GEOTECHNICAL INVESTIGATIONS

Highway Construction
Km 1723.2 to 1734.6 Alaska Highway #1
Yukon, 2003-2004
Volume 2 of 3

Yukon
Infrastructure

Transportation Engineering Branch
Geotechnical Services

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ORIGINAL - Do Not Remove From File

Highway Construction
Km 1723.2 to 1734.6
Alaska Highway #1
Yukon 2003-2004
Volume 2 of 3

This Data Package prepared for project viewing:

January, 2003

Transportation Engineering Branch
Geotechnical Services
461 Range Road
Whitehorse, Yukon

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Volume 1 of 3

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 1723+140 and increasing to Km 1734+776.

TEST HOLES 343 to 379	shown with prefix 612-
TEST HOLES 380 to 384	shown with prefix 613-
TEST HOLES 385 to 409	shown with prefix 615-
TEST HOLES 410 to 434	shown with prefix 616-
TEST HOLES 435 to 459	shown with prefix 617-
TEST HOLES 460 to 484	shown with prefix 618-
TEST HOLES 485 to 500	shown with prefix 619-

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.

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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 612-343 and increasing to 619-500.

TEST HOLES 343 to 379	shown with prefix 612-
TEST HOLES 380 to 384	shown with prefix 613-
TEST HOLES 385 to 409	shown with prefix 615-
TEST HOLES 410 to 434	shown with prefix 616-
TEST HOLES 435 to 459	shown with prefix 617-
TEST HOLES 460 to 484	shown with prefix 618-
TEST HOLES 485 to 500	shown with prefix 619-

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 1730.2 LHS (Nines Creek) ALASKA HIGHWAY

A location plan, photographs, and subsurface exploration and testing report sheets are provided.

Auger Testing

2001	TEST HOLES 1926 to 1928	shown with prefix 623-
2001	TEST HOLES 1938 to 1941	shown with prefix 624-

Backhoe Testing

2002	TEST PITS 2460 to 2520	shown with prefix 638-

GRANULAR SOURCE Km 1732.0 RHS (Mines Creek) ALASKA HIGHWAY

A production history, location plan, photographs, and subsurface exploration and testing report sheets are provided.

History of Aggregate Production

1986	20 mm B.S.T. Aggregate
1994	20 mm B.S.T. Aggregate
1994	20 mm Granular "A" Base Course
2000	10 mm Crushed Sanding Aggregate

