : 2

M.C. (%) : 4

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 79
 % SAND: 14
 % FINES: 7

% GRAVEL: 92
 % SAND: 6
 % FINES: 2

% GRAVEL: 80
 % SAND: 19
 % FINES: 1

% GRAVEL: 25
 % SAND: 74
 % FINES: 1

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 (GP-GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SAND
 (GP)

CLASSIFICATION:
 POORLY GRADED
 SAND WITH GRAVEL
 (SP)

PROJECT NUMBER: 092-202101-0311-193 HOLE NUMBER: 246-94
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1891+400
 LOGGED BY: TF DATE COMPLETED: 93.09.17

FIELD NO: 247
 LAB NO: 1197
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANIC

FIELD NO: 248
 LAB NO: 1198
 DEPTH: 2.2-2.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	87
10.0	81
5.0	69
2.5	64
2.0	--
1.25	62
0.840	--
0.630	61
0.420	--
0.315	58
0.160	55
0.150	--
0.080	51

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	72
12.5	41
10.0	25
5.0	6
2.5	5
2.0	--
1.25	4
0.840	--
0.630	4
0.420	--
0.315	4
0.160	4
0.150	--
0.080	4

M.C. (%) : 15

M.C. (%) : 2

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 31
 % SAND: 19
 % FINES: 51

% GRAVEL: 94
 % SAND: 2
 % FINES: 4

CLASSIFICATION:
 GRAVELLY SILT
 WITH SAND (ML)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

PROJECT NUMBER: 092-202101-0311-193 HOLE NUMBER: 246-95
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1891+300
 LOGGED BY: TF DATE COMPLETED: 93.09.17

FIELD NO: 249
 LAB NO: 1199
 DEPTH: 0.8-1.1
 TYPE: AUGER

FIELD NO: 250
 LAB NO: 1200
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	88
10.0	84
5.0	67
2.5	44
2.0	--
1.25	28
0.840	--
0.630	23
0.420	--
0.315	20
0.160	18
0.150	--
0.080	15

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	89
12.5	42
10.0	27
5.0	6
2.5	4
2.0	--
1.25	4
0.840	--
0.630	4
0.420	--
0.315	4
0.160	4
0.150	--
0.080	3

M.C. (%) : 6

M.C. (%) : 3

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 33
 % SAND: 52
 % FINES: 15

% GRAVEL: 94
 % SAND: 2
 % FINES: 3

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

PROJECT NUMBER: 092-202101-0311-193 HOLE NUMBER: 246-96
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1891+200
 LOGGED BY: TF DATE COMPLETED: 93.09.17

FIELD NO: 251
 LAB NO: 1201
 DEPTH: 0.8-1.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	87
20.0	87
12.5	72
10.0	63
5.0	31
2.5	12
2.0	--
1.25	8
0.840	--
0.630	6
0.420	--
0.315	6
0.160	5
0.150	--
0.080	4

M.C. (%) : 3

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 69
 % SAND: 26
 % FINES: 4

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

PROJECT NUMBER: 092-202101-0311-193 HOLE NUMBER: 246-97
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1891+100
 LOGGED BY: TF DATE COMPLETED: 93.09.17

FIELD NO: 252
 LAB NO: 1202
 DEPTH: 2.0-2.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	49
20.0	19
12.5	4
10.0	3
5.0	2
2.5	2
2.0	--
1.25	2
0.840	--
0.630	2
0.420	--
0.315	2
0.160	2
0.150	--
0.080	2

M.C. (%) : 2

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 98
 % SAND: 1
 % FINES: 2

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 246-98
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1891+000
 LOGGED BY: TF DATE COMPLETED: 93.09.17

FIELD NO: 253
 LAB NO: 1203
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 254
 LAB NO: 1204
 DEPTH: 3.0-3.2
 TYPE: AUGER

FIELD NO: 255
 LAB NO: 1205
 DEPTH: 4.8-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	47
20.0	27
12.5	14
10.0	11
5.0	9
2.5	8
2.0	--
1.25	8
0.840	--
0.630	8
0.420	--
0.315	7
0.160	7
0.150	--
0.080	6

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	67
20.0	41
12.5	20
10.0	14
5.0	10
2.5	10
2.0	--
1.25	10
0.840	--
0.630	10
0.420	--
0.315	9
0.160	9
0.150	--
0.080	9

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	80
20.0	44
12.5	26
10.0	21
5.0	17
2.5	16
2.0	--
1.25	16
0.840	--
0.630	16
0.420	--
0.315	15
0.160	15
0.150	--
0.080	14

M.C. (%) : 10

M.C. (%) : 6

M.C. (%) : 9

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 91
 % SAND: 2
 % FINES: 6

% GRAVEL: 90
 % SAND: 2
 % FINES: 9

% GRAVEL: 83
 % SAND: 4
 % FINES: 14

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 (GW-GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 (GP-GM)

CLASSIFICATION:
 SILTY GRAVEL (GM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 246-99
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1890+900
 LOGGED BY: TF DATE COMPLETED: 93.09.17

FIELD NO: 256
 LAB NO: 1206
 DEPTH: 0.8-1.0
 TYPE: AUGER
 SAMPLE SPILLED

FIELD NO: 257
 LAB NO: 1207
 DEPTH: 2.4-2.6
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	55
20.0	49
12.5	34
10.0	27
5.0	13
2.5	9
2.0	--
1.25	8
0.840	--
0.630	7
0.420	--
0.315	7
0.160	6
0.150	--
0.080	6

M.C. (%): 37

M.C. (%): 6

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: --

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: 87
 % SAND: 7
 % FINES: 6

CLASSIFICATION:

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 (GW-GM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 246-100
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1890+800
 LOGGED BY: TF DATE COMPLETED: 93.09.17

FIELD NO: 258
 LAB NO: 1208
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 259
 LAB NO: 1209
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 260
 LAB NO: 1210
 DEPTH: 4.8-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	67
12.5	49
10.0	40
5.0	27
2.5	22
2.0	--
1.25	19
0.840	--
0.630	18
0.420	--
0.315	16
0.160	15
0.150	--
0.080	14

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	64
12.5	40
10.0	26
5.0	9
2.5	7
2.0	--
1.25	6
0.840	--
0.630	6
0.420	--
0.315	5
0.160	4
0.150	--
0.080	4

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	79
20.0	58
12.5	29
10.0	20
5.0	10
2.5	9
2.0	--
1.25	8
0.840	--
0.630	8
0.420	--
0.315	8
0.160	7
0.150	--
0.080	6

M.C. (%) : 8

M.C. (%) : 4

M.C. (%) : 3

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 73
 % SAND: 13
 % FINES: 14

% GRAVEL: 91
 % SAND: 6
 % FINES: 4

% GRAVEL: 90
 % SAND: 4
 % FINES: 6

CLASSIFICATION:
 SILTY GRAVEL (GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 (GW-GM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 246-101
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1890+700
 LOGGED BY: TF DATE COMPLETED: 93.09.17

FIELD NO: 261
 LAB NO: 1211
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 262
 LAB NO: 1212
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 263
 LAB NO: 1213
 DEPTH: 4.8-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	78
20.0	64
12.5	41
10.0	31
5.0	20
2.5	16
2.0	--
1.25	14
0.840	--
0.630	13
0.420	--
0.315	12
0.160	11
0.150	--
0.080	10

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	84
12.5	67
10.0	53
5.0	17
2.5	6
2.0	--
1.25	4
0.840	--
0.630	4
0.420	--
0.315	3
0.160	3
0.150	--
0.080	2

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	89
20.0	85
12.5	71
10.0	61
5.0	29
2.5	11
2.0	--
1.25	7
0.840	--
0.630	6
0.420	--
0.315	5
0.160	4
0.150	--
0.080	4

M.C. (%) : 6

M.C. (%) : 2

M.C. (%) : 3

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 80
 % SAND: 11
 % FINES: 10

% GRAVEL: 83
 % SAND: 14
 % FINES: 2

% GRAVEL: 71
 % SAND: 25
 % FINES: 4

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 (GP-GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 246-102
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1890+600
 LOGGED BY: TF DATE COMPLETED: 93.09.17

FIELD NO: 264
 LAB NO: 1214
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 265
 LAB NO: 1215
 DEPTH: 2.4-2.6
 TYPE: AUGER

FIELD NO: 266
 LAB NO: 1216
 DEPTH: 4.8-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	88
20.0	85
12.5	72
10.0	58
5.0	35
2.5	24
2.0	--
1.25	18
0.840	--
0.630	14
0.420	--
0.315	11
0.160	9
0.150	--
0.080	8

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	82
20.0	81
12.5	67
10.0	58
5.0	30
2.5	15
2.0	--
1.25	10
0.840	--
0.630	7
0.420	--
0.315	6
0.160	4
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	89
20.0	77
12.5	56
10.0	43
5.0	11
2.5	4
2.0	--
1.25	4
0.840	--
0.630	4
0.420	--
0.315	3
0.160	3
0.150	--
0.080	2

M.C. (%) : 5

M.C. (%) : 2

M.C. (%) : 2

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 65
 % SAND: 26
 % FINES: 8

% GRAVEL: 70
 % SAND: 27
 % FINES: 3

% GRAVEL: 89
 % SAND: 9
 % FINES: 2

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 246-105
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1890+500
 LOGGED BY: TF DATE COMPLETED: 93.09.17

FIELD NO: 269
 LAB NO: 1219
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANICS

FIELD NO: 270
 LAB NO: 1220
 DEPTH: 2.2-2.4
 TYPE: AUGER

FIELD NO: 271
 LAB NO: 1221
 DEPTH: 4.4-4.6
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	81
12.5	47
10.0	39
5.0	26
2.5	20
2.0	--
1.25	17
0.840	--
0.630	16
0.420	--
0.315	14
0.160	13
0.150	--
0.080	11

M.C. (%) : 96

M.C. (%) : 31

M.C. (%) : 11

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: 74
 % SAND: 15
 % FINES: 11

CLASSIFICATION:

CLASSIFICATION:

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 246-103
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1890+600 O/S RT
 LOGGED BY: TF DATE COMPLETED: 93.09.17

FIELD NO: 267
 LAB NO: 1217
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 268
 LAB NO: 1218
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	85
20.0	85
12.5	72
10.0	64
5.0	53
2.5	46
2.0	--
1.25	41
0.840	--
0.630	36
0.420	--
0.315	30
0.160	24
0.150	--
0.080	16

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	78
20.0	74
12.5	52
10.0	45
5.0	26
2.5	20
2.0	--
1.25	18
0.840	--
0.630	16
0.420	--
0.315	13
0.160	11
0.150	--
0.080	9

M.C. (%): 8

M.C. (%): 7

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 47
 % SAND: 37
 % FINES: 16

% GRAVEL: 74
 % SAND: 18
 % FINES: 9

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 246-106
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1890+400 O/S 10M RT
 LOGGED BY: TF DATE COMPLETED: 93.09.17

FIELD NO: 272
 LAB NO: 1222
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 273
 LAB NO: 1223
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 274
 LAB NO: 1224
 DEPTH: 4.8-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	89
20.0	85
12.5	58
10.0	44
5.0	21
2.5	15
2.0	--
1.25	12
0.840	--
0.630	11
0.420	--
0.315	10
0.160	9
0.150	--
0.080	7

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	76
12.5	41
10.0	23
5.0	5
2.5	5
2.0	--
1.25	5
0.840	--
0.630	5
0.420	--
0.315	4
0.160	4
0.150	--
0.080	4

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	76
12.5	45
10.0	26
5.0	6
2.5	4
2.0	--
1.25	4
0.840	--
0.630	4
0.420	--
0.315	4
0.160	3
0.150	--
0.080	3

M.C. (%) : 5

M.C. (%) : 3

M.C. (%) : 3

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 79
 % SAND: 14
 % FINES: 7

% GRAVEL: 95
 % SAND: 1
 % FINES: 4

% GRAVEL: 94
 % SAND: 3
 % FINES: 3

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 (GP-GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 246-110
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.20

FIELD NO: 275
 LAB NO: 1225
 DEPTH: 1.2-1.4
 TYPE: AUGER

FIELD NO: 276
 LAB NO: 1226
 DEPTH: 2.0-2.2
 TYPE: AUGER

FIELD NO: 277
 LAB NO: 1227
 DEPTH: 3.0-3.2
 TYPE: AUGER

FIELD NO: 278
 LAB NO: 1228
 DEPTH: 4.8-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	87
12.5	74
10.0	60
5.0	30
2.5	17
2.0	--
1.25	12
0.840	--
0.630	9
0.420	--
0.315	7
0.160	6
0.150	--
0.080	5

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	88
20.0	74
12.5	50
10.0	38
5.0	16
2.5	9
2.0	--
1.25	7
0.840	--
0.630	6
0.420	--
0.315	5
0.160	4
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	71
20.0	68
12.5	48
10.0	40
5.0	27
2.5	21
2.0	--
1.25	17
0.840	--
0.630	15
0.420	--
0.315	14
0.160	13
0.150	--
0.080	12

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	72
20.0	51
12.5	33
10.0	24
5.0	9
2.5	5
2.0	--
1.25	4
0.840	--
0.630	4
0.420	--
0.315	3
0.160	3
0.150	--
0.080	3

M.C. (%): 7

M.C. (%): 4

M.C. (%): 8

M.C. (%): 3

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 70
 % SAND: 25
 % FINES: 5

% GRAVEL: 84
 % SAND: 12
 % FINES: 3

% GRAVEL: 73
 % SAND: 15
 % FINES: 12

% GRAVEL: 91
 % SAND: 7
 % FINES: 3

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL (GW)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 246-111
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1890+300 O/S RT
 LOGGED BY: TF DATE COMPLETED: 93.09.20

FIELD NO: 279
 LAB NO: 1229
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 280
 LAB NO: 1230
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	80
12.5	66
10.0	57
5.0	38
2.5	30
2.0	--
1.25	26
0.840	--
0.630	24
0.420	--
0.315	23
0.160	21
0.150	--
0.080	19

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	84
12.5	66
10.0	55
5.0	23
2.5	12
2.0	--
1.25	9
0.840	--
0.630	8
0.420	--
0.315	8
0.160	7
0.150	--
0.080	6

M.C. (%) : 11

M.C. (%) : 4

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 62
 % SAND: 19
 % FINES: 19

% GRAVEL: 77
 % SAND: 17
 % FINES: 6

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 246-112
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1890+200
 LOGGED BY: TF DATE COMPLETED: 93.09.20

FIELD NO: 281
 LAB NO: 1231
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 282
 LAB NO: 1232
 DEPTH: 2.6-2.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	79
20.0	71
12.5	45
10.0	36
5.0	24
2.5	20
2.0	--
1.25	18
0.840	--
0.630	17
0.420	--
0.315	17
0.160	16
0.150	--
0.080	15

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	85
20.0	65
12.5	30
10.0	16
5.0	4
2.5	4
2.0	--
1.25	4
0.840	--
0.630	4
0.420	--
0.315	3
0.160	3
0.150	--
0.080	3

M.C. (%) : 7

M.C. (%) : 2

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 76
 % SAND: 9
 % FINES: 15

% GRAVEL: 96
 % SAND: 1
 % FINES: 3

CLASSIFICATION:
 SILTY GRAVEL (GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 246-113
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1890+100 O/S RT
 LOGGED BY: TF DATE COMPLETED: 93.09.20

FIELD NO: 283
 LAB NO: 1233
 DEPTH: 1.0-1.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	73
12.5	43
10.0	29
5.0	11
2.5	8
2.0	--
1.25	7
0.840	--
0.630	6
0.420	--
0.315	6
0.160	6
0.150	--
0.080	5

M.C. (%) : 3

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 89
 % SAND: 6
 % FINES: 5

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 (GW-GM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 246-114
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1890+000
 LOGGED BY: TF DATE COMPLETED: 93.09.20

FIELD NO: 284
 LAB NO: 1234
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 285
 LAB NO: 1235
 DEPTH: 2.4-2.6
 TYPE: AUGER

FIELD NO: 286
 LAB NO: 1236
 DEPTH: 4.8-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	83
20.0	76
12.5	67
10.0	59
5.0	40
2.5	28
2.0	--
1.25	21
0.840	--
0.630	17
0.420	--
0.315	14
0.160	13
0.150	--
0.080	12

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	76
20.0	60
12.5	34
10.0	22
5.0	6
2.5	4
2.0	--
1.25	4
0.840	--
0.630	4
0.420	--
0.315	3
0.160	3
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	68
20.0	54
12.5	31
10.0	19
5.0	5
2.5	3
2.0	--
1.25	3
0.840	--
0.630	3
0.420	--
0.315	3
0.160	3
0.150	--
0.080	2

M.C. (%) : 7

M.C. (%) : 2

M.C. (%) : 2

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 60
 % SAND: 28
 % FINES: 12

% GRAVEL: 94
 % SAND: 3
 % FINES: 3

% GRAVEL: 95
 % SAND: 2
 % FINES: 2

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 246-115
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1889+900 O/S RT
 LOGGED BY: TF DATE COMPLETED: 93.09.20

FIELD NO: 287
 LAB NO: 1237
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 288
 LAB NO: 1238
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 289
 LAB NO: 1239
 DEPTH: 4.6-4.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	87
20.0	80
12.5	68
10.0	60
5.0	34
2.5	22
2.0	--
1.25	16
0.840	--
0.630	14
0.420	--
0.315	12
0.160	12
0.150	--
0.080	11

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	58
20.0	34
12.5	14
10.0	10
5.0	7
2.5	5
2.0	--
1.25	5
0.840	--
0.630	4
0.420	--
0.315	4
0.160	3
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	98
20.0	95
12.5	88
10.0	82
5.0	68
2.5	56
2.0	--
1.25	42
0.840	--
0.630	24
0.420	--
0.315	8
0.160	4
0.150	--
0.080	3

M.C. (%): 8

M.C. (%): 3

M.C. (%): 3

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 66
 % SAND: 24
 % FINES: 11

% GRAVEL: 93
 % SAND: 3
 % FINES: 3

% GRAVEL: 32
 % SAND: 65
 % FINES: 3

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

CLASSIFICATION:
 POORLY GRADED
 SAND WITH GRAVEL
 (SP)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 246-116
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1889+800 O/S RT
 LOGGED BY: TF DATE COMPLETED: 93.09.20

FIELD NO: 290
 LAB NO: 1240
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 291
 LAB NO: 1241
 DEPTH: 3.8-4.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	71
12.5	41
10.0	29
5.0	11
2.5	7
2.0	--
1.25	6
0.840	--
0.630	5
0.420	--
0.315	5
0.160	4
0.150	--
0.080	4

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	83
20.0	74
12.5	54
10.0	40
5.0	11
2.5	4
2.0	--
1.25	3
0.840	--
0.630	3
0.420	--
0.315	3
0.160	2
0.150	--
0.080	2

M.C. (%): 3

M.C. (%): 2

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 89
 % SAND: 8
 % FINES: 4

% GRAVEL: 89
 % SAND: 9
 % FINES: 2

CLASSIFICATION:
 WELL-GRADED
 GRAVEL (GW)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 246-117
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1889+700 O/S RT
 LOGGED BY: TF DATE COMPLETED: 93.09.20

FIELD NO: 292
 LAB NO: 1242
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 293
 LAB NO: 1243
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 294
 LAB NO: 1244
 DEPTH: 4.6-4.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	83
20.0	71
12.5	54
10.0	45
5.0	30
2.5	20
2.0	--
1.25	12
0.840	--
0.630	7
0.420	--
0.315	5
0.160	4
0.150	--
0.080	4

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	82
20.0	66
12.5	37
10.0	26
5.0	10
2.5	5
2.0	--
1.25	4
0.840	--
0.630	3
0.420	--
0.315	3
0.160	3
0.150	--
0.080	2

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	78
20.0	57
12.5	23
10.0	14
5.0	3
2.5	2
2.0	--
1.25	2
0.840	--
0.630	2
0.420	--
0.315	2
0.160	2
0.150	--
0.080	2

M.C. (%): 3

M.C. (%): 2

M.C. (%): 2

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 70
 % SAND: 27
 % FINES: 4

% GRAVEL: 90
 % SAND: 8
 % FINES: 2

% GRAVEL: 97
 % SAND: 1
 % FINES: 2

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 252-118
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1889+600 O/S RT
 LOGGED BY: TF DATE COMPLETED: 93.09.20

FIELD NO: 295
 LAB NO: 1245
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 296
 LAB NO: 1246
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	98
20.0	83
12.5	63
10.0	53
5.0	33
2.5	22
2.0	--
1.25	17
0.840	--
0.630	14
0.420	--
0.315	12
0.160	11
0.150	--
0.080	9

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	85
12.5	67
10.0	56
5.0	23
2.5	12
2.0	--
1.25	10
0.840	--
0.630	9
0.420	--
0.315	8
0.160	7
0.150	--
0.080	6

M.C. (%): 5

M.C. (%): 3

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 67
 % SAND: 23
 % FINES: 9

% GRAVEL: 77
 % SAND: 17
 % FINES: 6

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 252-119
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1889+600 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.20

FIELD NO: 297
 LAB NO: 1247
 DEPTH: 3.8-4.0
 TYPE: AUGER

FIELD NO: 298
 LAB NO: 1248
 DEPTH: 4.8-5.0
 TYPE: AUGER

FIELD NO: 299
 LAB NO: 1249
 DEPTH: 7.8-8.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	90
12.5	74
10.0	58
5.0	15
2.5	3
2.0	--
1.25	2
0.840	--
0.630	2
0.420	--
0.315	2
0.160	2
0.150	--
0.080	1

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	98
20.0	92
12.5	76
10.0	67
5.0	43
2.5	19
2.0	--
1.25	6
0.840	--
0.630	4
0.420	--
0.315	3
0.160	3
0.150	--
0.080	2

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	79
12.5	65
10.0	58
5.0	38
2.5	20
2.0	--
1.25	8
0.840	--
0.630	4
0.420	--
0.315	3
0.160	2
0.150	--
0.080	2

M.C. (%): 1

M.C. (%): 2

M.C. (%): 2

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 85
 % SAND: 14
 % FINES: 1

% GRAVEL: 57
 % SAND: 41
 % FINES: 2

% GRAVEL: 62
 % SAND: 35
 % FINES: 2

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SAND
 (GP)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SAND
 (GP)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 252-120
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1889+600 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.20

FIELD NO: 300
 LAB NO: 1250
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANIC

FIELD NO: 301
 LAB NO: 1251
 DEPTH: 4.8-5.0
 TYPE: AUGER

FIELD NO: 302
 LAB NO: 1252
 DEPTH: 6.3-6.5
 TYPE: AUGER

FIELD NO: 303
 LAB NO: 1253
 DEPTH: 7.0-7.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	88
10.0	85
5.0	79
2.5	76
2.0	--
1.25	74
0.840	--
0.630	71
0.420	--
0.315	68
0.160	66
0.150	--
0.080	61

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	87
12.5	42
10.0	25
5.0	7
2.5	7
2.0	--
1.25	7
0.840	--
0.630	7
0.420	--
0.315	7
0.160	7
0.150	--
0.080	6

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	93
12.5	67
10.0	52
5.0	18
2.5	10
2.0	--
1.25	9
0.840	--
0.630	8
0.420	--
0.315	8
0.160	7
0.150	--
0.080	5

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	88
20.0	71
12.5	44
10.0	38
5.0	20
2.5	10
2.0	--
1.25	7
0.840	--
0.630	6
0.420	--
0.315	6
0.160	5
0.150	--
0.080	4

M.C. (%) : 22

M.C. (%) : 2

M.C. (%) : 4

M.C. (%) : 4

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 21
 % SAND: 19
 % FINES: 61

% GRAVEL: 93
 % SAND: 1
 % FINES: 6

% GRAVEL: 82
 % SAND: 13
 % FINES: 5

% GRAVEL: 80
 % SAND: 16
 % FINES: 4

CLASSIFICATION:
 GRAVELLY SILT
 WITH SAND (ML)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 (GP-GM)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 (GW-GM)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 252-121
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1889+500 O/S RT
 LOGGED BY: TF DATE COMPLETED: 93.09.20

FIELD NO: 304
 LAB NO: 1254
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 305
 LAB NO: 1255
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 306
 LAB NO: 1256
 DEPTH: 4.8-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	80
20.0	72
12.5	48
10.0	39
5.0	17
2.5	11
2.0	--
1.25	9
0.840	--
0.630	8
0.420	--
0.315	7
0.160	6
0.150	--
0.080	4

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	77
20.0	61
12.5	27
10.0	17
5.0	4
2.5	3
2.0	--
1.25	3
0.840	--
0.630	3
0.420	--
0.315	2
0.160	2
0.150	--
0.080	1

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	80
20.0	63
12.5	25
10.0	14
5.0	4
2.5	3
2.0	--
1.25	3
0.840	--
0.630	3
0.420	--
0.315	2
0.160	2
0.150	--
0.080	1

M.C. (%) : 2

M.C. (%) : 1

M.C. (%) : 2

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 83
 % SAND: 13
 % FINES: 4

% GRAVEL: 96
 % SAND: 3
 % FINES: 1

% GRAVEL: 96
 % SAND: 3
 % FINES: 1

CLASSIFICATION:
 WELL-GRADED
 GRAVEL (GW)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 252-122
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1889+363
 LOGGED BY: TF DATE COMPLETED: 93.09.20

FIELD NO: 307
 LAB NO: 1257
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 308
 LAB NO: 1258
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	87
12.5	55
10.0	40
5.0	16
2.5	11
2.0	--
1.25	9
0.840	--
0.630	8
0.420	--
0.315	7
0.160	6
0.150	--
0.080	5

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	90
20.0	72
12.5	34
10.0	19
5.0	3
2.5	2
2.0	--
1.25	2
0.840	--
0.630	2
0.420	--
0.315	2
0.160	2
0.150	--
0.080	2

M.C. (%): 3

M.C. (%): 2

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 84
 % SAND: 10
 % FINES: 5

% GRAVEL: 97
 % SAND: 1
 % FINES: 2

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 (GW-GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 252-123
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1889+200 O/S RT
 LOGGED BY: TF DATE COMPLETED: 93.09.20

FIELD NO: 309
 LAB NO: 1259
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 310
 LAB NO: 1260
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 311
 LAB NO: 1261
 DEPTH: 4.8-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	91
20.0	77
12.5	55
10.0	44
5.0	27
2.5	20
2.0	--
1.25	18
0.840	--
0.630	16
0.420	--
0.315	15
0.160	14
0.150	--
0.080	13

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	76
12.5	41
10.0	22
5.0	5
2.5	4
2.0	--
1.25	4
0.840	--
0.630	4
0.420	--
0.315	4
0.160	4
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	73
20.0	51
12.5	23
10.0	16
5.0	7
2.5	6
2.0	--
1.25	6
0.840	--
0.630	6
0.420	--
0.315	6
0.160	5
0.150	--
0.080	4

M.C. (%) : --

M.C. (%) : 3

M.C. (%) : 3

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 73
 % SAND: 14
 % FINES: 13

% GRAVEL: 95
 % SAND: 2
 % FINES: 3

% GRAVEL: 93
 % SAND: 3
 % FINES: 4

CLASSIFICATION:
 SILTY GRAVEL (GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 252-124
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1889+100
 LOGGED BY: TF DATE COMPLETED: 93.09.20

FIELD NO: 312
 LAB NO: 1262
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 313
 LAB NO: 1263
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 314
 LAB NO: 1264
 DEPTH: 4.8-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	93
12.5	83
10.0	77
5.0	66
2.5	59
2.0	--
1.25	55
0.840	--
0.630	52
0.420	--
0.315	50
0.160	48
0.150	--
0.080	46

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	93
12.5	71
10.0	57
5.0	27
2.5	17
2.0	--
1.25	13
0.840	--
0.630	12
0.420	--
0.315	11
0.160	9
0.150	--
0.080	8

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	81
20.0	65
12.5	22
10.0	12
5.0	6
2.5	5
2.0	--
1.25	5
0.840	--
0.630	5
0.420	--
0.315	5
0.160	5
0.150	--
0.080	4

M.C. (%) : 14

M.C. (%) : 6

M.C. (%) : 4

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 34
 % SAND: 20
 % FINES: 46

% GRAVEL: 73
 % SAND: 19
 % FINES: 8

% GRAVEL: 94
 % SAND: 2
 % FINES: 4

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 252-125
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.20

FIELD NO: 315
 LAB NO: 1265
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 316
 LAB NO: 1266
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	88
20.0	70
12.5	40
10.0	27
5.0	6
2.5	2
2.0	--
1.25	2
0.840	--
0.630	2
0.420	--
0.315	2
0.160	1
0.150	--
0.080	1

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	82
12.5	51
10.0	34
5.0	9
2.5	5
2.0	--
1.25	4
0.840	--
0.630	3
0.420	--
0.315	2
0.160	2
0.150	--
0.080	1

M.C. (%) : 1

M.C. (%) : 2

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 94
 % SAND: 5
 % FINES: 1

% GRAVEL: 91
 % SAND: 7
 % FINES: 1

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 252-126
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.20

FIELD NO: 317
 LAB NO: 1267
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 318
 LAB NO: 1268
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 319
 LAB NO: 1269
 DEPTH: 4.8-5.0
 TYPE: AUGER

FIELD NO: 320
 LAB NO: 1270
 DEPTH: 5.9-6.1
 TYPE: AUGER
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	89
10.0	86
5.0	80
2.5	75
2.0	--
1.25	72
0.840	--
0.630	71
0.420	--
0.315	69
0.160	67
0.150	--
0.080	64

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	88
20.0	69
12.5	48
10.0	41
5.0	29
2.5	24
2.0	--
1.25	21
0.840	--
0.630	20
0.420	--
0.315	19
0.160	18
0.150	--
0.080	16

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	90
20.0	54
12.5	27
10.0	17
5.0	11
2.5	9
2.0	--
1.25	8
0.840	--
0.630	8
0.420	--
0.315	7
0.160	7
0.150	--
0.080	6

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	57
12.5	24
10.0	16
5.0	9
2.5	8
2.0	--
1.25	8
0.840	--
0.630	7
0.420	--
0.315	7
0.160	6
0.150	--
0.080	6

M.C. (%): 46

M.C. (%): 14

M.C. (%): 5

M.C. (%): 4

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 20
 % SAND: 16
 % FINES: 64

% GRAVEL: 71
 % SAND: 12
 % FINES: 16

% GRAVEL: 89
 % SAND: 4
 % FINES: 6

% GRAVEL: 91
 % SAND: 4
 % FINES: 6

CLASSIFICATION:
 GRAVELLY SILT
 WITH SAND (ML)

CLASSIFICATION:
 SILTY GRAVEL (GM)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 (GW-GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 (GP-GM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 252-127
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.20

FIELD NO: 321
 LAB NO: 1271
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 322
 LAB NO: 1272
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 323
 LAB NO: 1273
 DEPTH: 4.8-5.0
 TYPE: AUGER

FIELD NO: 324
 LAB NO: 1274
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	88
20.0	66
12.5	28
10.0	17
5.0	8
2.5	6
2.0	--
1.25	5
0.840	--
0.630	4
0.420	--
0.315	4
0.160	3
0.150	--
0.080	3

M.C. (%) : 2

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 92
 % SAND: 5
 % FINES: 3

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	100
50.0	82
31.5	--
25.0	32
20.0	18
12.5	6
10.0	2
5.0	1
2.5	1
2.0	--
1.25	1
0.840	--
0.630	1
0.420	--
0.315	1
0.160	1
0.150	--
0.080	1

M.C. (%) : 1

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 99
 % SAND: 0
 % FINES: 1

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	91
12.5	69
10.0	50
5.0	6
2.5	3
2.0	--
1.25	3
0.840	--
0.630	2
0.420	--
0.315	2
0.160	2
0.150	--
0.080	2

M.C. (%) : 2

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 94
 % SAND: 4
 % FINES: 2

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	89
12.5	69
10.0	48
5.0	14
2.5	7
2.0	--
1.25	5
0.840	--
0.630	4
0.420	--
0.315	3
0.160	3
0.150	--
0.080	3

M.C. (%) : 2

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 86
 % SAND: 11
 % FINES: 3

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 252-128
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.20

FIELD NO: 325
 LAB NO: 1275
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	73
20.0	66
12.5	55
10.0	47
5.0	33
2.5	22
2.0	--
1.25	17
0.840	--
0.630	15
0.420	--
0.315	13
0.160	11
0.150	--
0.080	10

M.C. (%): 11

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 67
 % SAND: 23
 % FINES: 10

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 252-129
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1889+000
 LOGGED BY: TF DATE COMPLETED: 93.09.20

FIELD NO: 326
 LAB NO: 1276
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 327
 LAB NO: 1277
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 328
 LAB NO: 1278
 DEPTH: 4.8-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	85
12.5	72
10.0	59
5.0	32
2.5	18
2.0	--
1.25	15
0.840	--
0.630	13
0.420	--
0.315	11
0.160	9
0.150	--
0.080	8

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	76
12.5	40
10.0	25
5.0	7
2.5	5
2.0	--
1.25	5
0.840	--
0.630	5
0.420	--
0.315	4
0.160	4
0.150	--
0.080	4

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	89
12.5	83
10.0	68
5.0	15
2.5	6
2.0	--
1.25	6
0.840	--
0.630	6
0.420	--
0.315	5
0.160	5
0.150	--
0.080	4

M.C. (%): 5

M.C. (%): 3

M.C. (%): 2

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 68
 % SAND: 23
 % FINES: 8

% GRAVEL: 93
 % SAND: 3
 % FINES: 4

% GRAVEL: 85
 % SAND: 10
 % FINES: 4

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 252-130
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1888+900
 LOGGED BY: TF DATE COMPLETED: 93.09.21

FIELD NO: 329
 LAB NO: 1279
 DEPTH: 1.4-1.6
 TYPE: AUGER
 ORGANICS

FIELD NO: 330
 LAB NO: 1280
 DEPTH: 4.4-4.6
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	69
12.5	55
10.0	41
5.0	26
2.5	21
2.0	--
1.25	20
0.840	--
0.630	19
0.420	--
0.315	18
0.160	17
0.150	--
0.080	16

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	68
20.0	50
12.5	20
10.0	11
5.0	6
2.5	6
2.0	--
1.25	6
0.840	--
0.630	6
0.420	--
0.315	6
0.160	5
0.150	--
0.080	5

M.C. (%) : 11

M.C. (%) : 3

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 74
 % SAND: 10
 % FINES: 16

% GRAVEL: 94
 % SAND: 1
 % FINES: 5

CLASSIFICATION:
 SILTY GRAVEL (GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 (GP-GM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 252-131
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1888+800
 LOGGED BY: TF DATE COMPLETED: 93.09.21

FIELD NO: 331
 LAB NO: 1281
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 332
 LAB NO: 1282
 DEPTH: 2.6-2.8
 TYPE: AUGER

FIELD NO: 333
 LAB NO: 1283
 DEPTH: 4.4-4.6
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	85
20.0	77
12.5	58
10.0	48
5.0	31
2.5	24
2.0	--
1.25	21
0.840	--
0.630	20
0.420	--
0.315	19
0.160	18
0.150	--
0.080	17

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	80
12.5	52
10.0	38
5.0	18
2.5	10
2.0	--
1.25	9
0.840	--
0.630	8
0.420	--
0.315	8
0.160	7
0.150	--
0.080	7

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	92
12.5	69
10.0	51
5.0	15
2.5	5
2.0	--
1.25	4
0.840	--
0.630	4
0.420	--
0.315	4
0.160	3
0.150	--
0.080	3

M.C. (%): 10

M.C. (%): 5

M.C. (%): 2

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 69
 % SAND: 13
 % FINES: 17

% GRAVEL: 82
 % SAND: 11
 % FINES: 7

% GRAVEL: 85
 % SAND: 12
 % FINES: 3

CLASSIFICATION:
 SILTY GRAVEL (GM)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 (GW-GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 252-132
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1888+700
 LOGGED BY: TF DATE COMPLETED: 93.09.21

FIELD NO: 334
 LAB NO: 1284
 DEPTH: 1.2-1.4
 TYPE: AUGER
 ORGANIC

FIELD NO: 335
 LAB NO: 1285
 DEPTH: 3.0-3.2
 TYPE: AUGER

FIELD NO: 336
 LAB NO: 1286
 DEPTH: 4.4-4.6
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	93
2.0	--
1.25	86
0.840	--
0.630	80
0.420	--
0.315	76
0.160	73
0.150	--
0.080	72

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	87
20.0	76
12.5	53
10.0	38
5.0	19
2.5	13
2.0	--
1.25	11
0.840	--
0.630	10
0.420	--
0.315	9
0.160	8
0.150	--
0.080	7

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	77
12.5	59
10.0	45
5.0	26
2.5	19
2.0	--
1.25	16
0.840	--
0.630	14
0.420	--
0.315	13
0.160	11
0.150	--
0.080	10

M.C. (%) : 91

M.C. (%) : 6

M.C. (%) : 9

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 28
 % FINES: 72

% GRAVEL: 81
 % SAND: 12
 % FINES: 7

% GRAVEL: 74
 % SAND: 16
 % FINES: 10

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 (GP-GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 252-133
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.21

FIELD NO: 337
 LAB NO: 1287
 DEPTH: 0.9-1.1
 TYPE: AUGER
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	93
2.5	84
2.0	--
1.25	78
0.840	--
0.630	73
0.420	--
0.315	70
0.160	67
0.150	--
0.080	64

M.C. (%): 76

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 7
 % SAND: 28
 % FINES: 64

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 252-135
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.21

FIELD NO: 338
 LAB NO: 1288
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 339
 LAB NO: 1289
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 340
 LAB NO: 1290
 DEPTH: 4.4-4.6
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	85
12.5	75
10.0	70
5.0	59
2.5	52
2.0	--
1.25	47
0.840	--
0.630	44
0.420	--
0.315	40
0.160	34
0.150	--
0.080	31

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	84
12.5	73
10.0	67
5.0	53
2.5	45
2.0	--
1.25	41
0.840	--
0.630	38
0.420	--
0.315	34
0.160	28
0.150	--
0.080	26

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	86
12.5	79
10.0	74
5.0	63
2.5	55
2.0	--
1.25	50
0.840	--
0.630	47
0.420	--
0.315	43
0.160	38
0.150	--
0.080	34

M.C. (%) : 8

M.C. (%) : 6

M.C. (%) : 6

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 41
 % SAND: 28
 % FINES: 31

% GRAVEL: 47
 % SAND: 27
 % FINES: 26

% GRAVEL: 37
 % SAND: 29
 % FINES: 34

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 252-136
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.21

FIELD NO: 341
 LAB NO: 1291
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 342
 LAB NO: 1292
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	75
20.0	59
12.5	25
10.0	17
5.0	9
2.5	8
2.0	--
1.25	8
0.840	--
0.630	7
0.420	--
0.315	7
0.160	6
0.150	--
0.080	5

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	84
12.5	71
10.0	55
5.0	32
2.5	25
2.0	--
1.25	22
0.840	--
0.630	21
0.420	--
0.315	19
0.160	16
0.150	--
0.080	13

M.C. (%) : 2

M.C. (%) : 3

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 91
 % SAND: 4
 % FINES: 5

% GRAVEL: 68
 % SAND: 19
 % FINES: 13

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 (GP-GM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 252-137
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1888+300
 LOGGED BY: TF DATE COMPLETED: 93.09.21

FIELD NO: 343
 LAB NO: 1293
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANIC

FIELD NO: 344
 LAB NO: 1294
 DEPTH: 1.9-2.1
 TYPE: AUGER

FIELD NO: 345
 LAB NO: 1295
 DEPTH: 4.4-4.6
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	93
12.5	92
10.0	90
5.0	89
2.5	86
2.0	--
1.25	84
0.840	--
0.630	82
0.420	--
0.315	78
0.160	74
0.150	--
0.080	72

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	99
5.0	98
2.5	95
2.0	--
1.25	92
0.840	--
0.630	83
0.420	--
0.315	55
0.160	31
0.150	--
0.080	23

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	100
10.0	99
5.0	96
2.5	93
2.0	--
1.25	89
0.840	--
0.630	73
0.420	--
0.315	36
0.160	24
0.150	--
0.080	20

M.C. (%) : 54

M.C. (%) : 14

M.C. (%) : 21

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 11
 % SAND: 17
 % FINES: 72

% GRAVEL: 2
 % SAND: 75
 % FINES: 23

% GRAVEL: 4
 % SAND: 76
 % FINES: 20

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 252-138
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1888+200
 LOGGED BY: TF DATE COMPLETED: 93.09.21

FIELD NO: 346
 LAB NO: 1296
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 347
 LAB NO: 1297
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 348
 LAB NO: 1298
 DEPTH: 4.0-4.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	88
10.0	85
5.0	76
2.5	70
2.0	--
1.25	64
0.840	--
0.630	59
0.420	--
0.315	53
0.160	46
0.150	--
0.080	38

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	94
12.5	86
10.0	80
5.0	72
2.5	66
2.0	--
1.25	62
0.840	--
0.630	58
0.420	--
0.315	53
0.160	47
0.150	--
0.080	41

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	81
12.5	56
10.0	45
5.0	28
2.5	24
2.0	--
1.25	23
0.840	--
0.630	22
0.420	--
0.315	20
0.160	17
0.150	--
0.080	16

M.C. (%): 10

M.C. (%): 11

M.C. (%): 5

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 24
 % SAND: 39
 % FINES: 38

% GRAVEL: 28
 % SAND: 32
 % FINES: 41

% GRAVEL: 72
 % SAND: 12
 % FINES: 16

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY GRAVEL (GM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 252-139
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1888+100
 LOGGED BY: TF DATE COMPLETED: 93.09.21

FIELD NO: 349
 LAB NO: 1299
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANIC

FIELD NO: 350
 LAB NO: 1300
 DEPTH: 2.8-3.0
 TYPE: AUGER
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	94
12.5	87
10.0	82
5.0	78
2.5	74
2.0	--
1.25	71
0.840	--
0.630	68
0.420	--
0.315	66
0.160	63
0.150	--
0.080	61

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	93
12.5	87
10.0	84
5.0	73
2.5	64
2.0	--
1.25	59
0.840	--
0.630	53
0.420	--
0.315	45
0.160	38
0.150	--
0.080	35

M.C. (%) : 62

M.C. (%) : 43

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 22
 % SAND: 17
 % FINES: 61

% GRAVEL: 27
 % SAND: 37
 % FINES: 35

CLASSIFICATION:
 GRAVELLY SILT
 WITH SAND (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 252-140
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1888+000
 LOGGED BY: TF DATE COMPLETED: 93.09.21

FIELD NO: 351
 LAB NO: 1301
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	100
0.150	--
0.080	46

M.C. (%) : 94

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 54
 % FINES: 46

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 252-141
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1887+900
 LOGGED BY: TF DATE COMPLETED: 93.09.21

FIELD NO: 352
 LAB NO: 1302
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 353
 LAB NO: 1303
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 354
 LAB NO: 1304
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	93
10.0	91
5.0	79
2.5	72
2.0	--
1.25	65
0.840	--
0.630	60
0.420	--
0.315	53
0.160	46
0.150	--
0.080	40

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	95
10.0	92
5.0	84
2.5	76
2.0	--
1.25	71
0.840	--
0.630	66
0.420	--
0.315	57
0.160	51
0.150	--
0.080	49

