

GEOTECHNICAL INVESTIGATIONS

Highway Construction
Km 1775.6 to 1786.8 Alaska Highway #1
Yukon, 2002-2003
Volume 2 of 4

Yukon

Community and Transportation Services
Transportation Engineering Branch

Geotechnical Services

BOX 2703, WHITEHORSE, YUKON
PHONE 867-667-8820 FAX 867-393-6447

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GR-01-084

HIGHWAY CONSTRUCTION

GEOTECHNICAL INVESTIGATION

Km 1775.6 to 1786.8
YUKON 2002-2003

ALASKA HIGHWAY #1

Highway Construction
Km 1775.6 to 1786.8
Alaska Highway #1
Yukon 2002-2003
Volume 2 of 4

This Data Package prepared for project viewing:

January, 2002

Transportation Engineering Branch
Geotechnical Services
461 Range Road
Whitehorse, Yukon

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Volume 1 of 4

INTRODUCTION

Investigation notes, classification methods and legends.

CENTRELINE TESTING ALASKA HIGHWAY

Subsurface Exploration and Testing Report Sheets are provided.
The reports for the centreline holes are arranged according to project location, starting at Km 1775+500 and increasing to Km 1786+500.

2001	TEST HOLES 117 to 121	shown with prefix 600-
	TEST HOLES 122 to 146	shown with prefix 601-
	TEST HOLES 147 to 159	shown with prefix 602-
	TEST HOLES 160 to 182	shown with prefix 604-
	TEST HOLES 183 to 207	shown with prefix 605-
	TEST HOLES 208 to 228	shown with prefix 606-
	TEST HOLES 242 to 265	shown with prefix 607-
	TEST HOLES 226 to 286	shown with prefix 608-
	TEST HOLES 1687 to 1698	shown with prefix 629-

NOTE:

Centreline Test Hole locations indicated on the Subsurface Exploration and Testing Report Sheets are approximate. Actual Test Hole locations, located by GPS survey or field survey, are as shown on project plans.

CONTENTS (continued)**Volume 2 of 4****CENTRELINE TESTING ALASKA HIGHWAY**

Laboratory Testing Result Sheets are provided.

The reports for the centreline holes are arranged according to test hole number, starting at 600-117 and increasing to 629-1698.

2001	TEST HOLES 117 to 121	shown with prefix 600-
	TEST HOLES 122 to 146	shown with prefix 601-
	TEST HOLES 147 to 159	shown with prefix 602-
	TEST HOLES 160 to 182	shown with prefix 604-
	TEST HOLES 183 to 207	shown with prefix 605-
	TEST HOLES 208 to 228	shown with prefix 606-
	TEST HOLES 242 to 265	shown with prefix 607-
	TEST HOLES 226 to 286	shown with prefix 608-
	TEST HOLES 1687 to 1698	shown with prefix 629-

NOTE:

Centreline Test Hole locations indicated on the Subsurface Exploration and Testing Report Sheets are approximate. Actual Test Hole locations, located by GPS survey or field survey, are as shown on project plans.

CONTENTS (continued)

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GRANULAR SOURCE Km 1776 LHS ALASKA HIGHWAY

Location plans, photographs, and subsurface exploration and testing report sheets are provided.

Backhoe Testing

1988	TEST PITS 1 to 11	shown with prefix 033-
2001	TEST PITS 1-45	shown with prefix 610-

BORROW SOURCE Km 1777.5 RHS ALASKA HIGHWAY

Subsurface exploration and testing report sheets are provided.

Auger Testing

2001	TEST HOLES 1672 to 1679	shown with prefix 629-
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CONTENTS (continued)

Volume 4 of 4

BORROW SOURCE Km 1779.5 RHS ALASKA HIGHWAY

Subsurface exploration and testing report sheets are provided.

Auger Testing

2001	TEST HOLES 229 to 232	shown with prefix 606-
2001	TEST HOLES 233 to 241	shown with prefix 607-
2001	TEST HOLES 1680 to 1686	shown with prefix 629-

GRANULAR SOURCE Km 1786 – 4 kms LHS ALASKA HIGHWAY

Location plans, photographs, and subsurface exploration and testing report sheets are provided.

Backhoe Testing

1998	TEST PITS 203 to 226	shown with prefix 497-
2001	TEST PITS 1-26	shown with prefix 609-

HIGHWAY CONSTRUCTION

GEOTECHNICAL INVESTIGATION

Km 1775.6 to 1786.8
YUKON 2002-2003

ALASKA HIGHWAY #1

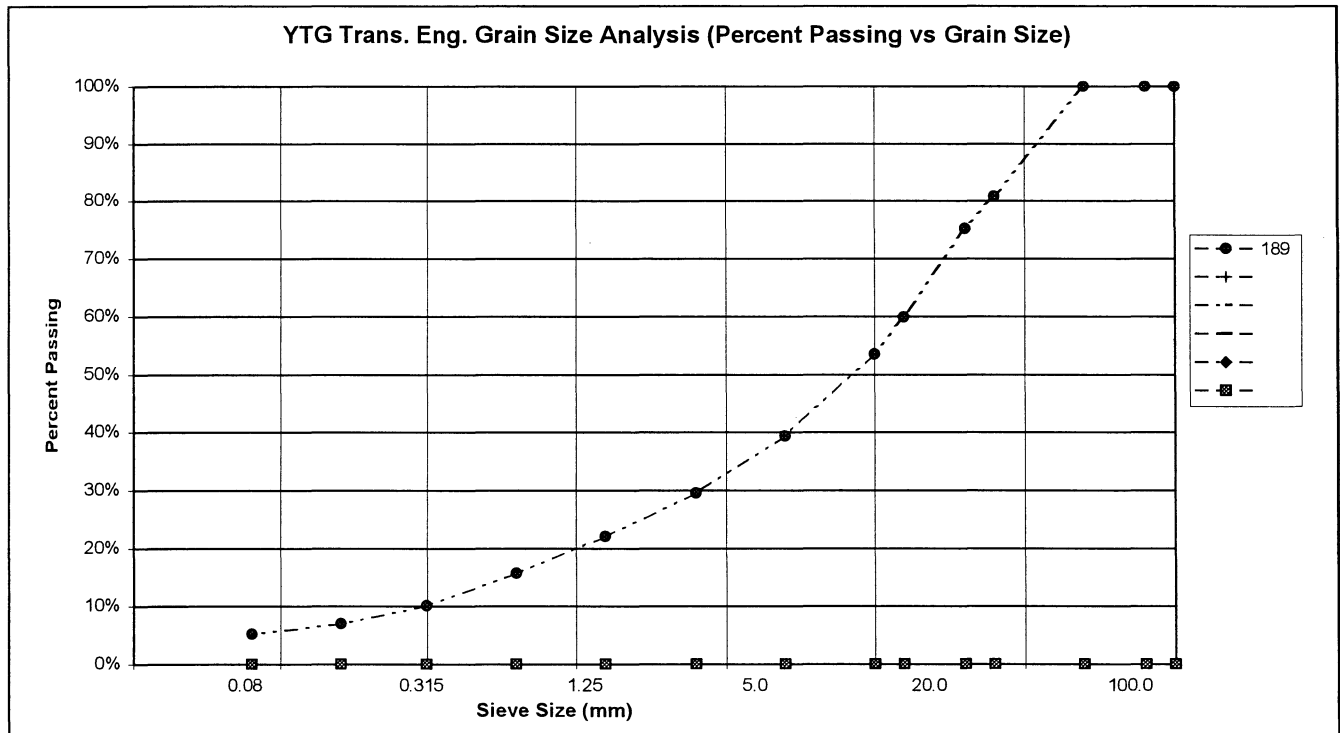
**CENTRELINE TESTING
1775+500 to 1786+500
ALASKA HIGHWAY**

PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1775+500 10M LT
 LOGGED BY: B.B.

HOLE No.: 600-117

DATE COMP: 2001/06/21

FIELD NO:	189				
LAB NO:	700				
DEPTH:	3.8-4.0				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	81%				
20.0	75%				
12.5	60%				
10.0	54%				
5.0	39%				
2.5	30%				
1.25	22%				
0.630	16%				
0.315	10%				
0.160	7%				
0.080	5%				
M.C.(%):	2%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	61				
% SAND:	34				
% FINES:	5				
CLASSIFICATION	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)				

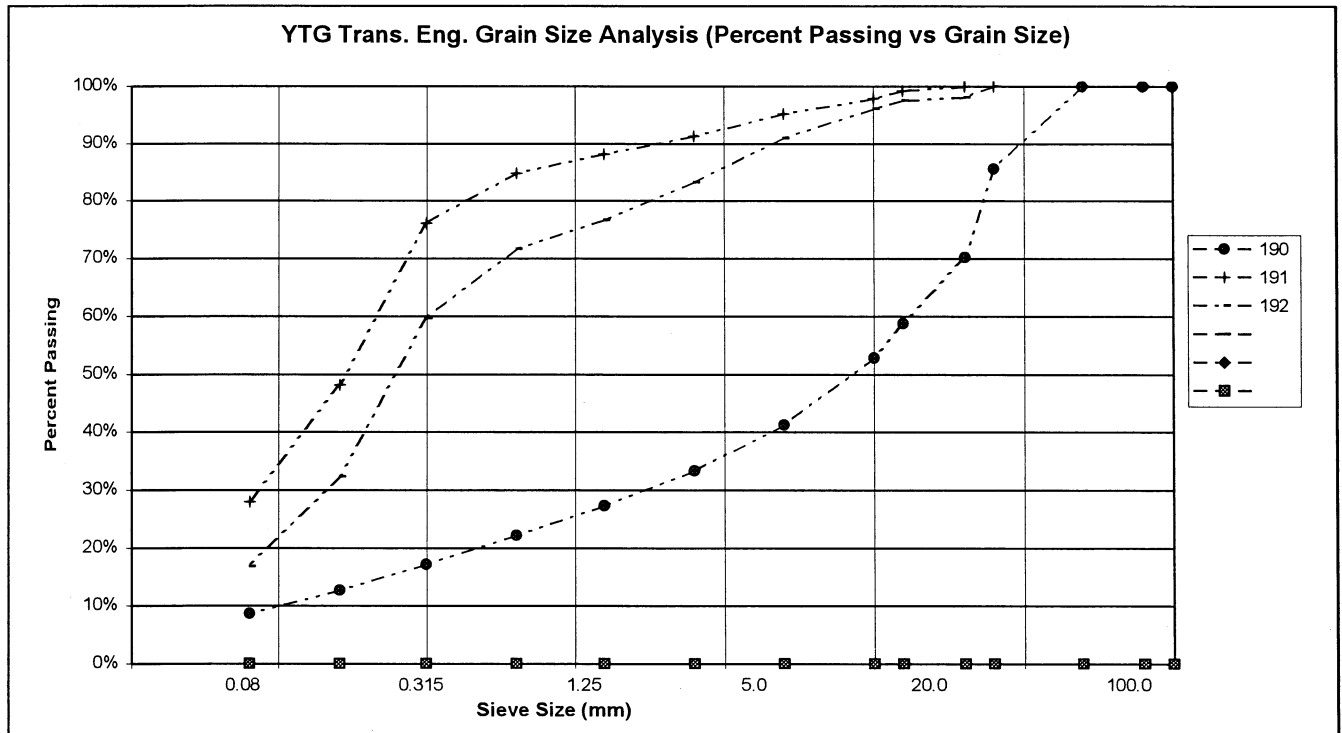


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1775+800 15M LT
 LOGGED BY: B.B.

HOLE No.: 600-118

DATE COMP: 2001/06/21

FIELD NO:	190	191	192		
LAB NO:	701	702	703		
DEPTH:	1.3-1.5	2.8-3.0	4.3-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	86%	100%	100%		
20.0	70%	100%	98%		
12.5	59%	99%	98%		
10.0	53%	98%	96%		
5.0	41%	95%	91%		
2.5	33%	91%	83%		
1.25	27%	88%	77%		
0.630	22%	85%	72%		
0.315	17%	76%	60%		
0.160	13%	48%	32%		
0.080	9%	28%	17%		
M.C.(%):	4%	11%	7%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	59	5	9		
% SAND:	33	67	74		
% FINES:	9	28	17		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY SAND (SM)	SILTY SAND (SM)		

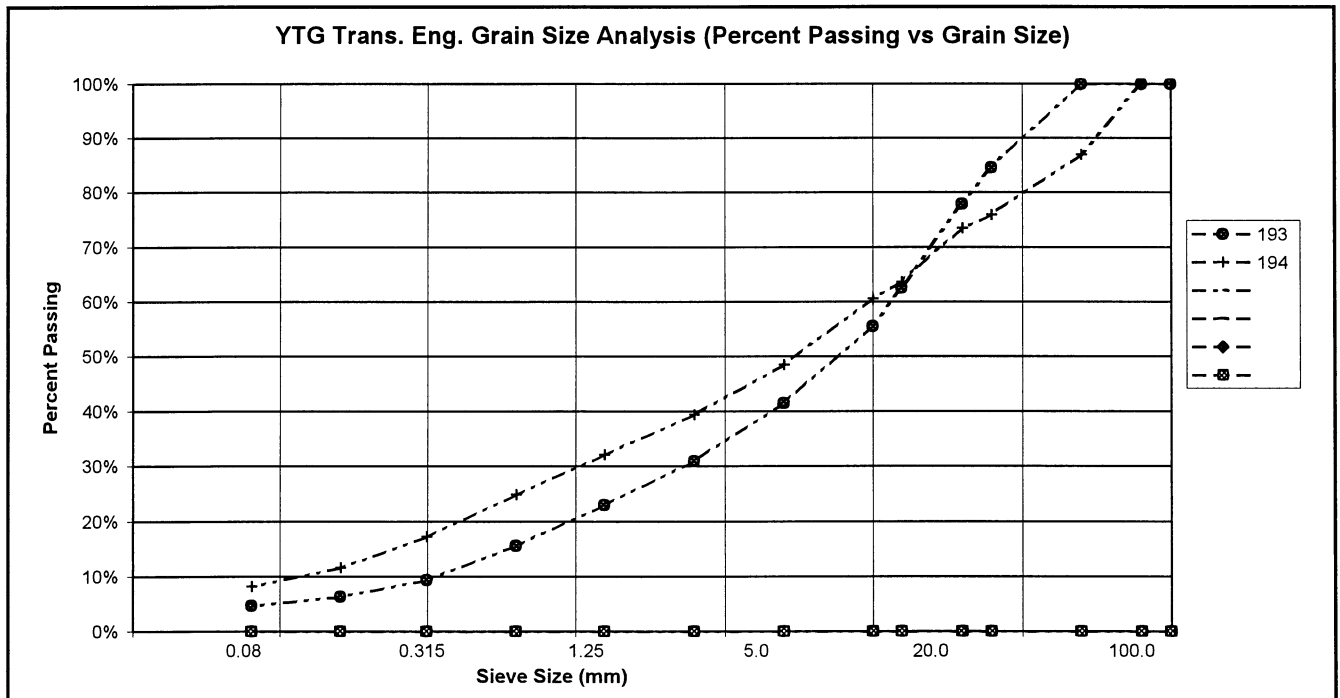


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1775+900 7M LT
 LOGGED BY: B.B.

HOLE No.: 600-119

DATE COMP: 2001/06/21

FIELD NO:	193	194			
LAB NO:	704	705			
DEPTH:	1.8-2.0	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	87%			
25.0	85%	76%			
20.0	78%	74%			
12.5	63%	64%			
10.0	56%	61%			
5.0	42%	48%			
2.5	31%	39%			
1.25	23%	32%			
0.630	16%	25%			
0.315	9%	17%			
0.160	6%	12%			
0.080	5%	8%			
M.C.(%):	3%	4%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	58	52			
% SAND:	37	40			
% FINES:	5	8			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)			

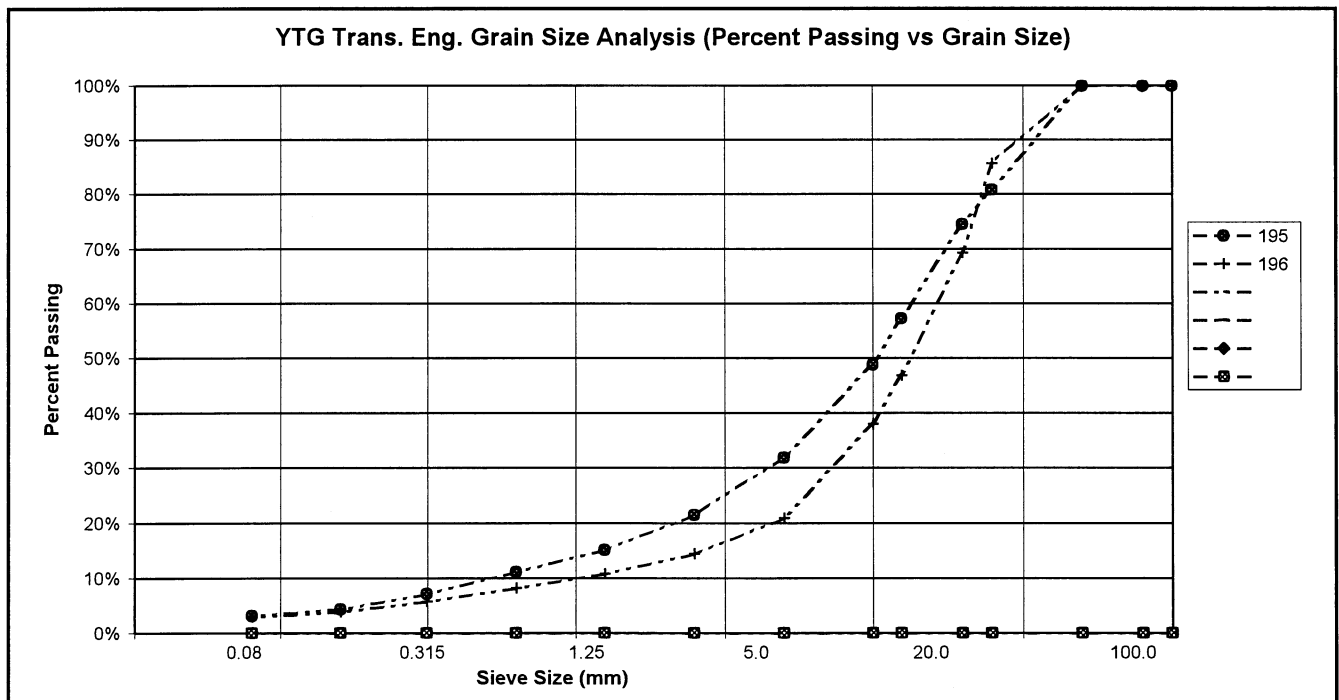


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1776+000 14M LT
 LOGGED BY: B.B.

HOLE No.: 600-120

DATE COMP: 2001/06/21

FIELD NO:	195	196			
LAB NO:	706	707			
DEPTH:	1.8-2.0	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	81%	86%			
20.0	75%	69%			
12.5	57%	47%			
10.0	49%	38%			
5.0	32%	21%			
2.5	21%	14%			
1.25	15%	11%			
0.630	11%	8%			
0.315	7%	6%			
0.160	4%	4%			
0.080	3%	3%			
M.C.(%):	2%	2%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	68	79			
% SAND:	29	18			
% FINES:	3	3			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SAND (GP)			

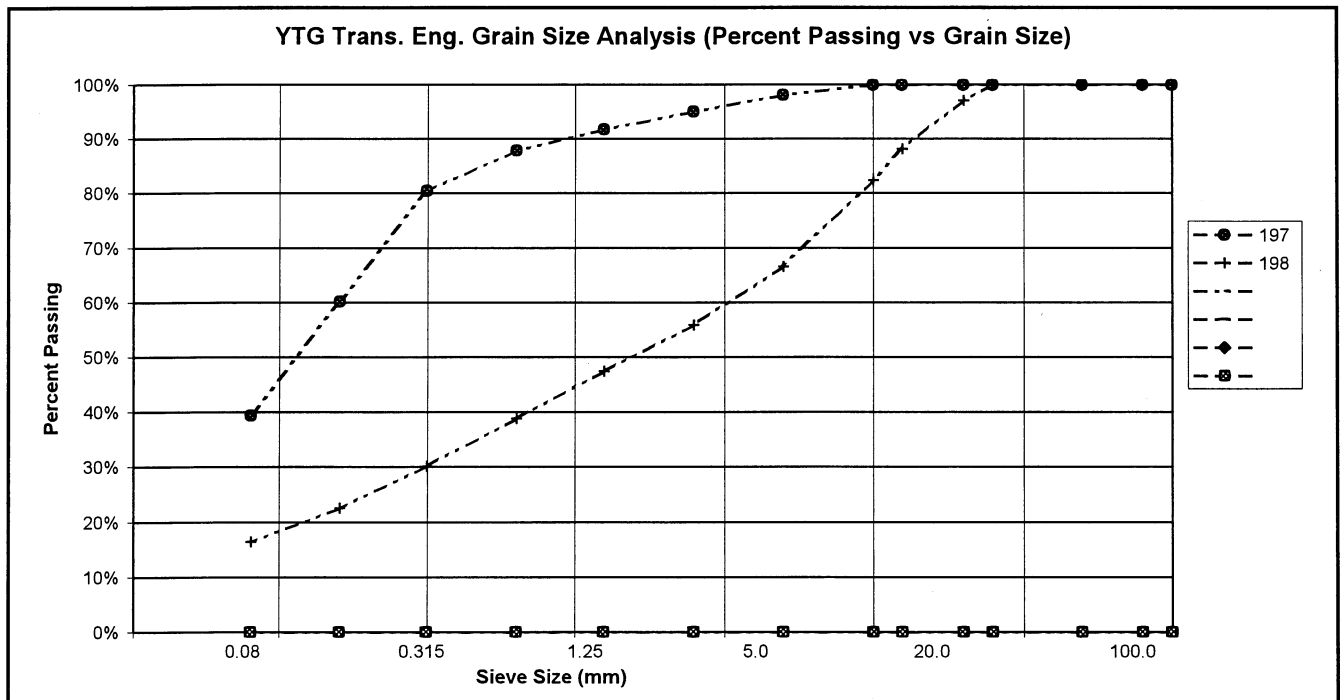


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1776+100 10M LT
 LOGGED BY: B.B.

HOLE No.: 600-121

DATE COMP: 2001/06/21

FIELD NO:	197	198			
LAB NO:	708	709			
DEPTH:	0.8-1.0	2.8-3.0			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	97%			
12.5	100%	88%			
10.0	100%	82%			
5.0	98%	67%			
2.5	95%	56%			
1.25	92%	47%			
0.630	88%	39%			
0.315	80%	30%			
0.160	60%	23%			
0.080	39%	16%			
M.C.(%)	15%	8%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	2	33			
% SAND:	59	50			
% FINES:	39	16			
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)			

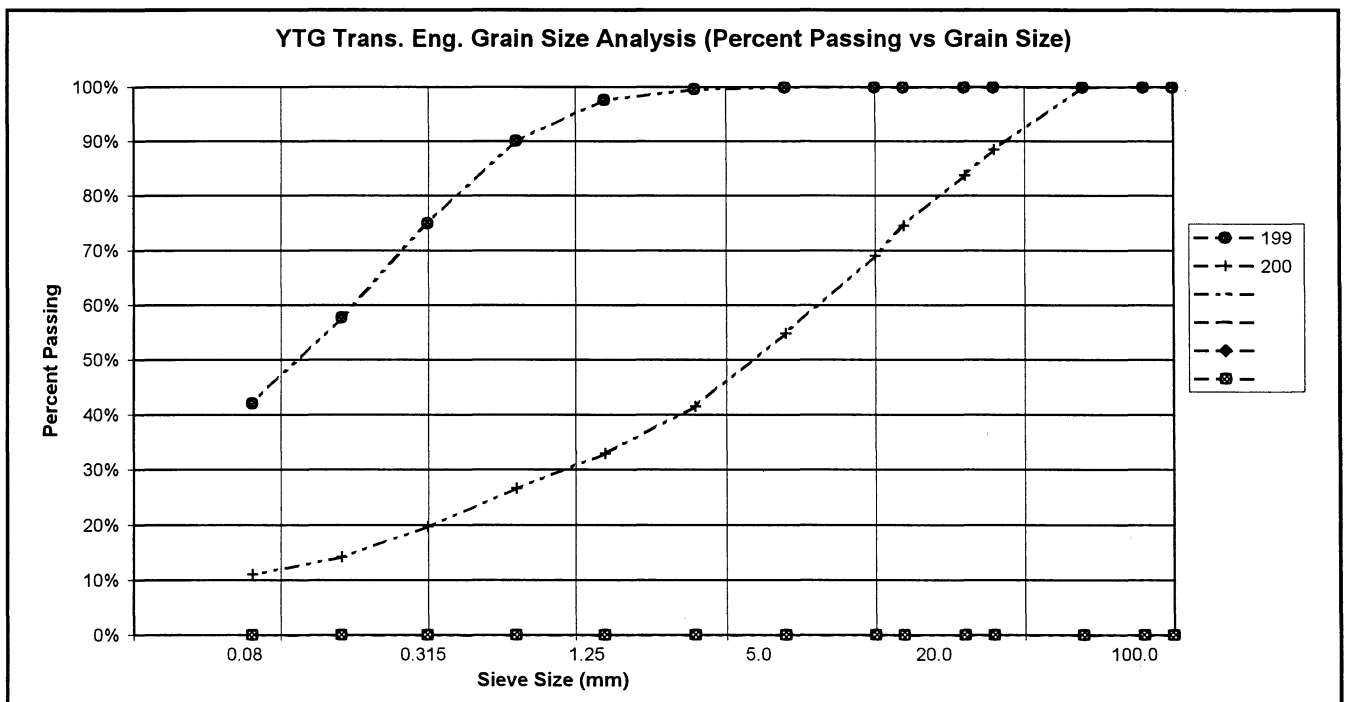


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1776+200 10M LT
 LOGGED BY: B.B.

HOLE No.: 601-122

DATE COMP: 2001/06/25

FIELD NO:	199	200			
LAB NO:	710	711			
DEPTH:	0.8-1.0	3.8-4.0			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	88%			
20.0	100%	84%			
12.5	100%	75%			
10.0	100%	69%			
5.0	100%	55%			
2.5	100%	42%			
1.25	98%	33%			
0.630	90%	27%			
0.315	75%	20%			
0.160	58%	14%			
0.080	42%	11%			
M.C.(%):	19%	4%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	0	45			
% SAND:	58	44			
% FINES:	42	11			
CLASSIFICATION	SILTY SAND (SM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)			

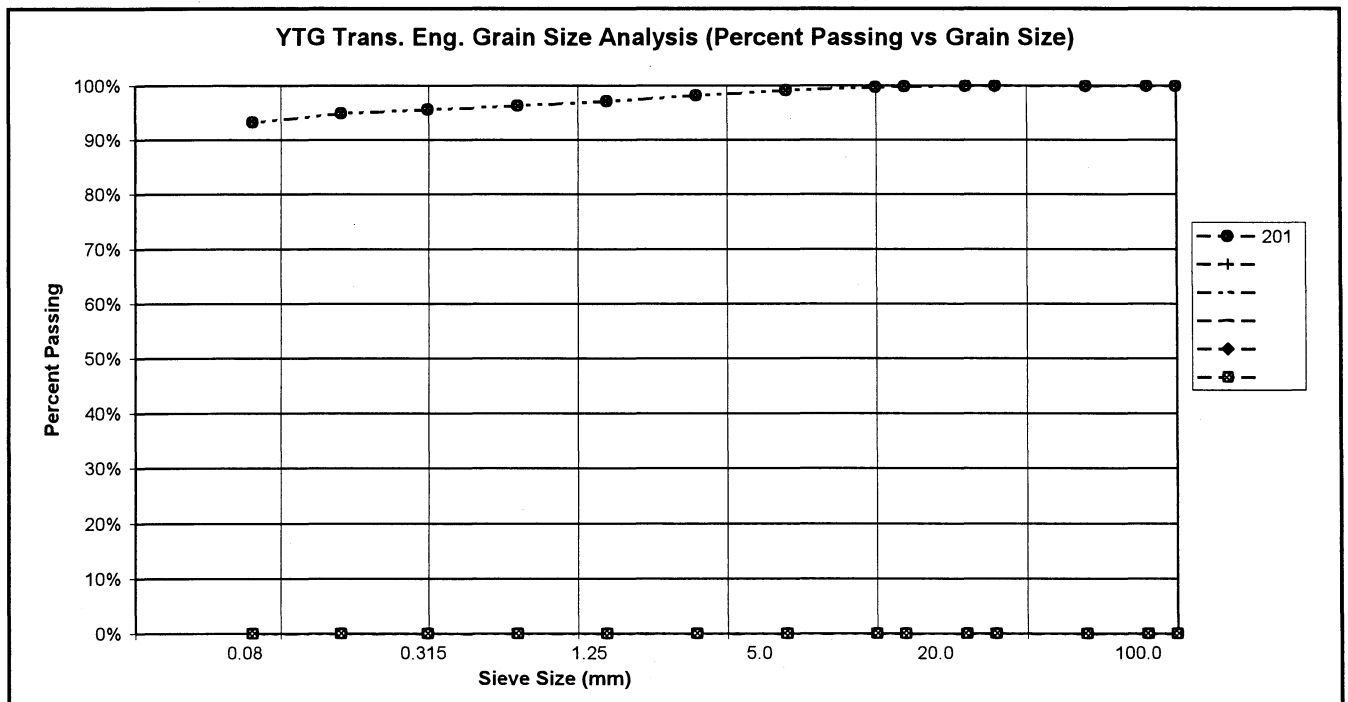


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1776+300 10M LT
 LOGGED BY: B.B.

HOLE No.: 601-123

DATE COMP: 2001/06/25

FIELD NO:	201				
LAB NO:	712				
DEPTH:	1.3-1.5				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	100%				
12.5	100%				
10.0	100%				
5.0	99%				
2.5	98%				
1.25	97%				
0.630	96%				
0.315	96%				
0.160	95%				
0.080	93%				
M.C.(%):	56%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	1				
% SAND:	6				
% FINES:	93				
CLASSIFICATION	SILT (ML)				

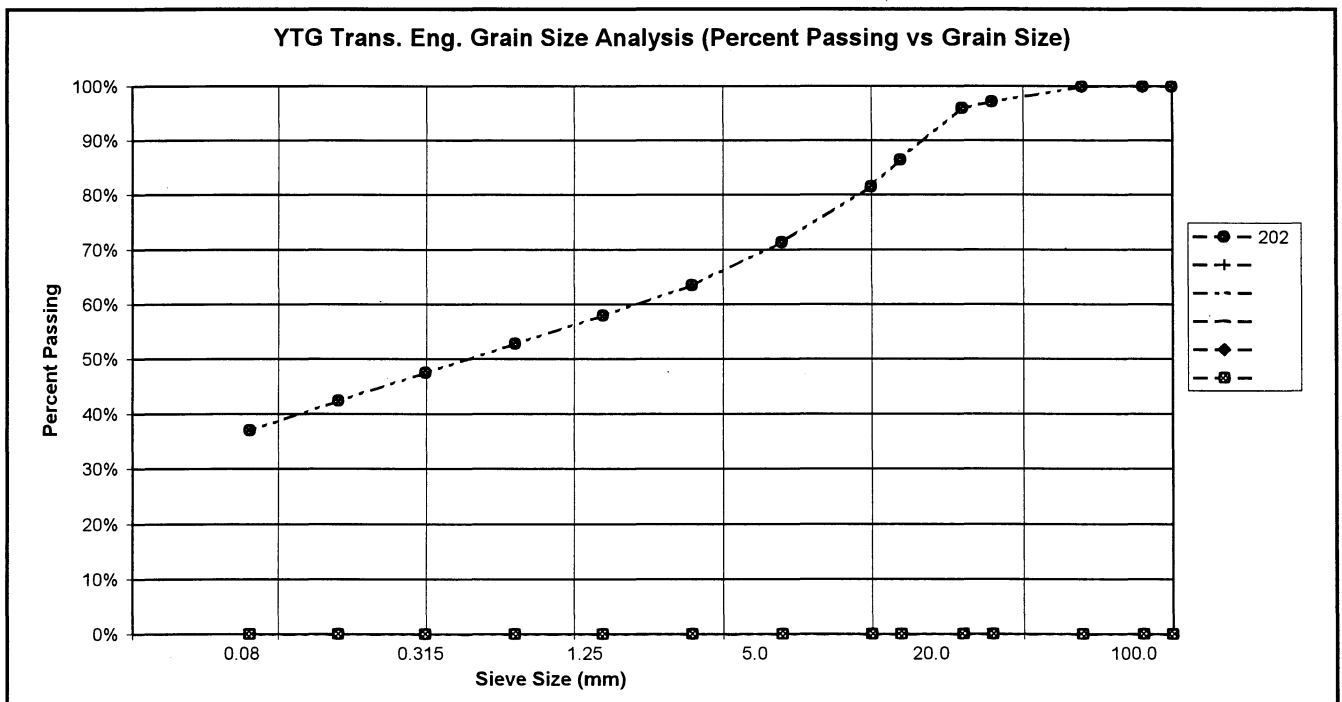


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1776+370 2M LT
 LOGGED BY: B.B.

HOLE No.: 601-124

DATE COMP: 2001/06/25

FIELD NO:	202				
LAB NO:	713				
DEPTH:	3.8-4.0				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	97%				
20.0	96%				
12.5	86%				
10.0	82%				
5.0	71%				
2.5	64%				
1.25	58%				
0.630	53%				
0.315	47%				
0.160	43%				
0.080	37%				
M.C.(%):	11%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	29				
% SAND:	34				
% FINES:	37				
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)				

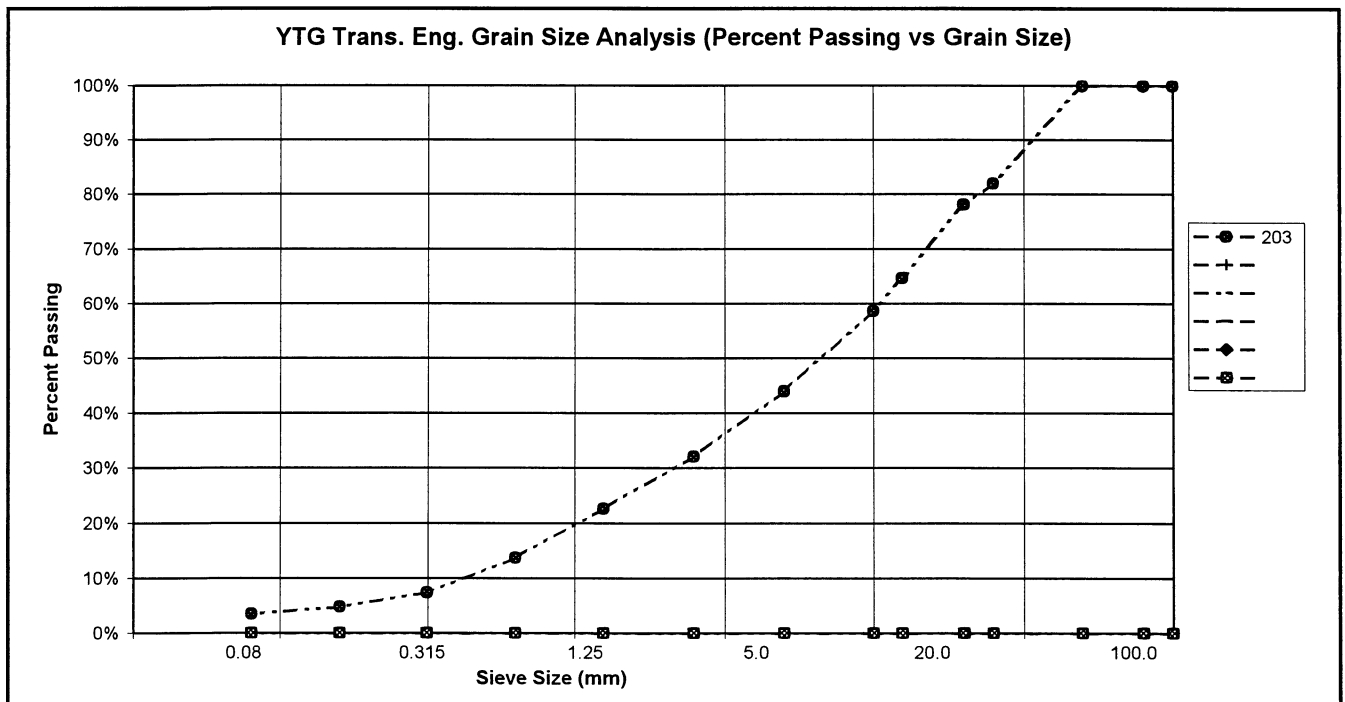


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1776+370 20M LT
 LOGGED BY: B.B.

HOLE No.: 601-125

DATE COMP: 2001/06/26

FIELD NO:	203				
LAB NO:	714				
DEPTH:	1.8-2.0				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	82%				
20.0	78%				
12.5	65%				
10.0	59%				
5.0	44%				
2.5	32%				
1.25	23%				
0.630	14%				
0.315	7%				
0.160	5%				
0.080	4%				
M.C.(%):	7%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	56				
% SAND:	40				
% FINES:	4				
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)				

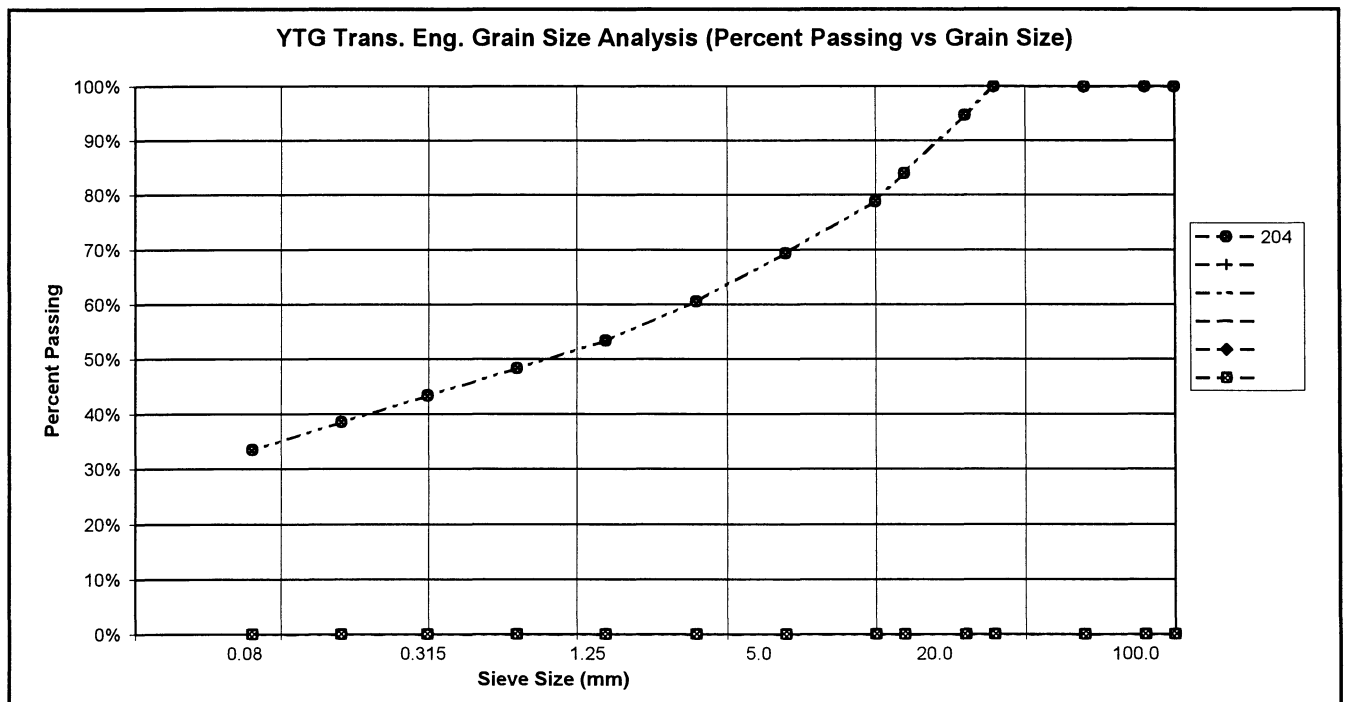


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1776+378 23M RT
 LOGGED BY: B.B.

HOLE No.: 601-126

DATE COMP: 2001/06/26

FIELD NO:	204				
LAB NO:	715				
DEPTH:	4.3-4.5				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	95%				
12.5	84%				
10.0	79%				
5.0	69%				
2.5	61%				
1.25	53%				
0.630	48%				
0.315	43%				
0.160	39%				
0.080	34%				
M.C.(%):	10%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	31				
% SAND:	36				
% FINES:	34				
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)				

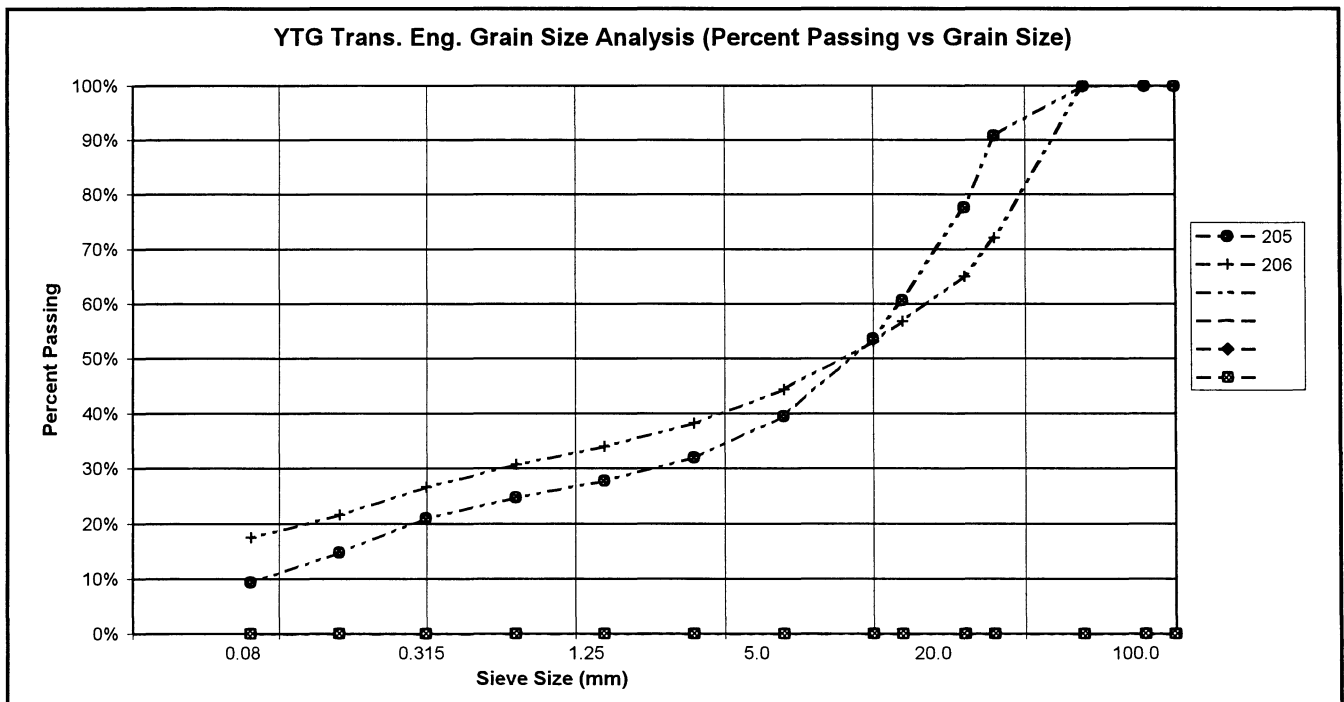


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1776+550 CL
 LOGGED BY: B.B.

HOLE No.: 601-127

DATE COMP: 2001/06/26

FIELD NO:	205	206			
LAB NO:	716	717			
DEPTH:	1.3-1.5	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	91%	72%			
20.0	78%	65%			
12.5	61%	57%			
10.0	54%	53%			
5.0	40%	44%			
2.5	32%	38%			
1.25	28%	34%			
0.630	25%	31%			
0.315	21%	27%			
0.160	15%	22%			
0.080	9%	17%			
M.C.(%):	7%	11%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	60	56			
% SAND:	30	27			
% FINES:	9	17			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY GRAVEL WITH SAND (GM)			

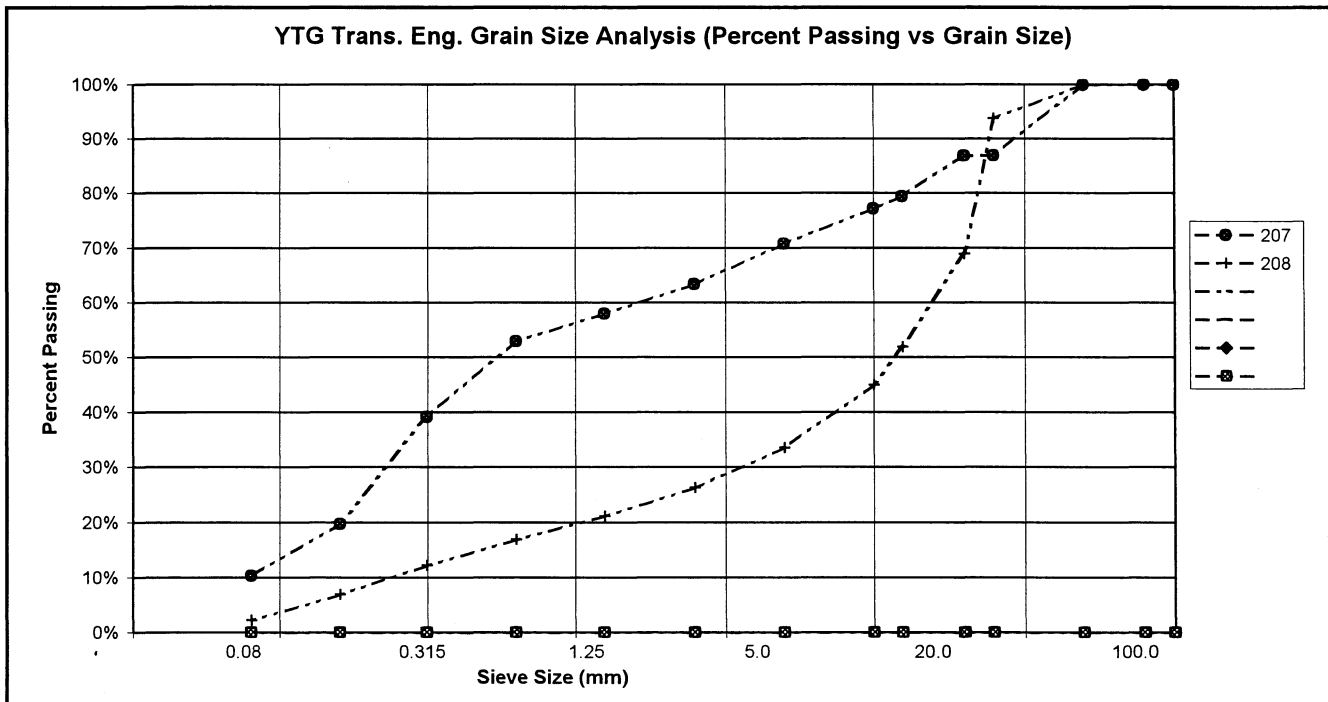


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1776+650 CL
 LOGGED BY: B.B.

HOLE No.: 601-128

DATE COMP: 2001/06/26

FIELD NO:	207	208			
LAB NO:	718	719			
DEPTH:	1.3-1.5	3.8-4.0			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	87%	94%			
20.0	87%	69%			
12.5	79%	52%			
10.0	77%	45%			
5.0	71%	34%			
2.5	63%	26%			
1.25	58%	21%			
0.630	53%	17%			
0.315	39%	12%			
0.160	20%	7%			
0.080	10%	2%			
M.C.(%):	4%	8%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	29	66			
% SAND:	60	31			
% FINES:	10	2			
CLASSIFICATION	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	POORLY GRADED GRAVEL WITH SAND (GP)			

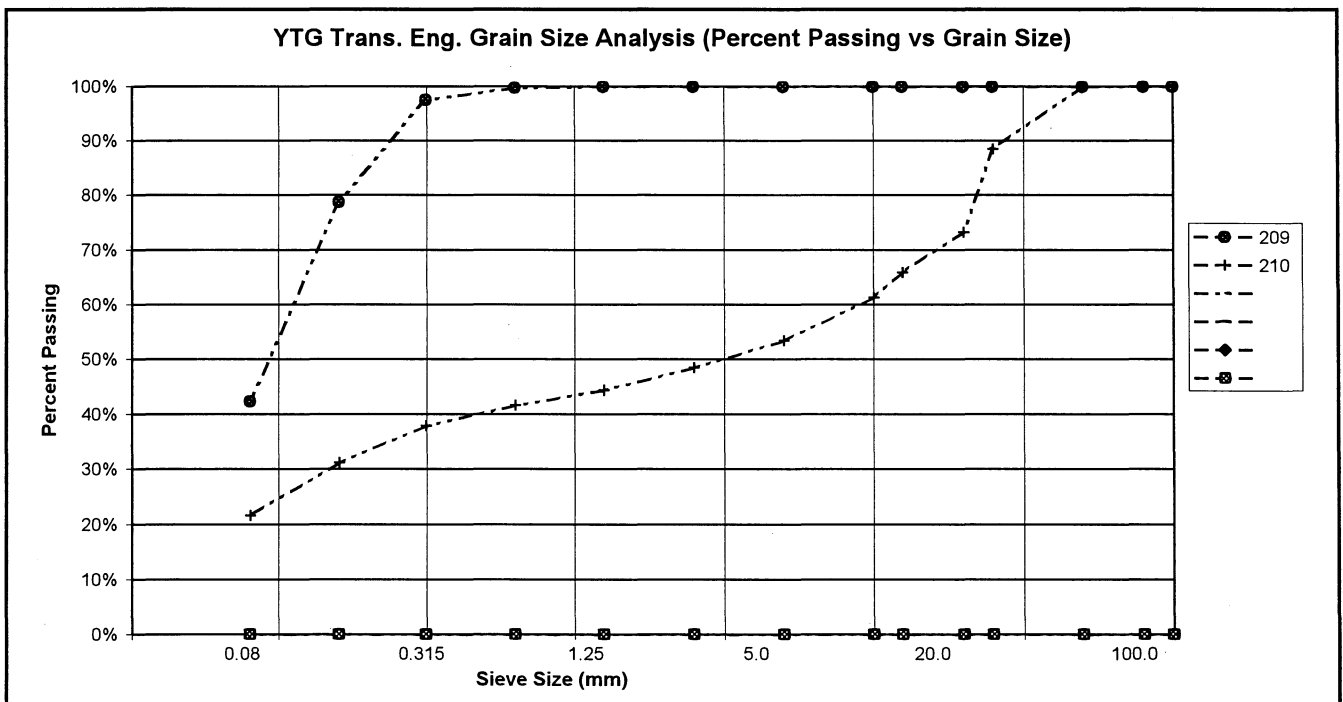


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1776+682 CL
 LOGGED BY: B.B.

HOLE No.: 601-129

DATE COMP: 2001/06/27

FIELD NO:	209	210			
LAB NO:	720	721			
DEPTH:	0.8-1.0	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	88%			
20.0	100%	73%			
12.5	100%	66%			
10.0	100%	61%			
5.0	100%	53%			
2.5	100%	49%			
1.25	100%	44%			
0.630	100%	42%			
0.315	97%	38%			
0.160	79%	31%			
0.080	42%	22%			
M.C.(%):	19%	9%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	0	47			
% SAND:	58	32			
% FINES:	42	22			
CLASSIFICATION	SILTY SAND (SM)	SILTY GRAVEL WITH SAND (GM)			

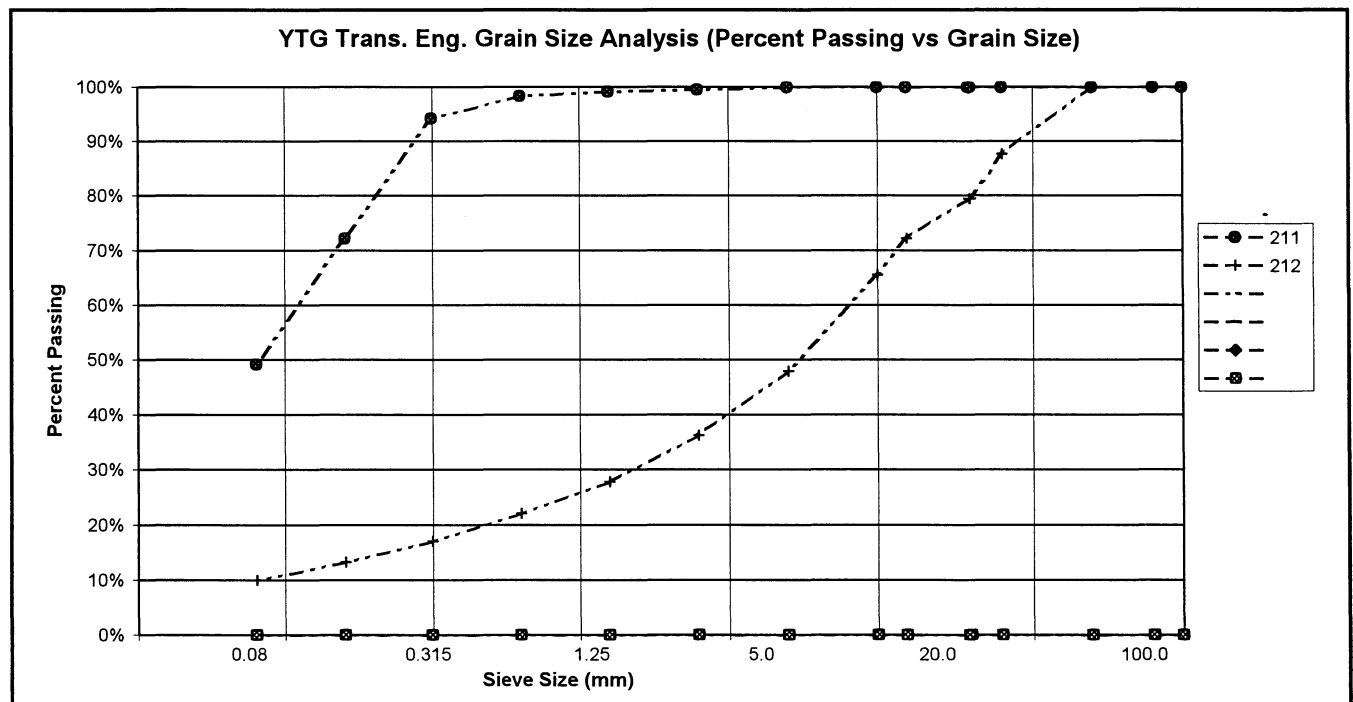


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1776+682 20M RT
 LOGGED BY: B.B.

HOLE No.: 601-130

DATE COMP: 2001/06/27

FIELD NO:	211	212			
LAB NO:	722	723			
DEPTH:	1.3-1.5	2.6-2.8			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	88%			
20.0	100%	79%			
12.5	100%	72%			
10.0	100%	65%			
5.0	100%	48%			
2.5	100%	36%			
1.25	99%	28%			
0.630	98%	22%			
0.315	94%	17%			
0.160	72%	13%			
0.080	49%	10%			
M.C.(%)	27%	7%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	0	52			
% SAND:	51	38			
% FINES:	49	10			
CLASSIFICATION	SILTY SAND (SM)	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)			

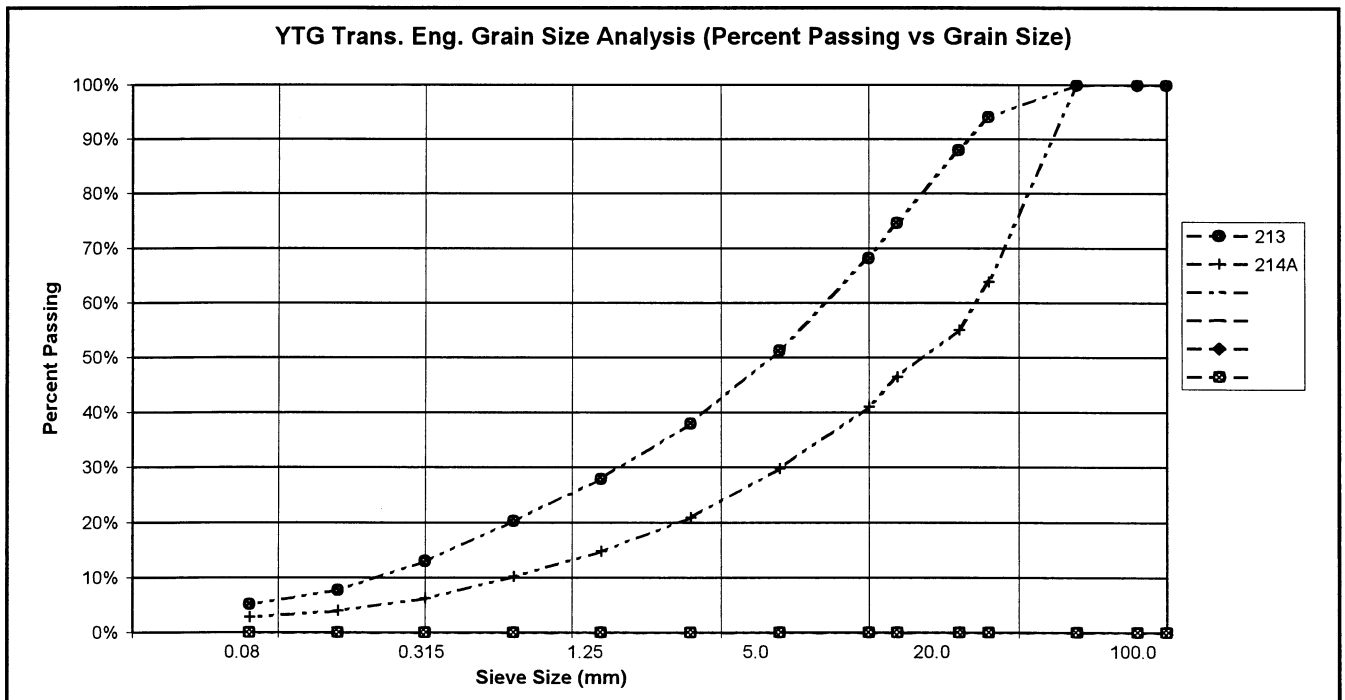


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1776+750 CL
 LOGGED BY: B.B.

HOLE No.: 601-131

DATE COMP: 2001/06/27

FIELD NO:	213	214A			
LAB NO:	724	725			
DEPTH:	1.3-1.5	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	94%	64%			
20.0	88%	55%			
12.5	75%	46%			
10.0	68%	41%			
5.0	51%	30%			
2.5	38%	21%			
1.25	28%	15%			
0.630	20%	10%			
0.315	13%	6%			
0.160	8%	4%			
0.080	5%	3%			
M.C.(%):	2%	2%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	49	70			
% SAND:	46	27			
% FINES:	5	3			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	WELL-GRADED GRAVEL WITH SAND (GW)			

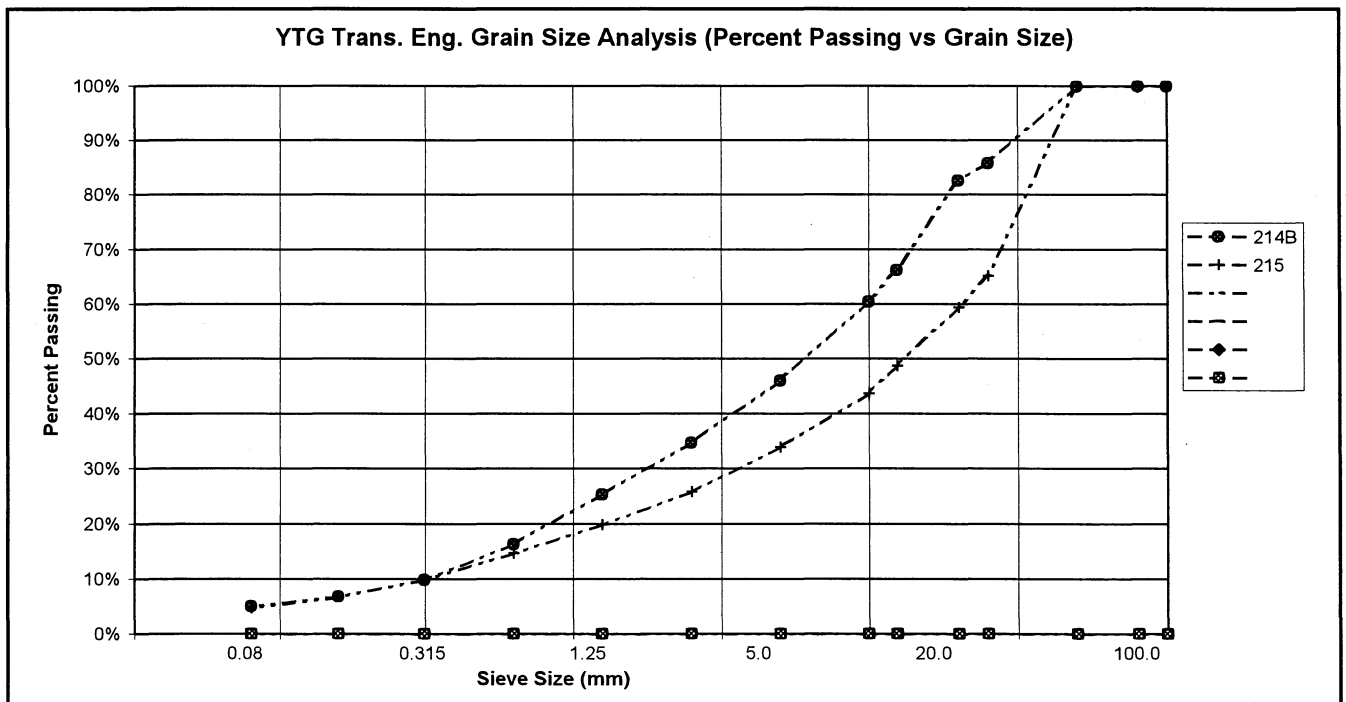


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1776+850 2M RT
 LOGGED BY: B.B.

HOLE No.: 601-132

DATE COMP: 2001/06/27

FIELD NO:	214B	215			
LAB NO:	726	727			
DEPTH:	1.8-2.0	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	86%	65%			
20.0	83%	59%			
12.5	66%	49%			
10.0	60%	44%			
5.0	46%	34%			
2.5	35%	26%			
1.25	25%	20%			
0.630	16%	15%			
0.315	10%	10%			
0.160	7%	7%			
0.080	5%	5%			
M.C.(%)	2%	2%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	54	66			
% SAND:	41	29			
% FINES:	5	5			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SAND (GP)			

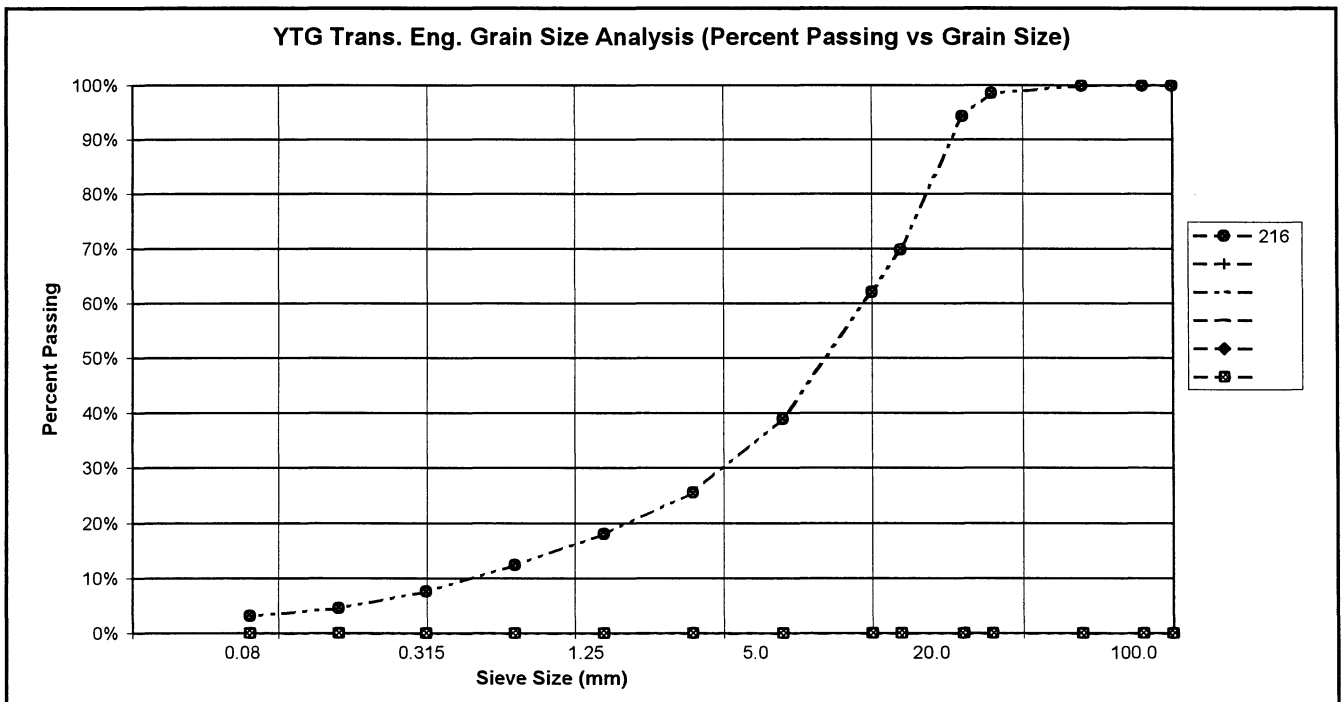


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1776+950 2M RT
 LOGGED BY: B.B.

HOLE No.: 601-133

DATE COMP: 2001/06/27

FIELD NO:	216				
LAB NO:	728				
DEPTH:	2.8-3.0				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	99%				
20.0	94%				
12.5	70%				
10.0	62%				
5.0	39%				
2.5	26%				
1.25	18%				
0.630	12%				
0.315	8%				
0.160	5%				
0.080	3%				
M.C.(%)	2%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	61				
% SAND:	36				
% FINES:	3				
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)				

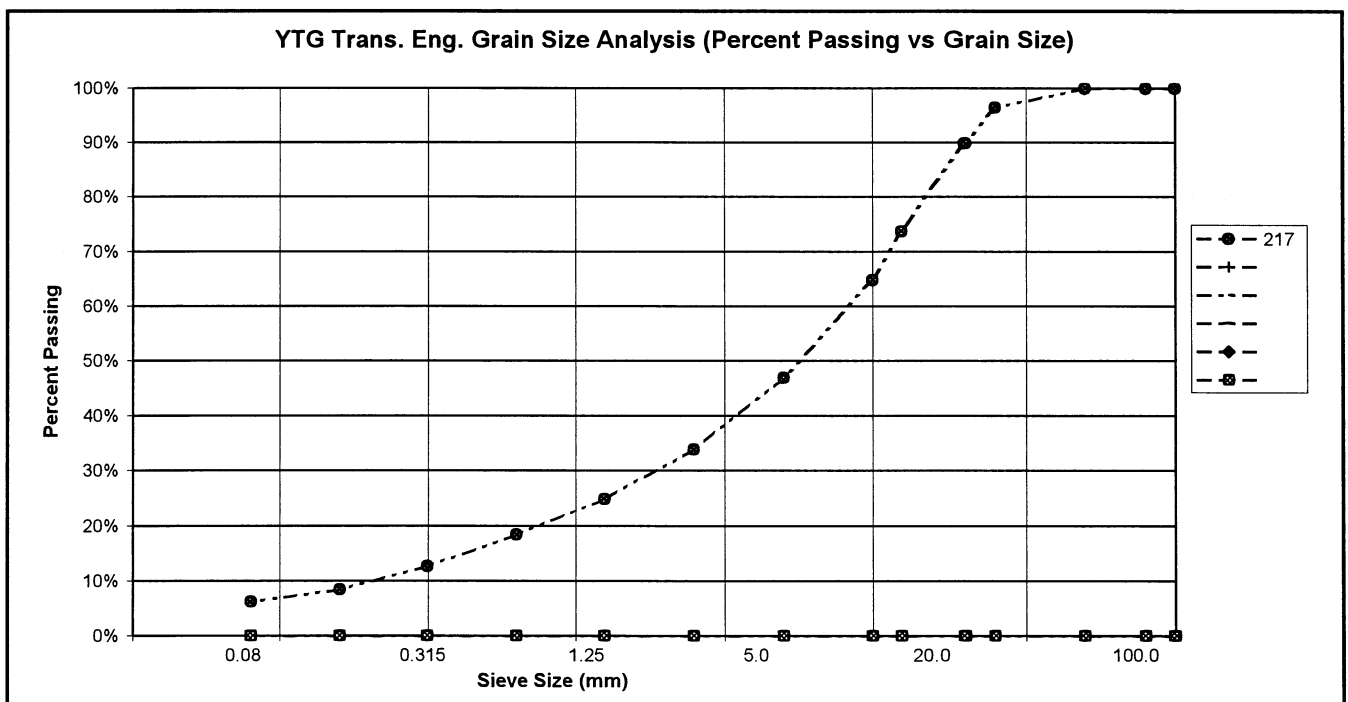


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1777+050 2M RT
 LOGGED BY: B.B.

HOLE No.: 601-134

DATE COMP: 2001/06/27

FIELD NO:	217				
LAB NO:	729				
DEPTH:	4.3-4.5				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	96%				
20.0	90%				
12.5	74%				
10.0	65%				
5.0	47%				
2.5	34%				
1.25	25%				
0.630	18%				
0.315	13%				
0.160	8%				
0.080	6%				
M.C.(%):	3%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	53				
% SAND:	41				
% FINES:	6				
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)				

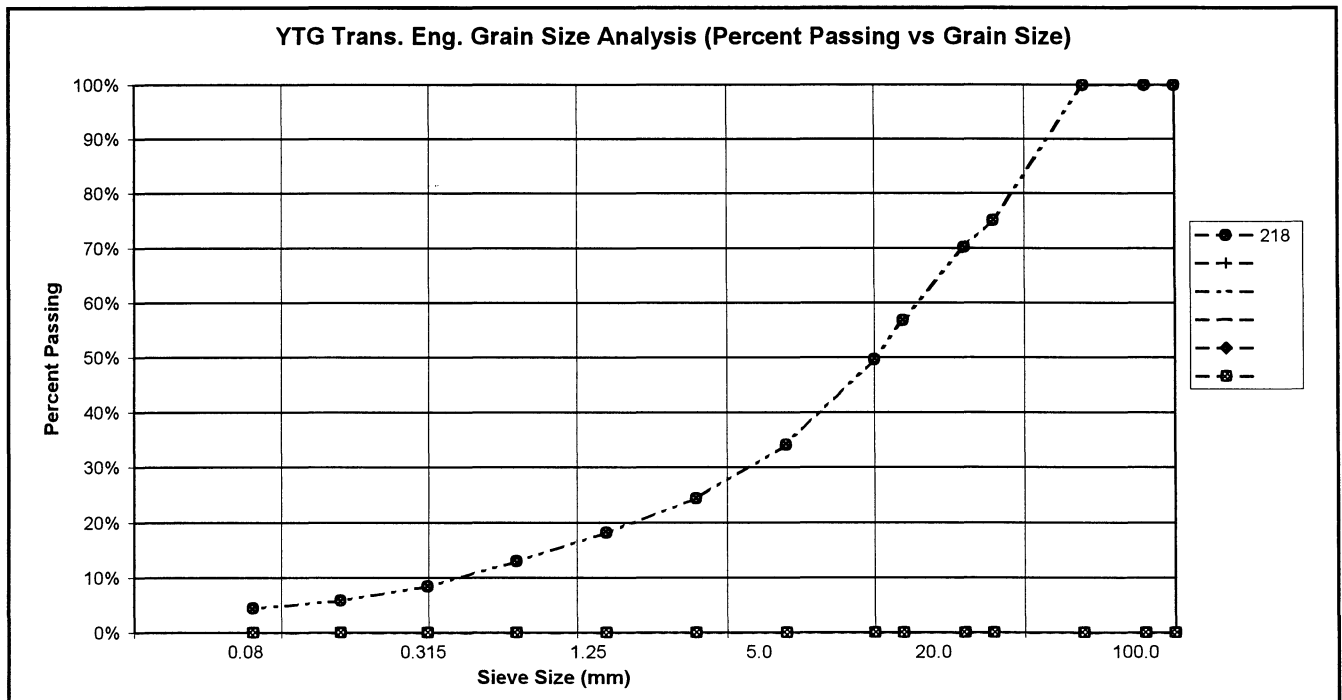


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1777+150 10M RT
 LOGGED BY: B.B.

HOLE No.: 601-135

DATE COMP: 2001/06/27

FIELD NO:	218				
LAB NO:	730				
DEPTH:	4.3-4.5				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	75%				
20.0	70%				
12.5	57%				
10.0	50%				
5.0	34%				
2.5	24%				
1.25	18%				
0.630	13%				
0.315	9%				
0.160	6%				
0.080	5%				
M.C.(%)	3%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	66				
% SAND:	30				
% FINES:	5				
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)				

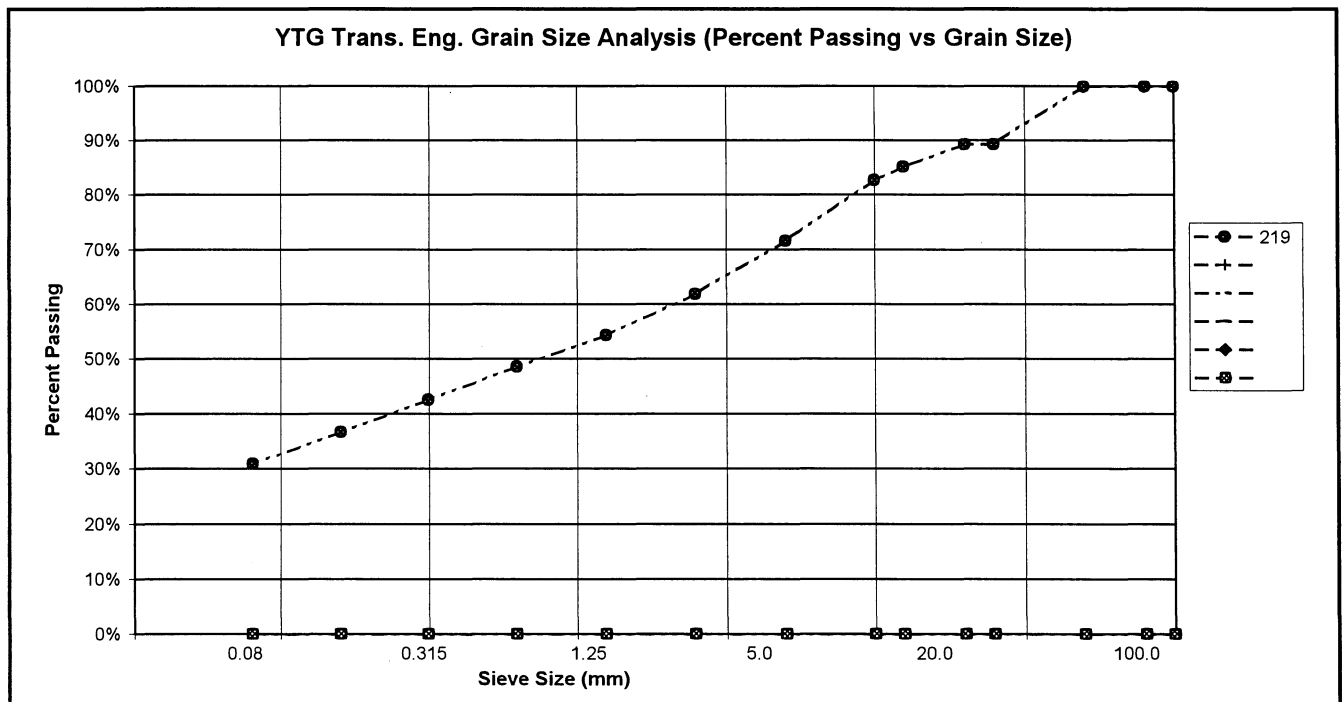


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1777+100 35M RT
 LOGGED BY: B.B.