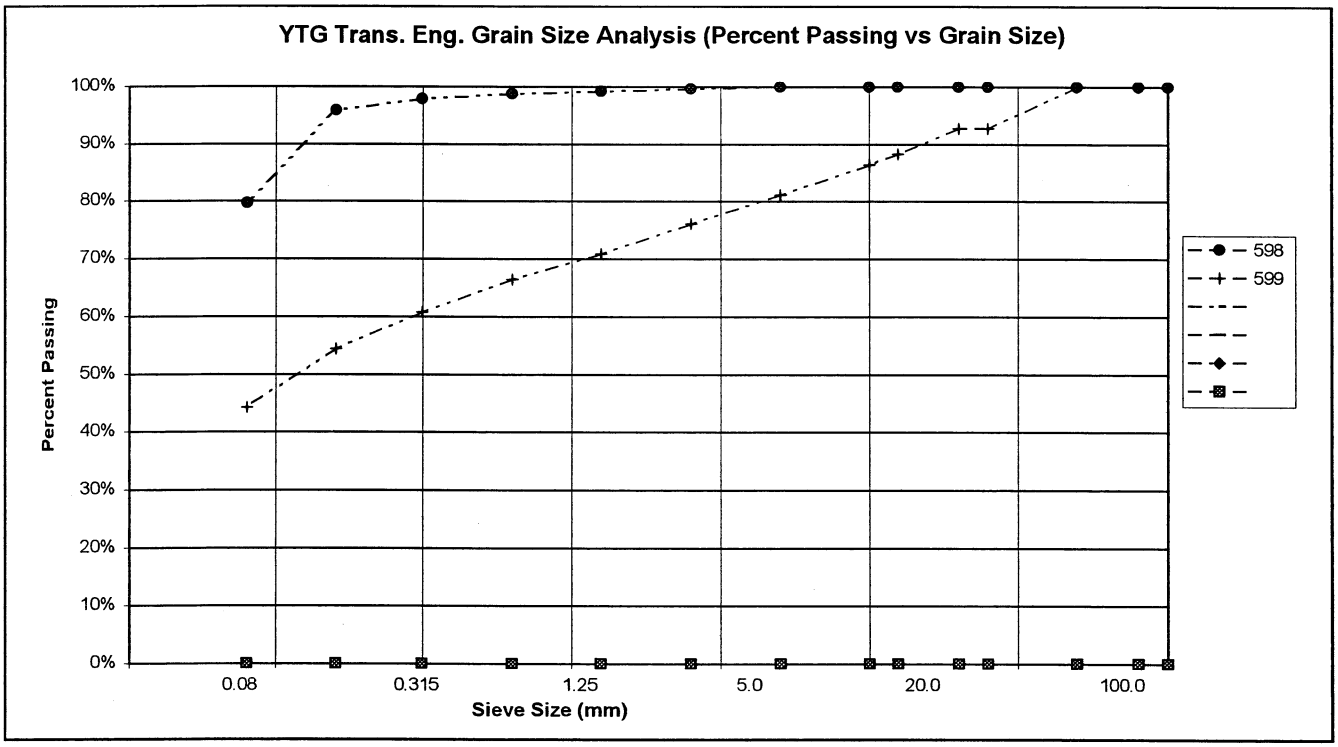
Backhoe Testing

2002	TEST PITS 2451 to 2459	shown with prefix 637-

CENTRELINE TESTING
1723+140 to 1734+776
ALASKA HIGHWAY

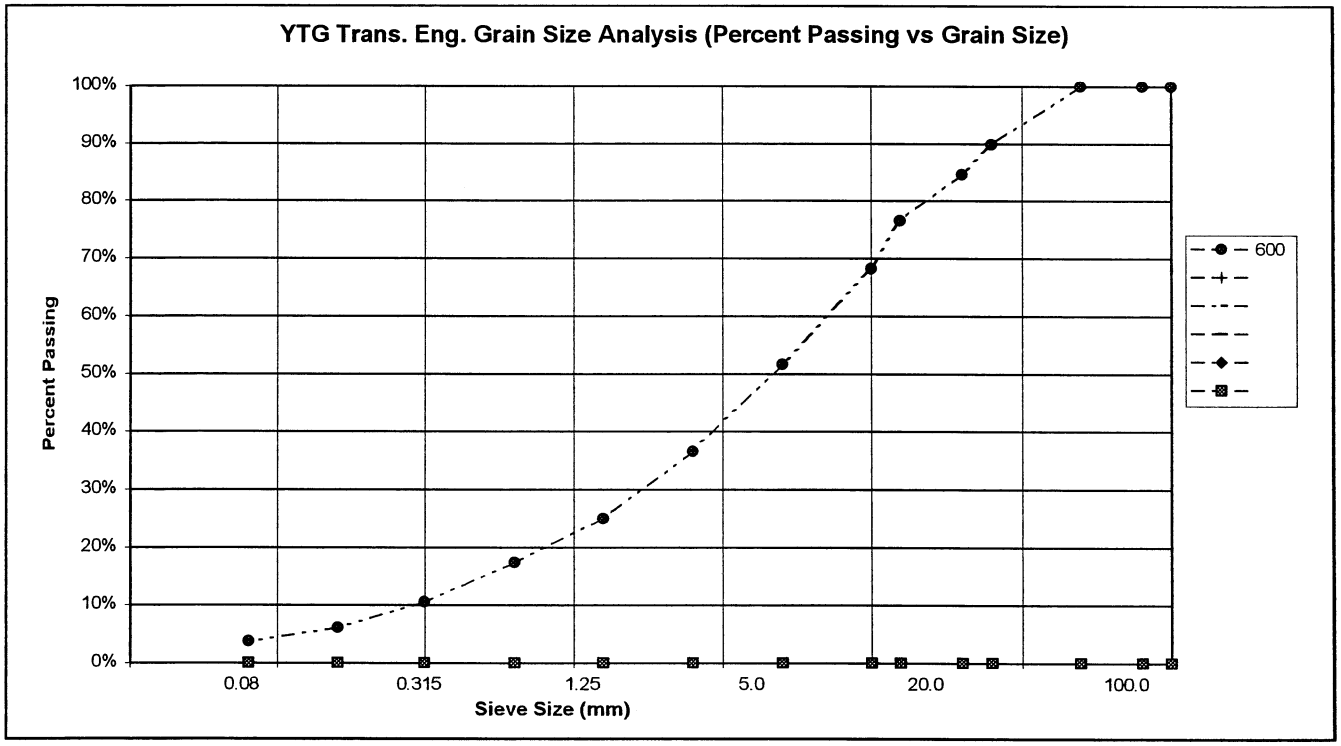
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 612-343
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1734+781 BK; 1738+919 AH 32m LT		
LOGGED BY:	B.B.		DATE COMP: 2001/08/03