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	93
10.0	90
5.0	80
2.5	68
2.0	--
1.25	61
0.840	--
0.630	55
0.420	--
0.315	48
0.160	39
0.150	--
0.080	36

M.C. (%) : 16

M.C. (%) : 18

M.C. (%) : 12

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 21
 % SAND: 39
 % FINES: 40

% GRAVEL: 16
 % SAND: 34
 % FINES: 49

% GRAVEL: 20
 % SAND: 44
 % FINES: 36

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 252-142
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1887+800
 LOGGED BY: TF DATE COMPLETED: 93.09.21

FIELD NO: 355
 LAB NO: 1305
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 356
 LAB NO: 1306
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	87
20.0	78
12.5	73
10.0	70
5.0	64
2.5	58
2.0	--
1.25	55
0.840	--
0.630	51
0.420	--
0.315	47
0.160	41
0.150	--
0.080	37

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	95
12.5	87
10.0	82
5.0	73
2.5	67
2.0	--
1.25	63
0.840	--
0.630	59
0.420	--
0.315	53
0.160	47
0.150	--
0.080	43

M.C. (%) : 16

M.C. (%) : 12

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 36
 % SAND: 26
 % FINES: 37

% GRAVEL: 27
 % SAND: 31
 % FINES: 43

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 252-143
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1887+700
 LOGGED BY: TF DATE COMPLETED: 93.09.21

FIELD NO: 357
 LAB NO: 1307
 DEPTH: 0.8-1.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	82
20.0	80
12.5	77
10.0	74
5.0	65
2.5	58
2.0	--
1.25	53
0.840	--
0.630	49
0.420	--
0.315	44
0.160	38
0.150	--
0.080	32

M.C. (%) : 12

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 35
 % SAND: 32
 % FINES: 32

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 252-144
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1887+600
 LOGGED BY: TF DATE COMPLETED: 93.09.21

FIELD NO: 358
 LAB NO: 1308
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 359
 LAB NO: 1309
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 360
 LAB NO: 1310
 DEPTH: 4.4-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	82
20.0	82
12.5	82
10.0	77
5.0	69
2.5	62
2.0	--
1.25	57
0.840	--
0.630	53
0.420	--
0.315	47
0.160	42
0.150	--
0.080	38

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	96
10.0	90
5.0	77
2.5	68
2.0	--
1.25	63
0.840	--
0.630	57
0.420	--
0.315	50
0.160	45
0.150	--
0.080	40

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	85
12.5	76
10.0	74
5.0	65
2.5	57
2.0	--
1.25	52
0.840	--
0.630	49
0.420	--
0.315	44
0.160	38
0.150	--
0.080	36

M.C. (%): 9

M.C. (%): 10

M.C. (%): 11

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: TRACE

% GRAVEL: 31
 % SAND: 31
 % FINES: 38

% GRAVEL: 23
 % SAND: 37
 % FINES: 40

% GRAVEL: 35
 % SAND: 29
 % FINES: 36

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 252-145
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1887+450 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.21

FIELD NO: 361
 LAB NO: 1311
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 362
 LAB NO: 1312
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 363
 LAB NO: 1313
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	94
12.5	85
10.0	83
5.0	73
2.5	65
2.0	--
1.25	60
0.840	--
0.630	56
0.420	--
0.315	50
0.160	44
0.150	--
0.080	39

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	91
12.5	85
10.0	81
5.0	74
2.5	67
2.0	--
1.25	61
0.840	--
0.630	55
0.420	--
0.315	49
0.160	43
0.150	--
0.080	39

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	80
12.5	68
10.0	64
5.0	56
2.5	49
2.0	--
1.25	44
0.840	--
0.630	41
0.420	--
0.315	36
0.160	30
0.150	--
0.080	27

M.C. (%) : 9

M.C. (%) : 9

M.C. (%) : 8

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 27
 % SAND: 34
 % FINES: 39

% GRAVEL: 26
 % SAND: 35
 % FINES: 39

% GRAVEL: 44
 % SAND: 29
 % FINES: 27

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0312-193 HOLE NUMBER: 252-146
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1887+475 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.21

FIELD NO: 364
 LAB NO: 1314
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 365
 LAB NO: 1315
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 366
 LAB NO: 1316
 DEPTH: 3.8-4.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	92
12.5	85
10.0	78
5.0	61
2.5	45
2.0	--
1.25	31
0.840	--
0.630	18
0.420	--
0.315	10
0.160	7
0.150	--
0.080	6

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	89
20.0	87
12.5	74
10.0	68
5.0	50
2.5	36
2.0	--
1.25	27
0.840	--
0.630	19
0.420	--
0.315	13
0.160	10
0.150	--
0.080	8

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	90
20.0	90
12.5	86
10.0	79
5.0	63
2.5	47
2.0	--
1.25	37
0.840	--
0.630	27
0.420	--
0.315	17
0.160	12
0.150	--
0.080	10

M.C. (%) : 3

M.C. (%) : 4

M.C. (%) : 6

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 39
 % SAND: 55
 % FINES: 6

% GRAVEL: 50
 % SAND: 42
 % FINES: 8

% GRAVEL: 37
 % SAND: 53
 % FINES: 10

CLASSIFICATION:
 POORLY GRADED
 SAND WITH SILT &
 GRAVEL (SP-SM)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

CLASSIFICATION:
 WELL-GRADED SAND
 WITH SILT &
 GRAVEL (SW-SM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 252-147
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1887+250 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.22

FIELD NO: 367
 LAB NO: 1317
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANIC

FIELD NO: 368
 LAB NO: 1318
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 369
 LAB NO: 1319
 DEPTH: 3.9-4.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	92
2.0	--
1.25	85
0.840	--
0.630	78
0.420	--
0.315	72
0.160	67
0.150	--
0.080	62

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	95
12.5	90
10.0	85
5.0	75
2.5	68
2.0	--
1.25	62
0.840	--
0.630	57
0.420	--
0.315	49
0.160	42
0.150	--
0.080	39

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	96
5.0	78
2.5	64
2.0	--
1.25	57
0.840	--
0.630	51
0.420	--
0.315	45
0.160	39
0.150	--
0.080	34

M.C. (%) : 95

M.C. (%) : 20

M.C. (%) : 12

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 38
 % FINES: 62

% GRAVEL: 25
 % SAND: 35
 % FINES: 39

% GRAVEL: 22
 % SAND: 44
 % FINES: 34

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 252-148
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1887+150 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.22

FIELD NO: 370
 LAB NO: 1320
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANIC

FIELD NO: 371
 LAB NO: 1321
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 372
 LAB NO: 1322
 DEPTH: 4.0-4.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	81
2.0	--
1.25	70
0.840	--
0.630	62
0.420	--
0.315	56
0.160	51
0.150	--
0.080	46

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	89
12.5	87
10.0	83
5.0	77
2.5	66
2.0	--
1.25	58
0.840	--
0.630	52
0.420	--
0.315	46
0.160	41
0.150	--
0.080	36

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	96
10.0	96
5.0	86
2.5	74
2.0	--
1.25	65
0.840	--
0.630	58
0.420	--
0.315	51
0.160	44
0.150	--
0.080	38

M.C. (%) : 118

M.C. (%) : 19

M.C. (%) : 11

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 54
 % FINES: 46

% GRAVEL: 23
 % SAND: 41
 % FINES: 36

% GRAVEL: 14
 % SAND: 48
 % FINES: 38

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 252-149
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1887+050 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.22

FIELD NO: 373
 LAB NO: 1348
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANIC

FIELD NO: 374
 LAB NO: 1349
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 375
 LAB NO: 1350
 DEPTH: 4.0-4.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	99
2.5	97
2.0	--
1.25	95
0.840	--
0.630	93
0.420	--
0.315	91
0.160	89
0.150	--
0.080	87

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	93
12.5	89
10.0	85
5.0	78
2.5	71
2.0	--
1.25	66
0.840	--
0.630	61
0.420	--
0.315	57
0.160	52
0.150	--
0.080	46

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	92
12.5	91
10.0	89
5.0	81
2.5	70
2.0	--
1.25	60
0.840	--
0.630	52
0.420	--
0.315	46
0.160	40
0.150	--
0.080	34

M.C. (%) : 114

M.C. (%) : 16

M.C. (%) : 13

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: TRACE

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 1
 % SAND: 12
 % FINES: 87

% GRAVEL: 22
 % SAND: 31
 % FINES: 46

% GRAVEL: 19
 % SAND: 48
 % FINES: 34

CLASSIFICATION: SILT (ML)

CLASSIFICATION: SILTY SAND WITH GRAVEL (SM)

CLASSIFICATION: SILTY SAND WITH GRAVEL (SM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 252-150
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1886+950 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.22

FIELD NO: 375
 LAB NO: 1351
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANIC

FIELD NO: 376
 LAB NO: 1352
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 377
 LAB NO: 1353
 DEPTH: 4.1-4.3
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	98
2.0	--
1.25	96
0.840	--
0.630	94
0.420	--
0.315	92
0.160	90
0.150	--
0.080	88

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	92
10.0	90
5.0	83
2.5	74
2.0	--
1.25	67
0.840	--
0.630	62
0.420	--
0.315	58
0.160	52
0.150	--
0.080	47

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	93
12.5	82
10.0	77
5.0	65
2.5	59
2.0	--
1.25	54
0.840	--
0.630	50
0.420	--
0.315	46
0.160	42
0.150	--
0.080	37

M.C. (%) : 114

M.C. (%) : 27

M.C. (%) : 26

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 12
 % FINES: 88

% GRAVEL: 17
 % SAND: 36
 % FINES: 47

% GRAVEL: 35
 % SAND: 28
 % FINES: 37

CLASSIFICATION:
 SILT (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 252-151
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1886+850 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.22

FIELD NO: 378
 LAB NO: 1354
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANIC

FIELD NO: 379
 LAB NO: 1355
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 380
 LAB NO: 1356
 DEPTH: 4.1-4.3
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	99
2.5	98
2.0	--
1.25	96
0.840	--
0.630	94
0.420	--
0.315	92
0.160	89
0.150	--
0.080	86

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	92
2.0	--
1.25	85
0.840	--
0.630	79
0.420	--
0.315	73
0.160	67
0.150	--
0.080	60

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	95
10.0	93
5.0	87
2.5	84
2.0	--
1.25	80
0.840	--
0.630	77
0.420	--
0.315	74
0.160	69
0.150	--
0.080	64

M.C. (%) : 98

M.C. (%) : 70

M.C. (%) : 59

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: TRACE

% GRAVEL: 1
 % SAND: 13
 % FINES: 86

% GRAVEL: 0
 % SAND: 40
 % FINES: 60

% GRAVEL: 13
 % SAND: 23
 % FINES: 64

CLASSIFICATION:
 SILT (ML)

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 252-152
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1886+750 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.22

FIELD NO: 381
 LAB NO: 1357
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANIC

FIELD NO: 382
 LAB NO: 1358
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 383
 LAB NO: 1359
 DEPTH: 4.0-4.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	98
2.0	--
1.25	97
0.840	--
0.630	95
0.420	--
0.315	94
0.160	92
0.150	--
0.080	90

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	95
12.5	87
10.0	85
5.0	77
2.5	70
2.0	--
1.25	65
0.840	--
0.630	60
0.420	--
0.315	55
0.160	50
0.150	--
0.080	43

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	94
12.5	80
10.0	77
5.0	65
2.5	58
2.0	--
1.25	55
0.840	--
0.630	52
0.420	--
0.315	48
0.160	45
0.150	--
0.080	40

M.C. (%) : 78

M.C. (%) : 18

M.C. (%) : 26

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 10
 % FINES: 90

% GRAVEL: 23
 % SAND: 33
 % FINES: 43

% GRAVEL: 35
 % SAND: 25
 % FINES: 40

CLASSIFICATION:
 SILT (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 252-153
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1886+650 O/S RT
 LOGGED BY: TF DATE COMPLETED: 93.09.22

FIELD NO: 384
 LAB NO: 1360
 DEPTH: 1.0-1.2
 TYPE: AUGER
 ORGANIC

FIELD NO: 385
 LAB NO: 1361
 DEPTH: 3.0-3.2
 TYPE: AUGER

FIELD NO: 386
 LAB NO: 1362
 DEPTH: 4.0-4.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	97
0.420	--
0.315	96
0.160	94
0.150	--
0.080	91

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	94
12.5	83
10.0	76
5.0	67
2.5	60
2.0	--
1.25	56
0.840	--
0.630	53
0.420	--
0.315	48
0.160	43
0.150	--
0.080	37

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	95
10.0	91
5.0	81
2.5	70
2.0	--
1.25	62
0.840	--
0.630	56
0.420	--
0.315	51
0.160	44
0.150	--
0.080	38

M.C. (%): 85

M.C. (%): 17

M.C. (%): 10

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 9
 % FINES: 91

% GRAVEL: 33
 % SAND: 30
 % FINES: 37

% GRAVEL: 19
 % SAND: 43
 % FINES: 38

CLASSIFICATION:
 SILT (ML)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 252-154
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1886+550 O/S RT
 LOGGED BY: TF DATE COMPLETED: 93.09.22

FIELD NO: 387
 LAB NO: 1363
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANIC

FIELD NO: 388
 LAB NO: 1364
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	94
12.5	91
10.0	90
5.0	86
2.5	83
2.0	--
1.25	79
0.840	--
0.630	76
0.420	--
0.315	73
0.160	70
0.150	--
0.080	66

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	93
12.5	90
10.0	86
5.0	77
2.5	70
2.0	--
1.25	63
0.840	--
0.630	57
0.420	--
0.315	52
0.160	47
0.150	--
0.080	41

M.C. (%): 128

M.C. (%): 38

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 14
 % SAND: 20
 % FINES: 66

% GRAVEL: 23
 % SAND: 36
 % FINES: 41

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 252-155
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1886+450 O/S RT
 LOGGED BY: TF DATE COMPLETED: 93.09.22

FIELD NO: 390
 LAB NO: 1365
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANIC

FIELD NO: 391
 LAB NO: 1366
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	97
0.160	95
0.150	--
0.080	93

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	93
12.5	84
10.0	76
5.0	63
2.5	58
2.0	--
1.25	55
0.840	--
0.630	52
0.420	--
0.315	49
0.160	44
0.150	--
0.080	39

M.C. (%): 49

M.C. (%): 17

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 7
 % FINES: 93

% GRAVEL: 37
 % SAND: 24
 % FINES: 39

CLASSIFICATION:
 SILT (ML)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 252-156
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1886+350 O/S RT
 LOGGED BY: TF DATE COMPLETED: 93.09.22

FIELD NO: 392
 LAB NO: 1367
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANIC

FIELD NO: 393
 LAB NO: 1368
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 394
 LAB NO: 1369
 DEPTH: 4.0-4.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	98
2.0	--
1.25	95
0.840	--
0.630	93
0.420	--
0.315	92
0.160	91
0.150	--
0.080	90

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	97
10.0	93
5.0	85
2.5	79
2.0	--
1.25	75
0.840	--
0.630	72
0.420	--
0.315	67
0.160	62
0.150	--
0.080	54

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	94
10.0	91
5.0	80
2.5	71
2.0	--
1.25	64
0.840	--
0.630	58
0.420	--
0.315	53
0.160	47
0.150	--
0.080	41

M.C. (%) : 143

M.C. (%) : 19

M.C. (%) : 14

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 10
 % FINES: 90

% GRAVEL: 15
 % SAND: 31
 % FINES: 54

% GRAVEL: 20
 % SAND: 39
 % FINES: 41

CLASSIFICATION:
 SILT (ML)

CLASSIFICATION:
 SANDY SILT WITH
 GRAVEL (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 252-157
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1886+300 O/S RT
 LOGGED BY: TF DATE COMPLETED: 93.09.22

FIELD NO: 395
 LAB NO: 1370
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANIC

FIELD NO: 396
 LAB NO: 1371
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 397
 LAB NO: 1372
 DEPTH: 4.0-4.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	96
0.160	93
0.150	--
0.080	90

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	98
5.0	95
2.5	91
2.0	--
1.25	86
0.840	--
0.630	82
0.420	--
0.315	77
0.160	70
0.150	--
0.080	62

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	86
10.0	82
5.0	72
2.5	66
2.0	--
1.25	62
0.840	--
0.630	58
0.420	--
0.315	54
0.160	48
0.150	--
0.080	43

M.C. (%) : 115

M.C. (%) : 24

M.C. (%) : 13

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 10
 % FINES: 90

% GRAVEL: 5
 % SAND: 33
 % FINES: 62

% GRAVEL: 28
 % SAND: 29
 % FINES: 43

CLASSIFICATION:
 SILT (ML)

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 252-158
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1886+200 O/S RT
 LOGGED BY: TF DATE COMPLETED: 93.09.22

FIELD NO: 398
 LAB NO: 1373
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	100
2.5	99
2.0	--
1.25	97
0.840	--
0.630	96
0.420	--
0.315	95
0.160	93
0.150	--
0.080	90

M.C. (%) : 138

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 9
 % FINES: 90

CLASSIFICATION:
 SILT (ML)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 252-159
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1885+775 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.22

FIELD NO: 399
 LAB NO: 1374
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANIC

FIELD NO: 400
 LAB NO: 1375
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 401
 LAB NO: 1376
 DEPTH: 4.0-4.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	97
0.420	--
0.315	95
0.160	94
0.150	--
0.080	93

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	87
10.0	84
5.0	75
2.5	69
2.0	--
1.25	63
0.840	--
0.630	59
0.420	--
0.315	53
0.160	47
0.150	--
0.080	42

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	98
5.0	92
2.5	84
2.0	--
1.25	58
0.840	--
0.630	28
0.420	--
0.315	13
0.160	9
0.150	--
0.080	8

M.C. (%) : 81

M.C. (%) : 16

M.C. (%) : 13

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 7
 % FINES: 93

% GRAVEL: 25
 % SAND: 33
 % FINES: 42

% GRAVEL: 8
 % SAND: 84
 % FINES: 8

CLASSIFICATION:
 SILT (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 WELL-GRADED SAND
 WITH SILT (SW-SM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 252-160
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1885+600 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.22

FIELD NO: 402
 LAB NO: 1377
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 403
 LAB NO: 1378
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 404
 LAB NO: 1379
 DEPTH: 4.0-4.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	74
20.0	61
12.5	42
10.0	35
5.0	23
2.5	18
2.0	--
1.25	15
0.840	--
0.630	13
0.420	--
0.315	11
0.160	10
0.150	--
0.080	8

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	92
12.5	81
10.0	71
5.0	32
2.5	9
2.0	--
1.25	5
0.840	--
0.630	5
0.420	--
0.315	4
0.160	4
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	90
10.0	81
5.0	55
2.5	31
2.0	--
1.25	13
0.840	--
0.630	7
0.420	--
0.315	4
0.160	4
0.150	--
0.080	3

M.C. (%) : 3

M.C. (%) : 2

M.C. (%) : 2

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 77
 % SAND: 15
 % FINES: 8

% GRAVEL: 68
 % SAND: 28
 % FINES: 3

% GRAVEL: 45
 % SAND: 52
 % FINES: 3

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SAND
 (GP)

CLASSIFICATION:
 WELL-GRADED SAND
 WITH GRAVEL (SW)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 252-161
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1884+800 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.23

FIELD NO: 404
 LAB NO: 1380
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANIC

FIELD NO: 405
 LAB NO: 1381
 DEPTH: 2.9-3.1
 TYPE: AUGER

FIELD NO: 406
 LAB NO: 1382
 DEPTH: 4.2-4.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	96
2.5	95
2.0	--
1.25	94
0.840	--
0.630	93
0.420	--
0.315	91
0.160	90
0.150	--
0.080	88

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	59
20.0	40
12.5	26
10.0	23
5.0	19
2.5	18
2.0	--
1.25	17
0.840	--
0.630	16
0.420	--
0.315	14
0.160	13
0.150	--
0.080	12

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	66
20.0	52
12.5	29
10.0	17
5.0	6
2.5	5
2.0	--
1.25	5
0.840	--
0.630	4
0.420	--
0.315	4
0.160	4
0.150	--
0.080	3

M.C. (%) : 65

M.C. (%) : 9

M.C. (%) : 3

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 4
 % SAND: 8
 % FINES: 88

% GRAVEL: 81
 % SAND: 7
 % FINES: 12

% GRAVEL: 94
 % SAND: 3
 % FINES: 3

CLASSIFICATION:
 SILT (ML)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 (GW-GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 252-162
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1884+700 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.23

FIELD NO: 407
 LAB NO: 1383
 DEPTH: 1.0-1.2
 TYPE: AUGER
 ORGANIC

FIELD NO: 408
 LAB NO: 1384
 DEPTH: 2.9-3.1
 TYPE: AUGER

FIELD NO: 409
 LAB NO: 1385
 DEPTH: 4.0-4.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	98
2.0	--
1.25	95
0.840	--
0.630	93
0.420	--
0.315	92
0.160	90
0.150	--
0.080	89

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	91
20.0	91
12.5	67
10.0	62
5.0	53
2.5	48
2.0	--
1.25	44
0.840	--
0.630	39
0.420	--
0.315	32
0.160	28
0.150	--
0.080	25

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	87
12.5	63
10.0	48
5.0	23
2.5	16
2.0	--
1.25	14
0.840	--
0.630	12
0.420	--
0.315	10
0.160	9
0.150	--
0.080	8

M.C. (%) : 92

M.C. (%) : 31

M.C. (%) : 8

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 11
 % FINES: 89

% GRAVEL: 47
 % SAND: 28
 % FINES: 25

% GRAVEL: 77
 % SAND: 16
 % FINES: 8

CLASSIFICATION:
 SILT (ML)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 252-163
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1884+600 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.23

FIELD NO: 410
 LAB NO: 1386
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	95
2.0	--
1.25	92
0.840	--
0.630	88
0.420	--
0.315	85
0.160	82
0.150	--
0.080	76

M.C. (%) : 87

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 24
 % FINES: 76

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 252-164
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1884+500 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.23

FIELD NO: 411
 LAB NO: 1387
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANIC

FIELD NO: 412
 LAB NO: 1388
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	97
0.420	--
0.315	95
0.160	89
0.150	--
0.080	81

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	95
5.0	79
2.5	61
2.0	--
1.25	47
0.840	--
0.630	38
0.420	--
0.315	29
0.160	23
0.150	--
0.080	18

M.C. (%): 67

M.C. (%): 12

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 19
 % FINES: 81

% GRAVEL: 21
 % SAND: 61
 % FINES: 18

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-165
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1884+400 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.23

FIELD NO: 413
 LAB NO: 1389
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	98
0.160	97
0.150	--
0.080	97

M.C. (%) : 165

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 3
 % FINES: 97

CLASSIFICATION:
 SILT (ML)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-166
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1884+300 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.23

FIELD NO: 414
 LAB NO: 1390
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANICS

FIELD NO: 415
 LAB NO: 1391
 DEPTH: 2.0-2.2
 TYPE: AUGER

FIELD NO: 416
 LAB NO: 1392
 DEPTH: 3.2-3.4
 TYPE: AUGER
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	96
2.0	--
1.25	93
0.840	--
0.630	90
0.420	--
0.315	86
0.160	81
0.150	--
0.080	76

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	94
0.420	--
0.315	88
0.160	77
0.150	--
0.080	65

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	97
0.840	--
0.630	96
0.420	--
0.315	95
0.160	94
0.150	--
0.080	92

M.C. (%) : 102

M.C. (%) : 67

M.C. (%) : 158

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 24
 % FINES: 76

% GRAVEL: 0
 % SAND: 35
 % FINES: 65

% GRAVEL: 0
 % SAND: 8
 % FINES: 92

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILT (ML)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-167
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1884+200 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.23

FIELD NO: 417
 LAB NO: 1393
 DEPTH: 0.9-1.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	99
5.0	97
2.5	92
2.0	--
1.25	85
0.840	--
0.630	77
0.420	--
0.315	66
0.160	50
0.150	--
0.080	36

M.C. (%) : 55

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 3
 % SAND: 61
 % FINES: 36

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-168
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1884+100 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.23

FIELD NO: 418
 LAB NO: 1394
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 419
 LAB NO: 1395
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 420
 LAB NO: 1396
 DEPTH: 4.0-4.2
 TYPE: AUGER
 ORGANIC

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	87
20.0	80
12.5	68
10.0	62
5.0	49
2.5	41
2.0	--
1.25	34
0.840	--
0.630	30
0.420	--
0.315	25
0.160	21
0.150	--
0.080	17

M.C. (%) : 13

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 51
 % SAND: 32
 % FINES: 17

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	100
5.0	98
2.5	97
2.0	--
1.25	95
0.840	--
0.630	92
0.420	--
0.315	87
0.160	74
0.150	--
0.080	55

M.C. (%) : 45

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 2
 % SAND: 44
 % FINES: 55

CLASSIFICATION:
 SANDY SILT (ML)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	97
2.5	90
2.0	--
1.25	86
0.840	--
0.630	82
0.420	--
0.315	76
0.160	65
0.150	--
0.080	48

M.C. (%) : 59

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 3
 % SAND: 49
 % FINES: 48

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-169
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1884+000 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.23

FIELD NO: 421
 LAB NO: 1397
 DEPTH: 0.9-1.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	94
12.5	76
10.0	62
5.0	40
2.5	29
2.0	--
1.25	23
0.840	--
0.630	19
0.420	--
0.315	15
0.160	11
0.150	--
0.080	8

M.C. (%) : 16

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 60
 % SAND: 32
 % FINES: 8

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-170
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1883+900 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.23

FIELD NO: 422
 LAB NO: 1398
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 423
 LAB NO: 1399
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 424
 LAB NO: 1400
 DEPTH: 3.8-4.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	92
10.0	81
5.0	68
2.5	54
2.0	--
1.25	46
0.840	--
0.630	41
0.420	--
0.315	36
0.160	30
0.150	--
0.080	23

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	98
10.0	94
5.0	88
2.5	81
2.0	--
1.25	76
0.840	--
0.630	72
0.420	--
0.315	66
0.160	56
0.150	--
0.080	45

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	97
5.0	94
2.5	90
2.0	--
1.25	78
0.840	--
0.630	72
0.420	--
0.315	65
0.160	55
0.150	--
0.080	45

M.C. (%) : 18

M.C. (%) : 47

M.C. (%) : 60

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 32
 % SAND: 45
 % FINES: 23

% GRAVEL: 12
 % SAND: 43
 % FINES: 45

% GRAVEL: 6
 % SAND: 49
 % FINES: 45

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-171
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1883+800 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.23

FIELD NO: 425
 LAB NO: 1401
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 426
 LAB NO: 1402
 DEPTH: 2.9-3.1
 TYPE: AUGER

FIELD NO: 427
 LAB NO: 1403
 DEPTH: 3.9-4.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	97
2.0	--
1.25	94
0.840	--
0.630	90
0.420	--
0.315	84
0.160	72
0.150	--
0.080	52

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	93
12.5	78
10.0	75
5.0	62
2.5	52
2.0	--
1.25	45
0.840	--
0.630	40
0.420	--
0.315	34
0.160	28
0.150	--
0.080	22

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	85
10.0	79
5.0	69
2.5	60
2.0	--
1.25	52
0.840	--
0.630	45
0.420	--
0.315	38
0.160	31
0.150	--
0.080	24

M.C. (%) : 75

M.C. (%) : 31

M.C. (%) : 35

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 48
 % FINES: 52

% GRAVEL: 38
 % SAND: 40
 % FINES: 22

% GRAVEL: 31
 % SAND: 45
 % FINES: 24

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-172
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1883+700 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.23

FIELD NO: 428
 LAB NO: 1404
 DEPTH: 0.8-1.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	90
12.5	77
10.0	70
5.0	58
2.5	49
2.0	--
1.25	42
0.840	--
0.630	36
0.420	--
0.315	31
0.160	26
0.150	--
0.080	22

M.C. (%) : 10

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 42
 % SAND: 36
 % FINES: 22

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-173
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1883+600 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.23

FIELD NO: 429
 LAB NO: 1405
 DEPTH: 0.9-1.1
 TYPE: AUGER

FIELD NO: 430
 LAB NO: 1406
 DEPTH: 2.9-3.1
 TYPE: AUGER

FIELD NO: 431
 LAB NO: 1407
 DEPTH: 4.0-4.2
 TYPE: AUGER
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	91
10.0	87
5.0	73
2.5	63
2.0	--
1.25	55
0.840	--
0.630	49
0.420	--
0.315	43
0.160	35
0.150	--
0.080	26

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	77
12.5	51
10.0	45
5.0	34
2.5	27
2.0	--
1.25	23
0.840	--
0.630	19
0.420	--
0.315	15
0.160	12
0.150	--
0.080	9

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	98
10.0	96
5.0	93
2.5	88
2.0	--
1.25	83
0.840	--
0.630	79
0.420	--
0.315	74
0.160	69
0.150	--
0.080	64

M.C. (%) : 31

M.C. (%) : 9

M.C. (%) : 107

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 27
 % SAND: 47
 % FINES: 26

% GRAVEL: 66
 % SAND: 25
 % FINES: 9

% GRAVEL: 7
 % SAND: 29
 % FINES: 64

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-174
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1886+500 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.23

FIELD NO: 432
 LAB NO: 1408
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 433
 LAB NO: 1409
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 434
 LAB NO: 1410
 DEPTH: 4.0-4.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	98
2.0	--
1.25	96
0.840	--
0.630	93
0.420	--
0.315	88
0.160	74
0.150	--
0.080	59

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	92
12.5	89
10.0	86
5.0	75
2.5	67
2.0	--
1.25	60
0.840	--
0.630	55
0.420	--
0.315	48
0.160	41
0.150	--
0.080	32

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	89
12.5	84
10.0	74
5.0	61
2.5	49
2.0	--
1.25	40
0.840	--
0.630	33
0.420	--
0.315	27
0.160	21
0.150	--
0.080	17

M.C. (%) : 76

M.C. (%) : 33

M.C. (%) : 21

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 41
 % FINES: 59

% GRAVEL: 25
 % SAND: 43
 % FINES: 32

% GRAVEL: 39
 % SAND: 45
 % FINES: 17

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-175
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1883+400 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.23

FIELD NO: 435
 LAB NO: 1411
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANIC

FIELD NO: 436
 LAB NO: 1412
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 437
 LAB NO: 1413
 DEPTH: 4.0-4.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	94
10.0	93
5.0	90
2.5	88
2.0	--
1.25	86
0.840	--
0.630	84
0.420	--
0.315	80
0.160	74
0.150	--
0.080	65

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	78
12.5	55
10.0	45
5.0	33
2.5	28
2.0	--
1.25	25
0.840	--
0.630	21
0.420	--
0.315	18
0.160	14
0.150	--
0.080	12

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	98
10.0	96
5.0	85
2.5	76
2.0	--
1.25	68
0.840	--
0.630	60
0.420	--
0.315	52
0.160	42
0.150	--
0.080	33

M.C. (%) : 60

M.C. (%) : 9

M.C. (%) : 37

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 10
 % SAND: 25
 % FINES: 65

% GRAVEL: 67
 % SAND: 21
 % FINES: 12

% GRAVEL: 15
 % SAND: 52
 % FINES: 33

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-176
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1883+300 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.23

FIELD NO: 438
 LAB NO: 1414
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	96
2.0	--
1.25	92
0.840	--
0.630	89
0.420	--
0.315	87
0.160	85
0.150	--
0.080	82

M.C. (%) : --

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 18
 % FINES: 82

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-177
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1883+200 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.23

FIELD NO: 439
 LAB NO: 1415
 DEPTH: 0.8-1.0
 TYPE: AUGER
 ORGANIC

FIELD NO: 440
 LAB NO: 1416
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	98
2.0	--
1.25	96
0.840	--
0.630	93
0.420	--
0.315	88
0.160	70
0.150	--
0.080	58

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	83
12.5	79
10.0	77
5.0	75
2.5	72
2.0	--
1.25	66
0.840	--
0.630	60
0.420	--
0.315	51
0.160	43
0.150	--
0.080	36

M.C. (%) : 72

M.C. (%) : 35

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 42
 % FINES: 58

% GRAVEL: 25
 % SAND: 39
 % FINES: 36

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-178
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: 1883+100 O/S LT
 LOGGED BY: TF DATE COMPLETED: 93.09.23

FIELD NO: 441
 LAB NO: 1417
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 442
 LAB NO: 1418
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 443
 LAB NO: 1419
 DEPTH: 4.0-4.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	96
5.0	89
2.5	83
2.0	--
1.25	78
0.840	--
0.630	72
0.420	--
0.315	65
0.160	56
0.150	--
0.080	47

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	90
12.5	66
10.0	55
5.0	47
2.5	44
2.0	--
1.25	40
0.840	--
0.630	37
0.420	--
0.315	32
0.160	26
0.150	--
0.080	21

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	94
10.0	90
5.0	76
2.5	65
2.0	--
1.25	56
0.840	--
0.630	48
0.420	--
0.315	38
0.160	29
0.150	--
0.080	23

M.C. (%): 44

M.C. (%): 20

M.C. (%): 20

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 11
 % SAND: 42
 % FINES: 47

% GRAVEL: 53
 % SAND: 26
 % FINES: 21

% GRAVEL: 24
 % SAND: 53
 % FINES: 23

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-179
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.24

FIELD NO: 444
 LAB NO: 1420
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 445
 LAB NO: 1421
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 446
 LAB NO: 1422
 DEPTH: 4.0-4.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	83
10.0	79
5.0	73
2.5	68
2.0	--
1.25	65
0.840	--
0.630	60
0.420	--
0.315	50
0.160	39
0.150	--
0.080	30

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	95
10.0	95
5.0	86
2.5	76
2.0	--
1.25	66
0.840	--
0.630	58
0.420	--
0.315	49
0.160	38
0.150	--
0.080	28

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	95
2.5	81
2.0	--
1.25	73
0.840	--
0.630	65
0.420	--
0.315	58
0.160	50
0.150	--
0.080	43

M.C. (%): 31

M.C. (%): 22

M.C. (%): 55

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 27
 % SAND: 42
 % FINES: 30

% GRAVEL: 14
 % SAND: 57
 % FINES: 28

% GRAVEL: 5
 % SAND: 52
 % FINES: 43

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-180
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.24

FIELD NO: 447
 LAB NO: 1423
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 448
 LAB NO: 1424
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 449
 LAB NO: 1425
 DEPTH: 4.0-4.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	95
5.0	85
2.5	73
2.0	--
1.25	61
0.840	--
0.630	50
0.420	--
0.315	37
0.160	27
0.150	--
0.080	20

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	97
2.5	83
2.0	--
1.25	77
0.840	--
0.630	71
0.420	--
0.315	62
0.160	48
0.150	--
0.080	42

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	91
10.0	87
5.0	71
2.5	56
2.0	--
1.25	43
0.840	--
0.630	33
0.420	--
0.315	25
0.160	19
0.150	--
0.080	15

M.C. (%) : 21

M.C. (%) : 43

M.C. (%) : 13

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 15
 % SAND: 64
 % FINES: 20

% GRAVEL: 3
 % SAND: 55
 % FINES: 42

% GRAVEL: 29
 % SAND: 56
 % FINES: 15

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-181
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.24

FIELD NO: 450
 LAB NO: 1426
 DEPTH: 0.9-1.0
 TYPE: AUGER

FIELD NO: 451
 LAB NO: 1427
 DEPTH: 2.9-3.1
 TYPE: AUGER

FIELD NO: 452
 LAB NO: 1428
 DEPTH: 4.0-4.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	91
20.0	91
12.5	88
10.0	87
5.0	85
2.5	84
2.0	--
1.25	81
0.840	--
0.630	76
0.420	--
0.315	68
0.160	58
0.150	--
0.080	54

M.C. (%): 57

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 15
 % SAND: 31
 % FINES: 54

CLASSIFICATION:
 SANDY SILT WITH
 GRAVEL (ML)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	81
12.5	69
10.0	62
5.0	39
2.5	27
2.0	--
1.25	21
0.840	--
0.630	17
0.420	--
0.315	14
0.160	11
0.150	--
0.080	8

M.C. (%): 9

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 61
 % SAND: 31
 % FINES: 8

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	93
10.0	90
5.0	78
2.5	63
2.0	--
1.25	49
0.840	--
0.630	39
0.420	--
0.315	30
0.160	23
0.150	--
0.080	17

M.C. (%): 13

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 22
 % SAND: 61
 % FINES: 17

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-182
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.24

FIELD NO: 453
 LAB NO: 1429
 DEPTH: 0.9-1.1
 TYPE: AUGER

FIELD NO: 454
 LAB NO: 1430
 DEPTH: 2.9-3.1
 TYPE: AUGER

FIELD NO: 455
 LAB NO: 1431
 DEPTH: 4.0-4.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	88
12.5	70
10.0	60
5.0	38
2.5	25
2.0	--
1.25	16
0.840	--
0.630	11
0.420	--
0.315	8
0.160	6
0.150	--
0.080	5

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	91
20.0	84
12.5	66
10.0	55
5.0	26
2.5	14
2.0	--
1.25	10
0.840	--
0.630	9
0.420	--
0.315	8
0.160	6
0.150	--
0.080	5

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	69
12.5	40
10.0	22
5.0	4
2.5	3
2.0	--
1.25	3
0.840	--
0.630	3
0.420	--
0.315	3
0.160	2
0.150	--
0.080	2

M.C. (%) : 2

M.C. (%) : 2

M.C. (%) : 1

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 62
 % SAND: 33
 % FINES: 5

% GRAVEL: 74
 % SAND: 20
 % FINES: 5

% GRAVEL: 96
 % SAND: 3
 % FINES: 2

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL (GP)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-183
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.24

FIELD NO: 456
 LAB NO: 1432
 DEPTH: 0.9-1.1
 TYPE: AUGER

FIELD NO: 457
 LAB NO: 1433
 DEPTH: 2.9-3.1
 TYPE: AUGER

FIELD NO: 458
 LAB NO: 1434
 DEPTH: 4.0-4.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	92
12.5	82
10.0	77
5.0	67
2.5	61
2.0	--
1.25	57
0.840	--
0.630	52
0.420	--
0.315	42
0.160	27
0.150	--
0.080	19

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	94
12.5	85
10.0	70
5.0	63
2.5	44
2.0	--
1.25	36
0.840	--
0.630	31
0.420	--
0.315	28
0.160	23
0.150	--
0.080	17

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	92
12.5	80
10.0	78
5.0	69
2.5	60
2.0	--
1.25	51
0.840	--
0.630	44
0.420	--
0.315	36
0.160	28
0.150	--
0.080	21

M.C. (%) : 25

M.C. (%) : 17

M.C. (%) : 26

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 33
 % SAND: 48
 % FINES: 19

% GRAVEL: 37
 % SAND: 46
 % FINES: 17

% GRAVEL: 31
 % SAND: 48
 % FINES: 21

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-184
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.24

FIELD NO: 459
 LAB NO: 1435
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 460
 LAB NO: 1436
 DEPTH: 2.9-3.0
 TYPE: AUGER
 ORGANIC

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	97
10.0	96
5.0	90
2.5	82
2.0	--
1.25	72
0.840	--
0.630	62
0.420	--
0.315	49
0.160	32
0.150	--
0.080	20

M.C. (%) : 30

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 10
 % SAND: 71
 % FINES: 20

CLASSIFICATION:
 SILTY SAND (SM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	96
2.0	--
1.25	92
0.840	--
0.630	89
0.420	--
0.315	87
0.160	86
0.150	--
0.080	83

M.C. (%) : 200

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 17
 % FINES: 83

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-185
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.24

FIELD NO: 461
 LAB NO: 1437
 DEPTH: 0.9-1.1
 TYPE: AUGER

FIELD NO: 462
 LAB NO: 1438
 DEPTH: 2.9-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	80
12.5	74
10.0	70
5.0	56
2.5	44
2.0	--
1.25	35
0.840	--
0.630	29
0.420	--
0.315	23
0.160	16
0.150	--
0.080	10

M.C. (%): 8

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 44
 % SAND: 46
 % FINES: 10

CLASSIFICATION:
 WELL-GRADED SAND
 WITH SILT &
 GRAVEL (SW-SM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	74
20.0	60
12.5	40
10.0	36
5.0	27
2.5	23
2.0	--
1.25	19
0.840	--
0.630	15
0.420	--
0.315	11
0.160	8
0.150	--
0.080	5

M.C. (%): 6

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 73
 % SAND: 22
 % FINES: 5

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-186
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.24

FIELD NO: 463
 LAB NO: 1439
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 464
 LAB NO: 1440
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 465
 LAB NO: 1441
 DEPTH: 4.0-4.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	82
20.0	72
12.5	57
10.0	51
5.0	45
2.5	39
2.0	--
1.25	35
0.840	--
0.630	29
0.420	--
0.315	21
0.160	13
0.150	--
0.080	8

M.C. (%) : 9

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 55
 % SAND: 37
 % FINES: 8

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	64
12.5	58
10.0	55
5.0	48
2.5	41
2.0	--
1.25	35
0.840	--
0.630	29
0.420	--
0.315	22
0.160	16
0.150	--
0.080	12

M.C. (%) : 15

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 52
 % SAND: 36
 % FINES: 12

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	95
10.0	92
5.0	81
2.5	69
2.0	--
1.25	56
0.840	--
0.630	45
0.420	--
0.315	35
0.160	25
0.150	--
0.080	18

M.C. (%) : 17

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 19
 % SAND: 63
 % FINES: 18

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-187
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.24

FIELD NO: 466
 LAB NO: 1442
 DEPTH: 0.8-1.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	72
20.0	68
12.5	59
10.0	52
5.0	36
2.5	26
2.0	--
1.25	19
0.840	--
0.630	14
0.420	--
0.315	9
0.160	6
0.150	--
0.080	5

M.C. (%) : 11

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 64
 % SAND: 31
 % FINES: 5

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-188
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.24

FIELD NO: 467
 LAB NO: 1443
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 468
 LAB NO: 1444
 DEPTH: 2.9-3.1
 TYPE: AUGER

FIELD NO: 469
 LAB NO: 1445
 DEPTH: 4.0-4.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	90
20.0	84
12.5	65
10.0	60
5.0	50
2.5	43
2.0	--
1.25	38
0.840	--
0.630	34
0.420	--
0.315	27
0.160	20
0.150	--
0.080	15

M.C. (%) : 17

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 50
 % SAND: 36
 % FINES: 15

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	90
20.0	86
12.5	60
10.0	52
5.0	36
2.5	32
2.0	--
1.25	29
0.840	--
0.630	27
0.420	--
0.315	25
0.160	21
0.150	--
0.080	16

M.C. (%) : 21

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 64
 % SAND: 20
 % FINES: 16

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	86
10.0	81
5.0	64
2.5	50
2.0	--
1.25	42
0.840	--
0.630	36
0.420	--
0.315	30
0.160	25
0.150	--
0.080	20

M.C. (%) : 27

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 36
 % SAND: 45
 % FINES: 20

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-189
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.24

FIELD NO: 470
 LAB NO: 1446
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 471
 LAB NO: 1447
 DEPTH: 2.9-3.1
 TYPE: AUGER