HOLE No.: 601-136

DATE COMP: 2001/06/27

FIELD NO:	219				
LAB NO:	731				
DEPTH:	2.4-2.6				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	89%				
20.0	89%				
12.5	85%				
10.0	83%				
5.0	72%				
2.5	62%				
1.25	54%				
0.630	49%				
0.315	43%				
0.160	37%				
0.080	31%				
M.C.(%)	5%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	28				
% SAND:	41				
% FINES:	31				
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)				

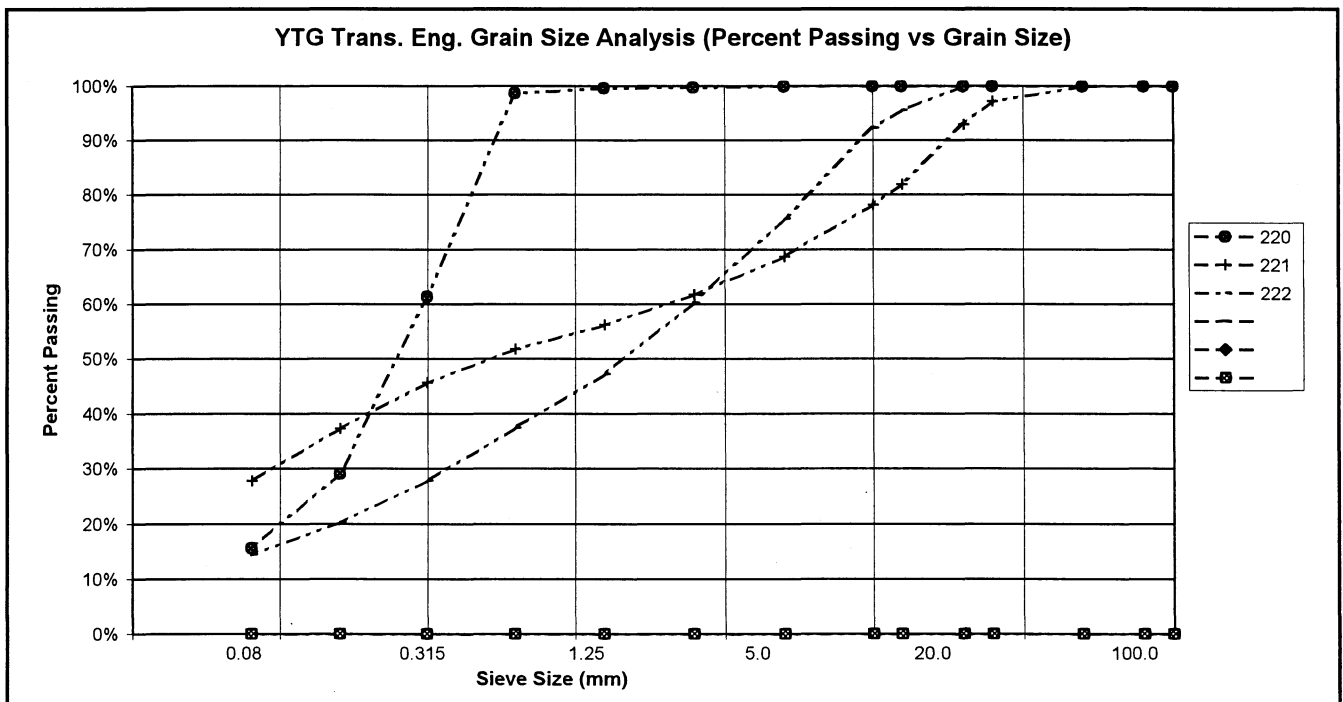


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1777+000 35M LT
 LOGGED BY: B.B.

HOLE No.: 601-137

DATE COMP: 2001/06/27

FIELD NO:	220	221	222		
LAB NO:	732	733	734		
DEPTH:	0.6-0.8	1.5-1.6	2.6-2.8		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	97%	100%		
20.0	100%	93%	100%		
12.5	100%	82%	96%		
10.0	100%	78%	92%		
5.0	100%	69%	76%		
2.5	100%	62%	60%		
1.25	100%	56%	47%		
0.630	99%	52%	37%		
0.315	61%	46%	28%		
0.160	29%	37%	20%		
0.080	16%	28%	14%		
M.C.(%)	13%	12%	9%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	0	31	24		
% SAND:	84	41	61		
% FINES:	16	28	14		
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

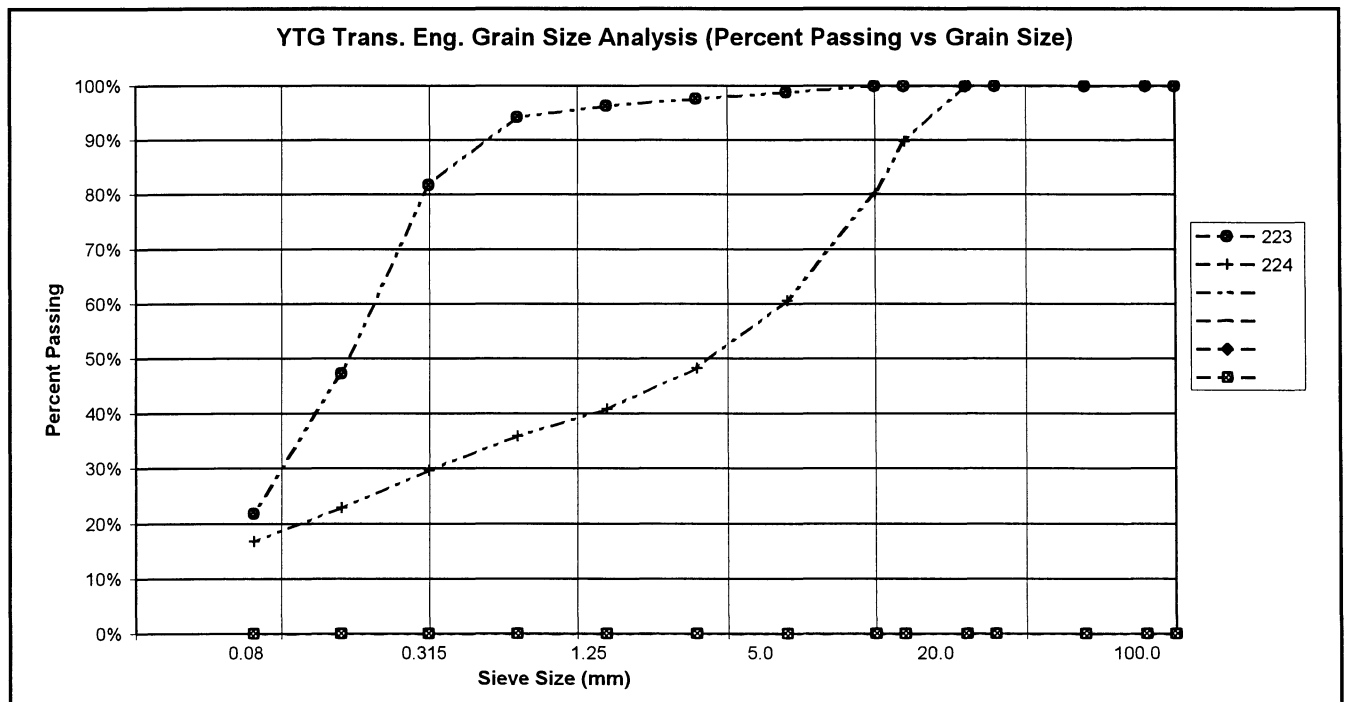


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1776+900 35M LT
 LOGGED BY: B.B.

HOLE No.: 601-138

DATE COMP: 2001/06/27

FIELD NO:	223	224			
LAB NO:	735	736			
DEPTH:	0.8-1.0	2.7-2.8			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	100%			
12.5	100%	90%			
10.0	100%	80%			
5.0	99%	61%			
2.5	98%	48%			
1.25	96%	41%			
0.630	94%	36%			
0.315	82%	30%			
0.160	47%	23%			
0.080	22%	17%			
M.C.(%)	22%	19%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	1	39			
% SAND:	77	44			
% FINES:	22	17			
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)			

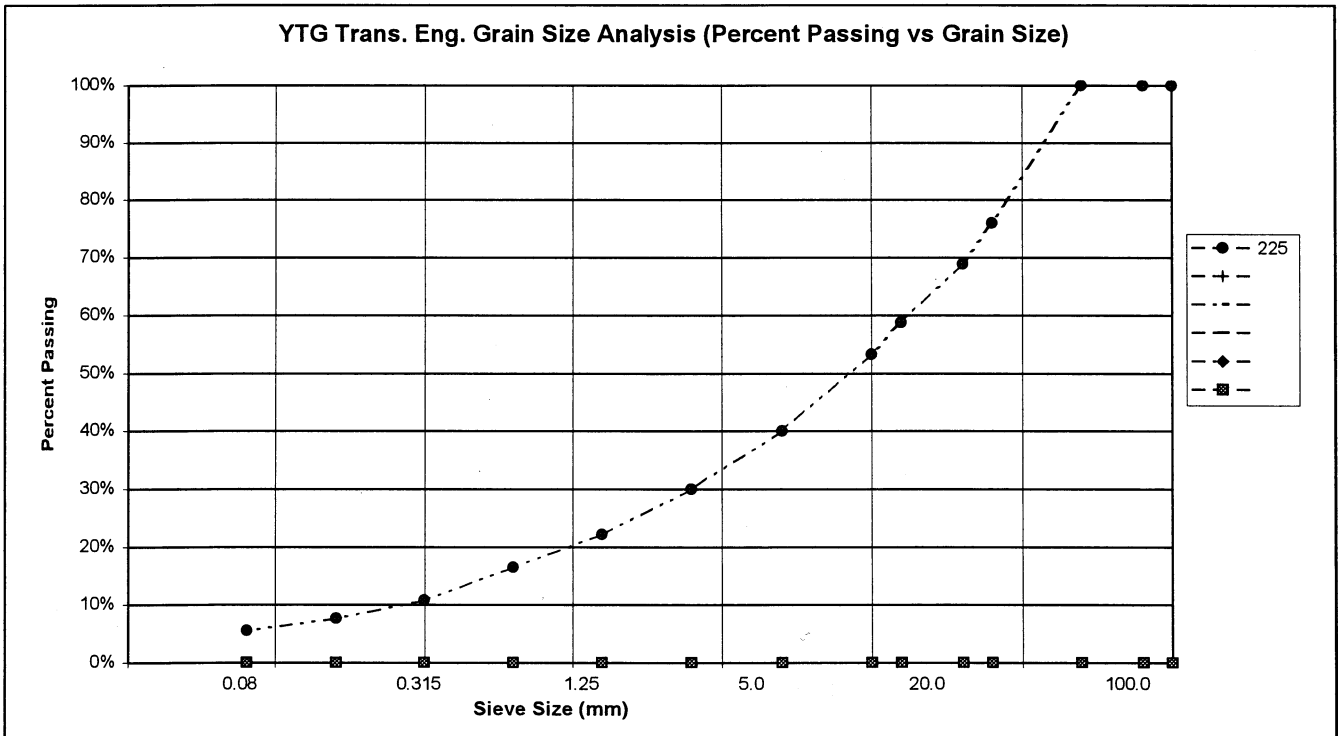


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1776+900 35M LT
 LOGGED BY: B.B.

HOLE No.: 601-139

DATE COMP: 2001/06/27

FIELD NO:	225				
LAB NO:	737				
DEPTH:	1.4-1.6				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	76%				
20.0	69%				
12.5	59%				
10.0	53%				
5.0	40%				
2.5	30%				
1.25	22%				
0.630	16%				
0.315	11%				
0.160	8%				
0.080	6%				
M.C.(%):	3%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX:	0.0				
% GRAVEL:	60				
% SAND:	34				
% FINES:	6				
CLASSIFICATION	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)				

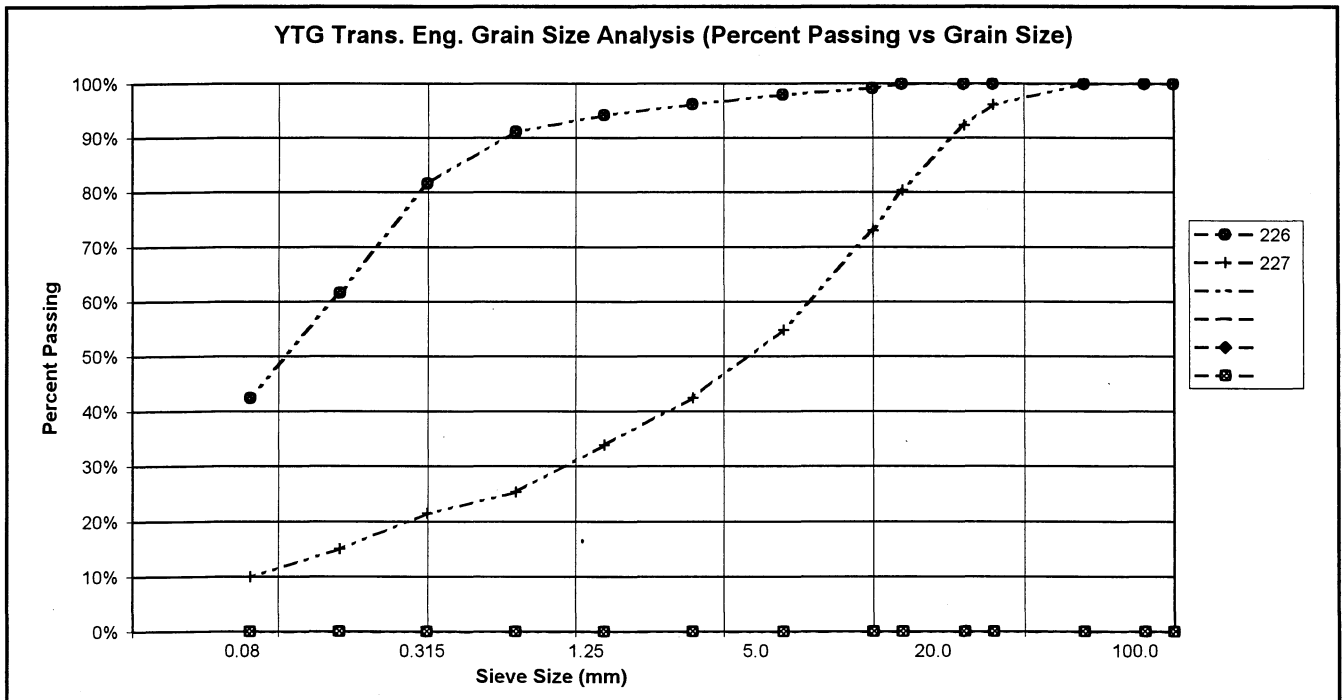


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1776+700 35M LT
 LOGGED BY: B.B.

HOLE No.: 601-140

DATE COMP: 2001/06/27

FIELD NO:	226	227			
LAB NO:	738	739			
DEPTH:	1.3-1.5	2.6-2.8			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	96%			
20.0	100%	92%			
12.5	100%	80%			
10.0	99%	73%			
5.0	98%	55%			
2.5	96%	42%			
1.25	94%	34%			
0.630	91%	25%			
0.315	82%	21%			
0.160	62%	15%			
0.080	42%	10%			
M.C.(%):	16%	4%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	2	45			
% SAND:	56	45			
% FINES:	42	10			
CLASSIFICATION	SILTY SAND (SM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)			

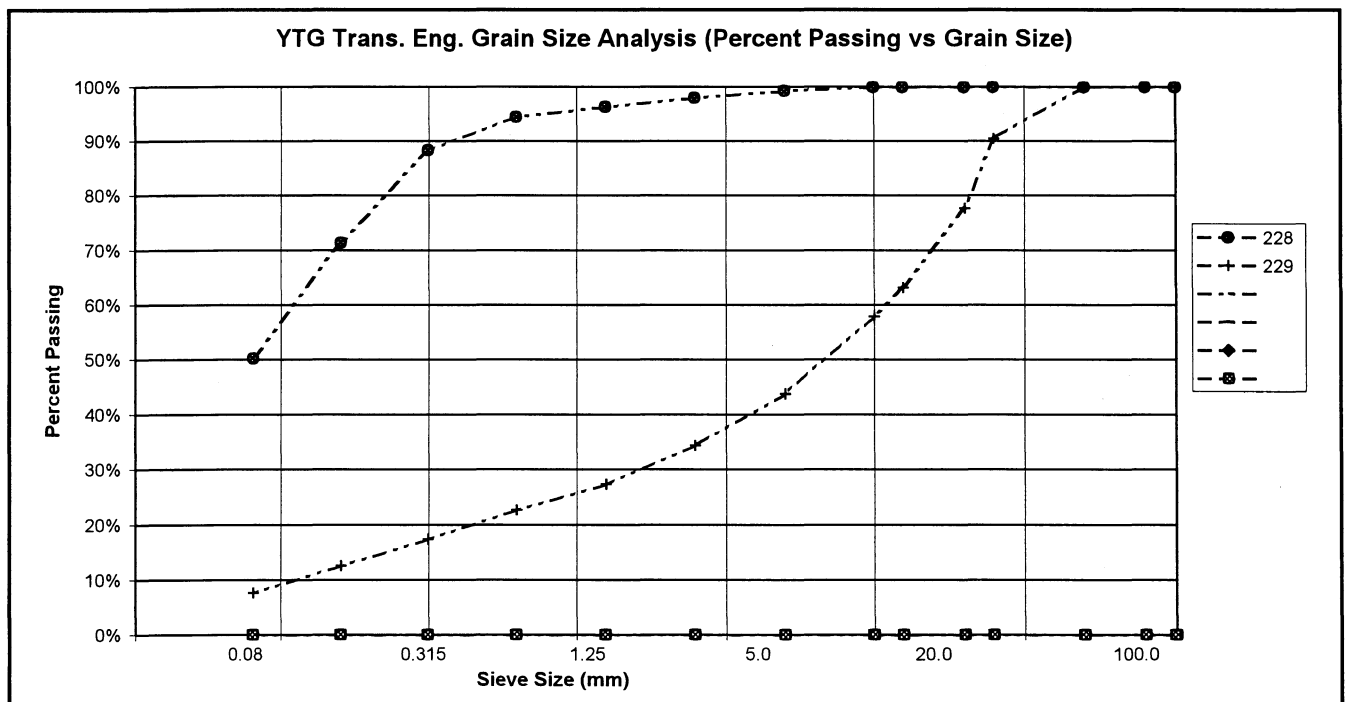


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1776+600 35M LT
 LOGGED BY: B.B.

HOLE No.: 601-141

DATE COMP: 2001/06/27

FIELD NO:	228	229			
LAB NO:	740	741			
DEPTH:	1.4-1.6	2.4-2.6			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	91%			
20.0	100%	78%			
12.5	100%	63%			
10.0	100%	58%			
5.0	98%	44%			
2.5	98%	34%			
1.25	96%	27%			
0.630	94%	23%			
0.315	88%	17%			
0.160	71%	13%			
0.080	50%	8%			
M.C.(%)	28%	5%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	1	56			
% SAND:	49	36			
% FINES:	50	8			
CLASSIFICATION	SANDY SILT (ML)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)			

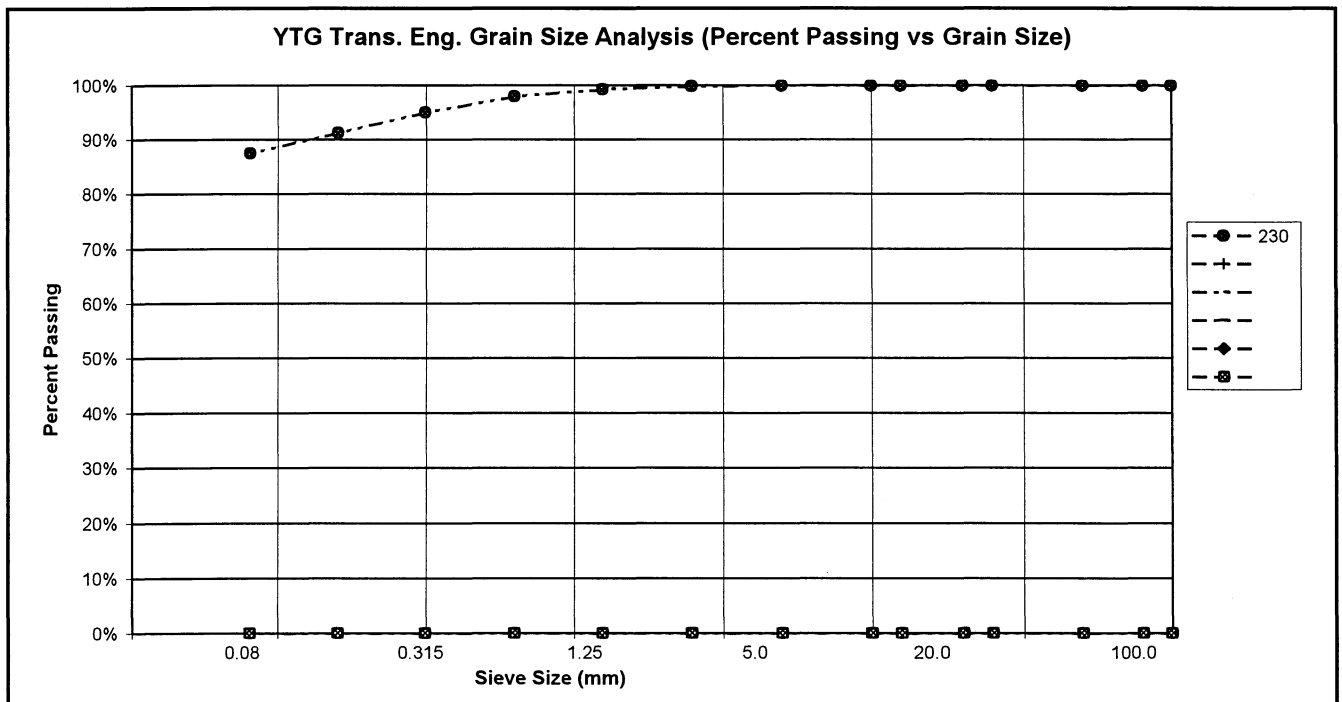


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1776+500 35M LT
 LOGGED BY: B.B.

HOLE No.: 601-142

DATE COMP: 2001/06/27

FIELD NO:	230				
LAB NO:	742				
DEPTH:	0.8-1.0				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	100%				
12.5	100%				
10.0	100%				
5.0	100%				
2.5	100%				
1.25	99%				
0.630	98%				
0.315	95%				
0.160	91%				
0.080	88%				
M.C.(%):	46%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	0				
% SAND:	12				
% FINES:	88				
CLASSIFICATION	SILT (ML)				

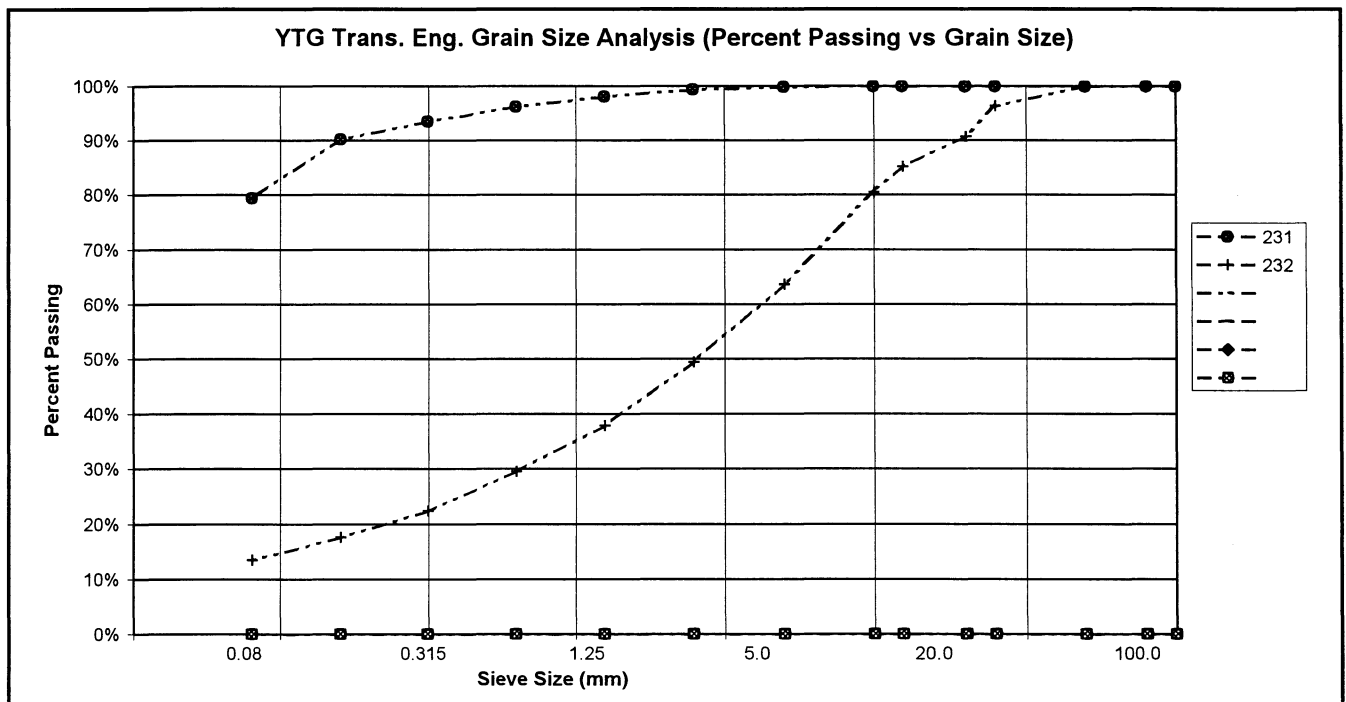


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1776+400 35M LT
 LOGGED BY: B.B.

HOLE No.: 601-143

DATE COMP: 2001/06/28

FIELD NO:	231	232			
LAB NO:	743	744			
DEPTH:	0.8-1.0	1.8-2.0			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	96%			
20.0	100%	91%			
12.5	100%	85%			
10.0	100%	81%			
5.0	100%	64%			
2.5	99%	49%			
1.25	98%	38%			
0.630	96%	30%			
0.315	93%	22%			
0.160	90%	18%			
0.080	80%	14%			
M.C.(%):	40%	7%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	0	36			
% SAND:	20	50			
% FINES:	80	14			
CLASSIFICATION	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)			

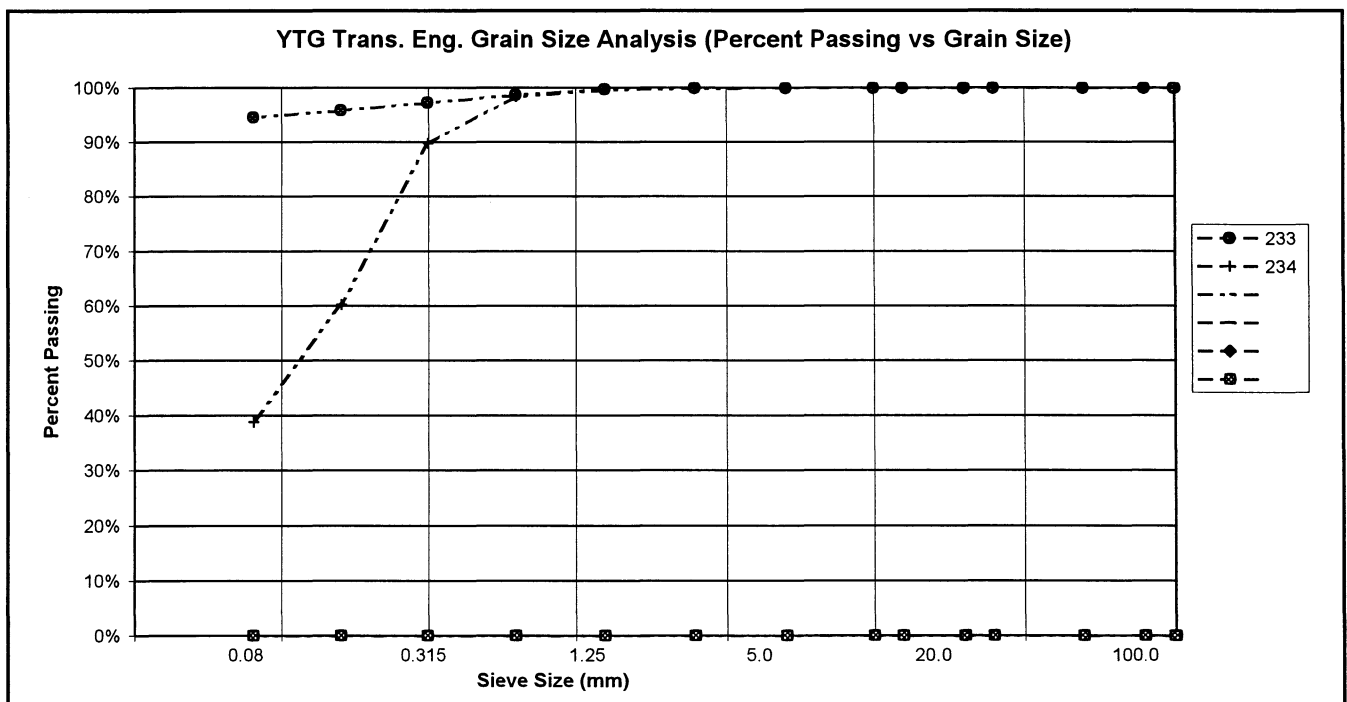


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1776+250 35M LT
 LOGGED BY: B.B.

HOLE No.: 601-144

DATE COMP: 2001/06/28

FIELD NO:	233	234			
LAB NO:	745	746			
DEPTH:	1.5-1.7	2.7-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	100%			
12.5	100%	100%			
10.0	100%	100%			
5.0	100%	100%			
2.5	100%	100%			
1.25	100%	100%			
0.630	99%	98%			
0.315	97%	90%			
0.160	96%	60%			
0.080	95%	39%			
M.C.(%):	53%	21%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	0	0			
% SAND:	5	61			
% FINES:	95	39			
CLASSIFICATION	SILT (ML)	SILTY SAND (SM)			

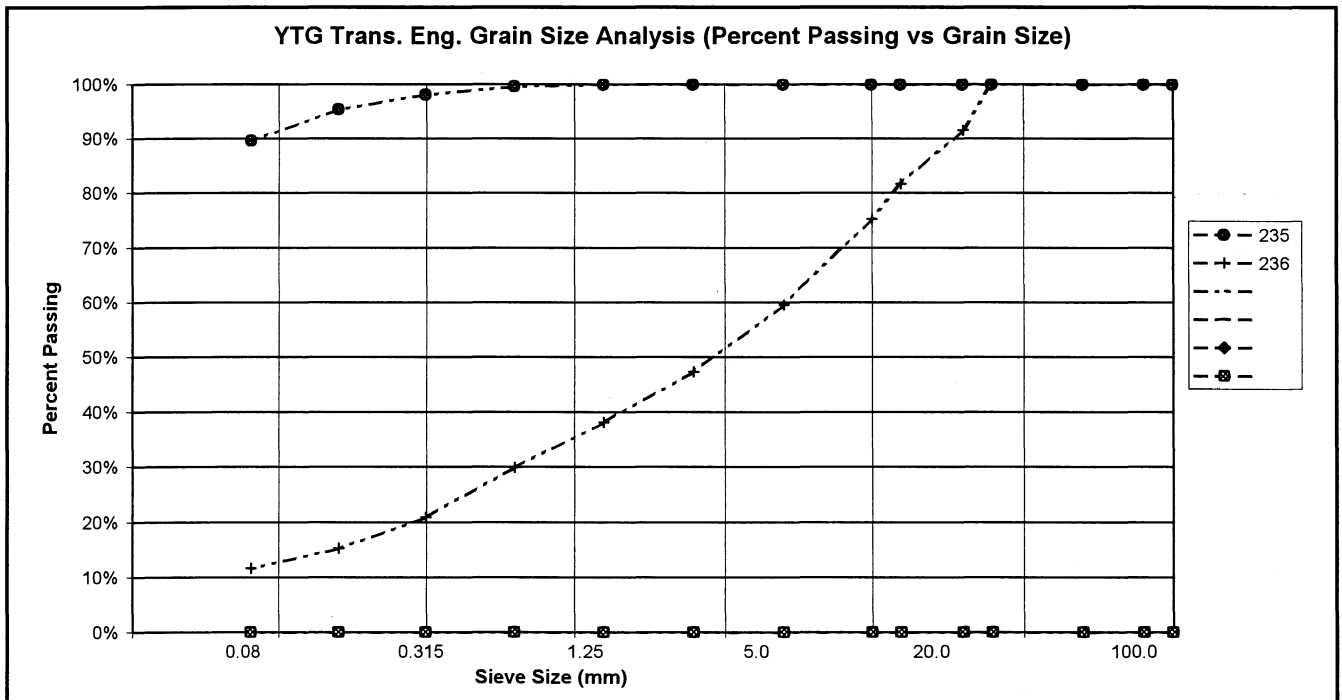


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1776+150 35M LT
 LOGGED BY: B.B.

HOLE No.: 601-145

DATE COMP: 2001/06/28

FIELD NO:	235	236			
LAB NO:	747	748			
DEPTH:	1.3-1.5	2.7-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	92%			
12.5	100%	82%			
10.0	100%	75%			
5.0	100%	59%			
2.5	100%	47%			
1.25	100%	38%			
0.630	100%	30%			
0.315	98%	21%			
0.160	95%	15%			
0.080	90%	12%			
M.C.(%):	60%	6%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	0	41			
% SAND:	10	48			
% FINES:	90	12			
CLASSIFICATION	SILT (ML)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)			

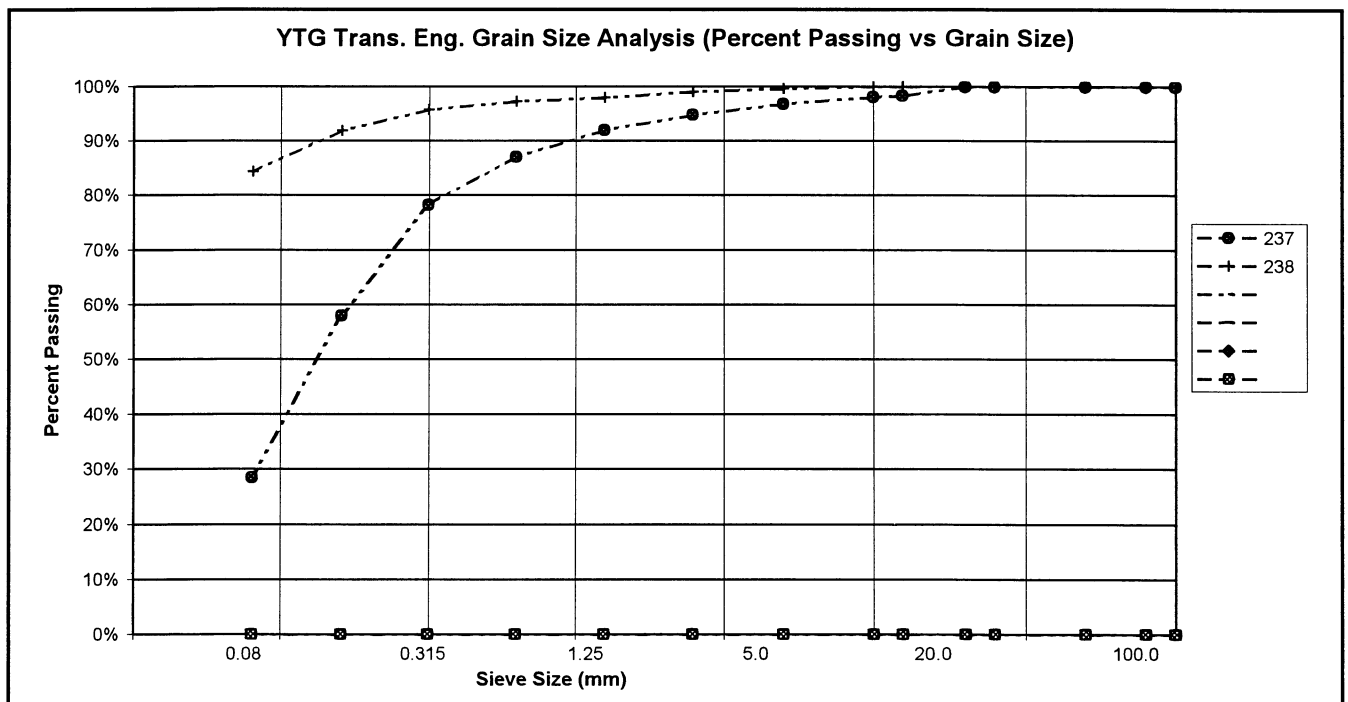


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1776+050 30M LT
 LOGGED BY: B.B.

HOLE No.: 601-146

DATE COMP: 2001/06/28

FIELD NO:	237	238			
LAB NO:	749	750			
DEPTH:	1.3-1.5	2.5-2.6			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	100%			
12.5	98%	100%			
10.0	98%	100%			
5.0	97%	100%			
2.5	95%	99%			
1.25	92%	98%			
0.630	87%	97%			
0.315	78%	96%			
0.160	58%	92%			
0.080	29%	84%			
M.C.(%):	13%	42%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	3	0			
% SAND:	68	15			
% FINES:	29	84			
CLASSIFICATION	SILTY SAND (SM)	SILT WITH SAND (ML)			

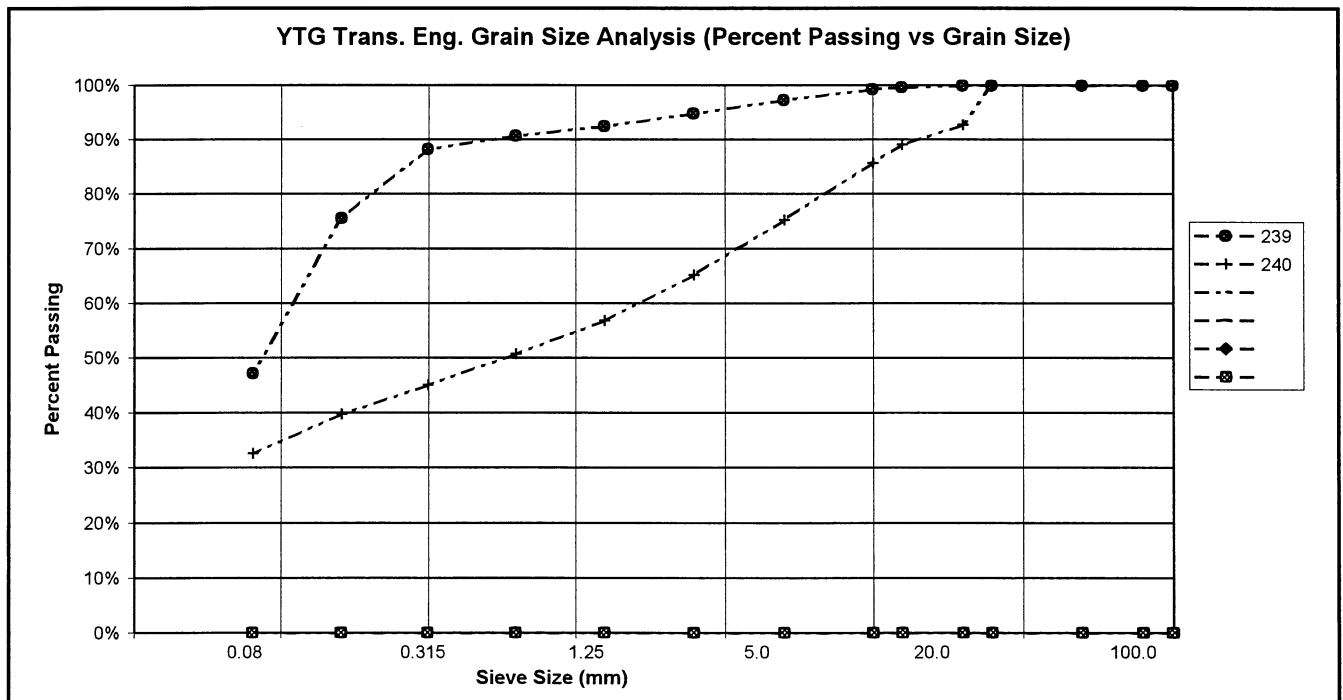


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1777+250 CL
 LOGGED BY: B.B.

HOLE No.: 602-147

DATE COMP: 2001/06/28

FIELD NO:	239	240			
LAB NO:	751	752			
DEPTH:	1.8-2.0	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	93%			
12.5	100%	89%			
10.0	99%	86%			
5.0	97%	75%			
2.5	95%	65%			
1.25	92%	57%			
0.630	91%	51%			
0.315	88%	45%			
0.160	76%	40%			
0.080	47%	33%			
M.C.(%):	17%	9%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	3	25			
% SAND:	50	43			
% FINES:	47	33			
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)			

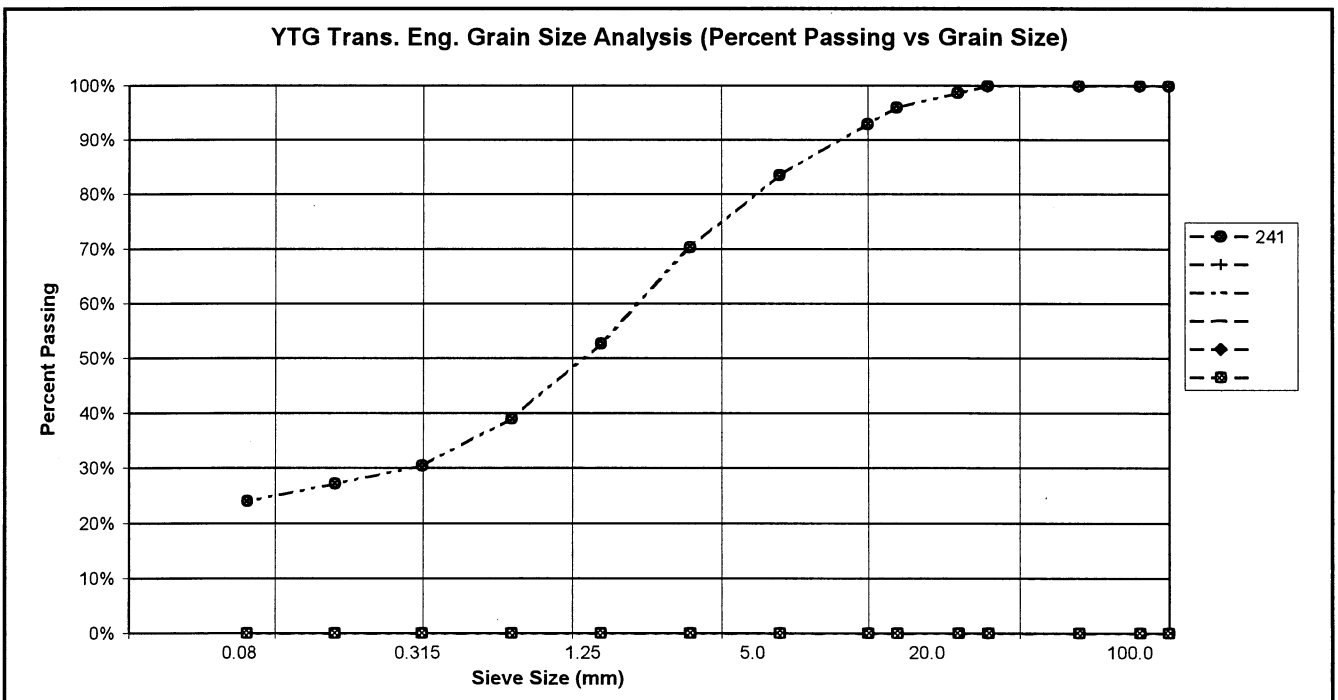


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1777+350 2M LT
 LOGGED BY: B.B.

HOLE No.: 602-148

DATE COMP: 2001/06/28

FIELD NO:	241				
LAB NO:	753				
DEPTH:	1.2-1.4				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	99%				
12.5	96%				
10.0	93%				
5.0	84%				
2.5	70%				
1.25	53%				
0.630	39%				
0.315	31%				
0.160	27%				
0.080	24%				
M.C.(%)	14%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX:	0.0				
% GRAVEL:	16				
% SAND:	60				
% FINES:	24				
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)				

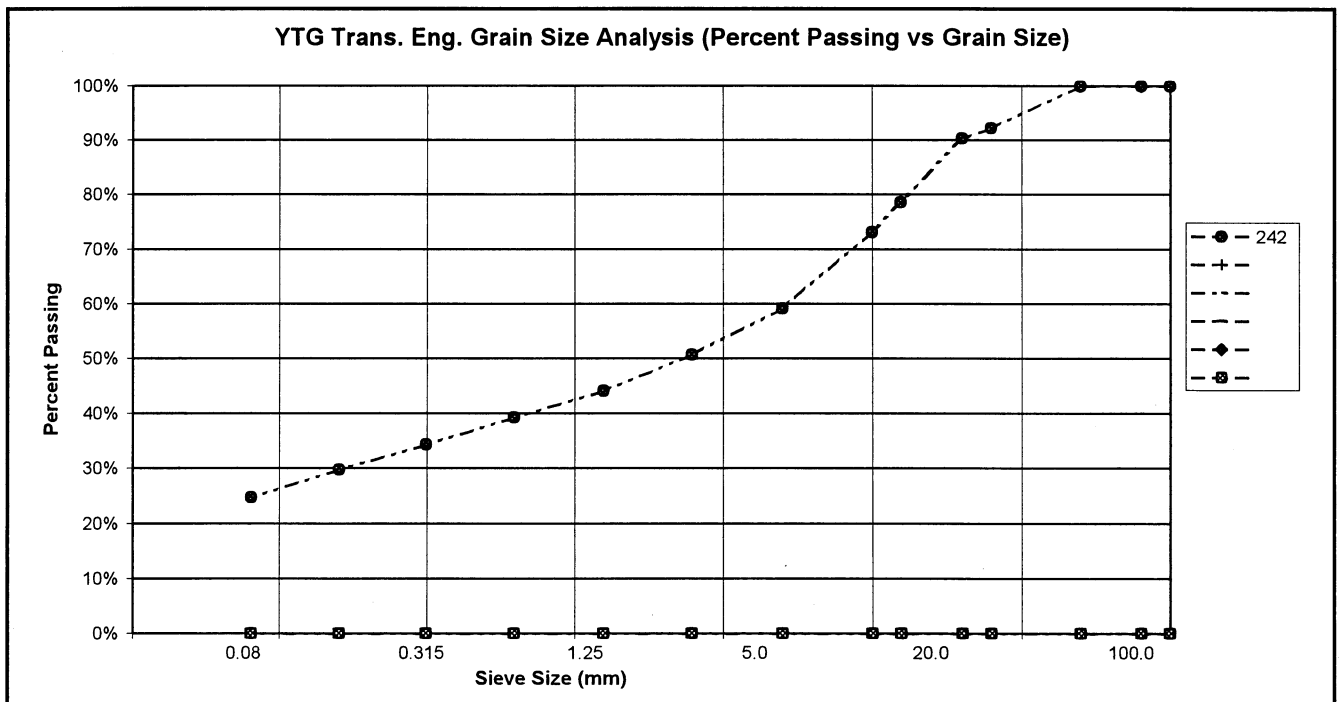


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1777+445 10M LT
 LOGGED BY: B.B.

HOLE No.: 602-149

DATE COMP: 2001/06/28

FIELD NO:	242				
LAB NO:	754				
DEPTH:	2.8-3.0				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	92%				
20.0	90%				
12.5	79%				
10.0	73%				
5.0	59%				
2.5	51%				
1.25	44%				
0.630	39%				
0.315	34%				
0.160	30%				
0.080	25%				
M.C.(%)	10%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	41				
% SAND:	34				
% FINES:	25				
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)				

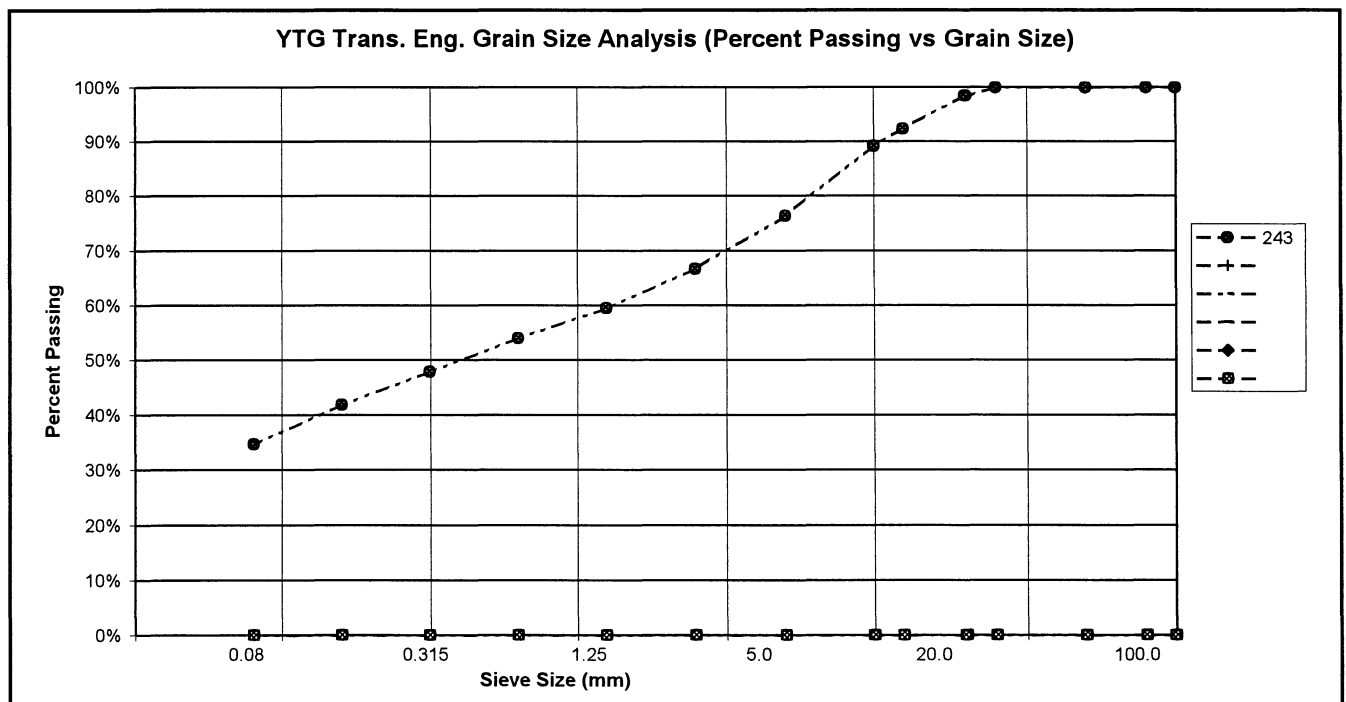


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1777+550 20M LT
 LOGGED BY: B.B.

HOLE No.: 602-150

DATE COMP: 2001/06/28

FIELD NO:	243				
LAB NO:	755				
DEPTH:	2.8-3.0				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	98%				
12.5	92%				
10.0	89%				
5.0	76%				
2.5	67%				
1.25	59%				
0.630	54%				
0.315	48%				
0.160	42%				
0.080	35%				
M.C.(%):	11%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	24				
% SAND:	42				
% FINES:	35				
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)				

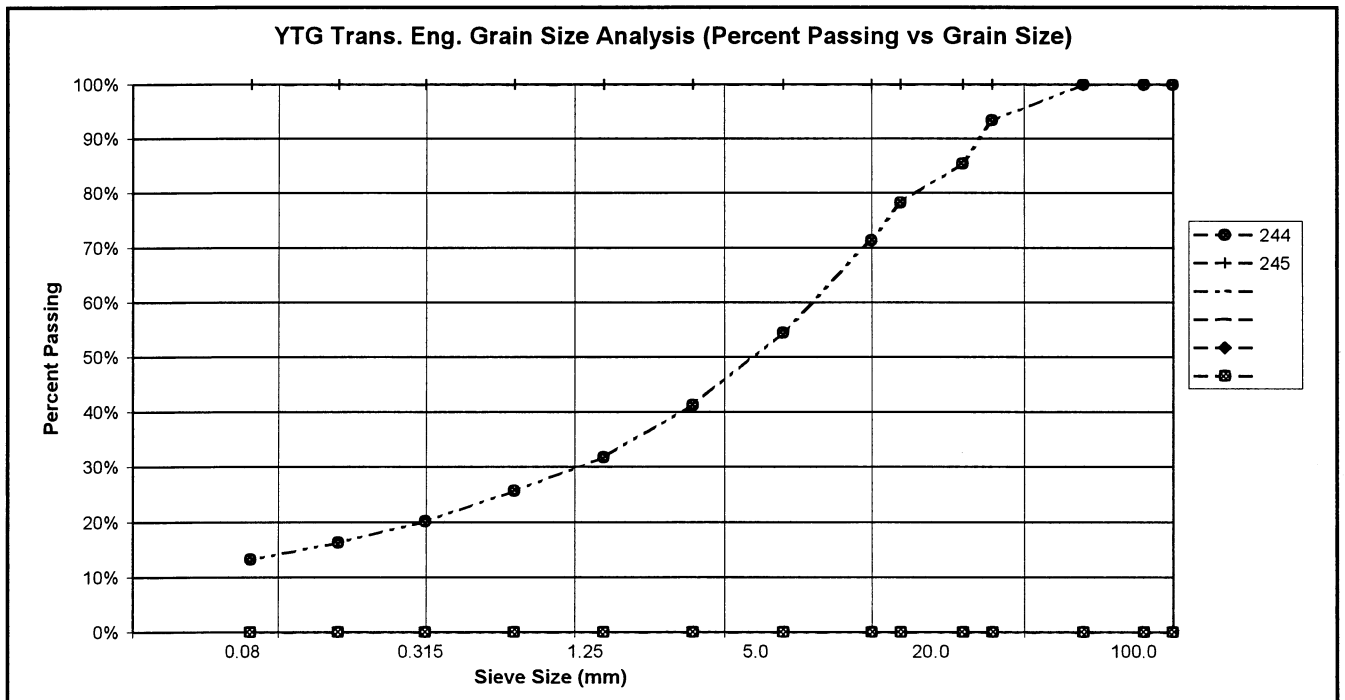


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1777+550
 LOGGED BY: B.B.

HOLE No.: 602-151

DATE COMP: 2001/06/28

FIELD NO:	244	245				
LAB NO:	756	757				
DEPTH:	1.8-2.0	LOST				
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING				
100.0	100%	100%				
80.0	100%	100%				
50.0	100%	100%				
25.0	93%	100%				
20.0	85%	100%				
12.5	78%	100%				
10.0	71%	100%				
5.0	54%	100%				
2.5	41%	100%				
1.25	32%	100%				
0.630	26%	100%				
0.315	20%	100%				
0.160	16%	100%				
0.080	13%	100%				
M.C.(%):	9%					
LIQUID LIMIT:	0.0	0.0				
PLASTIC LIMIT:	0.0	0.0				
PLASTIC INDEX.:	0.0	0.0				
% GRAVEL:	46	0				
% SAND:	41	0				
% FINES:	13	100				
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)	SILT				

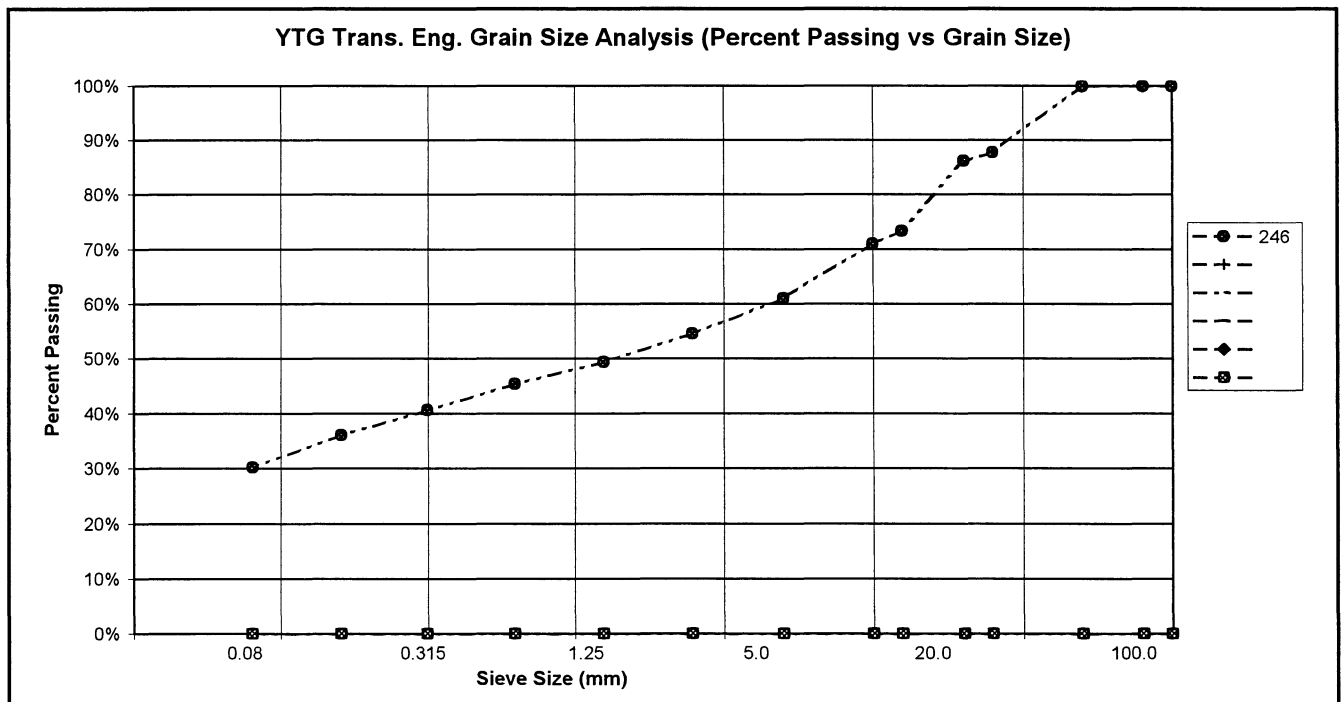


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1777+550 20M RT
 LOGGED BY: B.B.

HOLE No.: 602-152

DATE COMP: 2001/06/28

FIELD NO:	246				
LAB NO:	758				
DEPTH:	2.8-3.0				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	88%				
20.0	86%				
12.5	73%				
10.0	71%				
5.0	61%				
2.5	55%				
1.25	49%				
0.630	45%				
0.315	41%				
0.160	36%				
0.080	30%				
M.C.(%)	12%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	39				
% SAND:	31				
% FINES:	30				
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)				

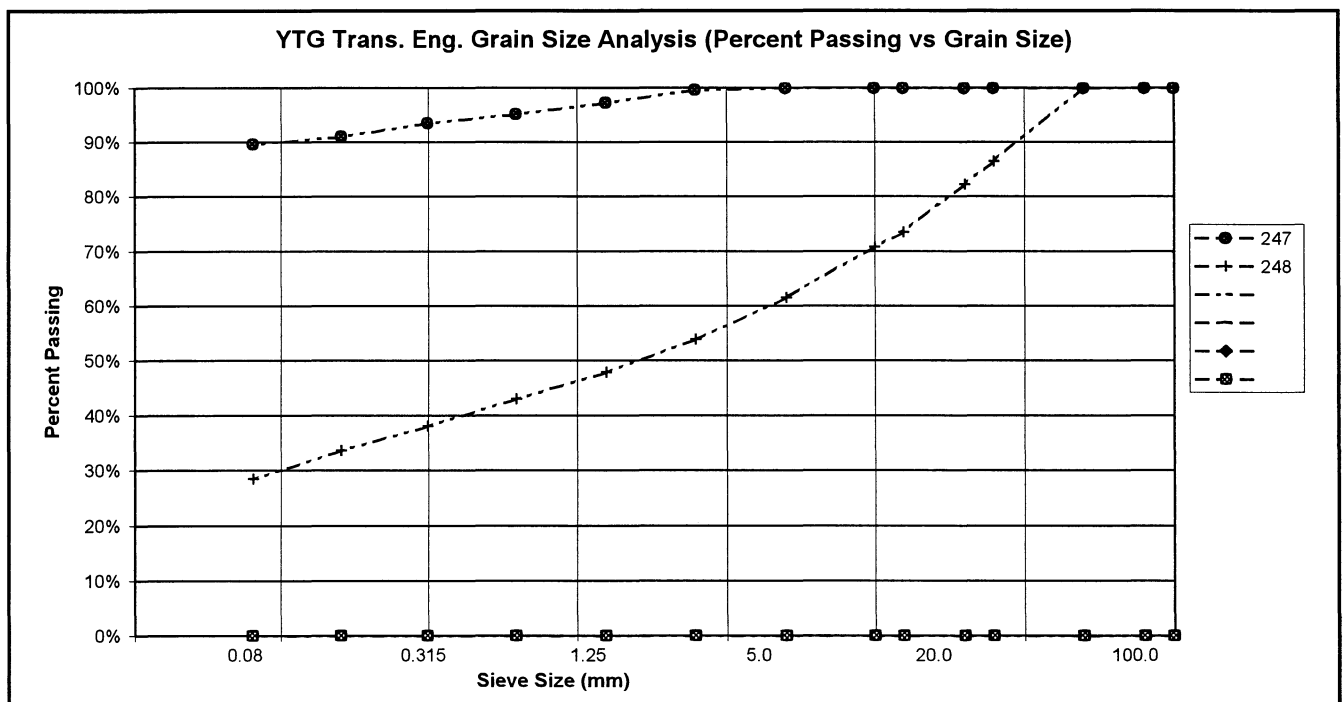


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1777+650 3M LT
 LOGGED BY: B.B.

HOLE No.: 602-153

DATE COMP: 2001/06/29

FIELD NO:	247	248			
LAB NO:	759	760			
DEPTH:	.8-1.0	3.8-4.0			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	86%			
20.0	100%	82%			
12.5	100%	73%			
10.0	100%	71%			
5.0	100%	61%			
2.5	100%	54%			
1.25	97%	48%			
0.630	95%	43%			
0.315	94%	38%			
0.160	91%	34%			
0.080	90%	29%			
M.C.(%):	123%	10%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	0	39			
% SAND:	10	33			
% FINES:	90	29			
CLASSIFICATION	SILT (ML)	SILTY GRAVEL WITH SAND (GM)			

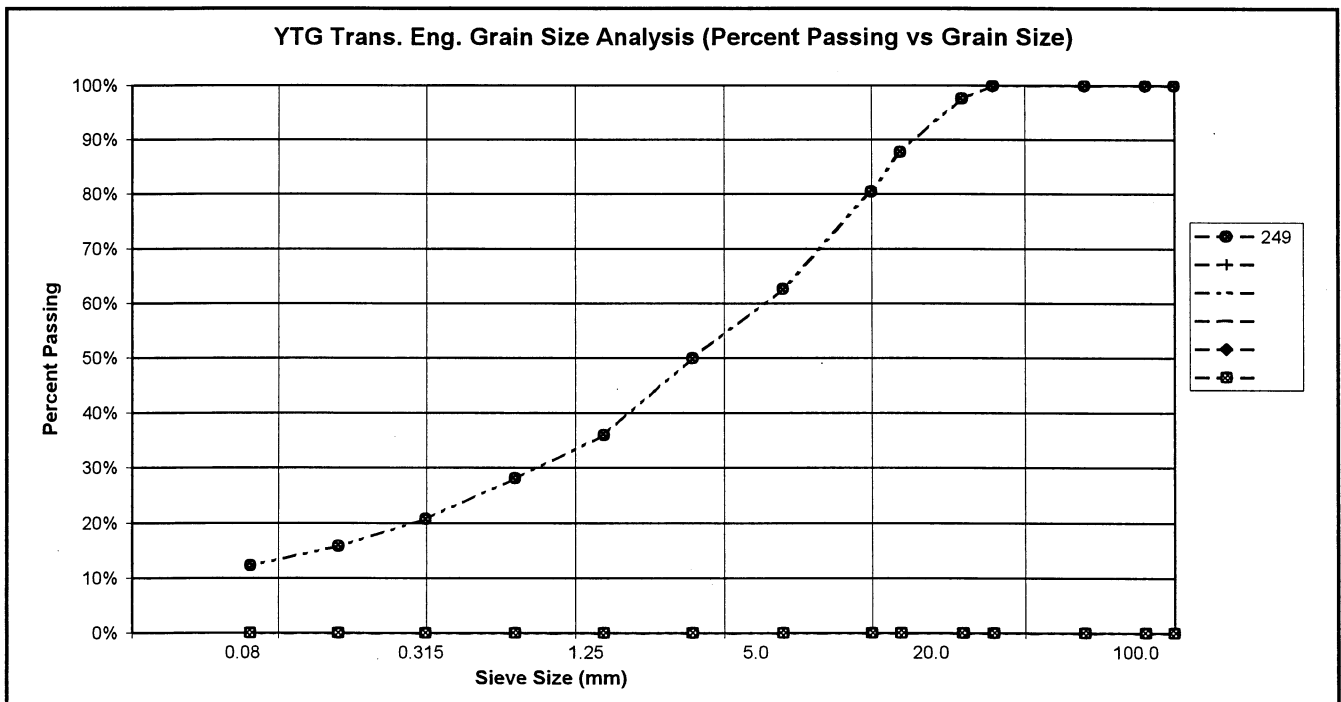


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1777+750 7M LT
 LOGGED BY: B.B.

HOLE No.: 602-154

DATE COMP: 2001/06/29

FIELD NO:	249				
LAB NO:	761				
DEPTH:	2.8-3.0				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	98%				
12.5	88%				
10.0	80%				
5.0	63%				
2.5	50%				
1.25	36%				
0.630	28%				
0.315	21%				
0.160	16%				
0.080	12%				
M.C.(%)	10%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	37				
% SAND:	50				
% FINES:	12				
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)				

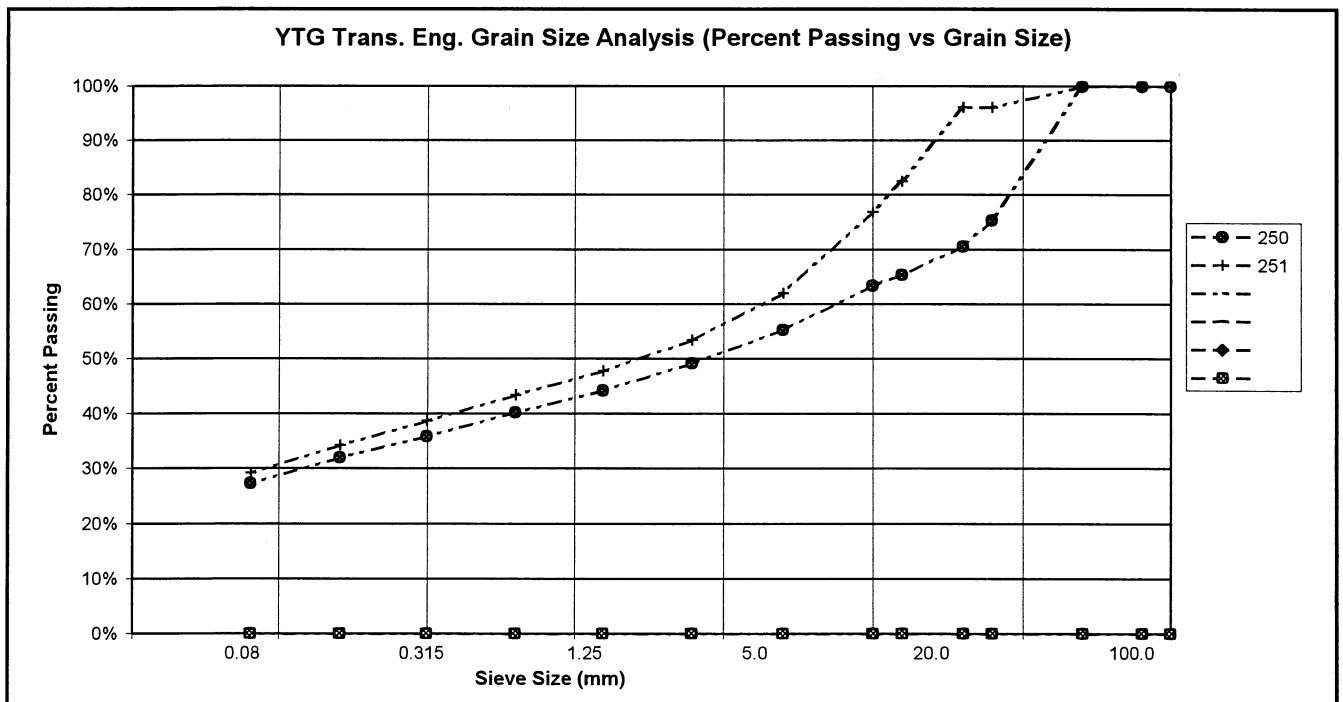


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1777+850 1M LT
 LOGGED BY: B.B.

HOLE No.: 602-155

DATE COMP: 2001/06/29

FIELD NO:	250	251			
LAB NO:	762	763			
DEPTH:	1.6-1.8	3.2-3.4			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	75%	96%			
20.0	71%	96%			
12.5	65%	83%			
10.0	63%	77%			
5.0	55%	62%			
2.5	49%	53%			
1.25	44%	48%			
0.630	40%	43%			
0.315	36%	39%			
0.160	32%	34%			
0.080	27%	29%			
M.C.(%)	12%	11%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	45	38			
% SAND:	28	33			
% FINES:	27	29			
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)	SILTY GRAVEL WITH SAND (GM)			

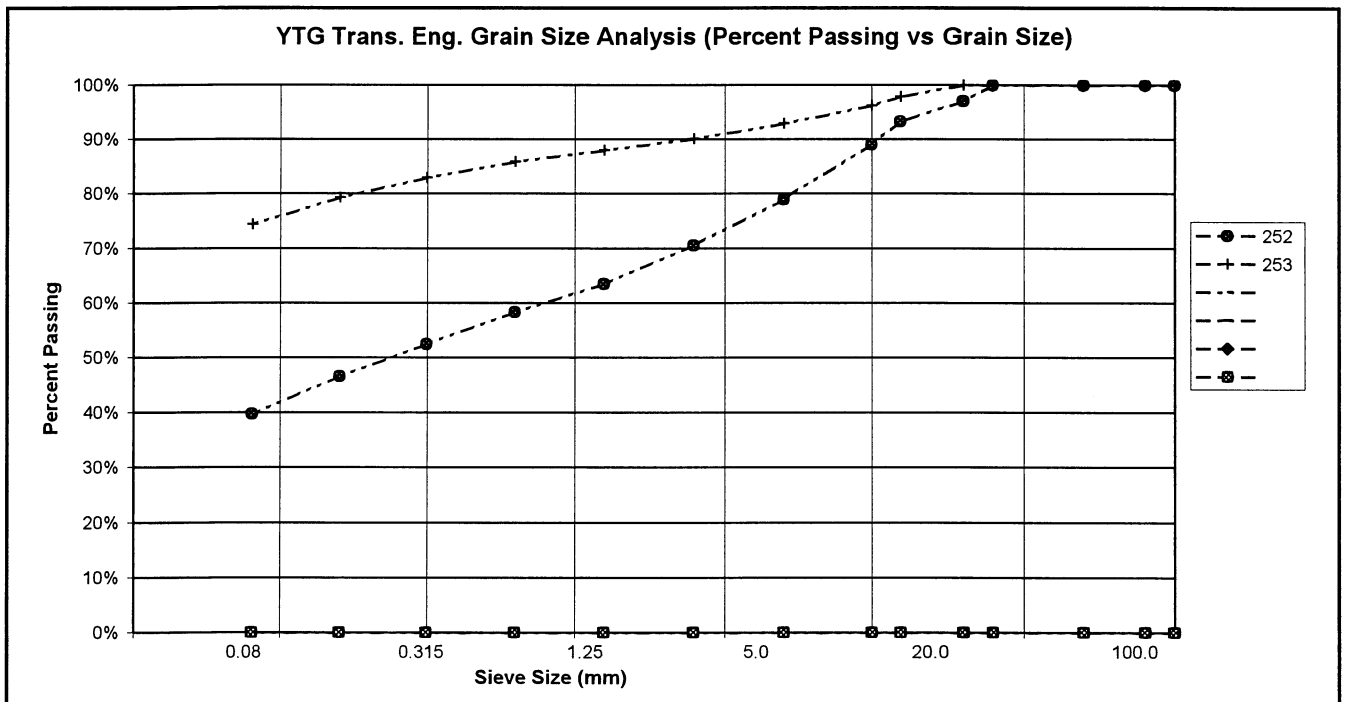


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1777+950
 LOGGED BY: B.B.

HOLE No.: 602-156

DATE COMP: 2001/06/29

FIELD NO:	252	253			
LAB NO:	764	765			
DEPTH:	2.4-2.6	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	97%	100%			
12.5	93%	98%			
10.0	89%	96%			
5.0	79%	93%			
2.5	70%	90%			
1.25	63%	88%			
0.630	58%	86%			
0.315	52%	83%			
0.160	47%	79%			
0.080	40%	74%			
M.C.(%):	18%	18%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	21	7			
% SAND:	39	19			
% FINES:	40	74			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILT WITH SAND (ML)			

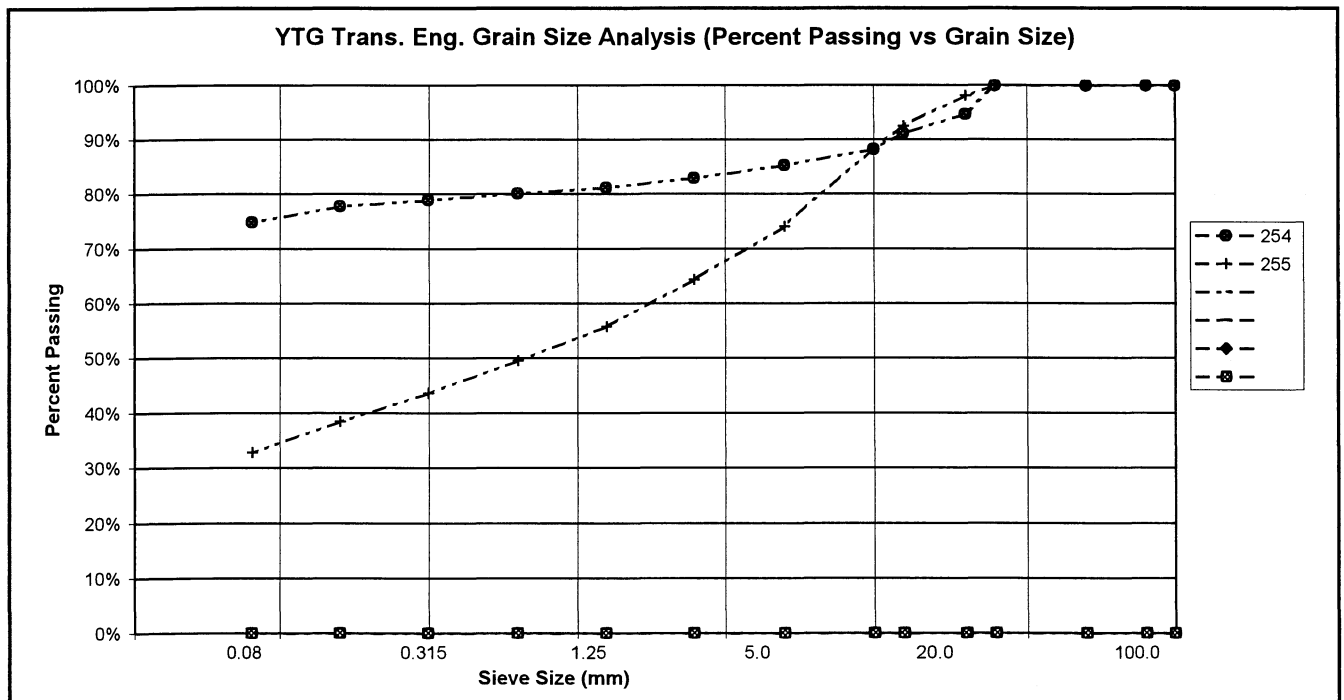


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1778+050
 LOGGED BY: B.B.