FIELD NO:	598	599				
LAB NO:	1345	1346				
DEPTH:	1.5-1.7	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%	93%				
20.0	100%	93%				
12.5	100%	88%				
10.0	100%	86%				
5.0	100%	81%				
2.5	100%	76%				
1.25	99%	71%				
0.630	99%	66%				
0.315	98%	61%				
0.160	96%	54%				
0.080	80%	44%				
M.C.(%):	28%	14%				
LIQUID LIMIT:	0.0	0.0				
PLASTIC LIMIT:	0.0	0.0				
PLASTIC INDEX.:	0.0	0.0				
% GRAVEL:	0	19				
% SAND:	20	37				
% FINES:	80	44				
CLASSIFICATION	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)				



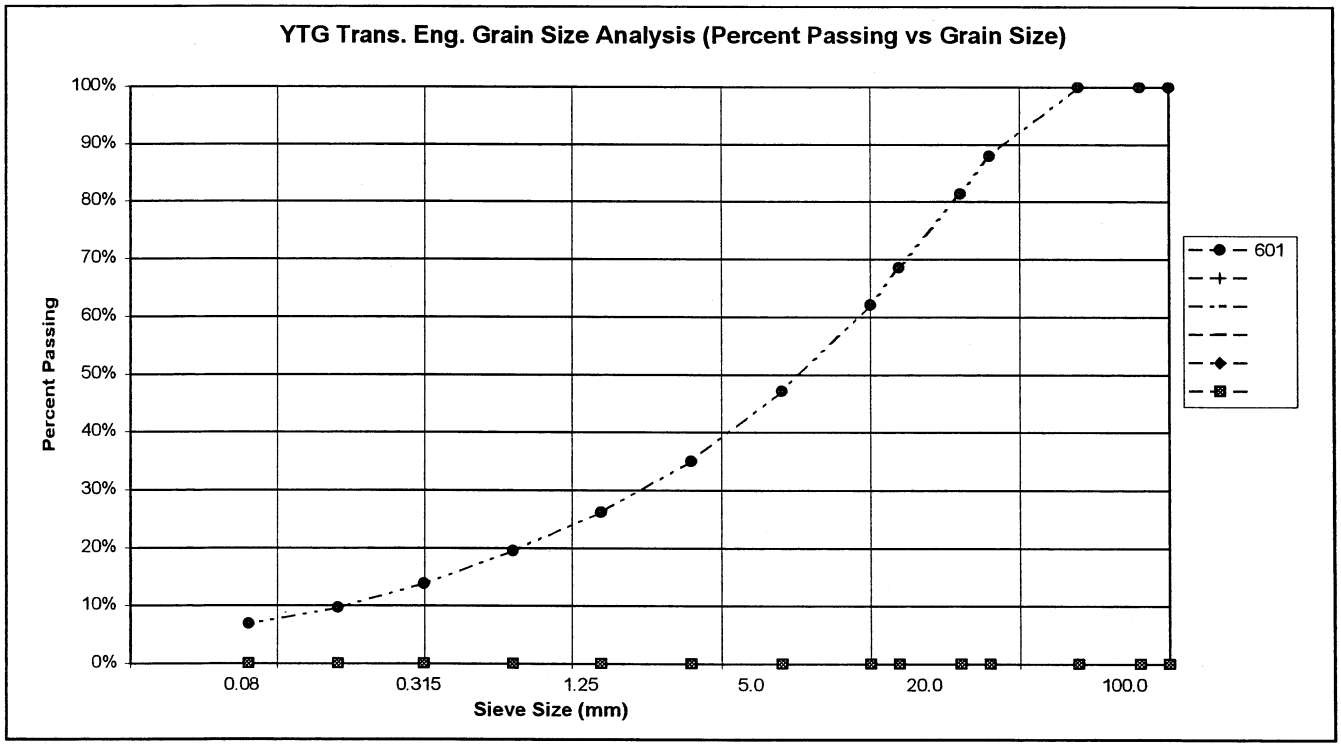
PROJECT NUMBER:	092-202101-0361-1				HOLE No.: 612-344	
CLIENT:	ENGINEERING CAPITAL					
PROJECT NAME:	SHAKWAK SEG 11					
PROJECT LOCATION:	Km 1729.6-1787 A/H					
DRILL UNIT:	MOBILE B40 L					
HOLE LOCATION:	1734+666 BK; 1738+804 AH 82m LT					
LOGGED BY:	B.B.				DATE COMP: 2001/08/03	