FIELD NO: 472
 LAB NO: 1448
 DEPTH: 3.9-4.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	76
20.0	71
12.5	62
10.0	58
5.0	49
2.5	41
2.0	--
1.25	36
0.840	--
0.630	32
0.420	--
0.315	26
0.160	18
0.150	--
0.080	12

M.C. (%) : 9

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 51
 % SAND: 37
 % FINES: 12

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	80
12.5	54
10.0	38
5.0	21
2.5	18
2.0	--
1.25	17
0.840	--
0.630	16
0.420	--
0.315	14
0.160	11
0.150	--
0.080	8

M.C. (%) : 13

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 79
 % SAND: 13
 % FINES: 8

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 (GP-GM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	96
0.420	--
0.315	93
0.160	83
0.150	--
0.080	82

M.C. (%) : 178

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 18
 % FINES: 82

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-190
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.24

FIELD NO: 473
 LAB NO: 1449
 DEPTH: 1.3-1.5
 TYPE: AUGER
 ORGANIC

FIELD NO: 474
 LAB NO: 1450
 DEPTH: 2.9-3.1
 TYPE: AUGER

FIELD NO: 475
 LAB NO: 1451
 DEPTH: 4.6-4.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	94
2.0	--
1.25	91
0.840	--
0.630	89
0.420	--
0.315	88
0.160	86
0.150	--
0.080	83

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	85
10.0	75
5.0	50
2.5	38
2.0	--
1.25	30
0.840	--
0.630	25
0.420	--
0.315	20
0.160	15
0.150	--
0.080	12

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	91
12.5	75
10.0	68
5.0	52
2.5	43
2.0	--
1.25	37
0.840	--
0.630	34
0.420	--
0.315	30
0.160	25
0.150	--
0.080	20

M.C. (%) : 94

M.C. (%) : 8

M.C. (%) : 11

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 17
 % FINES: 83

% GRAVEL: 50
 % SAND: 39
 % FINES: 12

% GRAVEL: 48
 % SAND: 31
 % FINES: 20

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-191
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.24

FIELD NO: 476
 LAB NO: 1452
 DEPTH: 3.0-3.2
 TYPE: AUGER

FIELD NO: 477
 LAB NO: 1453
 DEPTH: 5.9-6.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	91
12.5	85
10.0	79
5.0	67
2.5	62
2.0	--
1.25	59
0.840	--
0.630	56
0.420	--
0.315	52
0.160	46
0.150	--
0.080	38

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	84
12.5	60
10.0	49
5.0	30
2.5	22
2.0	--
1.25	19
0.840	--
0.630	17
0.420	--
0.315	15
0.160	13
0.150	--
0.080	11

M.C. (%) : 14

M.C. (%) : 8

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 33
 % SAND: 29
 % FINES: 38

% GRAVEL: 70
 % SAND: 19
 % FINES: 11

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-192
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.25

FIELD NO: 478
 LAB NO: 1454
 DEPTH: 2.9-3.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	84
10.0	76
5.0	52
2.5	43
2.0	--
1.25	37
0.840	--
0.630	33
0.420	--
0.315	28
0.160	24
0.150	--
0.080	19

M.C. (%) : 10

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 48
 % SAND: 33
 % FINES: 19

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-195
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.25

FIELD NO: 479
 LAB NO: 1455
 DEPTH: 1.7-1.9
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	73
12.5	45
10.0	33
5.0	22
2.5	18
2.0	--
1.25	16
0.840	--
0.630	14
0.420	--
0.315	11
0.160	9
0.150	--
0.080	6

M.C. (%) : 7

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 78
 % SAND: 15
 % FINES: 6

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-196
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.25

FIELD NO: 480
 LAB NO: 1456
 DEPTH: 0.8-1.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	93
12.5	75
10.0	68
5.0	56
2.5	47
2.0	--
1.25	40
0.840	--
0.630	33
0.420	--
0.315	26
0.160	20
0.150	--
0.080	15

M.C. (%) : 19

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 44
 % SAND: 42
 % FINES: 15

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-197
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.25

FIELD NO: 481
 LAB NO: 1457
 DEPTH: 0.9-1.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	95
12.5	85
10.0	73
5.0	47
2.5	34
2.0	--
1.25	25
0.840	--
0.630	20
0.420	--
0.315	15
0.160	12
0.150	--
0.080	10

M.C. (%) : 13

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 53
 % SAND: 38
 % FINES: 10

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-198
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.25

FIELD NO: 481
 LAB NO: 1458
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 482
 LAB NO: 1459
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 483
 LAB NO: 1460
 DEPTH: 4.9-5.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	61
12.5	26
10.0	18
5.0	12
2.5	11
2.0	--
1.25	10
0.840	--
0.630	9
0.420	--
0.315	8
0.160	7
0.150	--
0.080	5

M.C. (%) : 3

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 88
 % SAND: 6
 % FINES: 5

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 (GP-GM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	79
20.0	58
12.5	44
10.0	37
5.0	30
2.5	28
2.0	--
1.25	26
0.840	--
0.630	25
0.420	--
0.315	23
0.160	20
0.150	--
0.080	16

M.C. (%) : 15

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 70
 % SAND: 13
 % FINES: 16

CLASSIFICATION:
 SILTY GRAVEL (GM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	72
20.0	53
12.5	36
10.0	30
5.0	25
2.5	23
2.0	--
1.25	21
0.840	--
0.630	20
0.420	--
0.315	18
0.160	16
0.150	--
0.080	13

M.C. (%) : 11

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 75
 % SAND: 12
 % FINES: 13

CLASSIFICATION:
 SILTY GRAVEL (GM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-199
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.25

FIELD NO: 484
 LAB NO: 1461
 DEPTH: 3.8-4.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	71
20.0	59
12.5	43
10.0	38
5.0	29
2.5	24
2.0	--
1.25	22
0.840	--
0.630	19
0.420	--
0.315	16
0.160	14
0.150	--
0.080	11

M.C. (%) : 7

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 71
 % SAND: 17
 % FINES: 11

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

PROJECT NUMBER: 202101-0312-193 HOLE NUMBER: 253-200
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: CME 750
 HOLE LOCATION: SEE PLAN
 LOGGED BY: TF DATE COMPLETED: 93.09.25

FIELD NO: 485
 LAB NO: 1462
 DEPTH: 0.9-1.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	96
0.840	--
0.630	92
0.420	--
0.315	86
0.160	75
0.150	--
0.080	59

M.C. (%) : 119

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 41
 % FINES: 59

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0311-193 HOLE NUMBER: 259-54
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: BACKHOE: CAT 235
 HOLE LOCATION: SEE PLAN
 LOGGED BY: DT DATE COMPLETED: 93.10.05

FIELD NO: 111
 LAB NO: 1841
 DEPTH: 1.3-1.7
 TYPE: BULK

FIELD NO: 112
 LAB NO: 1842
 DEPTH: 4.2-4.6
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	71
20.0	60
12.5	50
10.0	45
5.0	27
2.5	18
2.0	--
1.25	13
0.840	--
0.630	10
0.420	--
0.315	7
0.160	6
0.150	--
0.080	5

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	76
31.5	--
25.0	68
20.0	60
12.5	46
10.0	40
5.0	25
2.5	14
2.0	--
1.25	8
0.840	--
0.630	5
0.420	--
0.315	4
0.160	4
0.150	--
0.080	3

M.C. (%) : 3

M.C. (%) : 3

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 73
 % SAND: 22
 % FINES: 5

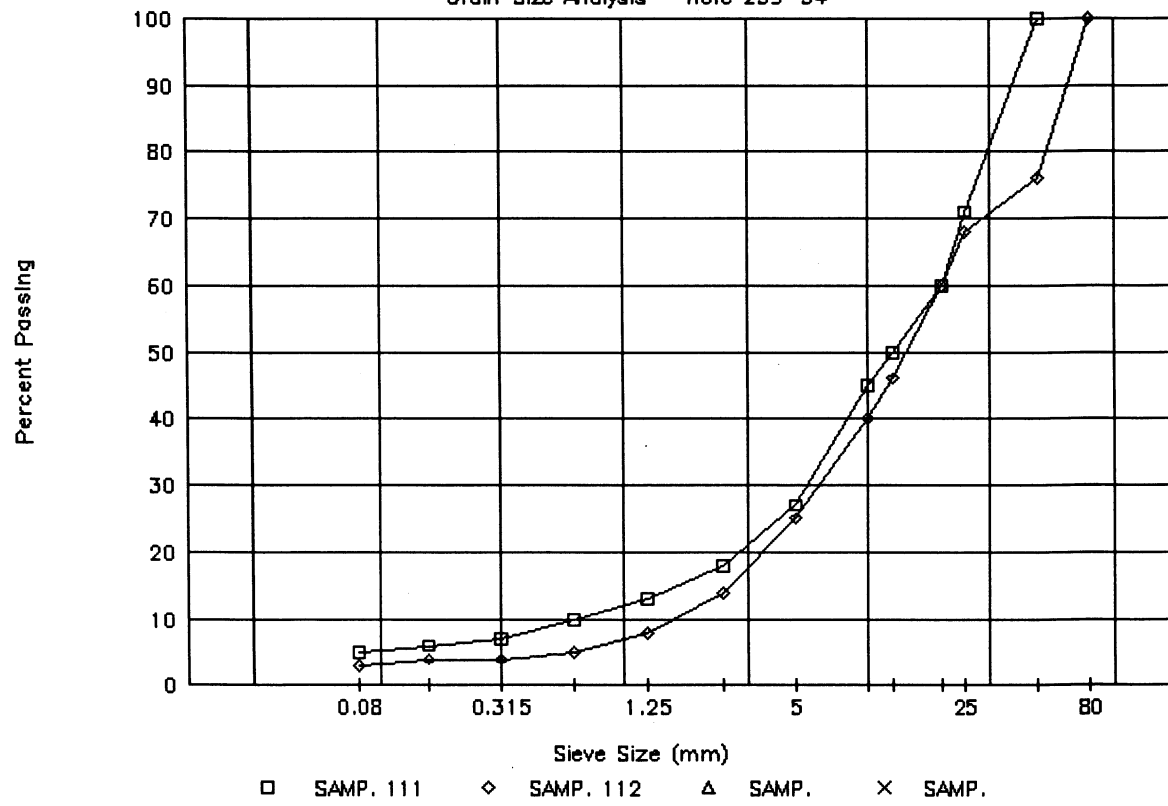
% GRAVEL: 75
 % SAND: 22
 % FINES: 3

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 259-54



PROJECT NUMBER: 092-202101-0311-193 HOLE NUMBER: 259-55
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: BACKHOE: CAT 235
 HOLE LOCATION: SEE PLAN
 LOGGED BY: DT DATE COMPLETED: 93.10.05

FIELD NO: 113
 LAB NO: 1843
 DEPTH: 0.8-1.2
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	81
20.0	58
12.5	38
10.0	26
5.0	10
2.5	5
2.0	--
1.25	4
0.840	--
0.630	3
0.420	--
0.315	2
0.160	2
0.150	--
0.080	2

M.C. (%): 2

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 90
 % SAND: 9
 % FINES: 2

CLASSIFICATION:
 WELL-GRADED
 GRAVEL (GW)

PROJECT NUMBER: 092-202101-0311-193 HOLE NUMBER: 259-56
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: BACKHOE: CAT 235
 HOLE LOCATION: SEE PLAN
 LOGGED BY: DT DATE COMPLETED: 93.10.06

FIELD NO: 114
 LAB NO: 1844
 DEPTH: 1.3-1.7
 TYPE: BULK

FIELD NO: 115
 LAB NO: 1845
 DEPTH: 4.0-4.4
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	91
20.0	88
12.5	67
10.0	59
5.0	35
2.5	19
2.0	--
1.25	12
0.840	--
0.630	10
0.420	--
0.315	8
0.160	7
0.150	--
0.080	6

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	66
12.5	59
10.0	52
5.0	30
2.5	18
2.0	--
1.25	12
0.840	--
0.630	10
0.420	--
0.315	8
0.160	5
0.150	--
0.080	4

M.C. (%) : 4

M.C. (%) : 3

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 65
 % SAND: 28
 % FINES: 6

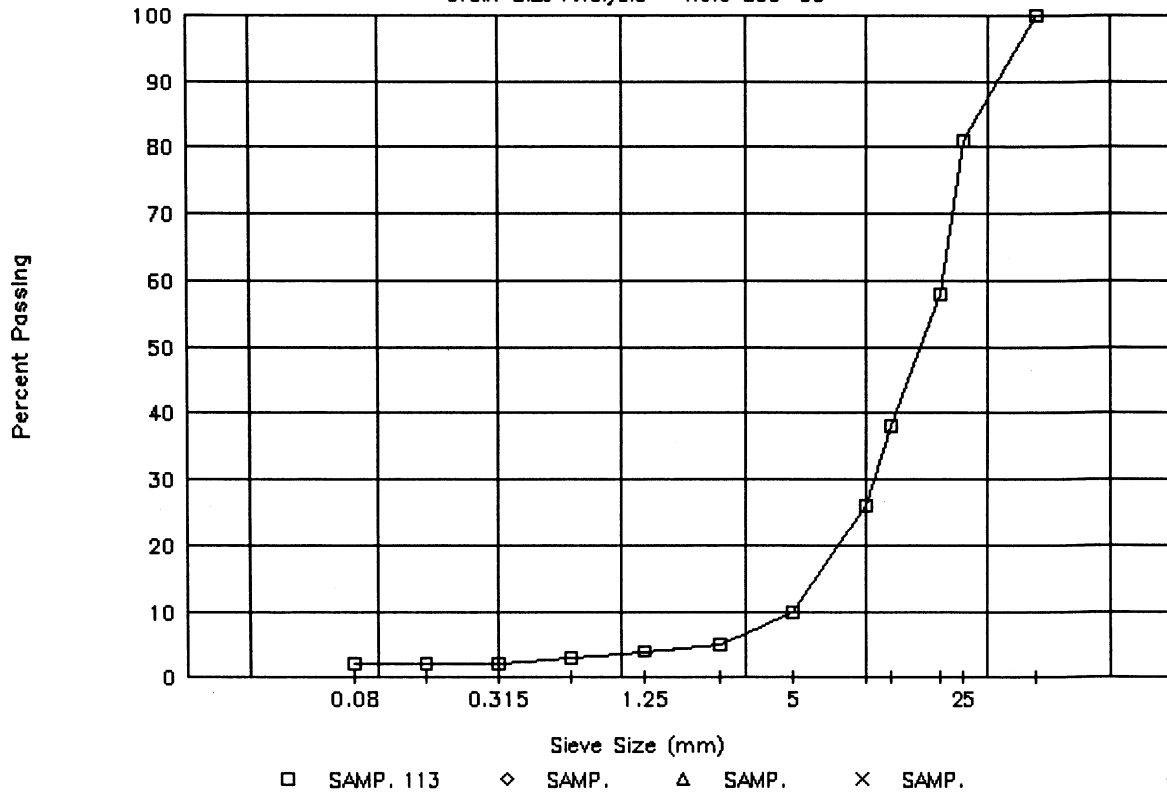
% GRAVEL: 70
 % SAND: 26
 % FINES: 4

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

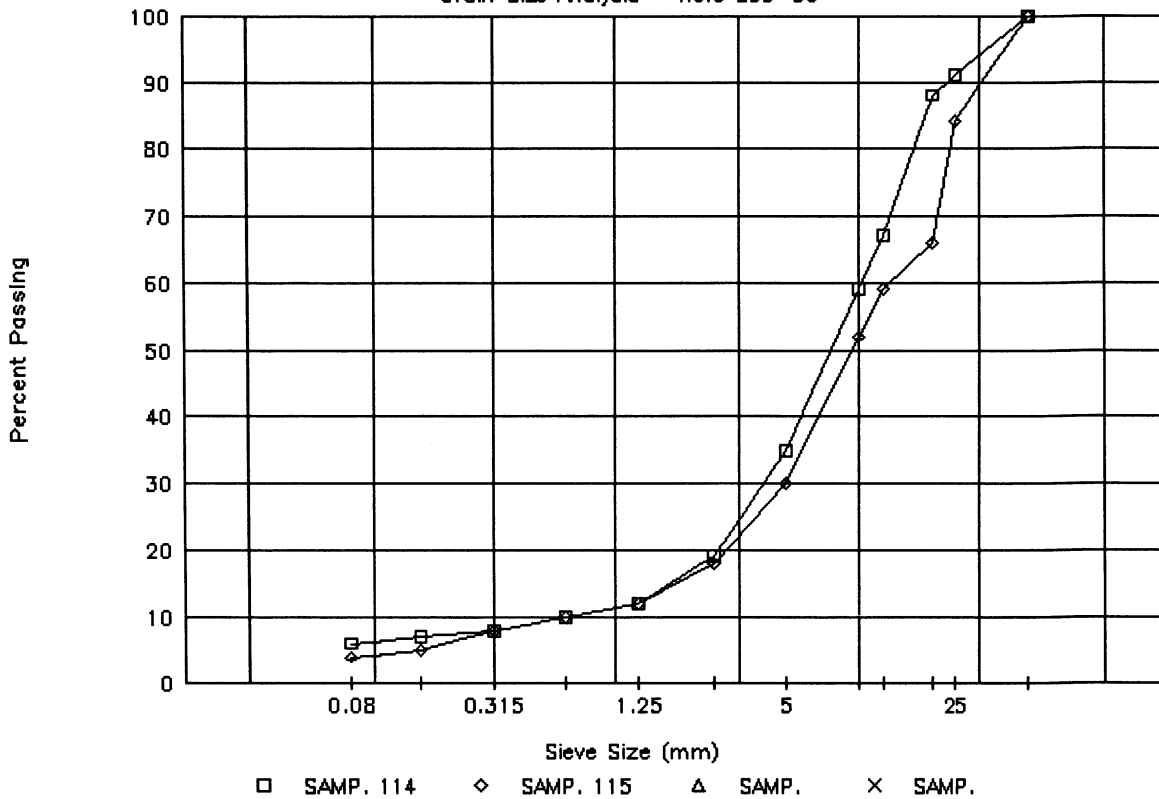
Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 259-55



Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 259-56



PROJECT NUMBER: 092-202101-0311-193 HOLE NUMBER: 259-57
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: BACKHOE: CAT 235
 HOLE LOCATION: SEE PLAN
 LOGGED BY: DT DATE COMPLETED: 93.10.06

FIELD NO: 116
 LAB NO: 1846
 DEPTH: 0.7-1.1
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	80
31.5	--
25.0	56
20.0	51
12.5	35
10.0	28
5.0	13
2.5	5
2.0	--
1.25	2
0.840	--
0.630	1
0.420	--
0.315	1
0.160	1
0.150	--
0.080	1

M.C. (%): 2

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 87
 % SAND: 12
 % FINES: 1

CLASSIFICATION:
 WELL-GRADED
 GRAVEL (GW)

PROJECT NUMBER: 092-202101-0311-193 HOLE NUMBER: 259-58
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: BACKHOE: CAT 235
 HOLE LOCATION: SEE PLAN
 LOGGED BY: DT DATE COMPLETED: 93.10.06

FIELD NO: 117
 LAB NO: 1847
 DEPTH: 1.5-1.9
 TYPE: BULK

FIELD NO: 118
 LAB NO: 1848
 DEPTH: 3.4-3.8
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	81
12.5	50
10.0	38
5.0	17
2.5	9
2.0	--
1.25	6
0.840	--
0.630	4
0.420	--
0.315	4
0.160	3
0.150	--
0.080	2

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	70
20.0	60
12.5	43
10.0	33
5.0	16
2.5	10
2.0	--
1.25	7
0.840	--
0.630	5
0.420	--
0.315	4
0.160	3
0.150	--
0.080	3

M.C. (%) : 2

M.C. (%) : 2

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 83
 % SAND: 14
 % FINES: 2

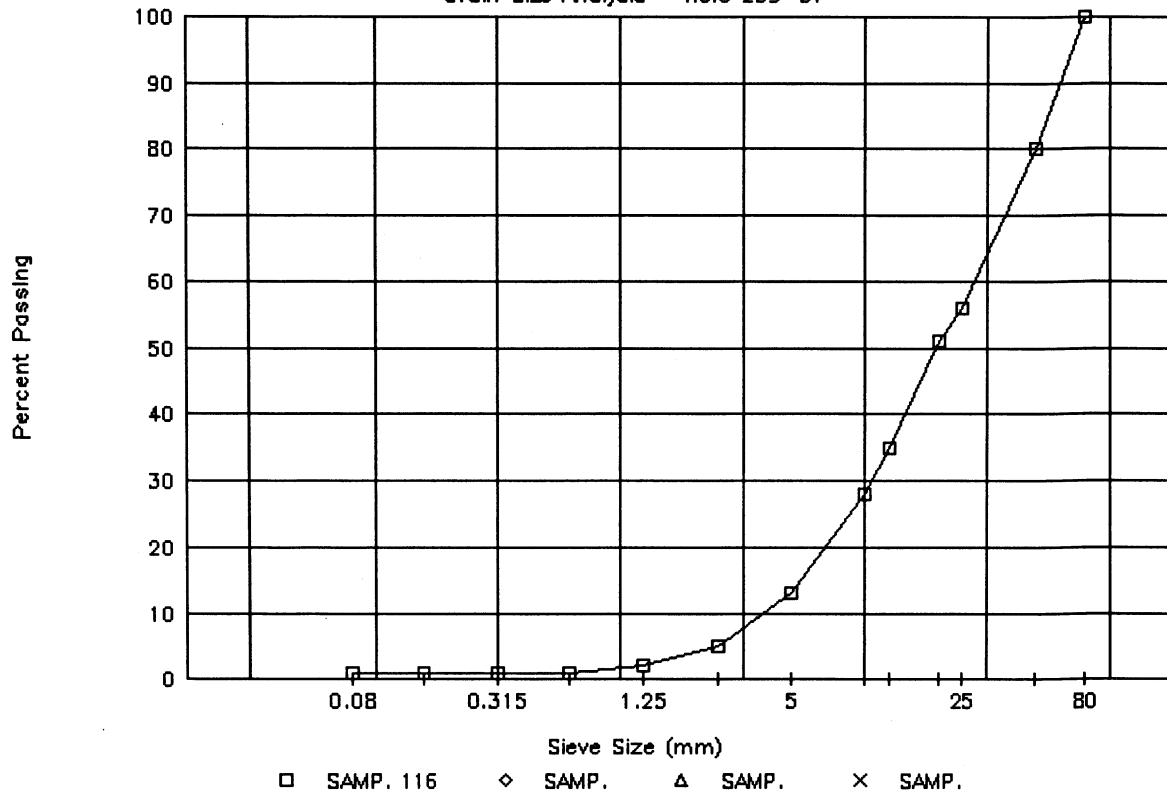
% GRAVEL: 84
 % SAND: 13
 % FINES: 3

CLASSIFICATION:
 WELL-GRADED
 GRAVEL (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL (GW)

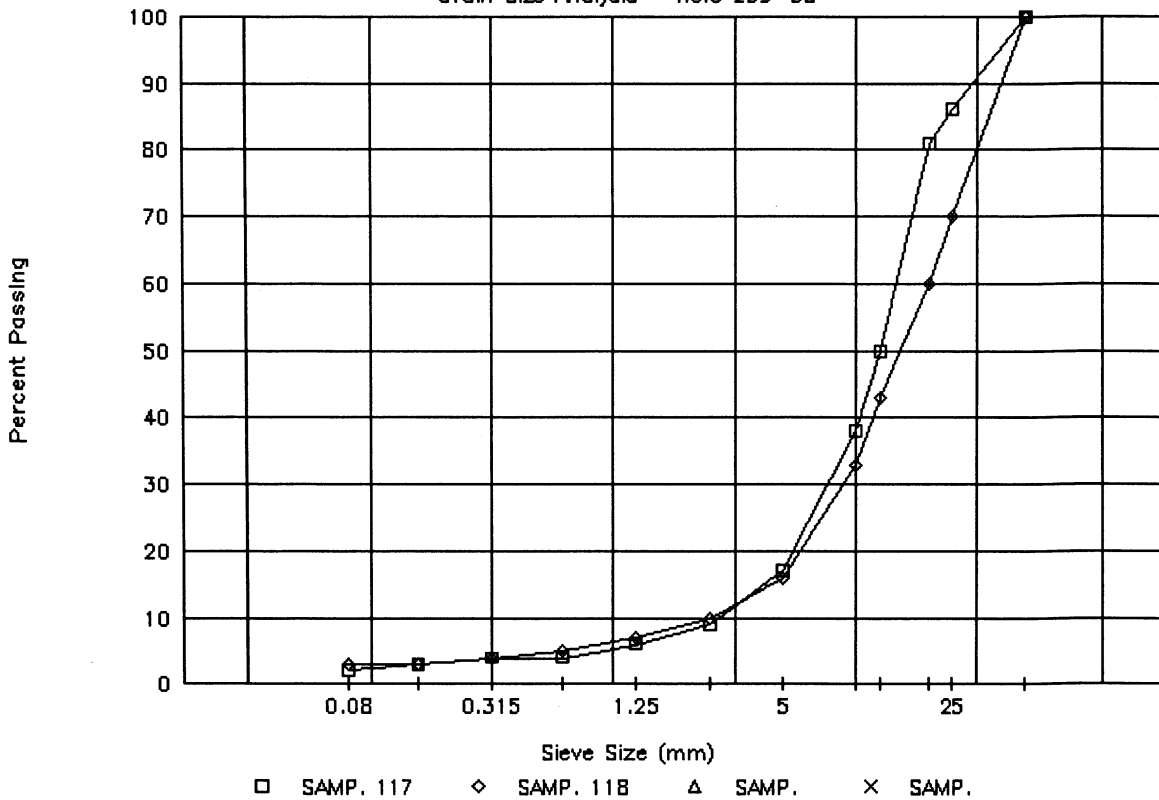
Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 259-57



Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 259-58



PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 301-10
 CLIENT: SHAKWAK PROJECT
 PROJECT NAME: SEGMENT 16
 PROJECT LOCATION: A/H KM 1892-1895
 DRILL UNIT: 36-002
 HOLE LOCATION: SEE PLAN
 LOGGED BY: DA DATE COMPLETED: 94.07.07

FIELD NO: 29
 LAB NO: 875
 DEPTH: 0.8-1.2
 TYPE: AUGER
 ORGANICS

FIELD NO: 30
 LAB NO: 876
 DEPTH: 2.0-2.4
 TYPE: AUGER

FIELD NO: 31
 LAB NO: 877
 DEPTH: 3.0-3.4
 TYPE: AUGER
 ORGANICS

FIELD NO: 32
 LAB NO: 878
 DEPTH: 5.4-5.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	99
2.5	99
2.0	--
1.25	98
0.840	--
0.630	97
0.420	--
0.315	95
0.160	91
0.150	--
0.080	86

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	96
2.0	--
1.25	92
0.840	--
0.630	89
0.420	--
0.315	84
0.160	70
0.150	--
0.080	59

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	97
0.840	--
0.630	94
0.420	--
0.315	91
0.160	88
0.150	--
0.080	85

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	91
10.0	84
5.0	63
2.5	52
2.0	--
1.25	43
0.840	--
0.630	37
0.420	--
0.315	31
0.160	27
0.150	--
0.080	23

M.C. (%): 83

M.C. (%): 66

M.C. (%): 113

M.C. (%): 18

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 1
 % SAND: 13
 % FINES: 86

% GRAVEL: 0
 % SAND: 41
 % FINES: 59

% GRAVEL: 0
 % SAND: 15
 % FINES: 85

% GRAVEL: 37
 % SAND: 40
 % FINES: 23

CLASSIFICATION:
 SILT (ML)

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 301-11
 CLIENT: SHAKWAK PROJECT
 PROJECT NAME: SEGMENT 16
 PROJECT LOCATION: A/H KM 1892-1895
 DRILL UNIT: 36-002
 HOLE LOCATION: SEE PLAN
 LOGGED BY: DA DATE COMPLETED: 94.07.07

FIELD NO: 33
 LAB NO: 879
 DEPTH: 0.6-1.0
 TYPE: AUGER

FIELD NO: 34
 LAB NO: 880
 DEPTH: 3.0-3.4
 TYPE: AUGER
 ORGANICS

FIELD NO: 35
 LAB NO: 881
 DEPTH: 4.4-4.8
 TYPE: AUGER

FIELD NO: 36
 LAB NO: 882
 DEPTH: 5.8-6.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	98
5.0	88
2.5	78
2.0	--
1.25	62
0.840	--
0.630	43
0.420	--
0.315	21
0.160	12
0.150	--
0.080	9

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	100
2.5	98
2.0	--
1.25	94
0.840	--
0.630	86
0.420	--
0.315	77
0.160	68
0.150	--
0.080	55

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	91
10.0	87
5.0	77
2.5	67
2.0	--
1.25	59
0.840	--
0.630	51
0.420	--
0.315	44
0.160	38
0.150	--
0.080	29

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	97
0.840	--
0.630	94
0.420	--
0.315	91
0.160	89
0.150	--
0.080	84

M.C. (%): 8

M.C. (%): 99

M.C. (%): 18

M.C. (%): 105

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 12
 % SAND: 80
 % FINES: 9

% GRAVEL: 0
 % SAND: 44
 % FINES: 55

% GRAVEL: 23
 % SAND: 47
 % FINES: 29

% GRAVEL: 0
 % SAND: 16
 % FINES: 84

CLASSIFICATION:
 WELL-GRADED SAND
 WITH SILT (SW-SM)

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 301-11
 CLIENT: SHAKWAK PROJECT
 PROJECT NAME: SEGMENT 16
 PROJECT LOCATION: A/H KM 1892-1895
 DRILL UNIT: 36-002
 HOLE LOCATION: SEE PLAN
 LOGGED BY: DA DATE COMPLETED: 94.07.07

FIELD NO: 37
 LAB NO: 883
 DEPTH: 8.8-9.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	99
2.5	97
2.0	--
1.25	92
0.840	--
0.630	84
0.420	--
0.315	74
0.160	63
0.150	--
0.080	51

M.C. (%) : 44

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 1
 % SAND: 49
 % FINES: 51

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 301-12
 CLIENT: SHAKWAK PROJECT
 PROJECT NAME: SEGMENT 16
 PROJECT LOCATION: A/H KM 1892-1895
 DRILL UNIT: 36-002
 HOLE LOCATION: SEE PLAN
 LOGGED BY: DA DATE COMPLETED: 94.07.07

FIELD NO: 38
 LAB NO: 884
 DEPTH: 1.8-2.2
 TYPE: AUGER
 ORGANICS

FIELD NO: 39
 LAB NO: 885
 DEPTH: 3.0-3.4
 TYPE: AUGER

FIELD NO: 40
 LAB NO: 886
 DEPTH: 4.8-5.0
 TYPE: AUGER
 ORGANICS

FIELD NO: 41
 LAB NO: 887
 DEPTH: 9.0-9.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	88
20.0	81
12.5	78
10.0	77
5.0	72
2.5	67
2.0	--
1.25	63
0.840	--
0.630	57
0.420	--
0.315	49
0.160	42
0.150	--
0.080	35

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	83
20.0	83
12.5	76
10.0	74
5.0	66
2.5	60
2.0	--
1.25	55
0.840	--
0.630	51
0.420	--
0.315	45
0.160	39
0.150	--
0.080	34

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	86
12.5	79
10.0	76
5.0	69
2.5	63
2.0	--
1.25	59
0.840	--
0.630	54
0.420	--
0.315	49
0.160	43
0.150	--
0.080	36

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	96
10.0	92
5.0	75
2.5	59
2.0	--
1.25	46
0.840	--
0.630	36
0.420	--
0.315	29
0.160	24
0.150	--
0.080	19

M.C. (%) : 31

M.C. (%) : 21

M.C. (%) : 23

M.C. (%) : 8

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 28
 % SAND: 38
 % FINES: 35

% GRAVEL: 34
 % SAND: 32
 % FINES: 34

% GRAVEL: 31
 % SAND: 33
 % FINES: 36

% GRAVEL: 25
 % SAND: 57
 % FINES: 19

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 301-13
 CLIENT: SHAKWAK PROJECT
 PROJECT NAME: SEGMENT 16
 PROJECT LOCATION: A/H KM 1892-1895
 DRILL UNIT: 36-002
 HOLE LOCATION: SEE PLAN
 LOGGED BY: DA DATE COMPLETED: 94.07.07

FIELD NO: 42
 LAB NO: 888
 DEPTH: 0.8-1.2
 TYPE: AUGER

FIELD NO: 43
 LAB NO: 889
 DEPTH: 2.0-2.4
 TYPE: AUGER

FIELD NO: 44
 LAB NO: 890
 DEPTH: 3.2-3.4
 TYPE: AUGER

FIELD NO: 45
 LAB NO: 891
 DEPTH: 4.8-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	81
20.0	81
12.5	72
10.0	69
5.0	61
2.5	56
2.0	--
1.25	51
0.840	--
0.630	45
0.420	--
0.315	39
0.160	30
0.150	--
0.080	23

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	91
20.0	90
12.5	83
10.0	77
5.0	63
2.5	54
2.0	--
1.25	47
0.840	--
0.630	39
0.420	--
0.315	31
0.160	24
0.150	--
0.080	18

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	96
12.5	89
10.0	84
5.0	72
2.5	63
2.0	--
1.25	55
0.840	--
0.630	49
0.420	--
0.315	42
0.160	35
0.150	--
0.080	29

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	85
12.5	74
10.0	69
5.0	60
2.5	53
2.0	--
1.25	48
0.840	--
0.630	44
0.420	--
0.315	39
0.160	34
0.150	--
0.080	29

M.C. (%) : 11

M.C. (%) : 7

M.C. (%) : 12

M.C. (%) : 10

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 39
 % SAND: 38
 % FINES: 23

% GRAVEL: 37
 % SAND: 46
 % FINES: 18

% GRAVEL: 28
 % SAND: 43
 % FINES: 29

% GRAVEL: 40
 % SAND: 31
 % FINES: 29

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 301-14
 CLIENT: SHAKWAK PROJECT
 PROJECT NAME: SEGMENT 16
 PROJECT LOCATION: A/H KM 1892-1895
 DRILL UNIT: 36-002
 HOLE LOCATION: SEE PLAN
 LOGGED BY: DA DATE COMPLETED: 94.07.07

FIELD NO: 46
 LAB NO: 892
 DEPTH: 1.2-1.6
 TYPE: AUGER

FIELD NO: 47
 LAB NO: 893
 DEPTH: 2.2-2.6
 TYPE: AUGER

FIELD NO: 48
 LAB NO: 894
 DEPTH: 3.0-3.4
 TYPE: AUGER

FIELD NO: 49
 LAB NO: 895
 DEPTH: 4.6-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	94
10.0	91
5.0	85
2.5	81
2.0	--
1.25	79
0.840	--
0.630	77
0.420	--
0.315	61
0.160	40
0.150	--
0.080	31

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	90
12.5	85
10.0	83
5.0	79
2.5	75
2.0	--
1.25	72
0.840	--
0.630	70
0.420	--
0.315	61
0.160	46
0.150	--
0.080	36

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	91
10.0	87
5.0	74
2.5	66
2.0	--
1.25	61
0.840	--
0.630	57
0.420	--
0.315	51
0.160	41
0.150	--
0.080	33

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	91
12.5	82
10.0	79
5.0	67
2.5	57
2.0	--
1.25	50
0.840	--
0.630	44
0.420	--
0.315	37
0.160	32
0.150	--
0.080	27

M.C. (%) : 16

M.C. (%) : 18

M.C. (%) : 17

M.C. (%) : 10

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 15
 % SAND: 54
 % FINES: 31

% GRAVEL: 21
 % SAND: 43
 % FINES: 36

% GRAVEL: 26
 % SAND: 41
 % FINES: 33

% GRAVEL: 33
 % SAND: 40
 % FINES: 27

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 301-20
 CLIENT: SHAKWAK PROJECT
 PROJECT NAME: SEGMENT 16
 PROJECT LOCATION: A/H KM 1892-1895
 DRILL UNIT: 36-002
 HOLE LOCATION: SEE PLAN
 LOGGED BY: DA DATE COMPLETED: 94.07.11

FIELD NO: 62
 LAB NO: 908
 DEPTH: 0.8-1.2
 TYPE: AUGER
 ORGANIC

FIELD NO: 63
 LAB NO: 909
 DEPTH: 2.0-2.2
 TYPE: AUGER
 ORGANIC

FIELD NO: 64
 LAB NO: 910
 DEPTH: 2.8-3.2
 TYPE: AUGER
 ORGANIC

FIELD NO: 65
 LAB NO: 911
 DEPTH: 4.6-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	92
12.5	89
10.0	88
5.0	78
2.5	71
2.0	--
1.25	67
0.840	--
0.630	64
0.420	--
0.315	60
0.160	55
0.150	--
0.080	48

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	99
2.5	97
2.0	--
1.25	95
0.840	--
0.630	92
0.420	--
0.315	88
0.160	84
0.150	--
0.080	77

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	97
0.160	96
0.150	--
0.080	94

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	89
12.5	77
10.0	73
5.0	62
2.5	56
2.0	--
1.25	51
0.840	--
0.630	47
0.420	--
0.315	43
0.160	38
0.150	--
0.080	33

M.C. (%) : 59

M.C. (%) : 120

M.C. (%) : 161

M.C. (%) : 17

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 22
 % SAND: 30
 % FINES: 48

% GRAVEL: 1
 % SAND: 22
 % FINES: 77

% GRAVEL: 0
 % SAND: 6
 % FINES: 94

% GRAVEL: 38
 % SAND: 29
 % FINES: 33

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILT (ML)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 301-21
 CLIENT: SHAKWAK PROJECT
 PROJECT NAME: SEGMENT 16
 PROJECT LOCATION: A/H KM 1892-1895
 DRILL UNIT: 36-002
 HOLE LOCATION: SEE PLAN
 LOGGED BY: DA DATE COMPLETED: 94.07.11

FIELD NO: 66
 LAB NO: 912
 DEPTH: 0.8-1.2
 TYPE: AUGER

FIELD NO: 67
 LAB NO: 913
 DEPTH: 2.0-2.4
 TYPE: AUGER

FIELD NO: 68
 LAB NO: 914
 DEPTH: 3.0-3.4
 TYPE: AUGER

FIELD NO: 69
 LAB NO: 915
 DEPTH: 4.4-4.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	81
10.0	79
5.0	74
2.5	70
2.0	--
1.25	66
0.840	--
0.630	63
0.420	--
0.315	60
0.160	57
0.150	--
0.080	54

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	98
10.0	92
5.0	76
2.5	66
2.0	--
1.25	60
0.840	--
0.630	54
0.420	--
0.315	47
0.160	42
0.150	--
0.080	36

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	92
10.0	86
5.0	62
2.5	45
2.0	--
1.25	34
0.840	--
0.630	25
0.420	--
0.315	20
0.160	16
0.150	--
0.080	13

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	99
12.5	93
10.0	90
5.0	83
2.5	74
2.0	--
1.25	68
0.840	--
0.630	62
0.420	--
0.315	57
0.160	50
0.150	--
0.080	40

M.C. (%) : 64

M.C. (%) : 28

M.C. (%) : 12

M.C. (%) : 16

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 26
 % SAND: 19
 % FINES: 54

% GRAVEL: 24
 % SAND: 40
 % FINES: 36

% GRAVEL: 38
 % SAND: 49
 % FINES: 13

% GRAVEL: 17
 % SAND: 43
 % FINES: 40

CLASSIFICATION:
 GRAVELLY SILT
 WITH SAND (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 301-22
 CLIENT: SHAKWAK PROJECT
 PROJECT NAME: SEGMENT 16
 PROJECT LOCATION: A/H KM 1892-1895
 DRILL UNIT: 36-002
 HOLE LOCATION: SEE PLAN
 LOGGED BY: DA DATE COMPLETED: 94.07.11

FIELD NO: 70
 LAB NO: 916
 DEPTH: 0.8-1.2
 TYPE: AUGER

FIELD NO: 71
 LAB NO: 917
 DEPTH: 2.0-2.4
 TYPE: AUGER

FIELD NO: 72
 LAB NO: 918
 DEPTH: 3.0-3.4
 TYPE: AUGER

FIELD NO: 73
 LAB NO: 919
 DEPTH: 4.4-4.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	91
20.0	86
12.5	78
10.0	74
5.0	61
2.5	52
2.0	--
1.25	44
0.840	--
0.630	39
0.420	--
0.315	34
0.160	28
0.150	--
0.080	22

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	97
10.0	92
5.0	77
2.5	62
2.0	--
1.25	50
0.840	--
0.630	41
0.420	--
0.315	34
0.160	26
0.150	--
0.080	20

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	89
12.5	82
10.0	74
5.0	57
2.5	46
2.0	--
1.25	37
0.840	--
0.630	31
0.420	--
0.315	26
0.160	21
0.150	--
0.080	17

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	93
12.5	87
10.0	84
5.0	71
2.5	59
2.0	--
1.25	50
0.840	--
0.630	42
0.420	--
0.315	34
0.160	27
0.150	--
0.080	21

M.C. (%) : 17

M.C. (%) : 11

M.C. (%) : 11

M.C. (%) : 15

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 39
 % SAND: 39
 % FINES: 22

% GRAVEL: 23
 % SAND: 57
 % FINES: 20

% GRAVEL: 43
 % SAND: 41
 % FINES: 17

% GRAVEL: 29
 % SAND: 50
 % FINES: 21

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 302-23
 CLIENT: SHAKWAK PROJECT
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-002
 HOLE LOCATION: SEE PLAN
 LOGGED BY: DA DATE COMPLETED: 94.07.11

FIELD NO: 74
 LAB NO: 920
 DEPTH: 0.8-1.2
 TYPE: AUGER

FIELD NO: 75
 LAB NO: 921
 DEPTH: 2.0-2.4
 TYPE: AUGER

FIELD NO: 76
 LAB NO: 922
 DEPTH: 3.0-3.4
 TYPE: AUGER

FIELD NO: 77
 LAB NO: 923
 DEPTH: 4.6-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	99
5.0	97
2.5	94
2.0	--
1.25	93
0.840	--
0.630	90
0.420	--
0.315	81
0.160	62
0.150	--
0.080	43

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	84
12.5	78
10.0	73
5.0	64
2.5	56
2.0	--
1.25	50
0.840	--
0.630	44
0.420	--
0.315	36
0.160	27
0.150	--
0.080	19

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	96
12.5	88
10.0	84
5.0	72
2.5	60
2.0	--
1.25	48
0.840	--
0.630	37
0.420	--
0.315	28
0.160	22
0.150	--
0.080	17

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	88
12.5	80
10.0	76
5.0	65
2.5	54
2.0	--
1.25	43
0.840	--
0.630	30
0.420	--
0.315	20
0.160	15
0.150	--
0.080	12

M.C. (%): 25

M.C. (%): 13

M.C. (%): 11

M.C. (%): 9

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 3
 % SAND: 53
 % FINES: 43

% GRAVEL: 36
 % SAND: 45
 % FINES: 19

% GRAVEL: 28
 % SAND: 55
 % FINES: 17

% GRAVEL: 35
 % SAND: 53
 % FINES: 12

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 POORLY GRADED
 SAND WITH SILT &
 GRAVEL (SP-SM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 302-24
 CLIENT: SHAKWAK PROJECT
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-002
 HOLE LOCATION: SEE PLAN
 LOGGED BY: DA DATE COMPLETED: 94.07.11