HOLE No.: 602-157

DATE COMP: 2001/06/29

FIELD NO:	254	255			
LAB NO:	766	767			
DEPTH:	1.3-1.5	2.8-3.0			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	95%	98%			
12.5	91%	92%			
10.0	88%	88%			
5.0	85%	74%			
2.5	83%	64%			
1.25	81%	56%			
0.630	80%	50%			
0.315	79%	44%			
0.160	78%	39%			
0.080	75%	33%			
M.C.(%):	83%	8%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	15	26			
% SAND:	10	41			
% FINES:	75	33			
CLASSIFICATION	SILT WITH GRAVEL (ML)	SILTY SAND WITH GRAVEL (SM)			

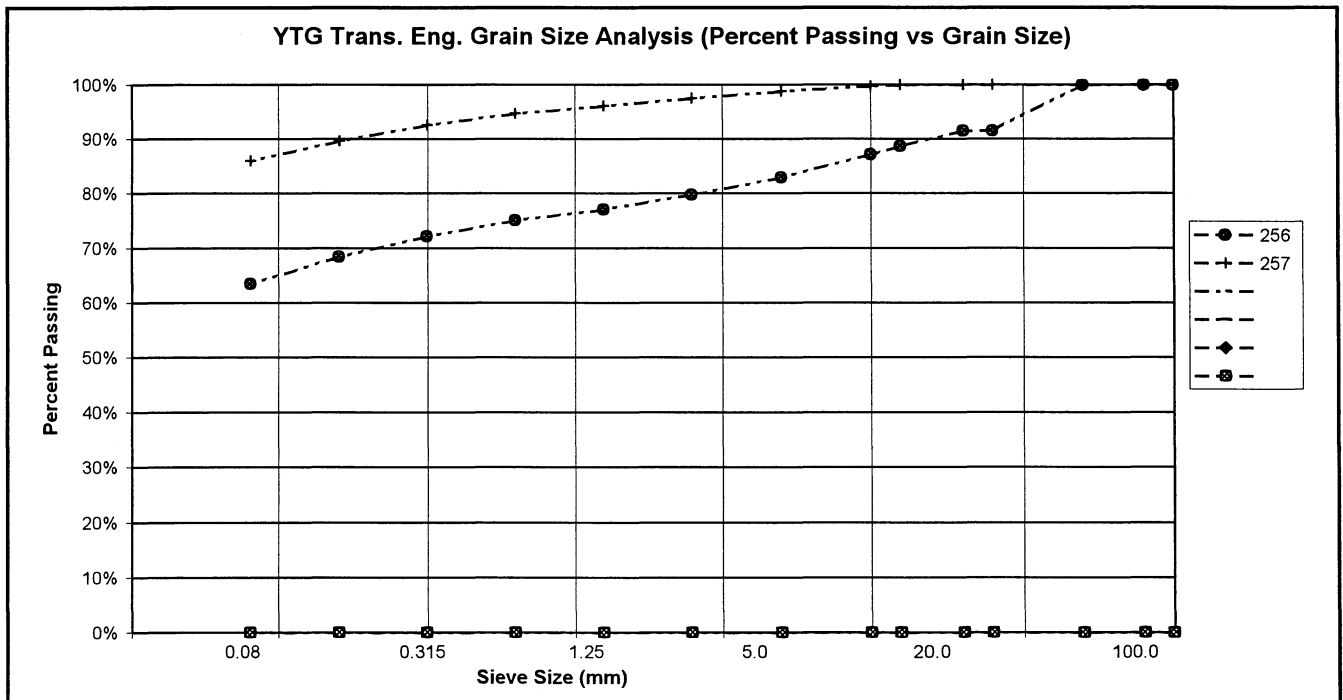


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1778+150 2M LT
 LOGGED BY: B.B.

HOLE No.: 602-158

DATE COMP: 2001/06/29

FIELD NO:	256	257				
LAB NO:	768	769				
DEPTH:	1.8-2.0	4.3-4.5				
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING				
100.0	100%	100%				
80.0	100%	100%				
50.0	100%	100%				
25.0	92%	100%				
20.0	92%	100%				
12.5	89%	100%				
10.0	87%	100%				
5.0	83%	99%				
2.5	80%	98%				
1.25	77%	96%				
0.630	75%	95%				
0.315	72%	93%				
0.160	68%	90%				
0.080	63%	86%				
M.C.(%):	37%	25%				
LIQUID LIMIT:	0.0	0.0				
PLASTIC LIMIT:	0.0	0.0				
PLASTIC INDEX:	0.0	0.0				
% GRAVEL:	17	1				
% SAND:	19	13				
% FINES:	63	86				
CLASSIFICATION	SANDY SILT WITH GRAVEL (ML)	SILT (ML)				

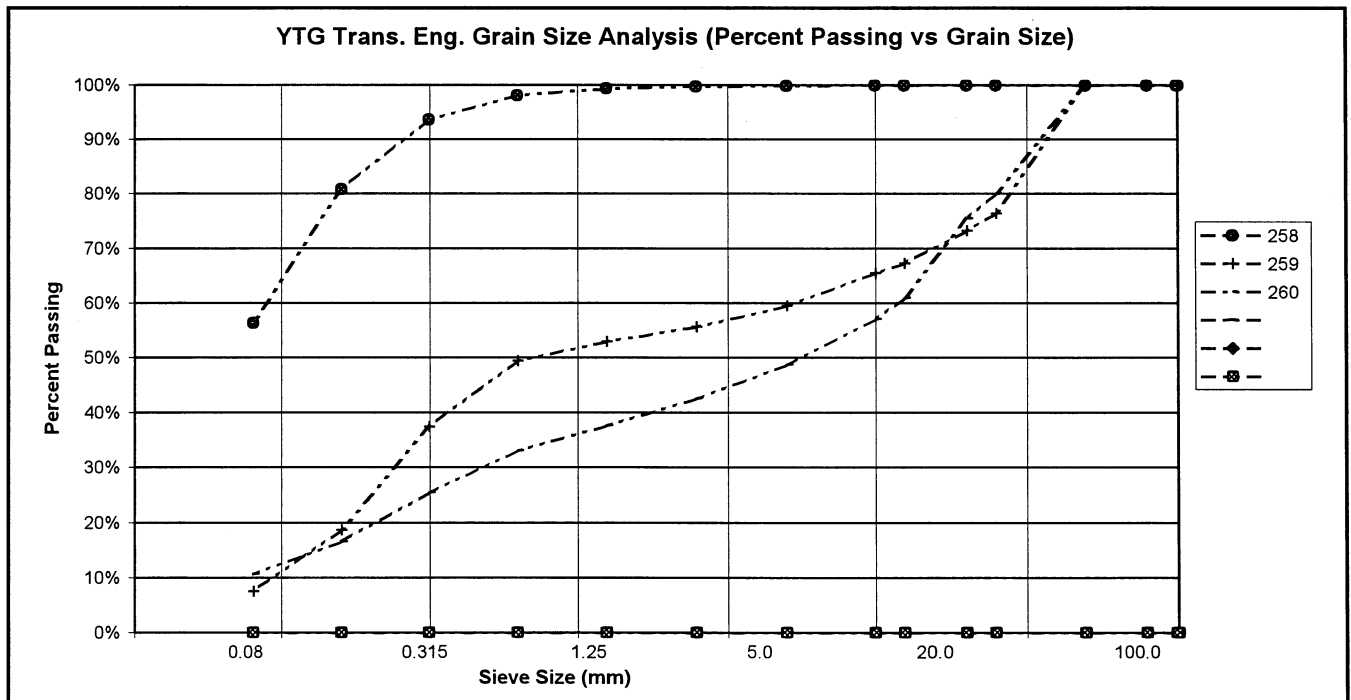


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1778+250 2M LT
 LOGGED BY: B.B.

HOLE No.: 602-159

DATE COMP: 2001/06/29

FIELD NO:	258	259	260		
LAB NO:	770	771	772		
DEPTH:	1.1-1.2	2.8-3.0	4.2-4.4		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	76%	80%		
20.0	100%	73%	75%		
12.5	100%	67%	61%		
10.0	100%	65%	57%		
5.0	100%	60%	49%		
2.5	100%	56%	43%		
1.25	99%	53%	38%		
0.630	98%	49%	33%		
0.315	94%	37%	25%		
0.160	81%	19%	16%		
0.080	56%	8%	11%		
M.C.(%):	18%	6%	6%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	0	40	51		
% SAND:	44	52	38		
% FINES:	56	8	11		
CLASSIFICATION	SANDY SILT (ML)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		

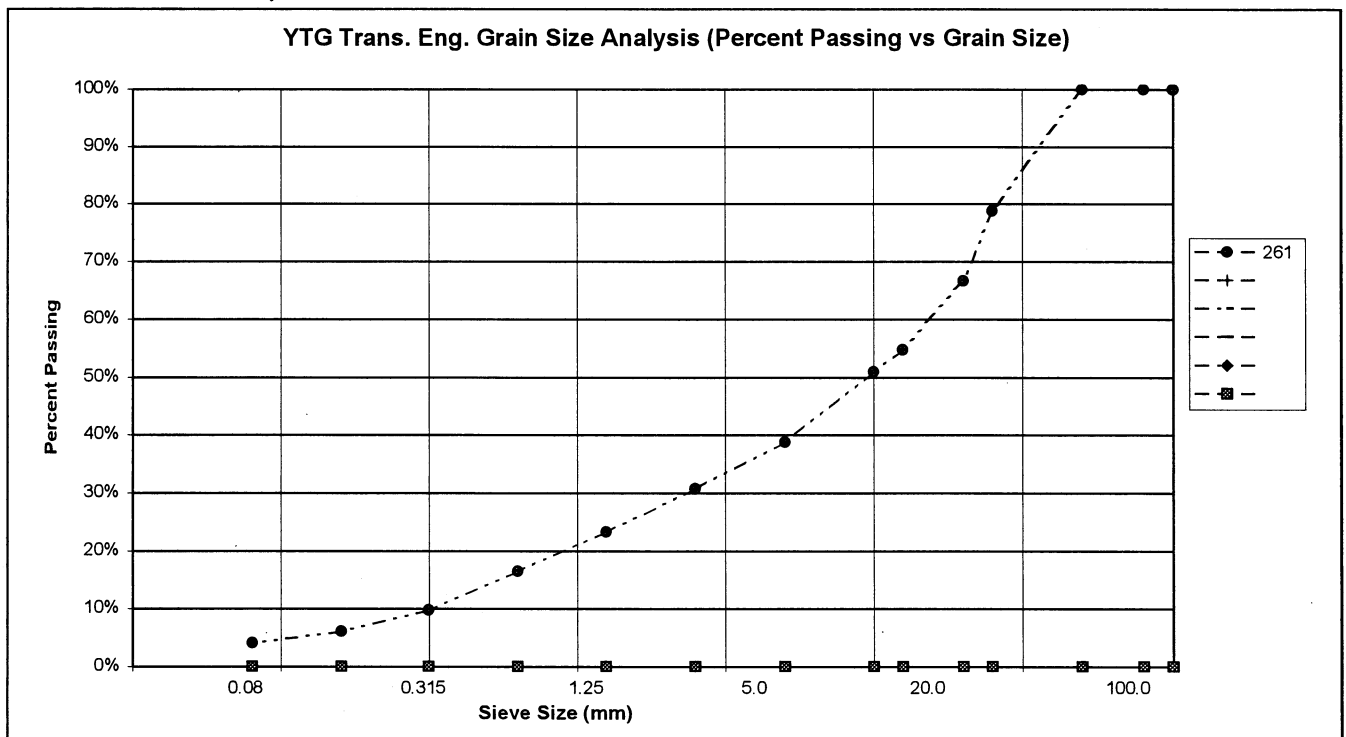


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1778+450 35M LT
 LOGGED BY: B.B.

HOLE No.: 604-160

DATE COMP: 2001/07/04

FIELD NO:	261				
LAB NO:	830				
DEPTH:	1.1-1.3				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	79%				
20.0	67%				
12.5	55%				
10.0	51%				
5.0	39%				
2.5	31%				
1.25	23%				
0.630	17%				
0.315	10%				
0.160	6%				
0.080	4%				
M.C.(%):	3%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	61				
% SAND:	35				
% FINES:	4				
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)				

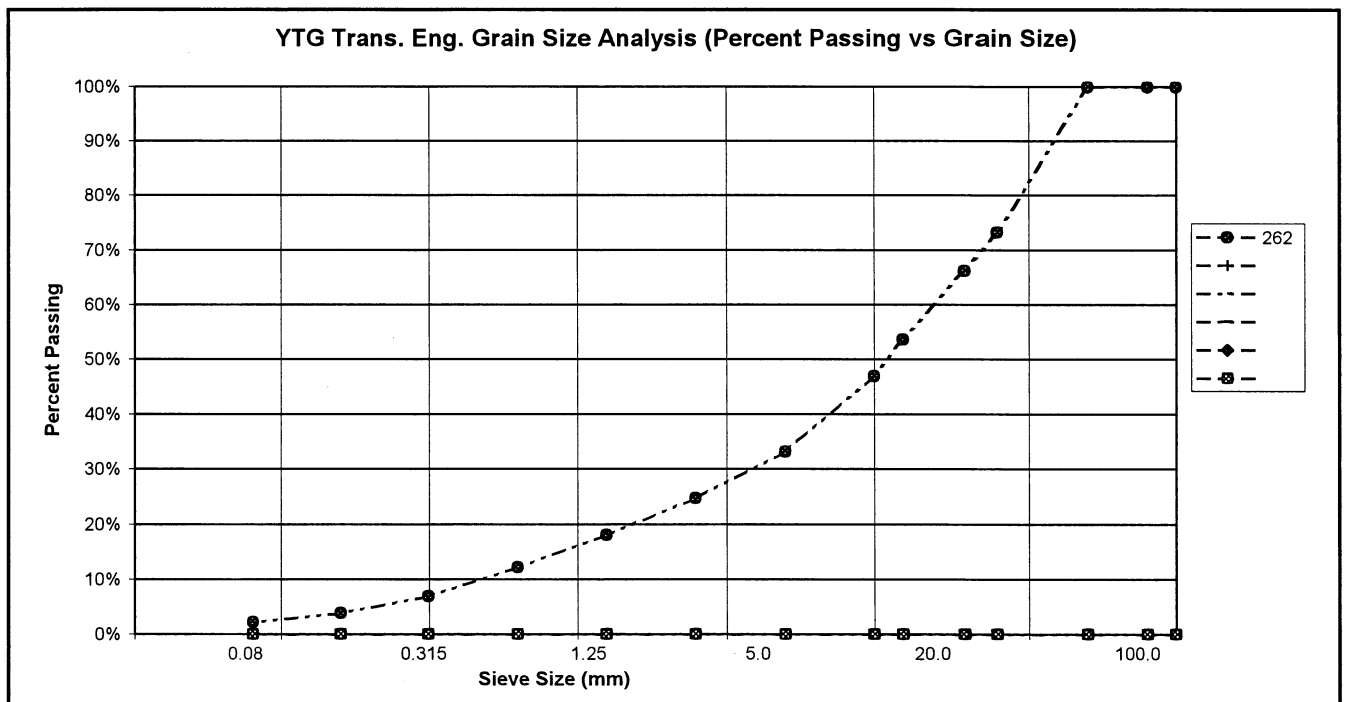


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1778+350 35M LT
 LOGGED BY: B.B.

HOLE No.: 604-161

DATE COMP: 2001/07/04

FIELD NO:	262				
LAB NO:	831				
DEPTH:	1.1-1.3				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	73%				
20.0	66%				
12.5	54%				
10.0	47%				
5.0	33%				
2.5	25%				
1.25	18%				
0.630	12%				
0.315	7%				
0.160	4%				
0.080	2%				
M.C.(%):	3%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	67				
% SAND:	31				
% FINES:	2				
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)				

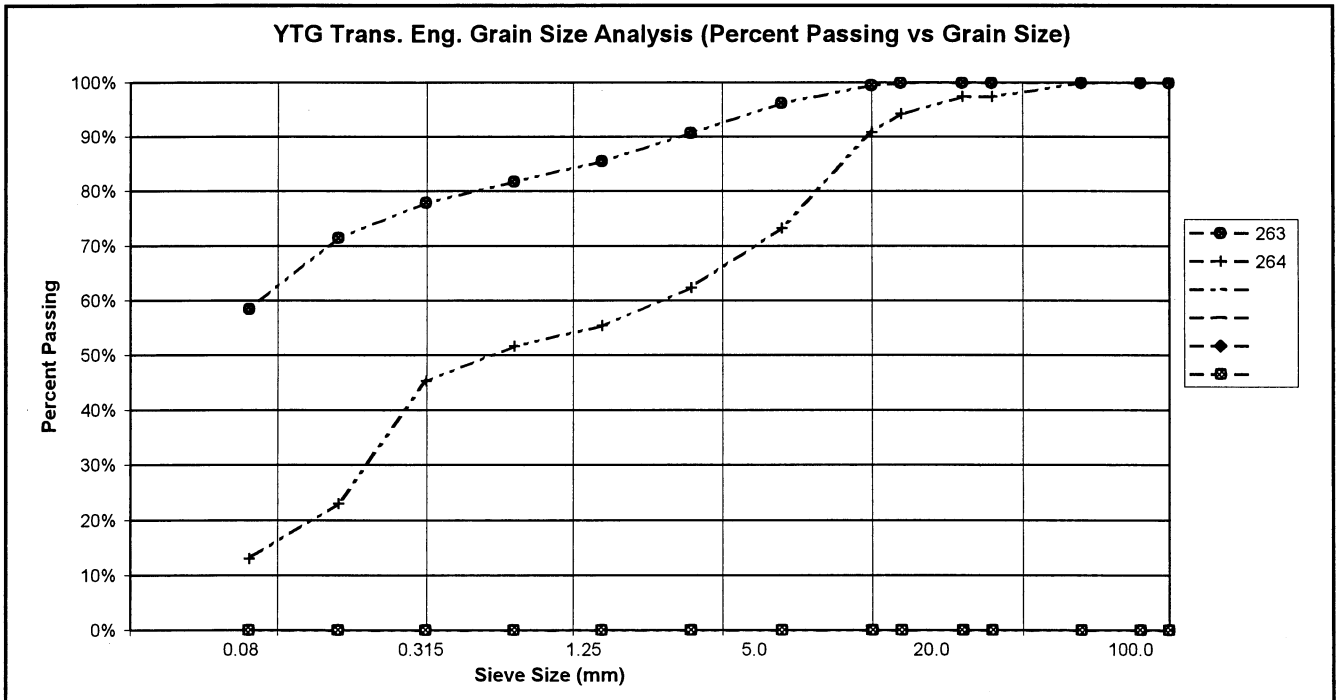


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1778+250 35M LT
 LOGGED BY: B.B.

HOLE No.: 604-162

DATE COMP: 2001/07/04

FIELD NO:	263	264			
LAB NO:	832	833			
DEPTH:	1.1-1.3	1.8-2.0			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	97%			
20.0	100%	97%			
12.5	100%	94%			
10.0	100%	91%			
5.0	96%	73%			
2.5	91%	62%			
1.25	86%	55%			
0.630	82%	52%			
0.315	78%	45%			
0.160	72%	23%			
0.080	58%	13%			
M.C.(%)	38%	12%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	4	27			
% SAND:	38	60			
% FINES:	58	13			
CLASSIFICATION	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)			

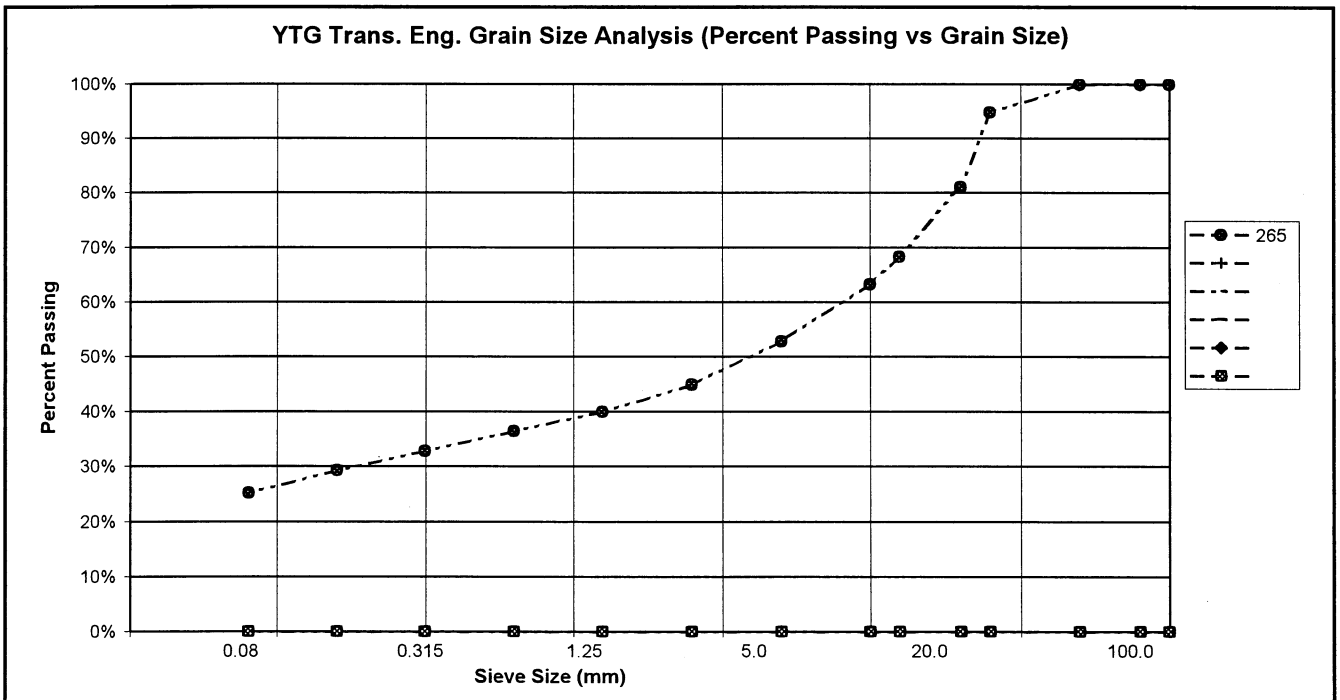


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1778+150 35M LT
 LOGGED BY: B.B.

HOLE No.: 604-163

DATE COMP: 2001/07/04

FIELD NO:	265				
LAB NO:	834				
DEPTH:	2.8-3.0				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	95%				
20.0	81%				
12.5	68%				
10.0	63%				
5.0	53%				
2.5	45%				
1.25	40%				
0.630	37%				
0.315	33%				
0.160	29%				
0.080	25%				
M.C.(%):	10%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	47				
% SAND:	28				
% FINES:	25				
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)				

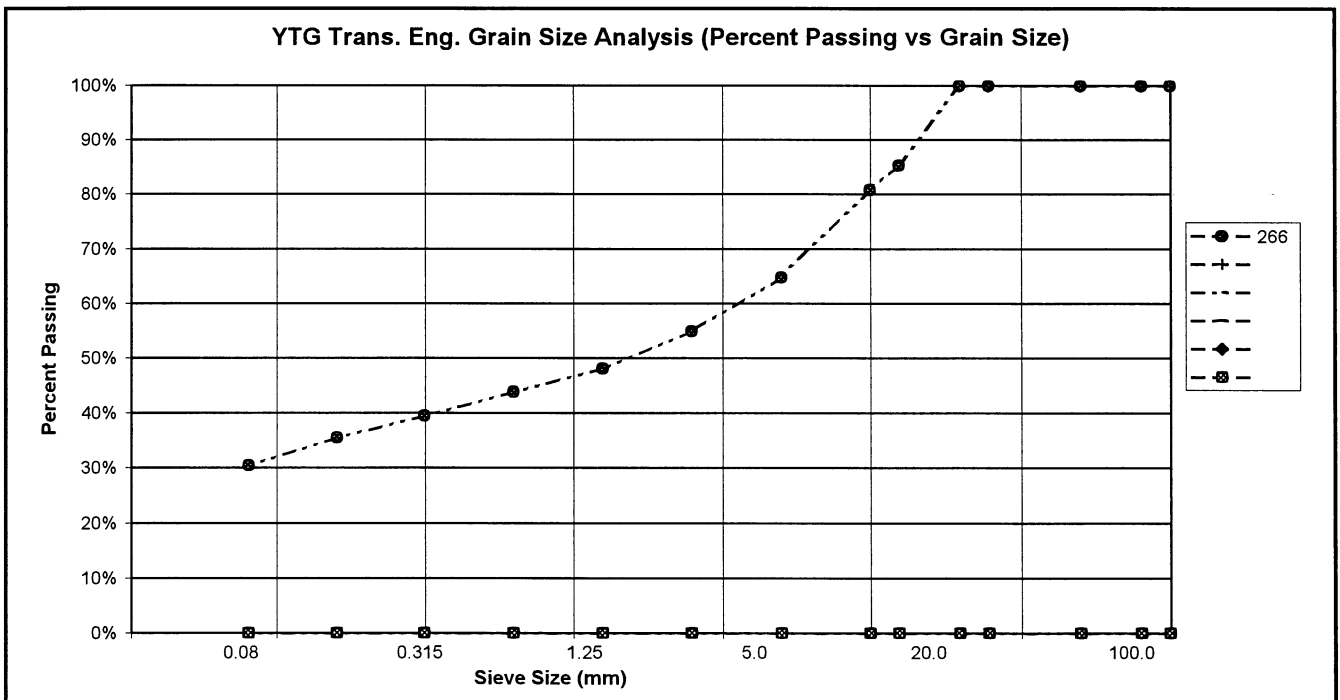


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1778+050 35M LT
 LOGGED BY: B.B.

HOLE No.: 604-164

DATE COMP: 2001/07/04

FIELD NO:	266				
LAB NO:	835				
DEPTH:	2.8-3.0				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	100%				
12.5	85%				
10.0	81%				
5.0	65%				
2.5	55%				
1.25	48%				
0.630	44%				
0.315	40%				
0.160	36%				
0.080	31%				
M.C.(%):	12%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	35				
% SAND:	34				
% FINES:	31				
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)				

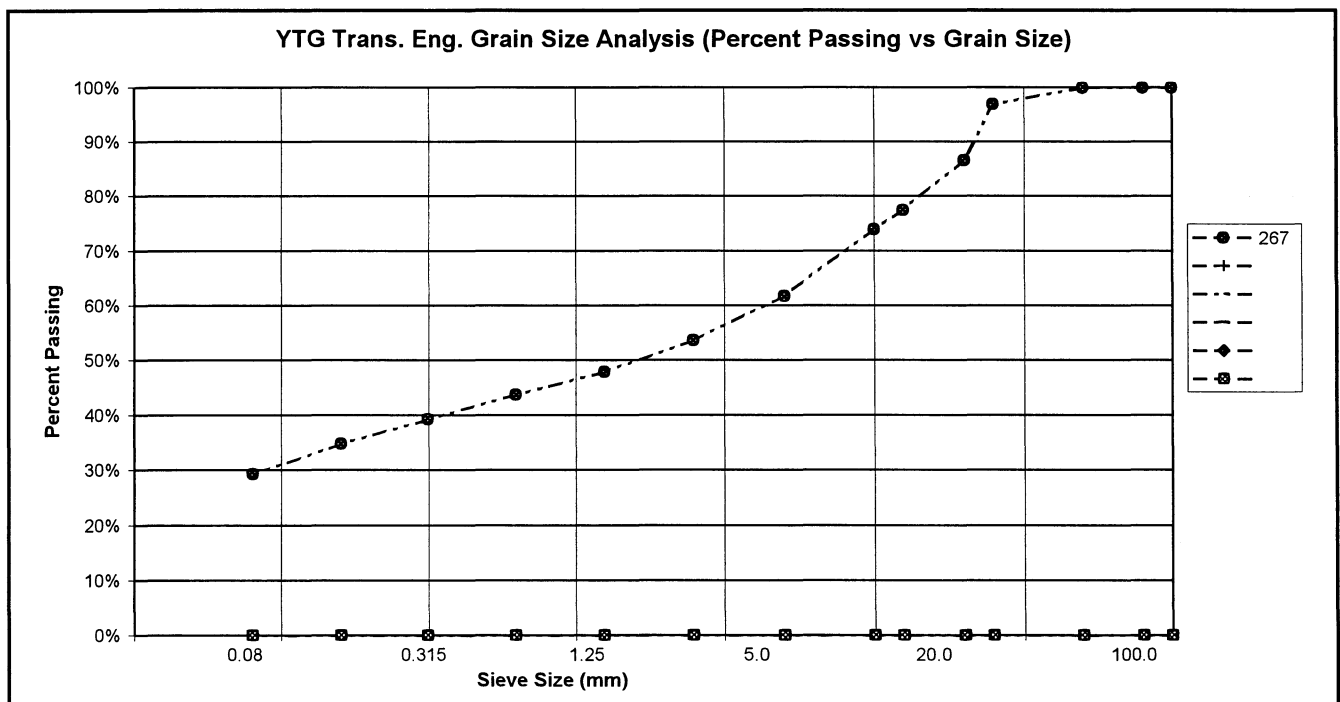


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1777+950 35M LT
 LOGGED BY: B.B.

HOLE No.: 604-165

DATE COMP: 2001/07/04

FIELD NO:	267				
LAB NO:	836				
DEPTH:	2.8-3.0				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	97%				
20.0	87%				
12.5	77%				
10.0	74%				
5.0	62%				
2.5	54%				
1.25	48%				
0.630	44%				
0.315	39%				
0.160	35%				
0.080	29%				
M.C.(%):	16%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX:	0.0				
% GRAVEL:	38				
% SAND:	32				
% FINES:	29				
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)				

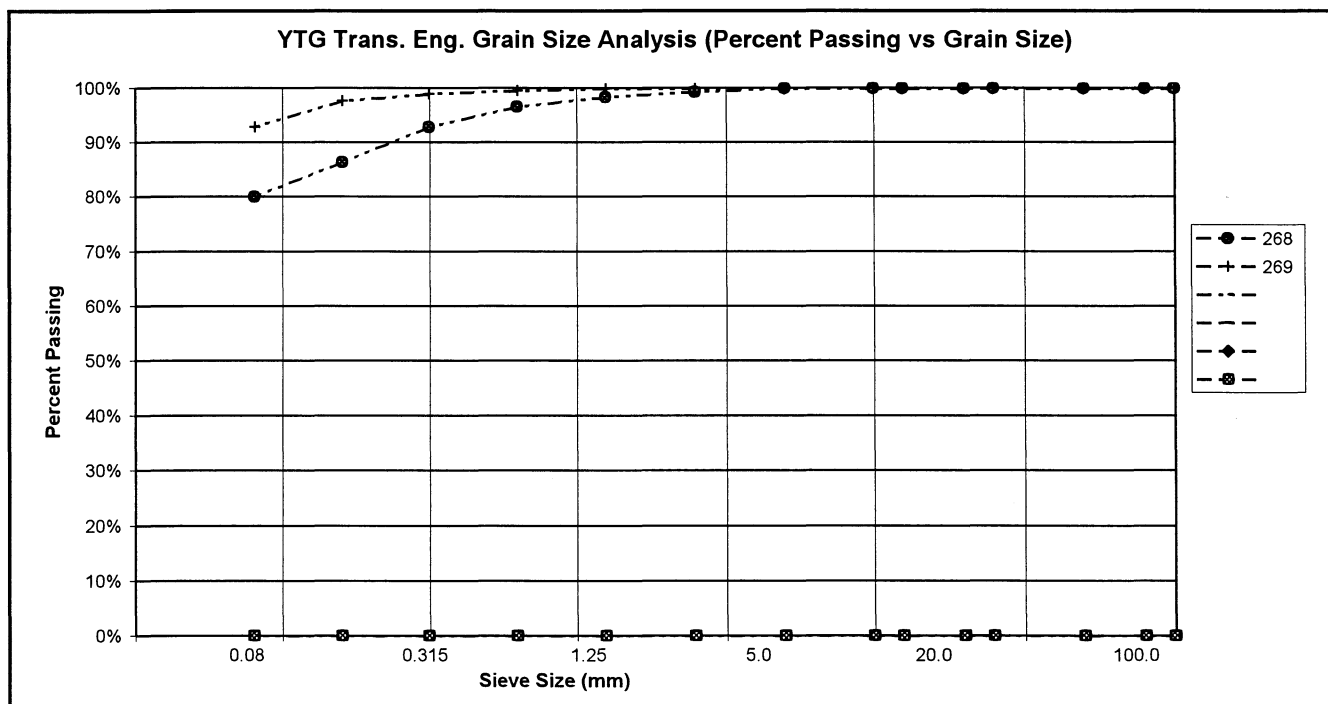


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1777+750 35M LT
 LOGGED BY: B.B.

HOLE No.: 604-167

DATE COMP: 2001/07/04

FIELD NO:	268	269			
LAB NO:	837	838			
DEPTH:	1.1-1.3	2.6-2.8			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	100%			
12.5	100%	100%			
10.0	100%	100%			
5.0	100%	100%			
2.5	99%	100%			
1.25	98%	100%			
0.630	97%	100%			
0.315	93%	99%			
0.160	86%	98%			
0.080	80%	93%			
M.C.(%):	75%	122%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	0	0			
% SAND:	20	7			
% FINES:	80	93			
CLASSIFICATION	SILT WITH SAND (ML)	SILT (ML)			

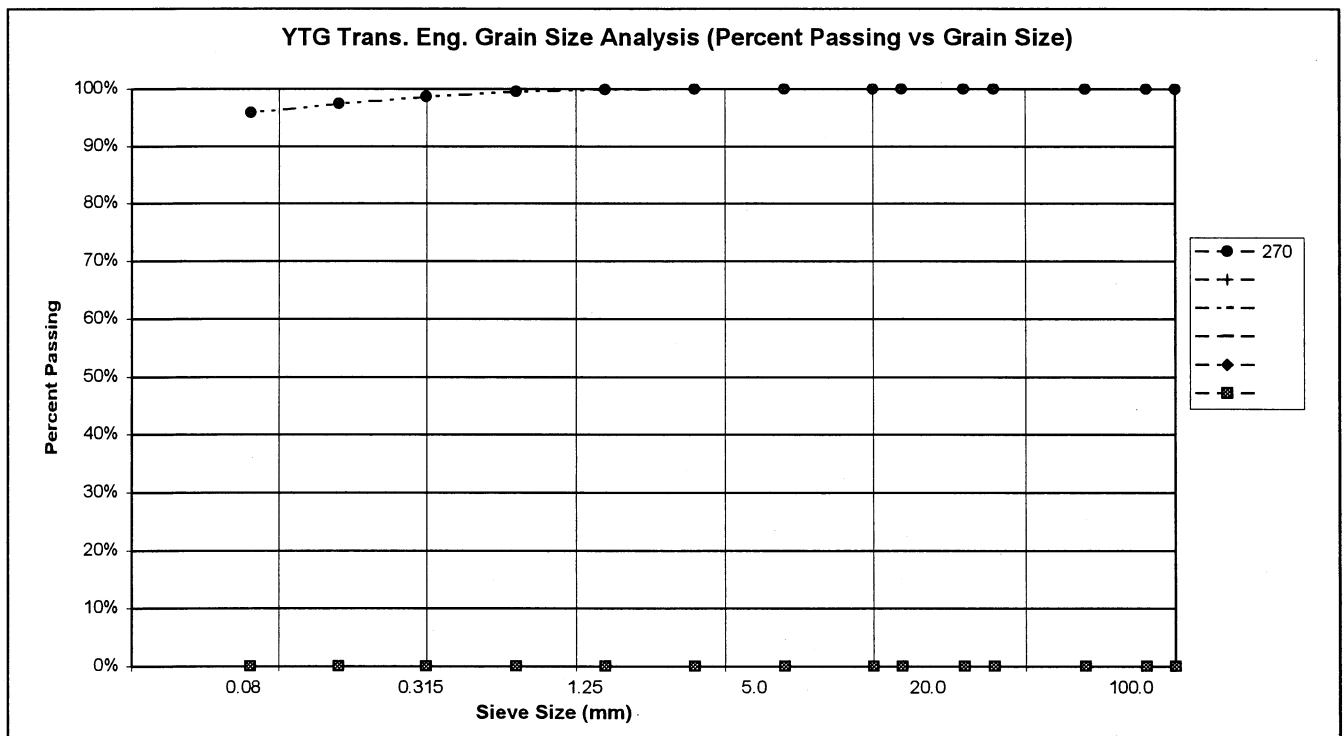


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1777+650 35M LT
 LOGGED BY: B.B.

HOLE No.: 604-168

DATE COMP: 2001/07/05

FIELD NO:	270				
LAB NO:	839				
DEPTH:	1.2-1.3				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	100%				
12.5	100%				
10.0	100%				
5.0	100%				
2.5	100%				
1.25	100%				
0.630	100%				
0.315	99%				
0.160	97%				
0.080	96%				
M.C.(%):	93%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	0				
% SAND:	4				
% FINES:	96				
CLASSIFICATION	SILT (ML)				

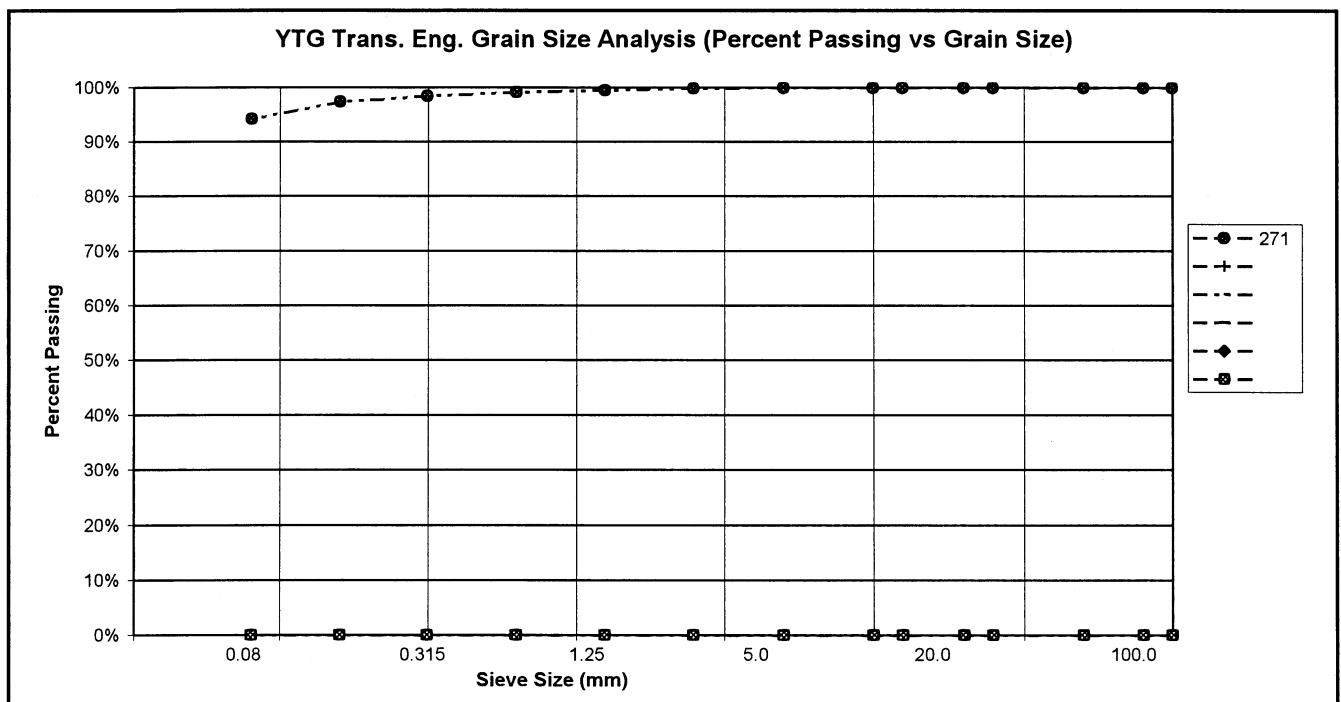


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1777+525 35M LT
 LOGGED BY: B.B.

HOLE No.: 604-169

DATE COMP: 2001/07/05

FIELD NO:	271				
LAB NO:	840				
DEPTH:	1.0-1.2				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	100%				
12.5	100%				
10.0	100%				
5.0	100%				
2.5	100%				
1.25	100%				
0.630	99%				
0.315	99%				
0.160	97%				
0.080	94%				
M.C.(%):	39%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX:	0.0				
% GRAVEL:	0				
% SAND:	6				
% FINES:	94				
CLASSIFICATION	SILT (ML)				

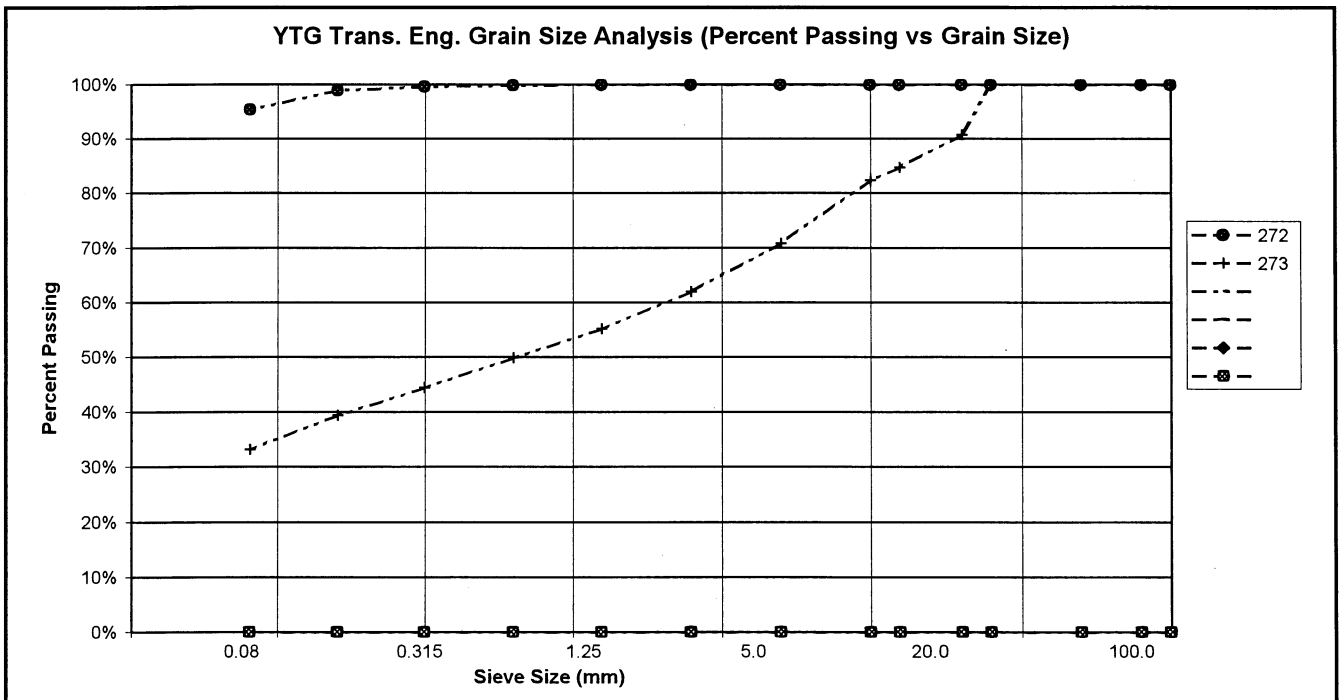


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1777+425 35M LT
 LOGGED BY: B.B.

HOLE No.: 604-170

DATE COMP: 2001/07/05

FIELD NO:	272	273			
LAB NO:	841	842			
DEPTH:	1.2-1.3	2.3-2.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	91%			
12.5	100%	85%			
10.0	100%	82%			
5.0	100%	71%			
2.5	100%	62%			
1.25	100%	55%			
0.630	100%	50%			
0.315	100%	45%			
0.160	99%	39%			
0.080	95%	33%			
M.C.(%):	48%	17%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	0	29			
% SAND:	5	38			
% FINES:	95	33			
CLASSIFICATION	SILT (ML)	SILTY SAND WITH GRAVEL (SM)			

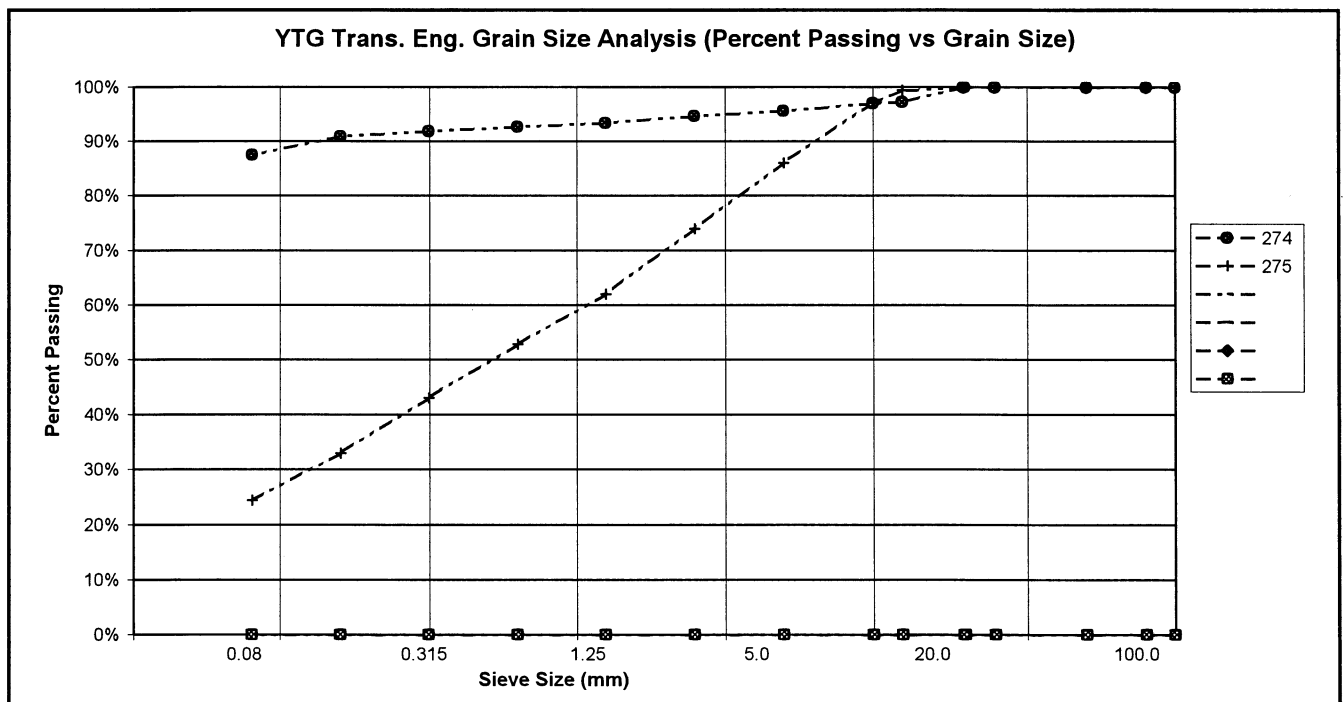


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1777+325 35M LT
 LOGGED BY: B.B.

HOLE No.: 604-171

DATE COMP: 2001/07/05

FIELD NO:	274	275			
LAB NO:	843	844			
DEPTH:	1.1-1.3	2.6-2.7			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	100%			
12.5	97%	99%			
10.0	97%	97%			
5.0	96%	86%			
2.5	95%	74%			
1.25	93%	62%			
0.630	93%	53%			
0.315	92%	43%			
0.160	91%	33%			
0.080	88%	24%			
M.C.(%):	32%	12%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	4	14			
% SAND:	8	62			
% FINES:	88	24			
CLASSIFICATION	SILT (ML)	SILTY SAND (SM)			

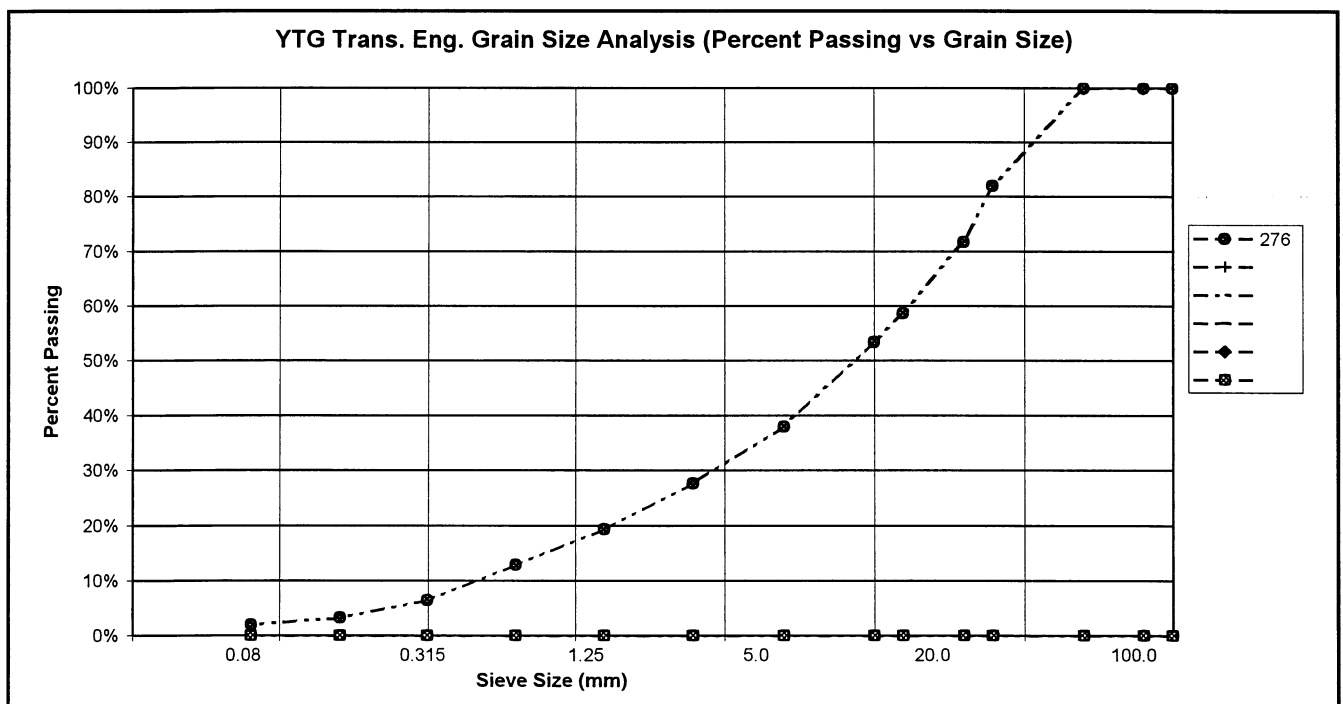


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1777+550 35M LT
 LOGGED BY: B.B.

HOLE No.: 604-172

DATE COMP: 2001/07/05

FIELD NO:	276				
LAB NO:	845				
DEPTH:	1.1-1.3				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	82%				
20.0	72%				
12.5	59%				
10.0	53%				
5.0	38%				
2.5	28%				
1.25	19%				
0.630	13%				
0.315	6%				
0.160	3%				
0.080	2%				
M.C.(%):	2%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	62				
% SAND:	36				
% FINES:	2				
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)				

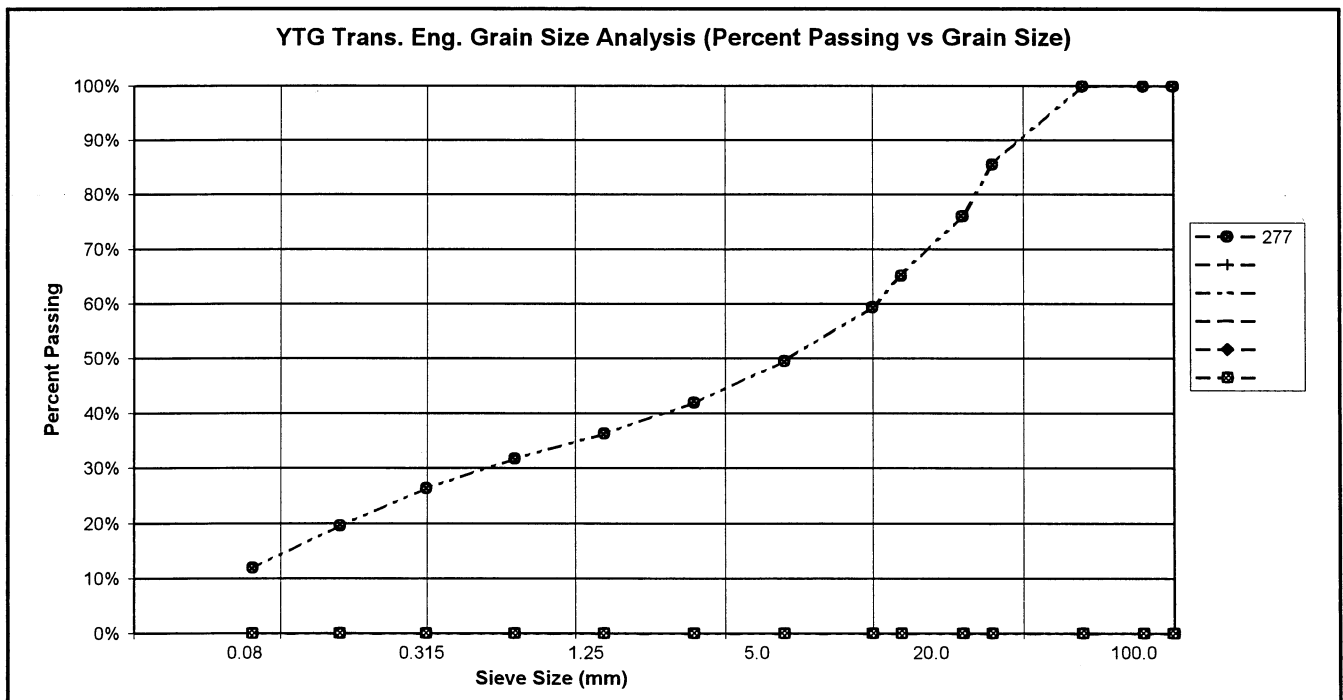


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1778+650 35M LT
 LOGGED BY: B.B.

HOLE No.: 604-173

DATE COMP: 2001/07/05

FIELD NO:	277				
LAB NO:	846				
DEPTH:	1.0-1.1				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	86%				
20.0	76%				
12.5	65%				
10.0	59%				
5.0	49%				
2.5	42%				
1.25	36%				
0.630	32%				
0.315	26%				
0.160	20%				
0.080	12%				
M.C.(%):	6%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	51				
% SAND:	38				
% FINES:	12				
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)				

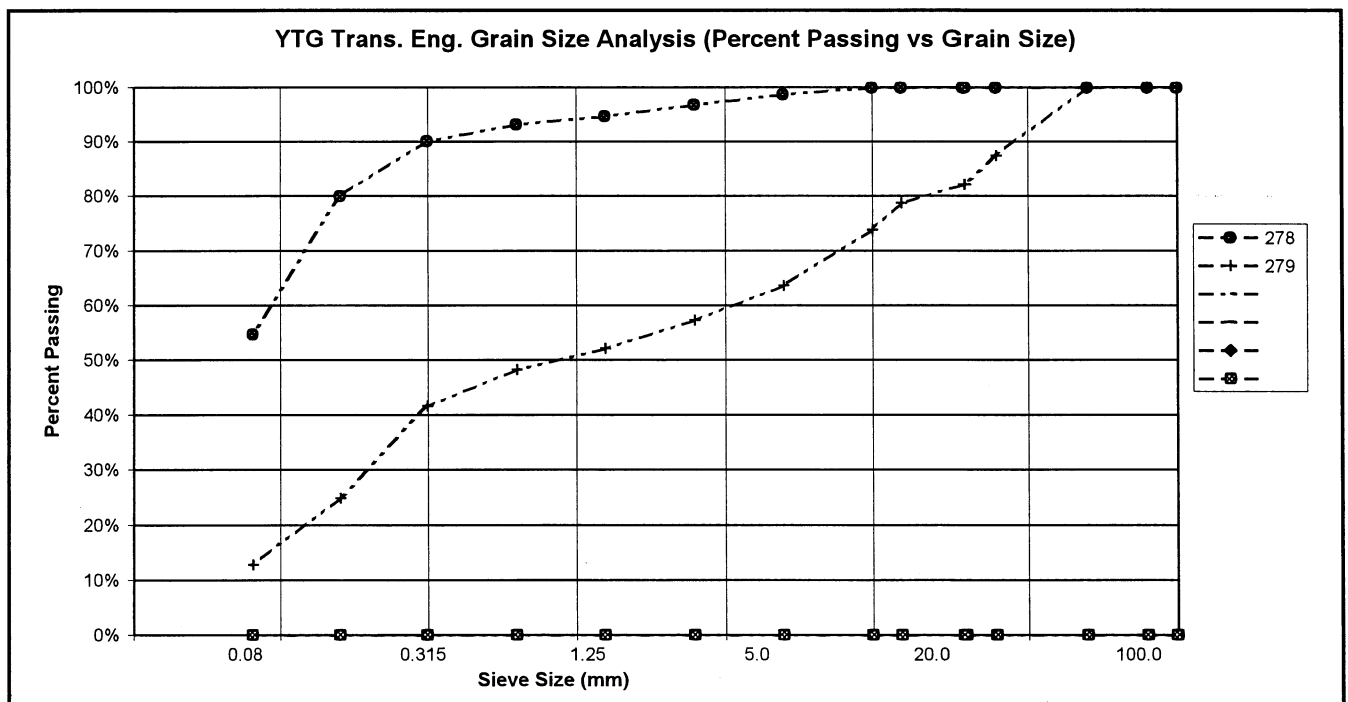


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1777+750 32M LT
 LOGGED BY: B.B.

HOLE No.: 604-174

DATE COMP: 2001/07/05

FIELD NO:	278	279			
LAB NO:	847	848			
DEPTH:	1.2-1.3	2.7-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	87%			
20.0	100%	82%			
12.5	100%	79%			
10.0	100%	74%			
5.0	99%	64%			
2.5	97%	57%			
1.25	95%	52%			
0.630	93%	48%			
0.315	90%	42%			
0.160	80%	25%			
0.080	55%	13%			
M.C.(%):	25%	12%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	1	36			
% SAND:	44	51			
% FINES:	55	13			
CLASSIFICATION	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)			

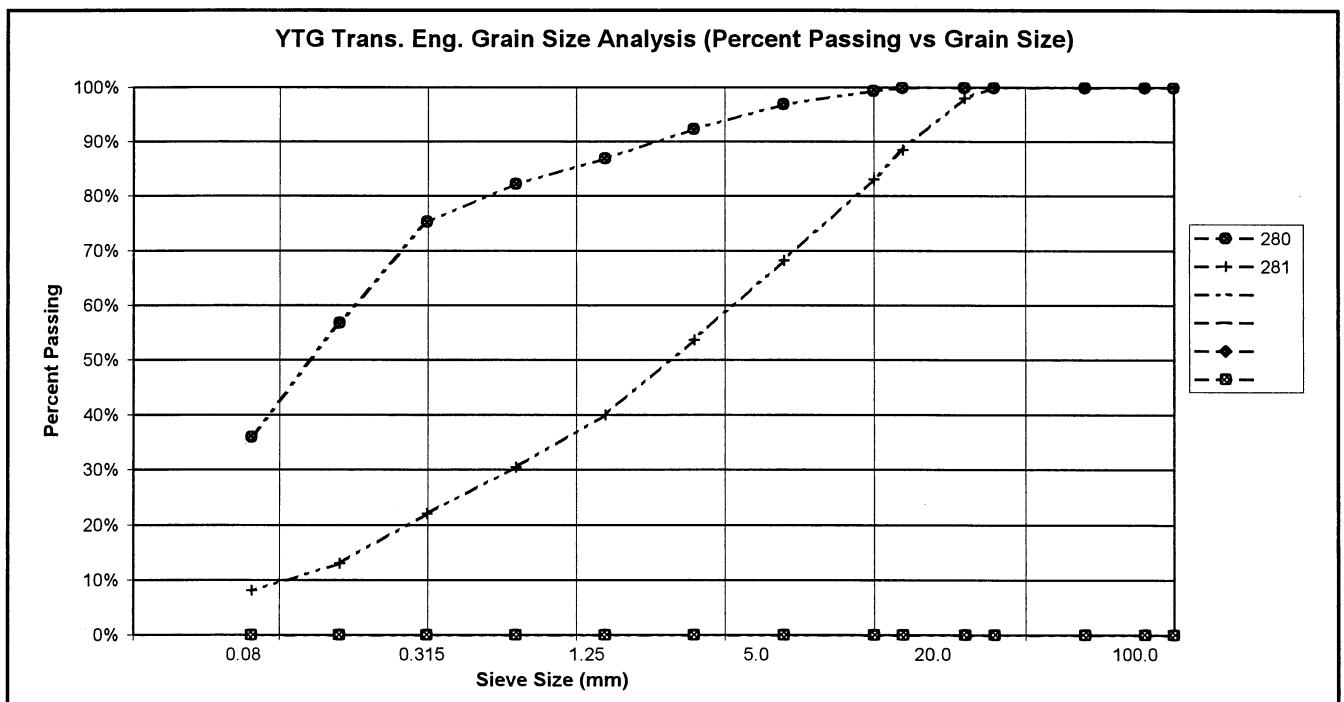


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1778+850 32M LT
 LOGGED BY: B.B.

HOLE No.: 604-175

DATE COMP: 2001/07/05

FIELD NO:	280	281			
LAB NO:	849	850			
DEPTH:	1.2-1.3	2.7-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	98%			
12.5	100%	88%			
10.0	99%	83%			
5.0	97%	68%			
2.5	92%	54%			
1.25	87%	40%			
0.630	82%	31%			
0.315	75%	22%			
0.160	57%	13%			
0.080	36%	8%			
M.C.(%):	21%	10%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	3	32			
% SAND:	61	60			
% FINES:	36	8			
CLASSIFICATION	SILTY SAND (SM)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)			

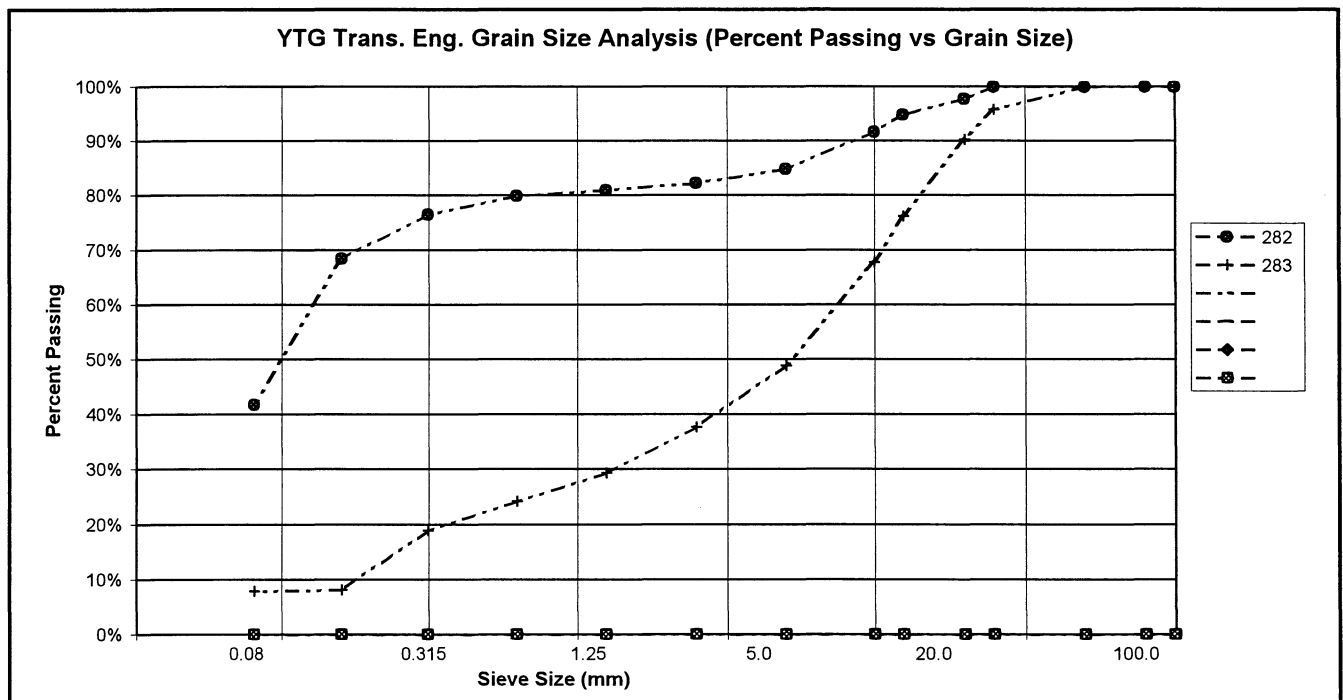


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1778+950 32M LT
 LOGGED BY: B.B.

HOLE No.: 604-176

DATE COMP: 2001/07/05

FIELD NO:	282	283			
LAB NO:	851	852			
DEPTH:	0.8-1.0	2.7-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	96%			
20.0	98%	90%			
12.5	95%	76%			
10.0	92%	68%			
5.0	85%	49%			
2.5	82%	38%			
1.25	81%	29%			
0.630	80%	24%			
0.315	77%	19%			
0.160	68%	8%			
0.080	42%	8%			
M.C.(%):	25%	7%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	15	51			
% SAND:	43	41			
% FINES:	42	8			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)			

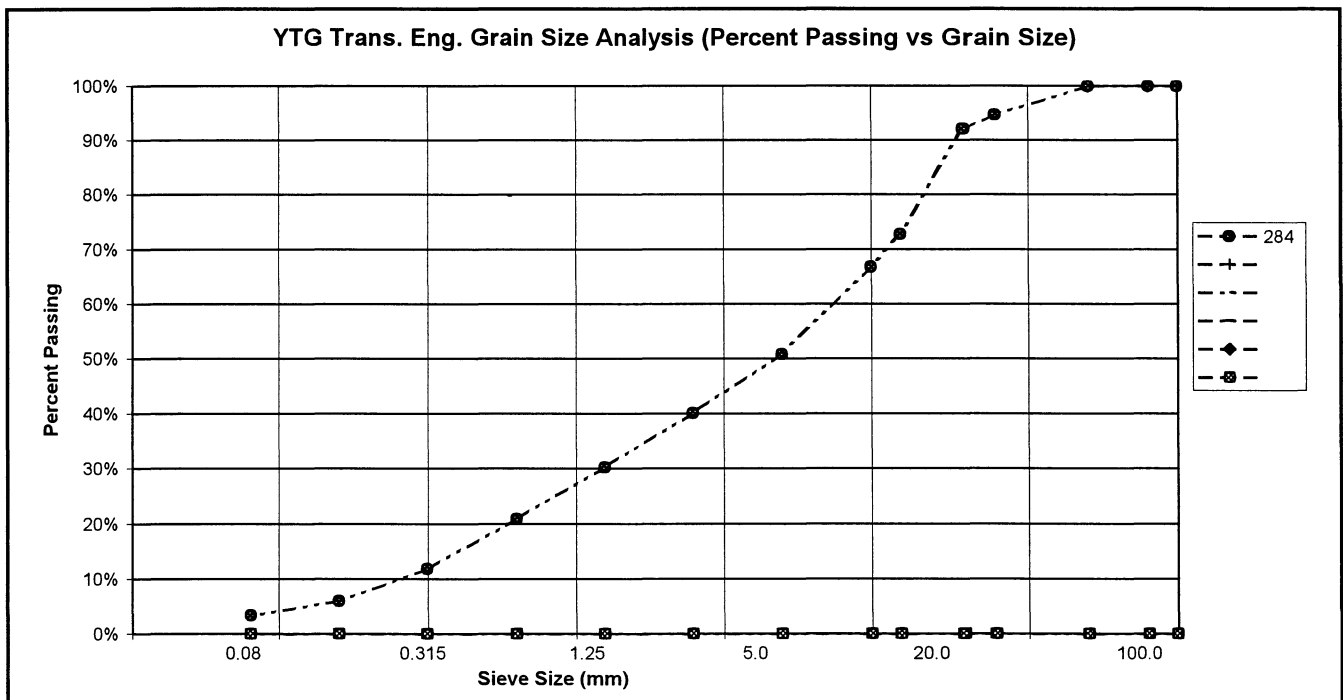


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1779+050 32M LT
 LOGGED BY: B.B.

HOLE No.: 604-177

DATE COMP: 2001/07/05

FIELD NO:	284				
LAB NO:	853				
DEPTH:	1.1-1.3				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	95%				
20.0	92%				
12.5	73%				
10.0	67%				
5.0	51%				
2.5	40%				
1.25	30%				
0.630	21%				
0.315	12%				
0.160	6%				
0.080	3%				
M.C.(%):	3%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	49				
% SAND:	47				
% FINES:	3				
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)				

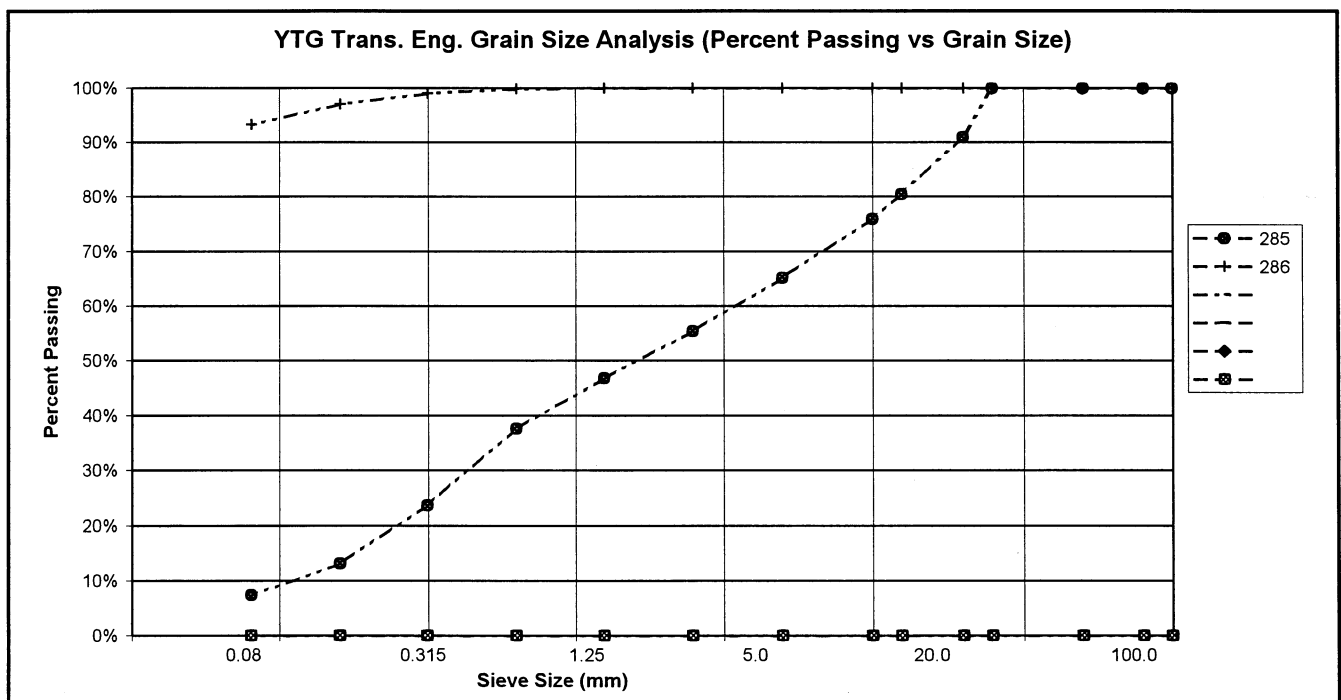


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1779+150 32M LT
 LOGGED BY: B.B.

HOLE No.: 604-178

DATE COMP: 2001/07/05

FIELD NO:	285	286			
LAB NO:	854	855			
DEPTH:	1.2-1.3	2.7-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	91%	100%			
12.5	81%	100%			
10.0	76%	100%			
5.0	65%	100%			
2.5	55%	100%			
1.25	47%	100%			
0.630	38%	100%			
0.315	24%	99%			
0.160	13%	97%			
0.080	7%	93%			
M.C.(%):	5%	75%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	35	0			
% SAND:	58	7			
% FINES:	7	93			
CLASSIFICATION	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	SILT (ML)			

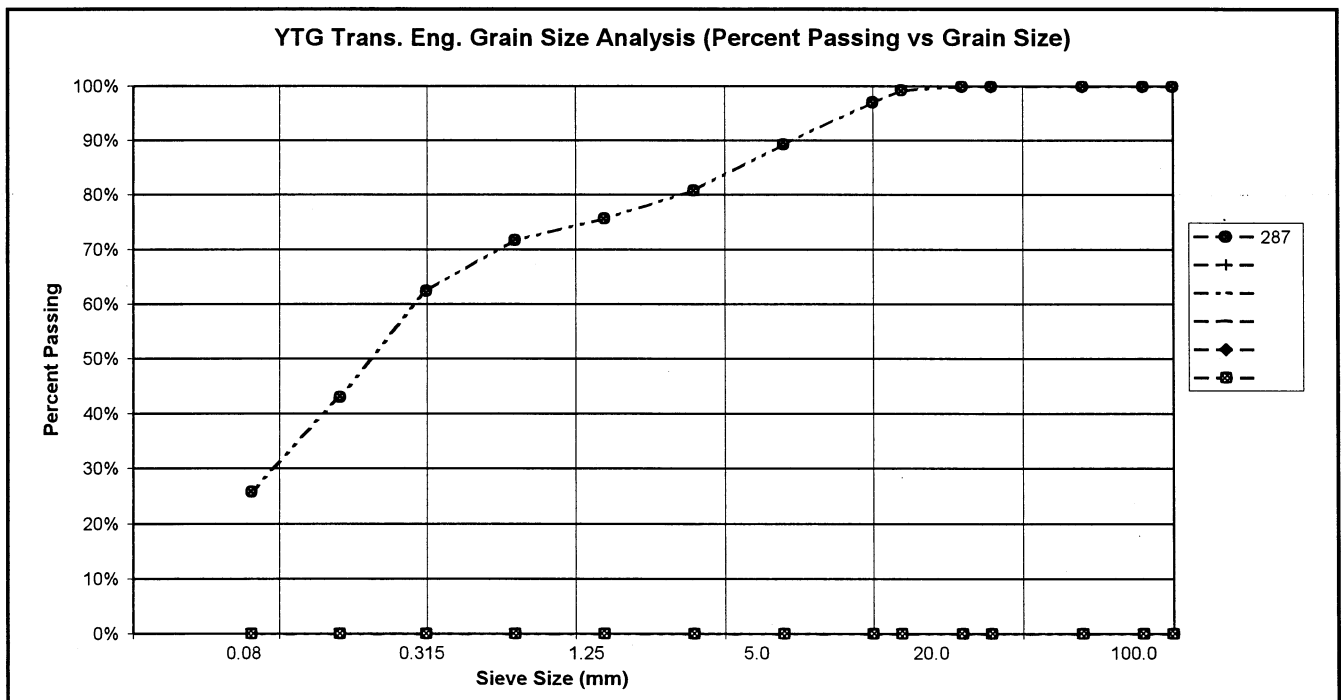


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1779+250 32M LT
 LOGGED BY: B.B.

HOLE No.: 604-179

DATE COMP: 2001/07/05

FIELD NO:	287				
LAB NO:	856				
DEPTH:	1.2-1.3				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	100%				
12.5	99%				
10.0	97%				
5.0	89%				
2.5	81%				
1.25	76%				
0.630	72%				
0.315	62%				
0.160	43%				
0.080	26%				
M.C.(%):	17%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX:	0.0				
% GRAVEL:	11				
% SAND:	63				
% FINES:	26				
CLASSIFICATION	SILTY SAND (SM)				

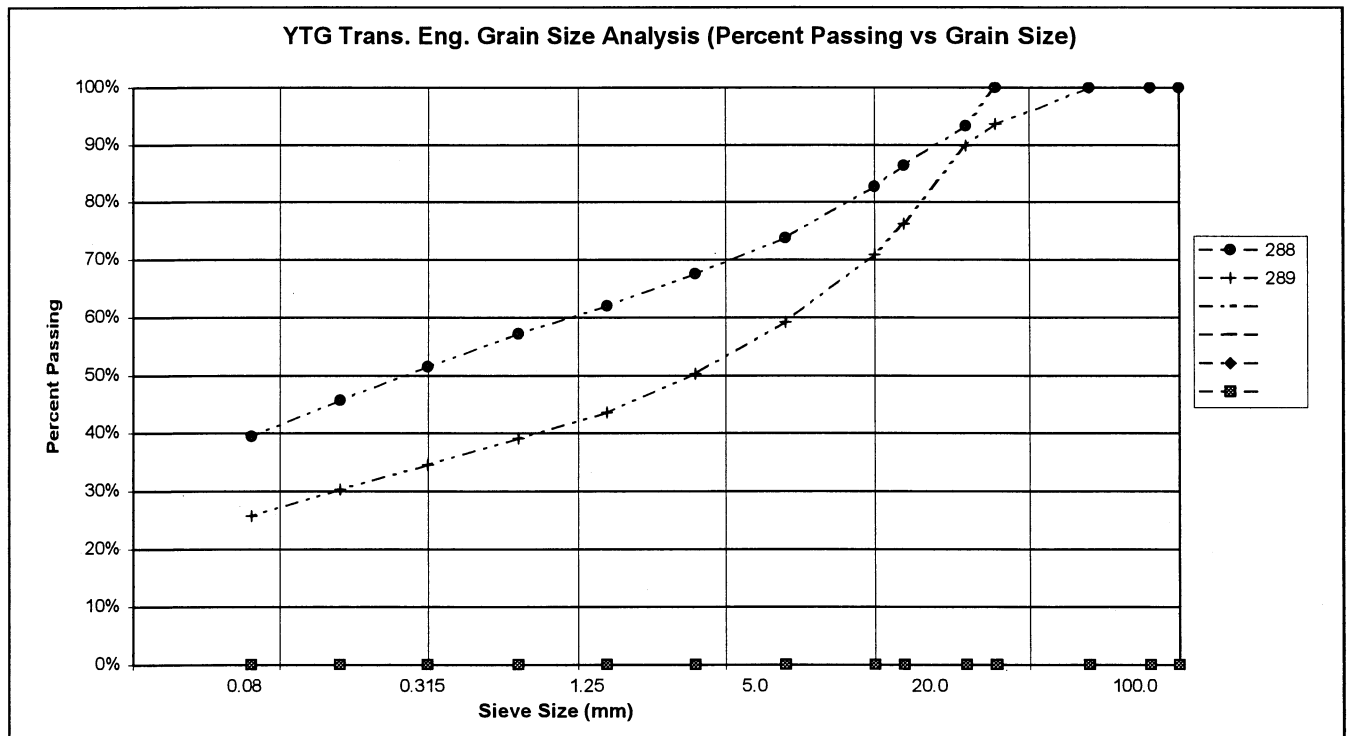


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1779+331 35M LT
 LOGGED BY: B.B.

HOLE No.: 604-180

DATE COMP: 2001/07/06

FIELD NO:	288	289			
LAB NO:	857	858			
DEPTH:	1.3-1.5	2.7-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	94%			
20.0	93%	90%			
12.5	86%	76%			
10.0	83%	71%			
5.0	74%	59%			
2.5	68%	50%			
1.25	62%	44%			
0.630	57%	39%			
0.315	52%	35%			
0.160	46%	30%			
0.080	40%	26%			
M.C.(%):	17%	10%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	26	41			
% SAND:	34	34			
% FINES:	40	26			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)			

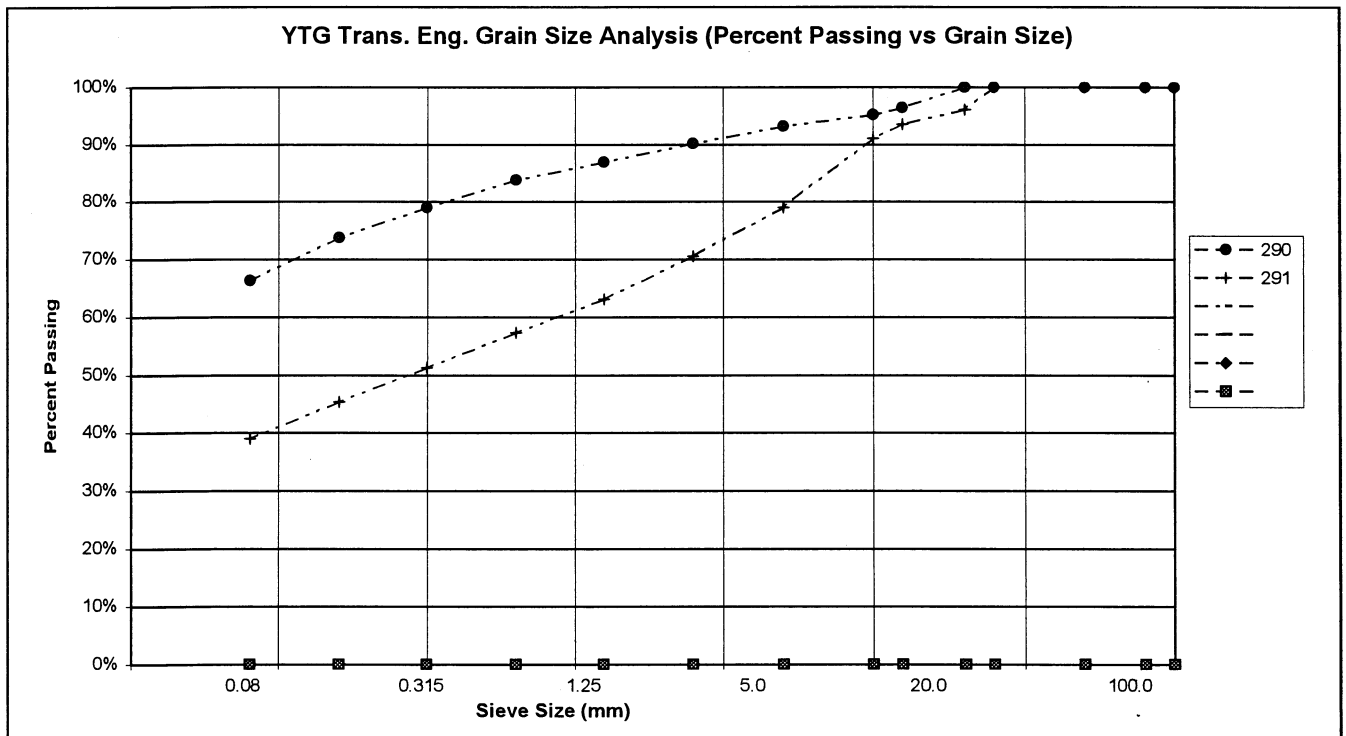


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1779+448 36M LT
 LOGGED BY: B.B.

HOLE No.: 604-181

DATE COMP: 2001/07/06

FIELD NO:	290	291			
LAB NO:	859	860			
DEPTH:	1.2-1.4	2.6-2.7			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	96%			
12.5	96%	94%			
10.0	95%	91%			
5.0	93%	79%			
2.5	90%	71%			
1.25	87%	63%			
0.630	84%	57%			
0.315	79%	51%			
0.160	74%	45%			
0.080	66%	39%			
M.C.(%)	50%	15%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	7	21			
% SAND:	27	40			
% FINES:	66	39			
CLASSIFICATION	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)			

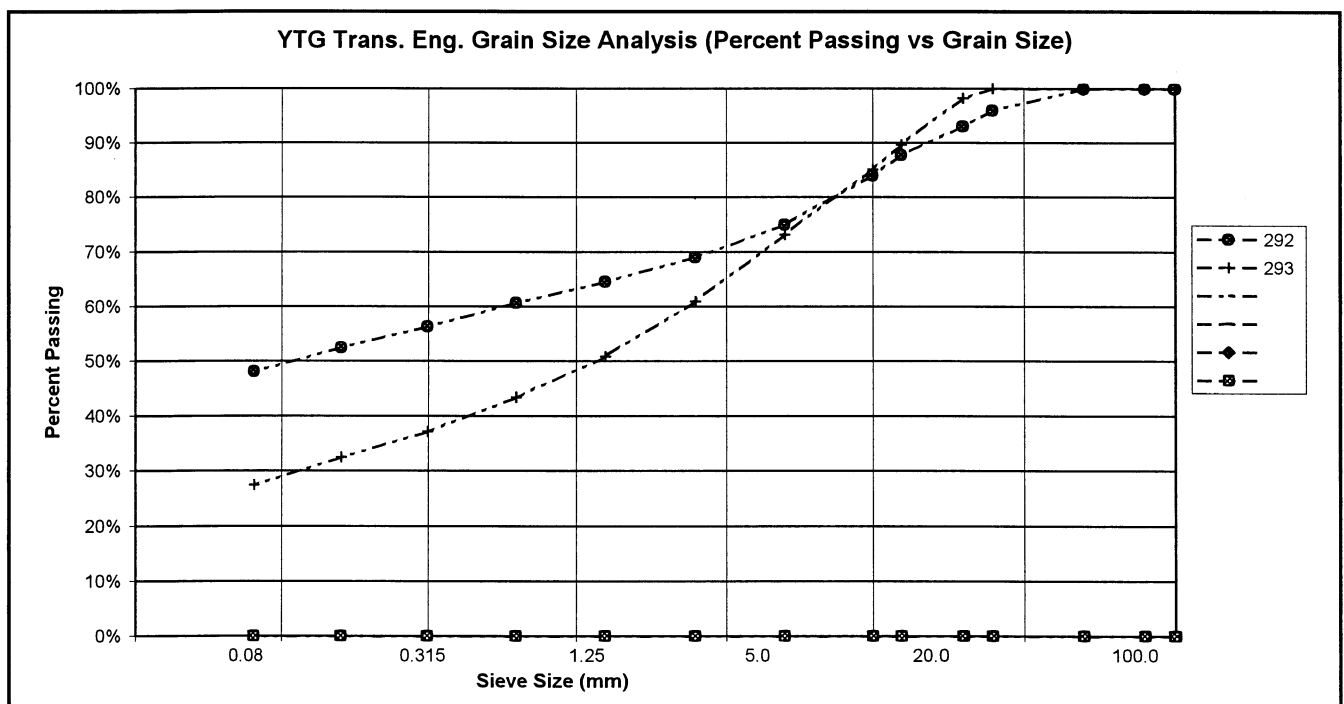


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1779+550 32M LT
 LOGGED BY: B.B.

HOLE No.: 604-182

DATE COMP: 2001/07/06

FIELD NO:	292	293			
LAB NO:	861	862			
DEPTH:	1.6-1.7	2.6-2.7			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	96%	100%			
20.0	93%	98%			
12.5	88%	90%			
10.0	84%	85%			
5.0	75%	73%			
2.5	69%	61%			
1.25	65%	51%			
0.630	61%	43%			
0.315	56%	37%			
0.160	53%	32%			
0.080	48%	27%			
M.C.(%):	18%	11%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	25	27			
% SAND:	27	46			
% FINES:	48	27			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)			

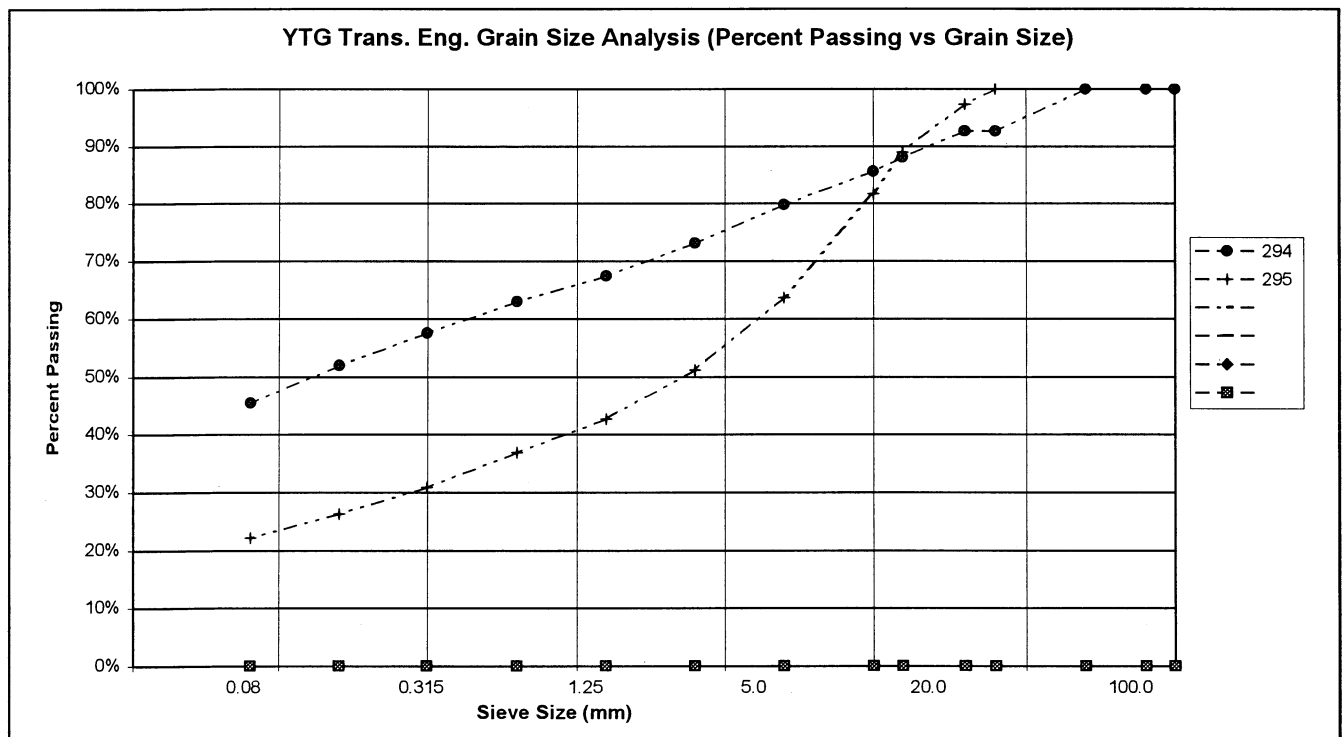


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1779+619 34m LT
 LOGGED BY: B.B..

HOLE No.: 605-183

DATE COMP: 2001/07/09

FIELD NO:	294	295			
LAB NO:	863	864			
DEPTH:	1.2-1.3	2.7-2.8			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	93%	100%			
20.0	93%	97%			
12.5	88%	89%			
10.0	86%	82%			
5.0	80%	64%			
2.5	73%	51%			
1.25	67%	43%			
0.630	63%	37%			
0.315	58%	31%			
0.160	52%	26%			
0.080	45%	22%			
M.C.(%):	17%	10%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	20	36			
% SAND:	34	41			
% FINES:	45	22			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)			

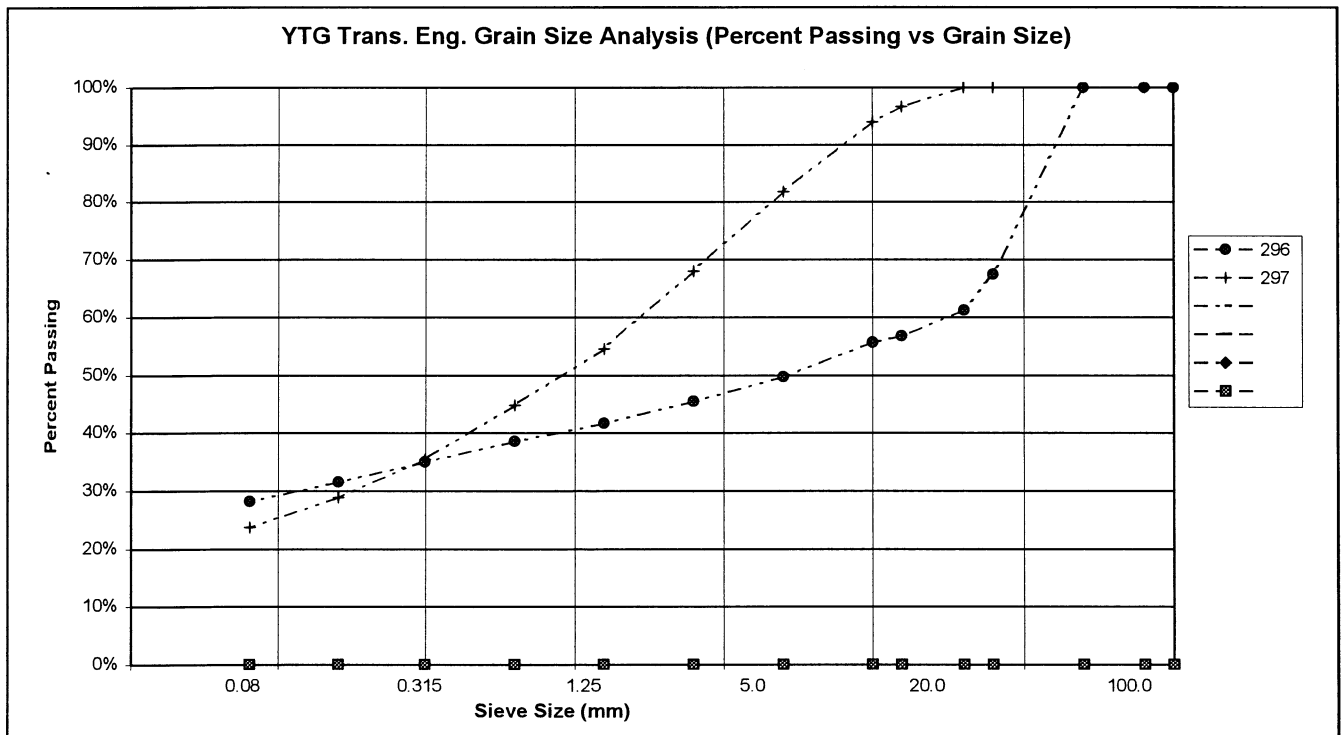


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1779+706 31m LT
 LOGGED BY: B.B.

HOLE No.: 605-184

DATE COMP: 2001/07/09

FIELD NO:	296	297			
LAB NO:	865	866			
DEPTH:	1.2-1.3	2.7-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	67%	100%			
20.0	61%	100%			
12.5	57%	97%			
10.0	56%	94%			
5.0	50%	82%			
2.5	45%	68%			
1.25	42%	54%			
0.630	39%	45%			
0.315	35%	35%			
0.160	32%	29%			
0.080	28%	24%			
M.C.(%):	14%	10%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	50	18			
% SAND:	22	58			
% FINES:	28	24			
CLASSIFICATION	SILTY GRAVEL WTH SAND (GM)	SILTY SAND WTH GRAVEL (SM)			

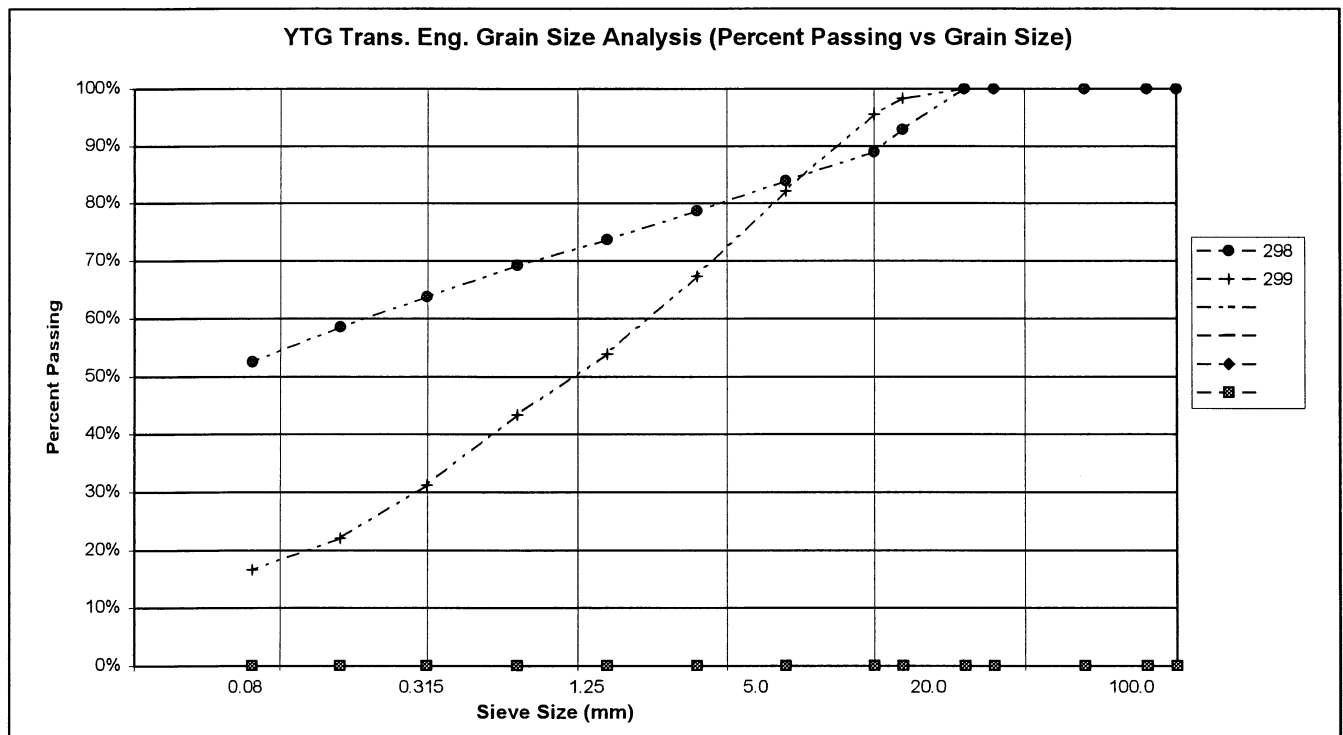


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1779+793 36m LT
 LOGGED BY: B.B..

HOLE No.: 605-185

DATE COMP: 2001/07/09

FIELD NO:	298	299			
LAB NO:	867	868			
DEPTH:	1.2-1.3	2.0-2.2			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	100%			
12.5	93%	98%			
10.0	89%	96%			
5.0	84%	82%			
2.5	79%	67%			
1.25	74%	54%			
0.630	69%	43%			
0.315	64%	31%			
0.160	59%	22%			
0.080	53%	17%			
M.C.(%):	24%	11%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	16	18			
% SAND:	31	66			
% FINES:	53	17			
CLASSIFICATION	SANDY SILT WITH GRAVEL (ML)	SILTY SAND WITH GRAVEL (SM)			

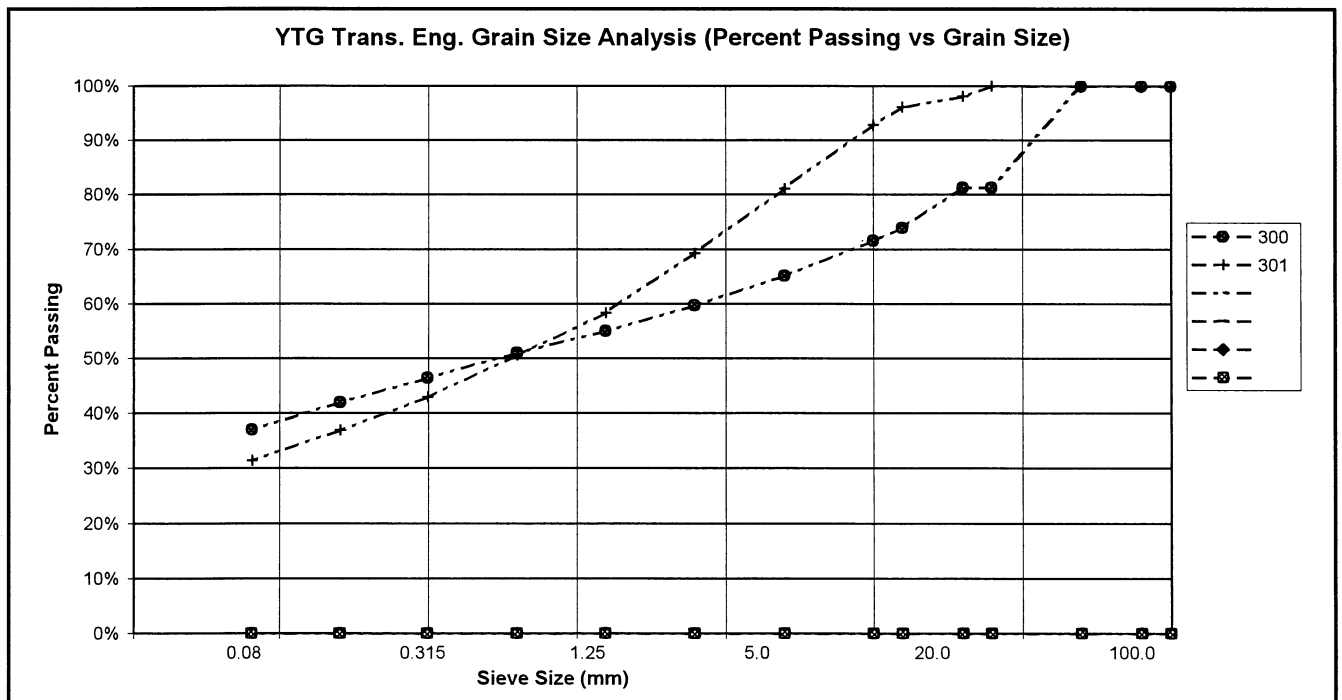


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1780+000 32M LT
 LOGGED BY: B.B.

HOLE No.: 605-186

DATE COMP: 2001/07/09

FIELD NO:	300	301			
LAB NO:	869	870			
DEPTH:	1.2-1.3	2.7-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	81%	100%			
20.0	81%	98%			
12.5	74%	96%			
10.0	72%	93%			
5.0	65%	81%			
2.5	60%	69%			
1.25	55%	58%			
0.630	51%	51%			
0.315	46%	43%			
0.160	42%	37%			
0.080	37%	31%			
M.C.(%):	7%	9%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	35	19			
% SAND:	28	50			
% FINES:	37	31			
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)			

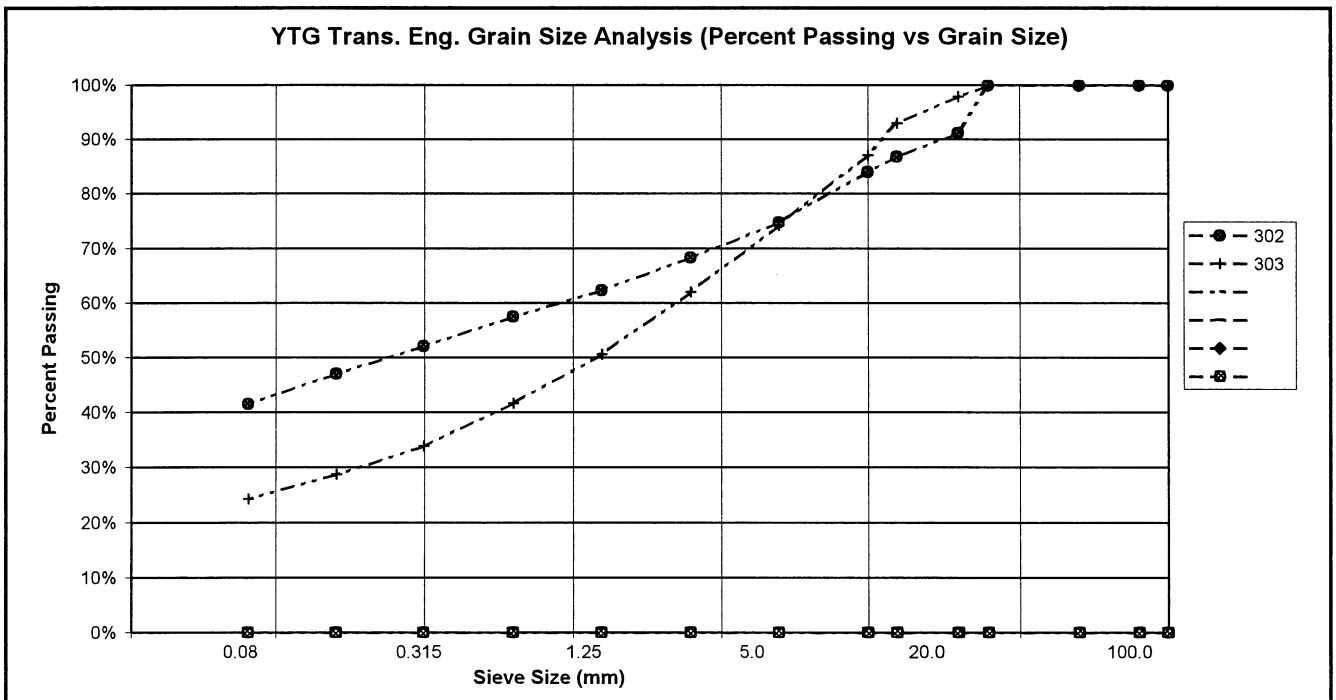


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1780+100 36M LT
 LOGGED BY: B.B..

HOLE No.: 605-187

DATE COMP: 2001/07/09

FIELD NO:	302	303			
LAB NO:	871	872			
DEPTH:	0.8-1.0	2.7-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	91%	98%			
12.5	87%	93%			
10.0	84%	87%			
5.0	75%	74%			
2.5	68%	62%			
1.25	62%	51%			
0.630	57%	42%			
0.315	52%	34%			
0.160	47%	29%			
0.080	42%	24%			
M.C.(%):	8%	10%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	25	26			
% SAND:	33	50			
% FINES:	42	24			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)			

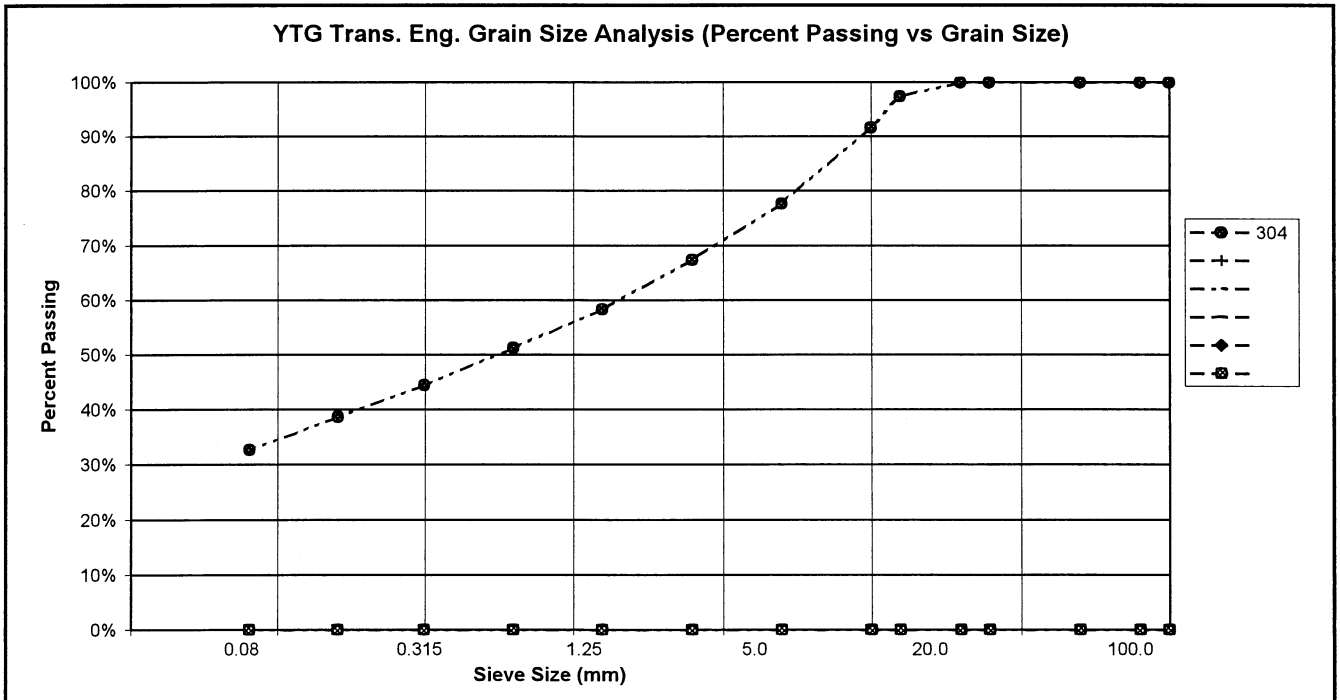


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1780+200 30M LT
 LOGGED BY: B.B.

HOLE No.: 605-188

DATE COMP: 2001/07/09

FIELD NO:	304				
LAB NO:	873				
DEPTH:	2.7-2.9				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	100%				
12.5	97%				
10.0	92%				
5.0	78%				
2.5	67%				
1.25	58%				
0.630	51%				
0.315	44%				
0.160	39%				
0.080	33%				
M.C.(%):	11%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	22				
% SAND:	45				
% FINES:	33				
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)				

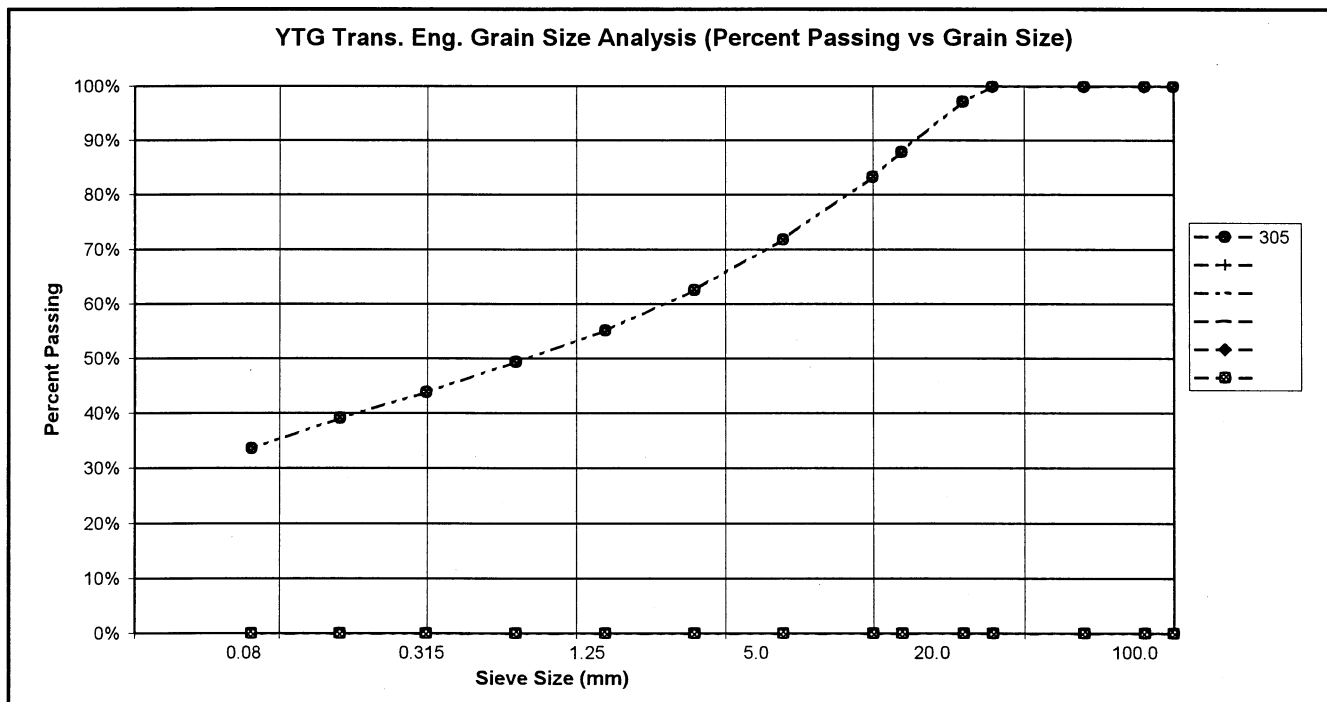


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1780+300 36M LT
 LOGGED BY: B.B.

HOLE No.: 605-189

DATE COMP: 2001/07/09

FIELD NO:	305				
LAB NO:	874				
DEPTH:	2.7-2.9				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	97%				
12.5	88%				
10.0	83%				
5.0	72%				
2.5	63%				
1.25	55%				
0.630	49%				
0.315	44%				
0.160	39%				
0.080	34%				
M.C.(%)	10%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	28				
% SAND:	38				
% FINES:	34				
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)				

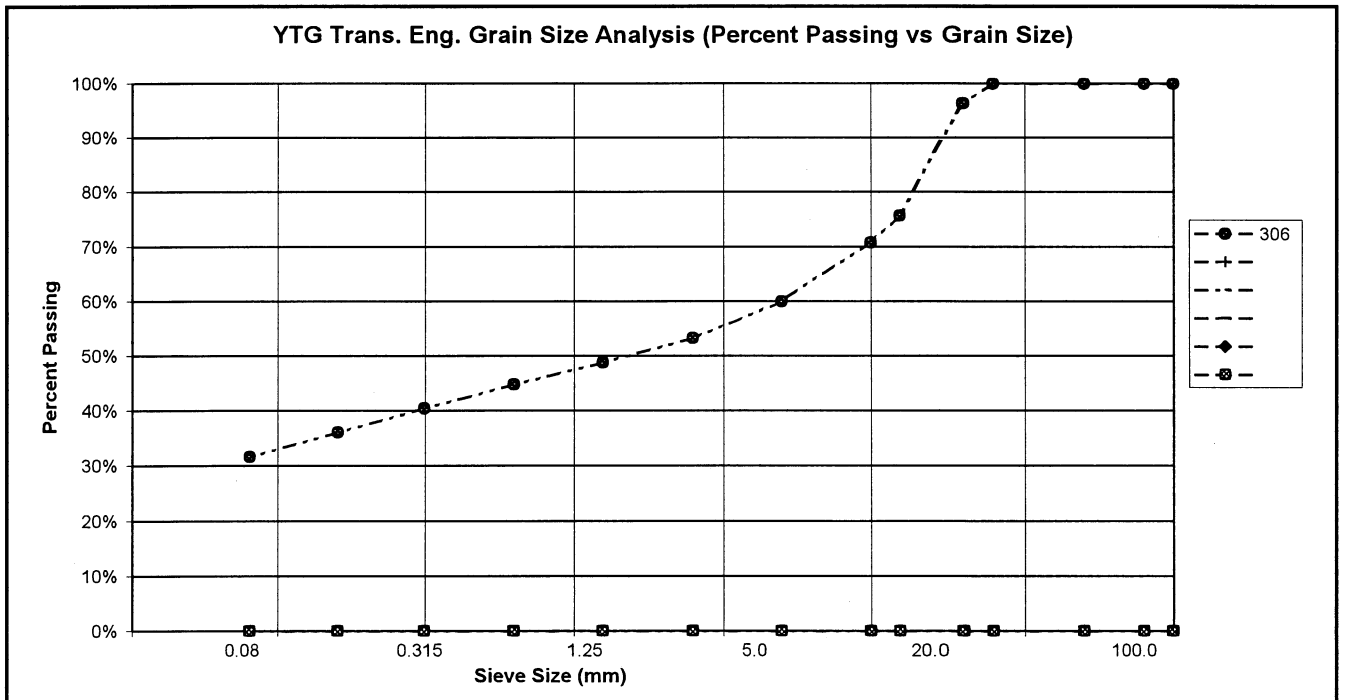


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1780+400 36M LT
 LOGGED BY: B.B..

HOLE No.: 605-190

DATE COMP: 2001/07/09

FIELD NO:	306				
LAB NO:	875				
DEPTH:	1.0-1.2				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	96%				
12.5	76%				
10.0	71%				
5.0	60%				
2.5	53%				
1.25	49%				
0.630	45%				
0.315	40%				
0.160	36%				
0.080	32%				
M.C.(%):	14%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	40				
% SAND:	28				
% FINES:	32				
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)				

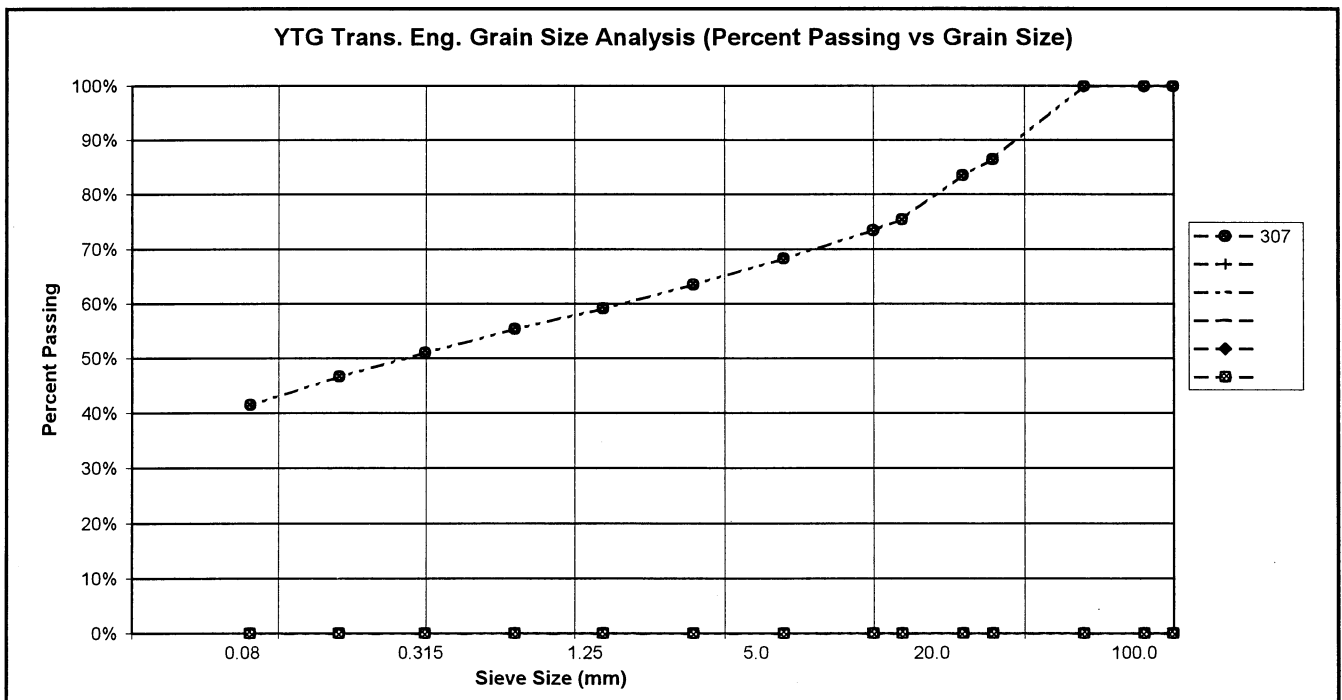


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1780+500 36M LT
 LOGGED BY: B.B.

HOLE No.: 605-191

DATE COMP: 2001/07/09

FIELD NO:	307				
LAB NO:	876				
DEPTH:	1.0-1.1				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	87%				
20.0	84%				
12.5	75%				
10.0	73%				
5.0	68%				
2.5	63%				
1.25	59%				
0.630	55%				
0.315	51%				
0.160	47%				
0.080	42%				
M.C.(%):	33%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	32				
% SAND:	27				
% FINES:	42				
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)				

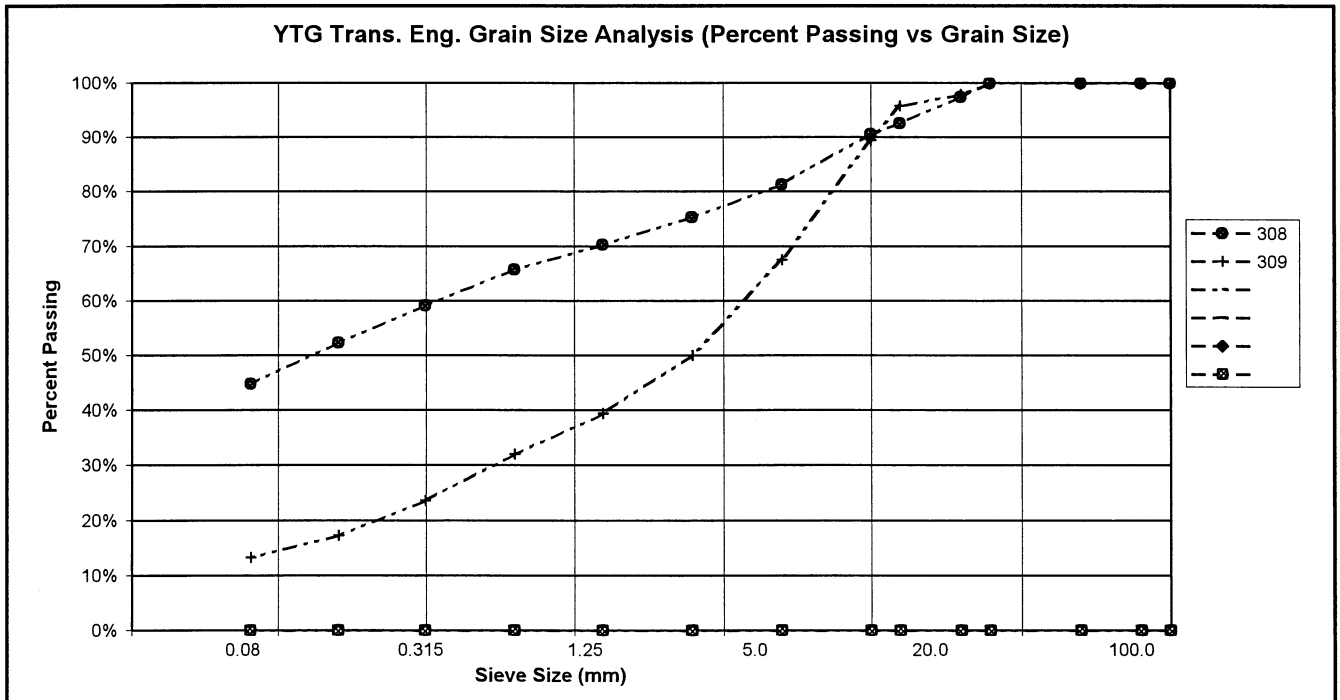


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1780+600 36M LT
 LOGGED BY: B.B.

HOLE No.: 605-192

DATE COMP: 2001/07/09

FIELD NO:	308	309			
LAB NO:	877	878			
DEPTH:	1.2-1.3	2.7-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	97%	98%			
12.5	93%	96%			
10.0	91%	89%			
5.0	81%	68%			
2.5	75%	50%			
1.25	70%	39%			
0.630	66%	32%			
0.315	59%	24%			
0.160	52%	17%			
0.080	45%	13%			
M.C.(%):	17%	6%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	19	32			
% SAND:	37	54			
% FINES:	45	13			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)			

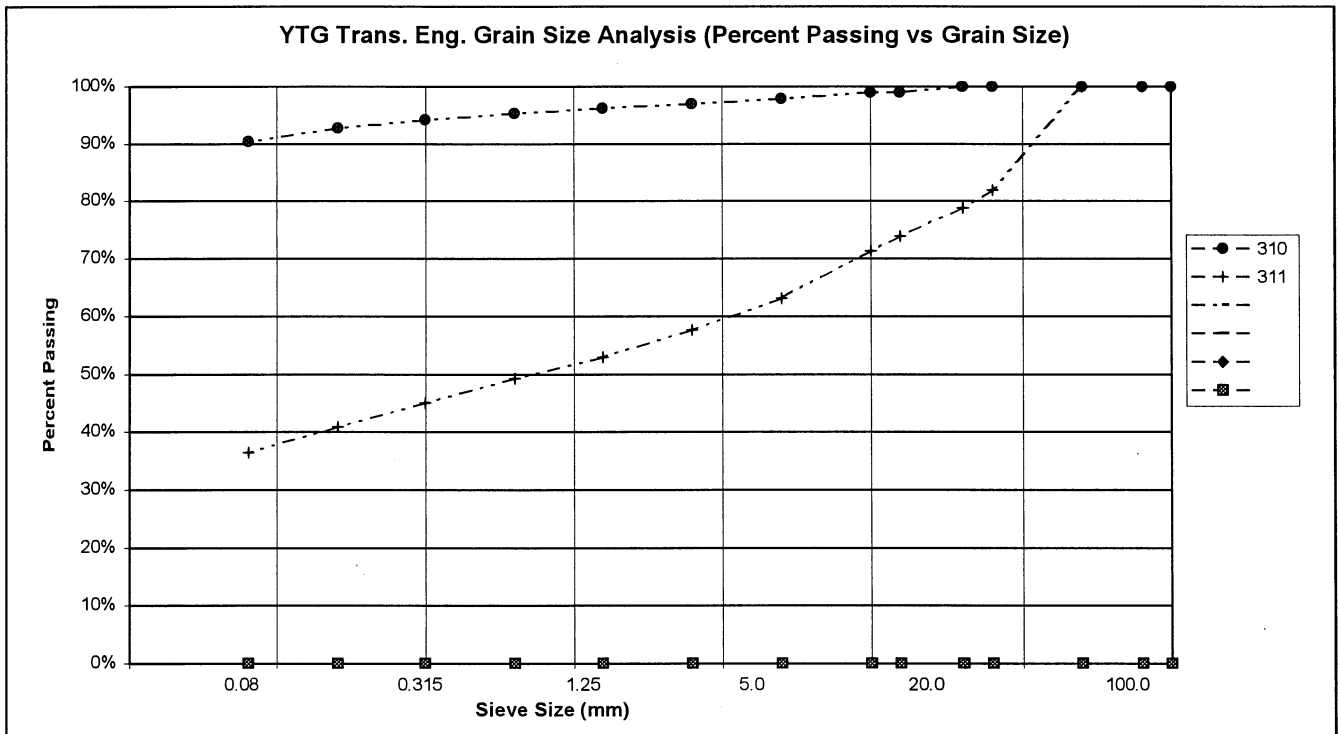


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1780+700 22M RT
 LOGGED BY: B.B..

HOLE No.: 605-193

DATE COMP: 2001/07/09

FIELD NO:	310	311			
LAB NO:	879	880			
DEPTH:	1.2-1.3	2.7-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	82%			
20.0	100%	79%			
12.5	99%	74%			
10.0	99%	71%			
5.0	98%	63%			
2.5	97%	58%			
1.25	96%	53%			
0.630	95%	49%			
0.315	94%	45%			
0.160	93%	41%			
0.080	90%	36%			
M.C.(%):	106%	14%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	2	37			
% SAND:	7	27			
% FINES:	90	36			
CLASSIFICATION	SILT (ML)	SILTY GRAVEL WITH SAND (GM)			

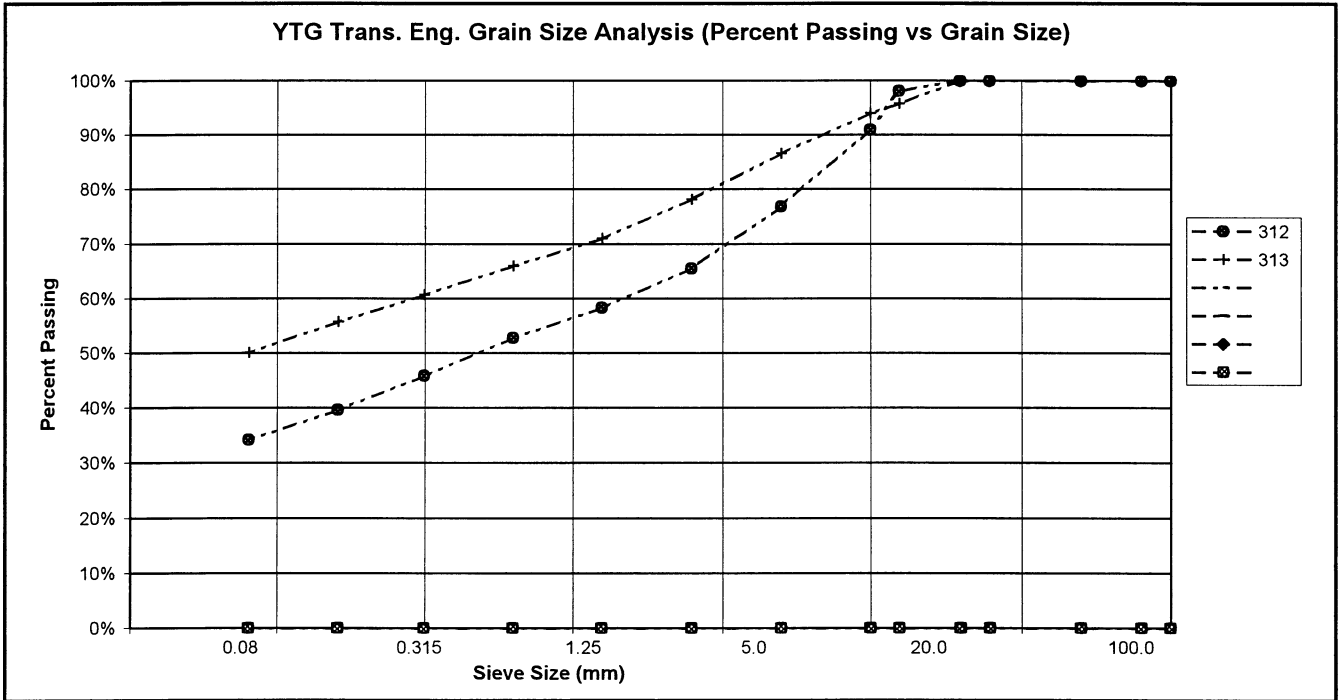


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1780+800 32M RT
 LOGGED BY: B.B..

HOLE No.: 605-194

DATE COMP: 2001/07/09

FIELD NO:	312	313			
LAB NO:	881	882			
DEPTH:	1.2-1.3	2.7-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	100%			
12.5	98%	96%			
10.0	91%	94%			
5.0	77%	87%			
2.5	65%	78%			
1.25	58%	71%			
0.630	53%	66%			
0.315	46%	61%			
0.160	40%	56%			
0.080	34%	50%			
M.C.(%):	18%	16%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	23	13			
% SAND:	43	36			
% FINES:	34	50			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)			

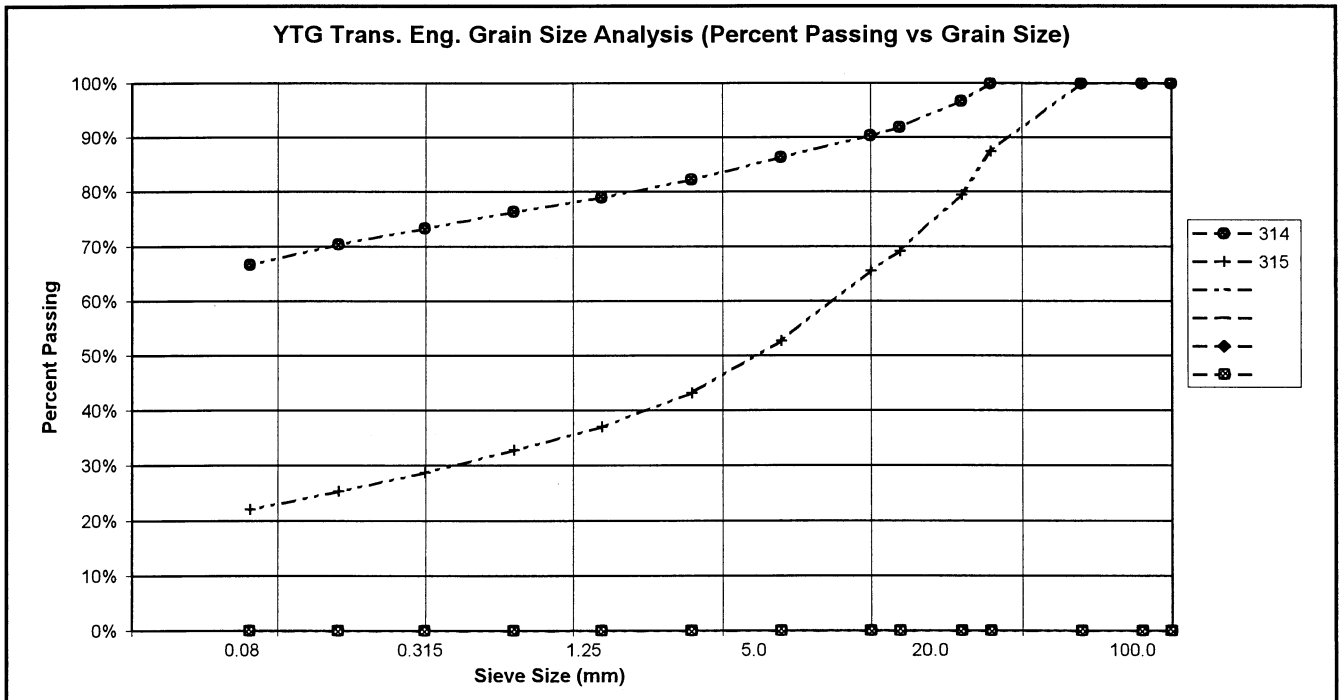


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1780+900 36M RT
 LOGGED BY: B.B.

HOLE No.: 605-195

DATE COMP: 2001/07/10

FIELD NO:	314	315			
LAB NO:	883	884			
DEPTH:	0.8-1.0	2.7-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	87%			
20.0	97%	79%			
12.5	92%	69%			
10.0	90%	65%			
5.0	86%	53%			
2.5	82%	43%			
1.25	79%	37%			
0.630	76%	33%			
0.315	73%	29%			
0.160	70%	25%			
0.080	67%	22%			
M.C.(%):	43%	10%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	14	47			
% SAND:	20	31			
% FINES:	67	22			
CLASSIFICATION	SANDY SILT (ML)	SILTY GRAVEL WITH SAND (GM)			

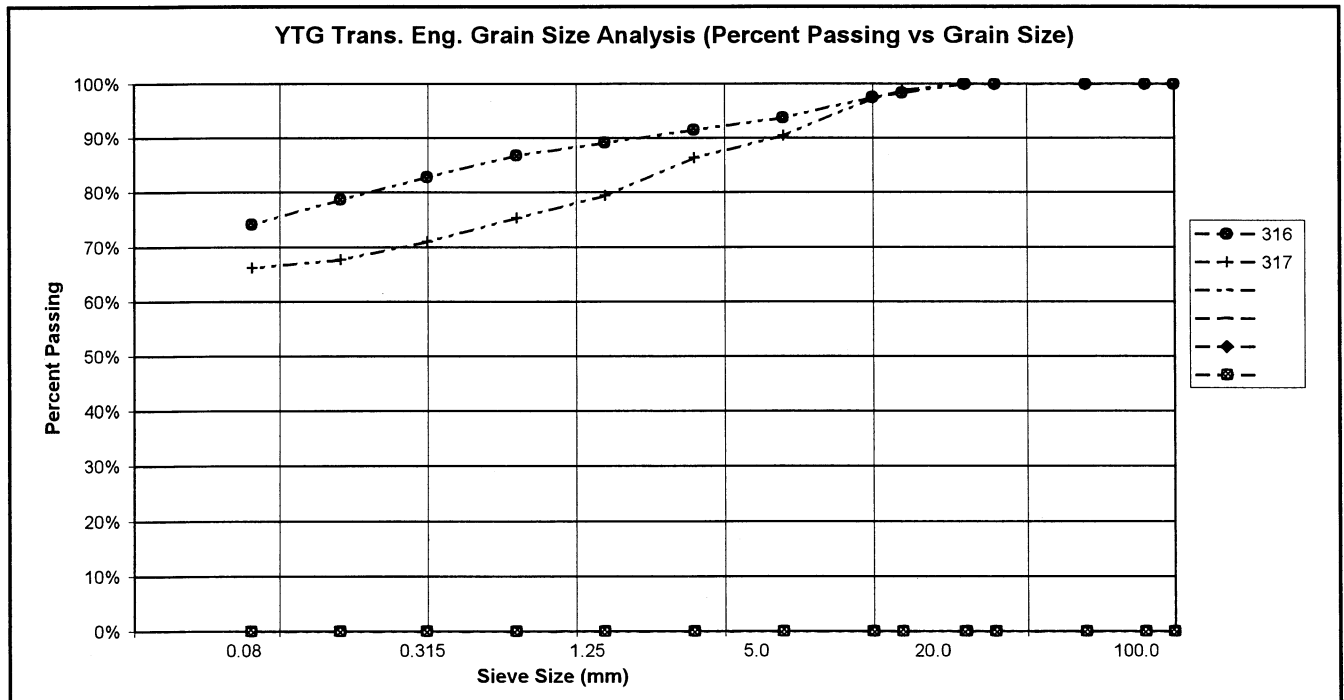


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1781+000 32M RT
 LOGGED BY: B.B.

HOLE No.: 605-196

DATE COMP: 2001/07/10

FIELD NO:	316	317			
LAB NO:	885	886			
DEPTH:	1.1-1.3	2.7-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	100%			
12.5	98%	99%			
10.0	98%	97%			
5.0	94%	91%			
2.5	92%	86%			
1.25	89%	79%			
0.630	87%	75%			
0.315	83%	71%			
0.160	79%	68%			
0.080	74%	66%			
M.C.(%)	22%	21%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	6	9			
% SAND:	20	24			
% FINES:	74	66			
CLASSIFICATION	SILT WITH SAND (ML)	SANDY SILT (ML)			

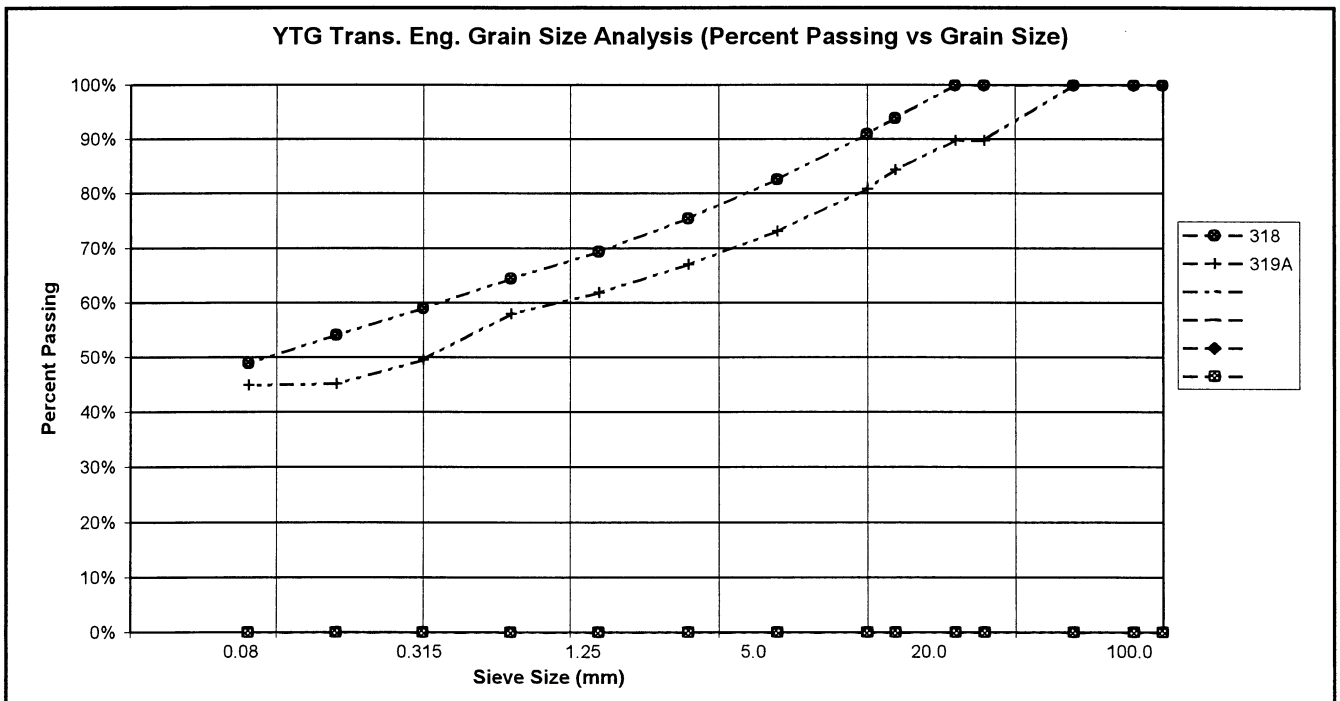


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1781+100 36M RT
 LOGGED BY: B.B..

HOLE No.: 605-197

DATE COMP: 2001/07/10

FIELD NO:	318	319A			
LAB NO:	887	888			
DEPTH:	1.1-1.3	2.7-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	90%			
20.0	100%	90%			
12.5	94%	84%			
10.0	91%	81%			
5.0	83%	73%			
2.5	75%	67%			
1.25	69%	62%			
0.630	64%	58%			
0.315	59%	50%			
0.160	54%	45%			
0.080	49%	45%			
M.C.(%)	38%	16%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	17	27			
% SAND:	34	28			
% FINES:	49	45			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)			

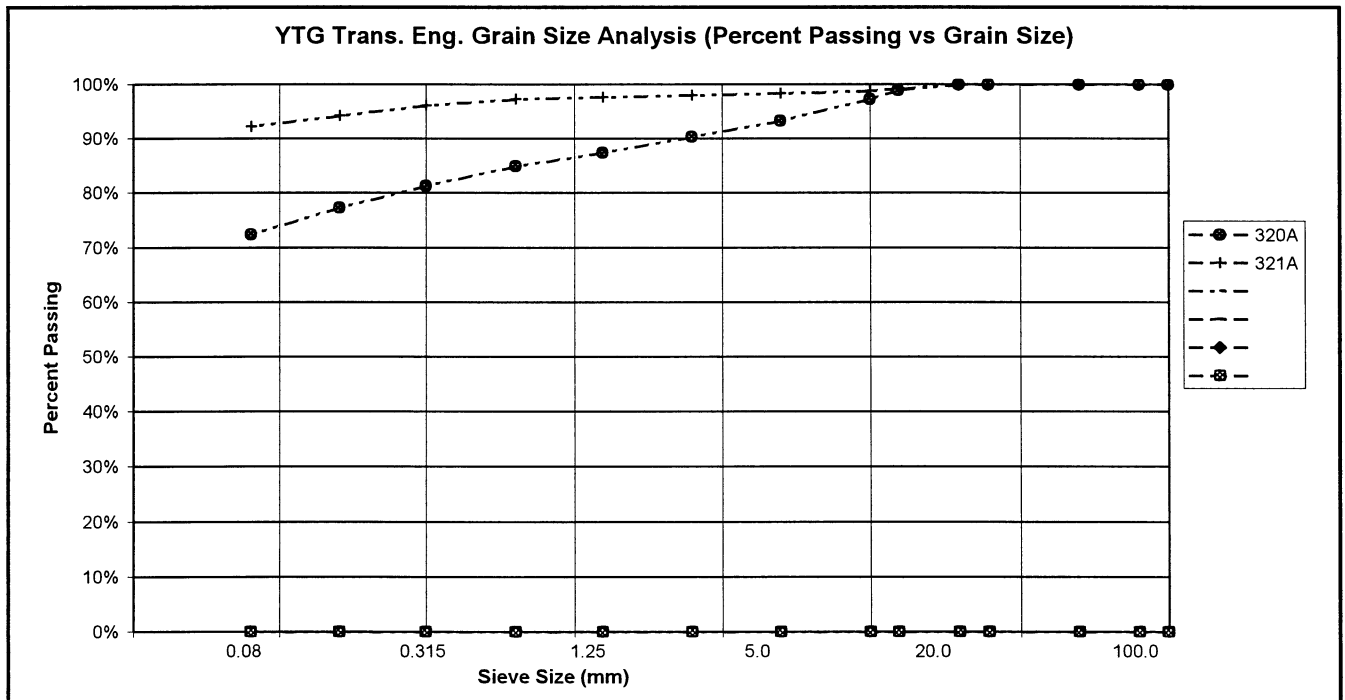


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1781+200 36M RT
 LOGGED BY: B.B..

HOLE No.: 605-198

DATE COMP: 2001/07/10

FIELD NO:	320A	321A			
LAB NO:	889	890			
DEPTH:	1.0-1.1	2.7-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	100%			
12.5	99%	99%			
10.0	97%	99%			
5.0	93%	98%			
2.5	90%	98%			
1.25	87%	98%			
0.630	85%	97%			
0.315	81%	96%			
0.160	77%	94%			
0.080	72%	92%			
M.C.(%)	39%	27%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	7	2			
% SAND:	21	6			
% FINES:	72	92			
CLASSIFICATION	SILT WITH SAND (ML)	SILT (ML)			

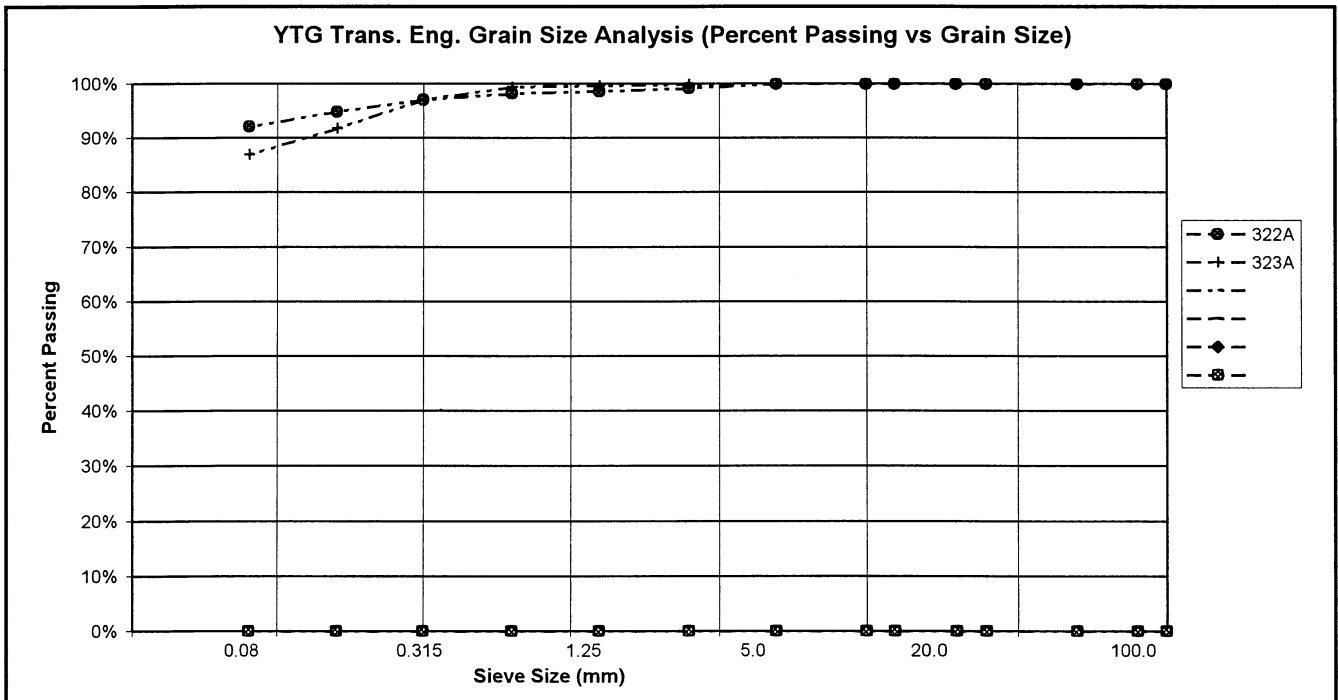


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1781+300 36M RT
 LOGGED BY: B.B..

HOLE No.: 605-199

DATE COMP: 2001/07/10

FIELD NO:	322A	323A			
LAB NO:	891	892			
DEPTH:	1.0-1.1	2.6-2.7			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	100%			
12.5	100%	100%			
10.0	100%	100%			
5.0	100%	100%			
2.5	99%	100%			
1.25	99%	100%			
0.630	98%	99%			
0.315	97%	97%			
0.160	95%	92%			
0.080	92%	87%			
M.C.(%)	59%	30%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	0	0			
% SAND:	8	13			
% FINES:	92	87			
CLASSIFICATION	SILT (ML)	SILT (ML)			

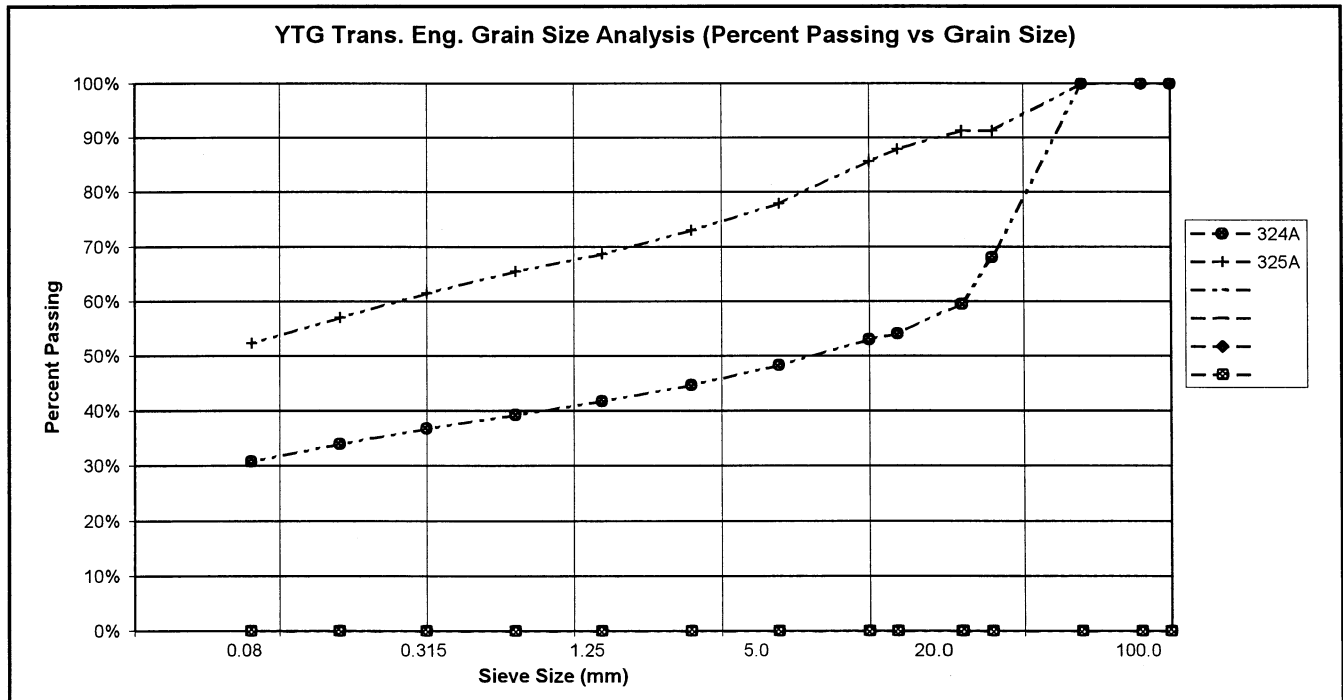


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1781+400 36M RT
 LOGGED BY: B.B.