FIELD NO: 78		FIELD NO: 79		FIELD NO: 80		FIELD NO: 81	
LAB NO: 924		LAB NO: 925		LAB NO: 926		LAB NO: 927	
DEPTH: 0.6-1.0		DEPTH: 1.8-2.2		DEPTH: 3.2-3.4		DEPTH: 4.8-5.0	
TYPE: AUGER		TYPE: AUGER		TYPE: AUGER		TYPE: AUGER	
ORGANIC		ORGANIC					
SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING
100.0	--	100.0	--	100.0	--	100.0	--
80.0	--	80.0	--	80.0	--	80.0	--
50.0	--	50.0	--	50.0	100	50.0	100
31.5	--	31.5	--	31.5	--	31.5	--
25.0	--	25.0	--	25.0	84	25.0	93
20.0	100	20.0	--	20.0	82	20.0	93
12.5	98	12.5	--	12.5	69	12.5	80
10.0	98	10.0	100	10.0	62	10.0	69
5.0	96	5.0	99	5.0	53	5.0	43
2.5	94	2.5	98	2.5	49	2.5	26
2.0	--	2.0	--	2.0	--	2.0	--
1.25	93	1.25	97	1.25	43	1.25	16
0.840	--	0.840	--	0.840	--	0.840	--
0.630	90	0.630	96	0.630	39	0.630	11
0.420	--	0.420	--	0.420	--	0.420	--
0.315	87	0.315	95	0.315	35	0.315	8
0.160	83	0.160	92	0.160	30	0.160	7
0.150	--	0.150	--	0.150	--	0.150	--
0.080	80	0.080	87	0.080	23	0.080	6
M.C. (%) :	126	M.C. (%) :	123	M.C. (%) :	16	M.C. (%) :	7
LIMITS		LIMITS		LIMITS		LIMITS	
LIQUID:	--	LIQUID:	--	LIQUID:	--	LIQUID:	--
PLASTIC:	--	PLASTIC:	--	PLASTIC:	--	PLASTIC:	--
P.I.:	N.P.	P.I.:	N.P.	P.I.:	N.P.	P.I.:	N.P.
% GRAVEL:	4	% GRAVEL:	1	% GRAVEL:	47	% GRAVEL:	57
% SAND:	16	% SAND:	12	% SAND:	30	% SAND:	38
% FINES:	80	% FINES:	87	% FINES:	23	% FINES:	6
CLASSIFICATION:	SILT WITH SAND (ML)	CLASSIFICATION:	SILT (ML)	CLASSIFICATION:	SILTY GRAVEL WITH SAND (GM)	CLASSIFICATION:	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 302-25
 CLIENT: SHAKWAK PROJECT
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-002
 HOLE LOCATION: SEE PLAN
 LOGGED BY: DA DATE COMPLETED: 94.07.11

FIELD NO: 82
 LAB NO: 928
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 83
 LAB NO: 929
 DEPTH: 1.8-2.0
 TYPE: AUGER

FIELD NO: 84
 LAB NO: 930
 DEPTH: 3.0-3.2
 TYPE: AUGER
 ORGANIC

FIELD NO: 85
 LAB NO: 931
 DEPTH: 4.6-4.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	96
10.0	94
5.0	89
2.5	86
2.0	--
1.25	83
0.840	--
0.630	79
0.420	--
0.315	73
0.160	59
0.150	--
0.080	47

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	94
12.5	82
10.0	77
5.0	64
2.5	57
2.0	--
1.25	52
0.840	--
0.630	48
0.420	--
0.315	44
0.160	39
0.150	--
0.080	34

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	100
12.5	97
10.0	97
5.0	97
2.5	97
2.0	--
1.25	96
0.840	--
0.630	96
0.420	--
0.315	94
0.160	93
0.150	--
0.080	89

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	88
12.5	76
10.0	72
5.0	62
2.5	56
2.0	--
1.25	51
0.840	--
0.630	47
0.420	--
0.315	42
0.160	34
0.150	--
0.080	27

M.C. (%) : 20

M.C. (%) : 15

M.C. (%) : 99

M.C. (%) : 11

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 11
 % SAND: 43
 % FINES: 47

% GRAVEL: 36
 % SAND: 31
 % FINES: 34

% GRAVEL: 3
 % SAND: 8
 % FINES: 89

% GRAVEL: 38
 % SAND: 35
 % FINES: 27

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILT (ML)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 302-25
 CLIENT: SHAKWAK PROJECT
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-002
 HOLE LOCATION: SEE PLAN
 LOGGED BY: DA DATE COMPLETED: 94.07.11

FIELD NO: 86
 LAB NO: 932
 DEPTH: 5.8-6.0
 TYPE: AUGER

FIELD NO: 87
 LAB NO: 933
 DEPTH: 7.8-8.2
 TYPE: AUGER

FIELD NO: 88
 LAB NO: 934
 DEPTH: 9.8-10.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	89
10.0	88
5.0	80
2.5	73
2.0	--
1.25	67
0.840	--
0.630	62
0.420	--
0.315	55
0.160	44
0.150	--
0.080	35

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	90
10.0	88
5.0	79
2.5	69
2.0	--
1.25	61
0.840	--
0.630	56
0.420	--
0.315	50
0.160	43
0.150	--
0.080	35

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	93
10.0	89
5.0	76
2.5	67
2.0	--
1.25	59
0.840	--
0.630	53
0.420	--
0.315	47
0.160	41
0.150	--
0.080	33

M.C. (%): 16

M.C. (%): 13

M.C. (%): 12

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 20
 % SAND: 45
 % FINES: 35

% GRAVEL: 21
 % SAND: 44
 % FINES: 35

% GRAVEL: 24
 % SAND: 43
 % FINES: 33

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 302-26
 CLIENT: SHAKWAK PROJECT
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-002
 HOLE LOCATION: SEE PLAN
 LOGGED BY: DA DATE COMPLETED: 94.07.11

FIELD NO: 89
 LAB NO: 935
 DEPTH: 0.8-1.2
 TYPE: AUGER

FIELD NO: 90
 LAB NO: 936
 DEPTH: 2.0-2.4
 TYPE: AUGER
 ORGANIC

FIELD NO: 91
 LAB NO: 937
 DEPTH: 2.9-3.2
 TYPE: AUGER
 ORGANIC

FIELD NO: 92
 LAB NO: 938
 DEPTH: 4.6-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	85
10.0	80
5.0	73
2.5	67
2.0	--
1.25	63
0.840	--
0.630	60
0.420	--
0.315	55
0.160	46
0.150	--
0.080	36

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	89
20.0	89
12.5	82
10.0	80
5.0	73
2.5	68
2.0	--
1.25	64
0.840	--
0.630	61
0.420	--
0.315	57
0.160	51
0.150	--
0.080	45

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	97
10.0	95
5.0	91
2.5	87
2.0	--
1.25	84
0.840	--
0.630	81
0.420	--
0.315	76
0.160	68
0.150	--
0.080	60

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	99
5.0	95
2.5	90
2.0	--
1.25	83
0.840	--
0.630	76
0.420	--
0.315	63
0.160	46
0.150	--
0.080	31

M.C. (%) : 21

M.C. (%) : 38

M.C. (%) : 52

M.C. (%) : 19

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 27
 % SAND: 37
 % FINES: 36

% GRAVEL: 27
 % SAND: 28
 % FINES: 45

% GRAVEL: 9
 % SAND: 30
 % FINES: 60

% GRAVEL: 5
 % SAND: 64
 % FINES: 31

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 302-27
 CLIENT: SHAKWAK PROJECT
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-002
 HOLE LOCATION: SEE PLAN
 LOGGED BY: DA DATE COMPLETED: 94.07.11

FIELD NO: 93
 LAB NO: 939
 DEPTH: 2.0-2.4
 TYPE: AUGER

FIELD NO: 94
 LAB NO: 940
 DEPTH: 3.0-3.4
 TYPE: AUGER

FIELD NO: 95
 LAB NO: 941
 DEPTH: 4.4-4.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	90
12.5	74
10.0	63
5.0	39
2.5	24
2.0	--
1.25	18
0.840	--
0.630	14
0.420	--
0.315	11
0.160	8
0.150	--
0.080	6

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	99
12.5	97
10.0	96
5.0	92
2.5	85
2.0	--
1.25	81
0.840	--
0.630	68
0.420	--
0.315	35
0.160	18
0.150	--
0.080	13

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	93
10.0	84
5.0	67
2.5	50
2.0	--
1.25	37
0.840	--
0.630	23
0.420	--
0.315	15
0.160	12
0.150	--
0.080	9

M.C. (%) : 7

M.C. (%) : 16

M.C. (%) : 9

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 61
 % SAND: 33
 % FINES: 6

% GRAVEL: 8
 % SAND: 79
 % FINES: 13

% GRAVEL: 33
 % SAND: 58
 % FINES: 9

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 WELL-GRADED SAND
 WITH SILT &
 GRAVEL (SW-SM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 302-28
 CLIENT: SHAKWAK PROJECT
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-002
 HOLE LOCATION: SEE PLAN
 LOGGED BY: DA DATE COMPLETED: 94.07.11

FIELD NO: 96
 LAB NO: 942
 DEPTH: 0.8-1.0
 TYPE: AUGER

FIELD NO: 97
 LAB NO: 943
 DEPTH: 1.8-2.2
 TYPE: AUGER

FIELD NO: 98
 LAB NO: 944
 DEPTH: 3.0-3.2
 TYPE: AUGER

FIELD NO: 99
 LAB NO: 945
 DEPTH: 4.6-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	95
10.0	94
5.0	85
2.5	79
2.0	--
1.25	74
0.840	--
0.630	68
0.420	--
0.315	60
0.160	54
0.150	--
0.080	49

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	90
20.0	90
12.5	82
10.0	73
5.0	57
2.5	44
2.0	--
1.25	38
0.840	--
0.630	36
0.420	--
0.315	33
0.160	29
0.150	--
0.080	19

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	87
10.0	82
5.0	55
2.5	29
2.0	--
1.25	18
0.840	--
0.630	13
0.420	--
0.315	10
0.160	9
0.150	--
0.080	7

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	83
20.0	78
12.5	64
10.0	57
5.0	36
2.5	20
2.0	--
1.25	12
0.840	--
0.630	9
0.420	--
0.315	7
0.160	6
0.150	--
0.080	5

M.C. (%): 25

M.C. (%): 13

M.C. (%): 7

M.C. (%): 5

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 15
 % SAND: 36
 % FINES: 49

% GRAVEL: 43
 % SAND: 38
 % FINES: 19

% GRAVEL: 45
 % SAND: 48
 % FINES: 7

% GRAVEL: 64
 % SAND: 31
 % FINES: 5

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 POORLY GRADED
 SAND WITH SILT &
 GRAVEL (SP-SM)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 302-29
 CLIENT: SHAKWAK PROJECT
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-002
 HOLE LOCATION: SEE PLAN
 LOGGED BY: DA DATE COMPLETED: 94.07.12

FIELD NO: 100
 LAB NO: 946
 DEPTH: 0.8-1.2
 TYPE: AUGER

FIELD NO: 101
 LAB NO: 947
 DEPTH: 1.8-2.2
 TYPE: AUGER

FIELD NO: 102
 LAB NO: 948
 DEPTH: 2.8-3.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	81
20.0	74
12.5	57
10.0	43
5.0	22
2.5	12
2.0	--
1.25	7
0.840	--
0.630	5
0.420	--
0.315	4
0.160	3
0.150	--
0.080	2

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	86
12.5	62
10.0	52
5.0	24
2.5	12
2.0	--
1.25	7
0.840	--
0.630	5
0.420	--
0.315	4
0.160	3
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	80
20.0	64
12.5	45
10.0	33
5.0	15
2.5	6
2.0	--
1.25	3
0.840	--
0.630	2
0.420	--
0.315	2
0.160	1
0.150	--
0.080	1

M.C. (%) : 1

M.C. (%) : 2

M.C. (%) : 2

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 78
 % SAND: 20
 % FINES: 2

% GRAVEL: 76
 % SAND: 21
 % FINES: 3

% GRAVEL: 85
 % SAND: 14
 % FINES: 1

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL (GW)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 302-30
 CLIENT: SHAKWAK PROJECT
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-002
 HOLE LOCATION: SEE PLAN
 LOGGED BY: DA DATE COMPLETED: 94.07.12

FIELD NO: 103
 LAB NO: 949
 DEPTH: 1.8-2.2
 TYPE: AUGER

FIELD NO: 104
 LAB NO: 950
 DEPTH: 3.0-3.4
 TYPE: AUGER

FIELD NO: 105
 LAB NO: 951
 DEPTH: 4.6-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	94
10.0	82
5.0	48
2.5	29
2.0	--
1.25	20
0.840	--
0.630	15
0.420	--
0.315	12
0.160	10
0.150	--
0.080	8

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	89
12.5	68
10.0	56
5.0	26
2.5	13
2.0	--
1.25	9
0.840	--
0.630	7
0.420	--
0.315	5
0.160	4
0.150	--
0.080	4

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	87
20.0	82
12.5	69
10.0	57
5.0	35
2.5	22
2.0	--
1.25	15
0.840	--
0.630	11
0.420	--
0.315	9
0.160	7
0.150	--
0.080	6

M.C. (%): 8

M.C. (%): 7

M.C. (%): 5

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 52
 % SAND: 40
 % FINES: 8

% GRAVEL: 74
 % SAND: 22
 % FINES: 4

% GRAVEL: 65
 % SAND: 30
 % FINES: 6

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 302-31
 CLIENT: SHAKWAK PROJECT
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-002
 HOLE LOCATION: SEE PLAN
 LOGGED BY: DA DATE COMPLETED: 94.07.12

FIELD NO: 106
 LAB NO: 952
 DEPTH: 1.8-2.2
 TYPE: AUGER

FIELD NO: 107
 LAB NO: 953
 DEPTH: 3.0-3.4
 TYPE: AUGER

FIELD NO: 108
 LAB NO: 954
 DEPTH: 4.6-5.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	80
20.0	67
12.5	42
10.0	34
5.0	16
2.5	9
2.0	--
1.25	6
0.840	--
0.630	4
0.420	--
0.315	3
0.160	3
0.150	--
0.080	2

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	82
20.0	65
12.5	42
10.0	31
5.0	11
2.5	7
2.0	--
1.25	5
0.840	--
0.630	4
0.420	--
0.315	3
0.160	3
0.150	--
0.080	2

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	60
20.0	54
12.5	44
10.0	38
5.0	22
2.5	14
2.0	--
1.25	9
0.840	--
0.630	7
0.420	--
0.315	5
0.160	4
0.150	--
0.080	3

M.C. (%) : 2

M.C. (%) : 2

M.C. (%) : 3

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 84
 % SAND: 14
 % FINES: 2

% GRAVEL: 89
 % SAND: 9
 % FINES: 2

% GRAVEL: 78
 % SAND: 19
 % FINES: 3

CLASSIFICATION:
 WELL-GRADED
 GRAVEL (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 302-35
 CLIENT: SHAKWAK PROJECT
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-002
 HOLE LOCATION: SEE PLAN
 LOGGED BY: DA DATE COMPLETED: 94.07.12

FIELD NO: 109
 LAB NO: 955
 DEPTH: 4.4-4.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	78
20.0	75
12.5	67
10.0	62
5.0	50
2.5	42
2.0	--
1.25	36
0.840	--
0.630	31
0.420	--
0.315	26
0.160	22
0.150	--
0.080	19

M.C. (%) : 9

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 50
 % SAND: 32
 % FINES: 19

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 302-37
 CLIENT: SHAKWAK PROJECT
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-002
 HOLE LOCATION: 1883+700
 LOGGED BY: DA DATE COMPLETED: 94.07.13

FIELD NO: 110
 LAB NO: 956
 DEPTH: 0.8-1.2
 TYPE: AUGER
 ORGANIC

FIELD NO: 111
 LAB NO: 957
 DEPTH: 2.0-2.4
 TYPE: AUGER
 ORGANIC

FIELD NO: 112
 LAB NO: 958
 DEPTH: 3.0-3.4
 TYPE: AUGER
 ORGANIC

FIELD NO: 113
 LAB NO: 959
 DEPTH: 5.0-5.4
 TYPE: AUGER
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	99
0.420	--
0.315	98
0.160	94
0.150	--
0.080	88

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	92
10.0	91
5.0	82
2.5	73
2.0	--
1.25	66
0.840	--
0.630	60
0.420	--
0.315	53
0.160	43
0.150	--
0.080	30

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	92
2.0	--
1.25	88
0.840	--
0.630	82
0.420	--
0.315	74
0.160	66
0.150	--
0.080	59

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	99
0.420	--
0.315	97
0.160	90
0.150	--
0.080	81

M.C. (%) : 87

M.C. (%) : 31

M.C. (%) : 193

M.C. (%) : 134

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 12
 % FINES: 88

% GRAVEL: 18
 % SAND: 52
 % FINES: 30

% GRAVEL: 0
 % SAND: 41
 % FINES: 59

% GRAVEL: 0
 % SAND: 19
 % FINES: 81

CLASSIFICATION:
 SILT (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 302-37
 CLIENT: SHAKWAK PROJECT
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-002
 HOLE LOCATION: 1883+700
 LOGGED BY: DA DATE COMPLETED: 94.07.13

FIELD NO: 114
 LAB NO: 960
 DEPTH: 6.6-7.0
 TYPE: AUGER
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	98
2.0	--
1.25	96
0.840	--
0.630	93
0.420	--
0.315	89
0.160	82
0.150	--
0.080	73

M.C. (%) : 145

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 27
 % FINES: 73

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 302-38
 CLIENT: SHAKWAK PROJECT
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-002
 HOLE LOCATION: 1883+550
 LOGGED BY: DA DATE COMPLETED: 94.07.13

FIELD NO: 115
 LAB NO: 961
 DEPTH: 0.8-1.2
 TYPE: AUGER
 ORGANIC

FIELD NO: 116
 LAB NO: 962
 DEPTH: 2.0-2.4
 TYPE: AUGER
 ORGANIC

FIELD NO: 117
 LAB NO: 963
 DEPTH: 3.0-3.4
 TYPE: AUGER
 ORGANIC

FIELD NO: 118
 LAB NO: 964
 DEPTH: 4.4-4.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	97
0.840	--
0.630	94
0.420	--
0.315	89
0.160	81
0.150	--
0.080	67

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	95
0.420	--
0.315	85
0.160	69
0.150	--
0.080	53

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	98
0.840	--
0.630	96
0.420	--
0.315	90
0.160	79
0.150	--
0.080	65

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	93
12.5	85
10.0	78
5.0	61
2.5	49
2.0	--
1.25	40
0.840	--
0.630	32
0.420	--
0.315	24
0.160	18
0.150	--
0.080	13

M.C. (%) : 148

M.C. (%) : 59

M.C. (%) : 148

M.C. (%) : 15

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 0
 % SAND: 33
 % FINES: 67

% GRAVEL: 0
 % SAND: 47
 % FINES: 53

% GRAVEL: 0
 % SAND: 35
 % FINES: 65

% GRAVEL: 39
 % SAND: 48
 % FINES: 13

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 302-39
 CLIENT: SHAKWAK PROJECT
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-002
 HOLE LOCATION: SEE PLAN
 LOGGED BY: DA DATE COMPLETED: 94.07.19

FIELD NO: 119
 LAB NO: 965
 DEPTH: 1.6-2.0
 TYPE: AUGER

FIELD NO: 120
 LAB NO: 966
 DEPTH: 2.9-3.3
 TYPE: AUGER

FIELD NO: 121
 LAB NO: 967
 DEPTH: 5.6-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	81
12.5	63
10.0	56
5.0	40
2.5	30
2.0	--
1.25	25
0.840	--
0.630	20
0.420	--
0.315	16
0.160	12
0.150	--
0.080	9

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	66
31.5	--
25.0	59
20.0	52
12.5	43
10.0	40
5.0	33
2.5	27
2.0	--
1.25	22
0.840	--
0.630	19
0.420	--
0.315	15
0.160	11
0.150	--
0.080	8

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	95
12.5	89
10.0	85
5.0	71
2.5	65
2.0	--
1.25	59
0.840	--
0.630	50
0.420	--
0.315	39
0.160	36
0.150	--
0.080	29

M.C. (%) : 7

M.C. (%) : 6

M.C. (%) : 16

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 60
 % SAND: 31
 % FINES: 9

% GRAVEL: 67
 % SAND: 24
 % FINES: 8

% GRAVEL: 29
 % SAND: 42
 % FINES: 29

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 317-14
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: BACKHOE: CAT 225
 HOLE LOCATION: 1891+540 O/S 10M RT
 LOGGED BY: DA DATE COMPLETED: 94.08.18

FIELD NO: 16
 LAB NO: 2318
 DEPTH: 1.2-1.4
 TYPE: BULK

FIELD NO: 17
 LAB NO: 2319
 DEPTH: 3.0-3.2
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	82
12.5	73
10.0	62
5.0	37
2.5	20
2.0	--
1.25	12
0.840	--
0.630	7
0.420	--
0.315	4
0.160	2
0.150	--
0.080	2

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	98
5.0	96
2.5	94
2.0	--
1.25	93
0.840	--
0.630	93
0.420	--
0.315	92
0.160	67
0.150	--
0.080	21

M.C. (%) : --

M.C. (%) : --

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 63
 % SAND: 35
 % FINES: 2

% GRAVEL: 4
 % SAND: 75
 % FINES: 21

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 317-16
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: BACKHOE: CAT 225
 HOLE LOCATION: 1891+500 O/S 30M LT
 LOGGED BY: DA DATE COMPLETED: 94.08.18

FIELD NO: 21
 LAB NO: 2323
 DEPTH: 1.8-2.0
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	74
31.5	--
25.0	56
20.0	51
12.5	45
10.0	41
5.0	25
2.5	12
2.0	--
1.25	5
0.840	--
0.630	2
0.420	--
0.315	1
0.160	1
0.150	--
0.080	1

M.C. (%): --

LIMITS

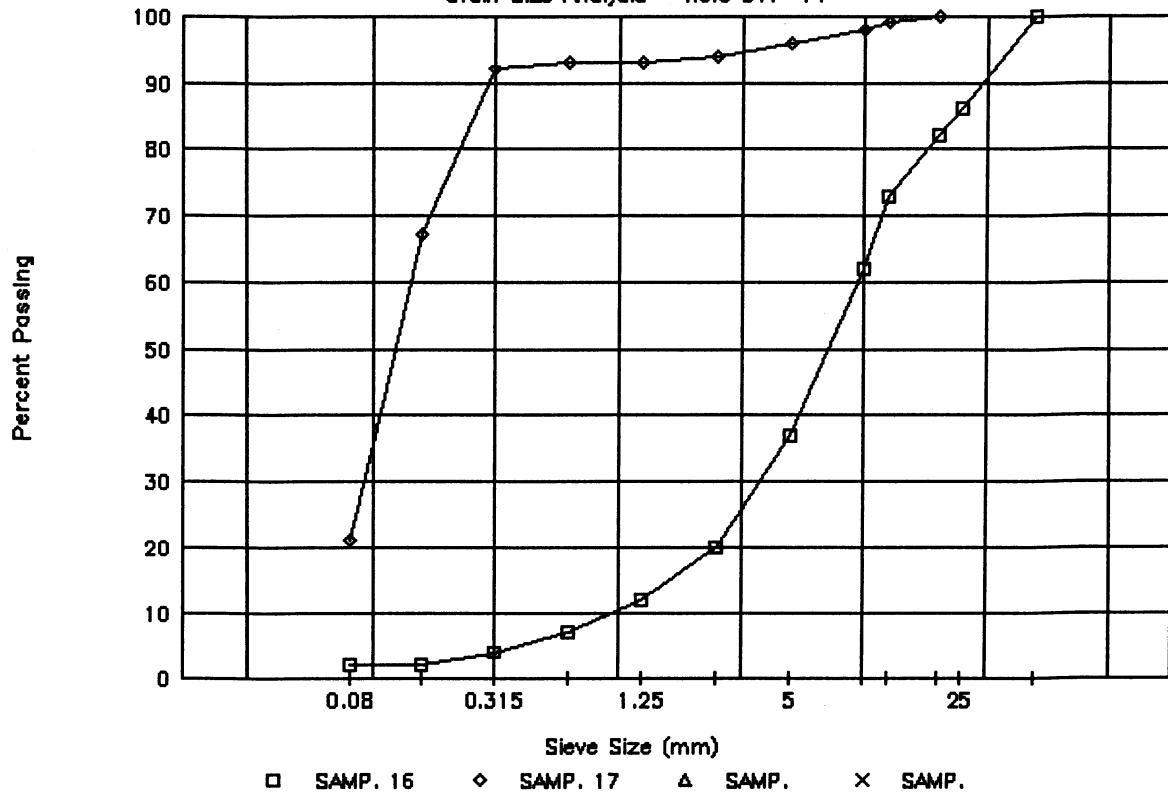
LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 75
 % SAND: 25
 % FINES: 1

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SAND
 (GP)

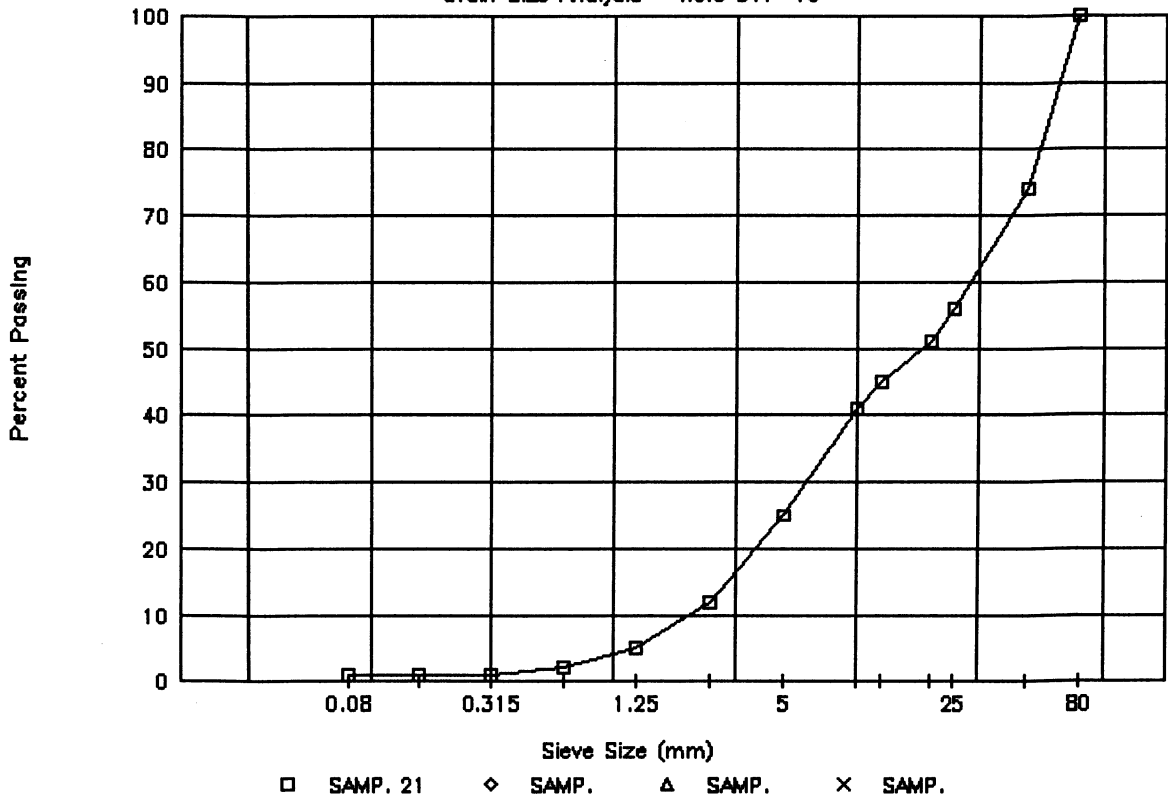
Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 317-14



Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 317-16



PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 317-19
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: BACKHOE: CAT 225
 HOLE LOCATION: 1891+325 O/S 25M LT
 LOGGED BY: DA DATE COMPLETED: 94.08.18

FIELD NO: 24
 LAB NO: 2326
 DEPTH: 2.8-3.2
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	59
31.5	--
25.0	51
20.0	48
12.5	41
10.0	36
5.0	25
2.5	15
2.0	--
1.25	10
0.840	--
0.630	8
0.420	--
0.315	7
0.160	6
0.150	--
0.080	6

M.C. (%): --

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 75
 % SAND: 19
 % FINES: 6

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 317-45
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: BACKHOE: CAT 225
 HOLE LOCATION: 1891+250 O/S 25M LT
 LOGGED BY: DA DATE COMPLETED: 94.08.24

FIELD NO: 36
 LAB NO: 2339
 DEPTH: 2.4-2.8
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	100
50.0	88
31.5	--
25.0	70
20.0	58
12.5	48
10.0	41
5.0	26
2.5	13
2.0	--
1.25	6
0.840	--
0.630	4
0.420	--
0.315	2
0.160	2
0.150	--
0.080	2

M.C. (%): --

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 74
 % SAND: 25
 % FINES: 2

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SAND
 (GP)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 317-47
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: BACKHOE: CAT 225
 HOLE LOCATION: 1891+275 O/S 125M LT
 LOGGED BY: DA DATE COMPLETED: 94.08.25

FIELD NO: 37
 LAB NO: 2340
 DEPTH: 2.0-2.4
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	89
20.0	78
12.5	66
10.0	58
5.0	40
2.5	31
2.0	--
1.25	25
0.840	--
0.630	18
0.420	--
0.315	13
0.160	7
0.150	--
0.080	3

M.C. (%): --

LIMITS

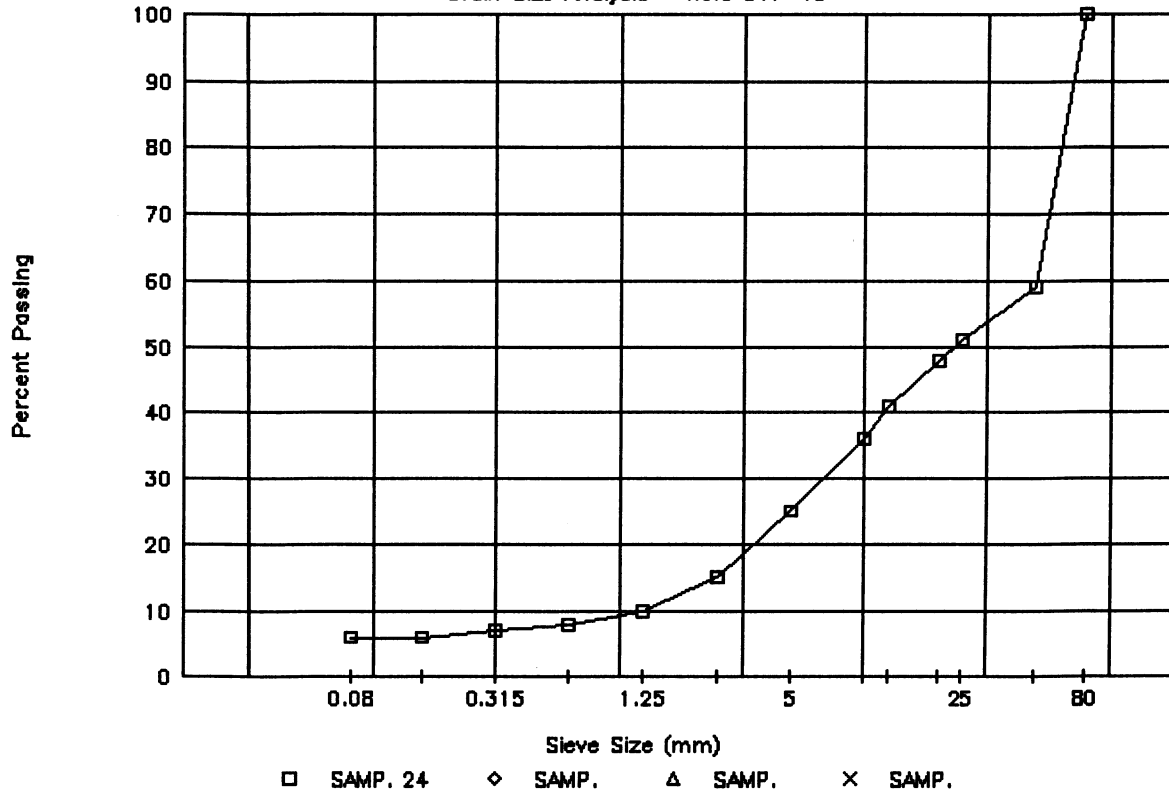
LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 60
 % SAND: 37
 % FINES: 3

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

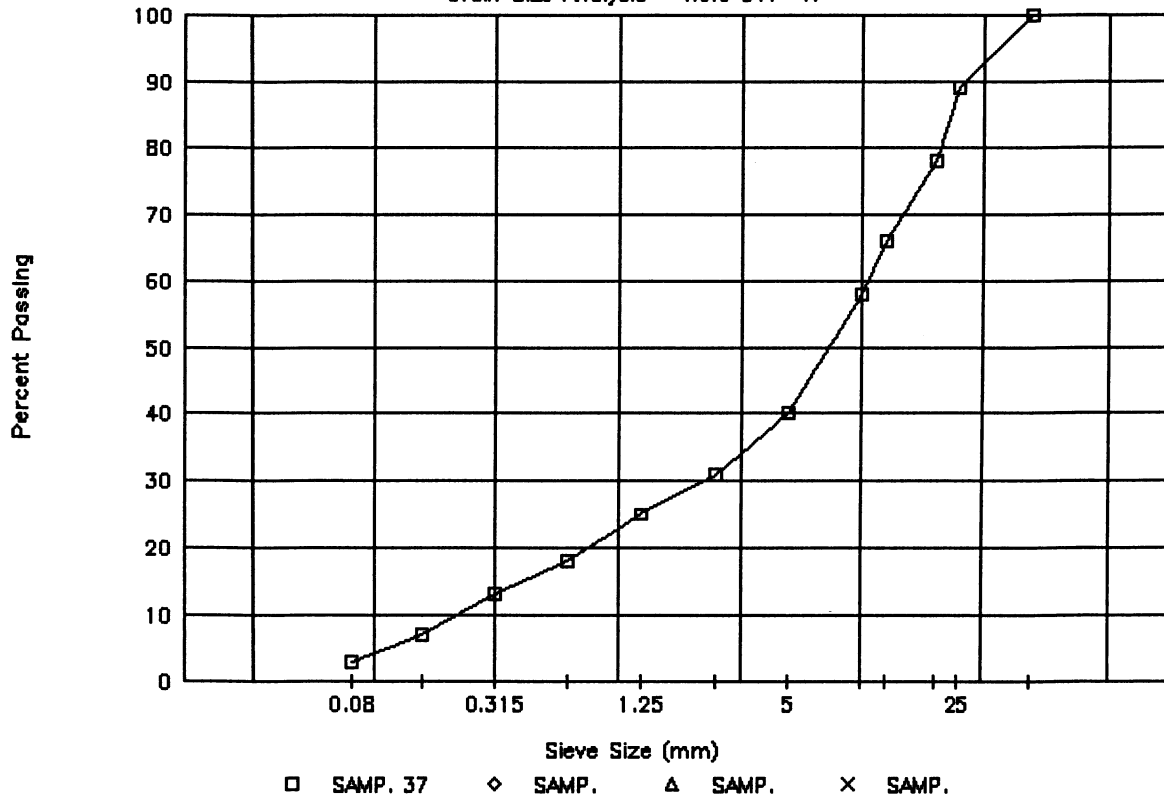
Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 317-19



Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 317-47



PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 317-48
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: BACKHOE: CAT 225
 HOLE LOCATION: 1891+150 O/S 25M LT
 LOGGED BY: DA DATE COMPLETED: 94.08.25

FIELD NO: 38
 LAB NO: 2341
 DEPTH: 1.2-1.6
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	68
20.0	64
12.5	53
10.0	45
5.0	26
2.5	13
2.0	--
1.25	7
0.840	--
0.630	5
0.420	--
0.315	4
0.160	3
0.150	--
0.080	3

M.C. (%): --

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 74
 % SAND: 23
 % FINES: 3

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 317-49
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: BACKHOE: CAT 225
 HOLE LOCATION: 1891+075 O/S 25M LT
 LOGGED BY: DA DATE COMPLETED: 94.08.25

FIELD NO: 39
 LAB NO: 2342
 DEPTH: 1.2-1.6
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	83
20.0	79
12.5	58
10.0	47
5.0	23
2.5	13
2.0	--
1.25	8
0.840	--
0.630	5
0.420	--
0.315	4
0.160	3
0.150	--
0.080	2

M.C. (%): --

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 77
 % SAND: 21
 % FINES: 2

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 317-50
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: BACKHOE: CAT 225
 HOLE LOCATION: 1891+175 O/S 20M RT
 LOGGED BY: DA DATE COMPLETED: 94.08.25

FIELD NO: 40
 LAB NO: 2343
 DEPTH: 1.0-1.4
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	100
80.0	83
50.0	75
31.5	--
25.0	52
20.0	44
12.5	33
10.0	28
5.0	17
2.5	10
2.0	--
1.25	6
0.840	--
0.630	5
0.420	--
0.315	4
0.160	3
0.150	--
0.080	3

M.C. (%): --

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 83
 % SAND: 15
 % FINES: 3

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 317-51
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: BACKHOE: CAT 225
 HOLE LOCATION: 1890+975 O/S 20M RT
 LOGGED BY: DA DATE COMPLETED: 94.08.25

FIELD NO: 41
 LAB NO: 2344
 DEPTH: 0.8-1.2
 TYPE: BULK

FIELD NO: 42
 LAB NO: 2345
 DEPTH: 2.6-3.0
 TYPE: BULK
 NOT TESTED

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	88
31.5	--
25.0	61
20.0	51
12.5	43
10.0	38
5.0	25
2.5	14
2.0	--
1.25	8
0.840	--
0.630	6
0.420	--
0.315	4
0.160	3
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%): --

M.C. (%): --

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: --

% GRAVEL: 75
 % SAND: 22
 % FINES: 3

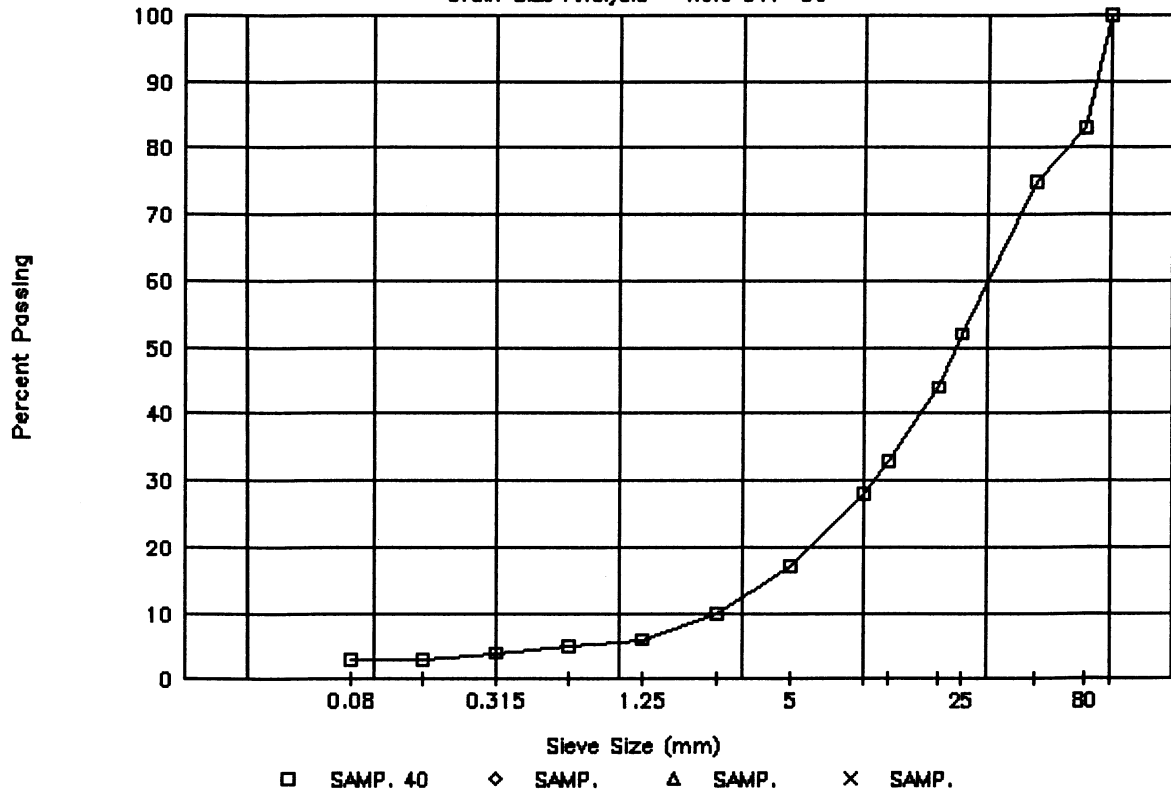
% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:

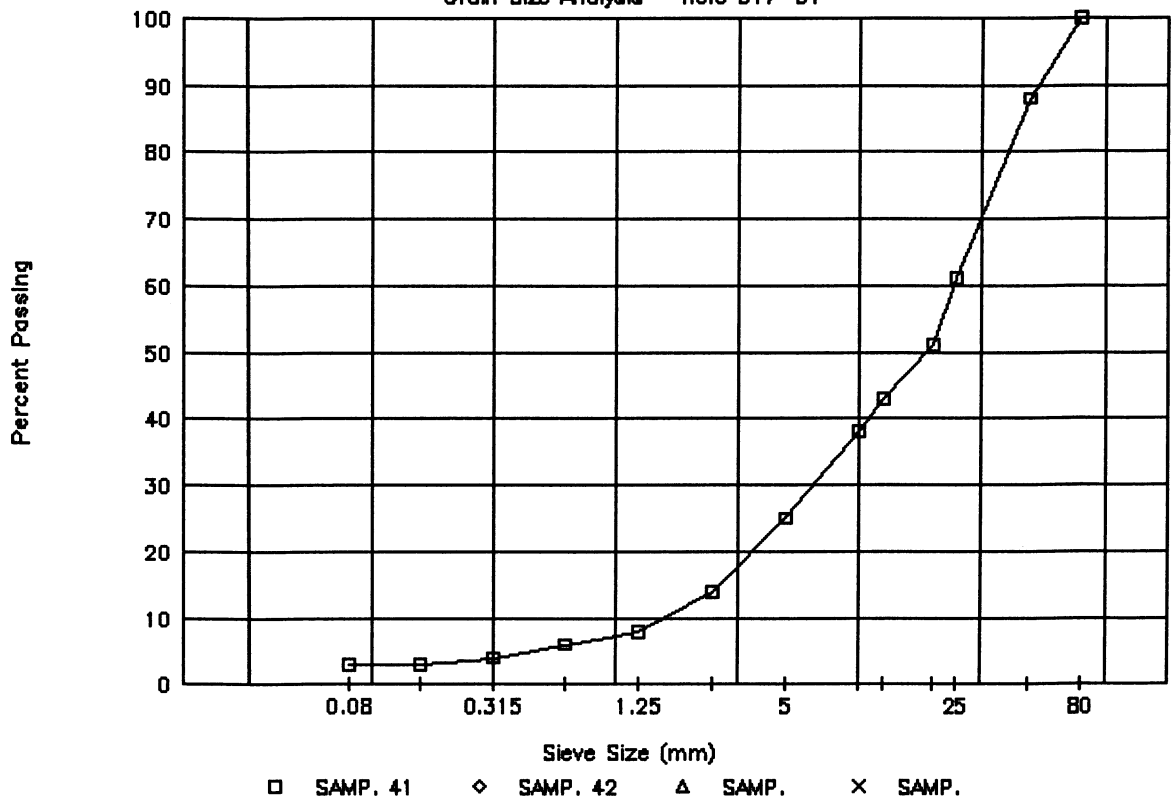
Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 317-50



Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 317-51



PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 318-52
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: BACKHOE: CAT 225
 HOLE LOCATION: 1890+400 O/S 25M RT
 LOGGED BY: DA DATE COMPLETED: 94.08.25

FIELD NO: 43
 LAB NO: 2346
 DEPTH: 0.8-1.2
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	91
20.0	77
12.5	55
10.0	43
5.0	22
2.5	10
2.0	--
1.25	5
0.840	--
0.630	3
0.420	--
0.315	2
0.160	2
0.150	--
0.080	1

M.C. (%): --

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 78
 % SAND: 21
 % FINES: 1

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 318-53
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: BACKHOE: CAT 225
 HOLE LOCATION: 1890+325 O/S 20M RT
 LOGGED BY: DA DATE COMPLETED: 94.08.25

FIELD NO: 44
 LAB NO: 2347
 DEPTH: 1.0-1.4
 TYPE: BULK

FIELD NO: 45
 LAB NO: 2348
 DEPTH: 3.0-3.4
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	83
31.5	--
25.0	81
20.0	72
12.5	61
10.0	53
5.0	30
2.5	15
2.0	--
1.25	8
0.840	--
0.630	5
0.420	--
0.315	4
0.160	4
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	68
12.5	48
10.0	39
5.0	22
2.5	11
2.0	--
1.25	6
0.840	--
0.630	4
0.420	--
0.315	3
0.160	3
0.150	--
0.080	2

M.C. (%): --

M.C. (%): --

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 70
 % SAND: 27
 % FINES: 3

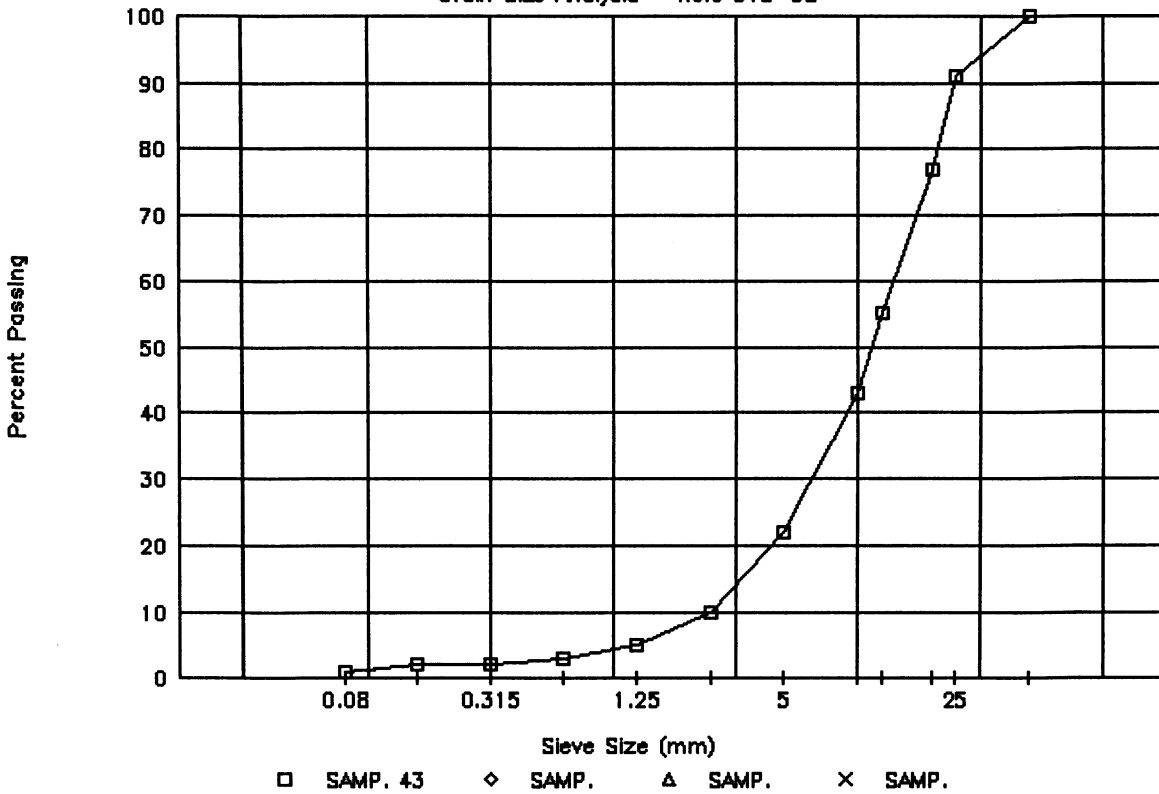
% GRAVEL: 78
 % SAND: 20
 % FINES: 2

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

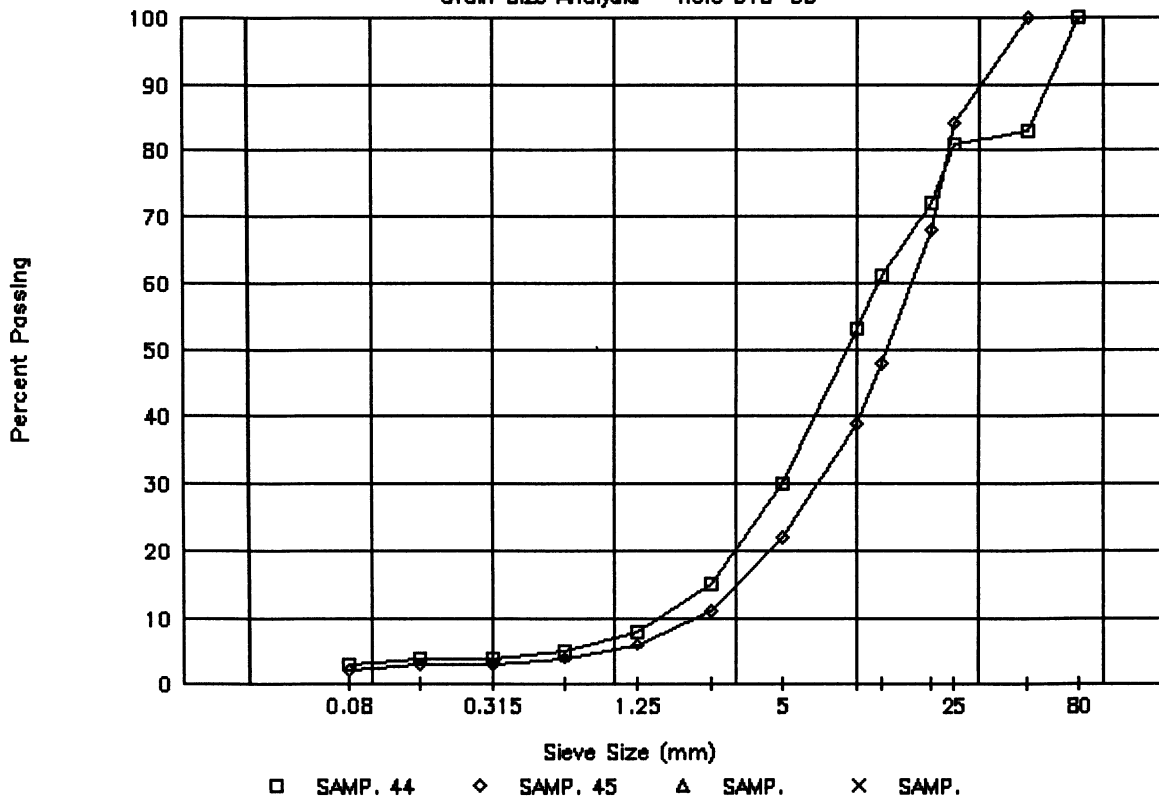
Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 31B-52



Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 31B-53



PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 318-60
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: BACKHOE: CAT 225
 HOLE LOCATION: 1890+175 O/S 40M LT
 LOGGED BY: DA DATE COMPLETED: 94.08.25

FIELD NO: 49
 LAB NO: 2352
 DEPTH: 0.6-0.8
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	98
20.0	92
12.5	77
10.0	70
5.0	48
2.5	30
2.0	--
1.25	19
0.840	--
0.630	16
0.420	--
0.315	14
0.160	14
0.150	--
0.080	13

M.C. (%) : --

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 52
 % SAND: 35
 % FINES: 13

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 318-63
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: BACKHOE: CAT 225
 HOLE LOCATION: 1890+400 O/S 20M LT
 LOGGED BY: DA DATE COMPLETED: 94.08.25

FIELD NO: 50
 LAB NO: 2353
 DEPTH: 1.0-1.4
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	76
20.0	63
12.5	45
10.0	37
5.0	20
2.5	12
2.0	--
1.25	9
0.840	--
0.630	8
0.420	--
0.315	7
0.160	7
0.150	--
0.080	6

M.C. (%): --

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 80
 % SAND: 14
 % FINES: 6

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 (GW-GM)

PROJECT NUMBER: 092-202101-0312-194 **HOLE NUMBER:** 318-64
CLIENT: ENGINEERING-CAPITAL
PROJECT NAME: SHAKWAK PROJECT
PROJECT LOCATION: SEGMENT 16
DRILL UNIT: BACKHOE: CAT 225
HOLE LOCATION: 1890+475 O/S 30M LT
LOGGED BY: DA **DATE COMPLETED:** 94.08.25

FIELD NO: 51
LAB NO: 2354
DEPTH: 1.0-1.2
TYPE: BULK
 NOT TESTED

FIELD NO: 52
LAB NO: 2355
DEPTH: 2.0-2.4
TYPE: BULK

FIELD NO: 53
LAB NO: 2356
DEPTH: 3.2-3.6
TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	80
31.5	--
25.0	63
20.0	58
12.5	42
10.0	33
5.0	17
2.5	9
2.0	--
1.25	5
0.840	--
0.630	4
0.420	--
0.315	3
0.160	2
0.150	--
0.080	2

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	70
12.5	56
10.0	48
5.0	27
2.5	15
2.0	--
1.25	10
0.840	--
0.630	7
0.420	--
0.315	5
0.160	5
0.150	--
0.080	4

M.C. (%) : --

M.C. (%) : --

M.C. (%) : --

LIMITS
LIQUID: --
PLASTIC: --
P.I.: --

LIMITS
LIQUID: --
PLASTIC: --
P.I.: N.P.

LIMITS
LIQUID: --
PLASTIC: --
P.I.: N.P.

% GRAVEL: --
% SAND: --
% FINES: --

% GRAVEL: 83
% SAND: 15
% FINES: 2

% GRAVEL: 73
% SAND: 23
% FINES: 4

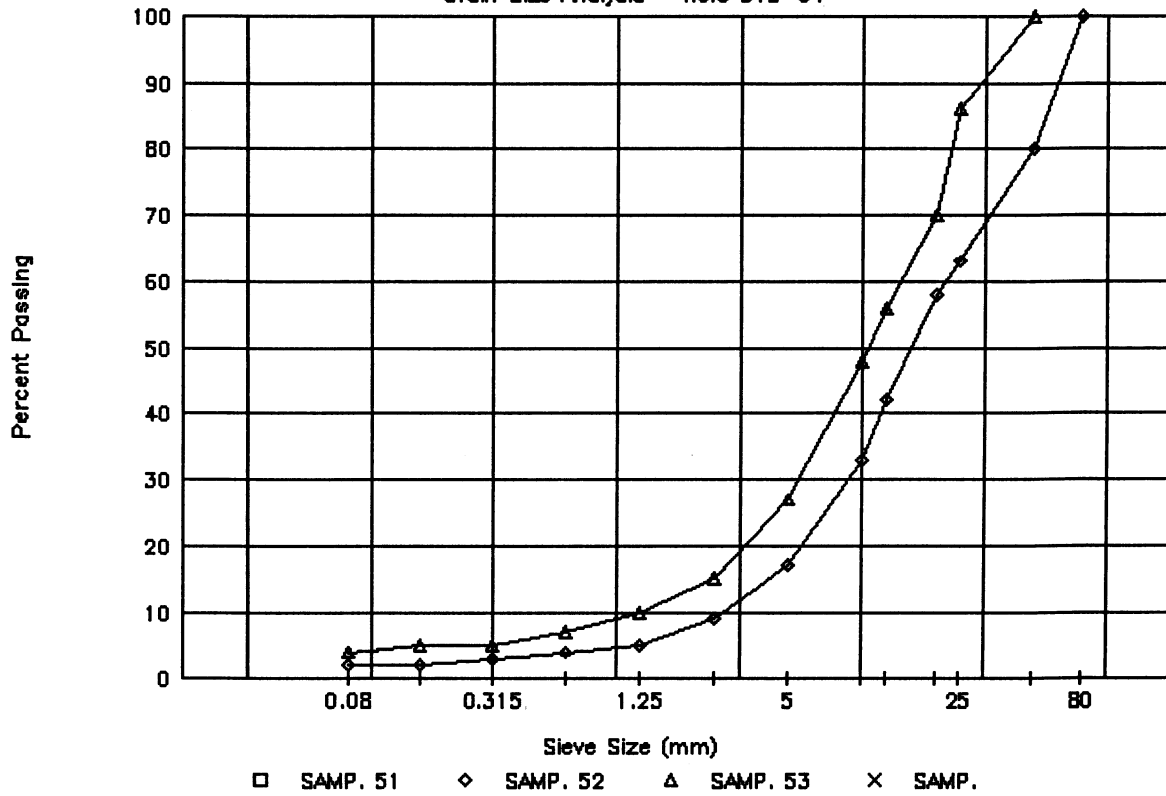
CLASSIFICATION:

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 31B-64



PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 318-67
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: BACKHOE: CAT 225
 HOLE LOCATION: 1889+075 O/S 25M RT
 LOGGED BY: DA DATE COMPLETED: 94.08.25

FIELD NO: 57
 LAB NO: 2360
 DEPTH: 1.4-1.6
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	93
12.5	82
10.0	74
5.0	49
2.5	21
2.0	--
1.25	8
0.840	--
0.630	5
0.420	--
0.315	3
0.160	3
0.150	--
0.080	2

M.C. (%): --

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 51
 % SAND: 47
 % FINES: 2

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 318-69
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: BACKHOE: CAT 225
 HOLE LOCATION: 1888+925 O/S 18M RT
 LOGGED BY: DA DATE COMPLETED: 94.08.25

FIELD NO: 58
 LAB NO: 2361
 DEPTH: 1.0-1.2
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	91
12.5	72
10.0	62
5.0	32
2.5	15
2.0	--
1.25	8
0.840	--
0.630	6
0.420	--
0.315	4
0.160	3
0.150	--
0.080	2

M.C. (%) : --

LIMITS

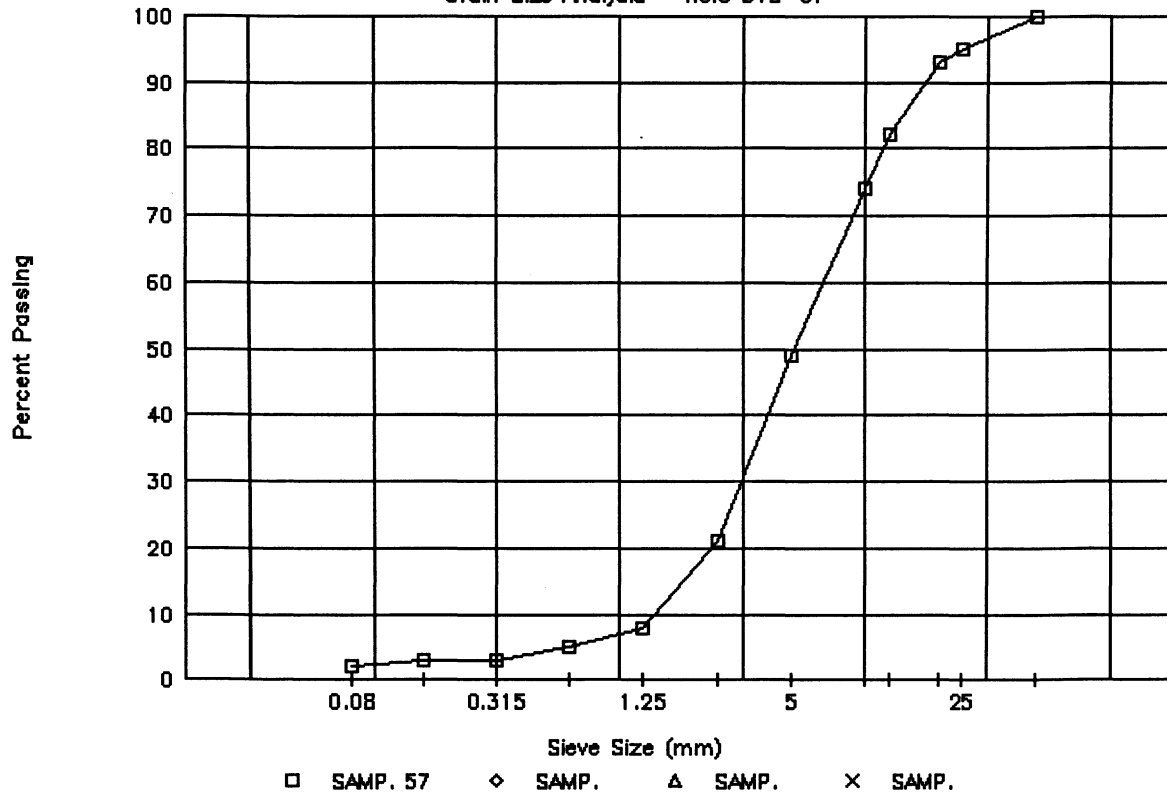
LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 68
 % SAND: 30
 % FINES: 2

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

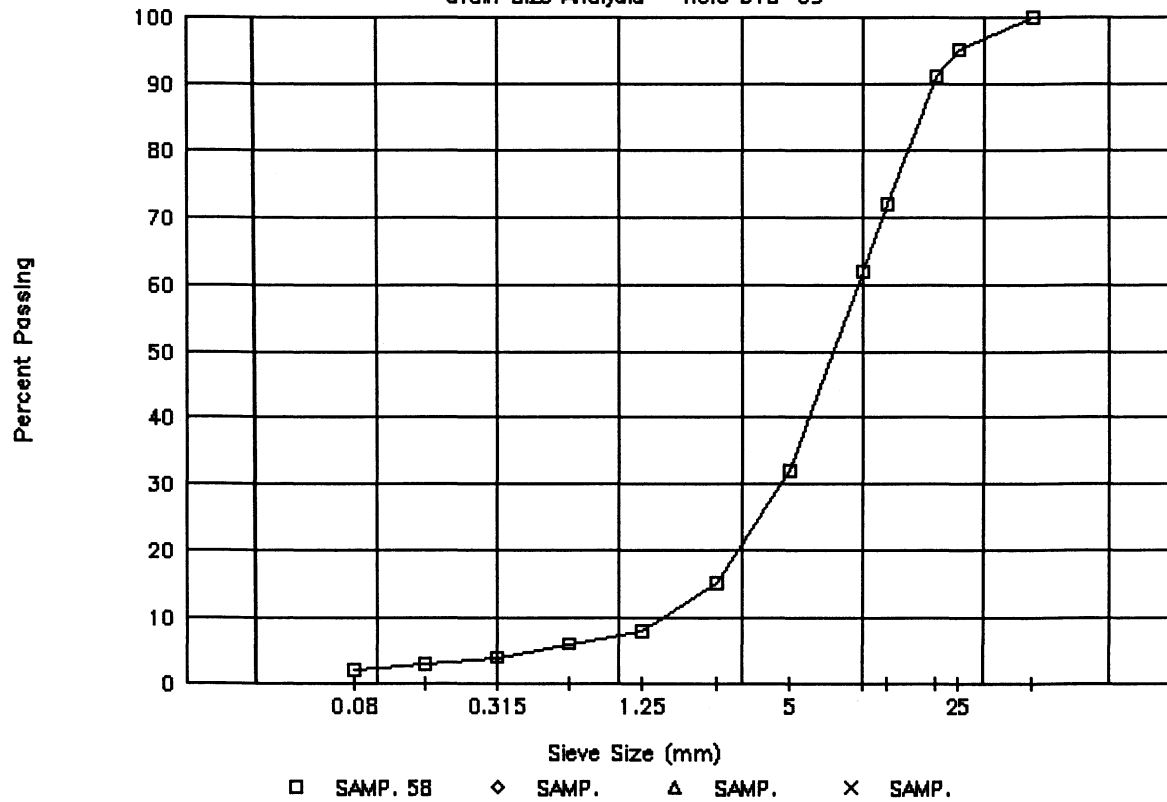
Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 31B-67



Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 31B-69



PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 318-74
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: BACKHOE: CAT 225
 HOLE LOCATION: 1888+700 O/S 10M LT
 LOGGED BY: DA DATE COMPLETED: 94.08.25

FIELD NO: 61
 LAB NO: 2364
 DEPTH: 1.8-2.2
 TYPE: BULK

FIELD NO: 62
 LAB NO: 2365
 DEPTH: 3.2-3.4
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	90
31.5	--
25.0	72
20.0	65
12.5	48
10.0	40
5.0	22
2.5	13
2.0	--
1.25	8
0.840	--
0.630	5
0.420	--
0.315	4
0.160	3
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	64
31.5	--
25.0	50
20.0	45
12.5	38
10.0	34
5.0	22
2.5	13
2.0	--
1.25	8
0.840	--
0.630	6
0.420	--
0.315	4
0.160	4
0.150	--
0.080	3

M.C. (%): --

M.C. (%): --

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 78
 % SAND: 20
 % FINES: 3

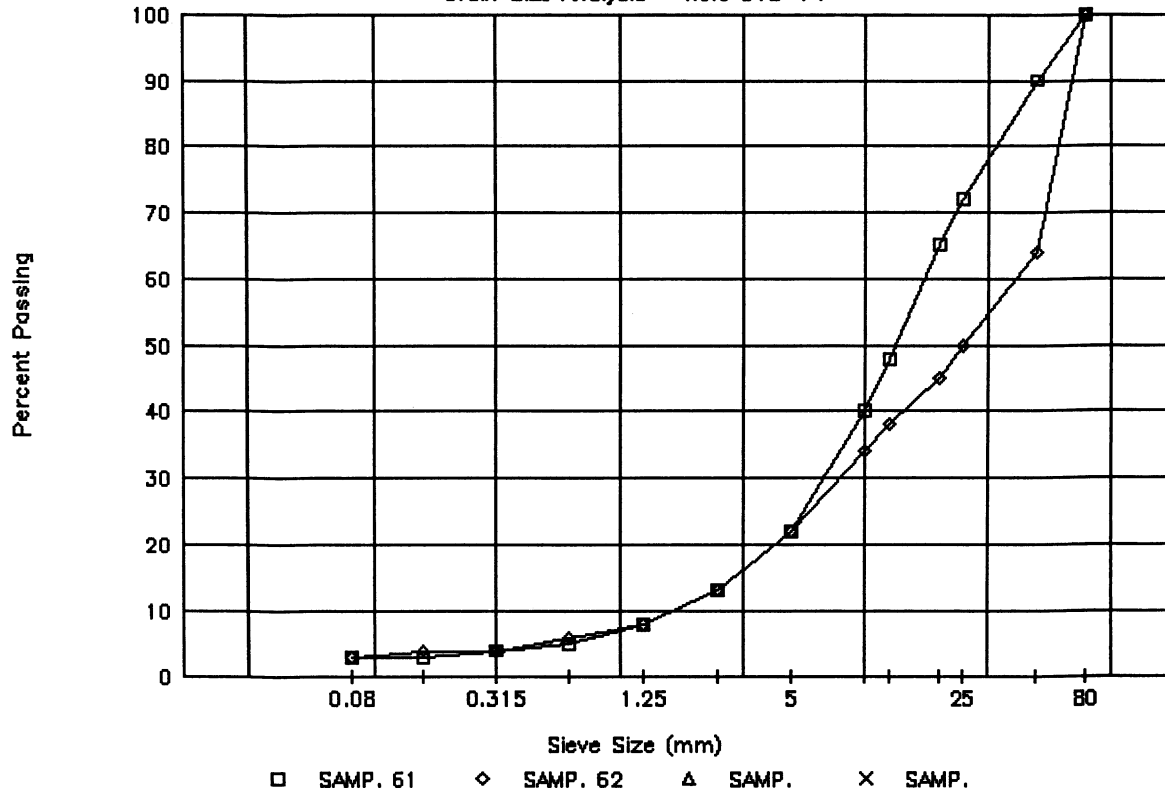
% GRAVEL: 78
 % SAND: 19
 % FINES: 3

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SAND
 (GP)

Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 318-74



PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 319-76
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: BACKHOE: CAT 225
 HOLE LOCATION: 1888+775 O/S 50M LT
 LOGGED BY: DA DATE COMPLETED: 94.08.26

FIELD NO: 63
 LAB NO: 2366
 DEPTH: 1.5-1.7
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	84
31.5	--
25.0	71
20.0	66
12.5	56
10.0	50
5.0	34
2.5	25
2.0	--
1.25	21
0.840	--
0.630	19
0.420	--
0.315	18
0.160	17
0.150	--
0.080	16

M.C. (%) : --

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 66
 % SAND: 18
 % FINES: 16

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 319-77
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: BACKHOE: CAT 225
 HOLE LOCATION: 1888+775 O/S 100M LT
 LOGGED BY: DA DATE COMPLETED: 94.08.26

FIELD NO: 64
 LAB NO: 2367
 DEPTH: 1.0-1.2
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	84
31.5	--
25.0	66
20.0	60
12.5	51
10.0	47
5.0	30
2.5	21
2.0	--
1.25	15
0.840	--
0.630	12
0.420	--
0.315	11
0.160	10
0.150	--
0.080	10

M.C. (%): --

LIMITS

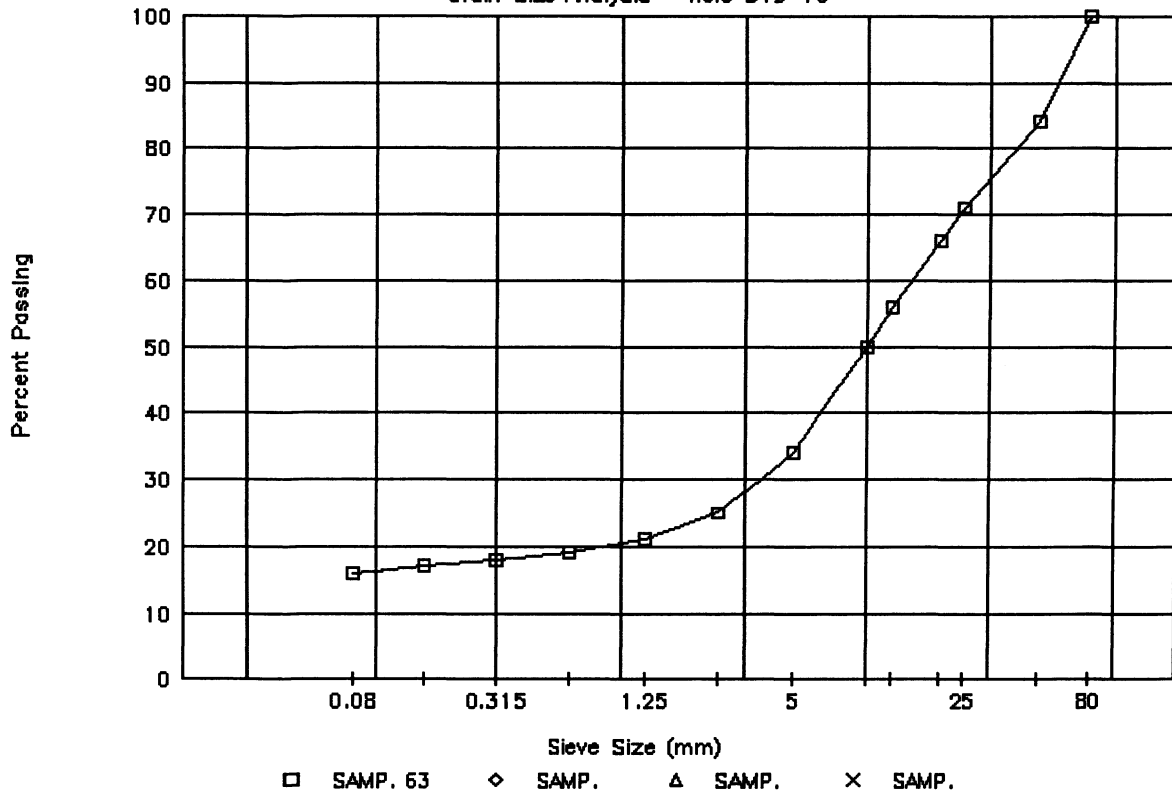
LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 70
 % SAND: 21
 % FINES: 10

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

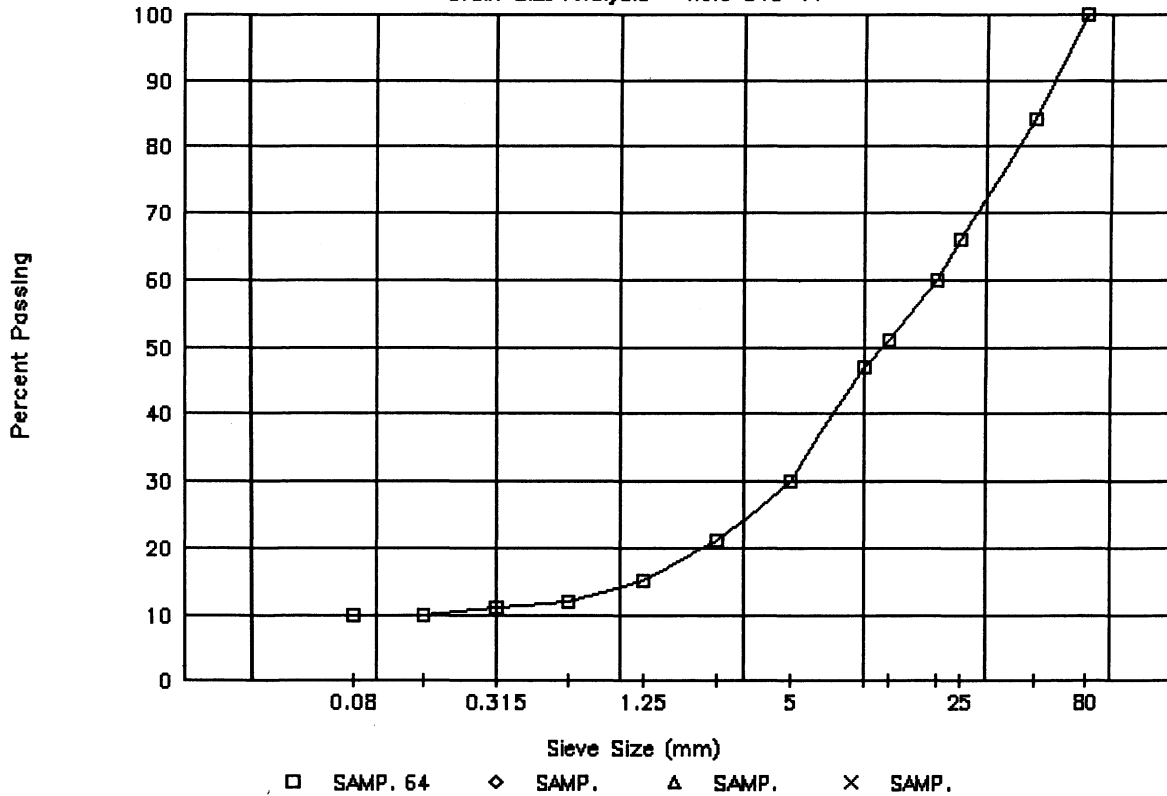
Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 319-76



Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 319-77



PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 319-78
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: BACKHOE: CAT 225
 HOLE LOCATION: 1888+850 O/S 20M LT
 LOGGED BY: DA DATE COMPLETED: 94.08.26

FIELD NO: 65
 LAB NO: 2368
 DEPTH: 1.4-1.6
 TYPE: BULK

FIELD NO: 66
 LAB NO: 2369
 DEPTH: 2.8-3.0
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	82
20.0	79
12.5	67
10.0	59
5.0	42
2.5	31
2.0	--
1.25	26
0.840	--
0.630	22
0.420	--
0.315	17
0.160	10
0.150	--
0.080	7

SIEVE SIZE	PERCENT PASSING
100.0	100
80.0	66
50.0	66
31.5	--
25.0	58
20.0	53
12.5	43
10.0	35
5.0	21
2.5	14
2.0	--
1.25	10
0.840	--
0.630	8
0.420	--
0.315	6
0.160	3
0.150	--
0.080	2

M.C. (%): --

M.C. (%): --

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 58
 % SAND: 34
 % FINES: 7

% GRAVEL: 79
 % SAND: 19
 % FINES: 2

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 319-81
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: BACKHOE: CAT 225
 HOLE LOCATION: 1889+075 O/S 15M LT
 LOGGED BY: DA DATE COMPLETED: 94.08.26

FIELD NO: 69
 LAB NO: 2372
 DEPTH: 1.4-1.6
 TYPE: BULK

FIELD NO: 70
 LAB NO: 2373
 DEPTH: 2.7-2.9
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	89
31.5	--
25.0	80
20.0	72
12.5	54
10.0	43
5.0	19
2.5	8
2.0	--
1.25	5
0.840	--
0.630	3
0.420	--
0.315	3
0.160	2
0.150	--
0.080	2

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	82
12.5	63
10.0	52
5.0	27
2.5	13
2.0	--
1.25	7
0.840	--
0.630	5
0.420	--
0.315	3
0.160	3
0.150	--
0.080	2

M.C. (%): --

M.C. (%): --

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 81
 % SAND: 17
 % FINES: 2

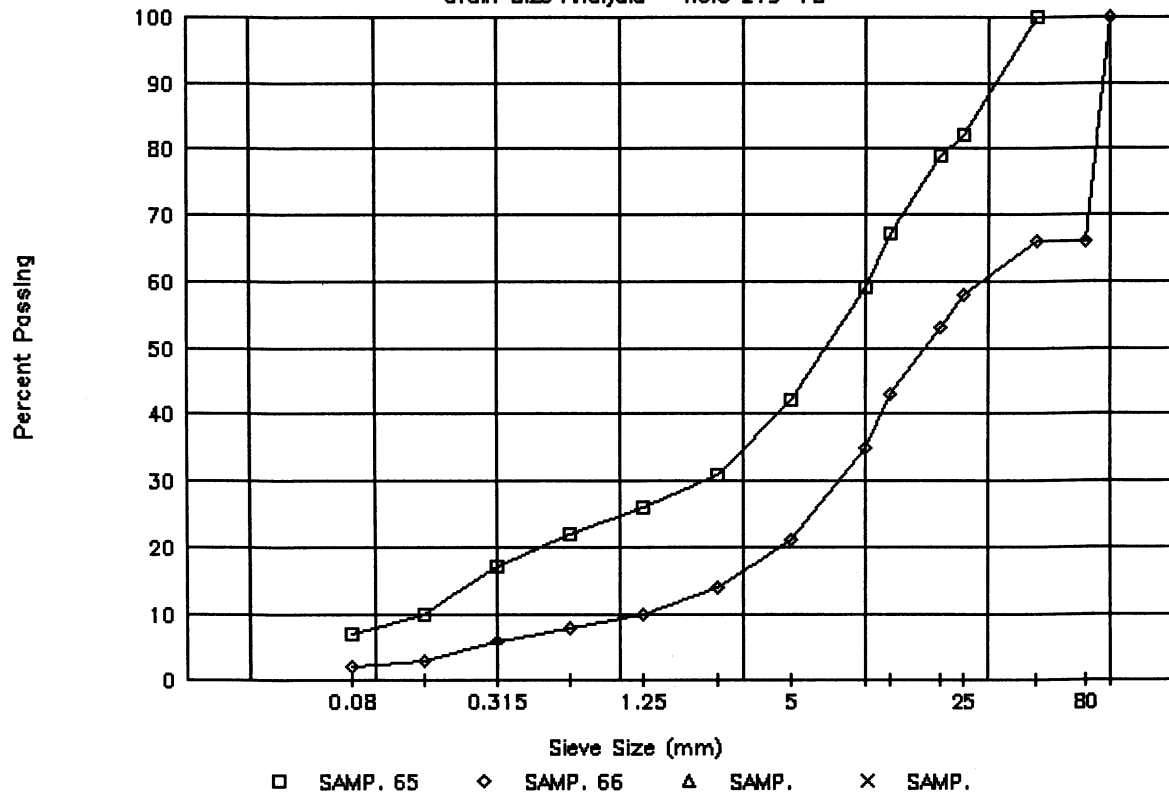
% GRAVEL: 73
 % SAND: 25
 % FINES: 2

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

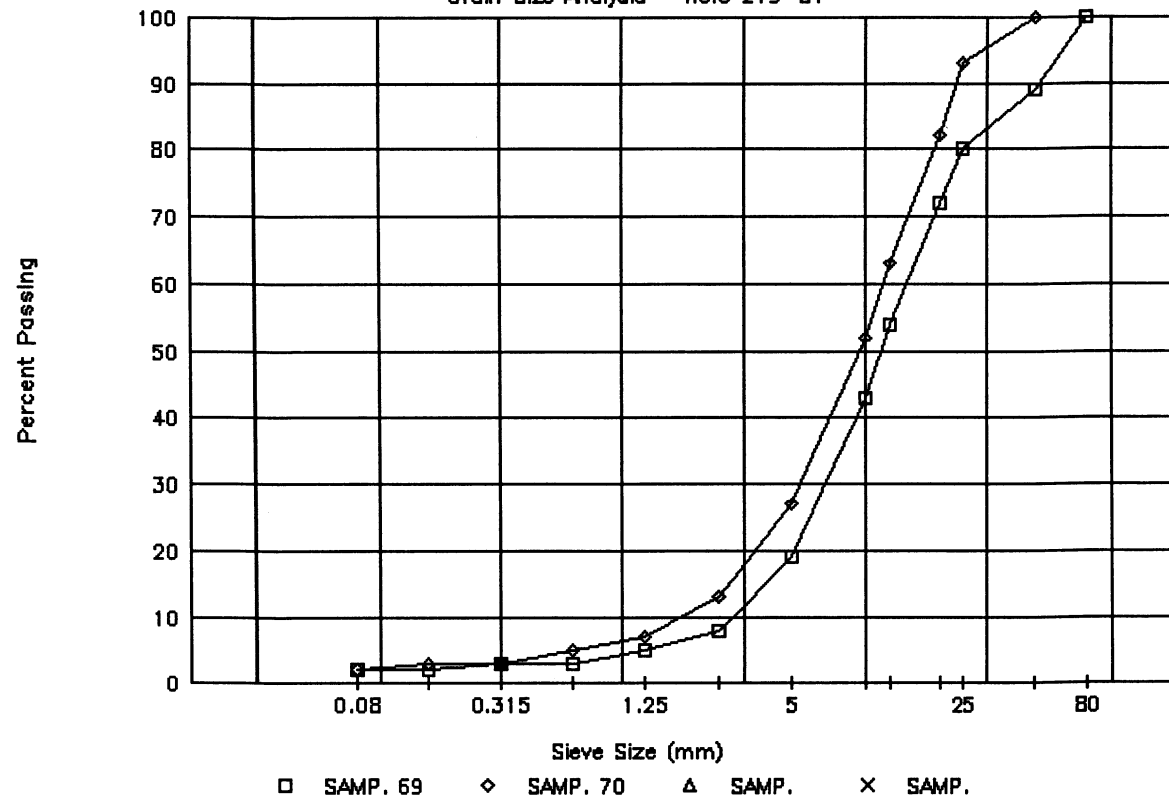
Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 219-78



Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 219-81



PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 319-82
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: BACKHOE: CAT 225
 HOLE LOCATION: 1889+150 O/S 20M LT
 LOGGED BY: DA DATE COMPLETED: 94.08.26

FIELD NO: 71
 LAB NO: 2374
 DEPTH: 1.5-1.7
 TYPE: BULK

FIELD NO: 72
 LAB NO: 2375
 DEPTH: 2.8-3.1
 TYPE: BULK

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	78
31.5	--
25.0	69
20.0	65
12.5	54
10.0	46
5.0	28
2.5	15
2.0	--
1.25	9
0.840	--
0.630	6
0.420	--
0.315	5
0.160	4
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	84
12.5	62
10.0	49
5.0	26
2.5	14
2.0	--
1.25	9
0.840	--
0.630	7
0.420	--
0.315	6
0.160	5
0.150	--
0.080	5

M.C. (%): --

M.C. (%): --

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 72
 % SAND: 25
 % FINES: 3

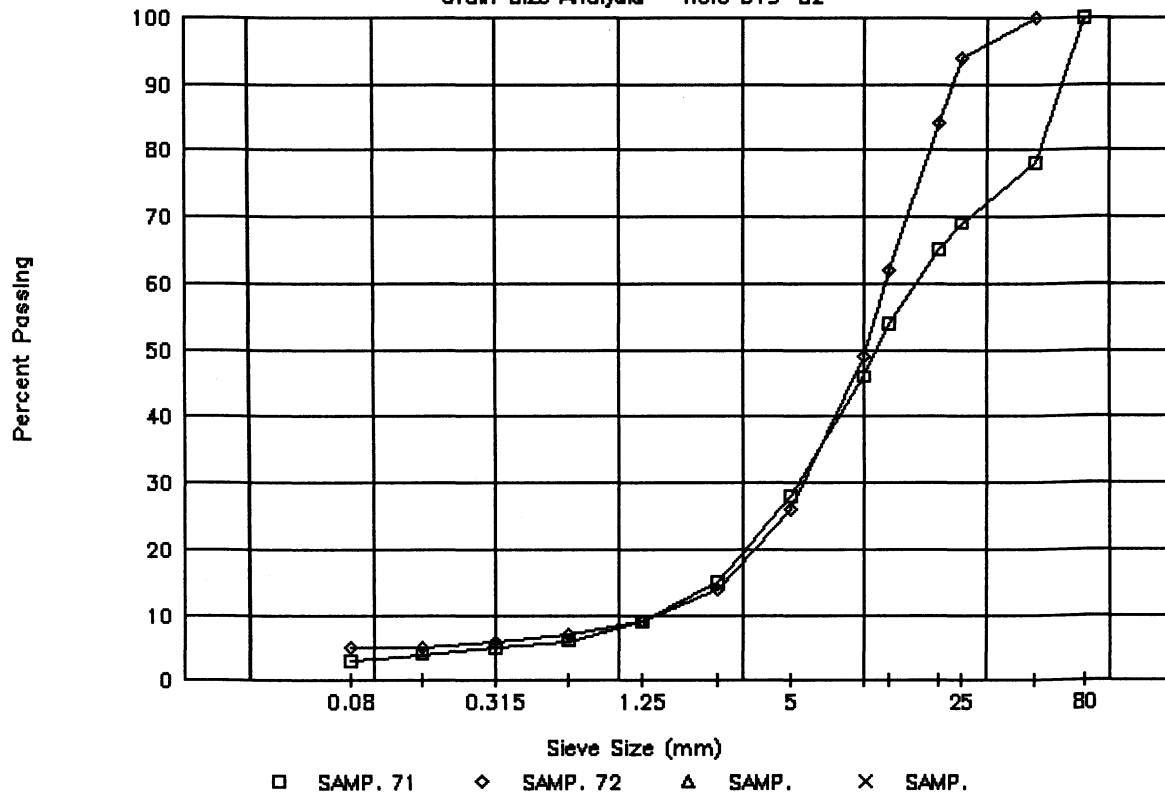
% GRAVEL: 74
 % SAND: 21
 % FINES: 5

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 319-82



PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 321-201
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-003
 HOLE LOCATION: 1891+475 O/S 25M RT
 LOGGED BY: DT DATE COMPLETED: 94.08.30