HOLE No.: 605-200

DATE COMP: 2001/07/10

FIELD NO:	324A	325A			
LAB NO:	893	894			
DEPTH:	1.3-1.4	2.7-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	68%	91%			
20.0	60%	91%			
12.5	54%	88%			
10.0	53%	86%			
5.0	48%	78%			
2.5	45%	73%			
1.25	42%	69%			
0.630	39%	65%			
0.315	37%	61%			
0.160	34%	57%			
0.080	31%	52%			
M.C.(%):	18%	23%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	52	22			
% SAND:	17	25			
% FINES:	31	52			
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)	SANDY SILT WITH GRAVEL (ML)			

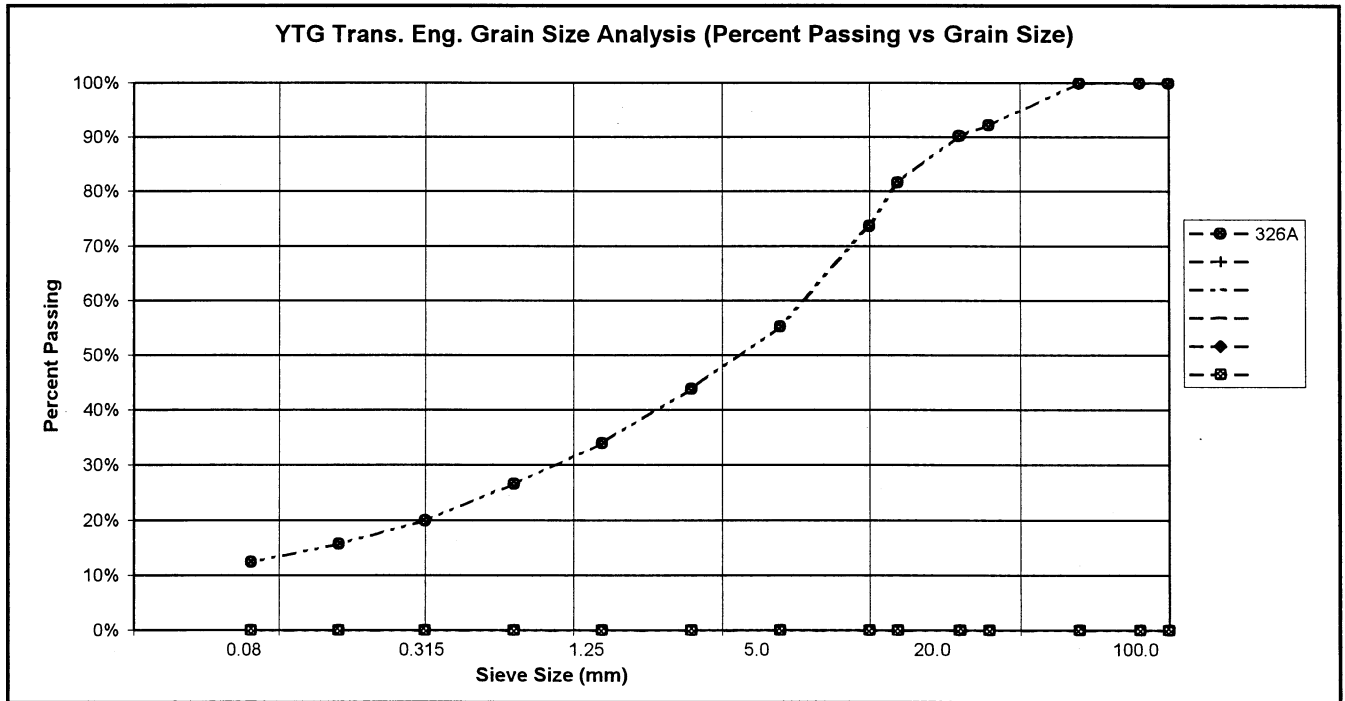


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1781+500 36M RT
 LOGGED BY: B.B.

HOLE No.: 605-201

DATE COMP: 2001/07/10

FIELD NO:	326A				
LAB NO:	895				
DEPTH:	1.3-1.5				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	92%				
20.0	90%				
12.5	82%				
10.0	74%				
5.0	55%				
2.5	44%				
1.25	34%				
0.630	27%				
0.315	20%				
0.160	16%				
0.080	12%				
M.C.(%):	8%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX:	0.0				
% GRAVEL:	45				
% SAND:	43				
% FINES:	12				
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)				

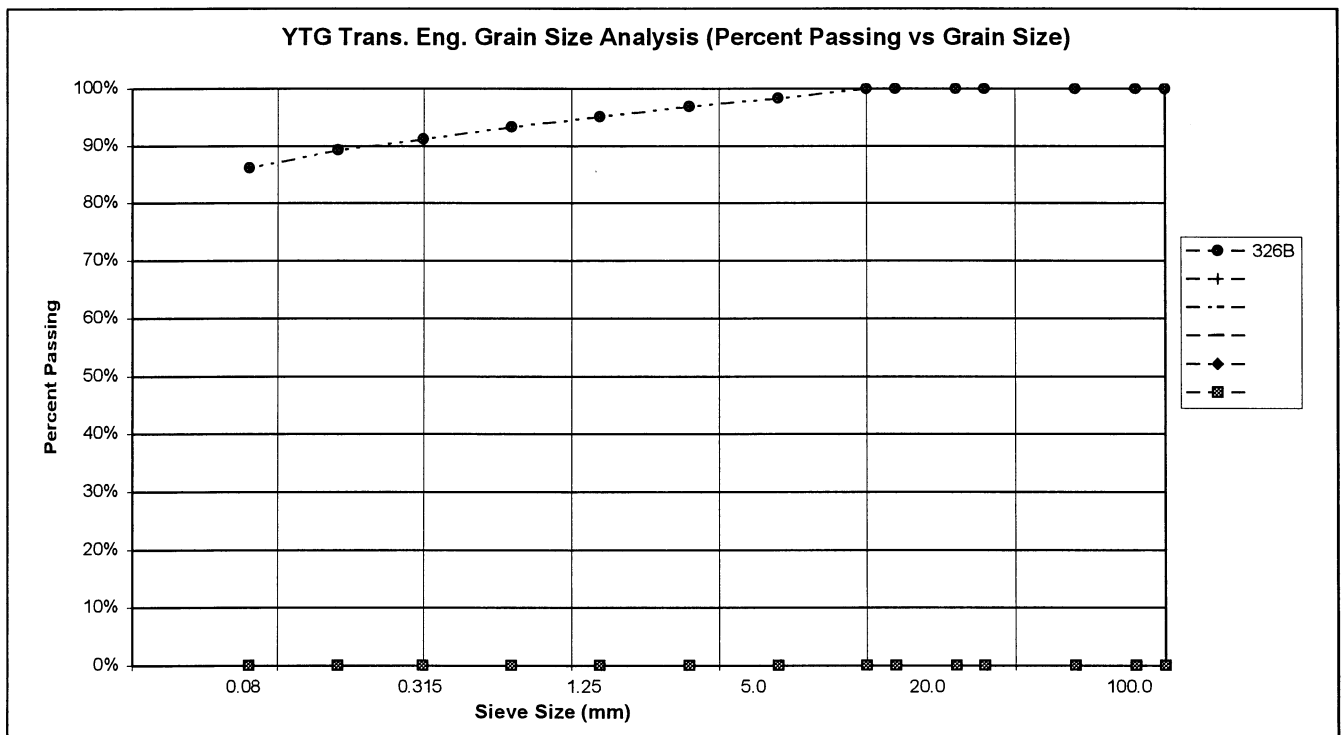


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1781+600 36M RT
 LOGGED BY: B.B..

HOLE No.: 605-202

DATE COMP: 2001/07/10

FIELD NO:	326B				
LAB NO:	896				
DEPTH:	2.5-2.7				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	100%				
12.5	100%				
10.0	100%				
5.0	98%				
2.5	97%				
1.25	95%				
0.630	93%				
0.315	91%				
0.160	89%				
0.080	86%				
M.C.(%):	59%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	2				
% SAND:	12				
% FINES:	86				
CLASSIFICATION	SILT (ML)				

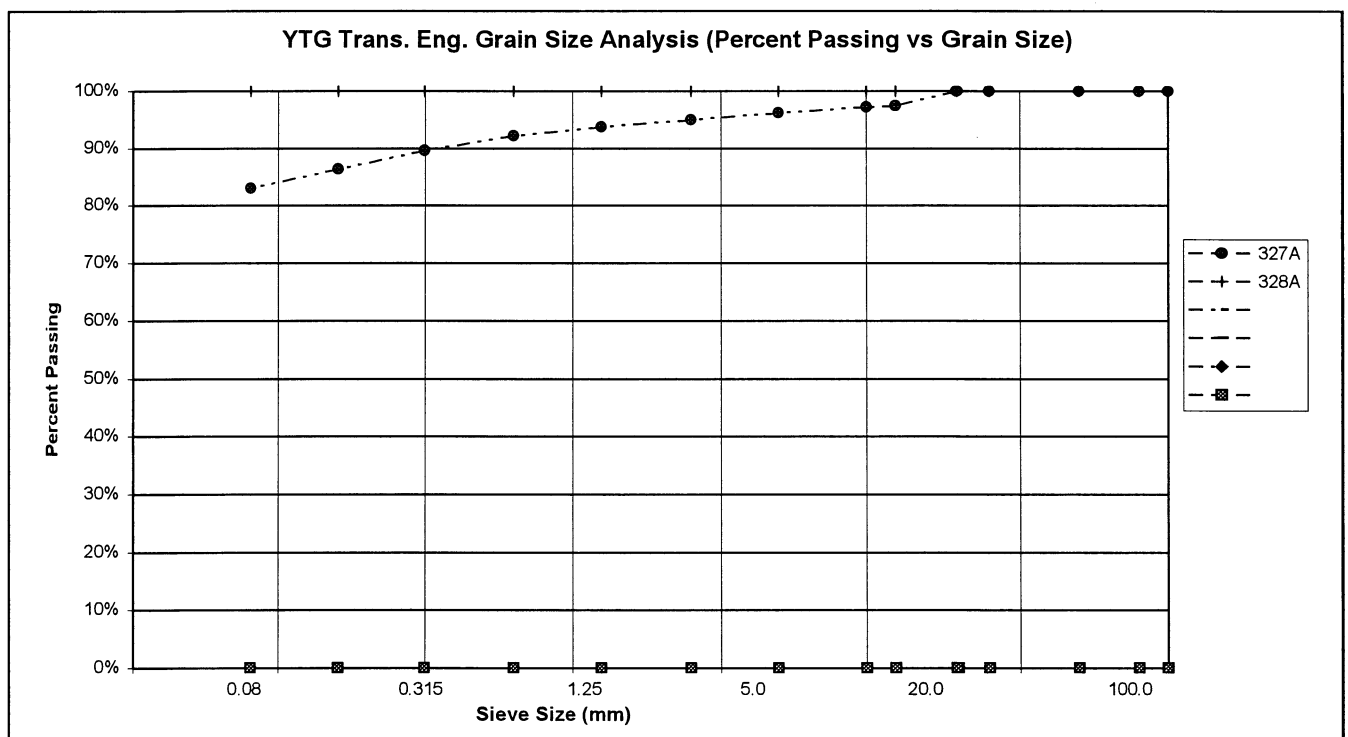


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1781+700 36M RT
 LOGGED BY: B.B.

HOLE No.: 605-203

DATE COMP: 2001/07/10

FIELD NO:	327A	328A			
LAB NO:	897	898			
DEPTH:	1.3-1.5	2.7-2.9 LOST			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	100%			
12.5	97%	100%			
10.0	97%	100%			
5.0	96%	100%			
2.5	95%	100%			
1.25	94%	100%			
0.630	92%	100%			
0.315	90%	100%			
0.160	86%	100%			
0.080	83%	100%			
M.C.(%):	63%	31%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	4	0			
% SAND:	13	0			
% FINES:	83	100			
CLASSIFICATION	SILT WITH SAND (ML)	CLAYEY SILT			

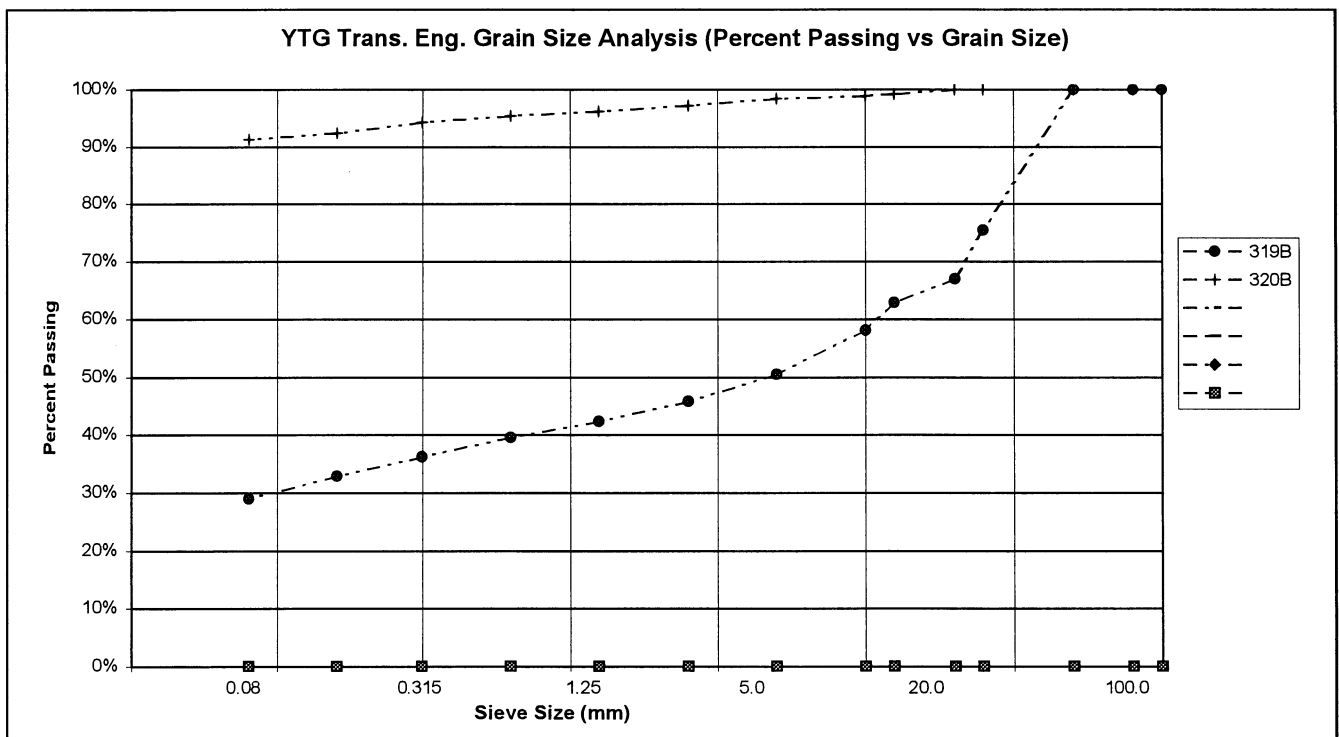


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1781+800 36M RT
 LOGGED BY: B.B.

HOLE No.: 605-204

DATE COMP: 2001/07/10

FIELD NO:	319B	320B			
LAB NO:	899	900			
DEPTH:	1.3-1.5	2.7-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	76%	100%			
20.0	67%	100%			
12.5	63%	99%			
10.0	58%	99%			
5.0	51%	98%			
2.5	46%	97%			
1.25	42%	96%			
0.630	40%	95%			
0.315	36%	94%			
0.160	33%	92%			
0.080	29%	91%			
M.C.(%):	34%	36%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	49	2			
% SAND:	22	7			
% FINES:	29	91			
CLASSIFICATION	SILTY GRAVEL WTH SAND (GM)	SILT (ML)			

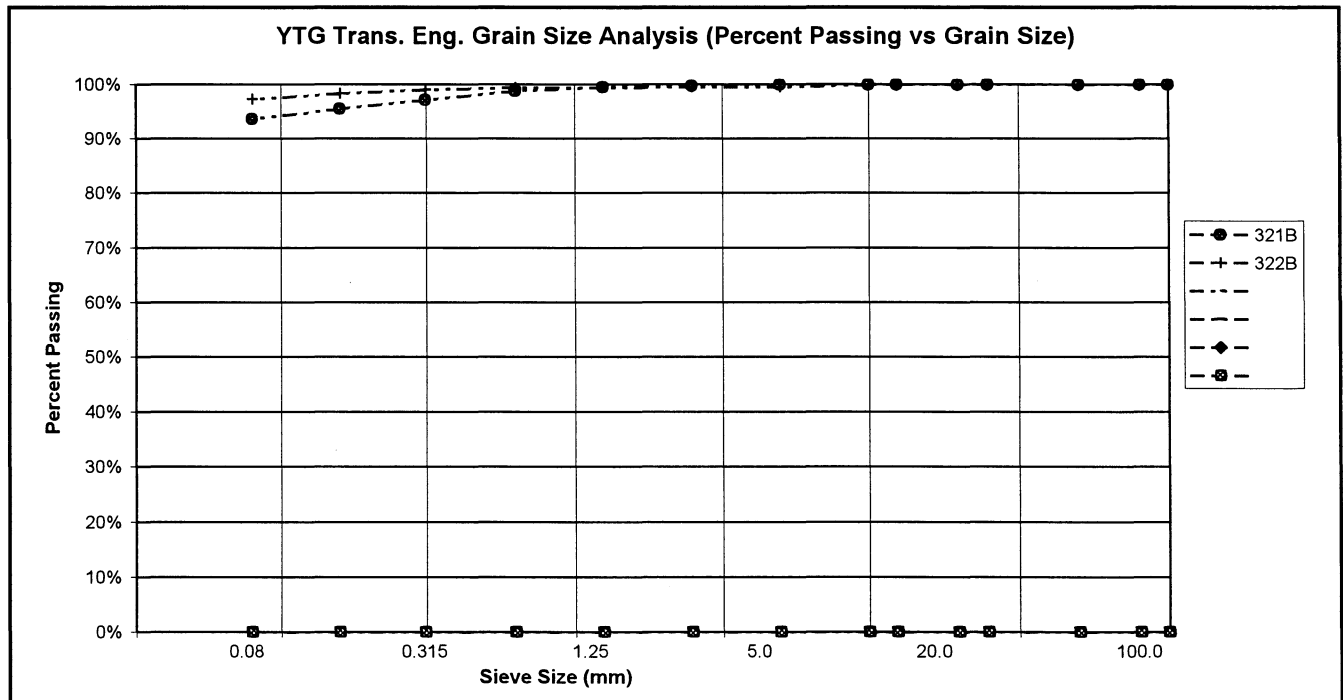


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1781+900 32M RT
 LOGGED BY: B.B..

HOLE No.: 605-205

DATE COMP: 2001/07/10

FIELD NO:	321B	322B			
LAB NO:	901	902			
DEPTH:	1.3-1.5	2.7-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	100%			
12.5	100%	100%			
10.0	100%	100%			
5.0	100%	100%			
2.5	100%	99%			
1.25	99%	99%			
0.630	99%	99%			
0.315	97%	99%			
0.160	96%	98%			
0.080	94%	97%			
M.C.(%):	28%	25%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	0	0			
% SAND:	6	2			
% FINES:	94	97			
CLASSIFICATION	SILT (ML)	SILT (ML)			

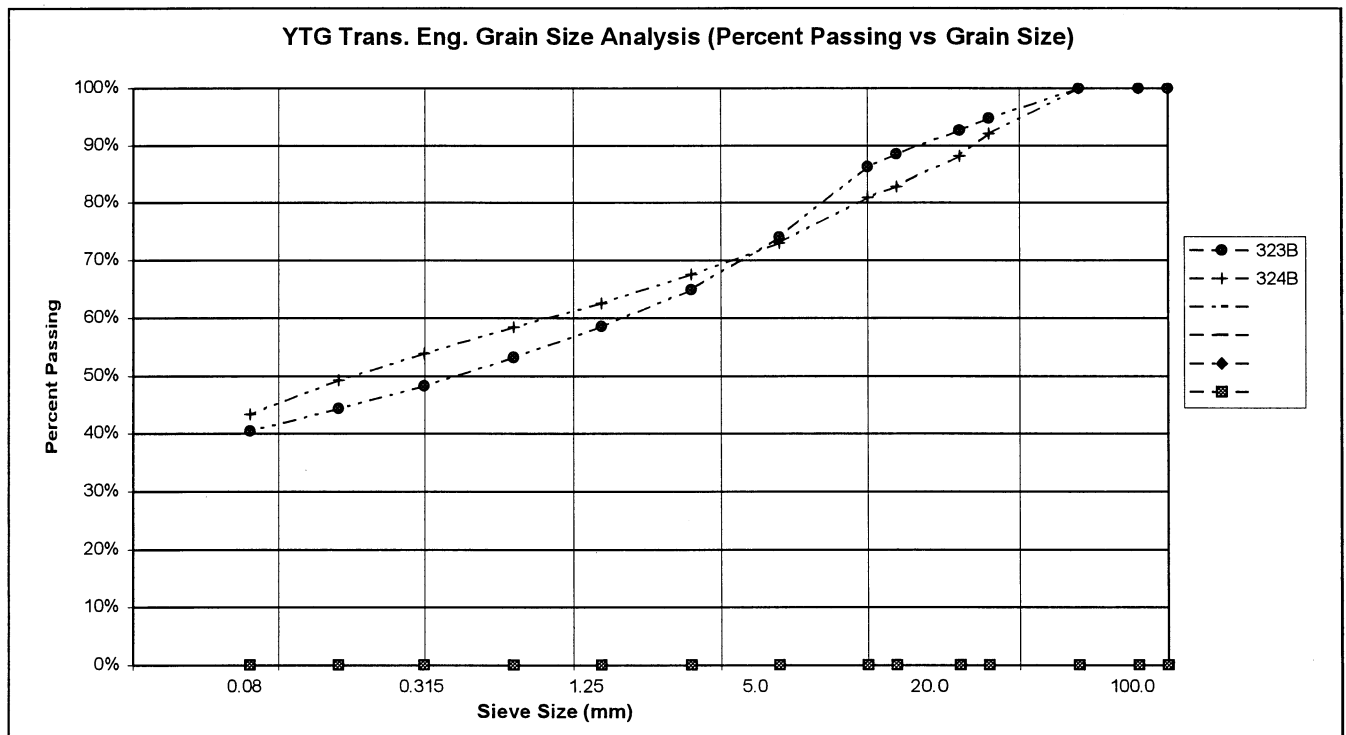


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1782+000 32M RT
 LOGGED BY: B.B..

HOLE No.: 605-206

DATE COMP: 2001/07/11

FIELD NO:	323B	324B			
LAB NO:	903	904			
DEPTH:	1.5-1.7	2.7-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	95%	92%			
20.0	93%	88%			
12.5	89%	83%			
10.0	86%	81%			
5.0	74%	73%			
2.5	65%	68%			
1.25	59%	63%			
0.630	53%	58%			
0.315	48%	54%			
0.160	44%	49%			
0.080	40%	43%			
M.C.(%):	31%	22%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	26	27			
% SAND:	34	30			
% FINES:	40	43			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)			

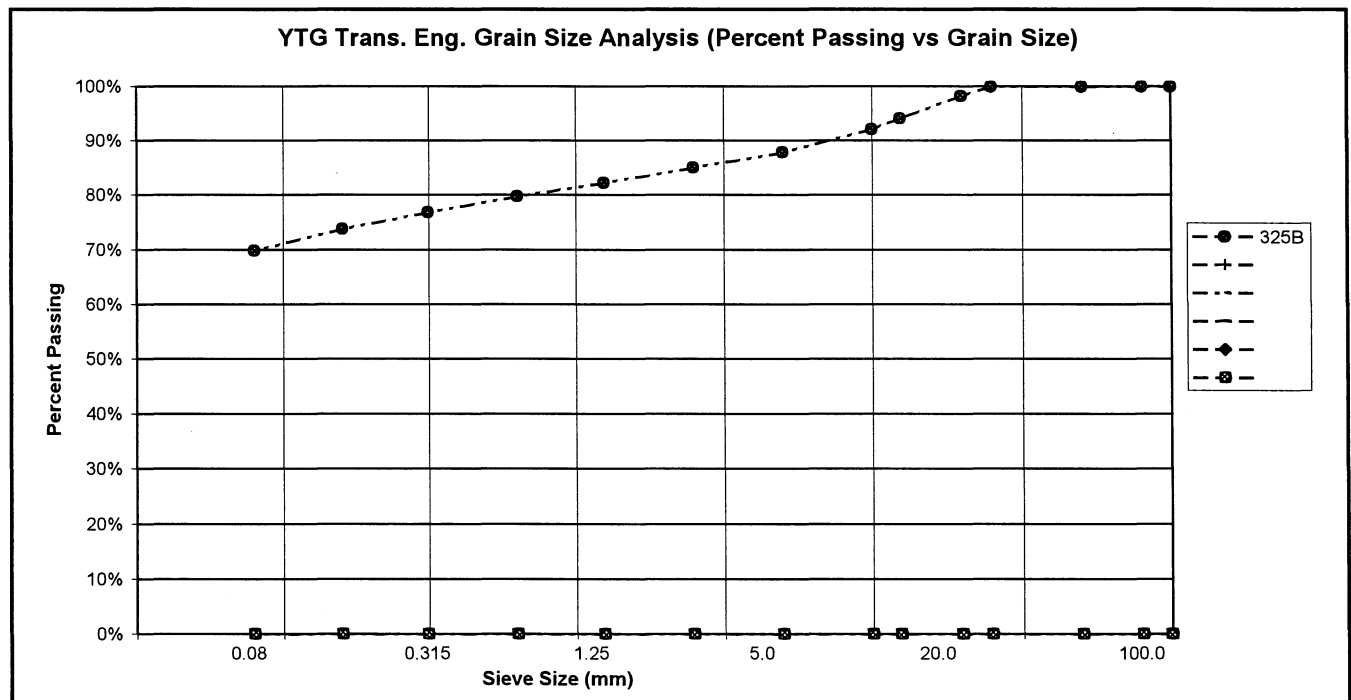


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1782+100 32M RT
 LOGGED BY: B.B.

HOLE No.: 605-207

DATE COMP: 2001/07/11

FIELD NO:	325B				
LAB NO:	905				
DEPTH:	2.7-2.9				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	98%				
12.5	94%				
10.0	92%				
5.0	88%				
2.5	85%				
1.25	82%				
0.630	80%				
0.315	77%				
0.160	74%				
0.080	70%				
M.C.(%)	43%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX:	0.0				
% GRAVEL:	12				
% SAND:	18				
% FINES:	70				
CLASSIFICATION	SANDY SILT (ML)				

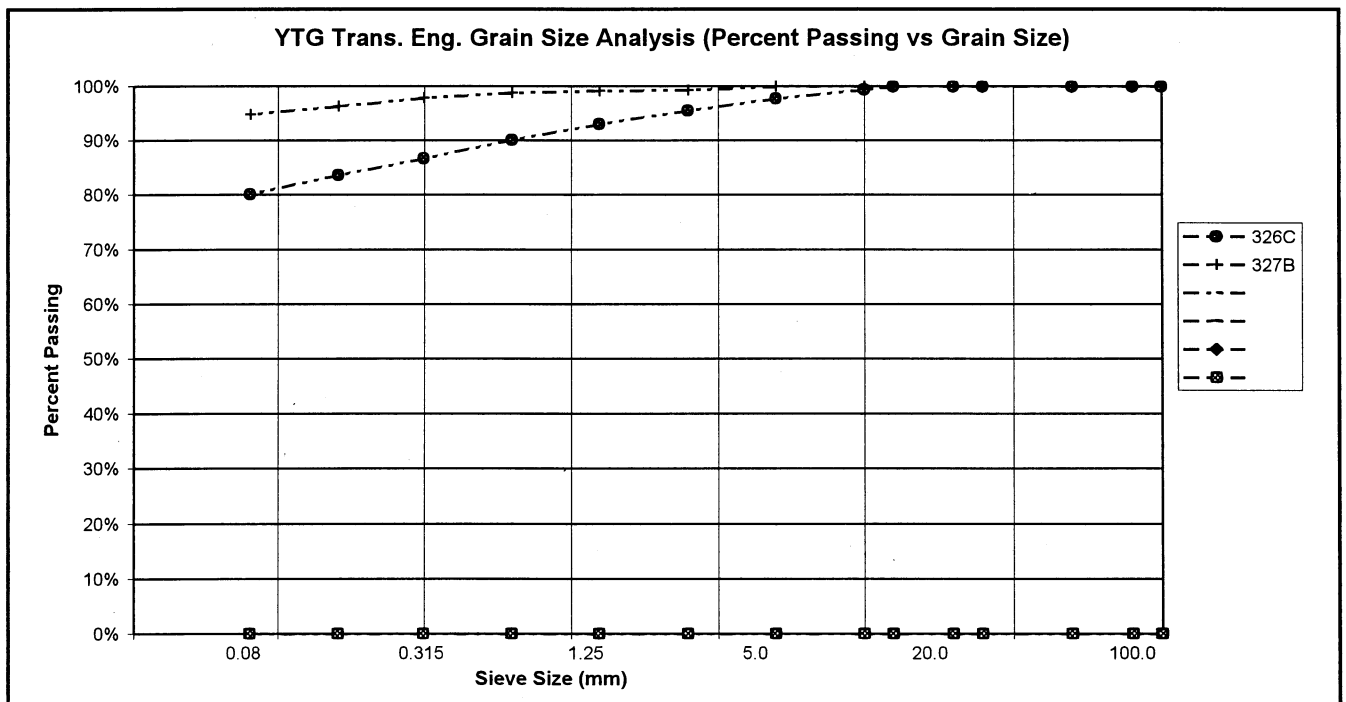


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1782+208 35M TR
 LOGGED BY: B.B.

HOLE No.: 606-208

DATE COMP: 2001/07/11

FIELD NO:	326C	327B			
LAB NO:	906	907			
DEPTH:	2.3-2.5	2.7-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	100%			
12.5	100%	100%			
10.0	99%	100%			
5.0	98%	100%			
2.5	96%	99%			
1.25	93%	99%			
0.630	90%	99%			
0.315	87%	98%			
0.160	84%	96%			
0.080	80%	95%			
M.C.(%)	49%	24%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	2	0			
% SAND:	18	5			
% FINES:	80	95			
CLASSIFICATION	SILT WITH SAND (ML)	SILT (ML)			

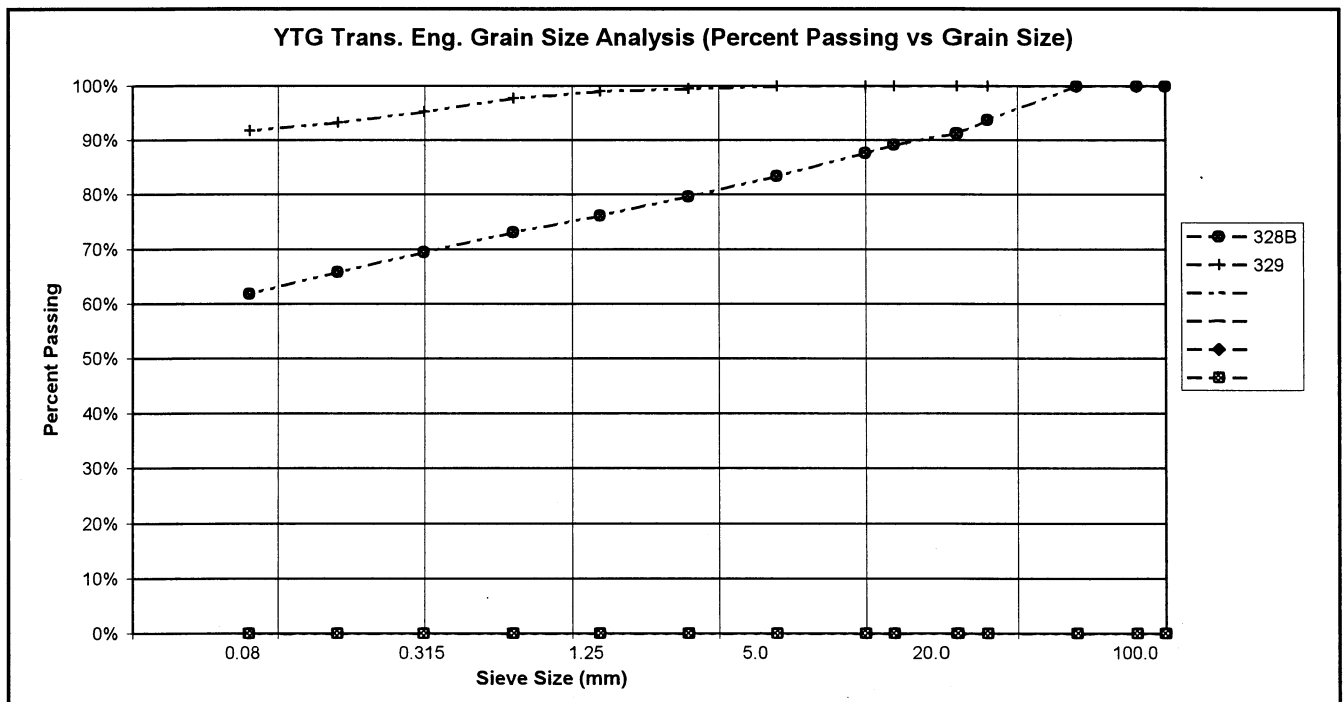


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 17872+296 33M RT
 LOGGED BY: B.B.

HOLE No.: 606-209

DATE COMP: 2001/07/11

FIELD NO:	328B	329			
LAB NO:	908	909			
DEPTH:	1.3-1.5	2.7-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	94%	100%			
20.0	91%	100%			
12.5	89%	100%			
10.0	88%	100%			
5.0	83%	100%			
2.5	80%	100%			
1.25	76%	99%			
0.630	73%	98%			
0.315	69%	95%			
0.160	66%	93%			
0.080	62%	92%			
M.C.(%):	30%	31%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	17	0			
% SAND:	22	8			
% FINES:	62	92			
CLASSIFICATION	SANDY SILT WITH GRAVEL (ML)	SILT (ML)			

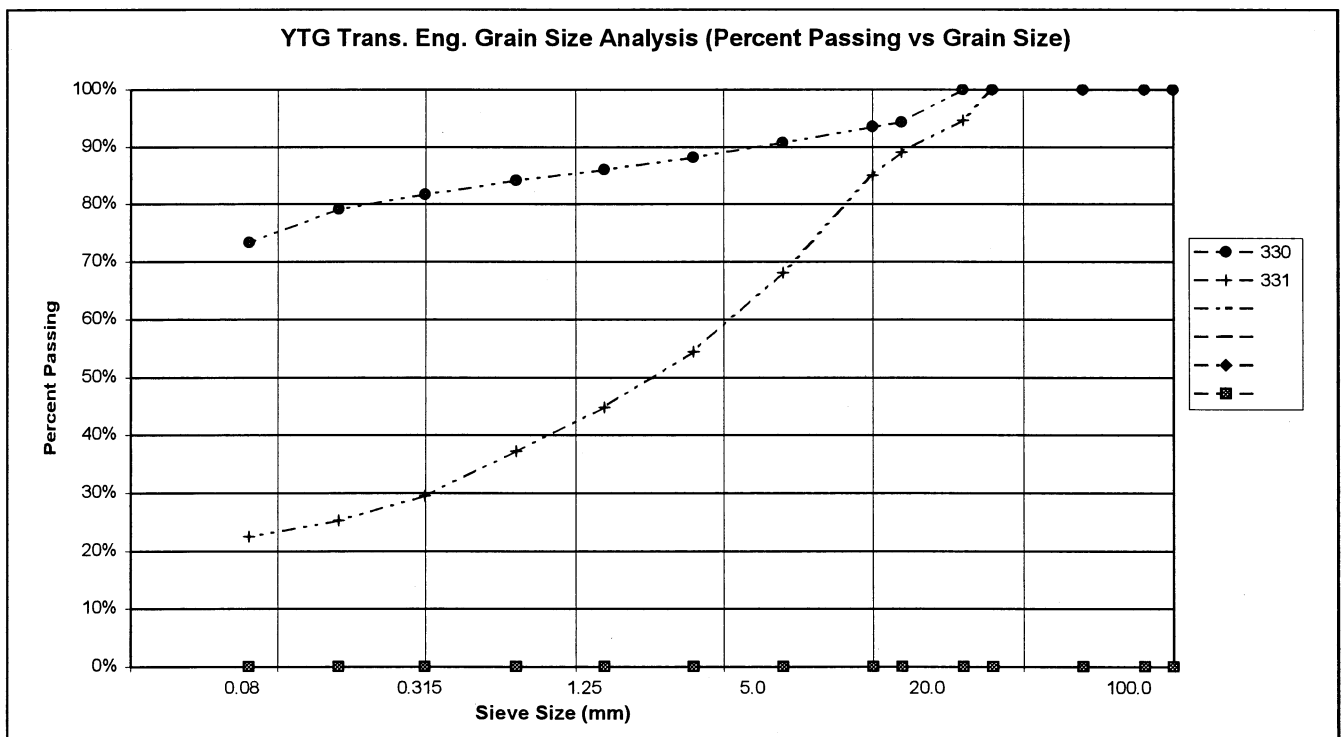


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1782+403 36M RT
 LOGGED BY: B.B.

HOLE No.: 606-210

DATE COMP: 2001/07/11

FIELD NO:	330	331			
LAB NO:	910	911			
DEPTH:	1.3-1.5	27-29			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	95%			
12.5	94%	89%			
10.0	93%	85%			
5.0	91%	68%			
2.5	88%	54%			
1.25	86%	45%			
0.630	84%	37%			
0.315	82%	30%			
0.160	79%	25%			
0.080	73%	23%			
M.C.(%):	64%	11%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	9	32			
% SAND:	17	46			
% FINES:	73	23			
CLASSIFICATION	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)			

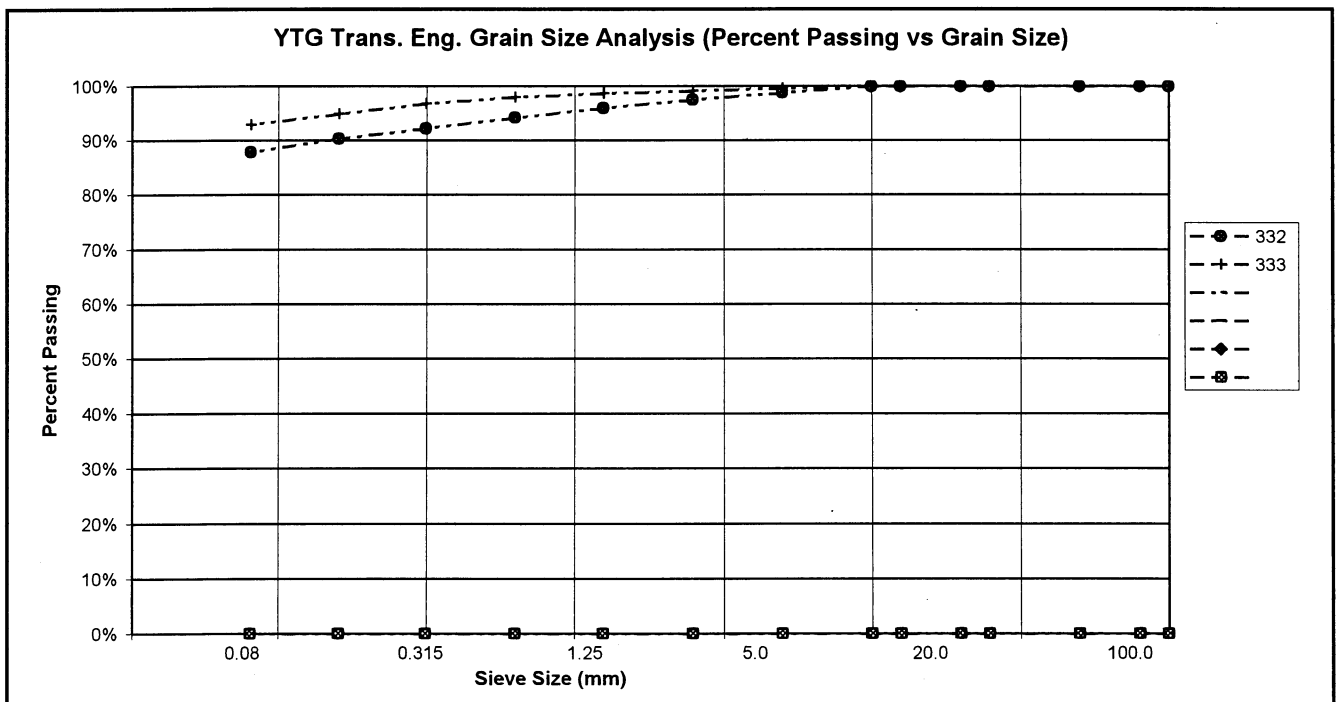


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1782+497 37M RT
 LOGGED BY: B.B.

HOLE No.: 606-211

DATE COMP: 2001/07/11

FIELD NO:	332	333			
LAB NO:	912	913			
DEPTH:	1.3-1.5	2.7-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	100%			
12.5	100%	100%			
10.0	100%	100%			
5.0	99%	100%			
2.5	98%	99%			
1.25	96%	99%			
0.630	94%	98%			
0.315	92%	97%			
0.160	90%	95%			
0.080	88%	93%			
M.C.(%):	36%	31%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	1	0			
% SAND:	11	7			
% FINES:	88	93			
CLASSIFICATION	SILT (ML)	SILT (ML)			

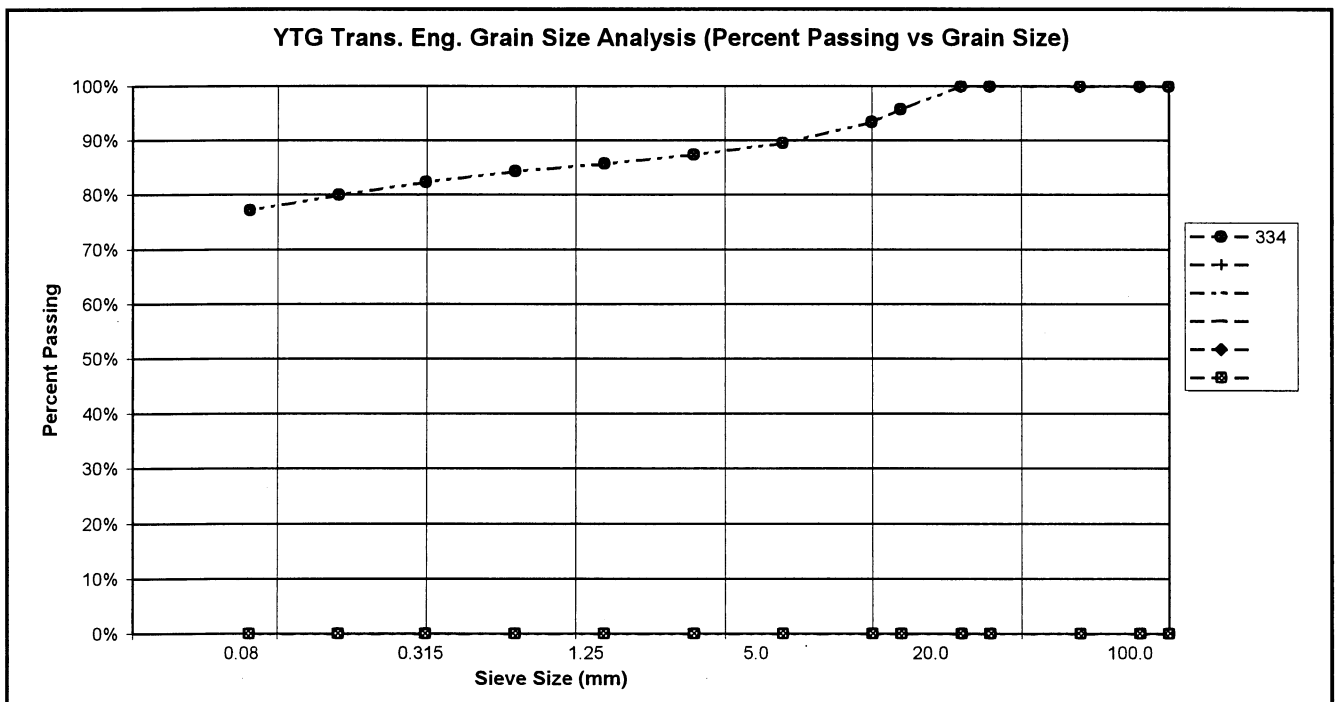


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1782+595 35M RT
 LOGGED BY: B.B.

HOLE No.: 606-212

DATE COMP: 2001/07/11

FIELD NO:	334				
LAB NO:	914				
DEPTH:	2.7-2.9				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	100%				
12.5	96%				
10.0	93%				
5.0	90%				
2.5	87%				
1.25	86%				
0.630	84%				
0.315	82%				
0.160	80%				
0.080	77%				
M.C.(%):	31%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	10				
% SAND:	12				
% FINES:	77				
CLASSIFICATION	SILT WITH SAND (ML)				

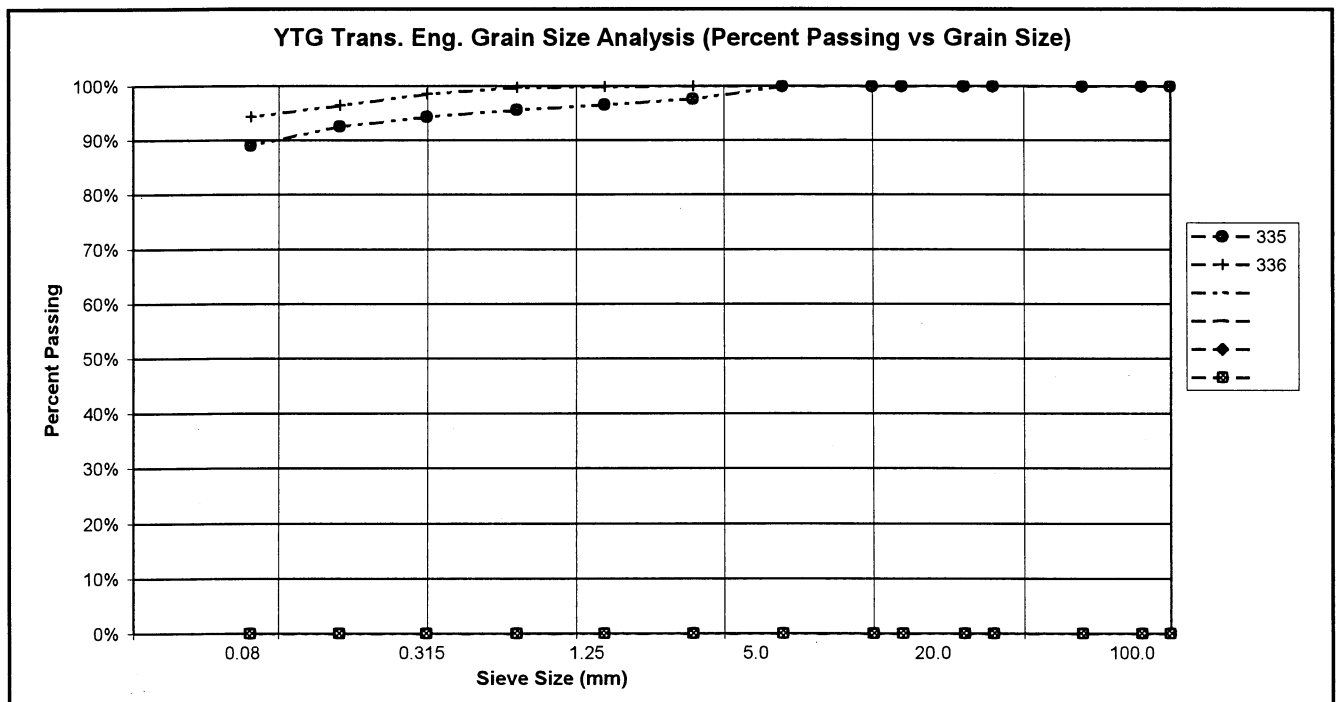


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1782+697 33M RT
 LOGGED BY: B.B.

HOLE No.: 606-213

DATE COMP: 2001/07/11

FIELD NO:	335	336			
LAB NO:	915	916			
DEPTH:	1.5-1.7	2.7-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	100%			
12.5	100%	100%			
10.0	100%	100%			
5.0	100%	100%			
2.5	98%	100%			
1.25	97%	100%			
0.630	96%	100%			
0.315	94%	99%			
0.160	93%	97%			
0.080	89%	94%			
M.C.(%)	45%	42%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	0	0			
% SAND:	11	6			
% FINES:	89	94			
CLASSIFICATION	SILT (ML)	SILT (ML)			

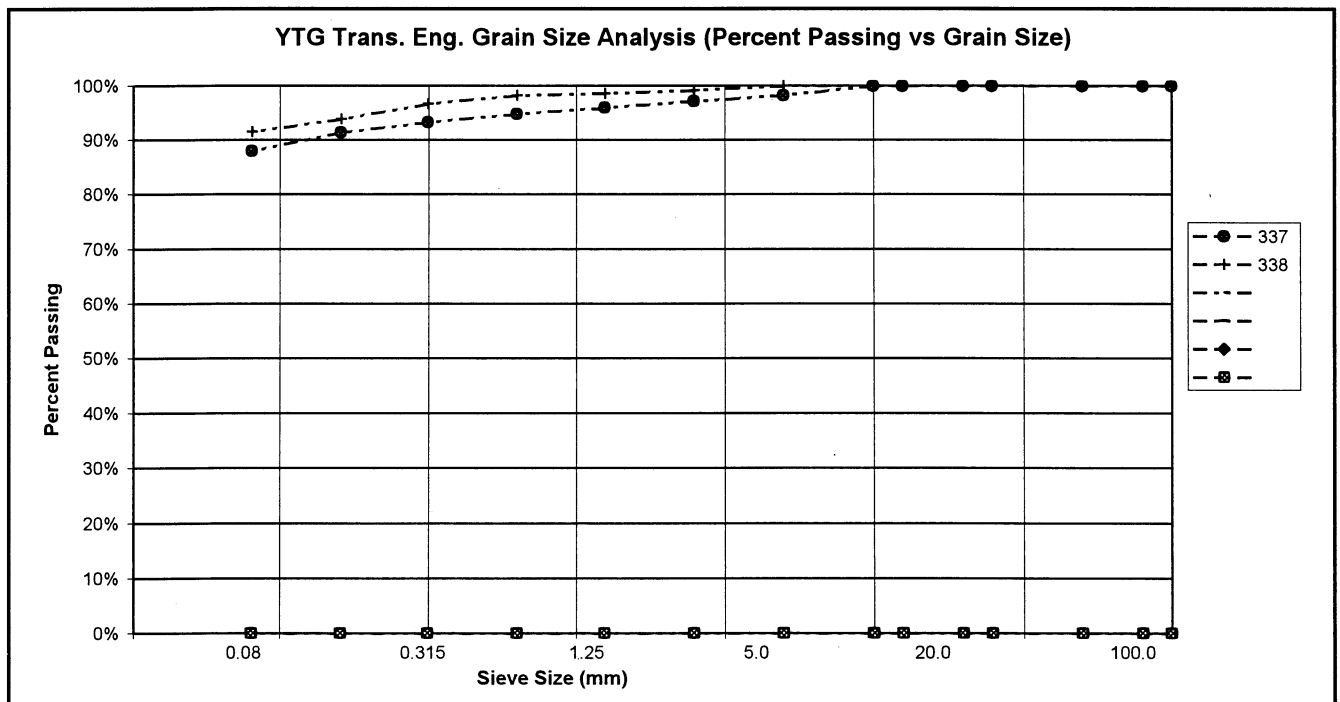


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1782+792 35M RT
 LOGGED BY: B.B.

HOLE No.: 606-214

DATE COMP: 2001/07/11

FIELD NO:	337	338			
LAB NO:	917	918			
DEPTH:	1.3-1.5	2.7-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	100%			
12.5	100%	100%			
10.0	100%	100%			
5.0	98%	100%			
2.5	97%	99%			
1.25	96%	99%			
0.630	95%	98%			
0.315	93%	97%			
0.160	91%	94%			
0.080	88%	91%			
M.C.(%)	36%	37%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	2	0			
% SAND:	10	8			
% FINES:	88	91			
CLASSIFICATION	SILT (ML)	SILT (ML)			

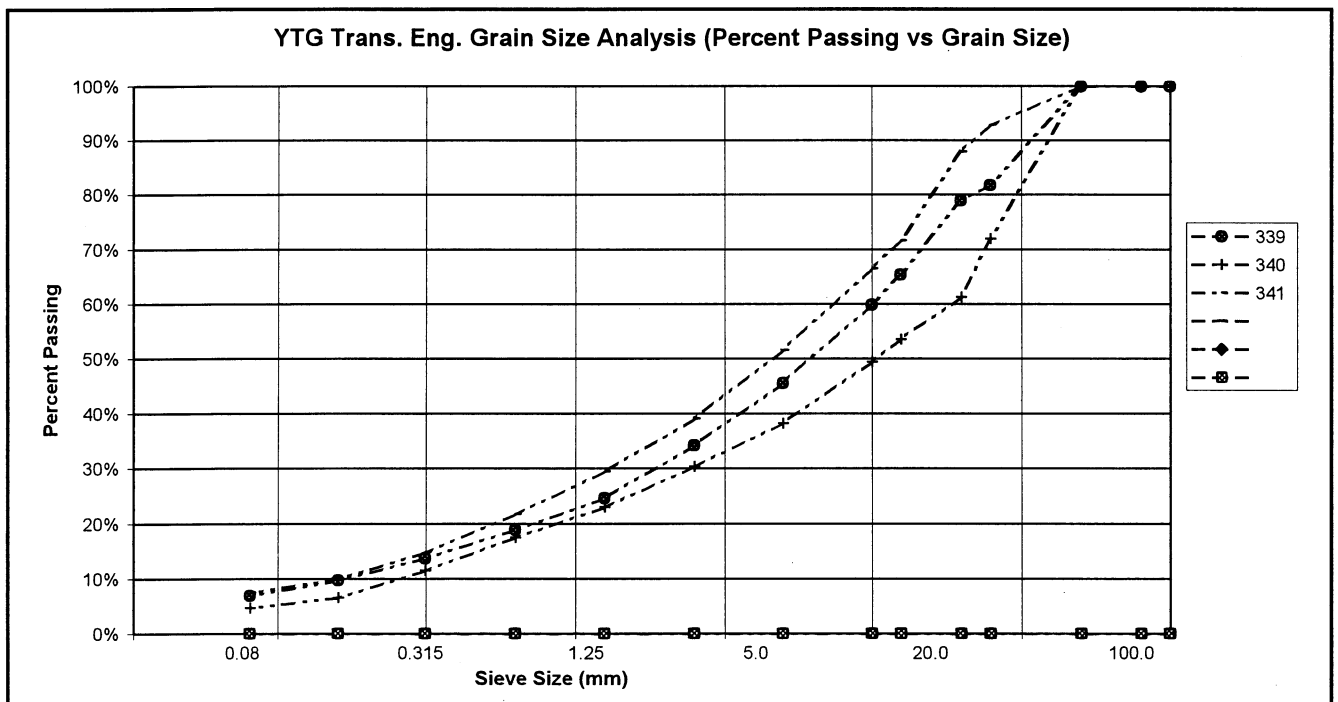


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1778+349 6M LT
 LOGGED BY: B.B.

HOLE No.: 606-215

DATE COMP: 2001/07/12

FIELD NO:	339	340	341		
LAB NO:	919	920	921		
DEPTH:	1.3-1.5	2.8-3.0	4.2-4.3		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	82%	72%	93%		
20.0	79%	61%	88%		
12.5	65%	54%	72%		
10.0	60%	49%	66%		
5.0	46%	38%	52%		
2.5	34%	30%	39%		
1.25	25%	23%	29%		
0.630	19%	17%	22%		
0.315	14%	11%	15%		
0.160	10%	7%	10%		
0.080	7%	5%	7%		
M.C.(%)	6%	5%	3%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	54	62	48		
% SAND:	39	34	44		
% FINES:	7	5	7		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		

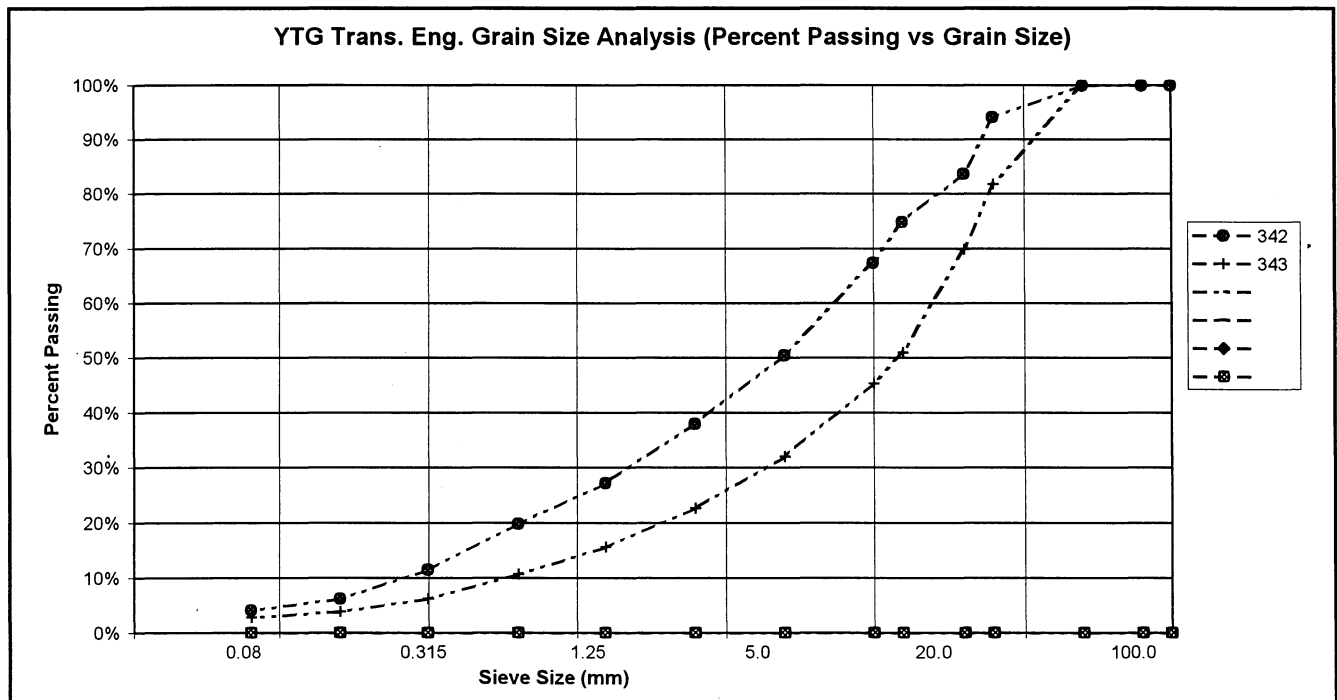


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1778+451 16M LT
 LOGGED BY: B.B.

HOLE No.: 606-216

DATE COMP: 2001/07/12

FIELD NO:	342	343			
LAB NO:	922	923			
DEPTH:	1.3-1.5	4.2-4.3			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	94%	82%			
20.0	84%	70%			
12.5	75%	51%			
10.0	67%	45%			
5.0	50%	32%			
2.5	38%	23%			
1.25	27%	16%			
0.630	20%	11%			
0.315	12%	6%			
0.160	6%	4%			
0.080	4%	3%			
M.C.(%):	2%	2%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	50	68			
% SAND:	46	29			
% FINES:	4	3			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SAND (GP)			

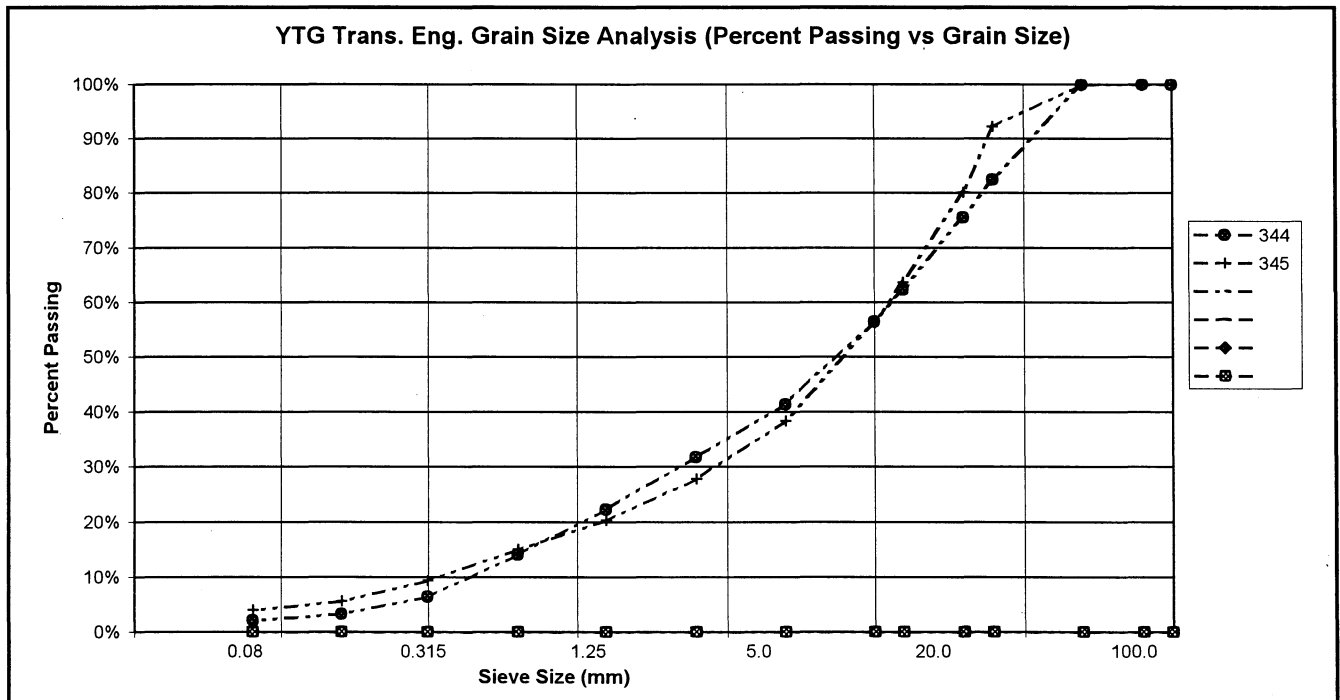


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1778+551 13M LT
 LOGGED BY: B.B.

HOLE No.: 606-217

DATE COMP: 2001/07/12

FIELD NO:	344	345			
LAB NO:	924	925			
DEPTH:	1.3-1.5	4.2-4.3			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	83%	92%			
20.0	76%	80%			
12.5	62%	64%			
10.0	57%	56%			
5.0	41%	38%			
2.5	32%	28%			
1.25	22%	20%			
0.630	14%	15%			
0.315	6%	9%			
0.160	3%	6%			
0.080	2%	4%			
M.C.(%)	2%	5%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	59	62			
% SAND:	39	34			
% FINES:	2	4			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SAND (GP)			

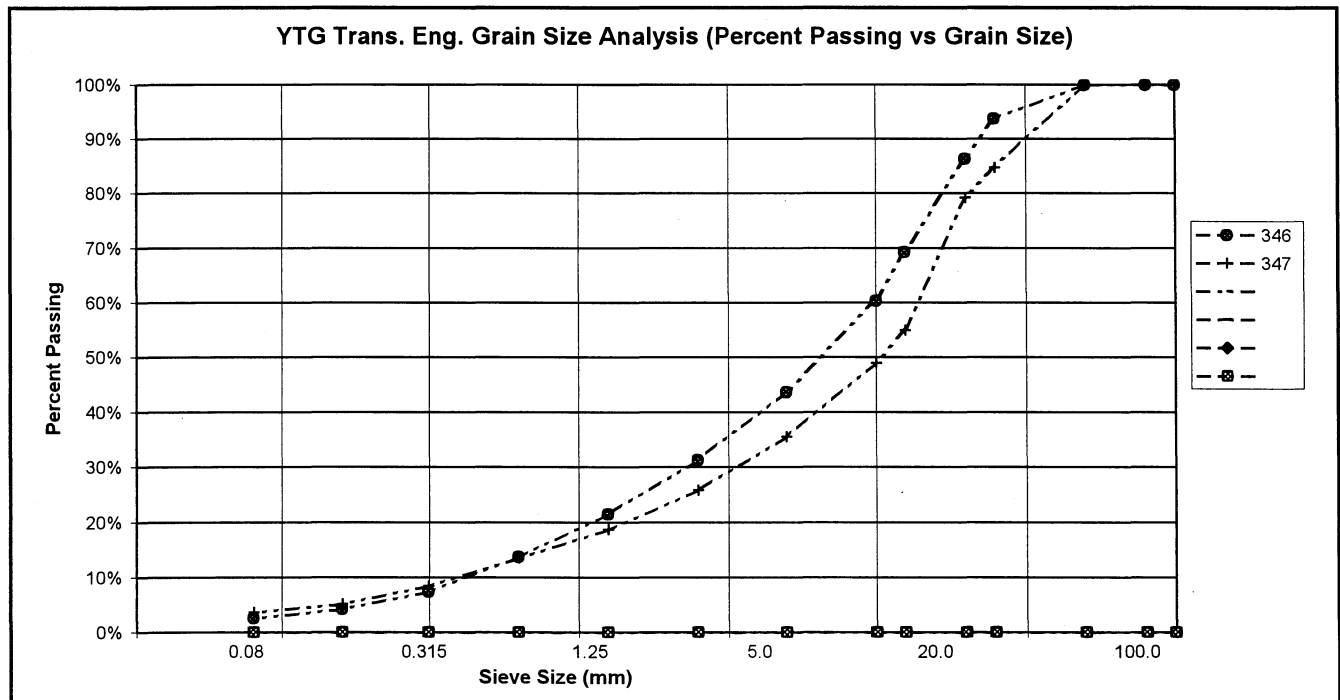


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1778+650 2M LT
 LOGGED BY: B.B.

HOLE No.: 606-218

DATE COMP: 2001/07/12

FIELD NO:	346	347			
LAB NO:	926	927			
DEPTH:	1.2-1.3	4.2-4.3			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	94%	85%			
20.0	86%	79%			
12.5	69%	55%			
10.0	60%	49%			
5.0	44%	36%			
2.5	31%	26%			
1.25	22%	19%			
0.630	14%	14%			
0.315	7%	8%			
0.160	4%	5%			
0.080	3%	4%			
M.C.(%)	2%	2%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	56	64			
% SAND:	41	32			
% FINES:	3	4			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SAND (GP)			

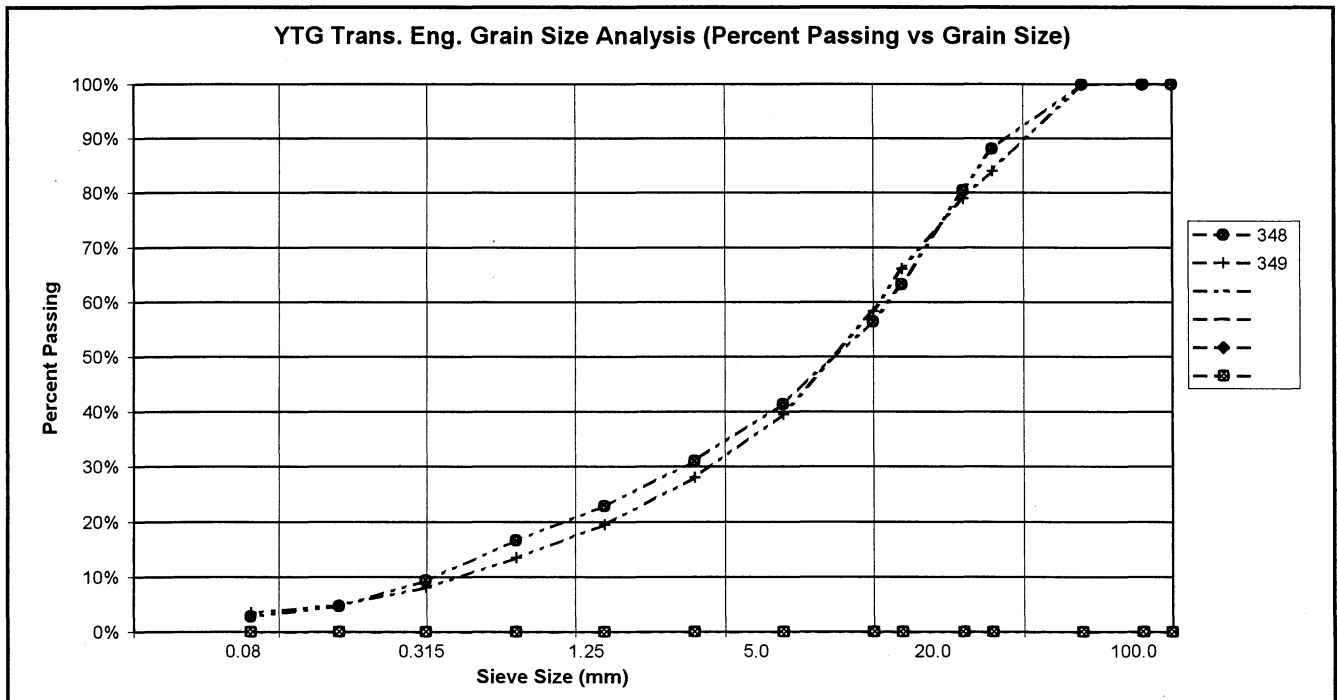


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1778+749 2M RT
 LOGGED BY: B.B.

HOLE No.: 606-219

DATE COMP: 2001/07/12

FIELD NO:	348	349			
LAB NO:	928	929			
DEPTH:	1.2-1.3	4.2-4.3			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	88%	84%			
20.0	81%	79%			
12.5	63%	66%			
10.0	56%	58%			
5.0	41%	40%			
2.5	31%	28%			
1.25	23%	20%			
0.630	17%	14%			
0.315	9%	8%			
0.160	5%	5%			
0.080	3%	4%			
M.C.(%)	2%	2%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	59	60			
% SAND:	39	36			
% FINES:	3	4			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SAND (GP)			

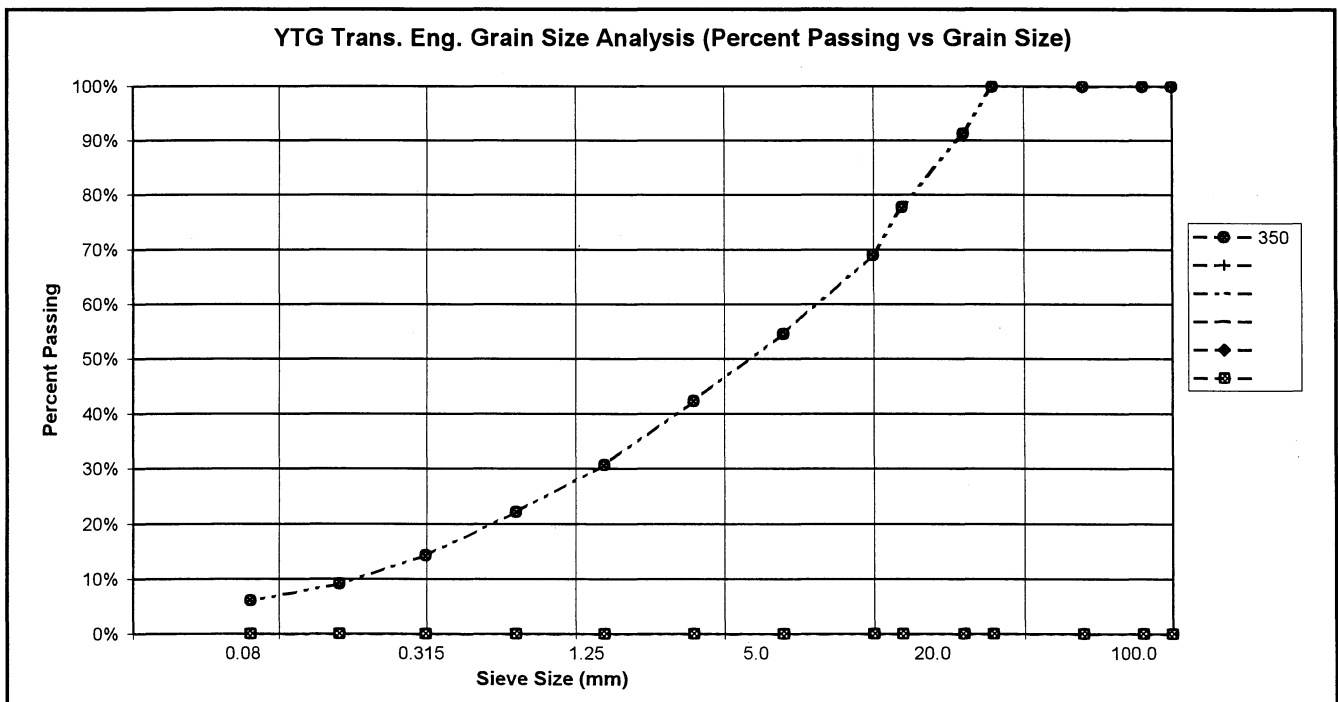


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1778+849 2M RT
 LOGGED BY: B.B.

HOLE No.: 606-220

DATE COMP: 2001/07/12

FIELD NO:	350				
LAB NO:	930				
DEPTH:	4.2-4.3				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	91%				
12.5	78%				
10.0	69%				
5.0	55%				
2.5	42%				
1.25	31%				
0.630	22%				
0.315	14%				
0.160	9%				
0.080	6%				
M.C.(%):	3%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	45				
% SAND:	48				
% FINES:	6				
CLASSIFICATION	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)				

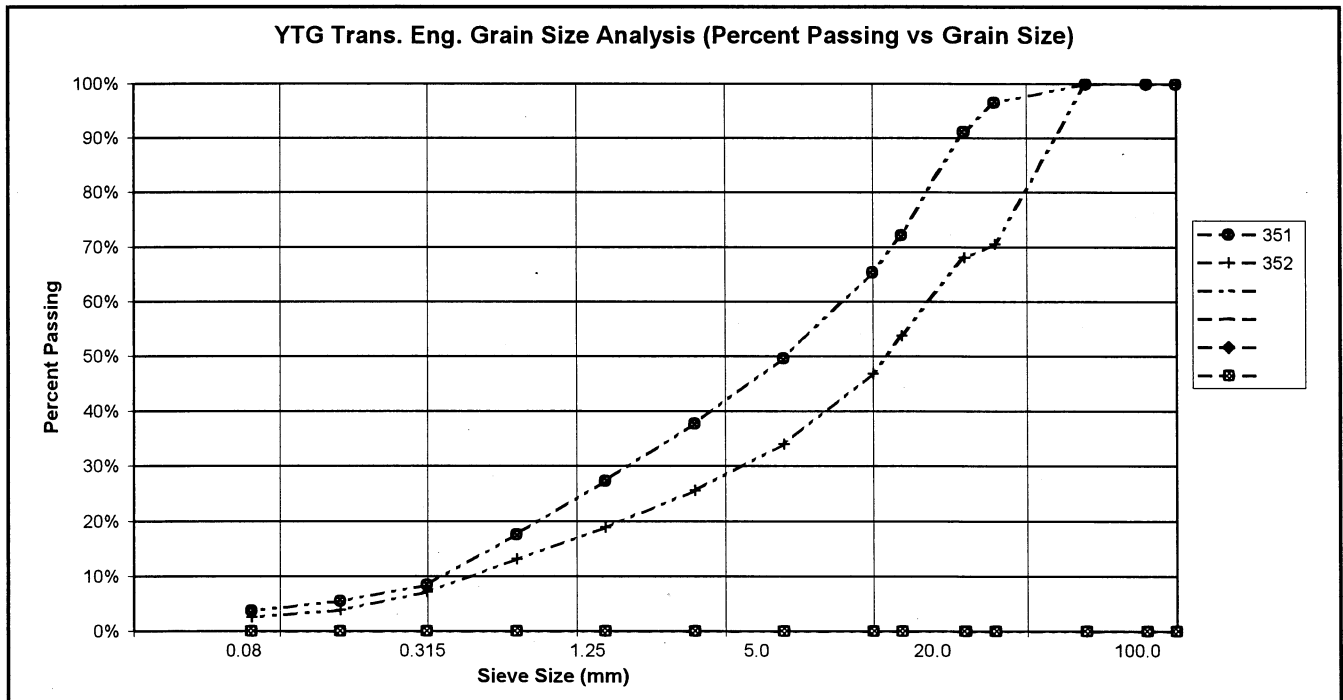


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1778+949 3M LT
 LOGGED BY: B.B.

HOLE No.: 606-221

DATE COMP: 2001/07/12

FIELD NO:	351	352			
LAB NO:	931	932			
DEPTH:	1.2-1.3	4.2-4.3			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	97%	70%			
20.0	91%	68%			
12.5	72%	54%			
10.0	65%	47%			
5.0	50%	34%			
2.5	38%	26%			
1.25	27%	19%			
0.630	18%	13%			
0.315	8%	7%			
0.160	6%	4%			
0.080	4%	3%			
M.C.(%):	2%	2%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	50	66			
% SAND:	46	32			
% FINES:	4	3			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SAND (GP)			

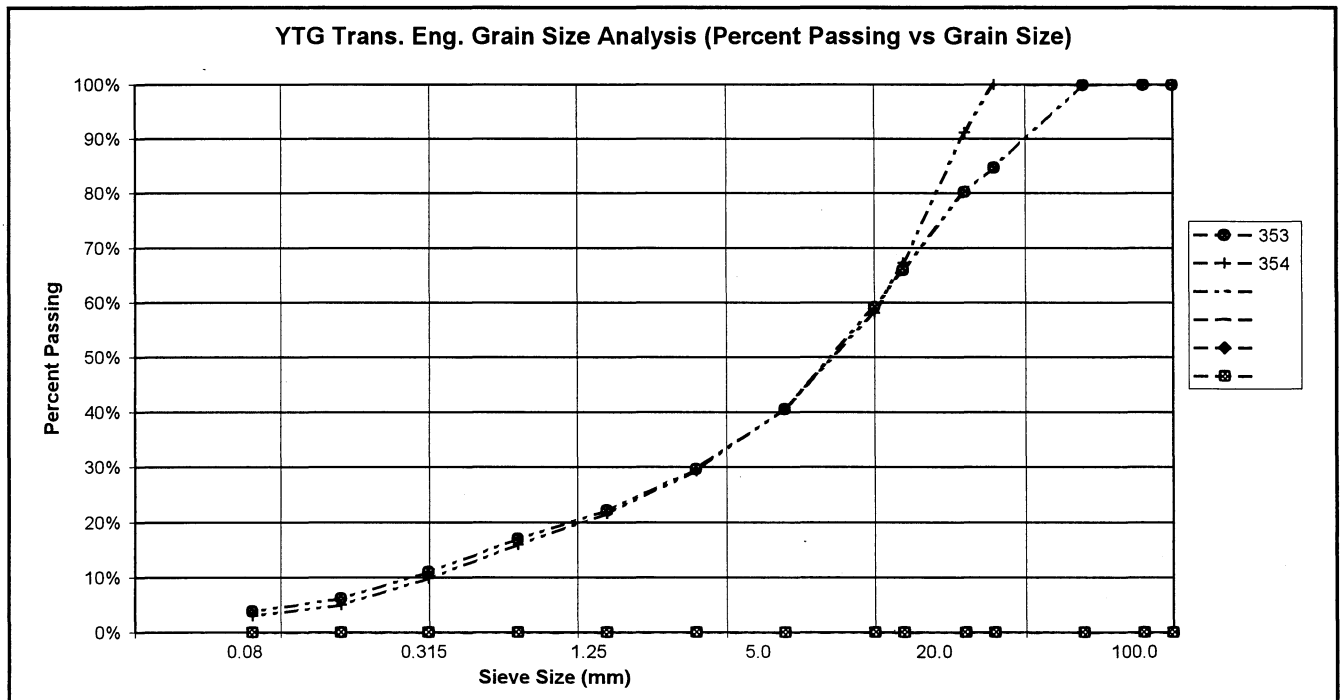


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1779+034 4M LT
 LOGGED BY: B.B.

HOLE No.: 606-222

DATE COMP: 2001/07/12

FIELD NO:	353	354			
LAB NO:	933	934			
DEPTH:	1.2-1.3	4.2-4.3			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	85%	100%			
20.0	80%	91%			
12.5	66%	67%			
10.0	59%	58%			
5.0	41%	41%			
2.5	30%	29%			
1.25	22%	22%			
0.630	17%	16%			
0.315	11%	10%			
0.160	6%	5%			
0.080	4%	3%			
M.C.(%):	2%	2%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	59	59			
% SAND:	37	38			
% FINES:	4	3			
CLASSIFICATION	WELL-GRADED GRAVEL WITH SAND (GW)	POORLY GRADED GRAVEL WITH SAND (GP)			

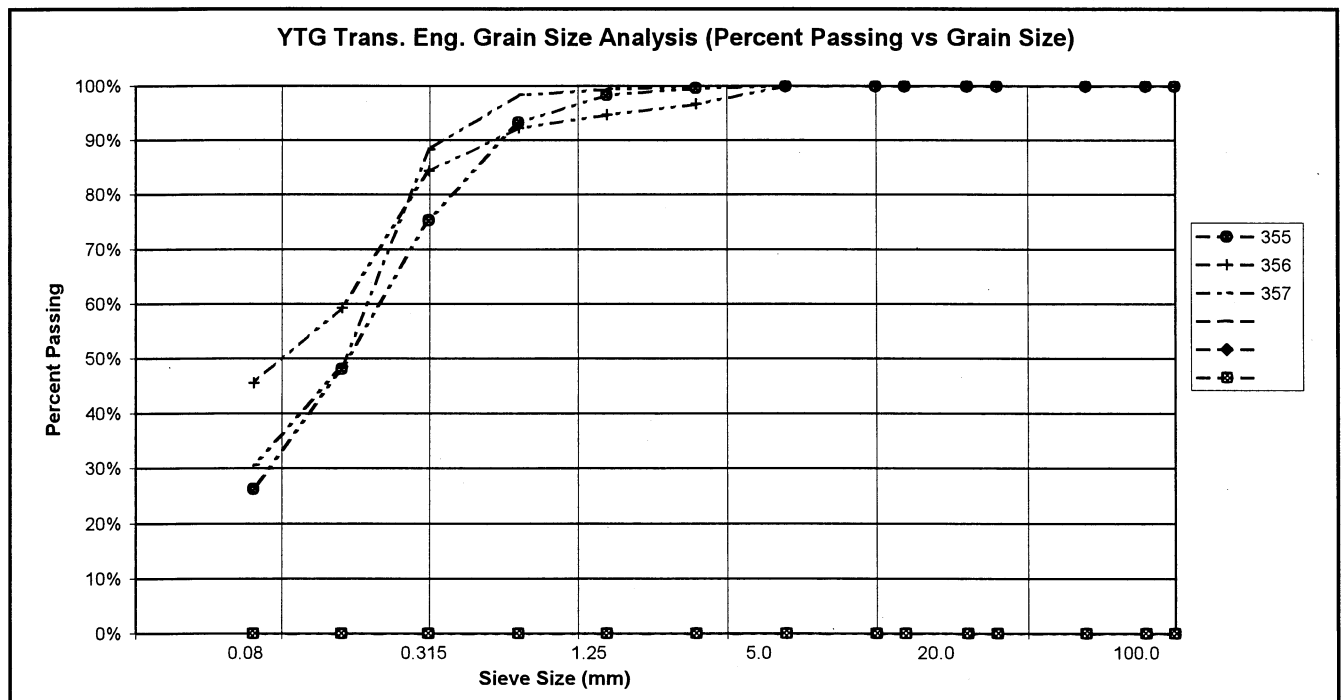


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1779+154 3M RT
 LOGGED BY: B.B.

HOLE No.: 606-223

DATE COMP: 2001/07/12

FIELD NO:	355	356	357		
LAB NO:	935	936	937		
DEPTH:	1.2-1.3	3.2-3.3	4.2-4.3		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	100%	100%		
20.0	100%	100%	100%		
12.5	100%	100%	100%		
10.0	100%	100%	100%		
5.0	100%	100%	100%		
2.5	100%	97%	100%		
1.25	98%	95%	99%		
0.630	93%	92%	98%		
0.315	75%	84%	88%		
0.160	48%	59%	48%		
0.080	26%	46%	31%		
M.C.(%)	13%	27%	45%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0		
% GRAVEL:	0	0	0		
% SAND:	74	54	69		
% FINES:	26	46	31		
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND (SM)	SILTY SAND (SM)		

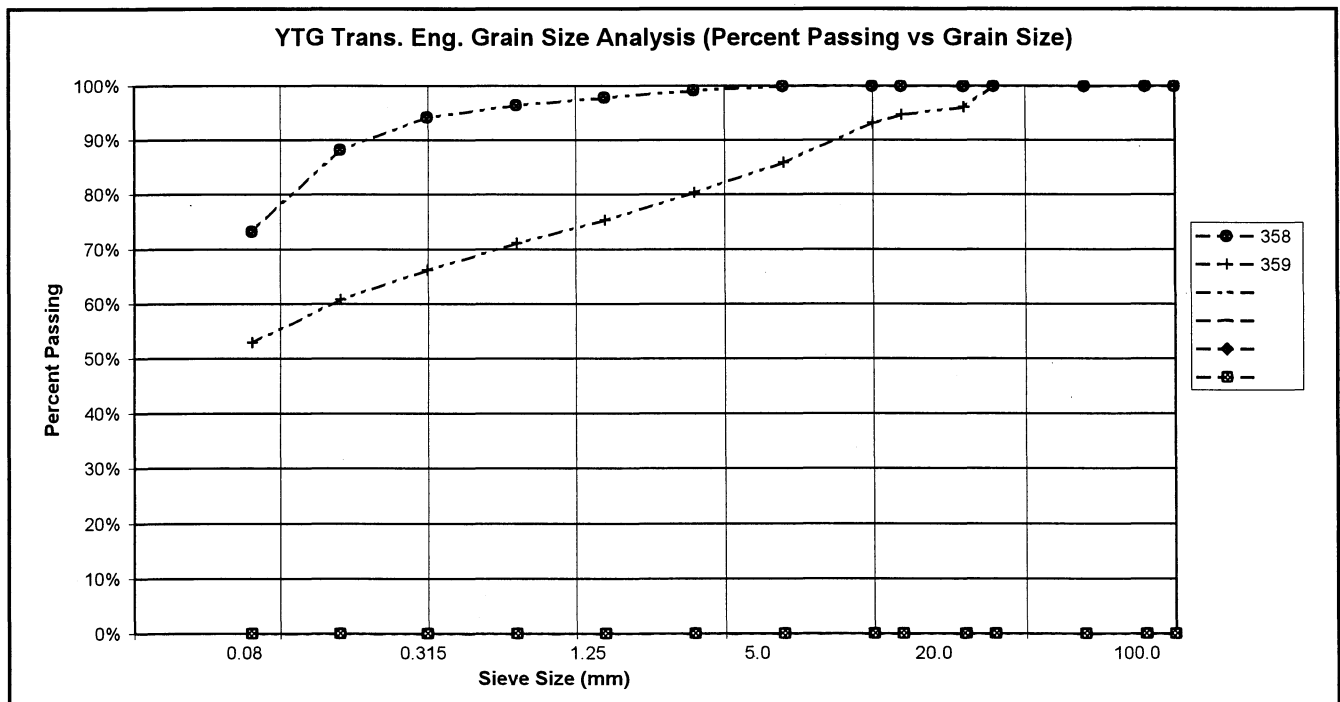


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1779+192 6M LT
 LOGGED BY: B.B.

HOLE No.: 606-224

DATE COMP: 2001/07/12

FIELD NO:	358	359			
LAB NO:	938	939			
DEPTH:	1.3-1.5	4.2-4.3			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	96%			
12.5	100%	95%			
10.0	100%	93%			
5.0	100%	86%			
2.5	99%	80%			
1.25	98%	75%			
0.630	96%	71%			
0.315	94%	66%			
0.160	88%	61%			
0.080	73%	53%			
M.C.(%):	88%	20%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	0	14			
% SAND:	27	33			
% FINES:	73	53			
CLASSIFICATION	SILT WITH SAND (ML)	SANDY SILT (ML)			

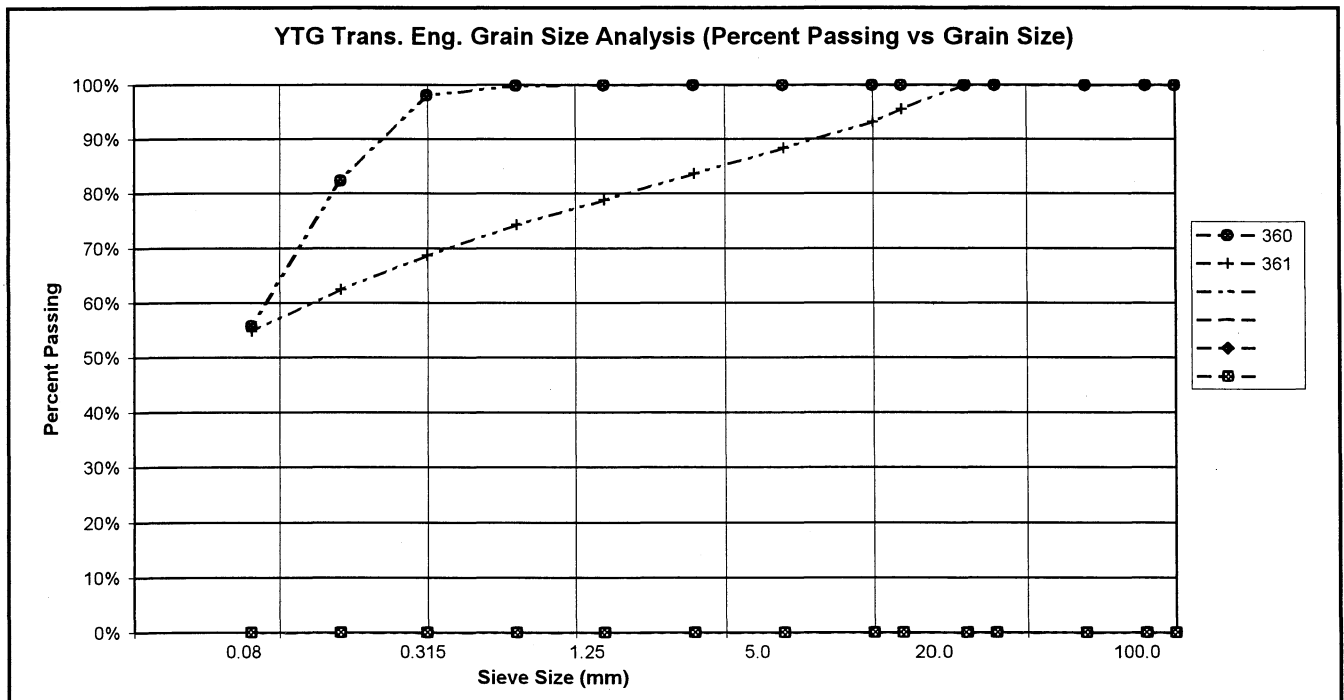


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1779+192 20M LT
 LOGGED BY: B.B.

HOLE No.: 606-225

DATE COMP: 2001/07/12

FIELD NO:	360	361			
LAB NO:	940	941			
DEPTH:	1.3-1.5	4.2-4.3			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	100%			
12.5	100%	96%			
10.0	100%	93%			
5.0	100%	88%			
2.5	100%	84%			
1.25	100%	79%			
0.630	100%	74%			
0.315	98%	69%			
0.160	82%	62%			
0.080	56%	55%			
M.C.(%):	46%	38%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	0	12			
% SAND:	44	34			
% FINES:	56	55			
CLASSIFICATION	SANDY SILT (ML)	SANDY SILT (ML)			

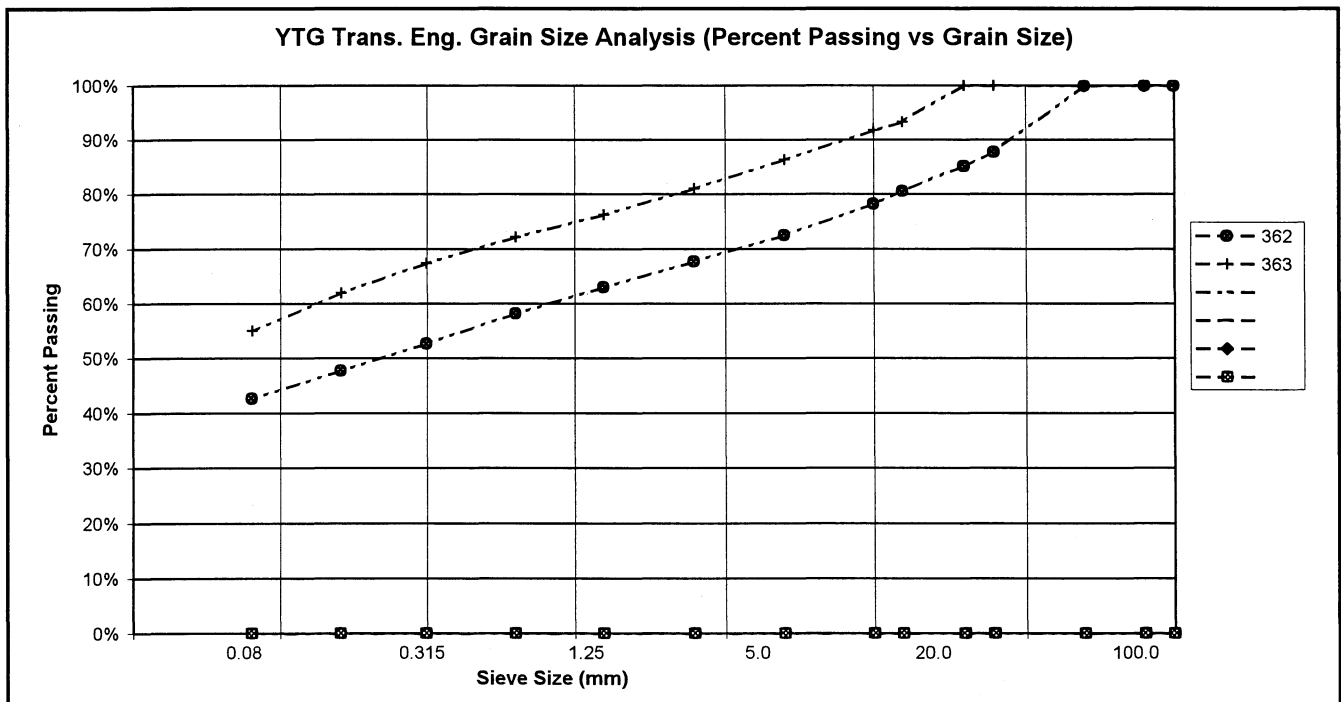


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1779+192 19M RT
 LOGGED BY: B.B.

HOLE No.: 606-226

DATE COMP: 2001/07/12

FIELD NO:	362	363			
LAB NO:	942	943			
DEPTH:	1.3-1.5	2.3-2.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	88%	100%			
20.0	85%	100%			
12.5	81%	93%			
10.0	78%	92%			
5.0	72%	86%			
2.5	68%	81%			
1.25	63%	76%			
0.630	58%	72%			
0.315	53%	67%			
0.160	48%	62%			
0.080	43%	55%			
M.C.(%):	31%	14%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	28	14			
% SAND:	30	31			
% FINES:	43	55			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)			

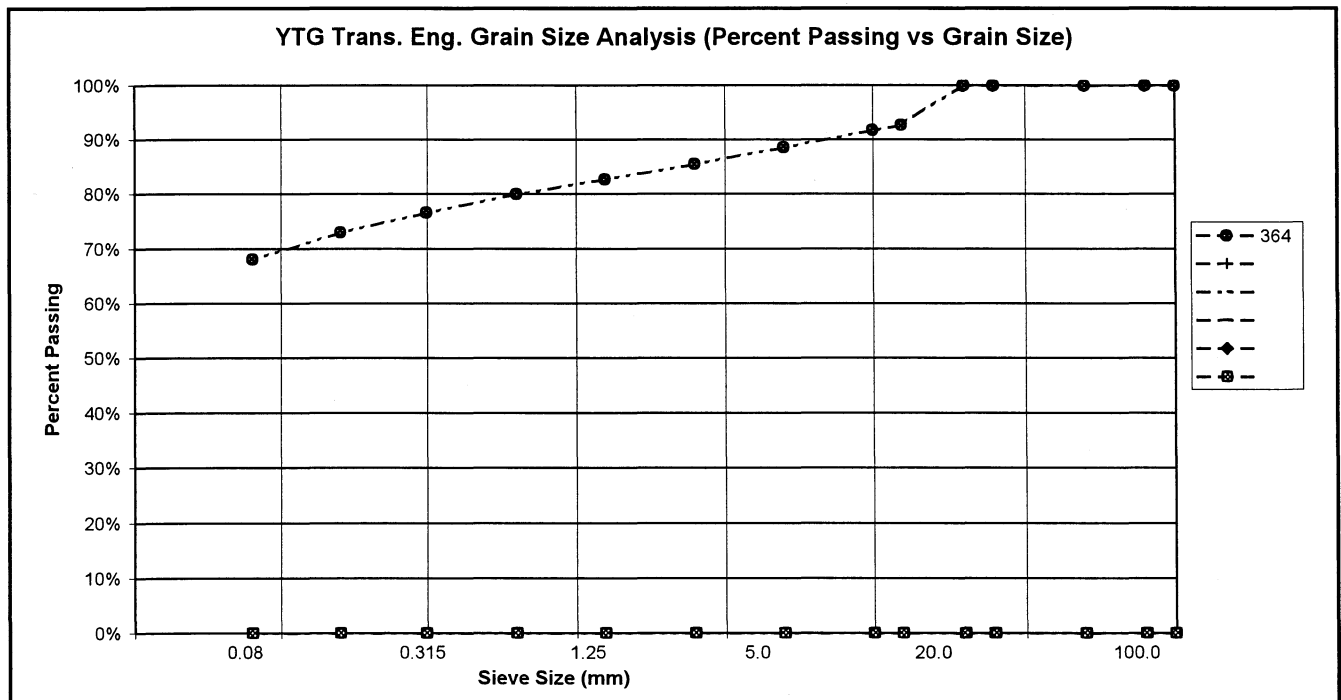


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1779+295 1M LT
 LOGGED BY: B.B.

HOLE No.: 606-227

DATE COMP: 2001/07/13

FIELD NO:	364				
LAB NO:	944				
DEPTH:	1.3-1.5				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	100%				
12.5	93%				
10.0	92%				
5.0	89%				
2.5	86%				
1.25	83%				
0.630	80%				
0.315	77%				
0.160	73%				
0.080	68%				
M.C.(%):	40%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	11				
% SAND:	21				
% FINES:	68				
CLASSIFICATION	SANDY SILT (ML)				

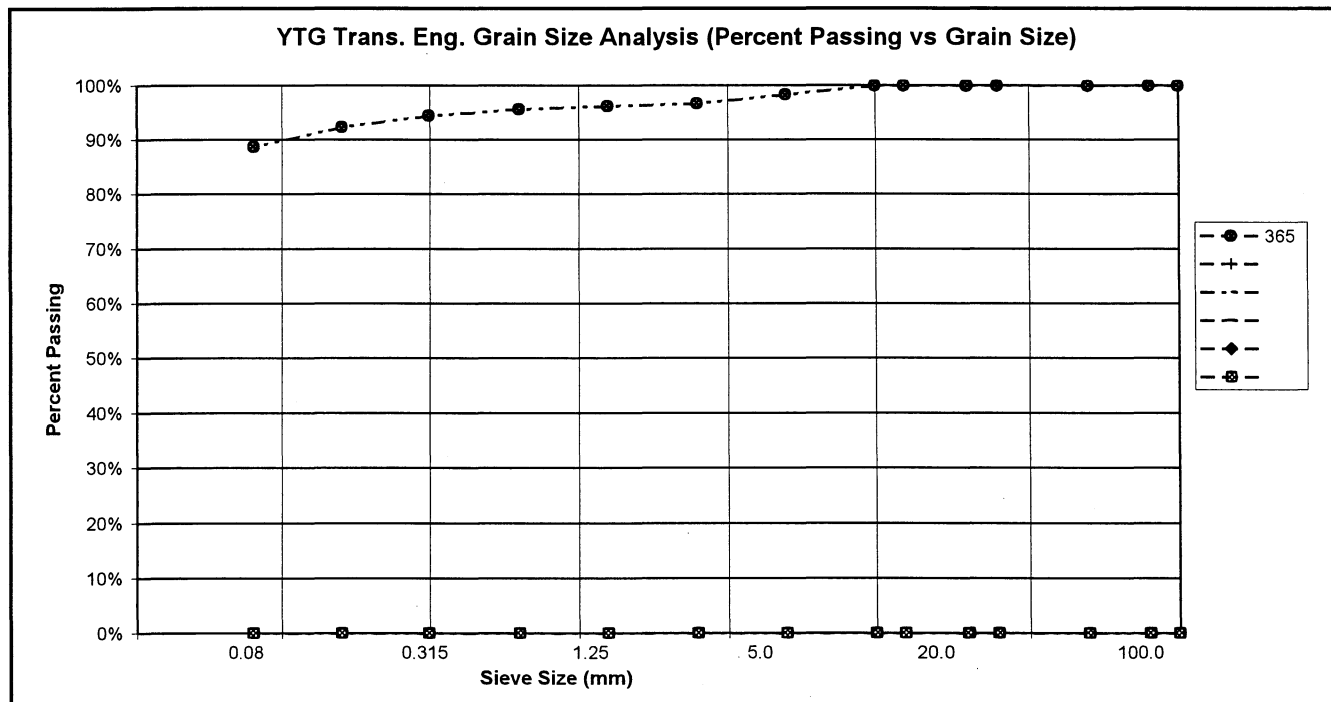


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1779+295 20M LT
 LOGGED BY: B.B.

HOLE No.: 606-228

DATE COMP: 2001/07/13

FIELD NO:	365				
LAB NO:	945				
DEPTH:	1.3-1.5				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	100%				
12.5	100%				
10.0	100%				
5.0	98%				
2.5	97%				
1.25	96%				
0.630	96%				
0.315	94%				
0.160	92%				
0.080	89%				
M.C.(%)	109%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX:	0.0				
% GRAVEL:	2				
% SAND:	10				
% FINES:	89				
CLASSIFICATION	SILT (ML)				

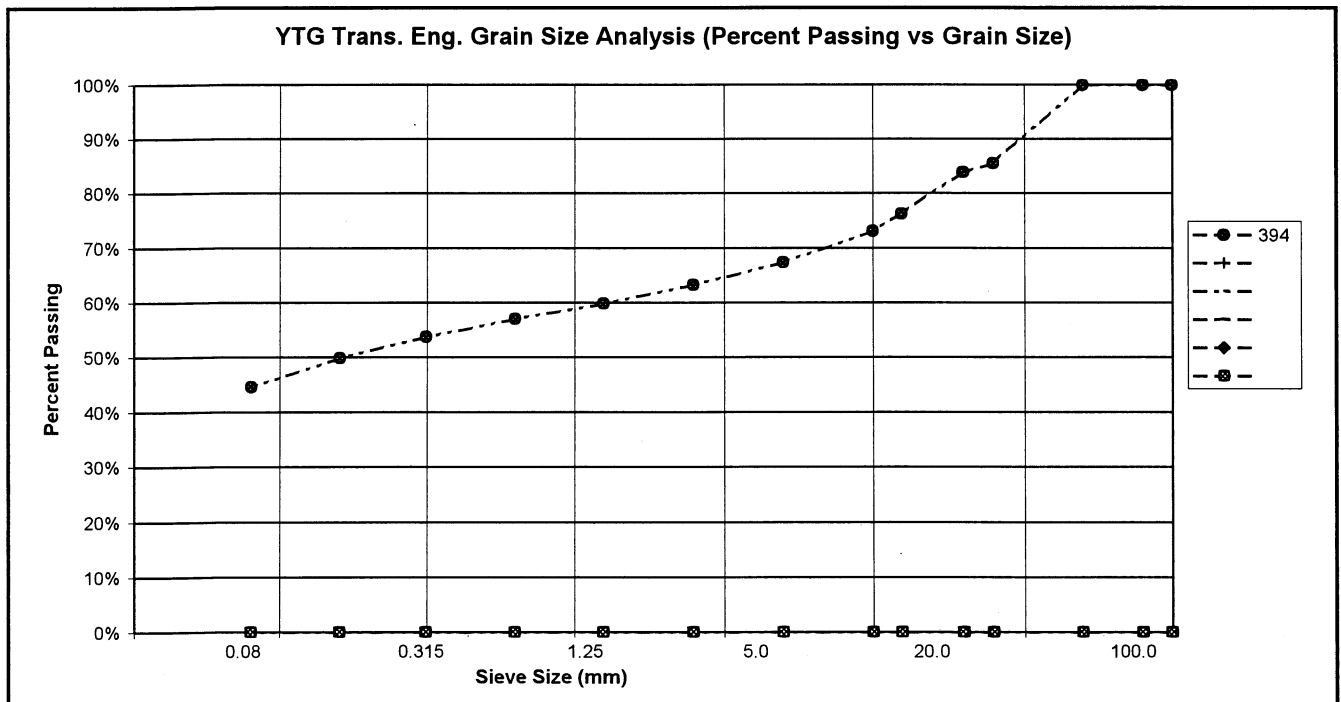


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: GPS
 LOGGED BY: B.B.

HOLE No.: 607-242

DATE COMP: 2001/07/18

FIELD NO:	394				
LAB NO:	974				
DEPTH:	2.8-3.0				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	86%				
20.0	84%				
12.5	76%				
10.0	73%				
5.0	67%				
2.5	63%				
1.25	60%				
0.630	57%				
0.315	54%				
0.160	50%				
0.080	45%				
M.C.(%):	16%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	33				
% SAND:	23				
% FINES:	45				
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)				

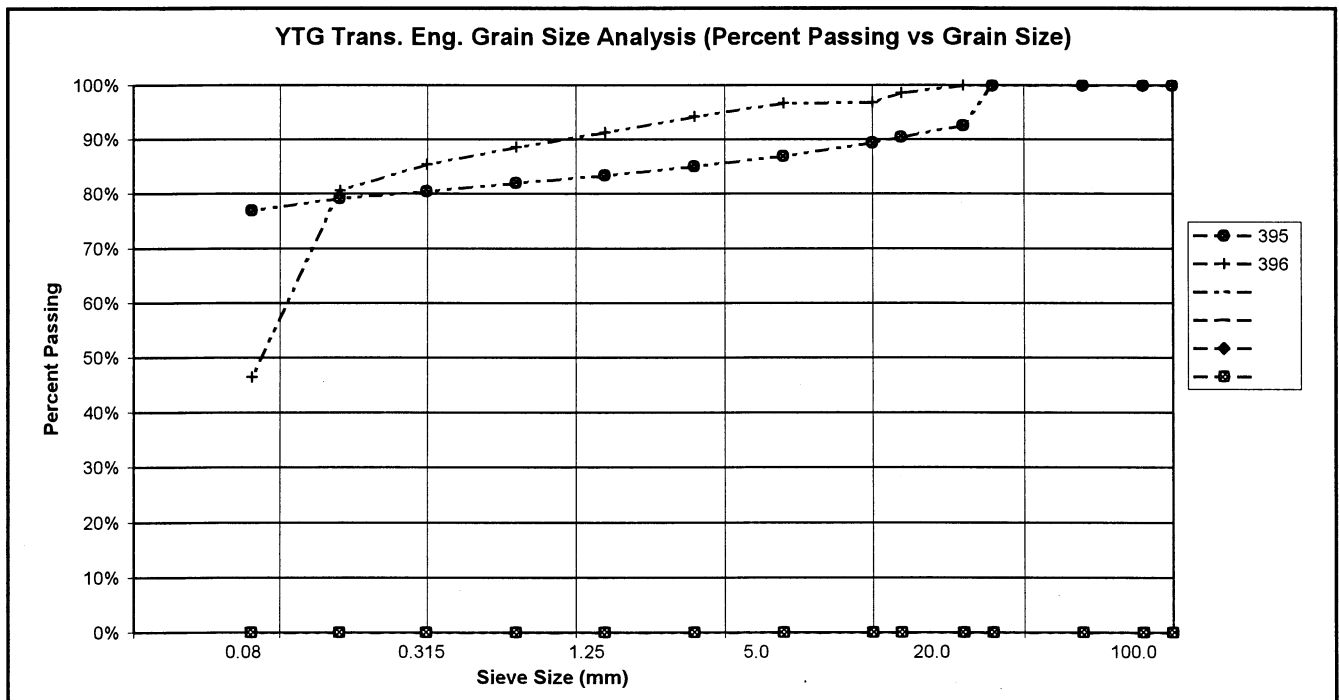


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1786+424 5M RT
 LOGGED BY: B.B.

HOLE No.: 607-243

DATE COMP: 2001/07/18

FIELD NO:	395	396			
LAB NO:	975	976			
DEPTH:	1.2-1.3	4.0-4.1			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	93%	100%			
12.5	90%	99%			
10.0	89%	97%			
5.0	87%	97%			
2.5	85%	94%			
1.25	83%	91%			
0.630	82%	89%			
0.315	81%	85%			
0.160	79%	81%			
0.080	77%	46%			
M.C.(%):	26%	14%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	13	3			
% SAND:	10	50			
% FINES:	77	46			
CLASSIFICATION	SILT WITH GRAVEL (ML)	SILTY SAND (SM)			

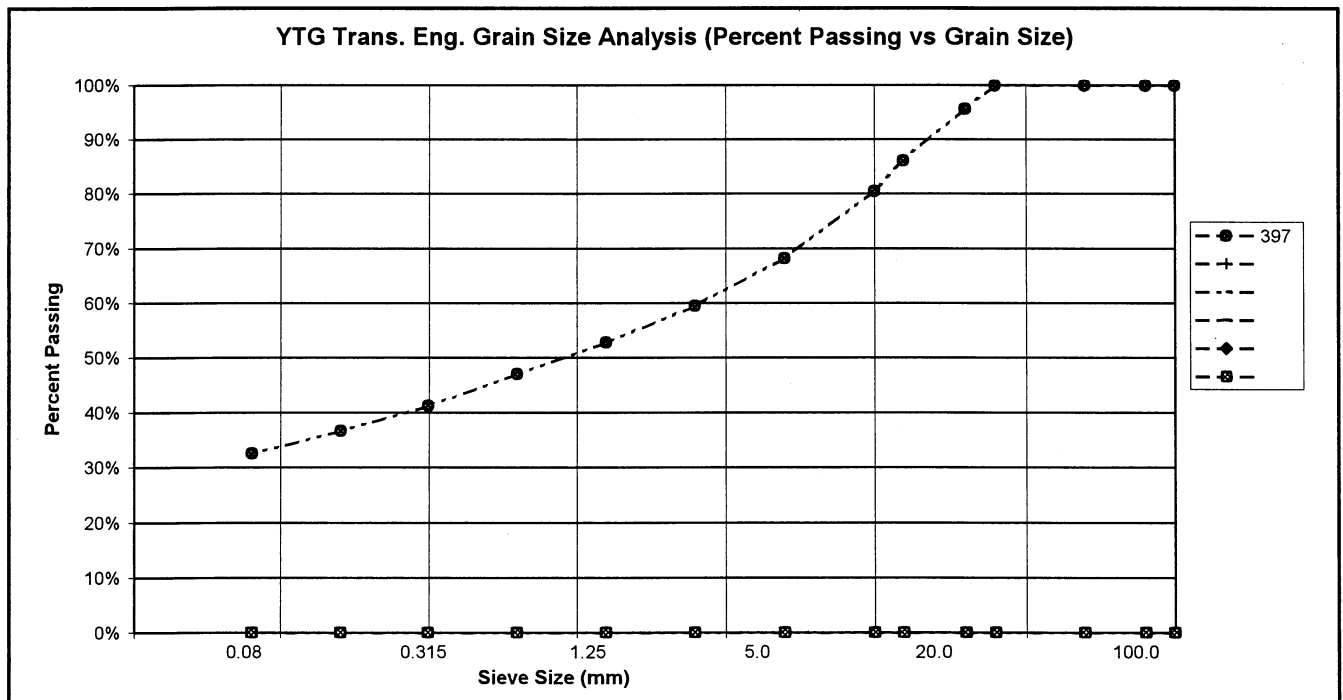


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1786+349 28M RT
 LOGGED BY: B.B.

HOLE No.: 607-244

DATE COMP: 2001/07/18

FIELD NO:	397				
LAB NO:	977				
DEPTH:	2.2-2.4				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	96%				
12.5	86%				
10.0	81%				
5.0	68%				
2.5	60%				
1.25	53%				
0.630	47%				
0.315	41%				
0.160	37%				
0.080	33%				
M.C.(%):	11%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	32				
% SAND:	36				
% FINES:	33				
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)				

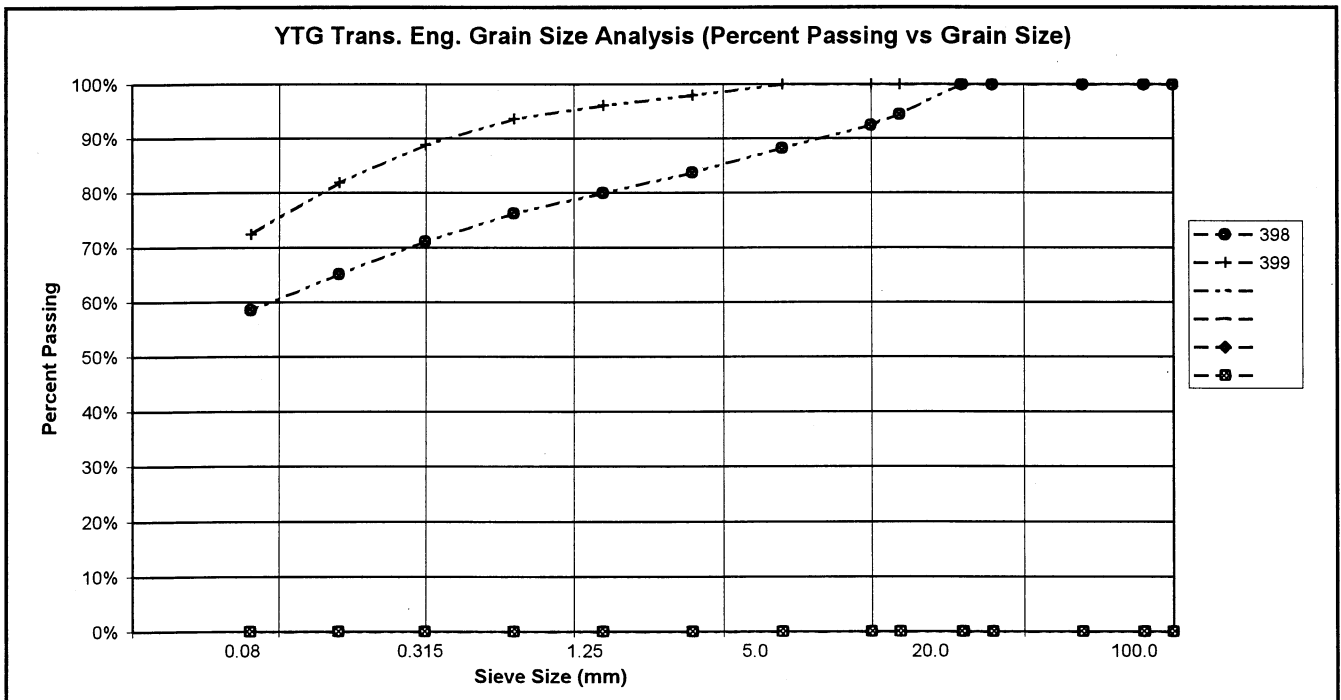


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1786+274 6M RT
 LOGGED BY: B.B.

HOLE No.: 607-245

DATE COMP: 2001/07/18

FIELD NO:	398	399			
LAB NO:	978	979			
DEPTH:	1.3-1.4	2.8-3.0			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	100%			
12.5	95%	100%			
10.0	92%	100%			
5.0	88%	100%			
2.5	84%	98%			
1.25	80%	96%			
0.630	76%	94%			
0.315	71%	89%			
0.160	65%	82%			
0.080	59%	72%			
M.C.(%):	18%	15%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	12	0			
% SAND:	30	28			
% FINES:	59	72			
CLASSIFICATION	SANDY SILT (ML)	SILT WITH SAND (ML)			

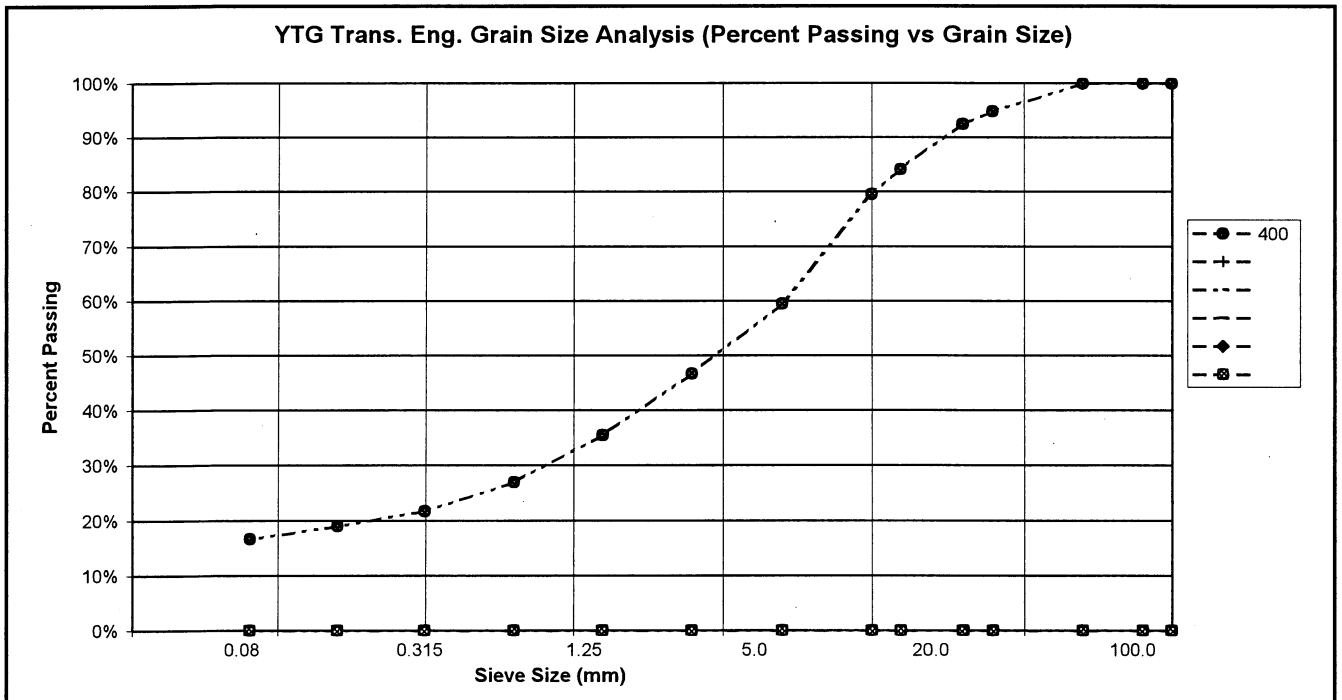


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1786+197 33M RT
 LOGGED BY: B.B.

HOLE No.: 607-246

DATE COMP: 2001/07/18

FIELD NO:	400				
LAB NO:	980				
DEPTH:	1.3-1.5				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	95%				
20.0	93%				
12.5	84%				
10.0	80%				
5.0	60%				
2.5	47%				
1.25	36%				
0.630	27%				
0.315	22%				
0.160	19%				
0.080	17%				
M.C.(%):	5%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	40				
% SAND:	43				
% FINES:	17				
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)				

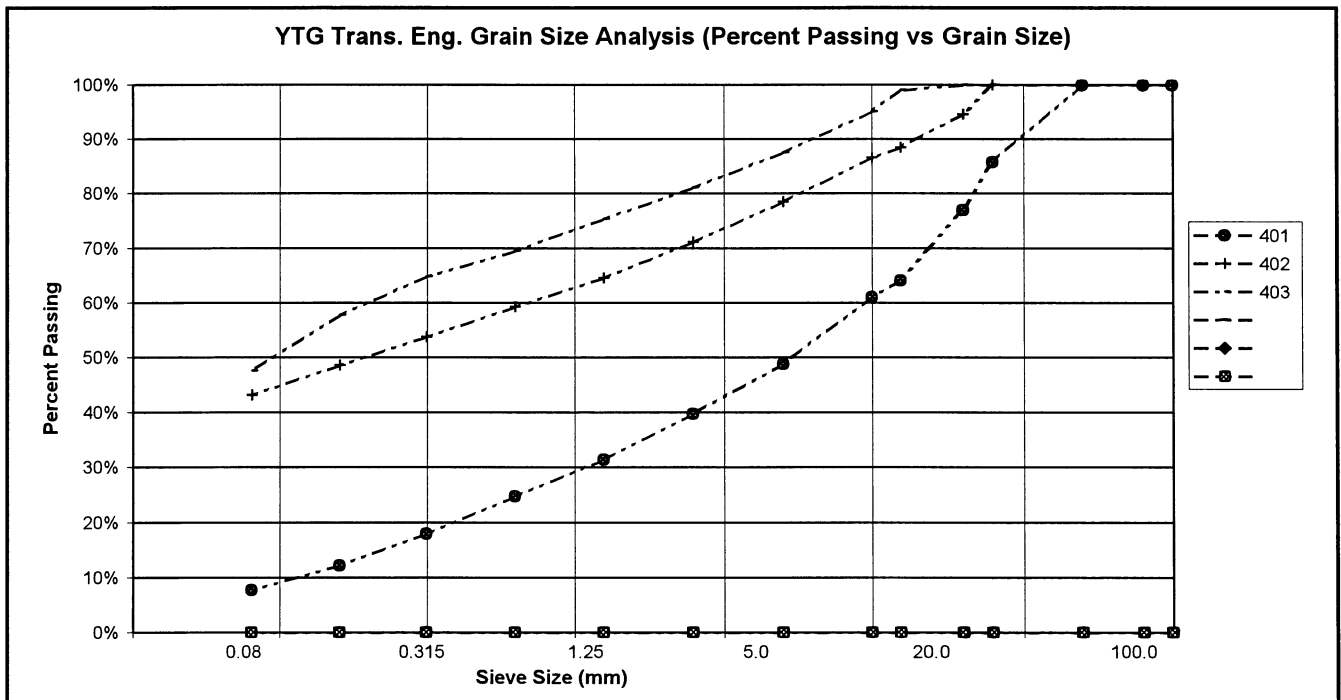


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1786+125 5M RT
 LOGGED BY: B.B.

HOLE No.: 607-247

DATE COMP: 2001/07/19

FIELD NO:	401	402	403		
LAB NO:	981	982	983		
DEPTH:	1.2-1.3	2.8-3.0	4.2-4.3		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	86%	100%	100%		
20.0	77%	95%	100%		
12.5	64%	88%	99%		
10.0	61%	87%	95%		
5.0	49%	79%	88%		
2.5	40%	71%	81%		
1.25	31%	65%	75%		
0.630	25%	59%	69%		
0.315	18%	54%	65%		
0.160	12%	49%	58%		
0.080	8%	43%	48%		
M.C.(%)	5%	16%	13%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	51	21	12		
% SAND:	41	35	40		
% FINES:	8	43	48		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND (SM)		

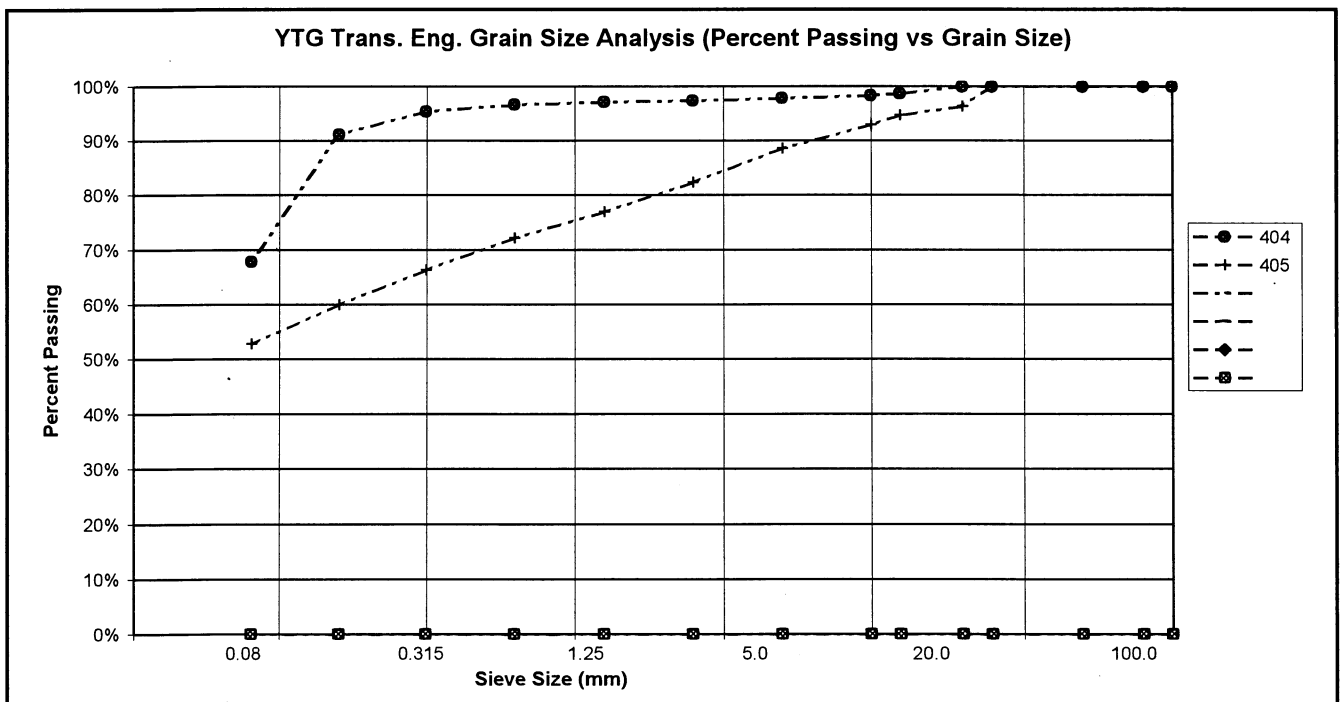


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1786+049 27M RT
 LOGGED BY: B.B.

HOLE No.: 607-248

DATE COMP: 2001/07/19

FIELD NO:	404	405			
LAB NO:	984	985			
DEPTH:	1.2-1.3	2.8-3.0			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	96%			
12.5	99%	95%			
10.0	98%	93%			
5.0	98%	89%			
2.5	97%	82%			
1.25	97%	77%			
0.630	97%	72%			
0.315	95%	66%			
0.160	91%	60%			
0.080	68%	53%			
M.C.(%):	13%	12%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	2	11			
% SAND:	30	36			
% FINES:	68	53			
CLASSIFICATION	SANDY SILT (ML)	SANDY SILT (ML)			

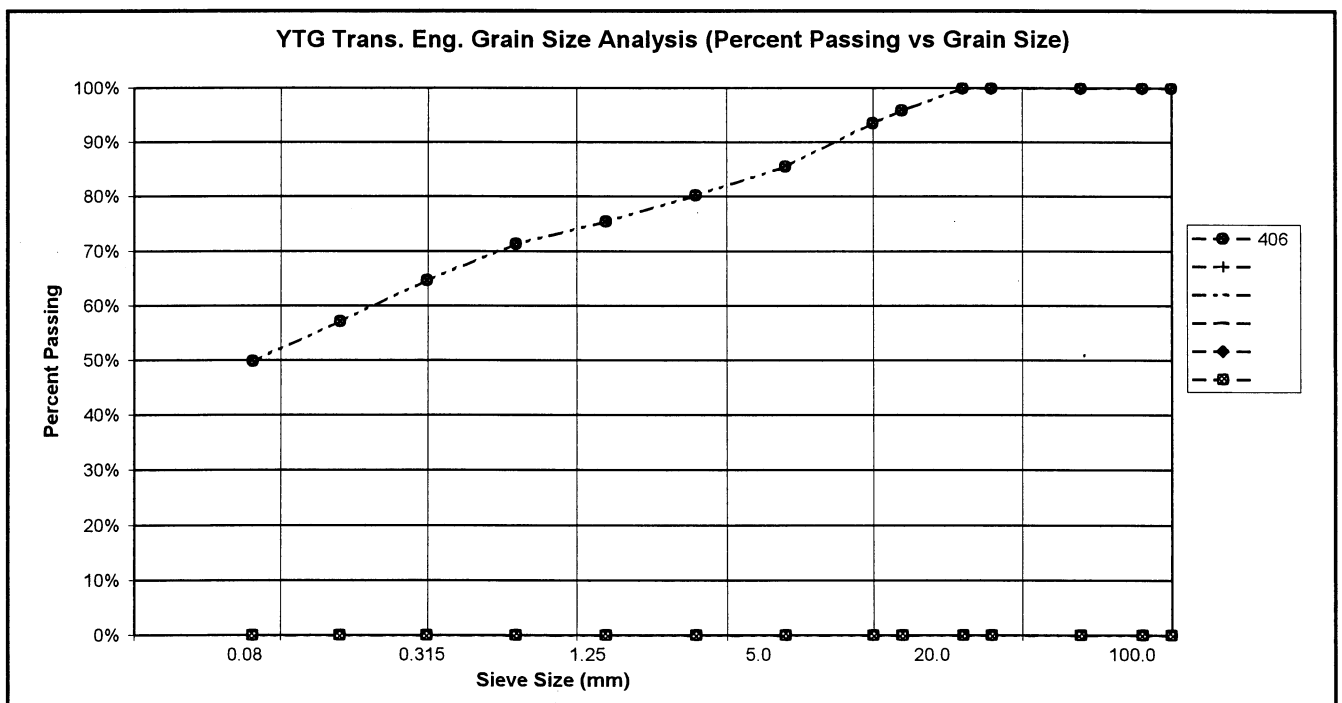


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1785+975 5M RT
 LOGGED BY: B.B.

HOLE No.: 607-249

DATE COMP: 2001/07/19

FIELD NO:	406				
LAB NO:	986				
DEPTH:	4.2-4.3				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	100%				
12.5	96%				
10.0	94%				
5.0	86%				
2.5	80%				
1.25	76%				
0.630	71%				
0.315	65%				
0.160	57%				
0.080	50%				
M.C.(%):	14%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	14				
% SAND:	36				
% FINES:	50				
CLASSIFICATION	SILTY SAND (SM)				

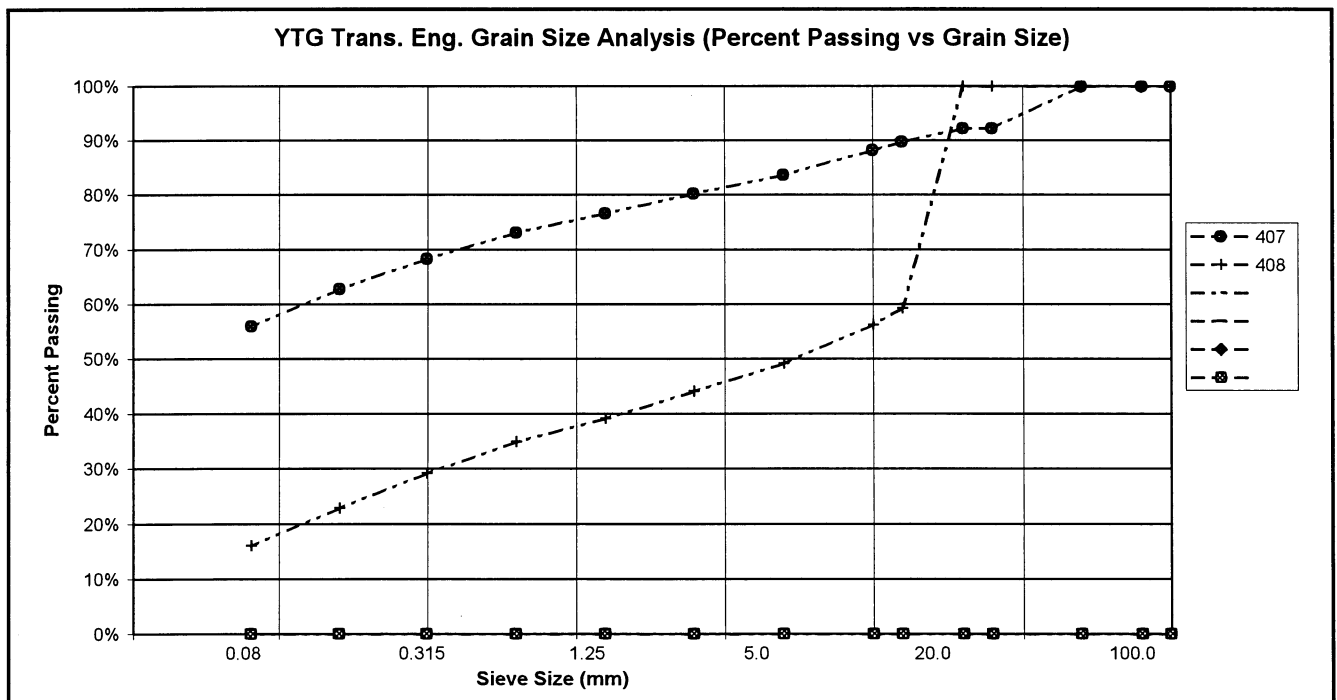


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1785+900 28M RT
 LOGGED BY: B.B.

HOLE No.: 607-250

DATE COMP: 2001/07/19

FIELD NO:	407	408			
LAB NO:	987	988			
DEPTH:	1.2-1.4	2.8-3.0			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	92%	100%			
20.0	92%	100%			
12.5	90%	59%			
10.0	88%	56%			
5.0	84%	49%			
2.5	80%	44%			
1.25	77%	39%			
0.630	73%	35%			
0.315	68%	29%			
0.160	63%	23%			
0.080	56%	16%			
M.C.(%)	20%	11%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	16	51			
% SAND:	28	33			
% FINES:	56	16			
CLASSIFICATION	SANDY SILT WITH GRAVEL (ML)	SILTY GRAVEL WITH SAND (GM)			

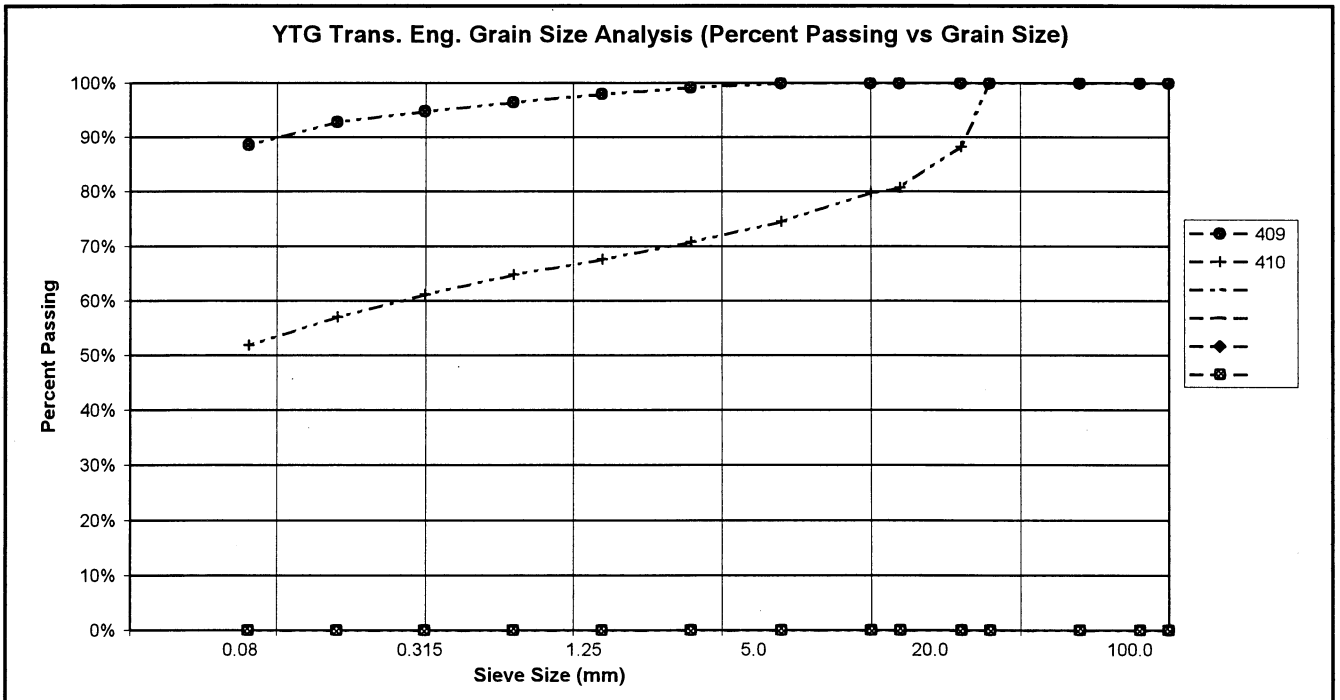


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1785+746 38M RT
 LOGGED BY: B.B.

HOLE No.: 607-251

DATE COMP: 2001/07/19

FIELD NO:	409	410			
LAB NO:	989	990			
DEPTH:	1.3-1.4	2.5-2.6			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	88%			
12.5	100%	81%			
10.0	100%	80%			
5.0	100%	75%			
2.5	99%	71%			
1.25	98%	68%			
0.630	97%	65%			
0.315	95%	61%			
0.160	93%	57%			
0.080	89%	52%			
M.C.(%):	57%	25%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	0	25			
% SAND:	11	23			
% FINES:	89	52			
CLASSIFICATION	SILT (ML)	GRAVELLY SILT WITH SAND (ML)			

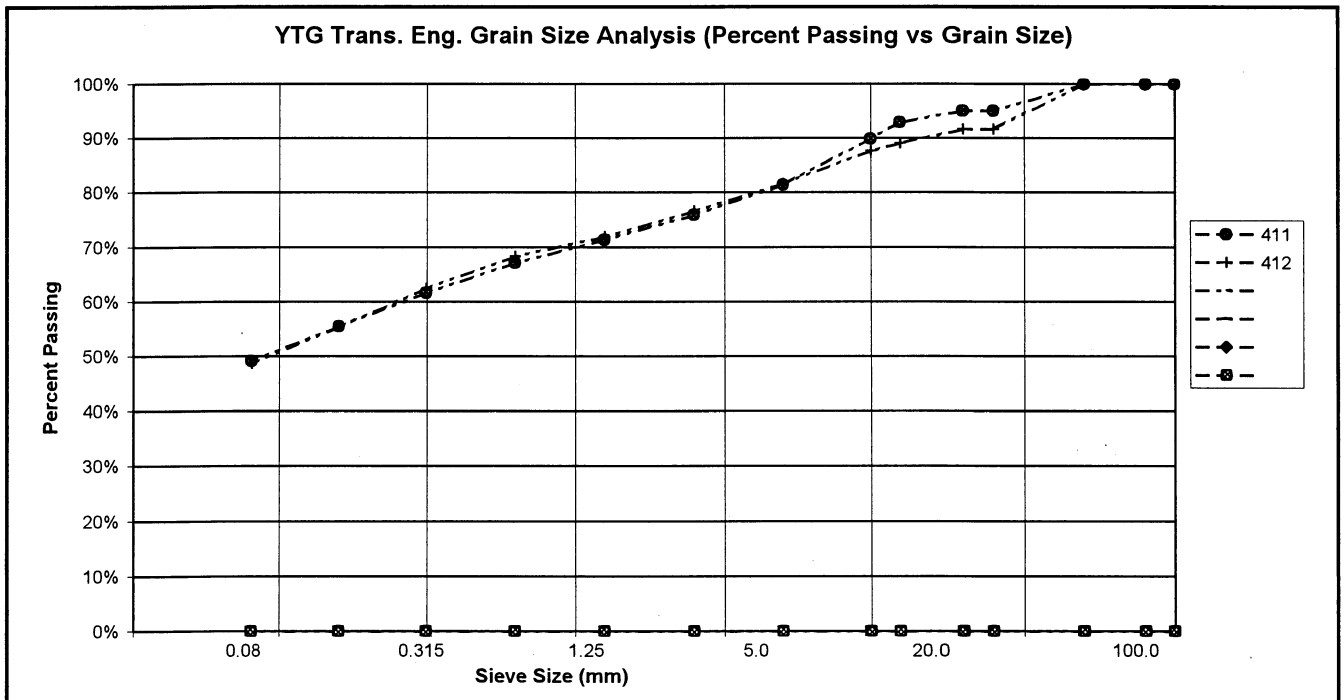


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1785+824 2M LT
 LOGGED BY: B.B.

HOLE No.: 607-252

DATE COMP: 2001/07/19

FIELD NO:	411	412			
LAB NO:	991	992			
DEPTH:	1.2-1.3	4.3-4.4			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	95%	92%			
20.0	95%	92%			
12.5	93%	89%			
10.0	90%	88%			
5.0	81%	82%			
2.5	76%	77%			
1.25	71%	72%			
0.630	67%	68%			
0.315	62%	62%			
0.160	56%	55%			
0.080	49%	49%			
M.C.(%):	17%	13%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	19	18			
% SAND:	32	33			
% FINES:	49	49			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)			

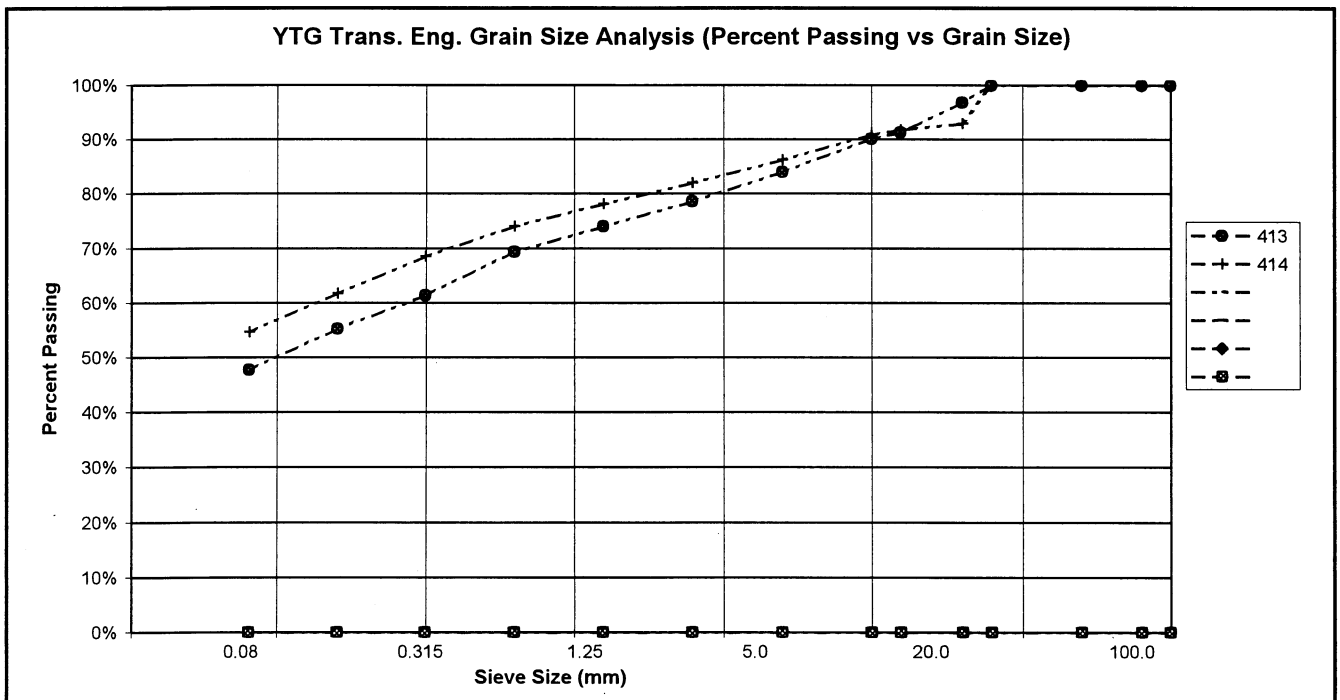


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1785+735 CL
 LOGGED BY: B.B.

HOLE No.: 607-253

DATE COMP: 2001/07/19

FIELD NO:	413	414			
LAB NO:	993	994			
DEPTH:	1.3-1.4	2.8-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	97%	93%			
12.5	91%	92%			
10.0	90%	91%			
5.0	84%	86%			
2.5	79%	82%			
1.25	74%	78%			
0.630	69%	74%			
0.315	61%	69%			
0.160	55%	62%			
0.080	48%	55%			
M.C.(%):	14%	10%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	16	14			
% SAND:	36	32			
% FINES:	48	55			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)			

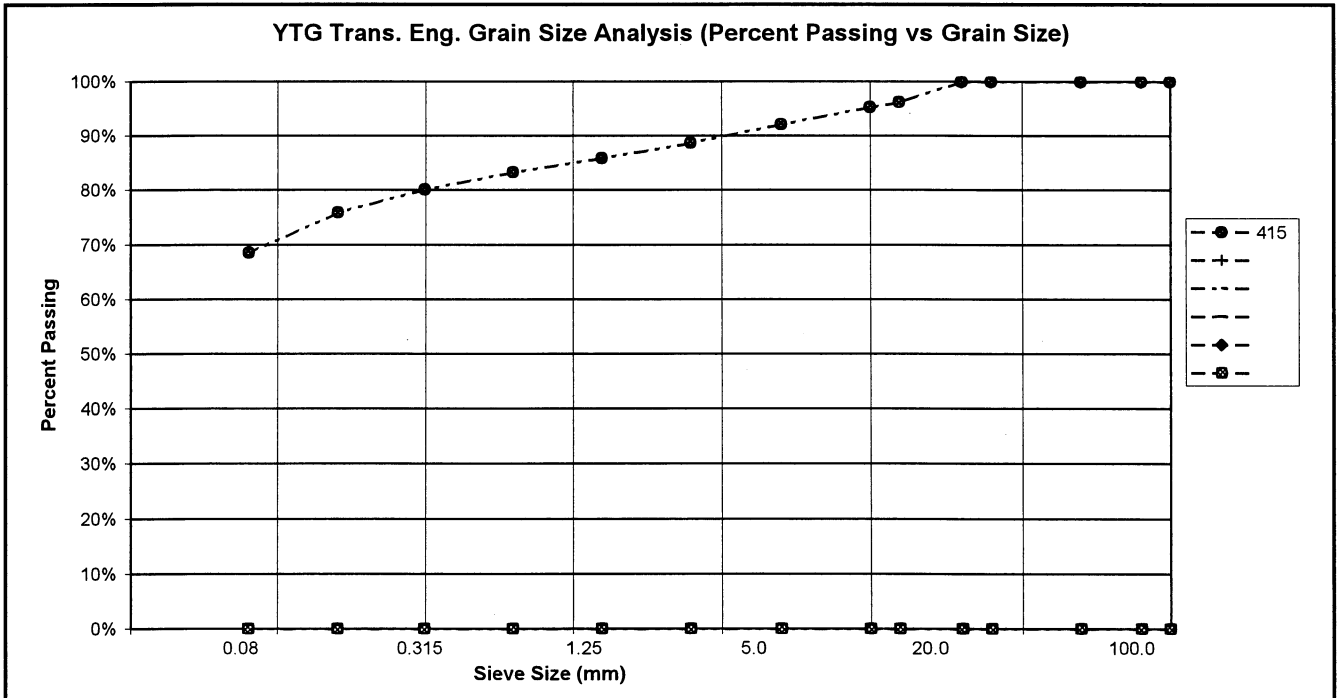


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1785+733 20M LT
 LOGGED BY: B.B.

HOLE No.: 607-254

DATE COMP: 2001/07/19

FIELD NO:	415				
LAB NO:	995				
DEPTH:	1.2-1.3				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	100%				
12.5	96%				
10.0	95%				
5.0	92%				
2.5	89%				
1.25	86%				
0.630	83%				
0.315	80%				
0.160	76%				
0.080	69%				
M.C.(%):	20%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	8				
% SAND:	24				
% FINES:	69				
CLASSIFICATION	SANDY SILT (ML)				

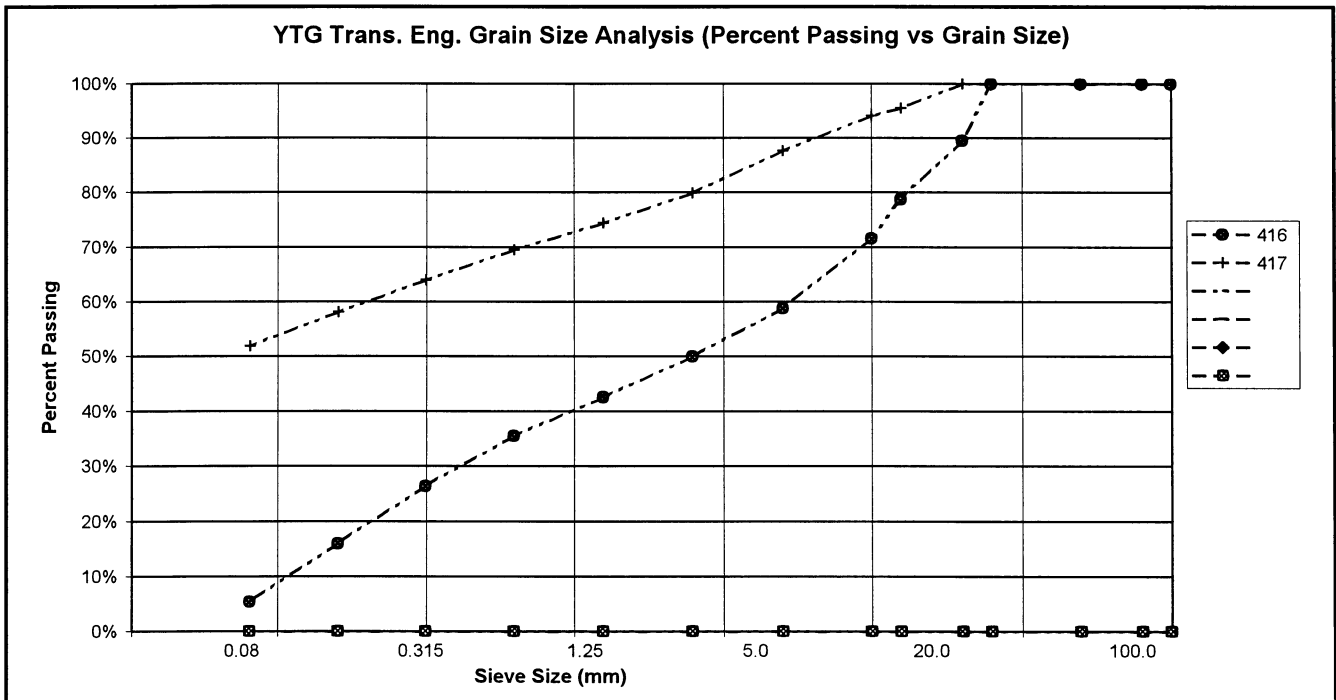


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1785+576 1M RT
 LOGGED BY: B.B.