FIELD NO: 203
 LAB NO: 1694
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 204
 LAB NO: 1695
 DEPTH: 2.9-3.1
 TYPE: AUGER
 NOT TESTED

FIELD NO: 205
 LAB NO: 1696
 DEPTH: 4.4-4.6
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	86
12.5	70
10.0	60
5.0	33
2.5	18
2.0	--
1.25	11
0.840	--
0.630	7
0.420	--
0.315	5
0.160	3
0.150	--
0.080	2

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	82
12.5	68
10.0	58
5.0	39
2.5	26
2.0	--
1.25	18
0.840	--
0.630	11
0.420	--
0.315	8
0.160	6
0.150	--
0.080	4

M.C. (%) : 3

M.C. (%) : 2

M.C. (%) : 4

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 67
 % SAND: 30
 % FINES: 2

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: 61
 % SAND: 36
 % FINES: 4

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 321-204
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-003
 HOLE LOCATION: 1891+250 O/S 25M RT
 LOGGED BY: DT DATE COMPLETED: 94.08.30

FIELD NO: 217
 LAB NO: 1709
 DEPTH: 1.3-1.5
 TYPE: AUGER
 ORGANIC

FIELD NO: 218
 LAB NO: 1710
 DEPTH: 2.9-3.1
 TYPE: AUGER

FIELD NO: 219
 LAB NO: 1711
 DEPTH: 4.3-4.5
 TYPE: AUGER
 NOT TESTED

FIELD NO: 220
 LAB NO: 1712
 DEPTH: 5.9-6.1
 TYPE: AUGER
 NOT TESTED

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	99
5.0	93
2.5	89
2.0	--
1.25	87
0.840	--
0.630	86
0.420	--
0.315	84
0.160	82
0.150	--
0.080	79

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	90
20.0	80
12.5	65
10.0	60
5.0	42
2.5	28
2.0	--
1.25	20
0.840	--
0.630	16
0.420	--
0.315	13
0.160	11
0.150	--
0.080	9

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%) : 66

M.C. (%) : 8

M.C. (%) : 9

M.C. (%) : 7

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 7
 % SAND: 14
 % FINES: 79

% GRAVEL: 58
 % SAND: 33
 % FINES: 9

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 321-204
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-003
 HOLE LOCATION: 1891+250 O/S 25M RT
 LOGGED BY: DT DATE COMPLETED: 94.08.30

FIELD NO: 221
 LAB NO: 1713
 DEPTH: 8.8-9.0
 TYPE: AUGER
 NOT TESTED

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%) : 7

LIMITS

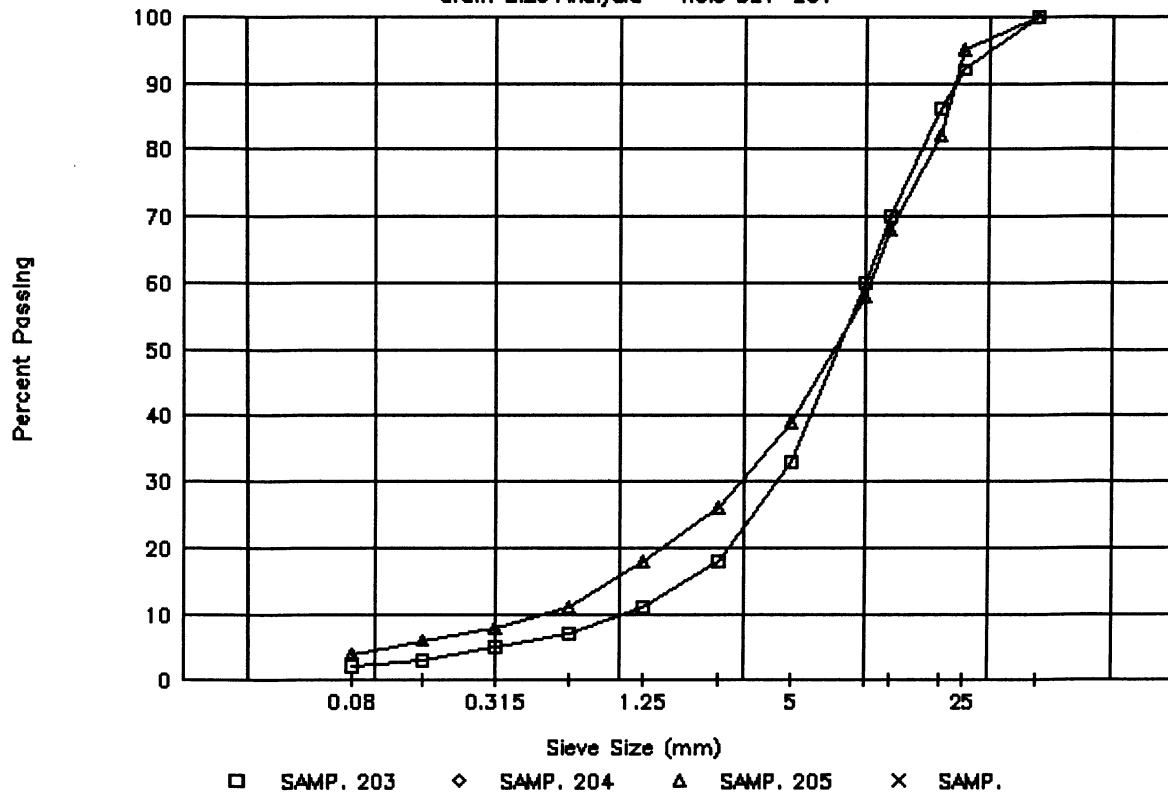
LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:

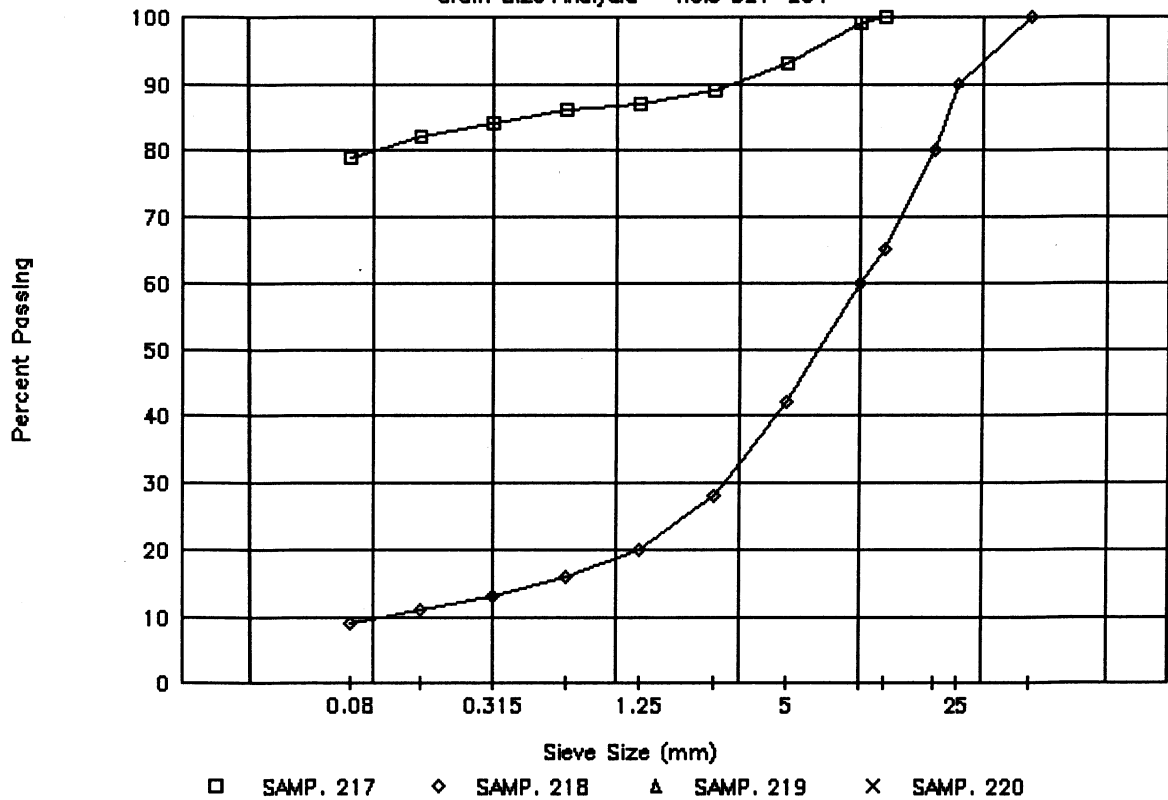
Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 321-201



Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 321-204



PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 321-206
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-003
 HOLE LOCATION: 1891+100 O/S 25M RT
 LOGGED BY: DT DATE COMPLETED: 94.08.30

FIELD NO: 226
 LAB NO: 1718
 DEPTH: 10.3-1.5
 TYPE: AUGER

FIELD NO: 227
 LAB NO: 1719
 DEPTH: 2.9-3.1
 TYPE: AUGER
 NOT TESTED

FIELD NO: 228
 LAB NO: 1720
 DEPTH: 4.4-4.6
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	80
20.0	66
12.5	55
10.0	47
5.0	28
2.5	16
2.0	--
1.25	12
0.840	--
0.630	9
0.420	--
0.315	7
0.160	6
0.150	--
0.080	5

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	93
12.5	77
10.0	68
5.0	32
2.5	12
2.0	--
1.25	4
0.840	--
0.630	2
0.420	--
0.315	1
0.160	1
0.150	--
0.080	1

M.C. (%): 4

M.C. (%): 5

M.C. (%): 5

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 72
 % SAND: 23
 % FINES: 5

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: 68
 % SAND: 31
 % FINES: 1

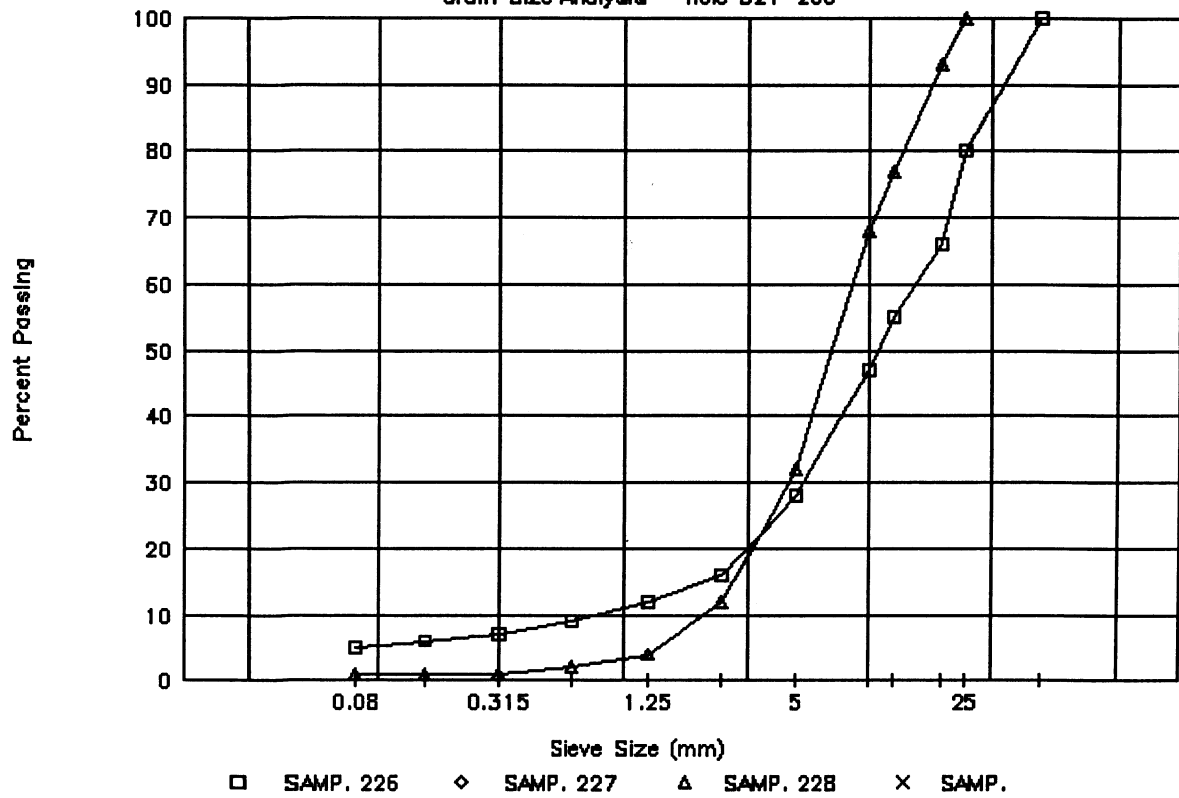
CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

CLASSIFICATION:

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 321-206



PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 323-210
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-003
 HOLE LOCATION: 1890+425 O/S 25M RT
 LOGGED BY: DT DATE COMPLETED: 94.09.07

FIELD NO: 240
 LAB NO: 1732
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 241
 LAB NO: 1733
 DEPTH: 2.9-3.1
 TYPE: AUGER

FIELD NO: 242
 LAB NO: 1734
 DEPTH: 4.4-4.6
 TYPE: AUGER

FIELD NO: 243
 LAB NO: 1735
 DEPTH: 5.9-6.1
 TYPE: AUGER
 NOT TESTED

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	95
12.5	77
10.0	61
5.0	28
2.5	13
2.0	--
1.25	8
0.840	--
0.630	6
0.420	--
0.315	5
0.160	4
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	76
12.5	58
10.0	46
5.0	22
2.5	9
2.0	--
1.25	4
0.840	--
0.630	2
0.420	--
0.315	2
0.160	2
0.150	--
0.080	1

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	77
12.5	61
10.0	51
5.0	26
2.5	10
2.0	--
1.25	4
0.840	--
0.630	2
0.420	--
0.315	1
0.160	1
0.150	--
0.080	1

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%) : 3

M.C. (%) : 3

M.C. (%) : 2

M.C. (%) : 6

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 72
 % SAND: 24
 % FINES: 3

% GRAVEL: 78
 % SAND: 21
 % FINES: 1

% GRAVEL: 74
 % SAND: 25
 % FINES: 1

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 323-210
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-003
 HOLE LOCATION: 1890+425 O/S 25M RT
 LOGGED BY: DT DATE COMPLETED: 94.09.07

FIELD NO: 244
 LAB NO: 1736
 DEPTH: 8.8-9.0
 TYPE: AUGER
 NOT TESTED

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%): 16

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 323-213
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-003
 HOLE LOCATION: 1890+200 O/S 25M RT
 LOGGED BY: DT DATE COMPLETED: 94.09.07

FIELD NO: 256
 LAB NO: 1747
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 257
 LAB NO: 1748
 DEPTH: 2.9-3.1
 TYPE: AUGER

FIELD NO: 258
 LAB NO: 1749
 DEPTH: 4.4-4.6
 TYPE: AUGER
 NOT TESTED

FIELD NO: 259
 LAB NO: 1750
 DEPTH: 5.9-6.1
 TYPE: AUGER
 NOT TESTED

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	80
12.5	61
10.0	53
5.0	32
2.5	19
2.0	--
1.25	14
0.840	--
0.630	12
0.420	--
0.315	10
0.160	8
0.150	--
0.080	7

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	99
12.5	95
10.0	92
5.0	76
2.5	43
2.0	--
1.25	20
0.840	--
0.630	11
0.420	--
0.315	7
0.160	5
0.150	--
0.080	4

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%): 6

M.C. (%): 8

M.C. (%): 3

M.C. (%): 6

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: --

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: --

% GRAVEL: 68
 % SAND: 25
 % FINES: 7

% GRAVEL: 24
 % SAND: 72
 % FINES: 4

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:
 WELL-GRADED SAND
 WITH GRAVEL (SW)

CLASSIFICATION:

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 323-213
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-003
 HOLE LOCATION: 1890+200 O/S 25M RT
 LOGGED BY: DT DATE COMPLETED: 94.09.07

FIELD NO: 260
 LAB NO: 1751
 DEPTH: 8.8-9.0
 TYPE: AUGER
 NOT TESTED

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%) : 4

LIMITS

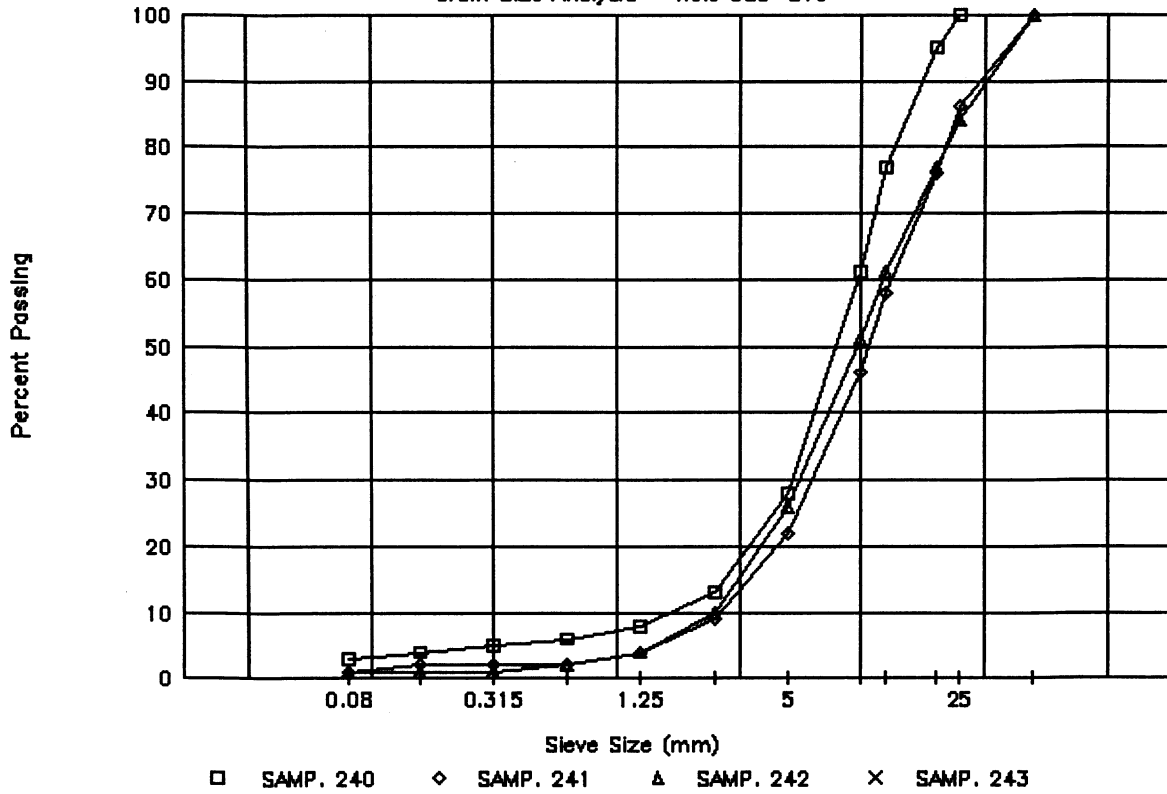
LIQUID: --
 PLASTIC: --
 P.I.: --

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:

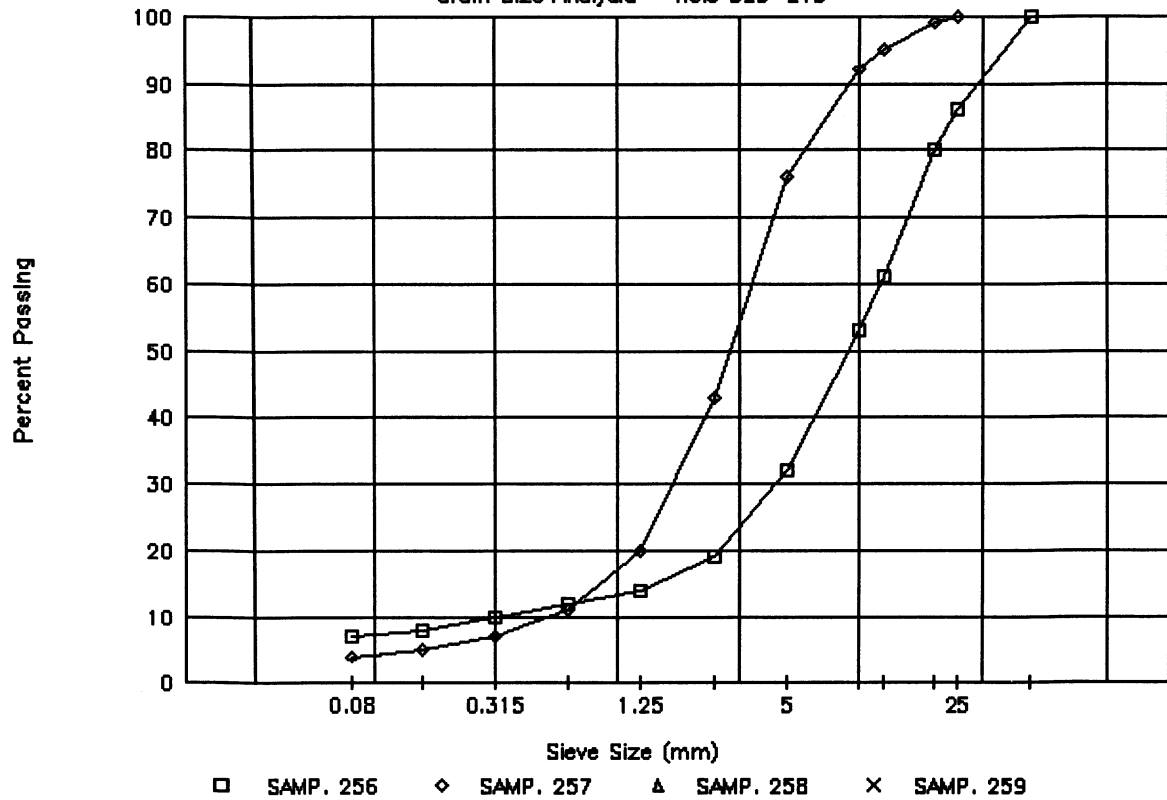
Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 323-210



Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 323-213



PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 323-218
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-003
 HOLE LOCATION: 1889+125 O/S 25M RT
 LOGGED BY: DT DATE COMPLETED: 94.09.08

FIELD NO: 275
 LAB NO: 1766
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 276
 LAB NO: 1767
 DEPTH: 2.9-3.1
 TYPE: AUGER
 NOT TESTED

FIELD NO: 277
 LAB NO: 1768
 DEPTH: 4.4-4.6
 TYPE: AUGER

FIELD NO: 278
 LAB NO: 1769
 DEPTH: 5.5-5.7
 TYPE: AUGER
 NOT TESTED

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	95
12.5	78
10.0	66
5.0	37
2.5	20
2.0	--
1.25	11
0.840	--
0.630	8
0.420	--
0.315	6
0.160	5
0.150	--
0.080	4

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	82
20.0	68
12.5	49
10.0	37
5.0	19
2.5	10
2.0	--
1.25	7
0.840	--
0.630	5
0.420	--
0.315	3
0.160	3
0.150	--
0.080	2

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%): 4

M.C. (%): 3

M.C. (%): 2

M.C. (%): 4

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: --

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: --

% GRAVEL: 63
 % SAND: 33
 % FINES: 4

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: 81
 % SAND: 17
 % FINES: 2

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 323-220
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-003
 HOLE LOCATION: 1888+975 O/S 20M RT
 LOGGED BY: DT DATE COMPLETED: 94.09.08

FIELD NO: 284
 LAB NO: 1775
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 285
 LAB NO: 1776
 DEPTH: 2.9-3.1
 TYPE: AUGER

FIELD NO: 286
 LAB NO: 1777
 DEPTH: 4.4-4.6
 TYPE: AUGER

FIELD NO: 287
 LAB NO: 1778
 DEPTH: 5.9-6.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	96
12.5	83
10.0	70
5.0	28
2.5	20
2.0	--
1.25	13
0.840	--
0.630	10
0.420	--
0.315	8
0.160	7
0.150	--
0.080	6

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	70
12.5	52
10.0	45
5.0	29
2.5	19
2.0	--
1.25	13
0.840	--
0.630	11
0.420	--
0.315	9
0.160	8
0.150	--
0.080	6

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	91
12.5	78
10.0	70
5.0	48
2.5	30
2.0	--
1.25	20
0.840	--
0.630	15
0.420	--
0.315	12
0.160	10
0.150	--
0.080	8

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	78
20.0	72
12.5	50
10.0	41
5.0	23
2.5	13
2.0	--
1.25	9
0.840	--
0.630	7
0.420	--
0.315	6
0.160	5
0.150	--
0.080	4

M.C. (%): 8

M.C. (%): 8

M.C. (%): 8

M.C. (%): 4

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 72
 % SAND: 22
 % FINES: 6

% GRAVEL: 71
 % SAND: 22
 % FINES: 6

% GRAVEL: 52
 % SAND: 39
 % FINES: 8

% GRAVEL: 77
 % SAND: 19
 % FINES: 4

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 323-220
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-003
 HOLE LOCATION: 1888+975 O/S 20M RT
 LOGGED BY: DT DATE COMPLETED: 94.09.08

FIELD NO: 288
 LAB NO: 1779
 DEPTH: 7.8-8.0
 TYPE: AUGER
 NOT TESTED

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%): 6

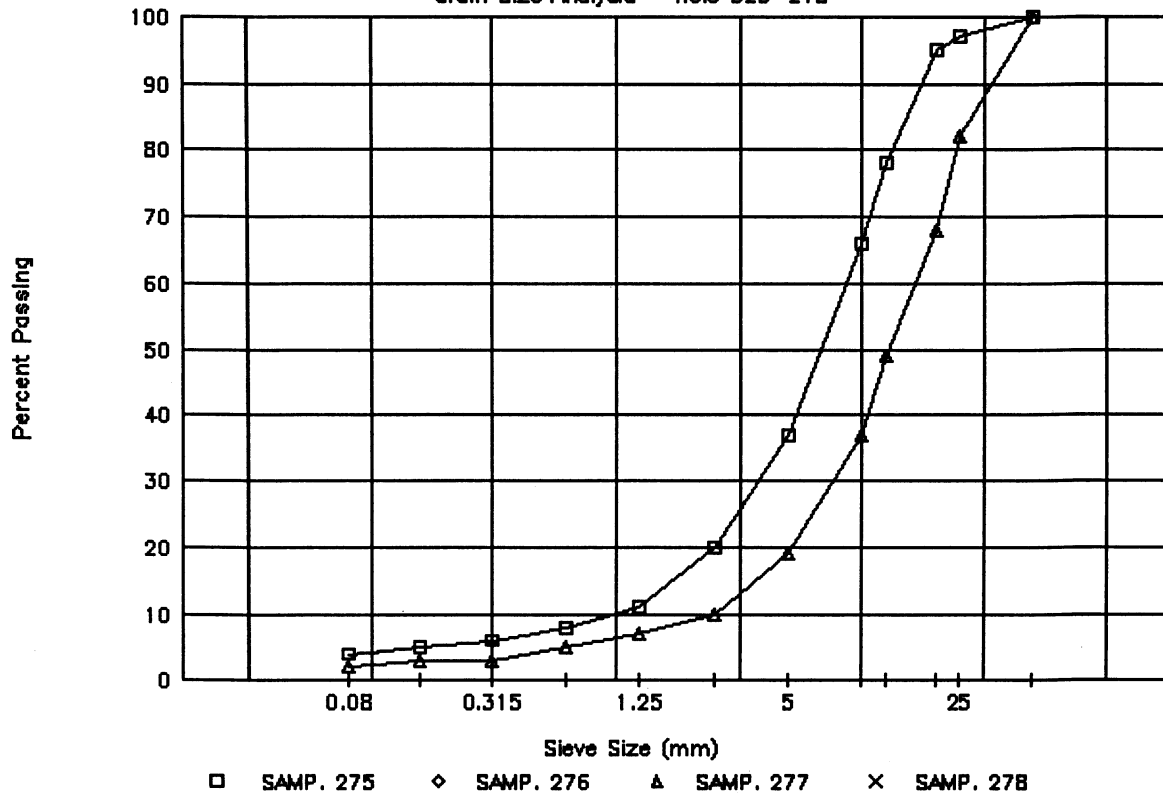
LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: --

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:

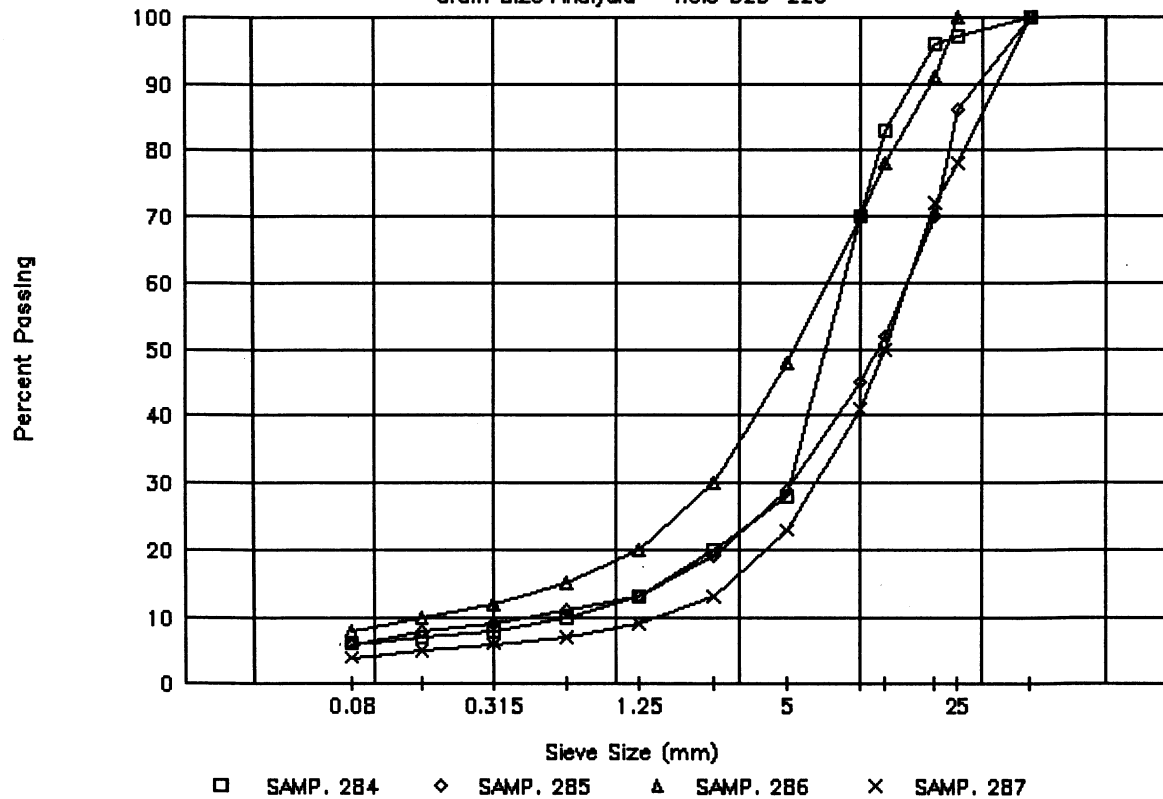
Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 323-218



Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 323-220



PROJECT NUMBER: 092-202101-0312-194 **HOLE NUMBER:** 330-222
CLIENT: ENGINEERING-CAPITAL
PROJECT NAME: SHAKWAK PROJECT
PROJECT LOCATION: SEGMENT 16
DRILL UNIT: 36-003
HOLE LOCATION: 1888+825 O/S 25M RT
LOGGED BY: DT **DATE COMPLETED:** 94.09.08

FIELD NO: 294
LAB NO: 1785
DEPTH: 1.3-1.5
TYPE: AUGER

FIELD NO: 295
LAB NO: 1786
DEPTH: 2.9-3.1
TYPE: AUGER

FIELD NO: 296
LAB NO: 1787
DEPTH: 4.4-4.6
TYPE: AUGER

FIELD NO: 297
LAB NO: 1788
DEPTH: 5.9-6.1
TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	85
20.0	70
12.5	43
10.0	34
5.0	18
2.5	11
2.0	--
1.25	8
0.840	--
0.630	7
0.420	--
0.315	5
0.160	5
0.150	--
0.080	4

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	85
20.0	74
12.5	56
10.0	45
5.0	24
2.5	13
2.0	--
1.25	9
0.840	--
0.630	7
0.420	--
0.315	5
0.160	4
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	78
20.0	70
12.5	56
10.0	48
5.0	22
2.5	11
2.0	--
1.25	7
0.840	--
0.630	5
0.420	--
0.315	4
0.160	3
0.150	--
0.080	2

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	89
12.5	65
10.0	52
5.0	26
2.5	14
2.0	--
1.25	9
0.840	--
0.630	7
0.420	--
0.315	6
0.160	5
0.150	--
0.080	4

M.C. (%) : 4

M.C. (%) : 3

M.C. (%) : 3

M.C. (%) : 3

LIMITS
LIQUID: --
PLASTIC: --
P.I.: N.P.

LIMITS
LIQUID: --
PLASTIC: --
P.I.: N.P.

LIMITS
LIQUID: --
PLASTIC: --
P.I.: N.P.

LIMITS
LIQUID: --
PLASTIC: --
P.I.: N.P.

% GRAVEL: 82
% SAND: 14
% FINES: 4

% GRAVEL: 76
% SAND: 21
% FINES: 3

% GRAVEL: 78
% SAND: 20
% FINES: 2

% GRAVEL: 74
% SAND: 22
% FINES: 4

CLASSIFICATION:
 WELL-GRADED
 GRAVEL (GW)

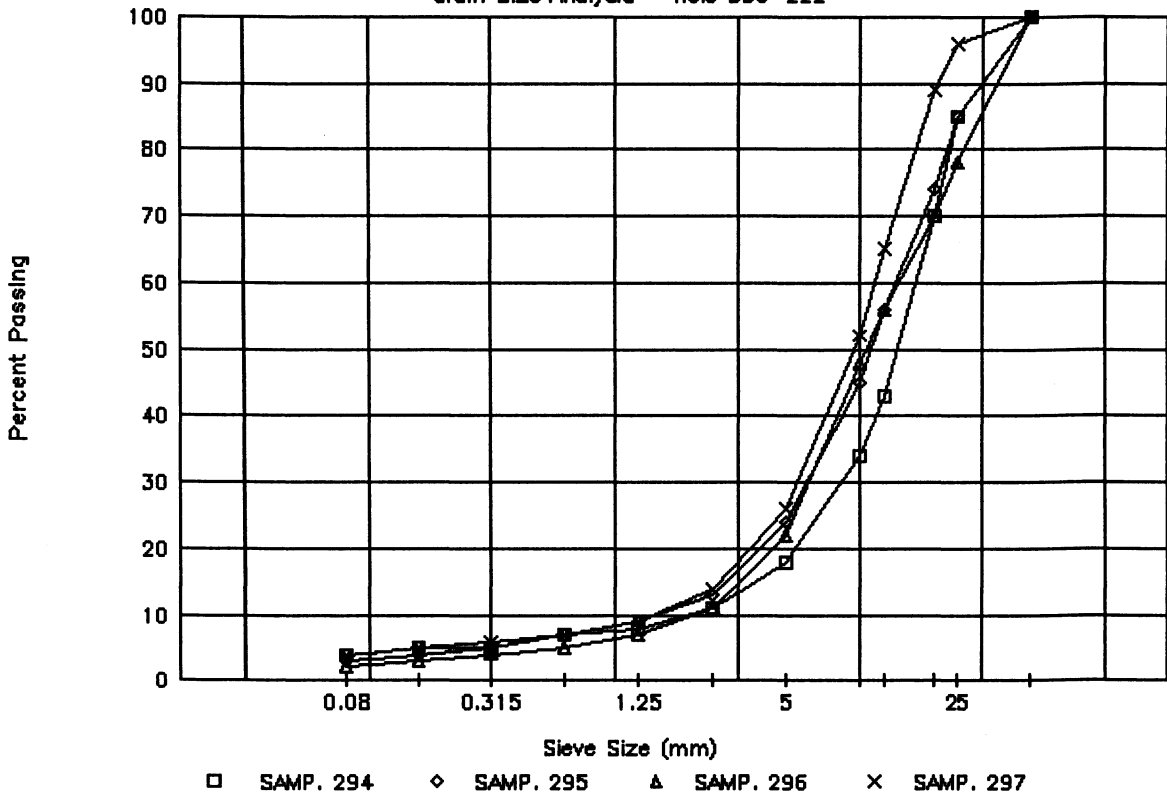
CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 330-222



PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 330-223
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-003
 HOLE LOCATION: 1888+750 O/S 25M RT
 LOGGED BY: DT DATE COMPLETED: 94.09.08

FIELD NO: 298
 LAB NO: 1789
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 299
 LAB NO: 1790
 DEPTH: 2.9-3.1
 TYPE: AUGER

FIELD NO: 300
 LAB NO: 1791
 DEPTH: 4.4-4.6
 TYPE: AUGER

FIELD NO: 301
 LAB NO: 1792
 DEPTH: 5.9-6.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	84
10.0	74
5.0	49
2.5	28
2.0	--
1.25	17
0.840	--
0.630	12
0.420	--
0.315	9
0.160	7
0.150	--
0.080	6

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	91
12.5	72
10.0	60
5.0	35
2.5	19
2.0	--
1.25	11
0.840	--
0.630	7
0.420	--
0.315	5
0.160	4
0.150	--
0.080	4

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	81
12.5	66
10.0	58
5.0	39
2.5	23
2.0	--
1.25	14
0.840	--
0.630	10
0.420	--
0.315	8
0.160	6
0.150	--
0.080	5

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	95
12.5	84
10.0	77
5.0	54
2.5	31
2.0	--
1.25	20
0.840	--
0.630	14
0.420	--
0.315	11
0.160	9
0.150	--
0.080	8

M.C. (%): 5

M.C. (%): 4

M.C. (%): 4

M.C. (%): 7

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 51
 % SAND: 43
 % FINES: 6

% GRAVEL: 65
 % SAND: 31
 % FINES: 4

% GRAVEL: 61
 % SAND: 34
 % FINES: 5

% GRAVEL: 46
 % SAND: 46
 % FINES: 8

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

CLASSIFICATION:
 POORLY GRADED
 SAND WITH SILT &
 GRAVEL (SP-SM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 330-223
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-003
 HOLE LOCATION: 1888+750 O/S 25M RT
 LOGGED BY: DT DATE COMPLETED: 94.09.08

FIELD NO: 302
 LAB NO: 1793
 DEPTH: 8.8-9.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	92
12.5	79
10.0	71
5.0	48
2.5	30
2.0	--
1.25	20
0.840	--
0.630	15
0.420	--
0.315	12
0.160	10
0.150	--
0.080	8

M.C. (%) : 6

LIMITS

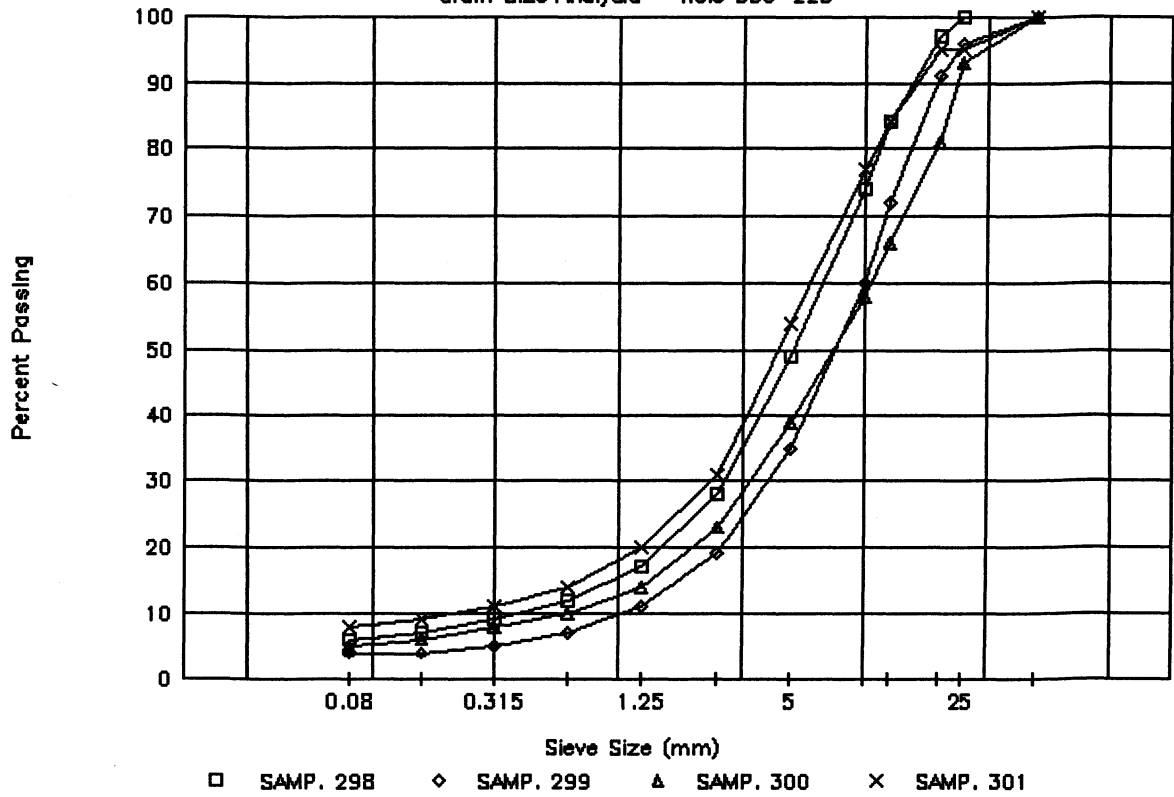
LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 52
 % SAND: 40
 % FINES: 8