HOLE No.: 607-255

DATE COMP: 2001/07/19

FIELD NO:	416	417			
LAB NO:	996	997			
DEPTH:	1.2-1.3	4.2-4.3			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	90%	100%			
12.5	79%	96%			
10.0	72%	94%			
5.0	59%	88%			
2.5	50%	80%			
1.25	43%	74%			
0.630	36%	69%			
0.315	26%	64%			
0.160	16%	58%			
0.080	5%	52%			
M.C.(%):	27%	13%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	41	12			
% SAND:	53	36			
% FINES:	5	52			
CLASSIFICATION	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	SANDY SILT (ML)			

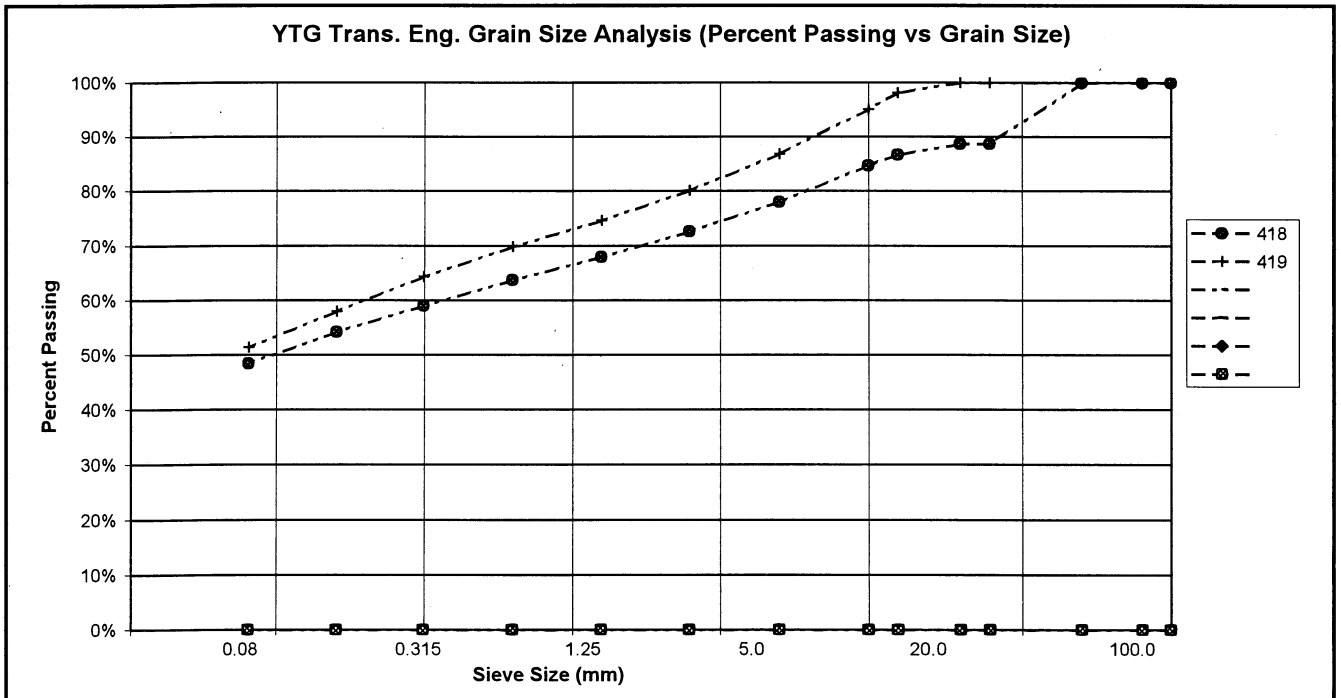


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1785+514 1M RT
 LOGGED BY: B.B.

HOLE No.: 607-256

DATE COMP: 2001/07/19

FIELD NO:	418	419			
LAB NO:	998	999			
DEPTH:	1.2-1.3	4.2-4.3			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	89%	100%			
20.0	89%	100%			
12.5	87%	98%			
10.0	85%	95%			
5.0	78%	87%			
2.5	73%	80%			
1.25	68%	75%			
0.630	64%	70%			
0.315	59%	64%			
0.160	54%	58%			
0.080	48%	51%			
M.C.(%):	21%	15%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	22	13			
% SAND:	30	35			
% FINES:	48	51			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)			

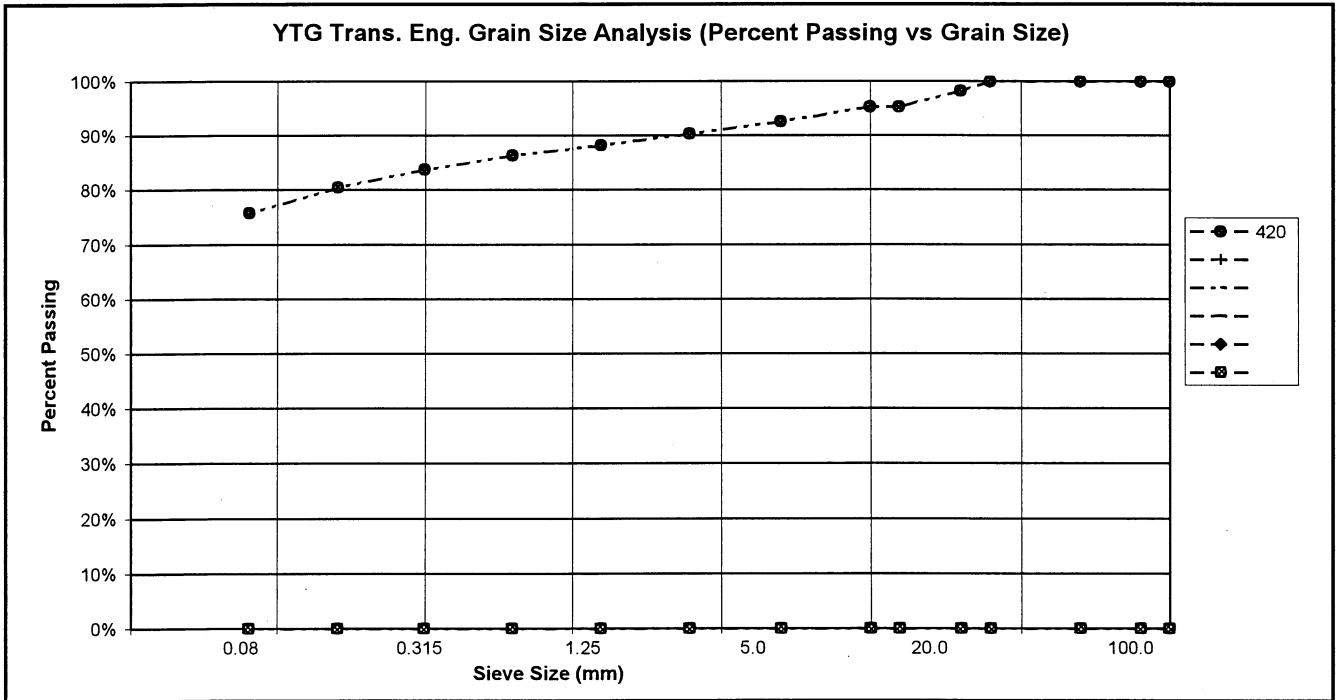


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1785+513 21M LT
 LOGGED BY: B.B.

HOLE No.: 607-257

DATE COMP: 2001/07/20

FIELD NO:	420				
LAB NO:	1000				
DEPTH:	2.5-2.7				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	98%				
12.5	95%				
10.0	95%				
5.0	93%				
2.5	90%				
1.25	88%				
0.630	86%				
0.315	84%				
0.160	80%				
0.080	76%				
M.C.(%):	55%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	7				
% SAND:	17				
% FINES:	76				
CLASSIFICATION	SILT WITH SAND (ML)				

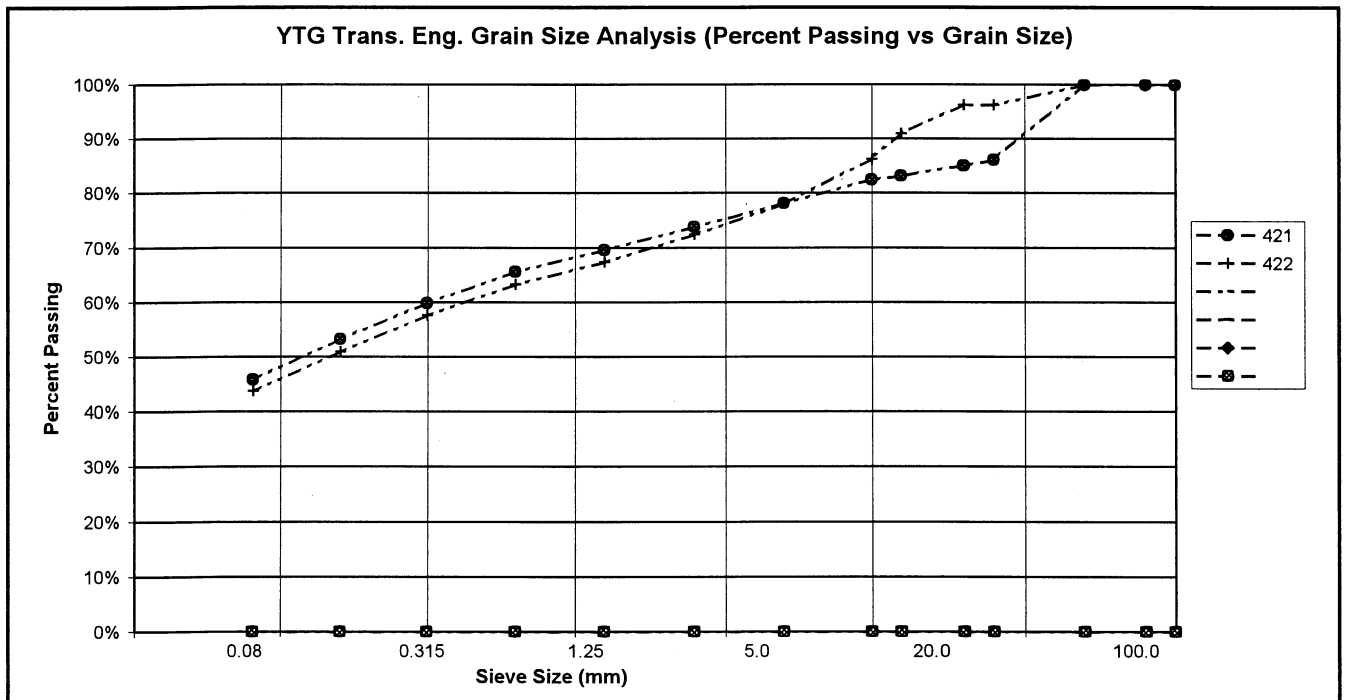


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1785+513 20m rt
 LOGGED BY: B.B.

HOLE No.: 607-258

DATE COMP: 2001/07/20

FIELD NO:	421	422			
LAB NO:	1001	1002			
DEPTH:	1.2-1.3	2.7-2.8			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	86%	96%			
20.0	85%	96%			
12.5	83%	91%			
10.0	82%	86%			
5.0	78%	78%			
2.5	74%	72%			
1.25	70%	67%			
0.630	66%	63%			
0.315	60%	58%			
0.160	53%	51%			
0.080	46%	44%			
M.C.(%):	13%	8%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	22	22			
% SAND:	32	34			
% FINES:	46	44			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)			

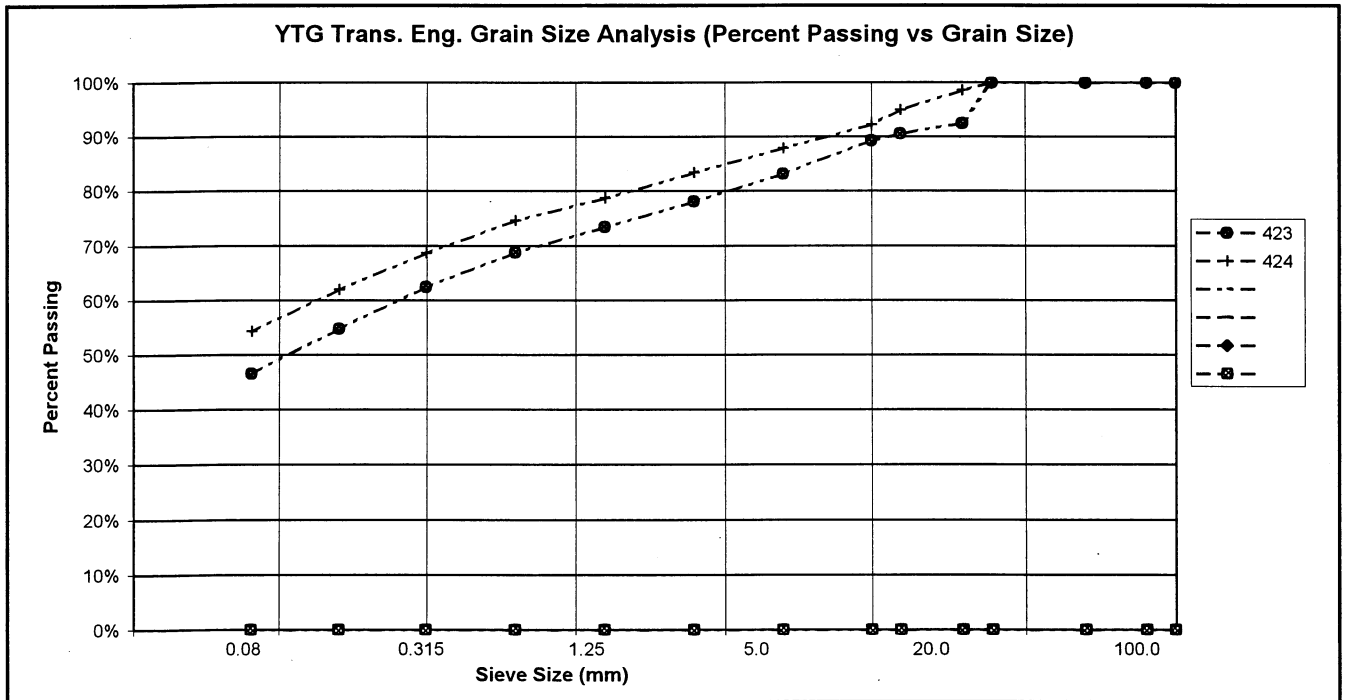


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1785+393 21M RT
 LOGGED BY: B.B.

HOLE No.: 607-259

DATE COMP: 2001/07/20

FIELD NO:	423	424			
LAB NO:	1003	1004			
DEPTH:	1.2-1.3	2.7-2.8			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	93%	99%			
12.5	91%	95%			
10.0	89%	92%			
5.0	83%	88%			
2.5	78%	83%			
1.25	73%	79%			
0.630	69%	75%			
0.315	62%	69%			
0.160	55%	62%			
0.080	47%	54%			
M.C.(%)	13%	10%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	17	12			
% SAND:	37	34			
% FINES:	47	54			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)			

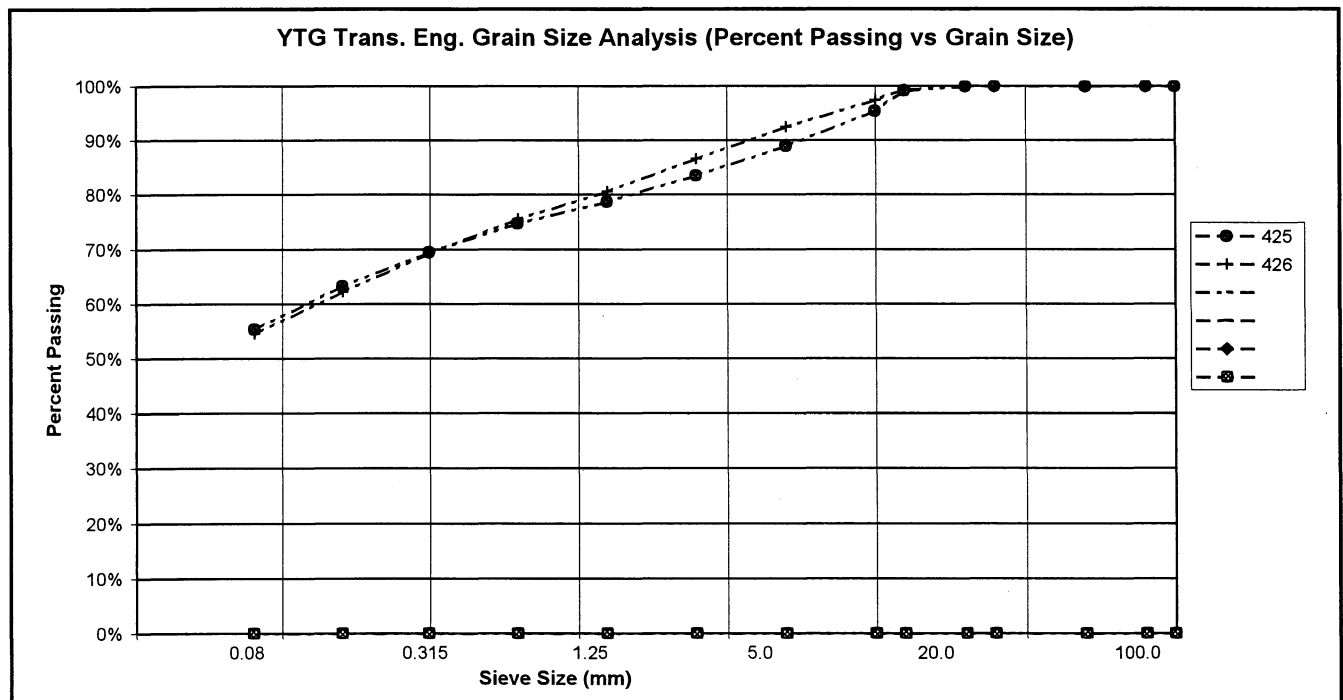


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1785+391 1M RT
 LOGGED BY: B.B.

HOLE No.: 607-260

DATE COMP: 2001/07/20

FIELD NO:	425	426			
LAB NO:	1005	1006			
DEPTH:	1.2-1.3	4.2-4.3			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	100%			
12.5	99%	99%			
10.0	95%	97%			
5.0	89%	93%			
2.5	84%	87%			
1.25	79%	81%			
0.630	75%	76%			
0.315	69%	69%			
0.160	63%	62%			
0.080	55%	55%			
M.C.(%)	28%	16%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	11	7			
% SAND:	34	38			
% FINES:	55	55			
CLASSIFICATION	SANDY SILT (ML)	SANDY SILT (ML)			

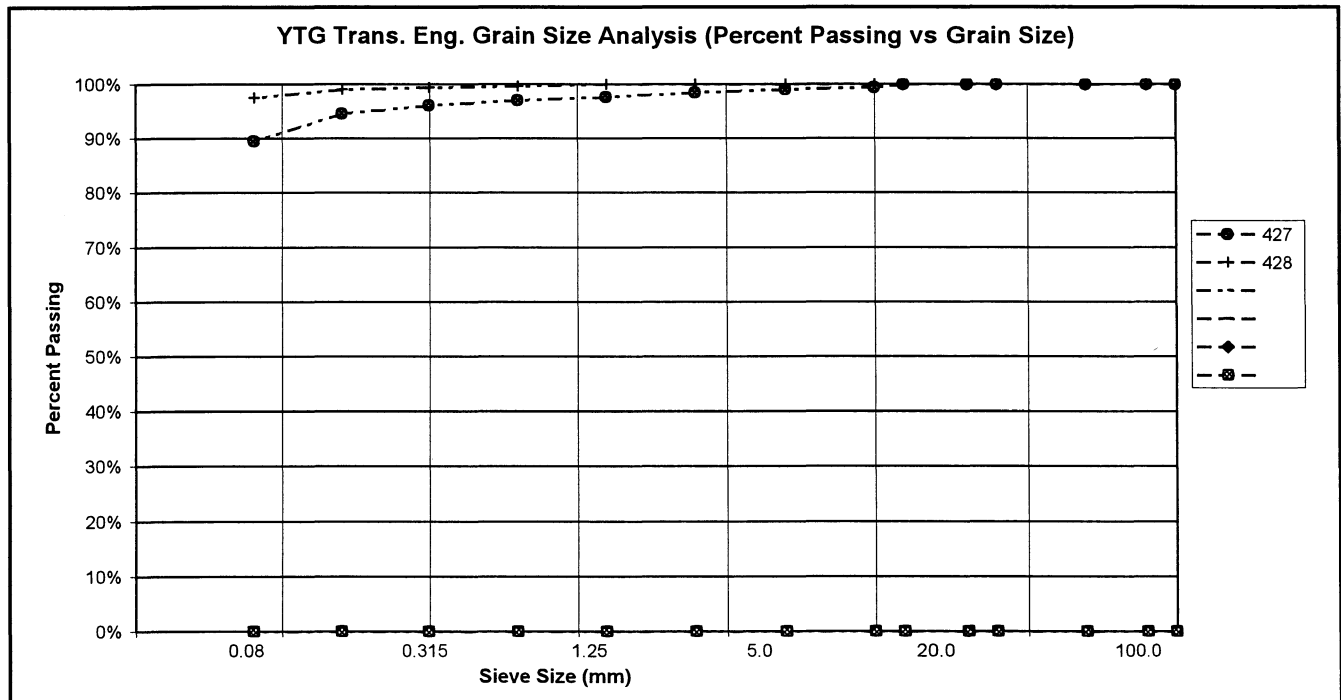


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1785+390 19M LT
 LOGGED BY: B.B.

HOLE No.: 607-261

DATE COMP: 2001/07/20

FIELD NO:	427	428			
LAB NO:	1007	1008			
DEPTH:	1.2-1.3	2.8-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	100%			
12.5	100%	100%			
10.0	99%	100%			
5.0	99%	100%			
2.5	98%	100%			
1.25	98%	100%			
0.630	97%	100%			
0.315	96%	99%			
0.160	95%	99%			
0.080	90%	98%			
M.C.(%):	40%	50%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	1	0			
% SAND:	10	2			
% FINES:	90	98			
CLASSIFICATION	SILT (ML)	SILT (ML)			

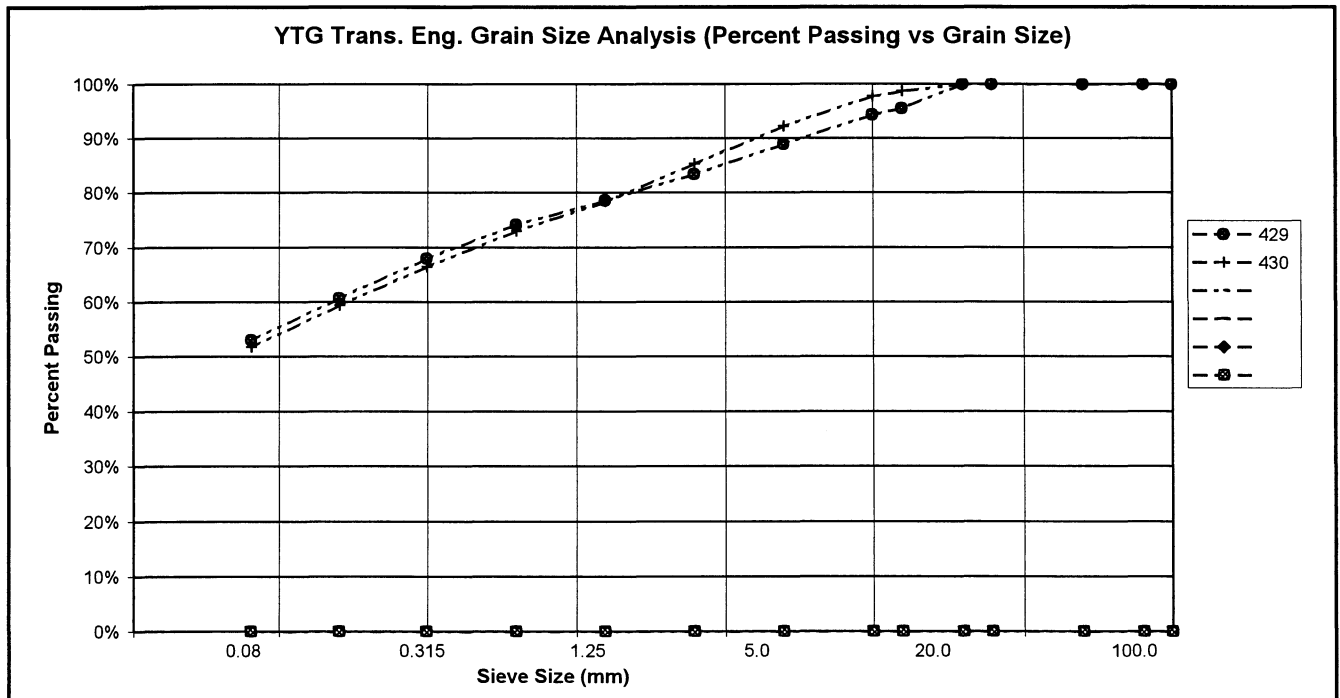


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1785+251 CL
 LOGGED BY: B.B.

HOLE No.: 607-262

DATE COMP: 2001/07/20

FIELD NO:	429	430			
LAB NO:	1009	1010			
DEPTH:	1.2-1.3	4.2-4.3			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	100%			
12.5	96%	99%			
10.0	94%	98%			
5.0	89%	92%			
2.5	83%	85%			
1.25	79%	78%			
0.630	74%	73%			
0.315	68%	66%			
0.160	61%	59%			
0.080	53%	52%			
M.C.(%)	19%	10%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	11	8			
% SAND:	36	40			
% FINES:	53	52			
CLASSIFICATION	SANDY SILT (ML)	SANDY SILT (ML)			

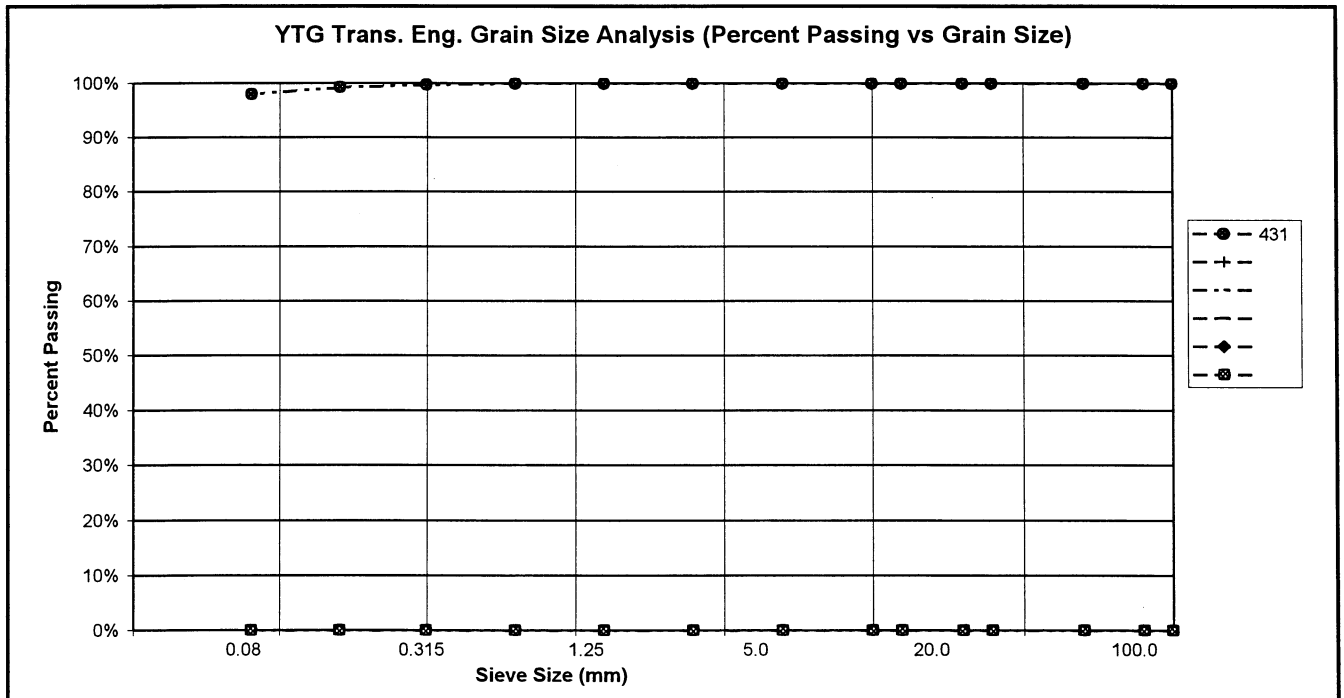


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1785+099 21M RT
 LOGGED BY: B.B.

HOLE No.: 607-263

DATE COMP: 2001/07/20

FIELD NO:	431				
LAB NO:	1011				
DEPTH:	1.8-1.9				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	100%				
12.5	100%				
10.0	100%				
5.0	100%				
2.5	100%				
1.25	100%				
0.630	100%				
0.315	100%				
0.160	99%				
0.080	98%				
M.C.(%)	98%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	0				
% SAND:	2				
% FINES:	98				
CLASSIFICATION	SILT (ML)				

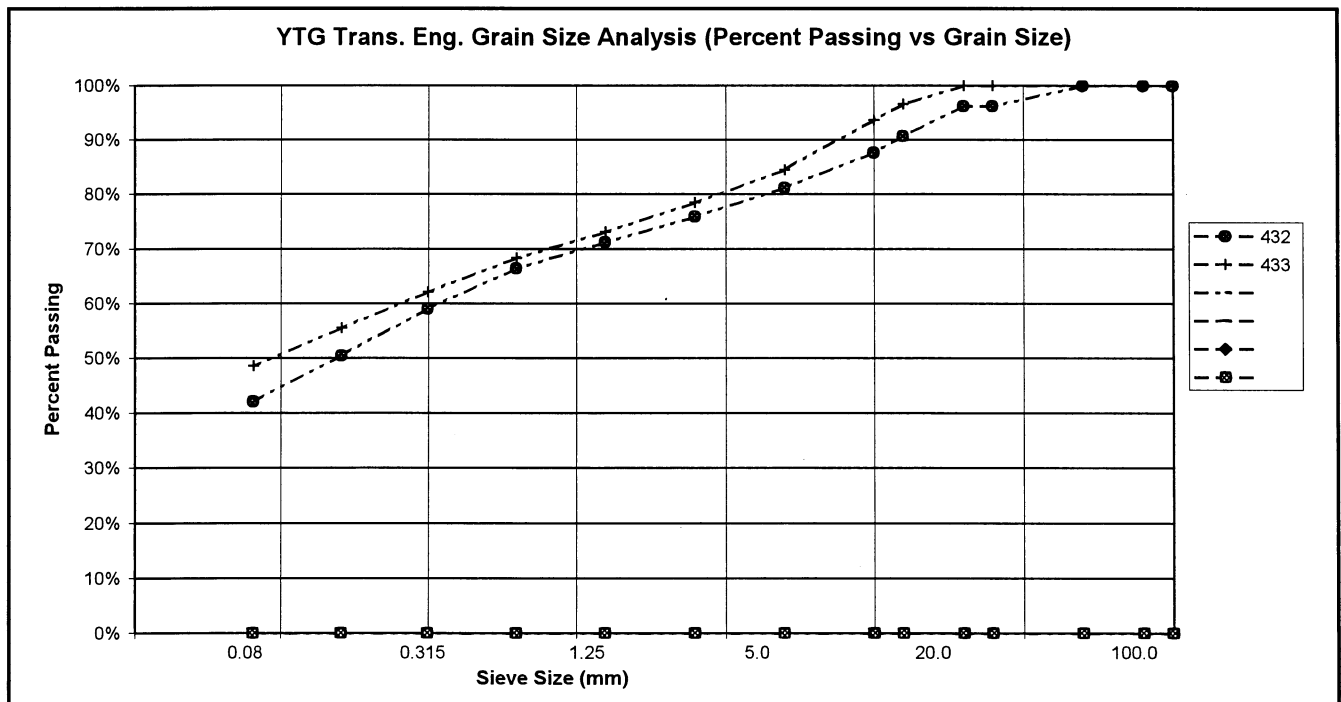


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1785+102 3M RT
 LOGGED BY: B.B.

HOLE No.: 607-264

DATE COMP: 2001/07/20

FIELD NO:	432	433			
LAB NO:	1012	1013			
DEPTH:	1.2-1.3	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	96%	100%			
20.0	96%	100%			
12.5	91%	97%			
10.0	88%	94%			
5.0	81%	85%			
2.5	76%	79%			
1.25	71%	73%			
0.630	66%	68%			
0.315	59%	62%			
0.160	50%	55%			
0.080	42%	49%			
M.C.(%):	15%	8%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	19	15			
% SAND:	39	36			
% FINES:	42	49			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)			

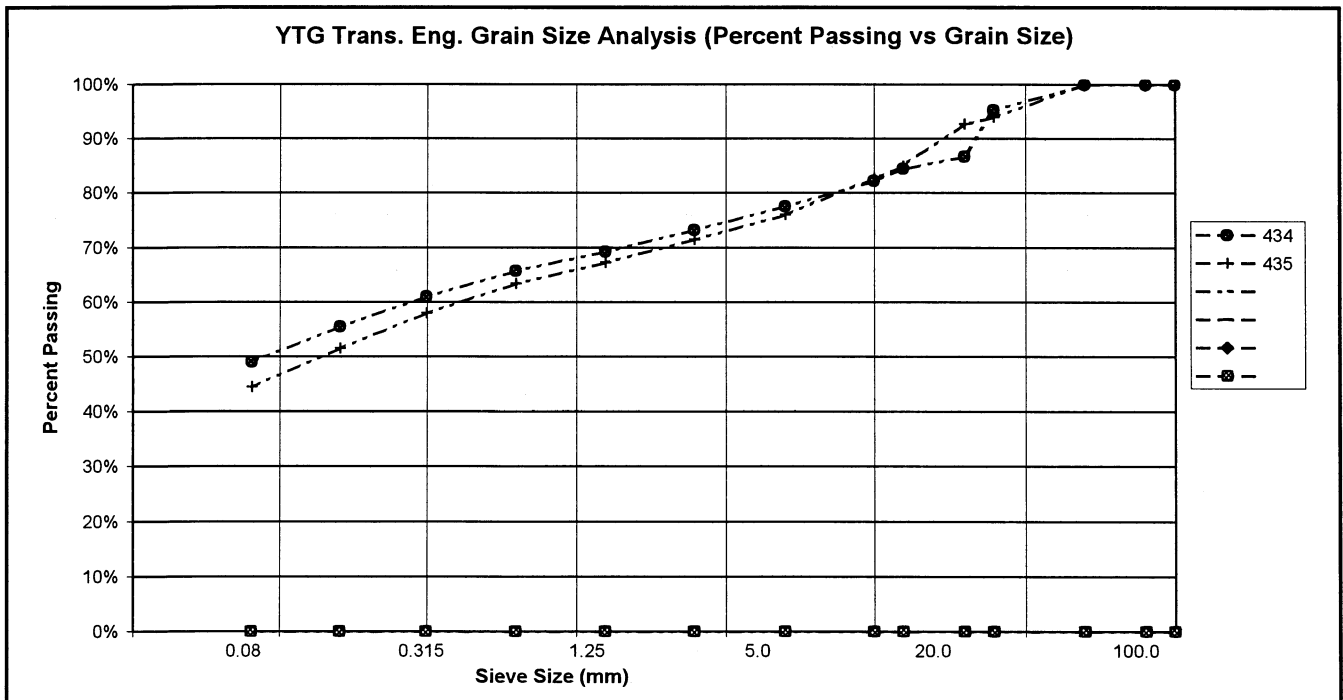


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1768-1788 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1785+111 15M LT
 LOGGED BY: B.B.

HOLE No.: 607-265

DATE COMP: 2001/07/20

FIELD NO:	434	435			
LAB NO:	1014	1015			
DEPTH:	1.2-1.3	2.7-2.8			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	95%	94%			
20.0	87%	93%			
12.5	85%	85%			
10.0	82%	83%			
5.0	78%	76%			
2.5	73%	72%			
1.25	69%	67%			
0.630	66%	63%			
0.315	61%	58%			
0.160	56%	52%			
0.080	49%	45%			
M.C.(%)	12%	15%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	22	24			
% SAND:	28	32			
% FINES:	49	45			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)			

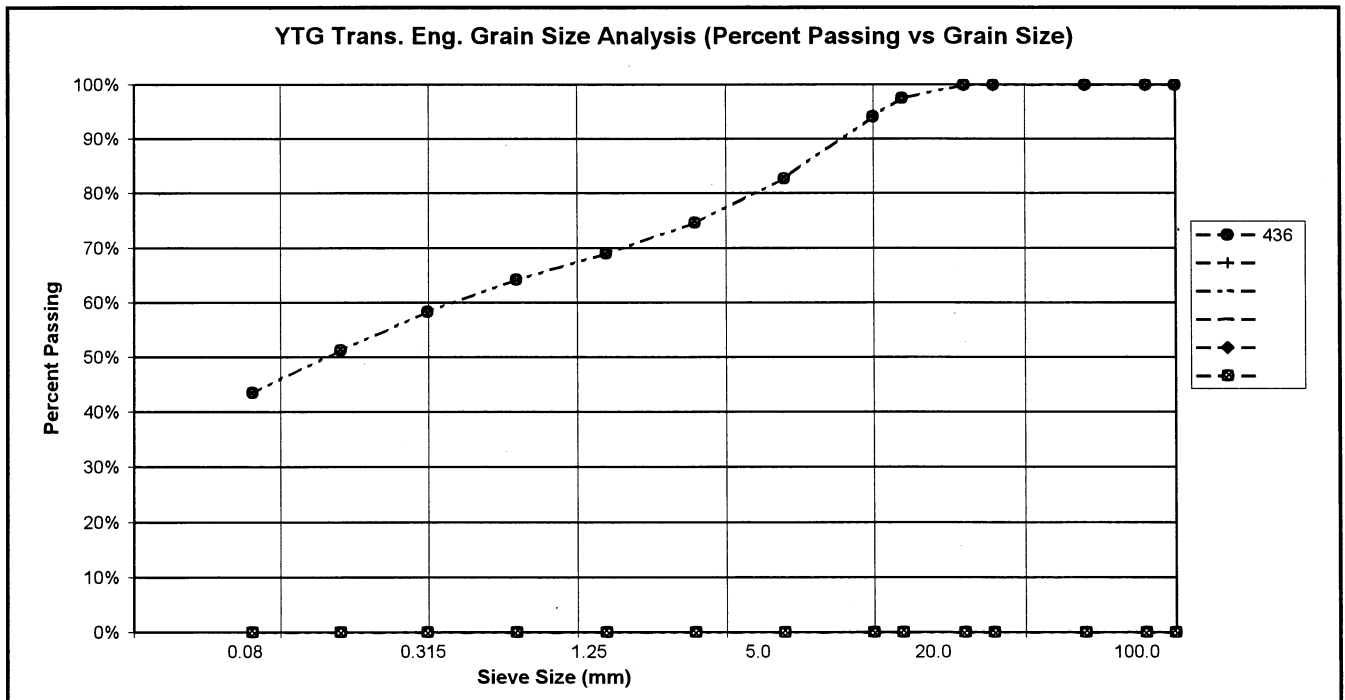


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: See GPS
 LOGGED BY: B.B.

HOLE No.: 608-266

DATE COMP: 2001/07/23

FIELD NO:	436				
LAB NO:	1016				
DEPTH:	4.2-4.3				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	100%				
12.5	98%				
10.0	94%				
5.0	83%				
2.5	75%				
1.25	69%				
0.630	64%				
0.315	58%				
0.160	51%				
0.080	44%				
M.C.(%):	54%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX:	0.0				
% GRAVEL:	17				
% SAND:	39				
% FINES:	44				
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)				

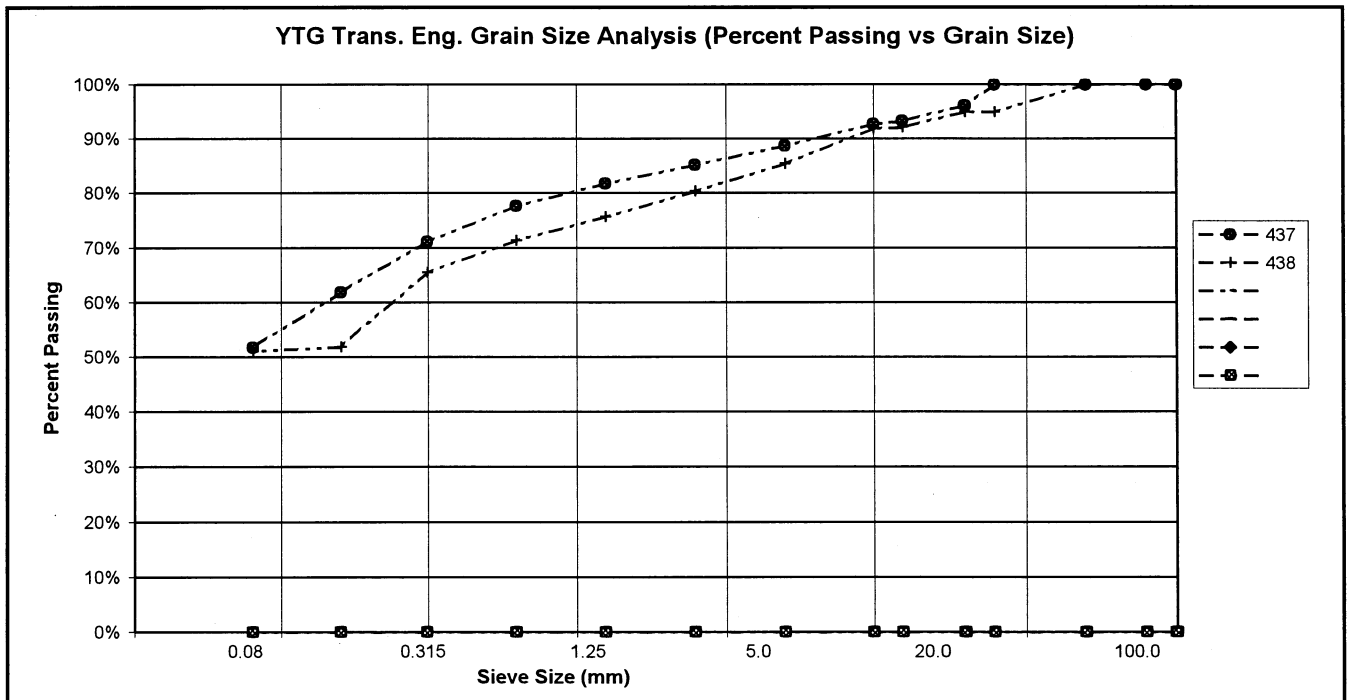


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: See GPS
 LOGGED BY: B.B.

HOLE No.: 608-267

DATE COMP: 2001/07/23

FIELD NO:	437	438			
LAB NO:	1017	1018			
DEPTH:	1.3-1.4	4.2-4.3			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	95%			
20.0	96%	95%			
12.5	93%	92%			
10.0	93%	92%			
5.0	89%	85%			
2.5	85%	80%			
1.25	82%	76%			
0.630	78%	71%			
0.315	71%	66%			
0.160	62%	52%			
0.080	52%	51%			
M.C.(%)	23%	12%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	11	15			
% SAND:	37	34			
% FINES:	52	51			
CLASSIFICATION	SANDY SILT (ML)	SANDY SILT (ML)			

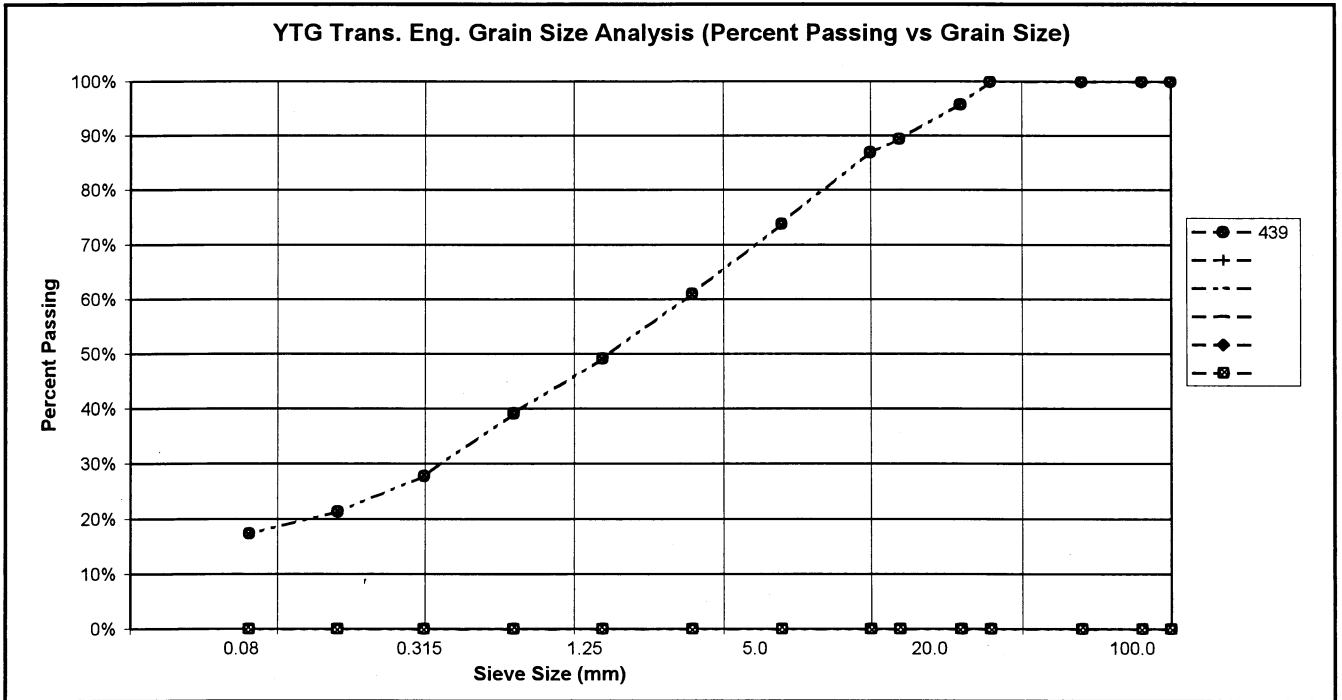


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: See GPS
 LOGGED BY: B.B.

HOLE No.: 608-268

DATE COMP: 2001/07/23

FIELD NO:	439				
LAB NO:	1019				
DEPTH:	2.7-2.8				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	96%				
12.5	89%				
10.0	87%				
5.0	74%				
2.5	61%				
1.25	49%				
0.630	39%				
0.315	28%				
0.160	21%				
0.080	17%				
M.C.(%):	8%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	26				
% SAND:	56				
% FINES:	17				
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)				

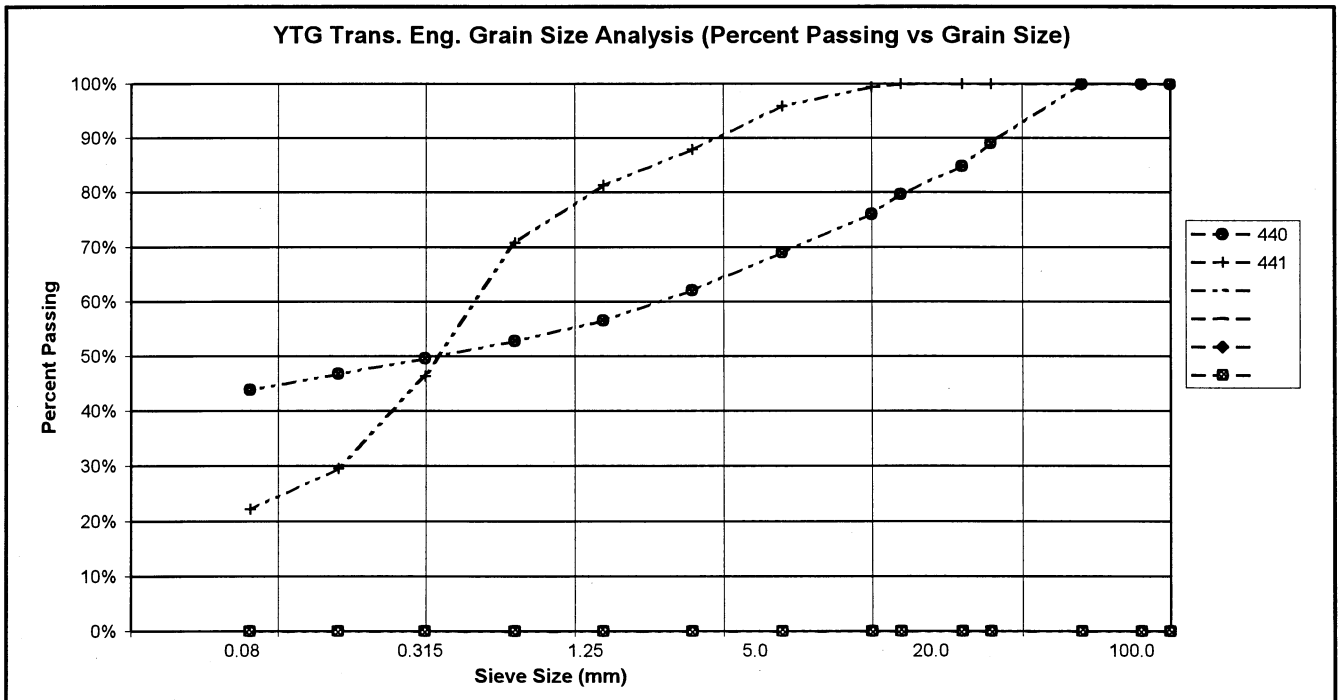


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: See GPS
 LOGGED BY: B.B.

HOLE No.: 608-269

DATE COMP: 2001/07/23

FIELD NO:	440	441			
LAB NO:	1020	1021			
DEPTH:	1.2-1.3	2.6-2.7			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	89%	100%			
20.0	85%	100%			
12.5	80%	100%			
10.0	76%	99%			
5.0	69%	96%			
2.5	62%	88%			
1.25	57%	81%			
0.630	53%	71%			
0.315	50%	46%			
0.160	47%	30%			
0.080	44%	22%			
M.C.(%):	24%	19%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	31	4			
% SAND:	25	74			
% FINES:	44	22			
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)	SILTY SAND (SM)			

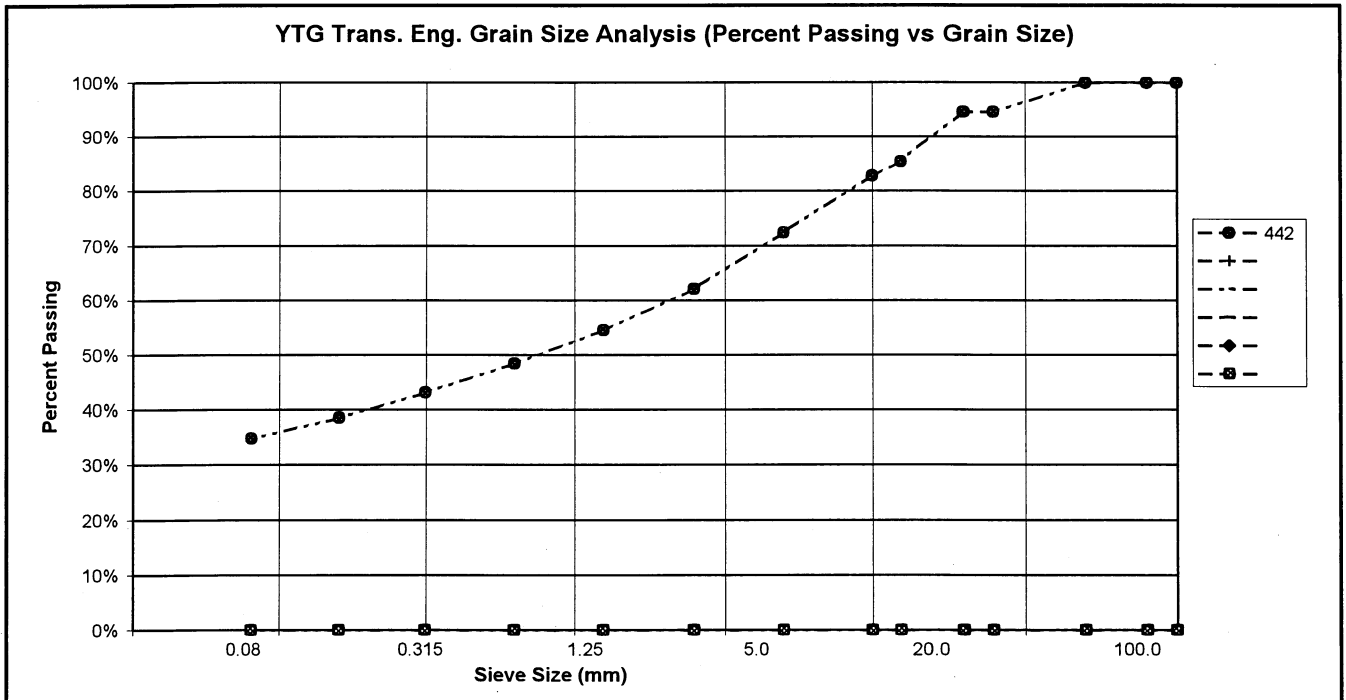


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: See GPS
 LOGGED BY: B.B.

HOLE No.: 608-270

DATE COMP: 2001/07/23

FIELD NO:	442				
LAB NO:	1022				
DEPTH:	1.9-2.0				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	95%				
20.0	95%				
12.5	85%				
10.0	83%				
5.0	72%				
2.5	62%				
1.25	55%				
0.630	48%				
0.315	43%				
0.160	39%				
0.080	35%				
M.C.(%):	19%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	28				
% SAND:	38				
% FINES:	35				
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)				

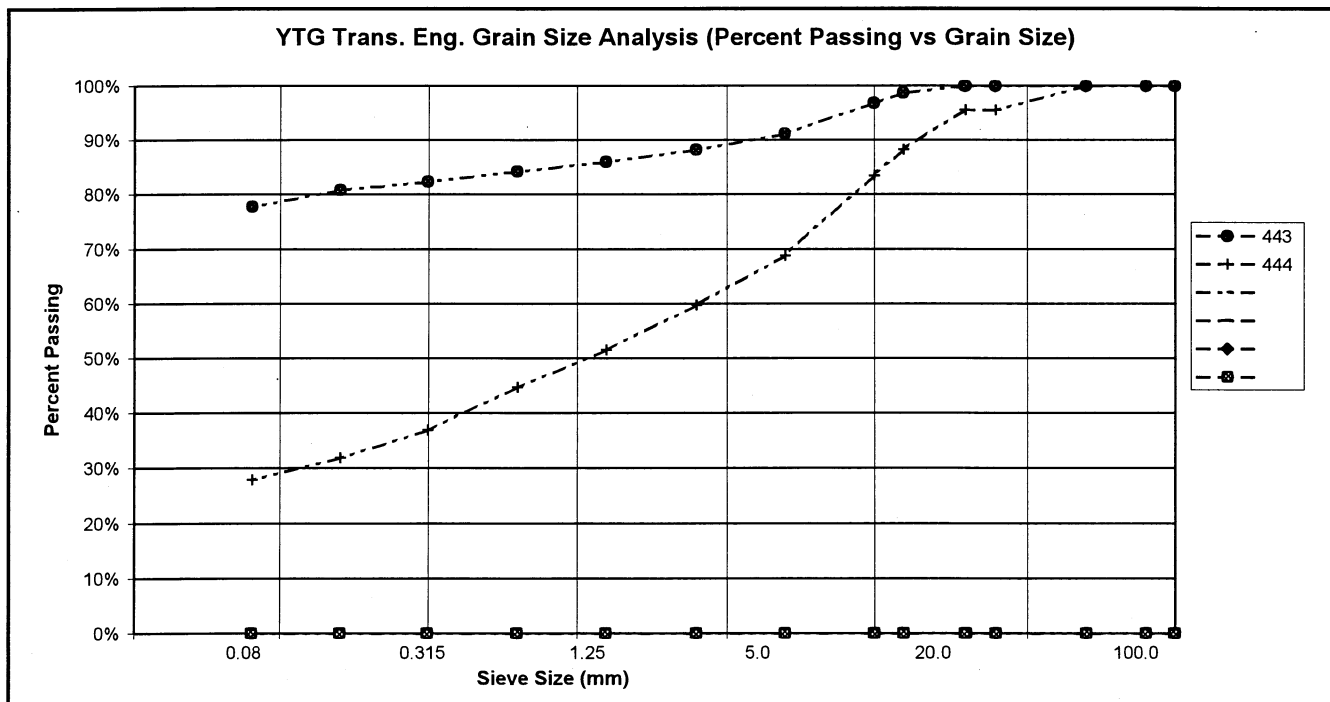


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: See GPS
 LOGGED BY: B.B.

HOLE No.: 608-271

DATE COMP: 2001/07/23

FIELD NO:	443	444			
LAB NO:	1023	1024			
DEPTH:	1.4-1.5	2.8-2.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	95%			
20.0	100%	95%			
12.5	99%	88%			
10.0	97%	83%			
5.0	91%	69%			
2.5	88%	60%			
1.25	86%	52%			
0.630	84%	45%			
0.315	82%	37%			
0.160	81%	32%			
0.080	78%	28%			
M.C.(%):	33%	14%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	9	31			
% SAND:	13	41			
% FINES:	78	28			
CLASSIFICATION	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)			

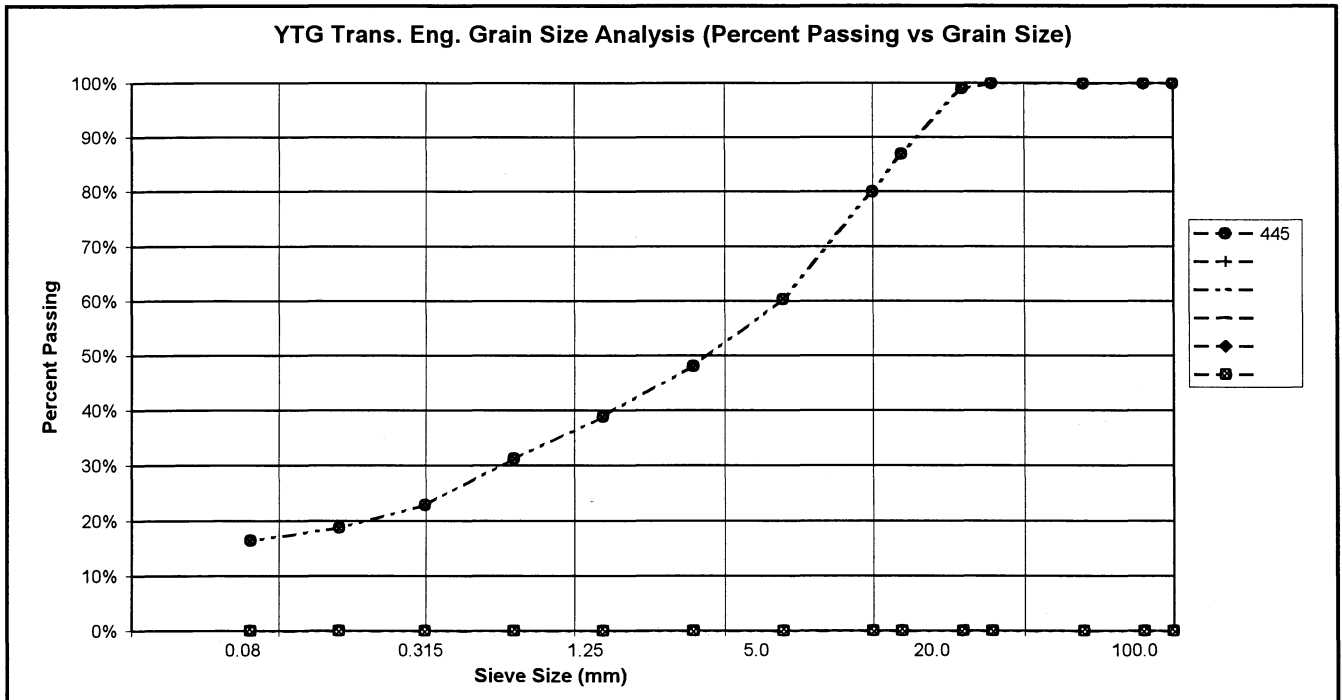


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1784+490
 LOGGED BY: B.B.

HOLE No.: 608-272

DATE COMP: 2001/07/23

FIELD NO:	445				
LAB NO:	1025				
DEPTH:	4.2-4.3				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	99%				
12.5	87%				
10.0	80%				
5.0	60%				
2.5	48%				
1.25	39%				
0.630	31%				
0.315	23%				
0.160	19%				
0.080	16%				
M.C.(%):	21%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	40				
% SAND:	44				
% FINES:	16				
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)				

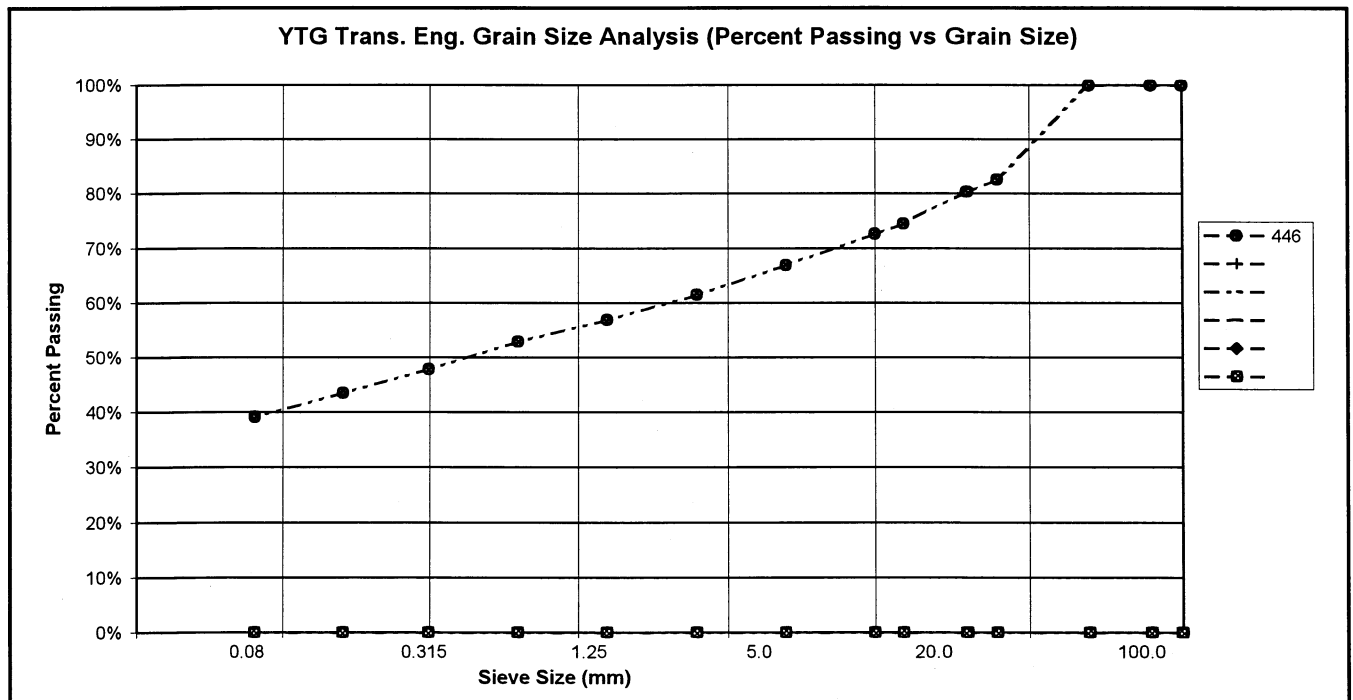


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1784+490 20M LT
 LOGGED BY: B.B.

HOLE No.: 608-273

DATE COMP: 2001/07/23

FIELD NO:	446				
LAB NO:	1026				
DEPTH:	2.7-2.9				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	83%				
20.0	80%				
12.5	75%				
10.0	73%				
5.0	67%				
2.5	62%				
1.25	57%				
0.630	53%				
0.315	48%				
0.160	44%				
0.080	39%				
M.C.(%):	17%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	33				
% SAND:	28				
% FINES:	39				
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)				

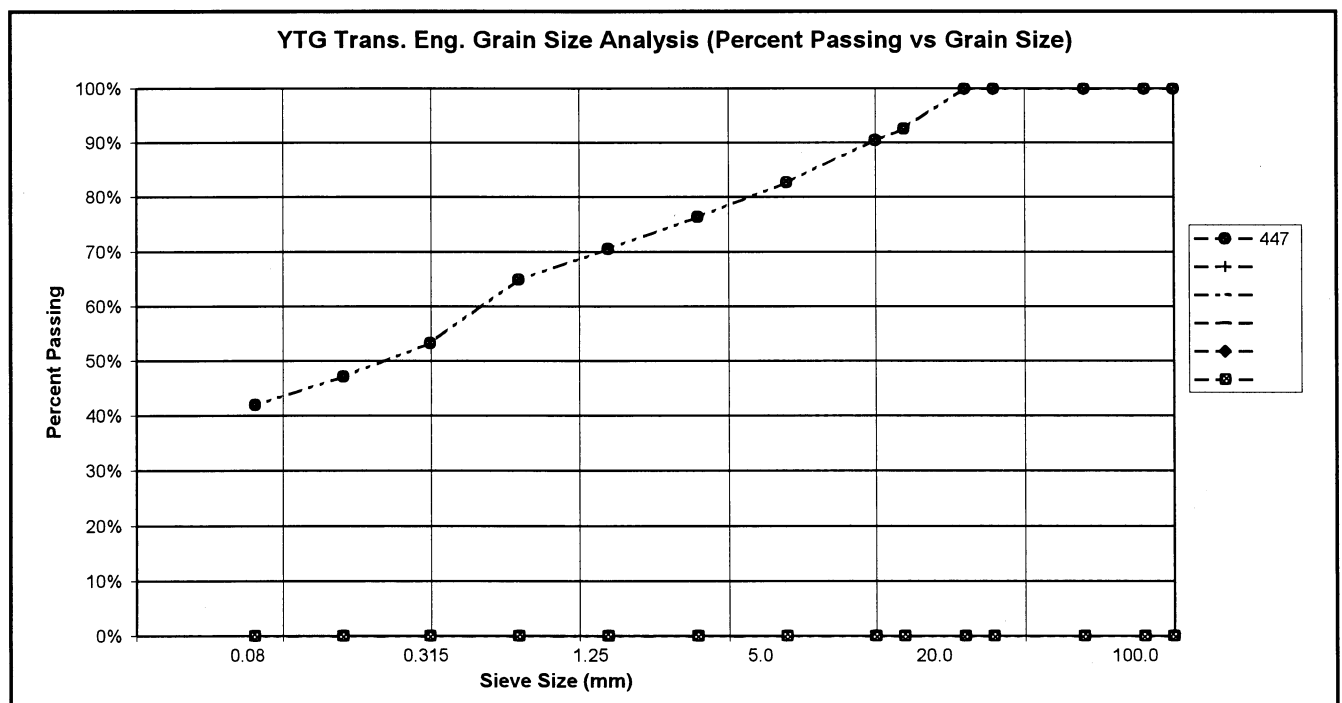


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1784+400 1M RT
 LOGGED BY: B.B.

HOLE No.: 608-274

DATE COMP: 2001/07/23

FIELD NO:	447				
LAB NO:	1027				
DEPTH:	4.3-4.4				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	100%				
12.5	93%				
10.0	90%				
5.0	83%				
2.5	76%				
1.25	70%				
0.630	65%				
0.315	53%				
0.160	47%				
0.080	42%				
M.C.(%)	41%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	17				
% SAND:	41				
% FINES:	42				
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)				

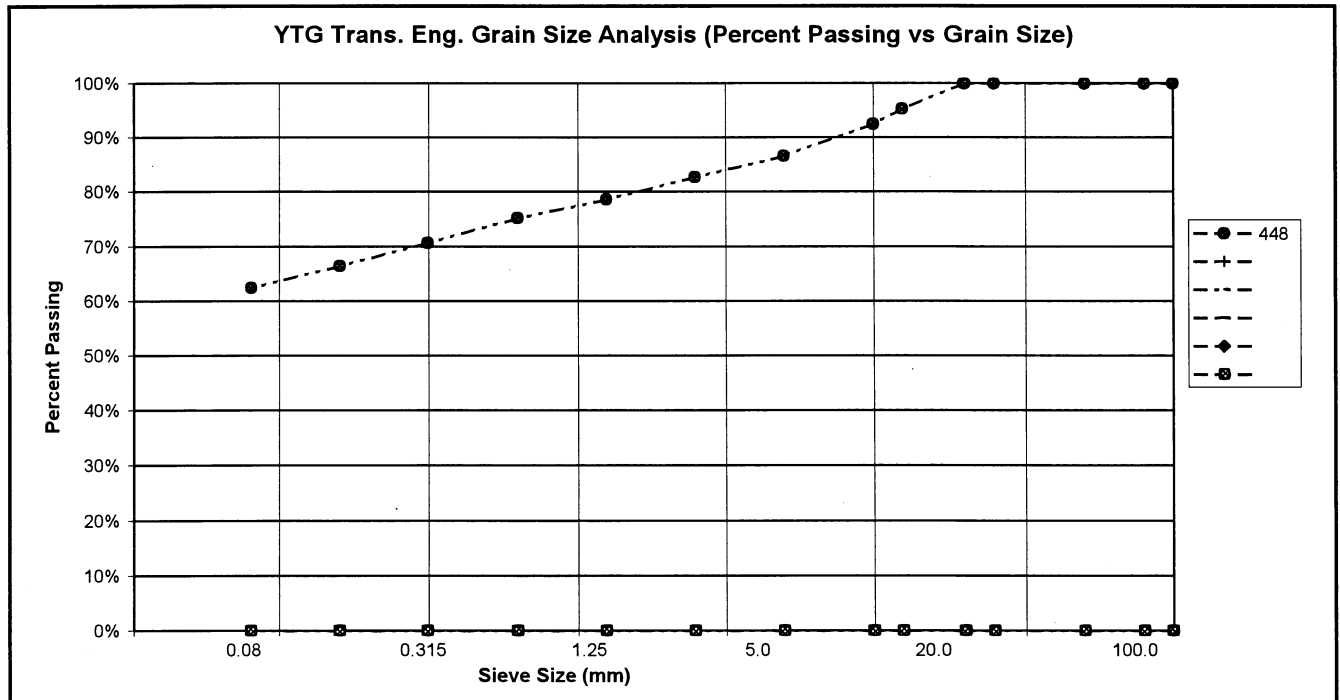


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1784+200 8M LT
 LOGGED BY: B.B.

HOLE No.: 608-276

DATE COMP: 2001/07/23

FIELD NO:	448				
LAB NO:	1028				
DEPTH:	3.2-3.3				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	100%				
12.5	95%				
10.0	92%				
5.0	87%				
2.5	83%				
1.25	79%				
0.630	75%				
0.315	71%				
0.160	66%				
0.080	62%				
M.C.(%)	49%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX:	0.0				
% GRAVEL:	13				
% SAND:	24				
% FINES:	62				
CLASSIFICATION	SANDY SILT (ML)				

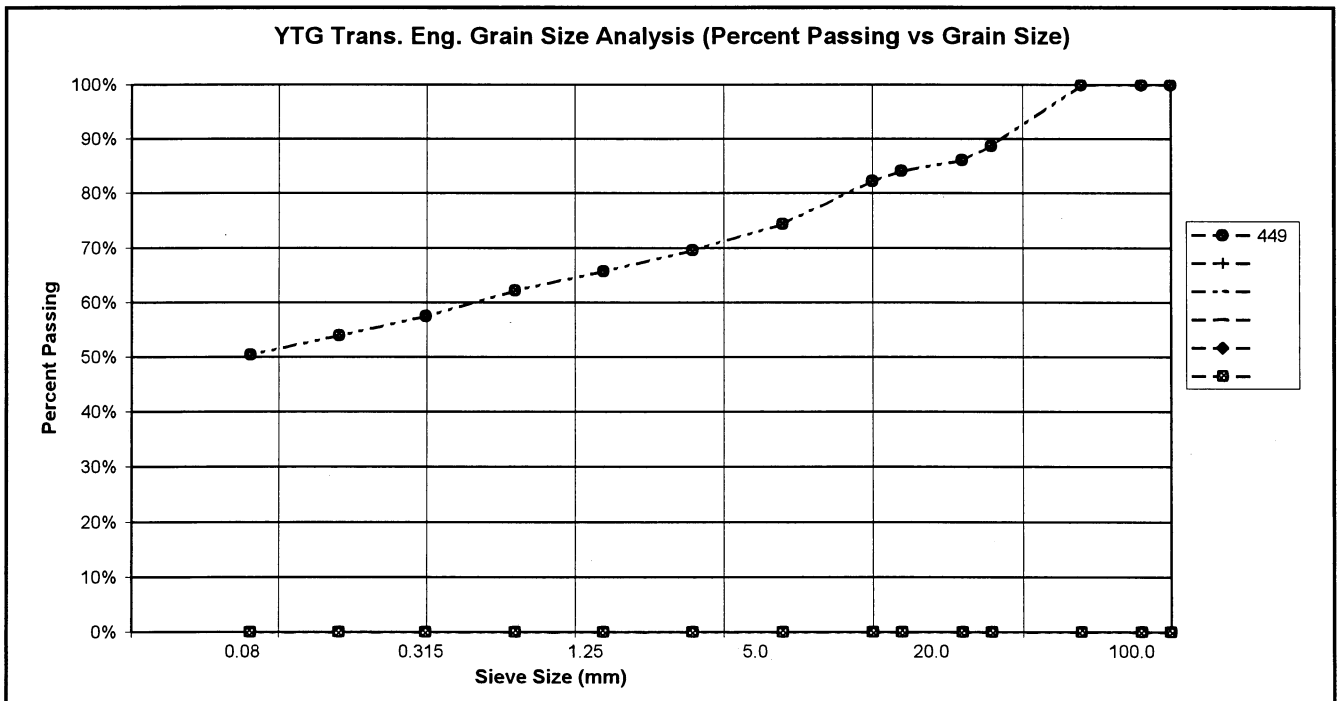


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1784+125 7M LT
 LOGGED BY: B.B.

HOLE No.: 608-277

DATE COMP: 2001/07/23

FIELD NO:	449				
LAB NO:	1029				
DEPTH:	3.0-3.2				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	89%				
20.0	86%				
12.5	84%				
10.0	82%				
5.0	74%				
2.5	70%				
1.25	66%				
0.630	62%				
0.315	57%				
0.160	54%				
0.080	50%				
M.C.(%)	40%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	26				
% SAND:	24				
% FINES:	50				
CLASSIFICATION	GRAVELLY SILT WITH SAND (ML)				

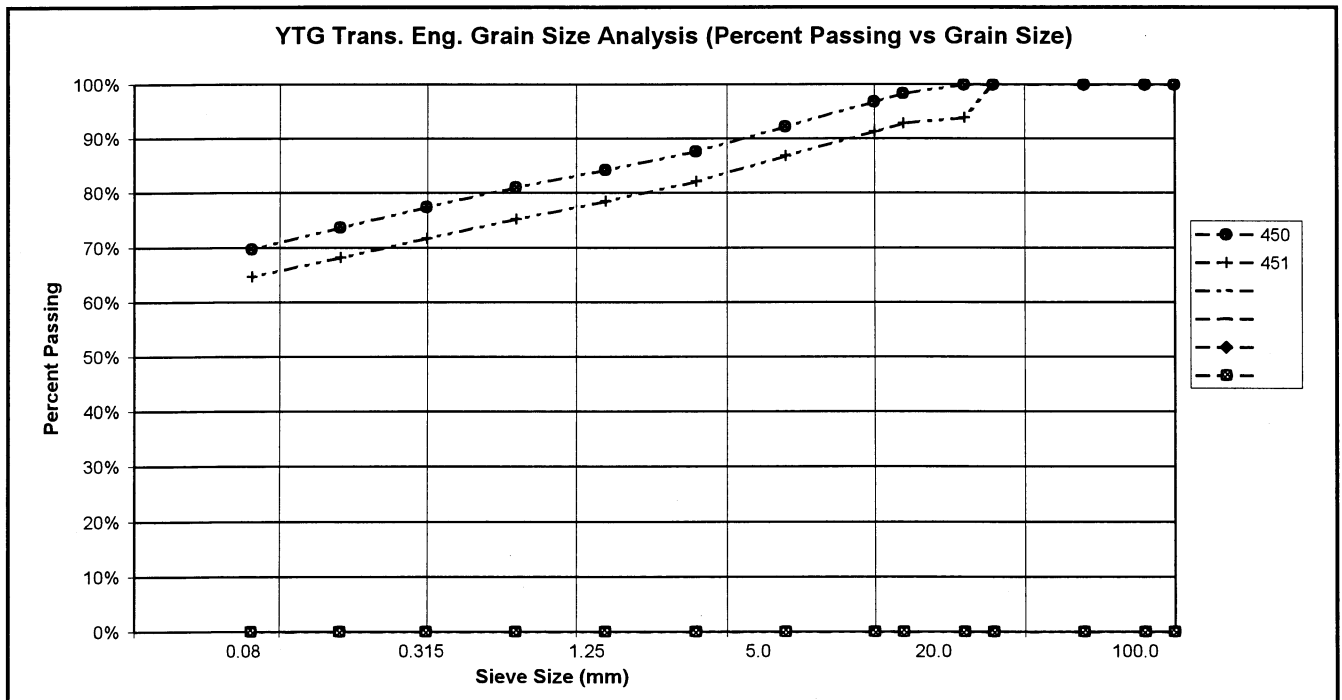


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1784+075
 LOGGED BY: B.B.

HOLE No.: 608-278

DATE COMP: 2001/07/23

FIELD NO:	450	451			
LAB NO:	1030	1031			
DEPTH:	1.9-2.0	5.6-5.8			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	94%			
12.5	98%	93%			
10.0	97%	91%			
5.0	92%	87%			
2.5	88%	82%			
1.25	84%	79%			
0.630	81%	75%			
0.315	77%	72%			
0.160	74%	68%			
0.080	70%	65%			
M.C.(%):	35%	39%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	8	13			
% SAND:	23	22			
% FINES:	70	65			
CLASSIFICATION	SANDY SILT (ML)	SANDY SILT (ML)			

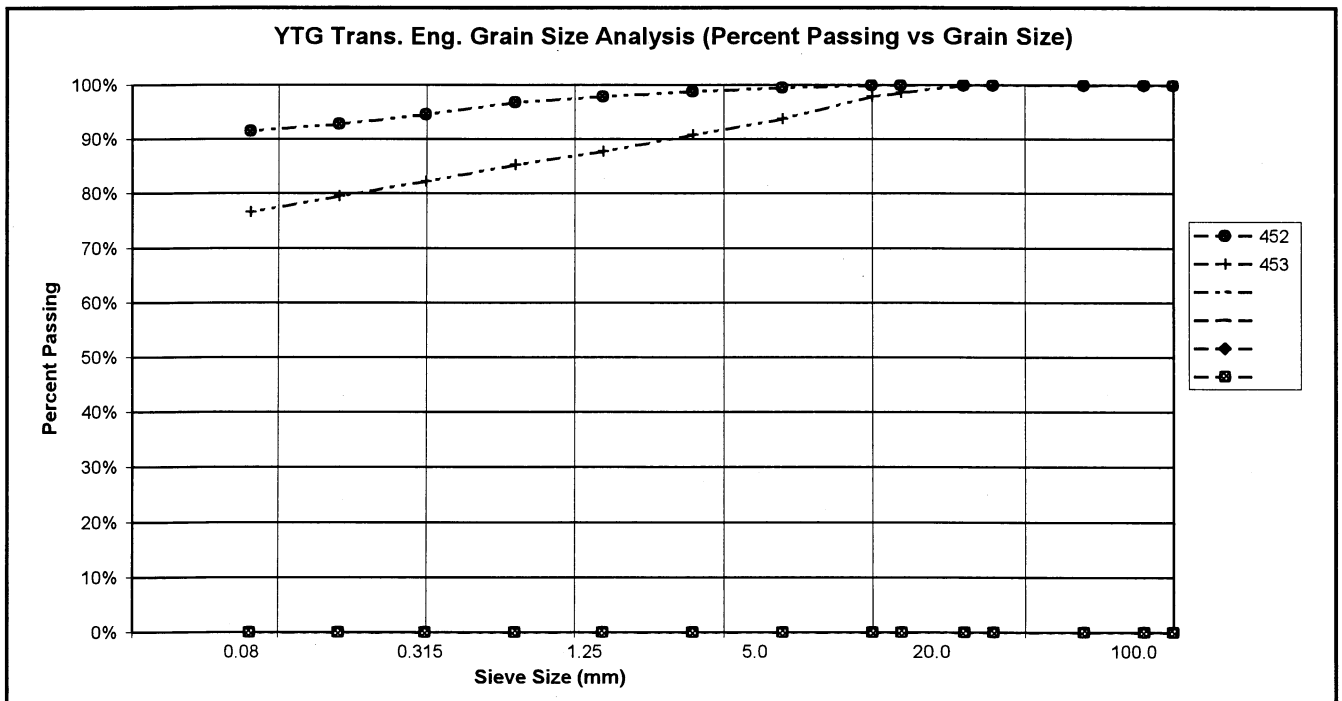


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 AVH
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1783+987 20M LT
 LOGGED BY: B.B.

HOLE No.: 608-279

DATE COMP: 2001/07/23

FIELD NO:	452	453			
LAB NO:	1032	1033			
DEPTH:	1.3-1.4	5.7-5.8			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	100%			
12.5	100%	99%			
10.0	100%	98%			
5.0	100%	94%			
2.5	99%	91%			
1.25	98%	88%			
0.630	97%	85%			
0.315	95%	82%			
0.160	93%	80%			
0.080	92%	77%			
M.C.(%)	23%	17%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	0	6			
% SAND:	8	17			
% FINES:	92	77			
CLASSIFICATION	SILT (ML)	SILT WITH SAND (ML)			

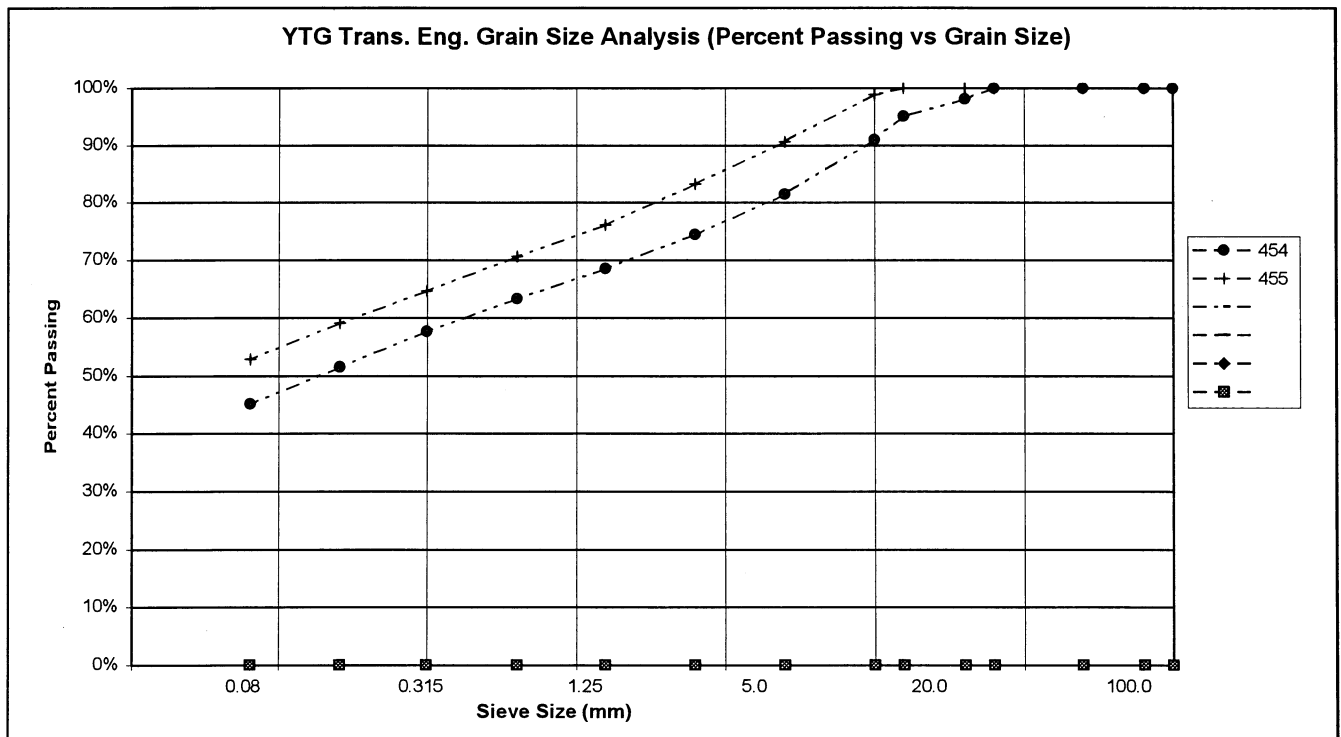


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1783+923 3MRT
 LOGGED BY: B.B.

HOLE No.: 608-280

DATE COMP: 2001/07/24

FIELD NO:	454	455			
LAB NO:	1034	1035			
DEPTH:	1.3-1.4	5.8-5.9			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	98%	100%			
12.5	95%	100%			
10.0	91%	99%			
5.0	81%	91%			
2.5	74%	83%			
1.25	69%	76%			
0.630	63%	71%			
0.315	58%	65%			
0.160	52%	59%			
0.080	45%	53%			
M.C.(%):	19%	12%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	19	9			
% SAND:	36	38			
% FINES:	45	53			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)			

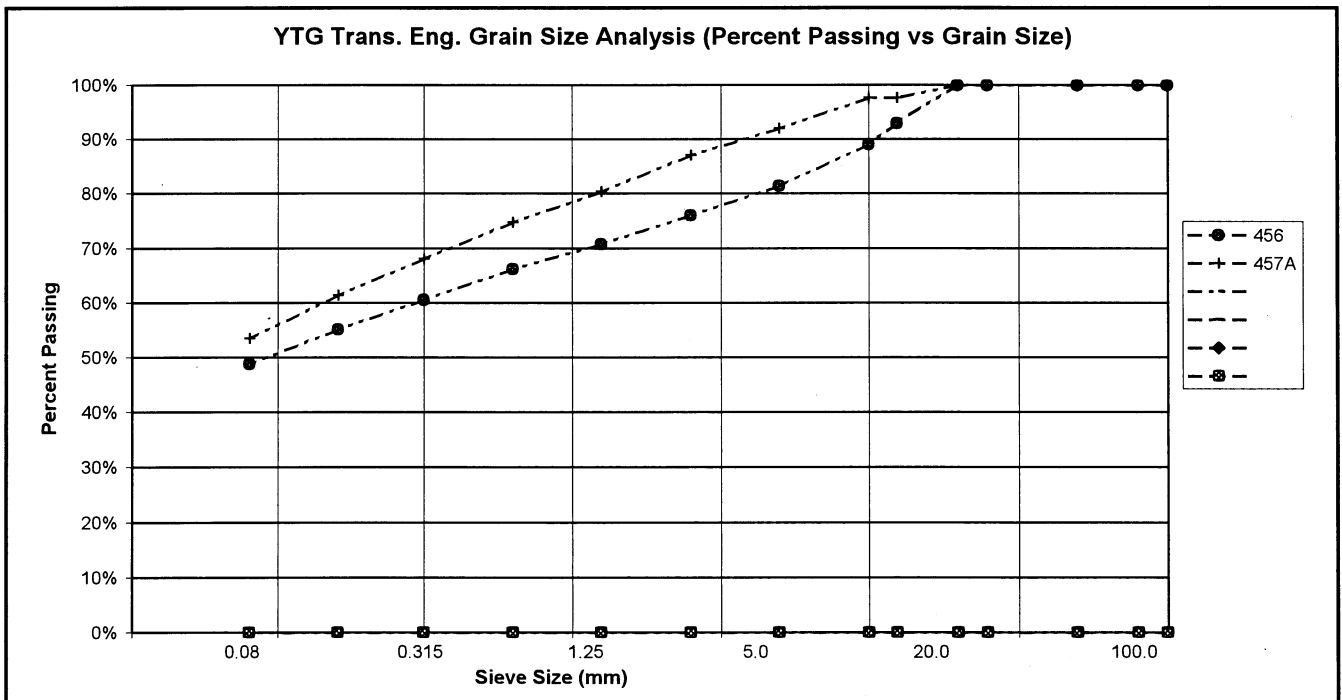


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1783+830 1M LT
 LOGGED BY: B.B.

HOLE No.: 608-281

DATE COMP: 2001/07/24

FIELD NO:	456	457A			
LAB NO:	1036	1037			
DEPTH:	1.2-1.3	5.7-5.8			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	100%			
12.5	93%	98%			
10.0	89%	98%			
5.0	81%	92%			
2.5	76%	87%			
1.25	71%	80%			
0.630	66%	75%			
0.315	61%	68%			
0.160	55%	61%			
0.080	49%	54%			
M.C.(%):	13%	9%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	19	8			
% SAND:	33	38			
% FINES:	49	54			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)			

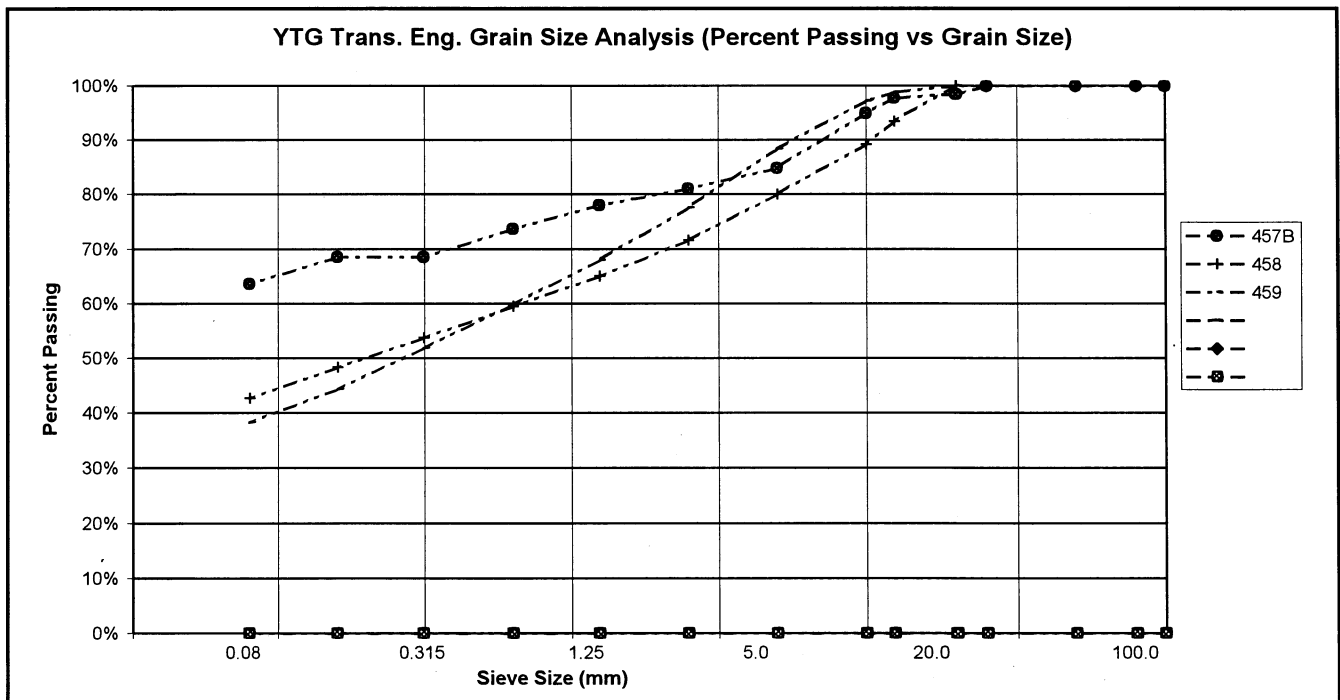


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1783+830 22RT
 LOGGED BY: B.B.

HOLE No.: 608-282

DATE COMP: 2001/07/25

FIELD NO:	457B	458	459		
LAB NO:	1038	1039	1040		
DEPTH:	1.2-1.3	3.7-3.8	5.7-5.9		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	100%	100%		
20.0	98%	100%	100%		
12.5	98%	93%	99%		
10.0	95%	89%	97%		
5.0	85%	80%	88%		
2.5	81%	72%	78%		
1.25	78%	65%	68%		
0.630	74%	59%	60%		
0.315	69%	54%	52%		
0.160	69%	48%	44%		
0.080	64%	43%	38%		
M.C.(%)	16%	15%	15%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0		
% GRAVEL:	15	20	12		
% SAND:	21	37	50		
% FINES:	64	43	38		
CLASSIFICATION	SANDY SILT WITH GRAVEL (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND (SM)		

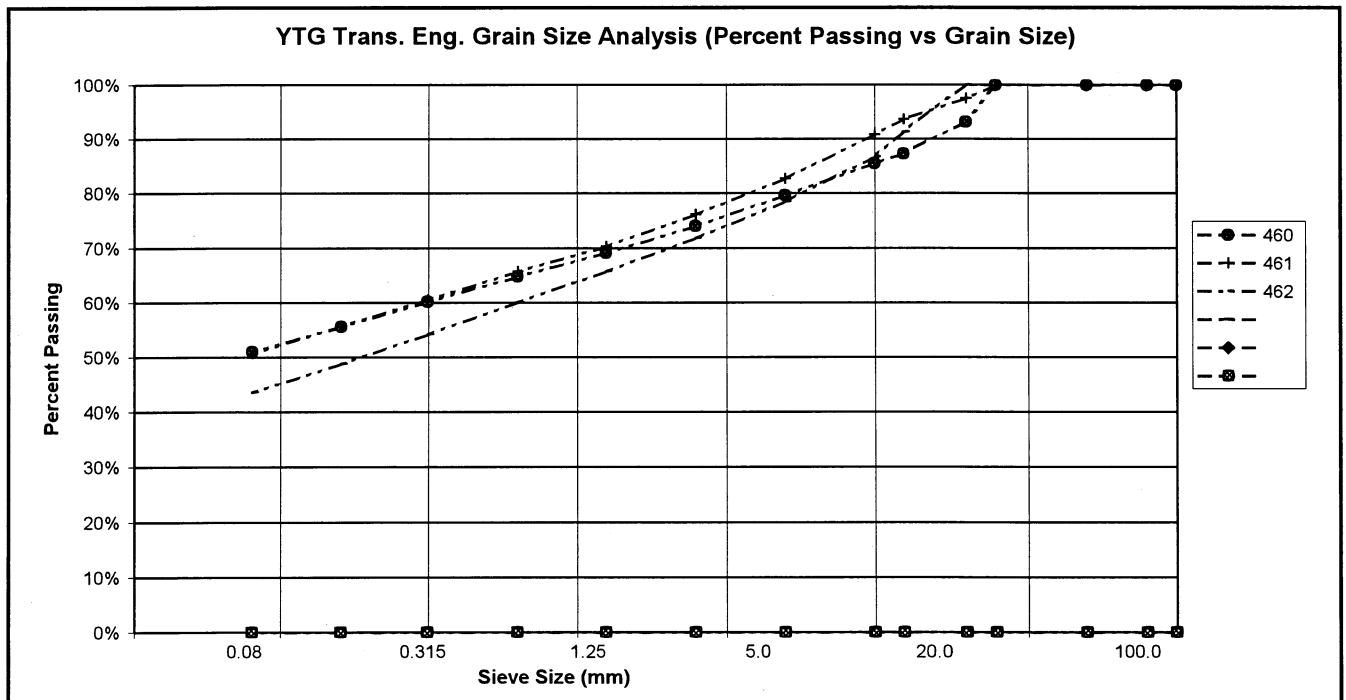


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1783+830 19M LT
 LOGGED BY: B.B.

HOLE No.: 608-283

DATE COMP: 2001/07/25

FIELD NO:	460	461	462		
LAB NO:	1041	1042	1043		
DEPTH:	1.2-1.3	2.7-2.8	5.7-5.9		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	100%	100%		
20.0	93%	98%	100%		
12.5	87%	94%	91%		
10.0	86%	91%	87%		
5.0	80%	83%	79%		
2.5	74%	76%	72%		
1.25	69%	70%	66%		
0.630	65%	66%	60%		
0.315	60%	61%	54%		
0.160	56%	56%	49%		
0.080	51%	51%	44%		
M.C.(%)	13%	13%	10%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0		
% GRAVEL:	20	17	21		
% SAND:	29	32	35		
% FINES:	51	51	44		
CLASSIFICATION	SANDY SILT WITH GRAVEL (ML)	SANDY SILT WITH GRAVEL (ML)	SILTY SAND WITH GRAVEL (SM)		

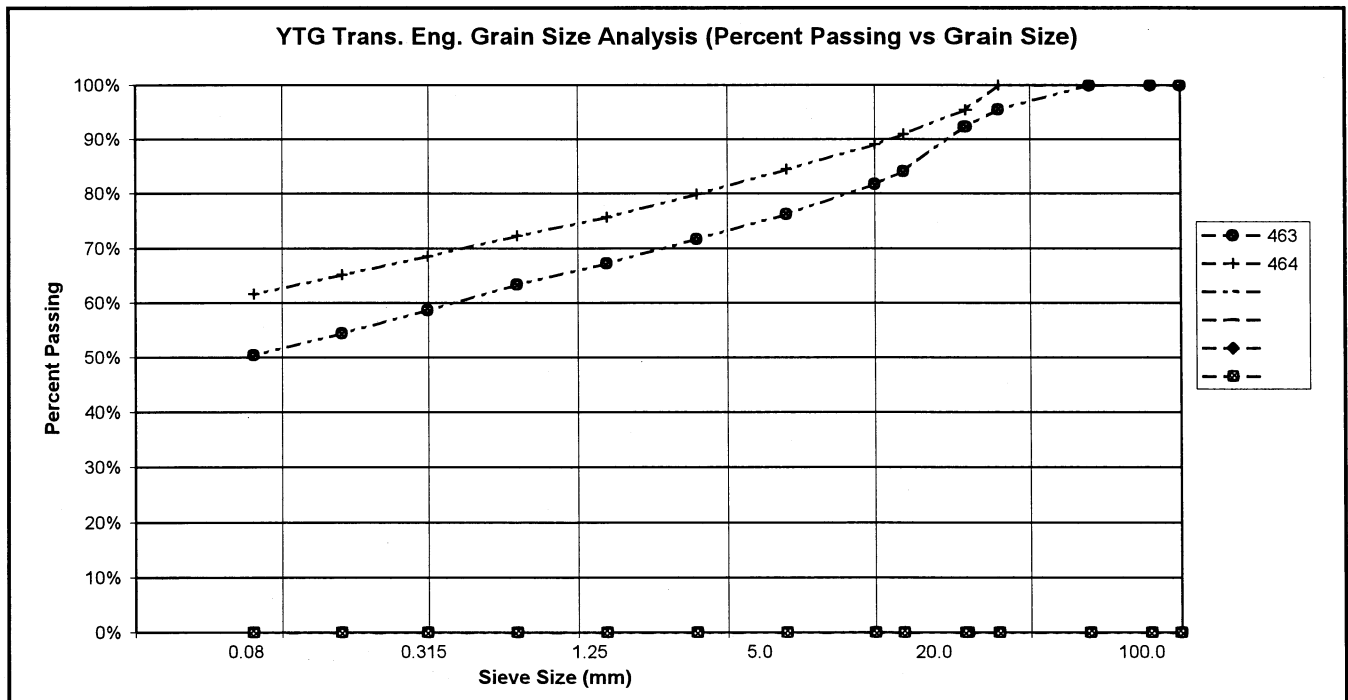


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1783+743
 LOGGED BY: B.B.

HOLE No.: 608-284

DATE COMP: 2001/07/25

FIELD NO:	463	464			
LAB NO:	1044	1045			
DEPTH:	1.3-1.4	4.3-4.4			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	96%	100%			
20.0	92%	95%			
12.5	84%	91%			
10.0	82%	89%			
5.0	76%	85%			
2.5	72%	80%			
1.25	67%	76%			
0.630	63%	72%			
0.315	59%	69%			
0.160	55%	65%			
0.080	51%	62%			
M.C.(%):	24%	14%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	24	15			
% SAND:	26	23			
% FINES:	51	62			
CLASSIFICATION	SANDY SILT WITH GRAVEL (ML)	SANDY SILT WITH GRAVEL (ML)			

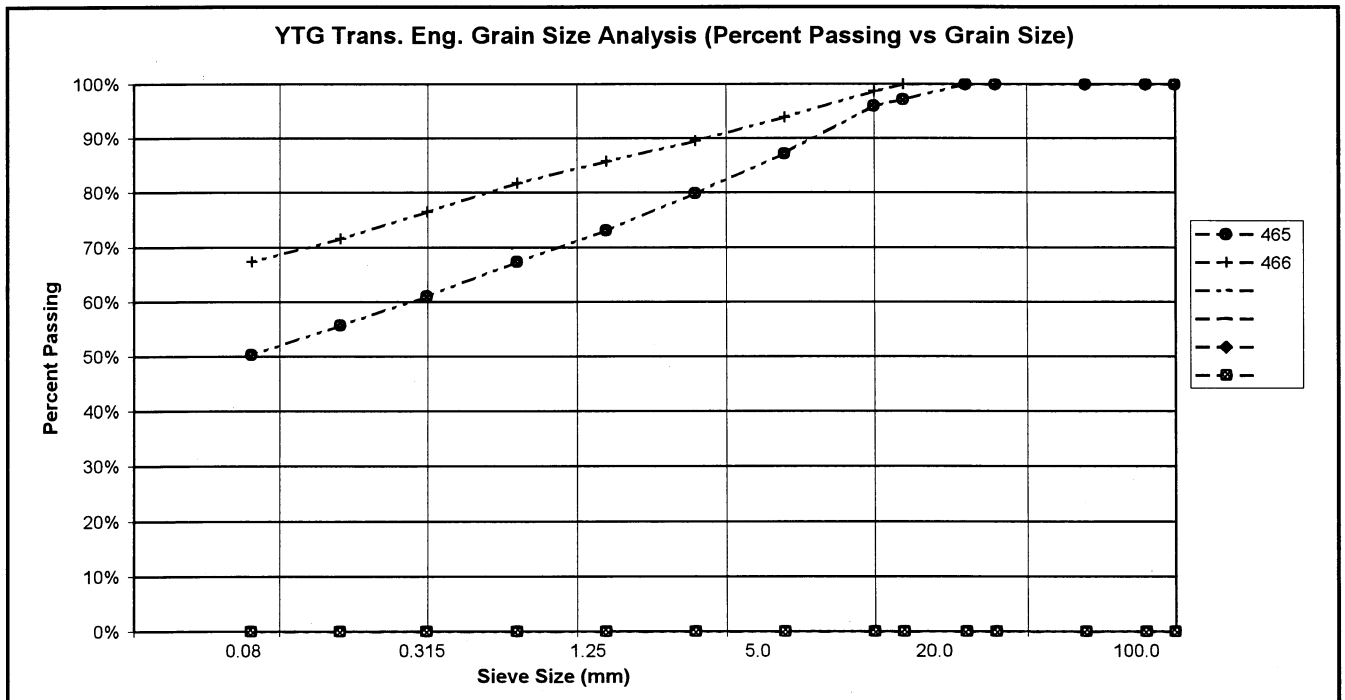


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1783+743 21M RT
 LOGGED BY: B.B.

HOLE No.: 608-285

DATE COMP: 2001/07/25

FIELD NO:	465	466			
LAB NO:	1046	1047			
DEPTH:	1.3-1.4	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	100%			
12.5	97%	100%			
10.0	96%	99%			
5.0	87%	94%			
2.5	80%	90%			
1.25	73%	86%			
0.630	67%	82%			
0.315	61%	77%			
0.160	56%	72%			
0.080	50%	67%			
M.C.(%)	18%	17%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	13	6			
% SAND:	37	27			
% FINES:	50	67			
CLASSIFICATION	SANDY SILT (ML)	SANDY SILT (ML)			

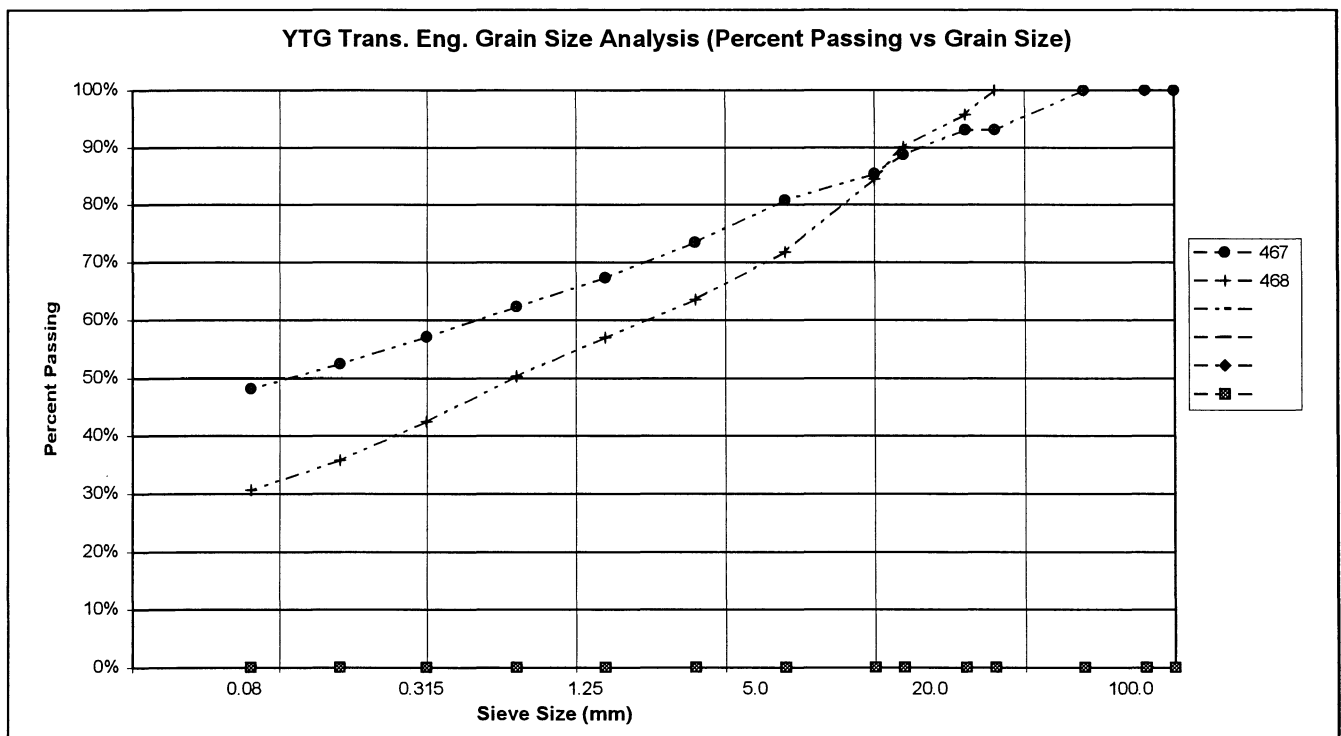


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1783+745 20M LT
 LOGGED BY: B.B.

HOLE No.: 608-286

DATE COMP: 2001/07/25

FIELD NO:	467	468			
LAB NO:	1048	1049			
DEPTH:	1.2-1.3	4.2-4.3			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	93%	100%			
20.0	93%	96%			
12.5	89%	90%			
10.0	85%	84%			
5.0	81%	72%			
2.5	74%	63%			
1.25	67%	57%			
0.630	62%	50%			
0.315	57%	42%			
0.160	52%	36%			
0.080	48%	31%			
M.C.(%):	24%	10%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	19	28			
% SAND:	33	41			
% FINES:	48	31			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)			

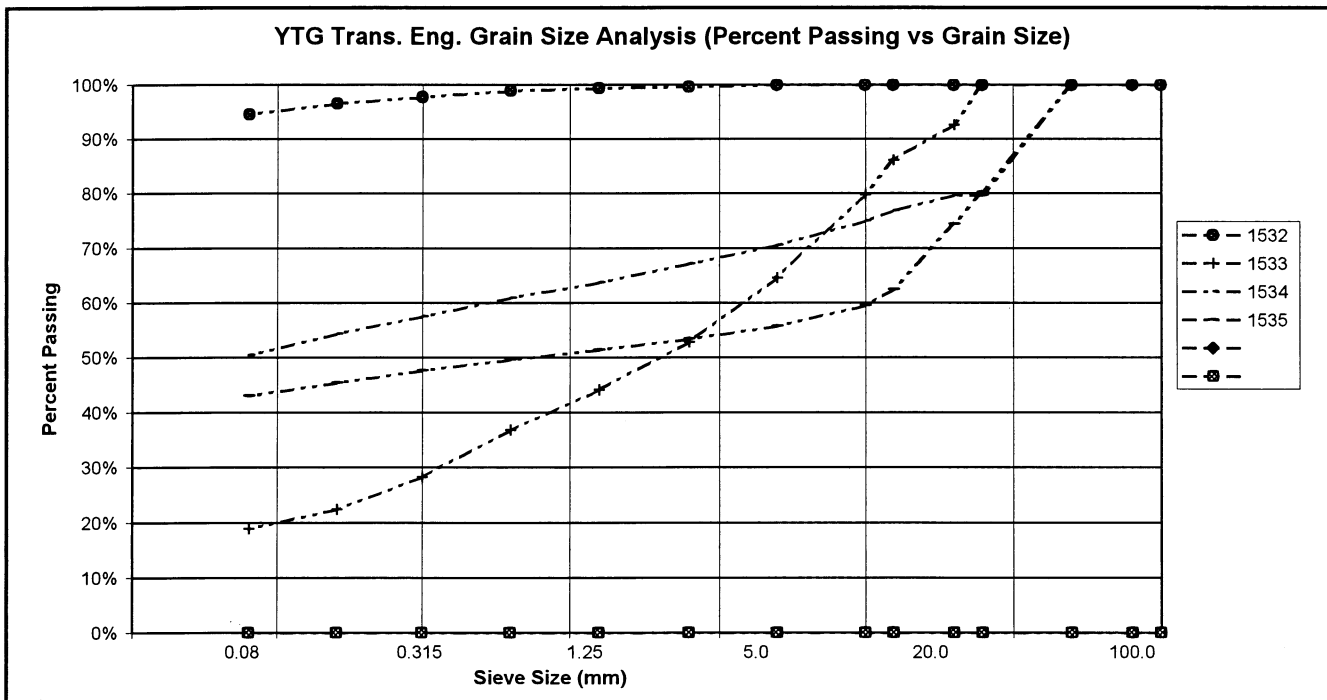


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1783+025 3M LT
 LOGGED BY: G.C.

HOLE No.: 629-1687

DATE COMP: 2001/11/15

FIELD NO:	1532	1533	1534	1535		
LAB NO:	2421	2422	2423	2424		
DEPTH:	0.5-1.0	1.5-2.0	2.5-3.0	4.0-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	80%	80%		
20.0	100%	93%	80%	74%		
12.5	100%	86%	77%	62%		
10.0	100%	80%	75%	59%		
5.0	100%	65%	71%	56%		
2.5	100%	53%	67%	53%		
1.25	99%	44%	64%	51%		
0.630	99%	37%	61%	50%		
0.315	98%	28%	57%	48%		
0.160	97%	22%	54%	45%		
0.080	95%	19%	50%	43%		
M.C.(%)	31%	9%	16%	9%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0	0.0		
% GRAVEL:	0	35	29	44		
% SAND:	5	46	20	13		
% FINES:	95	19	50	43		
CLASSIFICATION	SILT (ML)	SILTY SAND WITH GRAVEL (SM)	GRAVELLY SILT WITH SAND (ML)	SILTY GRAVEL (GM)		

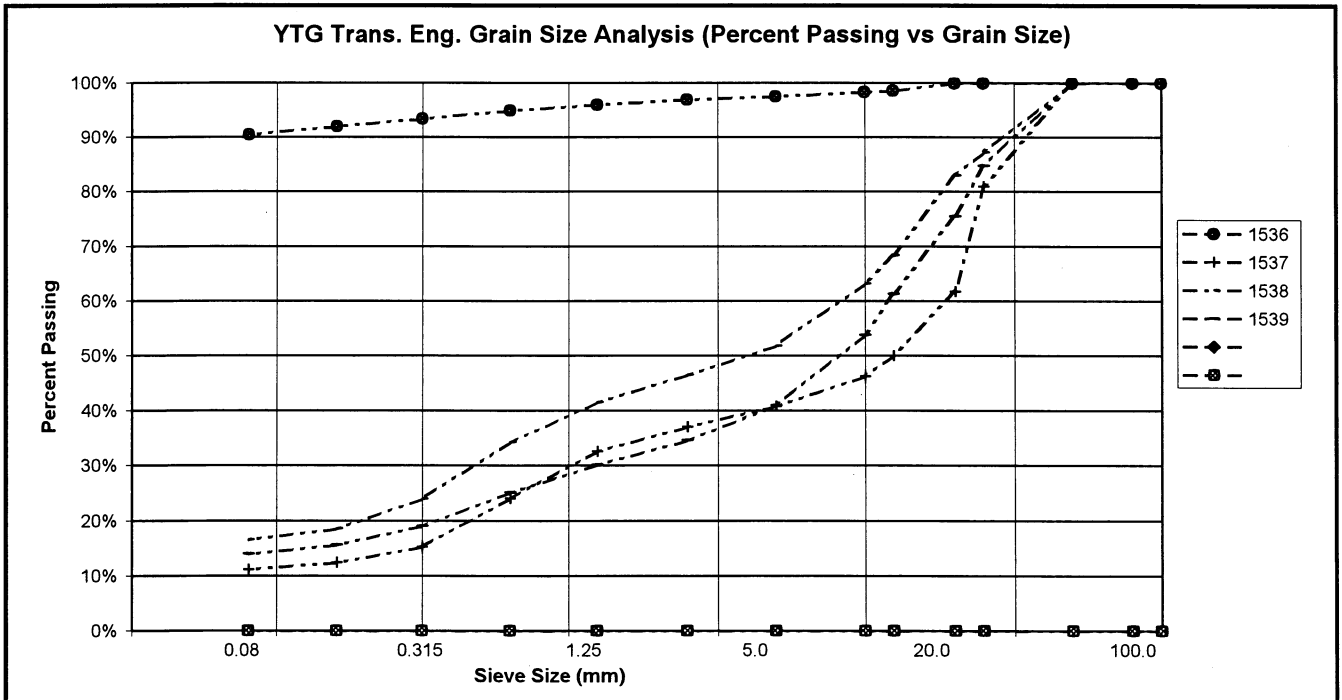


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1783+125 3M LT
 LOGGED BY: G.C.

HOLE No.: 629-1688

DATE COMP: 2001/11/15

FIELD NO:	1536	1537	1538	1539		
LAB NO:	2425	2426	2427	2428		
DEPTH:	0.5-1.0	1.5-2.0	2.5-3.0	4.0-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	81%	87%	85%		
20.0	100%	62%	83%	75%		
12.5	99%	50%	68%	61%		
10.0	98%	46%	63%	54%		
5.0	98%	41%	52%	41%		
2.5	97%	37%	46%	35%		
1.25	96%	33%	42%	30%		
0.630	95%	24%	34%	25%		
0.315	93%	15%	24%	19%		
0.160	92%	12%	19%	16%		
0.080	91%	11%	17%	14%		
M.C.(%):	20%	4%	5%	5%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	2	59	48	59		
% SAND:	7	30	35	27		
% FINES:	91	11	17	14		
CLASSIFICATION	SILT (ML)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY GRAVEL WITH SAND (GM)	SILTY GRAVEL WITH SAND (GM)		

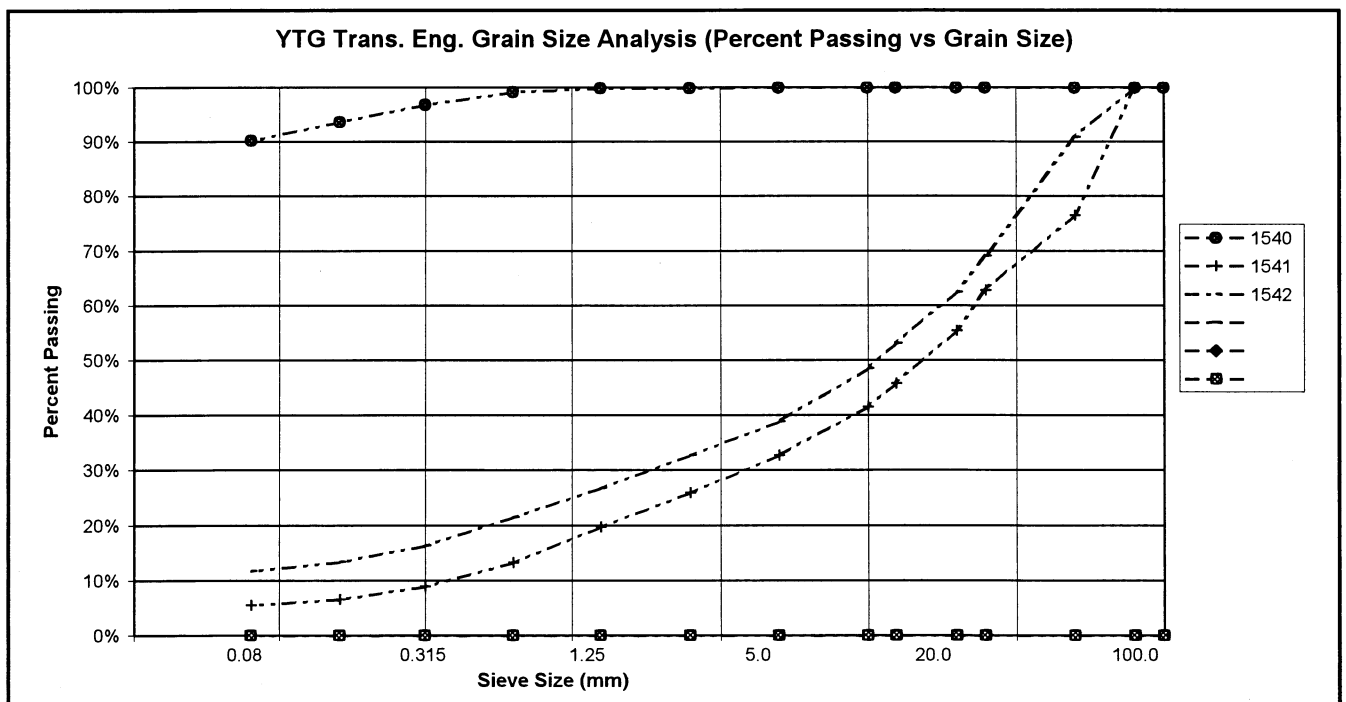


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1783+200 10M RT
 LOGGED BY: G.C.

HOLE No.: 629-1689

DATE COMP: 2001/11/15

FIELD NO:	1540	1541	1542		
LAB NO:	2429	2430	2431		
DEPTH:	0.5-0.8	1.5-2.0	2.5-3.0		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	77%	91%		
25.0	100%	63%	69%		
20.0	100%	55%	62%		
12.5	100%	46%	53%		
10.0	100%	42%	48%		
5.0	100%	33%	39%		
2.5	100%	26%	33%		
1.25	100%	20%	27%		
0.630	99%	13%	21%		
0.315	97%	9%	16%		
0.160	94%	7%	13%		
0.080	90%	5%	12%		
M.C.(%)	54%	5%	9%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0		
% GRAVEL:	0	67	61		
% SAND:	10	27	27		
% FINES:	90	5	12		
CLASSIFICATION	SILT (ML)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		

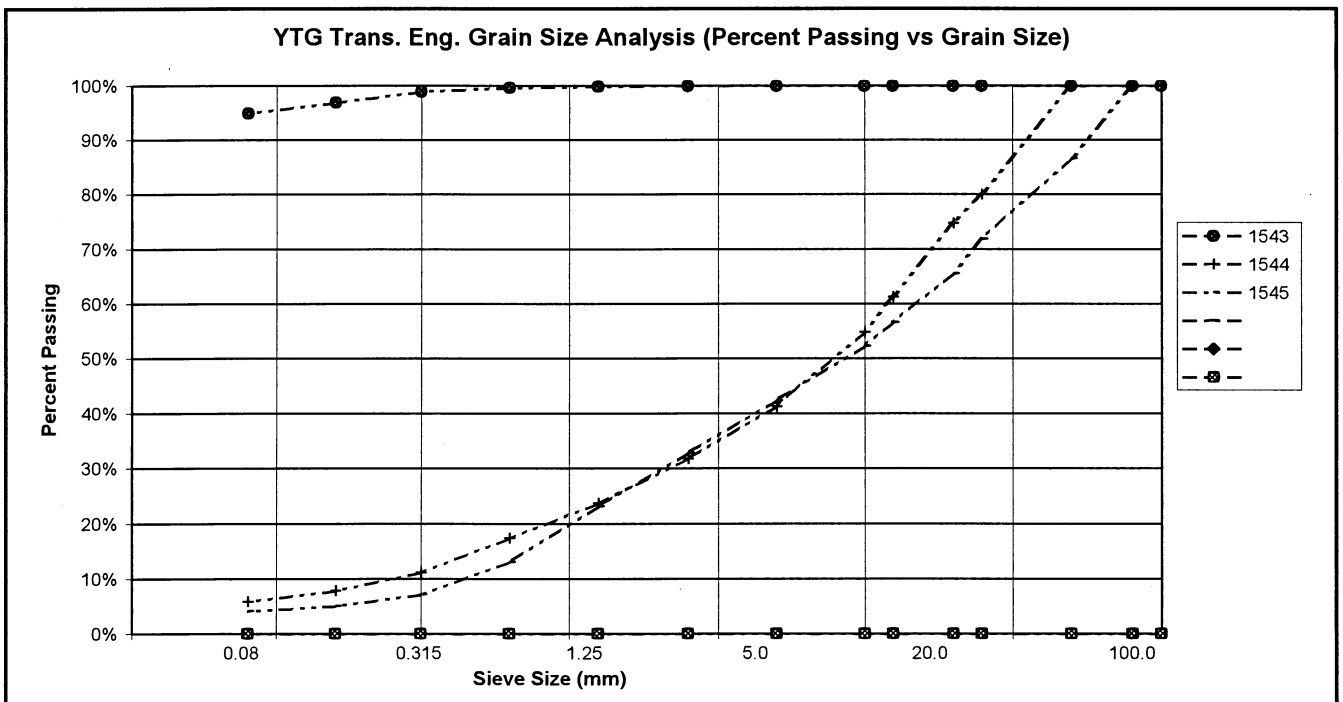


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1783+200 CENTRELINE
 LOGGED BY: G.C.

HOLE No.: 629-1690

DATE COMP: 2001/11/15

FIELD NO:	1543	1544	1545		
LAB NO:	2432	2433	2434		
DEPTH:	0.5-1.0	1.5-2.0	2.5-3.0		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	87%		
25.0	100%	80%	72%		
20.0	100%	75%	66%		
12.5	100%	61%	57%		
10.0	100%	55%	52%		
5.0	100%	41%	42%		
2.5	100%	32%	33%		
1.25	100%	24%	23%		
0.630	100%	17%	13%		
0.315	99%	11%	7%		
0.160	97%	8%	5%		
0.080	95%	6%	4%		
M.C.(%)	53%	4%	4%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	0	59	58		
% SAND:	5	35	38		
% FINES:	95	6	4		
CLASSIFICATION	SILT (ML)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SAND (GP)		

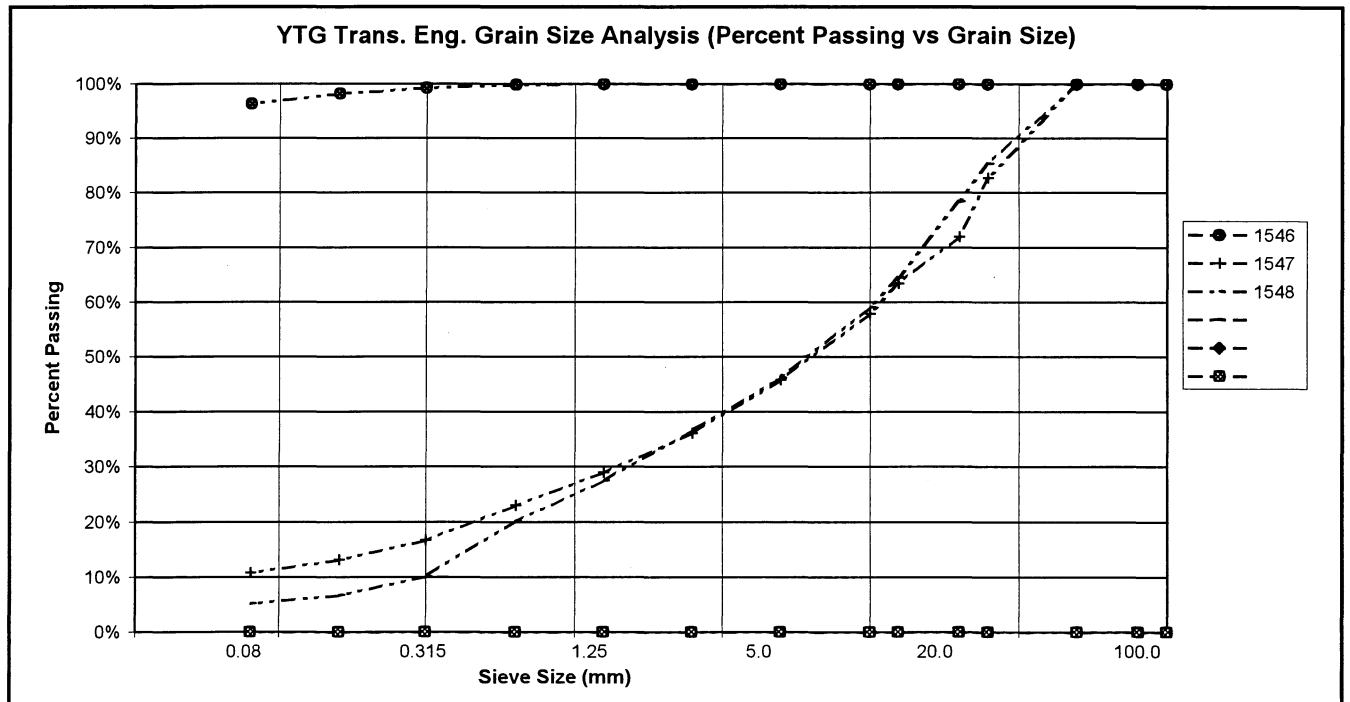


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1783+200 25M LT
 LOGGED BY: G.C.

HOLE No.: 629-1691

DATE COMP: 2001/11/15

FIELD NO:	1546	1547	1548		
LAB NO:	2435	2436	2437		
DEPTH:	0.5-1.0	1.6-2.0	2.5-3.0		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	83%	85%		
20.0	100%	72%	78%		
12.5	100%	63%	64%		
10.0	100%	58%	59%		
5.0	100%	46%	46%		
2.5	100%	36%	37%		
1.25	100%	29%	27%		
0.630	100%	23%	20%		
0.315	99%	17%	10%		
0.160	98%	13%	7%		
0.080	96%	11%	5%		
M.C.(%)	48%	7%	5%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	0	54	54		
% SAND:	4	35	41		
% FINES:	96	11	5		
CLASSIFICATION	SILT (ML)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		

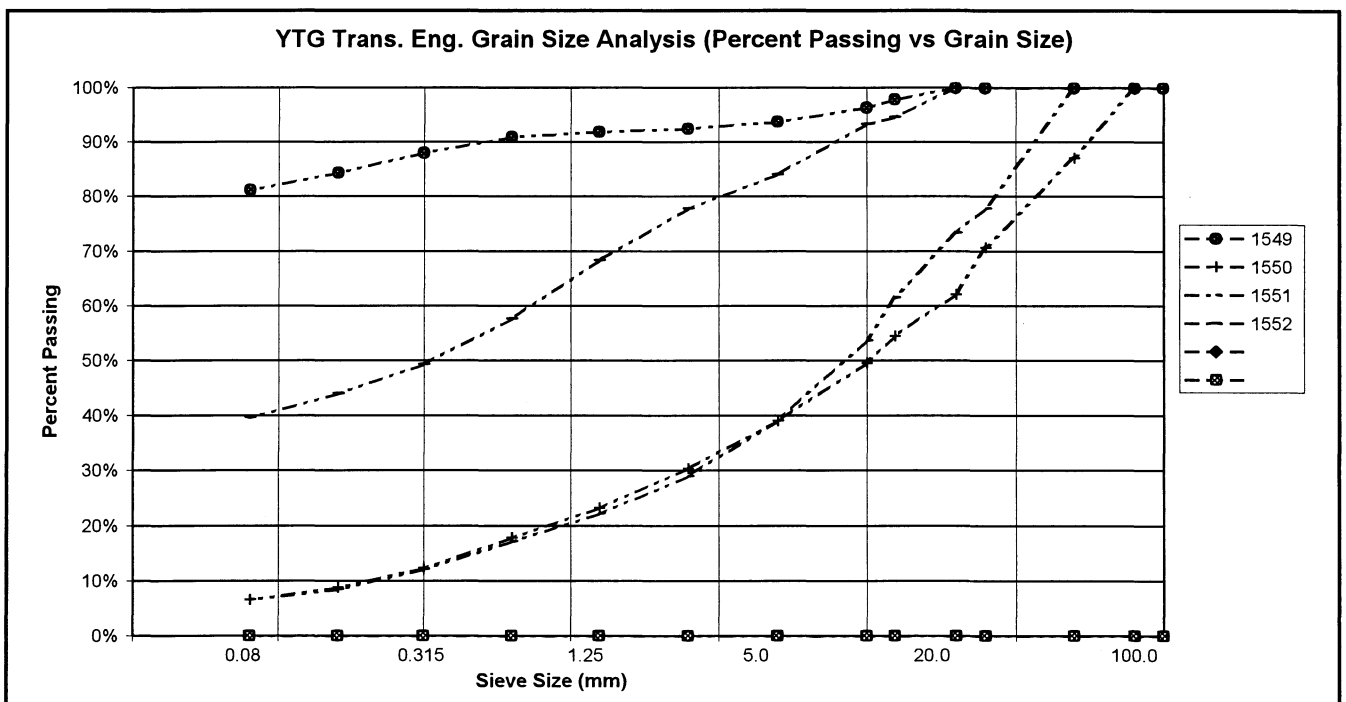


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1783+250 3M LT
 LOGGED BY: G.C.

HOLE No.: 629-1692

DATE COMP: 2001/11/15

FIELD NO:	1549	1550	1551	1552		
LAB NO:	2438	2439	2440	2441		
DEPTH:	0.4-0.8	1.5-2.0	2.5-3.0	4.0-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	87%	100%	100%		
25.0	100%	71%	78%	100%		
20.0	100%	62%	73%	100%		
12.5	98%	54%	62%	95%		
10.0	96%	49%	54%	93%		
5.0	94%	39%	39%	84%		
2.5	93%	30%	29%	78%		
1.25	92%	23%	22%	68%		
0.630	91%	18%	17%	58%		
0.315	88%	12%	12%	49%		
0.160	84%	9%	8%	44%		
0.080	81%	7%	7%	40%		
M.C.(%)	26%	4%	4%	13%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	6	61	61	16		
% SAND:	12	33	33	44		
% FINES:	81	7	7	40		
CLASSIFICATION	SILT WITH SAND (ML)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)	SILTY SAND WITH GRAVEL (SM)		

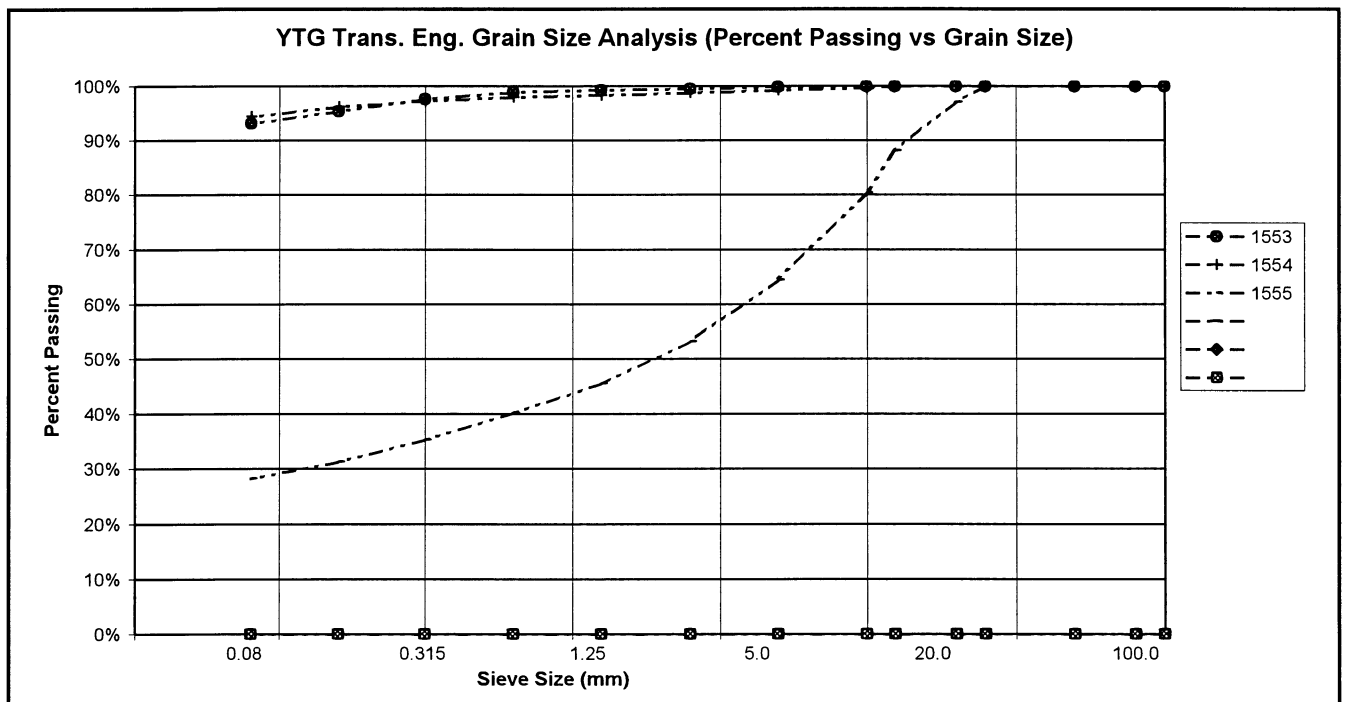


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1783+350 3M RT
 LOGGED BY: G.C.

HOLE No.: 629-1693

DATE COMP: 2001/11/15

FIELD NO:	1553	1554	1555		
LAB NO:	2442	2443	2444		
DEPTH:	0.5-1.0	1.5-2.0	2.5-3.0		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	100%	100%		
20.0	100%	100%	97%		
12.5	100%	100%	88%		
10.0	100%	100%	80%		
5.0	100%	99%	64%		
2.5	100%	99%	53%		
1.25	99%	98%	46%		
0.630	99%	98%	40%		
0.315	98%	97%	35%		
0.160	95%	96%	31%		
0.080	93%	95%	28%		
M.C.(%):	82%	30%	12%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	0	1	36		
% SAND:	7	5	36		
% FINES:	93	95	28		
CLASSIFICATION	SILT (ML)	SILT (ML)	SILTY SAND WITH GRAVEL (SM)		

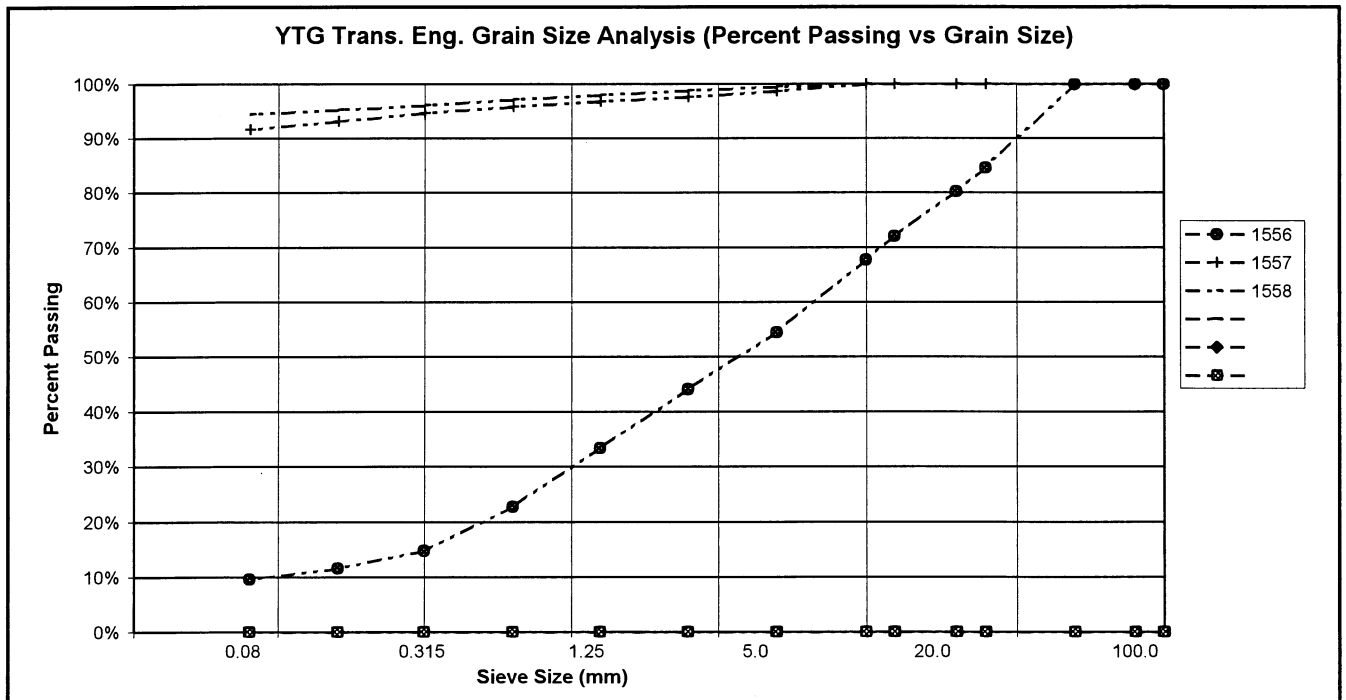


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1783+450 3M RT
 LOGGED BY: G.C.

HOLE No.: 629-1694

DATE COMP: 2001/11/15

FIELD NO:	1556	1557	1558		
LAB NO:	2445	2446	2447		
DEPTH:	0.4-0.8	1.5-2.0	2.5-3.0		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	85%	100%	100%		
20.0	80%	100%	100%		
12.5	72%	100%	100%		
10.0	68%	100%	100%		
5.0	54%	99%	100%		
2.5	44%	98%	99%		
1.25	33%	97%	98%		
0.630	23%	96%	97%		
0.315	15%	95%	96%		
0.160	12%	93%	95%		
0.080	10%	92%	94%		
M.C.(%)	3%	24%	21%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0		
% GRAVEL:	46	1	0		
% SAND:	45	7	5		
% FINES:	10	92	94		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILT (ML)	SILT (ML)		

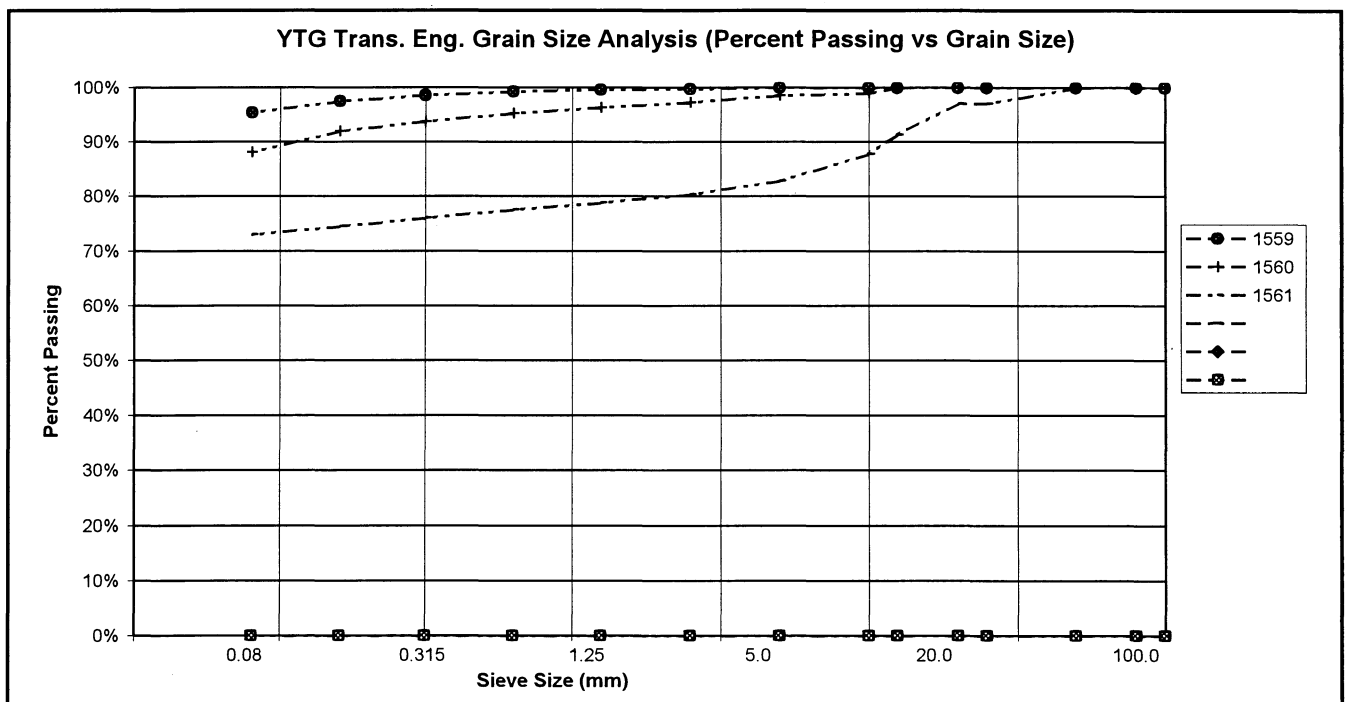


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 AVH
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1783+550 3M LT
 LOGGED BY: G.C.

HOLE No.: 629-1695

DATE COMP: 2001/11/15

FIELD NO:	1559	1560	1561		
LAB NO:	2448	2449	2450		
DEPTH:	0.6-1.0	1.5-2.0	2.5-3.0		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	100%	97%		
20.0	100%	100%	97%		
12.5	100%	100%	91%		
10.0	100%	99%	88%		
5.0	100%	99%	83%		
2.5	100%	97%	80%		
1.25	100%	96%	79%		
0.630	99%	95%	78%		
0.315	99%	94%	76%		
0.160	98%	92%	75%		
0.080	95%	88%	73%		
M.C.(%)	120%	82%	25%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0		
% GRAVEL:	0	1	17		
% SAND:	5	10	10		
% FINES:	95	88	73		
CLASSIFICATION	SILT (ML)	SILT (ML)	SILT WITH GRAVEL (ML)		

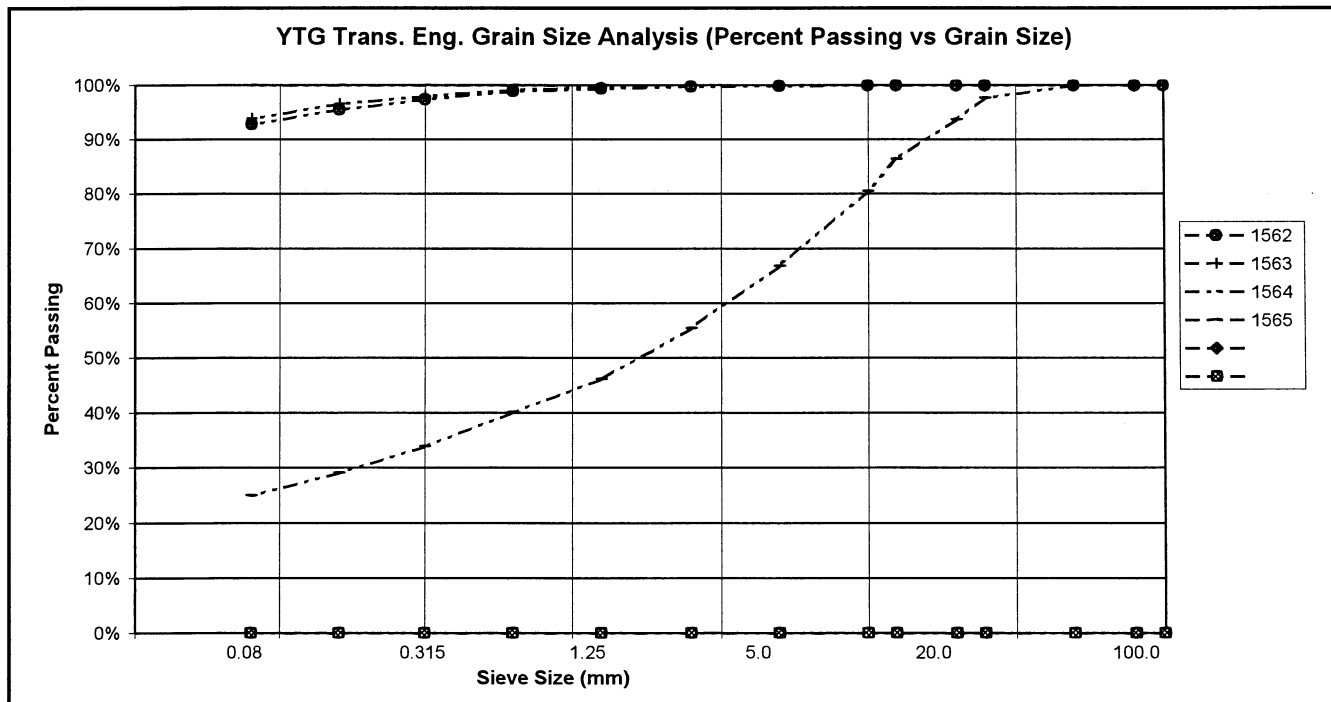


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1783+625 3M LT
 LOGGED BY: G.C.

HOLE No.: 629-1696

DATE COMP: 2001/11/15

FIELD NO:	1562	1563	1564	1565		
LAB NO:	2451	2452	LOST	2454		
DEPTH:	0.5-1.0	1.5-2.0	2.5-3.0	3.5-4.0		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	100%	98%		
20.0	100%	100%	100%	94%		
12.5	100%	100%	100%	86%		
10.0	100%	100%	100%	81%		
5.0	100%	100%	100%	67%		
2.5	100%	100%	100%	55%		
1.25	99%	100%	100%	46%		
0.630	99%	99%	100%	40%		
0.315	97%	98%	100%	34%		
0.160	96%	97%	100%	29%		
0.080	93%	94%	100%	25%		
M.C.(%)	128%	76%	17%	14%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0	0.0		
% GRAVEL:	0	0	0	33		
% SAND:	7	6	0	42		
% FINES:	93	94	100	25		
CLASSIFICATION	SILT (ML)	SILT (ML)	SILT (ML) LOST	SILTY SAND WITH GRAVEL (SM)		

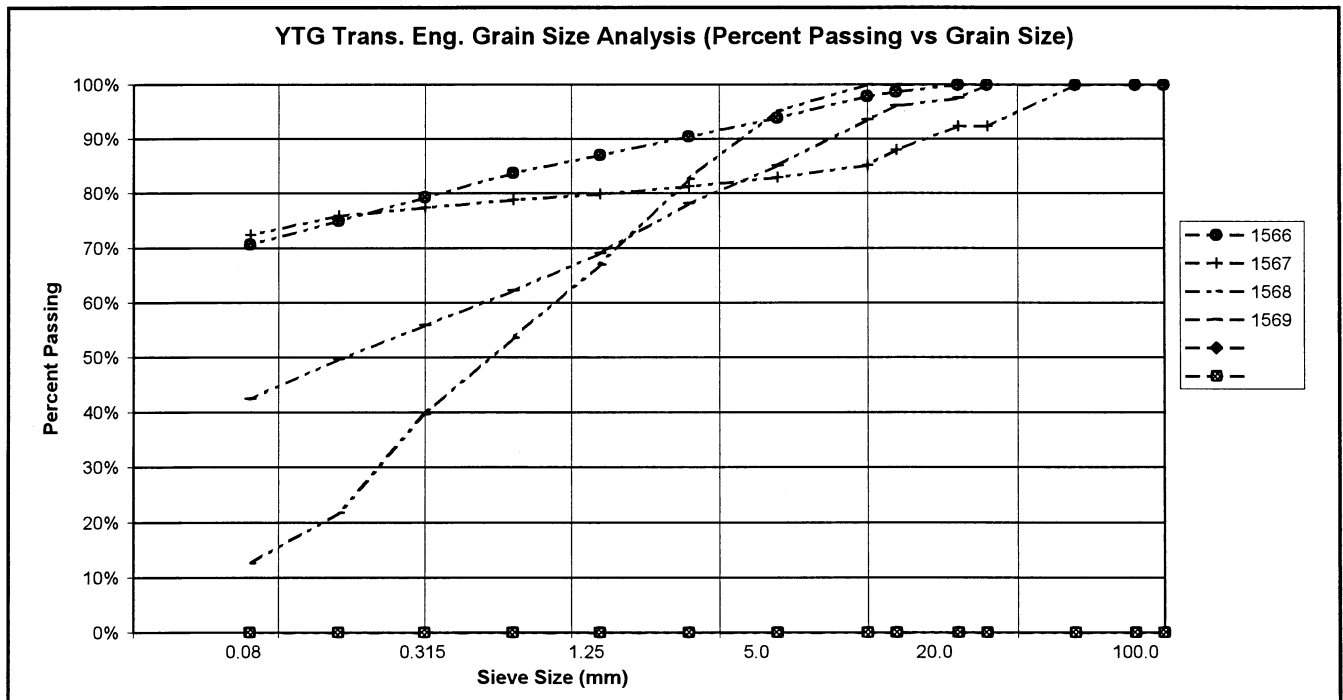


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1783+625 20M LT
 LOGGED BY: G.C.

HOLE No.: 629-1697

DATE COMP: 2001/11/15

FIELD NO:	1566	1567	1568	1569		
LAB NO:	2455	2456	2457	2458		
DEPTH:	0.5-1.0	1.5-2.0	2.5-3.0	4.0-6.0		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	92%	100%	100%		
20.0	100%	92%	100%	97%		
12.5	99%	88%	100%	96%		
10.0	98%	85%	100%	94%		
5.0	94%	83%	95%	85%		
2.5	91%	81%	83%	78%		
1.25	87%	80%	67%	69%		
0.630	84%	79%	53%	62%		
0.315	79%	77%	40%	56%		
0.160	75%	76%	22%	50%		
0.080	71%	72%	13%	43%		
M.C.(%)	21%	58%	13%	25%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	6	17	5	15		
% SAND:	23	11	83	43		
% FINES:	71	72	13	43		
CLASSIFICATION	SILT WITH SAND (ML)	SILT WITH GRAVEL (ML)	SILTY SAND (SM)	SILTY SAND (SM)		



PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1783+625 20M RT
 LOGGED BY: G.C.

HOLE No.: 629-1698

DATE COMP: 2001/11/15

FIELD NO:	1570	1571			
LAB NO:	2459	2460			
DEPTH:	0.5-1.0	1.5-2.0			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	93%			
20.0	100%	90%			
12.5	100%	76%			
10.0	100%	69%			
5.0	98%	53%			
2.5	98%	43%			
1.25	100%	36%			
0.630	99%	32%			
0.315	99%	28%			
0.160	98%	23%			
0.080	96%	20%			
M.C.(%):	71%	16%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	2	47			
% SAND:	2	33			
% FINES:	96	20			
CLASSIFICATION	SILT (ML)	SILTY GRAVEL WITH SAND (GM)			