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

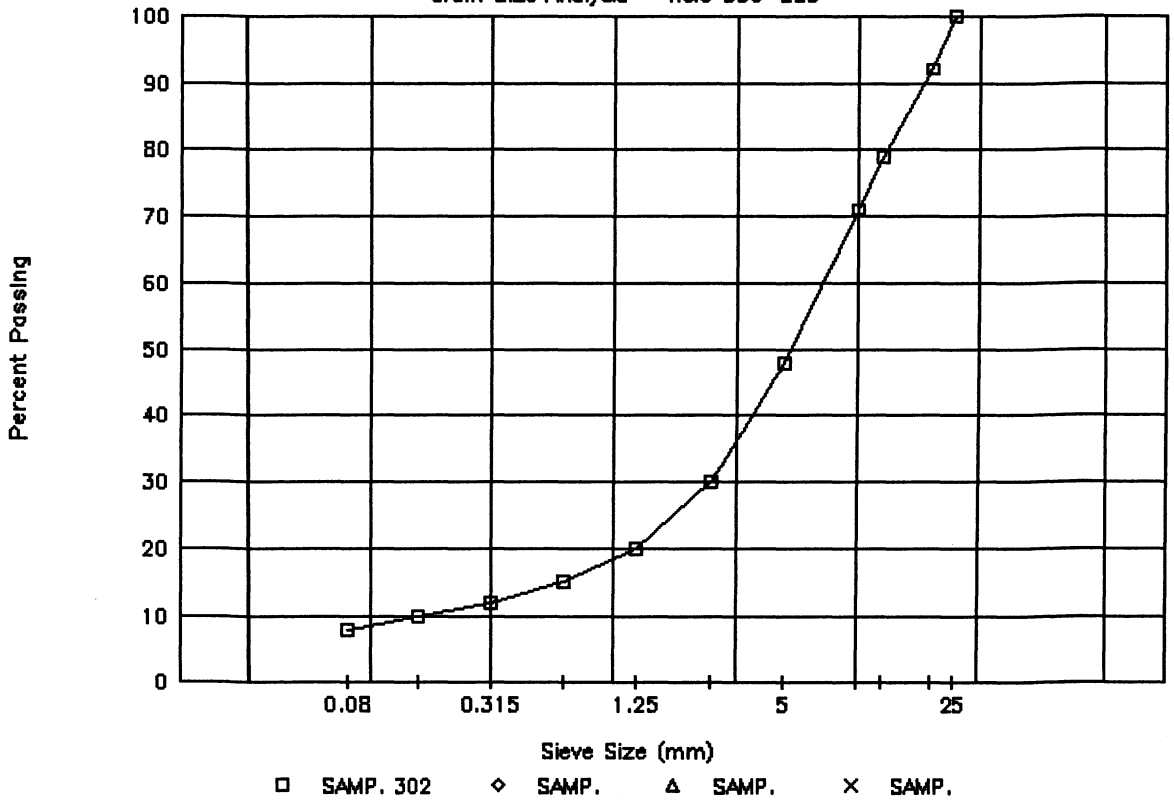
Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 330-223



Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 330-223



PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 330-224
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-003
 HOLE LOCATION: 1888+675 O/S 25M RT
 LOGGED BY: DT DATE COMPLETED: 94.09.08

FIELD NO: 303
 LAB NO: 1794
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 304
 LAB NO: 1795
 DEPTH: 2.9-3.1
 TYPE: AUGER

FIELD NO: 305
 LAB NO: 1796
 DEPTH: 4.4-4.6
 TYPE: AUGER

FIELD NO: 306
 LAB NO: 1797
 DEPTH: 5.9-6.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	90
20.0	74
12.5	61
10.0	53
5.0	33
2.5	21
2.0	--
1.25	14
0.840	--
0.630	11
0.420	--
0.315	9
0.160	8
0.150	--
0.080	7

M.C. (%): 6

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 67
 % SAND: 27
 % FINES: 7

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	95
12.5	81
10.0	72
5.0	38
2.5	20
2.0	--
1.25	11
0.840	--
0.630	7
0.420	--
0.315	5
0.160	4
0.150	--
0.080	3

M.C. (%): 5

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 62
 % SAND: 35
 % FINES: 3

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	86
12.5	62
10.0	48
5.0	27
2.5	17
2.0	--
1.25	12
0.840	--
0.630	9
0.420	--
0.315	7
0.160	6
0.150	--
0.080	4

M.C. (%): 4

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 73
 % SAND: 23
 % FINES: 4

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SAND
 (GP)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	79
12.5	70
10.0	63
5.0	42
2.5	25
2.0	--
1.25	15
0.840	--
0.630	10
0.420	--
0.315	8
0.160	6
0.150	--
0.080	5

M.C. (%): 4

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 58
 % SAND: 38
 % FINES: 5

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 330-226
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-003
 HOLE LOCATION: 1888+800 O/S 20M LT
 LOGGED BY: DT DATE COMPLETED: 94.09.09

FIELD NO: 312
 LAB NO: 1803
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 313
 LAB NO: 1804
 DEPTH: 2.9-3.1
 TYPE: AUGER

FIELD NO: 314
 LAB NO: 1805
 DEPTH: 4.4-4.6
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	84
10.0	78
5.0	57
2.5	39
2.0	--
1.25	27
0.840	--
0.630	21
0.420	--
0.315	16
0.160	13
0.150	--
0.080	11

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	75
20.0	67
12.5	53
10.0	43
5.0	24
2.5	14
2.0	--
1.25	9
0.840	--
0.630	7
0.420	--
0.315	6
0.160	4
0.150	--
0.080	4

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	87
20.0	80
12.5	64
10.0	58
5.0	37
2.5	21
2.0	--
1.25	13
0.840	--
0.630	9
0.420	--
0.315	7
0.160	5
0.150	--
0.080	4

M.C. (%): 7

M.C. (%): 2

M.C. (%): 4

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 43
 % SAND: 46
 % FINES: 11

% GRAVEL: 76
 % SAND: 21
 % FINES: 4

% GRAVEL: 63
 % SAND: 33
 % FINES: 4

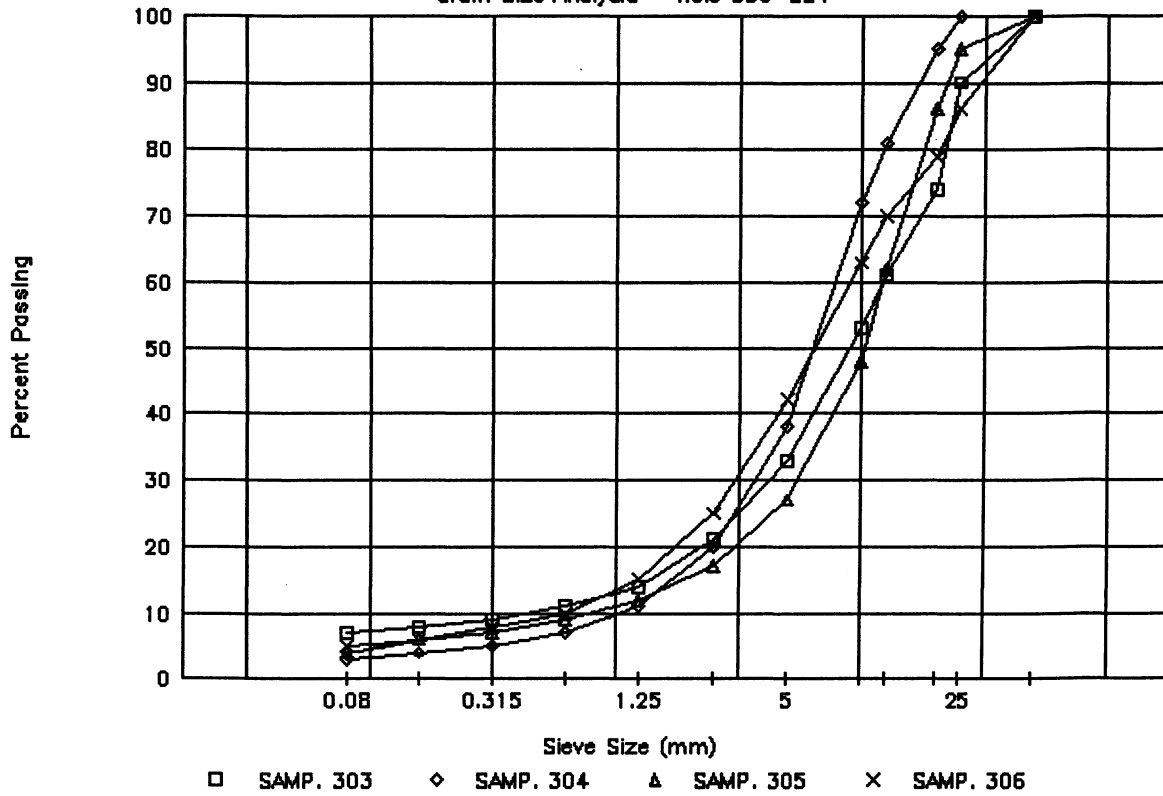
CLASSIFICATION:
 WELL-GRADED SAND
 WITH SILT &
 GRAVEL (SW-SM)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

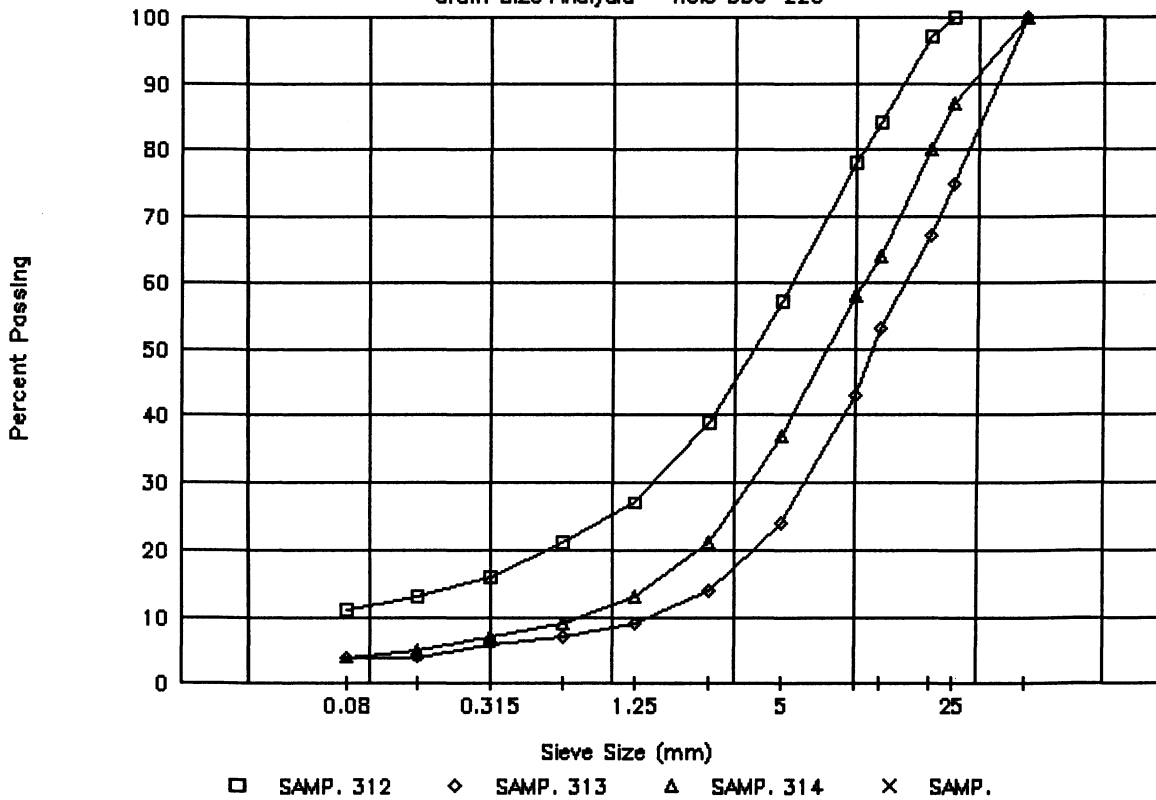
Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 330-224



Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 330-226



PROJECT NUMBER: 092-202101-0312-194 **HOLE NUMBER:** 330-228
CLIENT: ENGINEERING-CAPITAL
PROJECT NAME: SHAKWAK PROJECT
PROJECT LOCATION: SEGMENT 16
DRILL UNIT: 36-003
HOLE LOCATION: 1888+950 O/S 25M LT
LOGGED BY: DT **DATE COMPLETED:** 94.09.09

FIELD NO: 320
LAB NO: 1811
DEPTH: 1.3-1.5
TYPE: AUGER

FIELD NO: 321
LAB NO: 1812
DEPTH: 2.9-3.1
TYPE: AUGER

FIELD NO: 322
LAB NO: 1813
DEPTH: 4.4-4.6
TYPE: AUGER

FIELD NO: 323
LAB NO: 1814
DEPTH: 5.9-6.1
TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	84
12.5	66
10.0	53
5.0	30
2.5	19
2.0	--
1.25	13
0.840	--
0.630	9
0.420	--
0.315	7
0.160	5
0.150	--
0.080	4

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	95
12.5	73
10.0	58
5.0	27
2.5	15
2.0	--
1.25	8
0.840	--
0.630	5
0.420	--
0.315	4
0.160	3
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	81
20.0	70
12.5	53
10.0	43
5.0	22
2.5	11
2.0	--
1.25	7
0.840	--
0.630	5
0.420	--
0.315	4
0.160	3
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	88
20.0	71
12.5	53
10.0	42
5.0	22
2.5	12
2.0	--
1.25	8
0.840	--
0.630	5
0.420	--
0.315	4
0.160	3
0.150	--
0.080	3

M.C. (%) : 3

M.C. (%) : 3

M.C. (%) : 2

M.C. (%) : 3

LIMITS
LIQUID: --
PLASTIC: --
P.I.: N.P.

LIMITS
LIQUID: --
PLASTIC: --
P.I.: N.P.

LIMITS
LIQUID: --
PLASTIC: --
P.I.: N.P.

LIMITS
LIQUID: --
PLASTIC: --
P.I.: N.P.

% GRAVEL: 70
% SAND: 26
% FINES: 4

% GRAVEL: 73
% SAND: 24
% FINES: 3

% GRAVEL: 78
% SAND: 19
% FINES: 3

% GRAVEL: 78
% SAND: 20
% FINES: 3

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 330-228
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-003
 HOLE LOCATION: 1888+950 O/S 25M LT
 LOGGED BY: DT DATE COMPLETED: 94.09.09

FIELD NO: 323
 LAB NO: 1815
 DEPTH: 8.8-9.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	90
20.0	88
12.5	74
10.0	59
5.0	34
2.5	19
2.0	--
1.25	12
0.840	--
0.630	9
0.420	--
0.315	7
0.160	5
0.150	--
0.080	4

M.C. (%) : 3

LIMITS

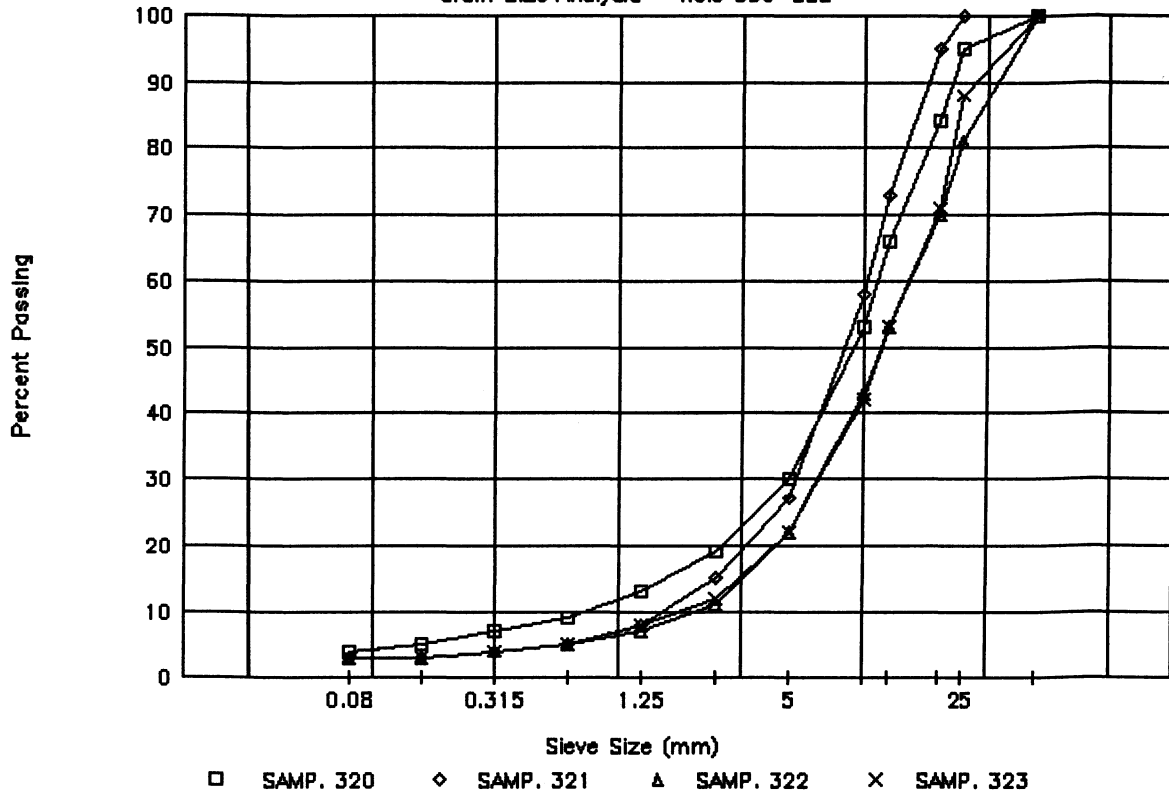
LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 66
 % SAND: 30
 % FINES: 4

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

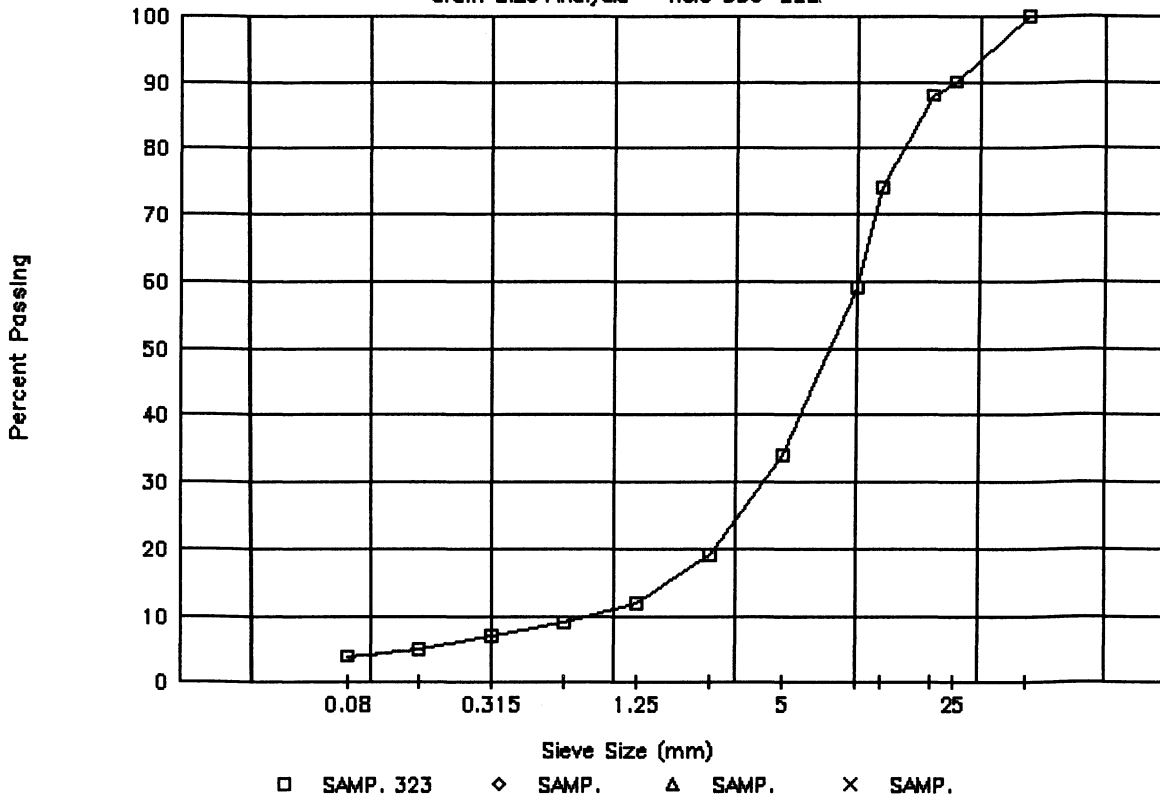
Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 330-22B



Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 330-22B



PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 330-230
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-003
 HOLE LOCATION: 1889+100 O/S 25M LT
 LOGGED BY: DT DATE COMPLETED: 94.09.10

FIELD NO: 329
 LAB NO: 1821
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 330
 LAB NO: 1822
 DEPTH: 2.9-3.1
 TYPE: AUGER

FIELD NO: 331
 LAB NO: 1823
 DEPTH: 4.4-4.6
 TYPE: AUGER

FIELD NO: 332
 LAB NO: 1823
 DEPTH: 5.9-6.1
 TYPE: AUGER
 NOT TESTED

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	63
20.0	55
12.5	42
10.0	36
5.0	22
2.5	13
2.0	--
1.25	9
0.840	--
0.630	6
0.420	--
0.315	5
0.160	4
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	98
20.0	91
12.5	81
10.0	71
5.0	43
2.5	24
2.0	--
1.25	14
0.840	--
0.630	9
0.420	--
0.315	7
0.160	6
0.150	--
0.080	5

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	85
12.5	66
10.0	55
5.0	32
2.5	16
2.0	--
1.25	9
0.840	--
0.630	6
0.420	--
0.315	5
0.160	4
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%): 4

M.C. (%): 3

M.C. (%): 3

M.C. (%): 3

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: --

% GRAVEL: 78
 % SAND: 19
 % FINES: 3

% GRAVEL: 57
 % SAND: 38
 % FINES: 5

% GRAVEL: 68
 % SAND: 29
 % FINES: 3

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 330-230
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-003
 HOLE LOCATION: 1889+100 O/S 25M LT
 LOGGED BY: DT DATE COMPLETED: 94.09.10

FIELD NO: 333
 LAB NO: 1825
 DEPTH: 8.8-9.0
 TYPE: AUGER
 NOT TESTED

SIEVE SIZE	PERCENT PASSING
100.0	---
80.0	---
50.0	---
31.5	---
25.0	---
20.0	---
12.5	---
10.0	---
5.0	---
2.5	---
2.0	---
1.25	---
0.840	---
0.630	---
0.420	---
0.315	---
0.160	---
0.150	---
0.080	---

M.C. (%) : 4

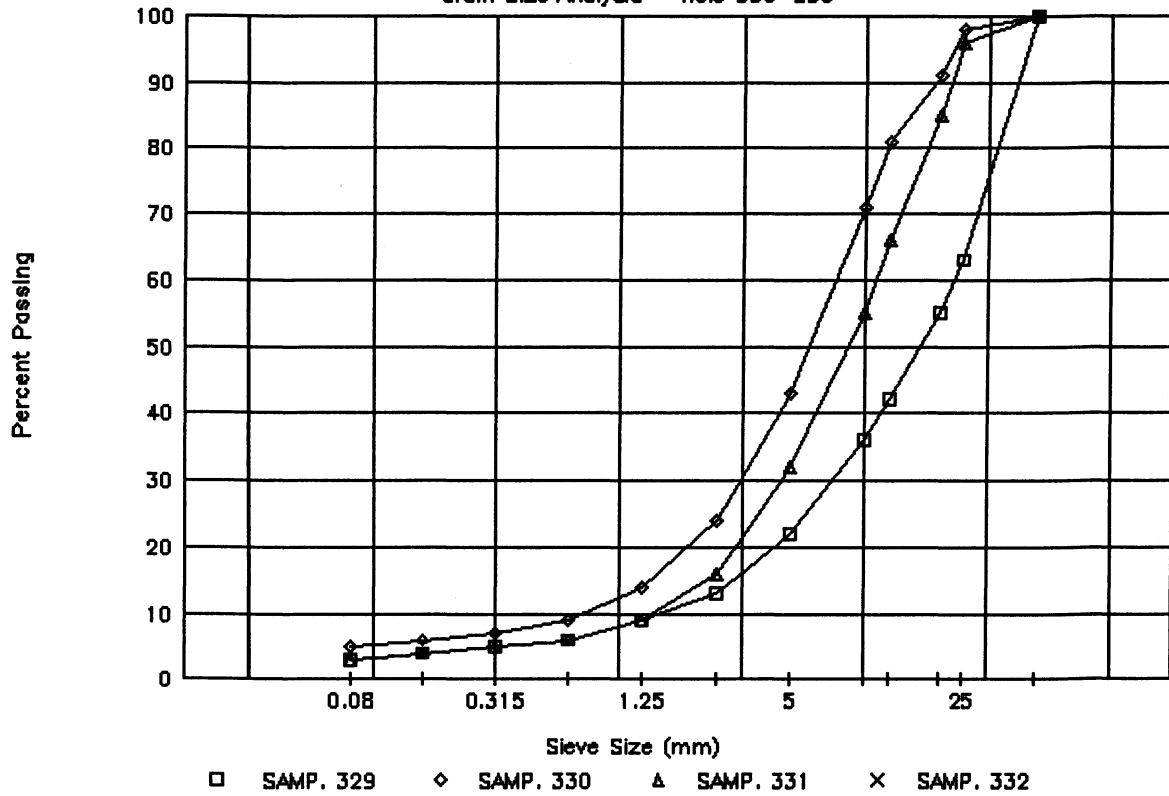
LIMITS
 LIQUID: ---
 PLASTIC: ---
 P.I.: ---

% GRAVEL: ---
 % SAND: ---
 % FINES: ---

CLASSIFICATION:

Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 330-230



PROJECT NUMBER: 092-202101-0312 HOLE NUMBER: 331-236
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-002
 HOLE LOCATION: 1890+225 O/S 17M LT
 LOGGED BY: DT DATE COMPLETED: 94.09.10

FIELD NO: 348
 LAB NO: 1840
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 349
 LAB NO: 1841
 DEPTH: 2.9-3.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	91
12.5	65
10.0	51
5.0	24
2.5	14
2.0	--
1.25	9
0.840	--
0.630	7
0.420	--
0.315	6
0.160	5
0.150	--
0.080	4

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	77
20.0	66
12.5	51
10.0	44
5.0	27
2.5	17
2.0	--
1.25	12
0.840	--
0.630	10
0.420	--
0.315	8
0.160	6
0.150	--
0.080	5

M.C. (%) : 4

M.C. (%) : 5

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 76
 % SAND: 21
 % FINES: 4

% GRAVEL: 73
 % SAND: 21
 % FINES: 5

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 331-237
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-003
 HOLE LOCATION: 1890+300 O/S 16M LT
 LOGGED BY: DT DATE COMPLETED: 94.09.10

FIELD NO: 350
 LAB NO: 1842
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 351
 LAB NO: 1843
 DEPTH: 2.9-3.1
 TYPE: AUGER
 NOT TESTED

FIELD NO: 352
 LAB NO: 1844
 DEPTH: 4.4-4.6
 TYPE: AUGER

FIELD NO: 353
 LAB NO: 1845
 DEPTH: 5.9-6.1
 TYPE: AUGER
 NOT TESTED

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	83
12.5	69
10.0	58
5.0	31
2.5	17
2.0	--
1.25	11
0.840	--
0.630	9
0.420	--
0.315	8
0.160	6
0.150	--
0.080	5

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	71
20.0	56
12.5	40
10.0	33
5.0	18
2.5	11
2.0	--
1.25	7
0.840	--
0.630	6
0.420	--
0.315	5
0.160	4
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%) : 5

M.C. (%) : 3

M.C. (%) : 3

M.C. (%) : 3

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: --

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: --

% GRAVEL: 69
 % SAND: 26
 % FINES: 5

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: 82
 % SAND: 15
 % FINES: 3

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

CLASSIFICATION:

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0312 HOLE NUMBER: 331-238
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-002
 HOLE LOCATION: 1890+325 O/S 125M LT
 LOGGED BY: DT DATE COMPLETED: 94.09.10

FIELD NO: 354
 LAB NO: 1846
 DEPTH: 1.3-1.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	80
20.0	69
12.5	55
10.0	50
5.0	35
2.5	27
2.0	--
1.25	22
0.840	--
0.630	19
0.420	--
0.315	16
0.160	15
0.150	--
0.080	13

M.C. (%): 13

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 65
 % SAND: 21
 % FINES: 13

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0312 HOLE NUMBER: 331-240
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-002
 HOLE LOCATION: 1890+375 O/S 20M LT
 LOGGED BY: DT DATE COMPLETED: 94.09.10

FIELD NO: 360
 LAB NO: 1852
 DEPTH: 8.8-9.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	82
20.0	78
12.5	67
10.0	63
5.0	48
2.5	31
2.0	--
1.25	20
0.840	--
0.630	14
0.420	--
0.315	10
0.160	8
0.150	--
0.080	6

M.C. (%) : 5

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 52
 % SAND: 41
 % FINES: 6

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 331-241
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-003
 HOLE LOCATION: 1890+450 O/S 20M LT
 LOGGED BY: DT DATE COMPLETED: 94.09.12

FIELD NO: 361
 LAB NO: 1853
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 362
 LAB NO: 1854
 DEPTH: 2.9-3.1
 TYPE: AUGER
 NOT TESTED

FIELD NO: 363
 LAB NO: 1855
 DEPTH: 4.4-4.6
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	80
20.0	70
12.5	57
10.0	50
5.0	31
2.5	17
2.0	--
1.25	10
0.840	--
0.630	7
0.420	--
0.315	5
0.160	4
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	86
12.5	71
10.0	58
5.0	33
2.5	18
2.0	--
1.25	11
0.840	--
0.630	8
0.420	--
0.315	6
0.160	5
0.150	--
0.080	4

M.C. (%): 5

M.C. (%): 3

M.C. (%): 4

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: --

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 69
 % SAND: 28
 % FINES: 3

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: 67
 % SAND: 30
 % FINES: 4

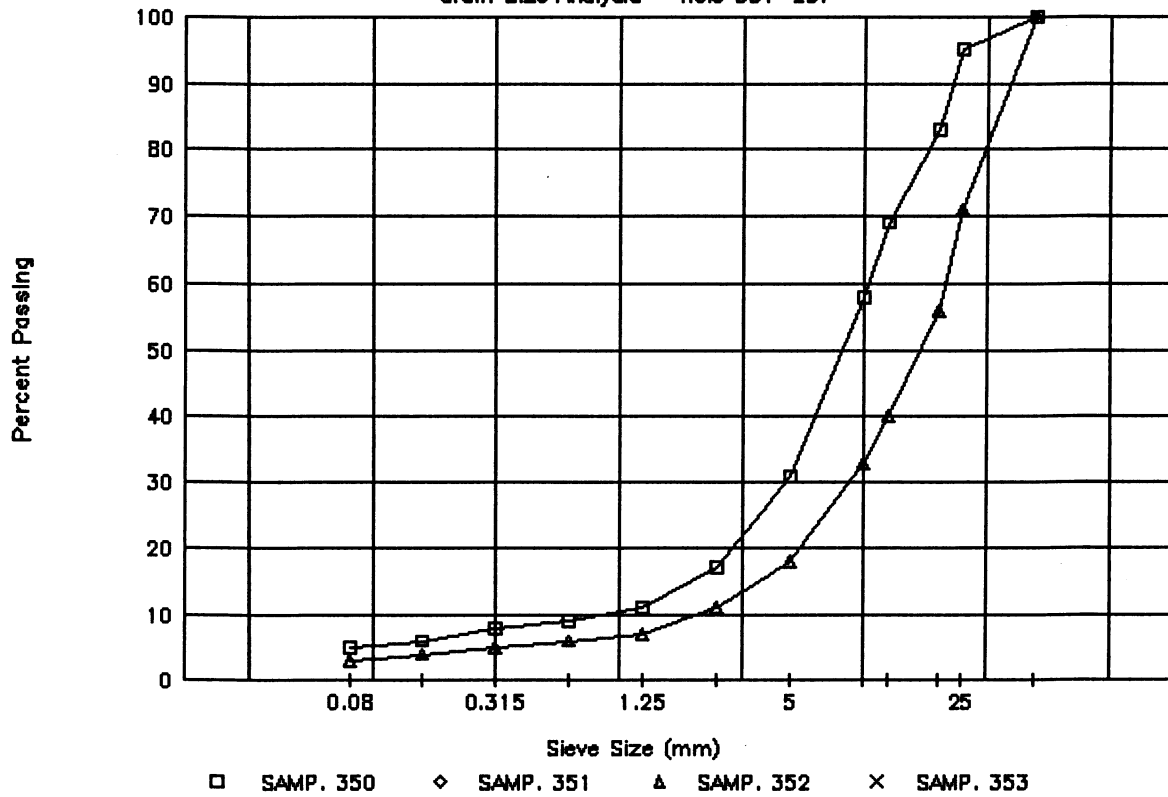
CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

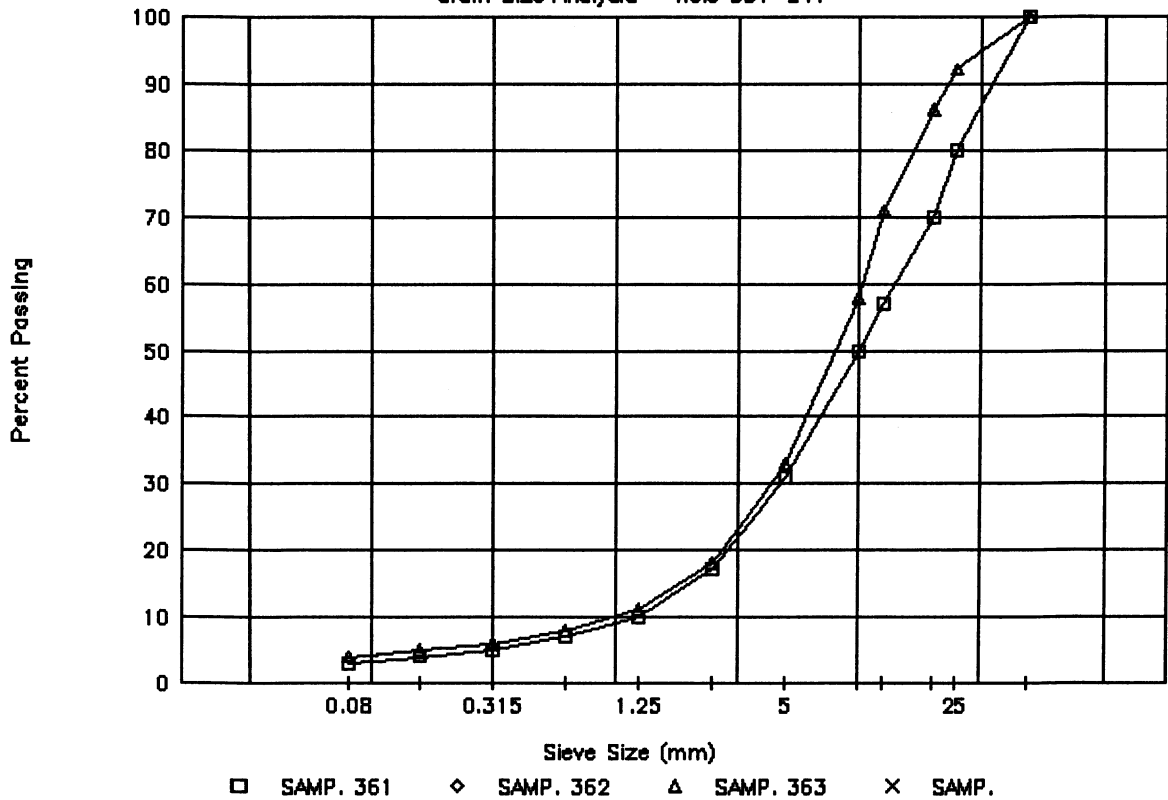
Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 331-237



Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 331-241



PROJECT NUMBER: 092-202101-0312 HOLE NUMBER: 331-242
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-002
 HOLE LOCATION: 1870+950 O/S 20M LT
 LOGGED BY: DT DATE COMPLETED: 94.09.12

FIELD NO: 364
 LAB NO: 1856
 DEPTH: 2.4-3.1
 TYPE: AUGER

FIELD NO: 365
 LAB NO: 1857
 DEPTH: 4.4-4.6
 TYPE: AUGER
 NOT TESTED

FIELD NO: 366
 LAB NO: 1858
 DEPTH: 5.9-6.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	82
12.5	66
10.0	59
5.0	38
2.5	23
2.0	--
1.25	13
0.840	--
0.630	8
0.420	--
0.315	6
0.160	5
0.150	--
0.080	4

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	81
12.5	68
10.0	63
5.0	43
2.5	28
2.0	--
1.25	18
0.840	--
0.630	13
0.420	--
0.315	10
0.160	8
0.150	--
0.080	7

M.C. (%) : 5

M.C. (%) : 6

M.C. (%) : 5

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: --

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 62
 % SAND: 34
 % FINES: 4

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: 57
 % SAND: 36
 % FINES: 7

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

PROJECT NUMBER: 092-202101-0312 HOLE NUMBER: 331-243
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-002
 HOLE LOCATION: 1891+025 O/S 20M LT
 LOGGED BY: DT DATE COMPLETED: 94.09.12

FIELD NO: 367
 LAB NO: 1859
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 368.00
 LAB NO: 1860
 DEPTH: 2.8-3.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	82
20.0	68
12.5	44
10.0	36
5.0	19
2.5	11
2.0	--
1.25	7
0.840	--
0.630	5
0.420	--
0.315	4
0.160	4
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	77
20.0	67
12.5	49
10.0	42
5.0	25
2.5	15
2.0	--
1.25	9
0.840	--
0.630	6
0.420	--
0.315	4
0.160	3
0.150	--
0.080	3

M.C. (%): 3

M.C. (%): 3.00

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS

LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 81
 % SAND: 16
 % FINES: 3

% GRAVEL: 75.00
 % SAND: 23.00
 % FINES: 3.00

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 331-244
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-003
 HOLE LOCATION: 1891+125 O/S 15M LT
 LOGGED BY: DT DATE COMPLETED: 94.09.12

FIELD NO: 369
 LAB NO: 1861
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 370
 LAB NO: 1862
 DEPTH: 2.9-3.1
 TYPE: AUGER

FIELD NO: 371
 LAB NO: 1863
 DEPTH: 4.4-4.6
 TYPE: AUGER
 NOT TESTED

FIELD NO: 372
 LAB NO: 1864
 DEPTH: 5.9-6.1
 TYPE: AUGER
 NOT TESTED

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	75
20.0	61
12.5	47
10.0	40
5.0	30
2.5	23
2.0	--
1.25	18
0.840	--
0.630	15
0.420	--
0.315	13
0.160	11
0.150	--
0.080	9

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	74
20.0	64
12.5	44
10.0	36
5.0	20
2.5	13
2.0	--
1.25	10
0.840	--
0.630	8
0.420	--
0.315	7
0.160	6
0.150	--
0.080	5

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%) : 5

M.C. (%) : 3

M.C. (%) : 3

M.C. (%) : 2

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: --

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: --

% GRAVEL: 70
 % SAND: 21
 % FINES: 9

% GRAVEL: 80
 % SAND: 15
 % FINES: 5

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

CLASSIFICATION:

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 331-246
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-003
 HOLE LOCATION: 1891+300 O/S 20M LT
 LOGGED BY: DT DATE COMPLETED: 94.09.12

FIELD NO: 378
 LAB NO: 1870
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 379
 LAB NO: 1871
 DEPTH: 2.9-3.1
 TYPE: AUGER
 NOT TESTED

FIELD NO: 380
 LAB NO: 1872
 DEPTH: 4.4-4.6
 TYPE: AUGER

FIELD NO: 381
 LAB NO: 1872
 DEPTH: 5.9-6.1
 TYPE: AUGER
 NOT TESTED

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	78
20.0	72
12.5	63
10.0	57
5.0	41
2.5	28
2.0	--
1.25	20
0.840	--
0.630	15
0.420	--
0.315	12
0.160	10
0.150	--
0.080	8

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	81
12.5	67
10.0	61
5.0	43
2.5	26
2.0	--
1.25	14
0.840	--
0.630	10
0.420	--
0.315	7
0.160	5
0.150	--
0.080	4

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%) : 5

M.C. (%) : 4

M.C. (%) : 4

M.C. (%) : 5

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: --

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: --

% GRAVEL: 59
 % SAND: 33
 % FINES: 8

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: 57
 % SAND: 38
 % FINES: 4

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SILT
 & SAND (GP-GM)

CLASSIFICATION:

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 331-246
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-003
 HOLE LOCATION: 1891+300 O/S 20M LT
 LOGGED BY: DT DATE COMPLETED: 94.09.12

FIELD NO: 382
 LAB NO: 1874
 DEPTH: 8.8-9.0
 TYPE: AUGER
 NOT TESTED

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%) : 6

LIMITS

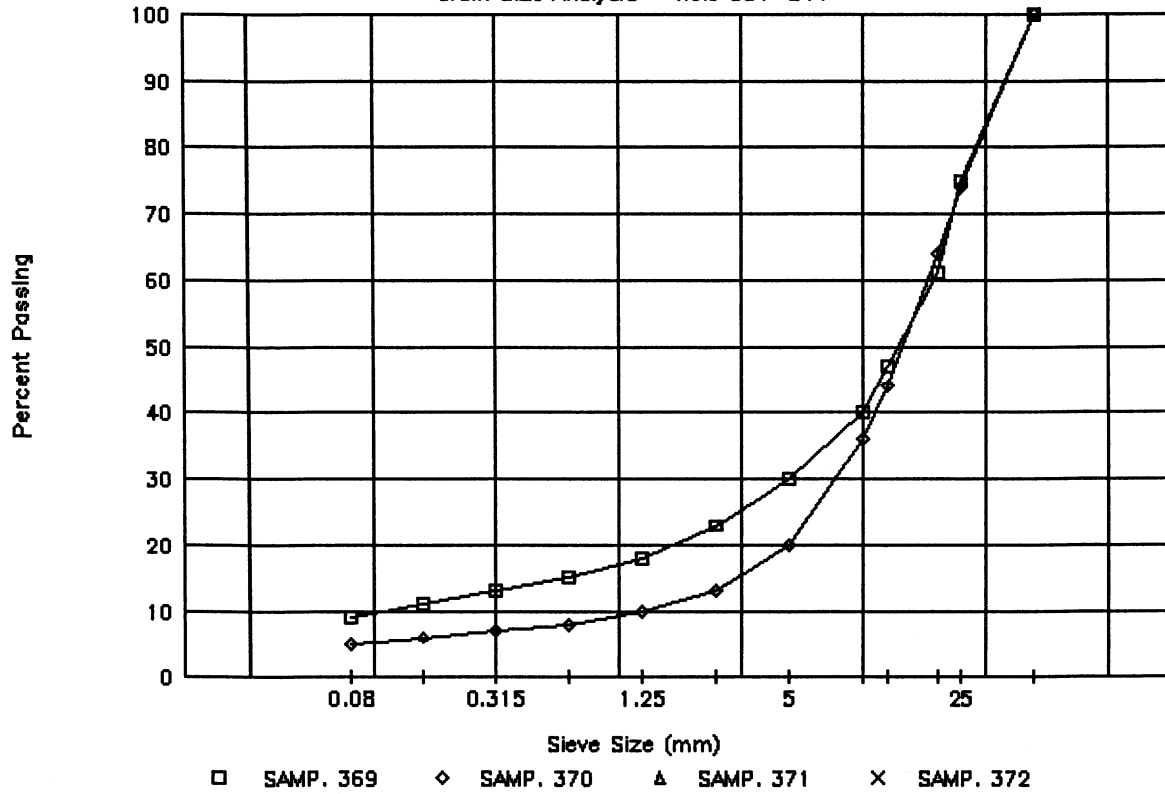
LIQUID: --
 PLASTIC: --
 P.I.: --

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:

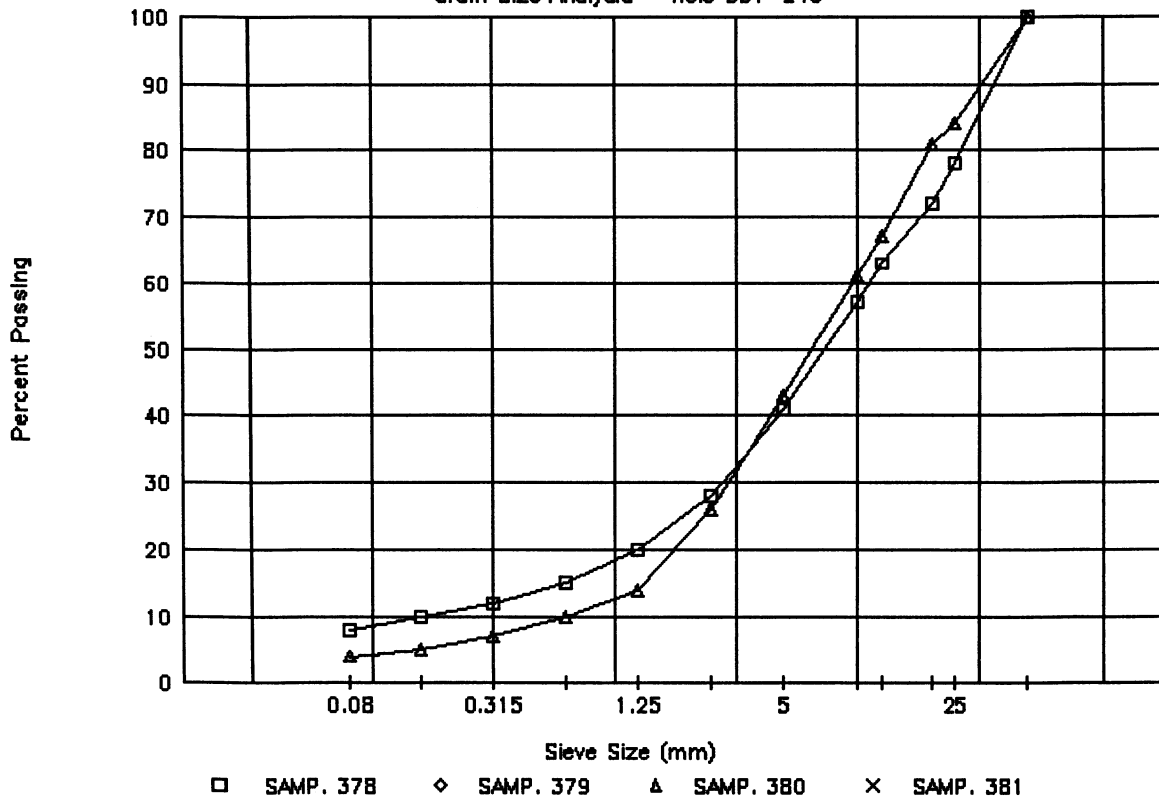
Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 331-244



Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 331-246



PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 331-248
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 16
 DRILL UNIT: 36-003
 HOLE LOCATION: 1891+450 O/S 20M LT
 LOGGED BY: DT DATE COMPLETED: 94.09.12

FIELD NO: 388
 LAB NO: 1880
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 389
 LAB NO: 1881
 DEPTH: 2.9-3.1
 TYPE: AUGER
 NOT TESTED

FIELD NO: 390
 LAB NO: 1882
 DEPTH: 4.4-4.6
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	80
12.5	67
10.0	61
5.0	38
2.5	21
2.0	--
1.25	13
0.840	--
0.630	10
0.420	--
0.315	8
0.160	6
0.150	--
0.080	5

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	85
20.0	77
12.5	63
10.0	49
5.0	24
2.5	10
2.0	--
1.25	5
0.840	--
0.630	4
0.420	--
0.315	3
0.160	2
0.150	--
0.080	2

M.C. (%) : 3

M.C. (%) : 4

M.C. (%) : 4

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: --

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 62
 % SAND: 33
 % FINES: 5

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: 76
 % SAND: 22
 % FINES: 2

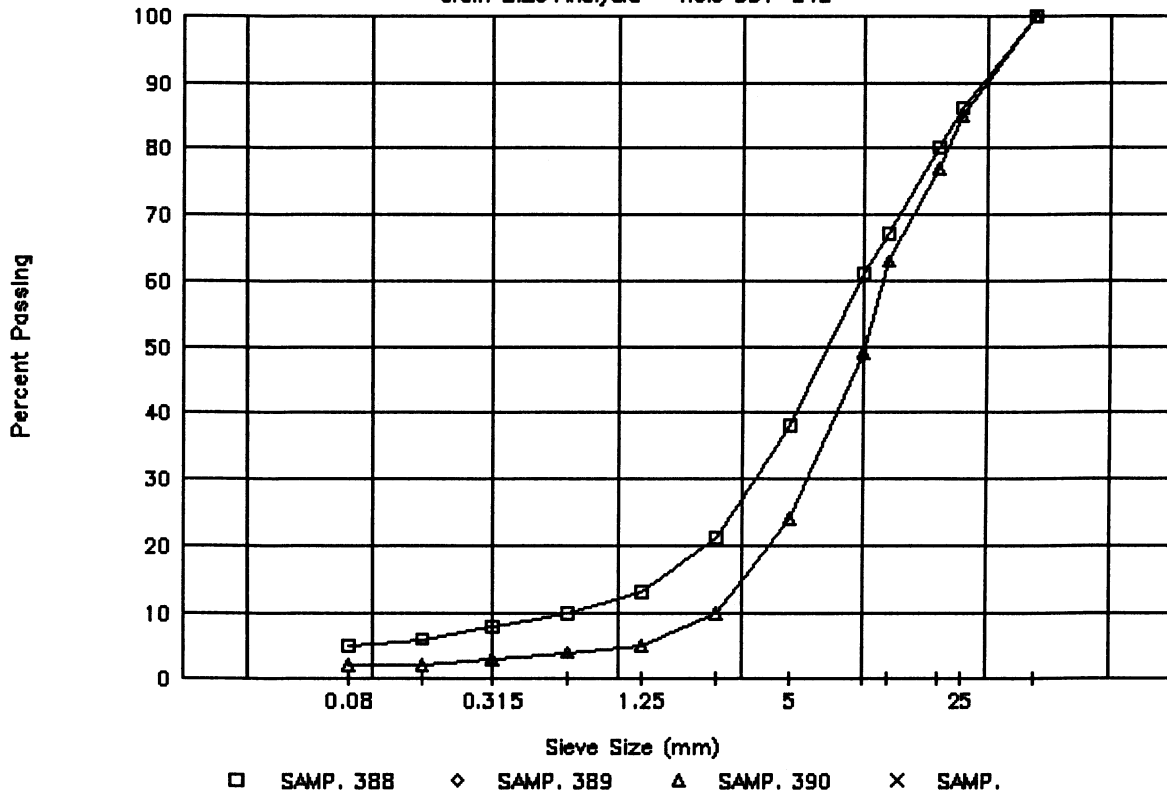
CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SILT
 & SAND (GW-GM)

CLASSIFICATION:

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 331-248



PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 341-101
 CLIENT: SHAKWAK
 PROJECT NAME: WHITE RIVER NORTH APPROACH
 PROJECT LOCATION: A/H KM 1880-1895 SEGMENT 16A
 DRILL UNIT: NODWELL 36-003
 HOLE LOCATION: KM 1882 + 500 9M LHS
 LOGGED BY: KJ DATE COMPLETED: 94-11-02

FIELD NO:	LAB NO:	DEPTH:	TYPE:
1	2279	1.0-1.2	AUGER
2	2280	2.8-3.0	AUGER
3	2281	4.2-4.4	AUGER
4	2282	5.8-6.0	AUGER

SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING
100.0	--	100.0	--	100.0	--	100.0	--
80.0	--	80.0	--	80.0	--	80.0	--
50.0	--	50.0	100	50.0	--	50.0	100
31.5	--	31.5	--	31.5	--	31.5	--
25.0	100	25.0	89	25.0	--	25.0	95
20.0	91	20.0	88	20.0	100	20.0	95
12.5	79	12.5	76	12.5	94	12.5	89
10.0	73	10.0	73	10.0	88	10.0	86
5.0	62	5.0	63	5.0	73	5.0	73
2.5	52	2.5	55	2.5	60	2.5	62
2.0	--	2.0	--	2.0	--	2.0	--
1.25	45	1.25	49	1.25	46	1.25	52
0.840	--	0.840	--	0.840	--	0.840	--
0.630	38	0.630	43	0.630	33	0.630	43
0.420	--	0.420	--	0.420	--	0.420	--
0.315	30	0.315	38	0.315	21	0.315	33
0.160	24	0.160	33	0.160	16	0.160	26
0.150	--	0.150	--	0.150	--	0.150	--
0.080	19	0.080	28	0.080	12	0.080	21

M.C. (%): 19 M.C. (%): 12 M.C. (%): 8 M.C. (%): 14

LIMITS		LIMITS		LIMITS		LIMITS	
LIQUID:	--	LIQUID:	--	LIQUID:	--	LIQUID:	--
PLASTIC:	--	PLASTIC:	--	PLASTIC:	--	PLASTIC:	--
P.I.:	N.P.	P.I.:	N.P.	P.I.:	N.P.	P.I.:	N.P.

% GRAVEL:	38	% GRAVEL:	37	% GRAVEL:	27	% GRAVEL:	27
% SAND:	44	% SAND:	35	% SAND:	61	% SAND:	53
% FINES:	19	% FINES:	28	% FINES:	12	% FINES:	21

CLASSIFICATION:	SILTY SAND WITH GRAVEL (SM)	CLASSIFICATION:	SILTY GRAVEL WITH SAND (GM)	CLASSIFICATION:	POORLY GRADED SAND WITH SILT & GRAVEL (SP-SM)	CLASSIFICATION:	SILTY SAND WITH GRAVEL (SM)
-----------------	-----------------------------	-----------------	-----------------------------	-----------------	-----------------------------------------------	-----------------	-----------------------------

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 341-101
 CLIENT: SHAKWAK
 PROJECT NAME: WHITE RIVER NORTH APPROACH
 PROJECT LOCATION: A/H KM 1880-1895 SEGMENT 16A
 DRILL UNIT: NODWELL 36-003
 HOLE LOCATION: KM 1882 + 500 9M LHS
 LOGGED BY: KJ DATE COMPLETED: 94-11-02

FIELD NO: 5
 LAB NO: 2283
 DEPTH: 7.3-7.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	96
10.0	95
5.0	89
2.5	81
2.0	--
1.25	74
0.840	--
0.630	67
0.420	--
0.315	57
0.160	36
0.150	--
0.080	21

M.C.(%) : 18

LIMITS

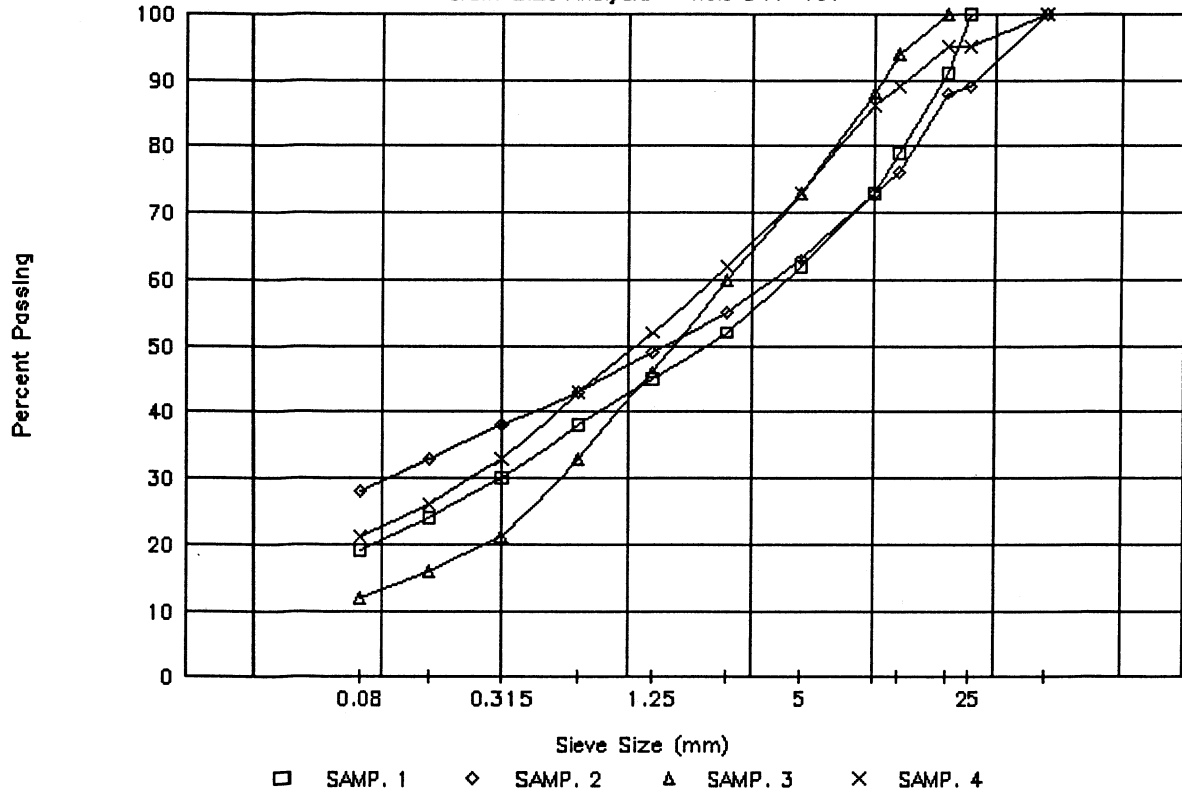
LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 11
 % SAND: 67
 % FINES: 21

CLASSIFICATION:
 SILTY SAND (SM)

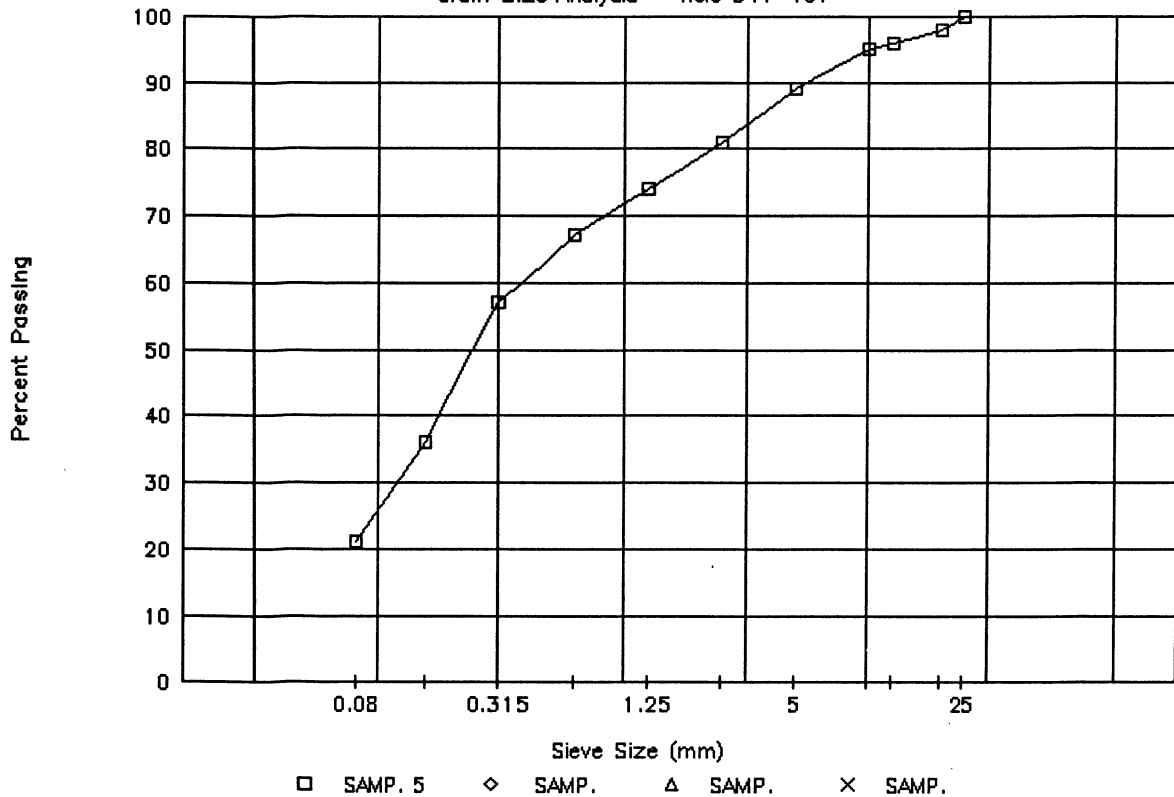
Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 341-101



Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 341-101



PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 341-102
 CLIENT: SHAKWAK
 PROJECT NAME: WHITE RIVER NORTH APPROACH
 PROJECT LOCATION: A/H KM 1880-1895 SEGMENT 16A
 DRILL UNIT: NODWELL 36-003
 HOLE LOCATION: SEE PLAN
 LOGGED BY: KJ DATE COMPLETED: 94-11-02

FIELD NO: 6
 LAB NO: 2284
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 7
 LAB NO: 2285
 DEPTH: 2.6-2.8
 TYPE: AUGER

FIELD NO: 8
 LAB NO: 2286
 DEPTH: 4.3-4.5
 TYPE: AUGER

FIELD NO: 9
 LAB NO: 2287
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	98
10.0	97
5.0	88
2.5	79
2.0	--
1.25	71
0.840	--
0.630	65
0.420	--
0.315	59
0.160	52
0.150	--
0.080	45

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	97
10.0	94
5.0	87
2.5	79
2.0	--
1.25	73
0.840	--
0.630	68
0.420	--
0.315	61
0.160	54
0.150	--
0.080	46

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	91
10.0	86
5.0	74
2.5	64
2.0	--
1.25	56
0.840	--
0.630	50
0.420	--
0.315	46
0.160	40
0.150	--
0.080	33

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	92
10.0	88
5.0	71
2.5	59
2.0	--
1.25	50
0.840	--
0.630	42
0.420	--
0.315	36
0.160	31
0.150	--
0.080	26

M.C. (%): 49

M.C. (%): 32

M.C. (%): 16

M.C. (%): 16

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 12
 % SAND: 42
 % FINES: 45

% GRAVEL: 13
 % SAND: 41
 % FINES: 46

% GRAVEL: 26
 % SAND: 40
 % FINES: 33

% GRAVEL: 29
 % SAND: 45
 % FINES: 26

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 341-103
 CLIENT: SHAKWAK
 PROJECT NAME: WHITE RIVER NORTH APPROACH
 PROJECT LOCATION: A/H 1880-1895 SEGMENT 16A
 DRILL UNIT: NODWELL 36-003
 HOLE LOCATION: SEE PLAN
 LOGGED BY: KJ DATE COMPLETED: 94-11-02

FIELD NO: 10
 LAB NO: 2288
 DEPTH: 1.5-1.7
 TYPE: AUGER

FIELD NO: 11
 LAB NO: 2289
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 12
 LAB NO: 2290
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	97
10.0	94
5.0	89
2.5	83
2.0	--
1.25	78
0.840	--
0.630	72
0.420	--
0.315	65
0.160	57
0.150	--
0.080	48

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	88
20.0	80
12.5	71
10.0	65
5.0	57
2.5	48
2.0	--
1.25	42
0.840	--
0.630	36
0.420	--
0.315	30
0.160	24
0.150	--
0.080	19

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	95
5.0	85
2.5	76
2.0	--
1.25	68
0.840	--
0.630	62
0.420	--
0.315	55
0.160	48
0.150	--
0.080	39

M.C. (%): 53

M.C. (%): 12

M.C. (%): 19

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 11
 % SAND: 41
 % FINES: 48

% GRAVEL: 43
 % SAND: 38
 % FINES: 19

% GRAVEL: 15
 % SAND: 46
 % FINES: 39

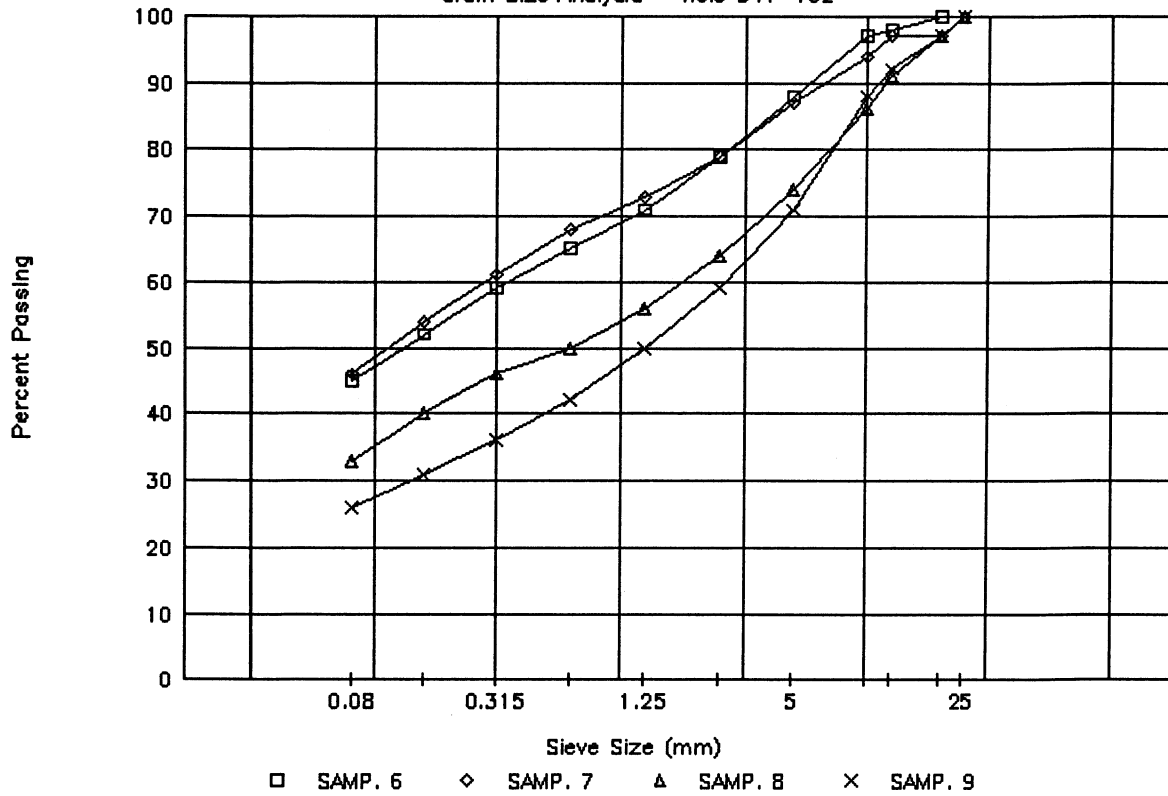
CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

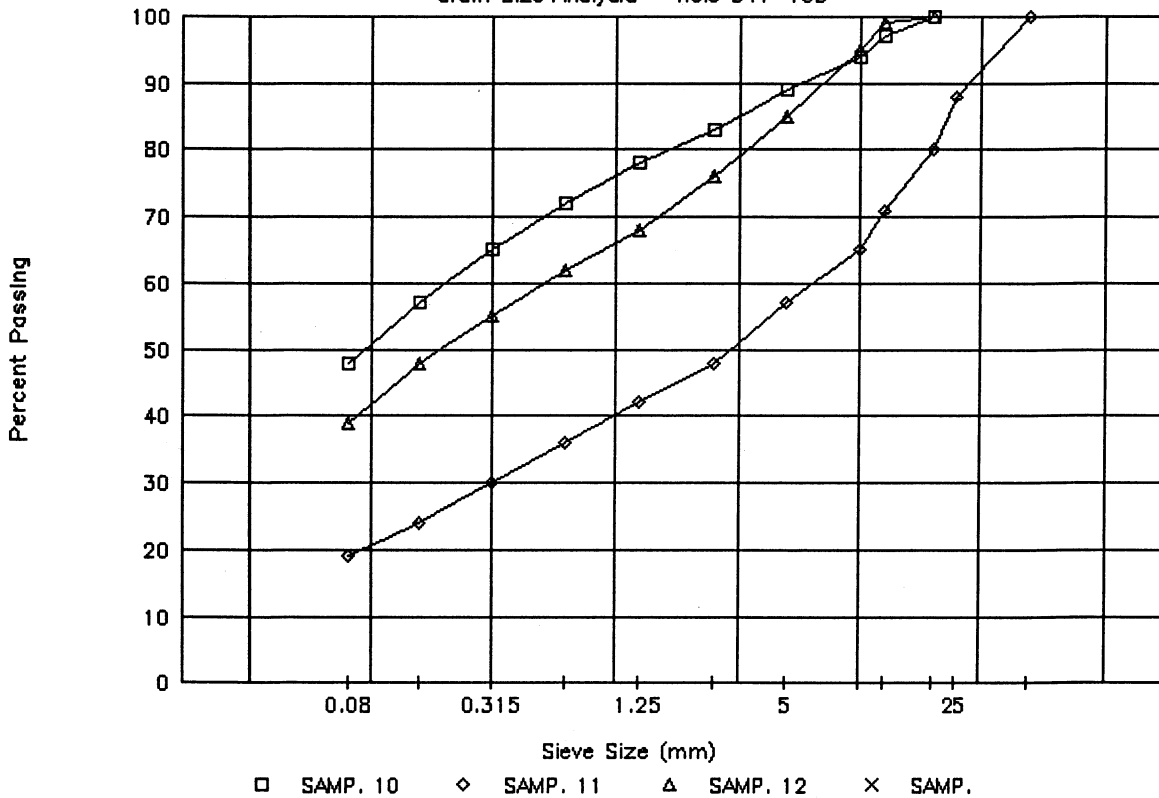
Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 341-102



Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 341-103



PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 341-104
 CLIENT: SHAKWAK
 PROJECT NAME: WHITE RIVER NORTH APPROACH
 PROJECT LOCATION: A/H 1880-1895 SEGMENT 16A
 DRILL UNIT: NODWELL 36-003
 HOLE LOCATION: SEE PLAN
 LOGGED BY: KJ DATE COMPLETED: 94-11-02

FIELD NO: 13
 LAB NO: 2291
 DEPTH: 1.2-1.4
 TYPE: AUGER

FIELD NO: 14
 LAB NO: 2292
 DEPTH: 2.2-2.4
 TYPE: AUGER

FIELD NO: 15
 LAB NO: 2293
 DEPTH: 3.0-3.2
 TYPE: AUGER

FIELD NO: 16
 LAB NO: 2294
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	97
10.0	93
5.0	92
2.5	90
2.0	--
1.25	86
0.840	--
0.630	82
0.420	--
0.315	79
0.160	76
0.150	--
0.080	71

M.C. (%) : 145

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 8
 % SAND: 21
 % FINES: 71

CLASSIFICATION:
 SILT WITH SAND
 (ML)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	93
10.0	89
5.0	79
2.5	66
2.0	--
1.25	55
0.840	--
0.630	47
0.420	--
0.315	38
0.160	30
0.150	--
0.080	24

M.C. (%) : 16

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 21
 % SAND: 56
 % FINES: 24

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	93
10.0	89
5.0	77
2.5	67
2.0	--
1.25	58
0.840	--
0.630	52
0.420	--
0.315	45
0.160	38
0.150	--
0.080	31

M.C. (%) : 16

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 23
 % SAND: 46
 % FINES: 31

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	92
10.0	89
5.0	81
2.5	73
2.0	--
1.25	67
0.840	--
0.630	62
0.420	--
0.315	57
0.160	52
0.150	--
0.080	43

M.C. (%) : 16

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 19
 % SAND: 38
 % FINES: 43

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 341-104
 CLIENT: SHAKWAK
 PROJECT NAME: WHITE RIVER NORTH APPROACH
 PROJECT LOCATION: A/H 1880-1895 SEGMENT 16A
 DRILL UNIT: NODWELL 36-003
 HOLE LOCATION: SEE PLAN
 LOGGED BY: KJ DATE COMPLETED: 94-11-02

FIELD NO: 17
 LAB NO: 2295
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	91
10.0	85
5.0	73
2.5	62
2.0	--
1.25	55
0.840	--
0.630	49
0.420	--
0.315	42
0.160	37
0.150	--
0.080	31

M.C. (%): 19

LIMITS

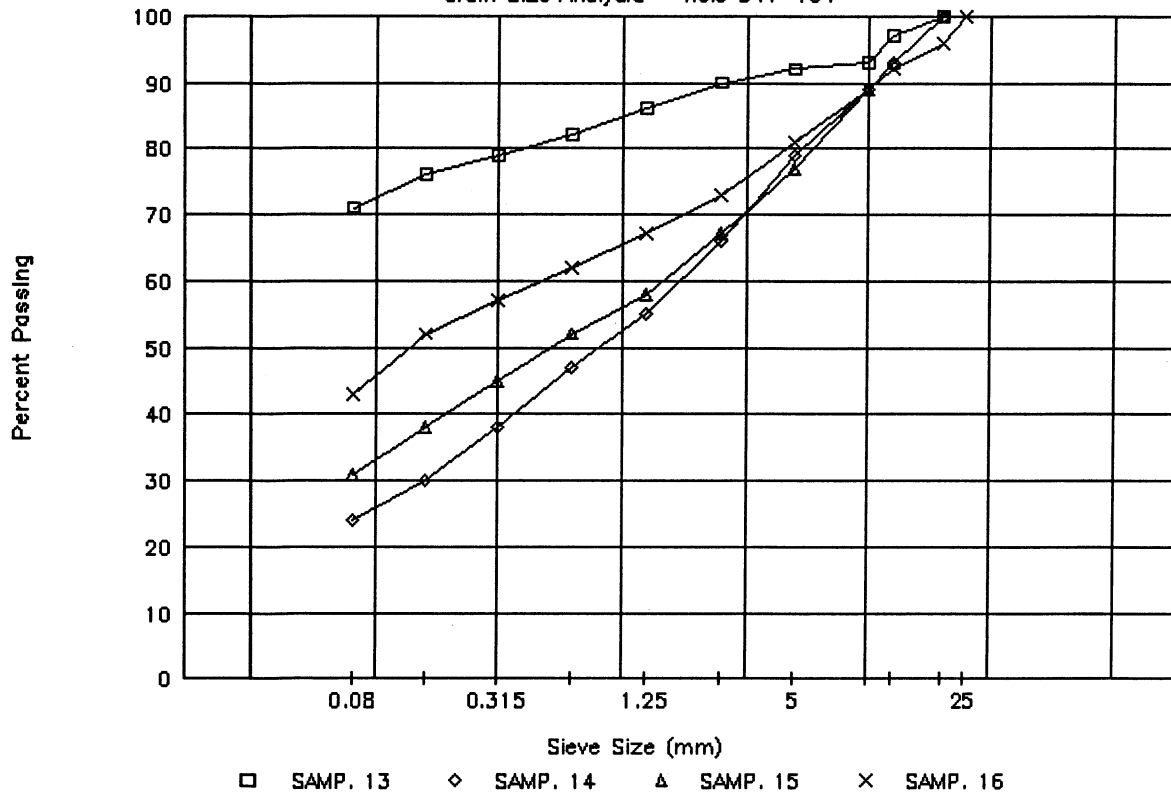
LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 27
 % SAND: 42
 % FINES: 31

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

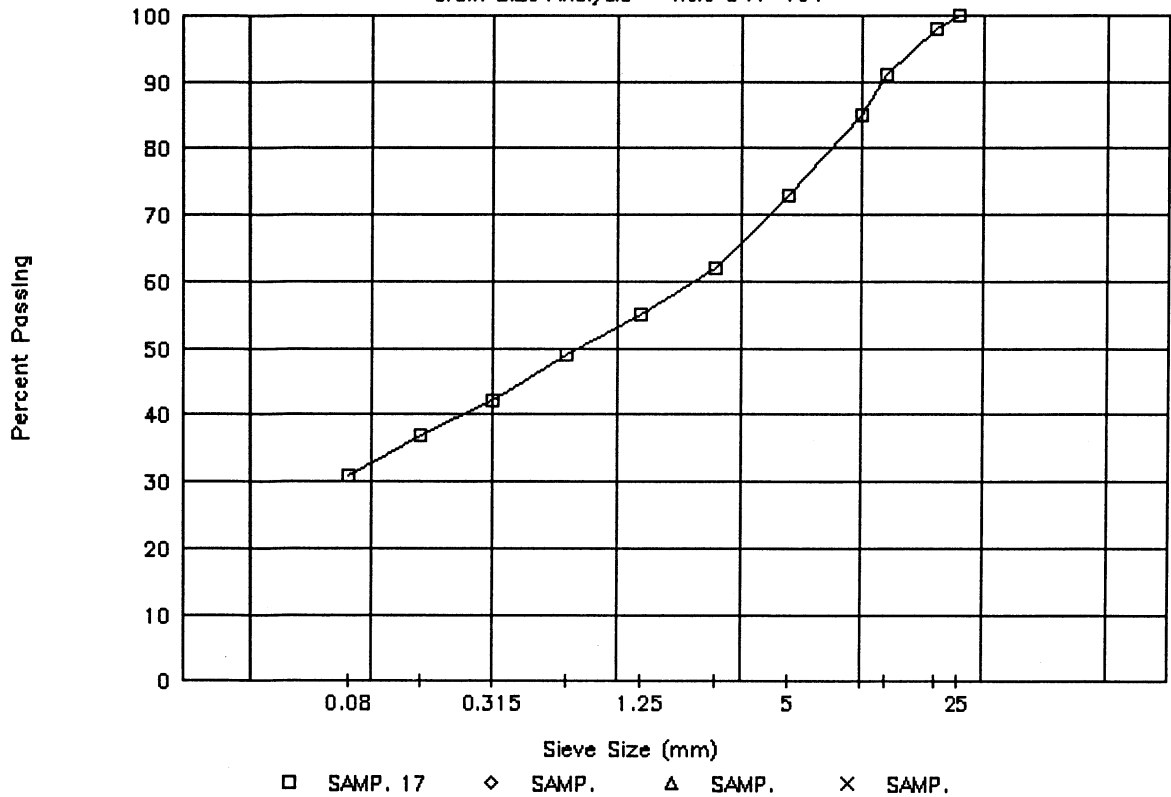
Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 341-104



Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 341-104



PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 341-105
 CLIENT: SHAKWAK
 PROJECT NAME: WHITE RIVER NORTH APPROACH
 PROJECT LOCATION: A/H 1880-1895 SEGMENT 16A
 DRILL UNIT: NODWELL 36-003
 HOLE LOCATION: SEE PLAN
 LOGGED BY: KJ DATE COMPLETED: 94-11-03

FIELD NO: 18	FIELD NO: 19	FIELD NO: 20	FIELD NO: 21
LAB NO: 2296	LAB NO: 2297	LAB NO: 2298	LAB NO: 2299
DEPTH: 1.2-1.4	DEPTH: 2.8-3.0	DEPTH: 4.2-4.4	DEPTH: 6.6-6.8
TYPE: AUGER	TYPE: AUGER	TYPE: AUGER	TYPE: AUGER

SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING
100.0	--	100.0	--	100.0	--	100.0	--
80.0	--	80.0	--	80.0	--	80.0	--
50.0	--	50.0	100	50.0	100	50.0	100
31.5	--	31.5	--	31.5	--	31.5	--
25.0	--	25.0	76	25.0	93	25.0	77
20.0	100	20.0	76	20.0	88	20.0	73
12.5	94	12.5	73	12.5	82	12.5	65
10.0	92	10.0	71	10.0	78	10.0	61
5.0	86	5.0	61	5.0	69	5.0	50
2.5	79	2.5	52	2.5	60	2.5	41
2.0	--	2.0	--	2.0	--	2.0	--
1.25	73	1.25	46	1.25	52	1.25	35
0.840	--	0.840	--	0.840	--	0.840	--
0.630	67	0.630	41	0.630	46	0.630	30
0.420	--	0.420	--	0.420	--	0.420	--
0.315	61	0.315	35	0.315	40	0.315	26
0.160	55	0.160	30	0.160	33	0.160	22
0.150	--	0.150	--	0.150	--	0.150	--
0.080	50	0.080	25	0.080	27	0.080	18

M.C. (%): 81 M.C. (%): 17 M.C. (%): 11 M.C. (%): 14

LIMITS		LIMITS		LIMITS		LIMITS	
LIQUID:	--	LIQUID:	--	LIQUID:	--	LIQUID:	--
PLASTIC:	--	PLASTIC:	--	PLASTIC:	--	PLASTIC:	--
P.I.:	N.P.	P.I.:	N.P.	P.I.:	N.P.	P.I.:	N.P.

% GRAVEL:	14	% GRAVEL:	39	% GRAVEL:	31	% GRAVEL:	50
% SAND:	36	% SAND:	36	% SAND:	42	% SAND:	32
% FINES:	50	% FINES:	25	% FINES:	27	% FINES:	18

CLASSIFICATION:	SANDY SILT (ML)	CLASSIFICATION:	SILTY GRAVEL WITH SAND (GM)	CLASSIFICATION:	SILTY SAND WITH GRAVEL (SM)	CLASSIFICATION:	SILTY GRAVEL WITH SAND (GM)
-----------------	-----------------	-----------------	-----------------------------	-----------------	-----------------------------	-----------------	-----------------------------

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 341-106
 CLIENT: SHAKWAK
 PROJECT NAME: WHITE RIVER NORTH APPROACH
 PROJECT LOCATION: A/H 1880-1895 SEGMENT 16A
 DRILL UNIT: NODWELL 36-003
 HOLE LOCATION: SEE PLAN
 LOGGED BY: KJ DATE COMPLETED: 94-11-03

FIELD NO: 22
 LAB NO: 2300
 DEPTH: 1.2-1.4
 TYPE: AUGER

FIELD NO: 23
 LAB NO: 2301
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 24
 LAB NO: 2302
 DEPTH: 9.0-9.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	92
10.0	88
5.0	77
2.5	66
2.0	--
1.25	57
0.840	--
0.630	47
0.420	--
0.315	33
0.160	21
0.150	--
0.080	16

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	93
12.5	81
10.0	77
5.0	65
2.5	55
2.0	--
1.25	47
0.840	--
0.630	38
0.420	--
0.315	26
0.160	16
0.150	--
0.080	11

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	91
10.0	89
5.0	77
2.5	67
2.0	--
1.25	59
0.840	--
0.630	52
0.420	--
0.315	45
0.160	38
0.150	--
0.080	30

M.C. (%): 13

M.C. (%): 12

M.C. (%): 12

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

LIMITS
 LIQUID: --
 PLASTIC: --
 P.I.: N.P.

% GRAVEL: 23
 % SAND: 61
 % FINES: 16

% GRAVEL: 35
 % SAND: 54
 % FINES: 11

% GRAVEL: 23
 % SAND: 46
 % FINES: 30

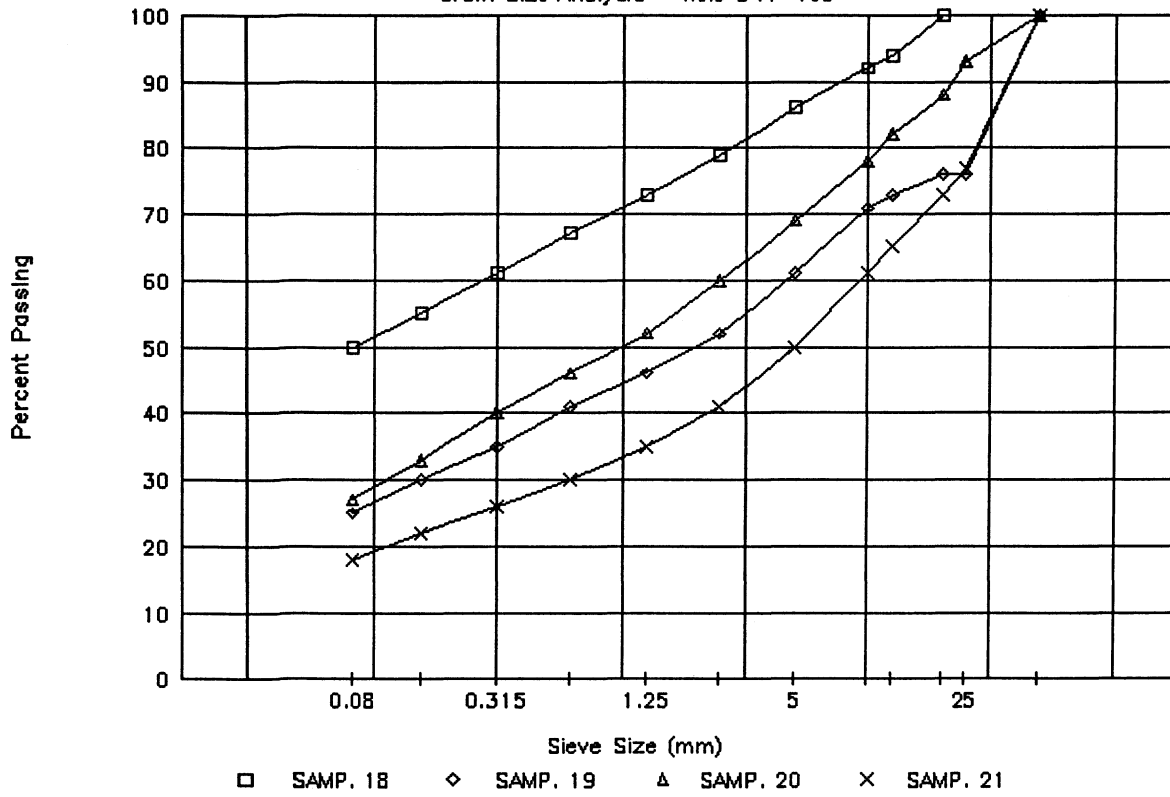
CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 POORLY GRADED
 SAND WITH SILT &
 GRAVEL (SP-SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 341-105



Y.T.G. TRANSPORTATION ENGINEERING

Grain Size Analysis - Hole 341-106