FIELD NO:	600					
LAB NO:	1347					
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	90%					
20.0	85%					
12.5	77%					
10.0	68%					
5.0	52%					
2.5	37%					
1.25	25%					
0.630	17%					
0.315	11%					
0.160	6%					
0.080	4%					
M.C.(%):	7%					
LIQUID LIMIT:	0.0					
PLASTIC LIMIT:	0.0					
PLASTIC INDEX.:	0.0					
% GRAVEL:	48					
% SAND:	48					
% FINES:	4					
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)					



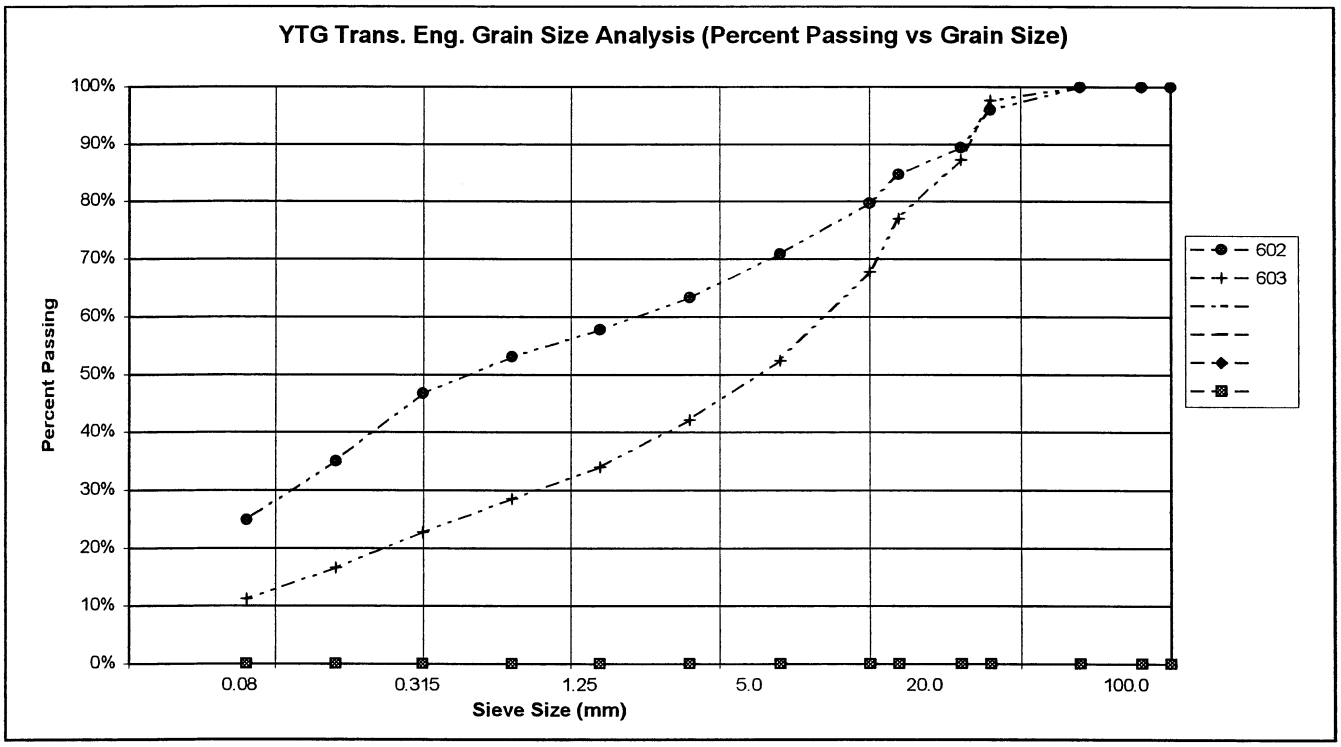
PROJECT NUMBER:	092-202101-0361-1				HOLE No.: 612-345	
CLIENT:	ENGINEERING CAPITAL					
PROJECT NAME:	SHAKWAK SEG 11					
PROJECT LOCATION:	Km 1729.6-1787 A/H					
DRILL UNIT:	MOBILE B40 L					
HOLE LOCATION:	1734+603 BK; 1738+741 AH 21m LT					
LOGGED BY:	B.B.				DATE COMP: 2001/08/03	

FIELD NO:	601					
LAB NO:	1348					
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	88%					
20.0	81%					
12.5	69%					
10.0	62%					
5.0	47%					
2.5	35%					
1.25	26%					
0.630	20%					
0.315	14%					
0.160	10%					
0.080	7%					
M.C.(%):	2%					
LIQUID LIMIT:	0.0					
PLASTIC LIMIT:	0.0					
PLASTIC INDEX.:	0.0					
% GRAVEL:	53					
% SAND:	40					
% FINES:	7					
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)					



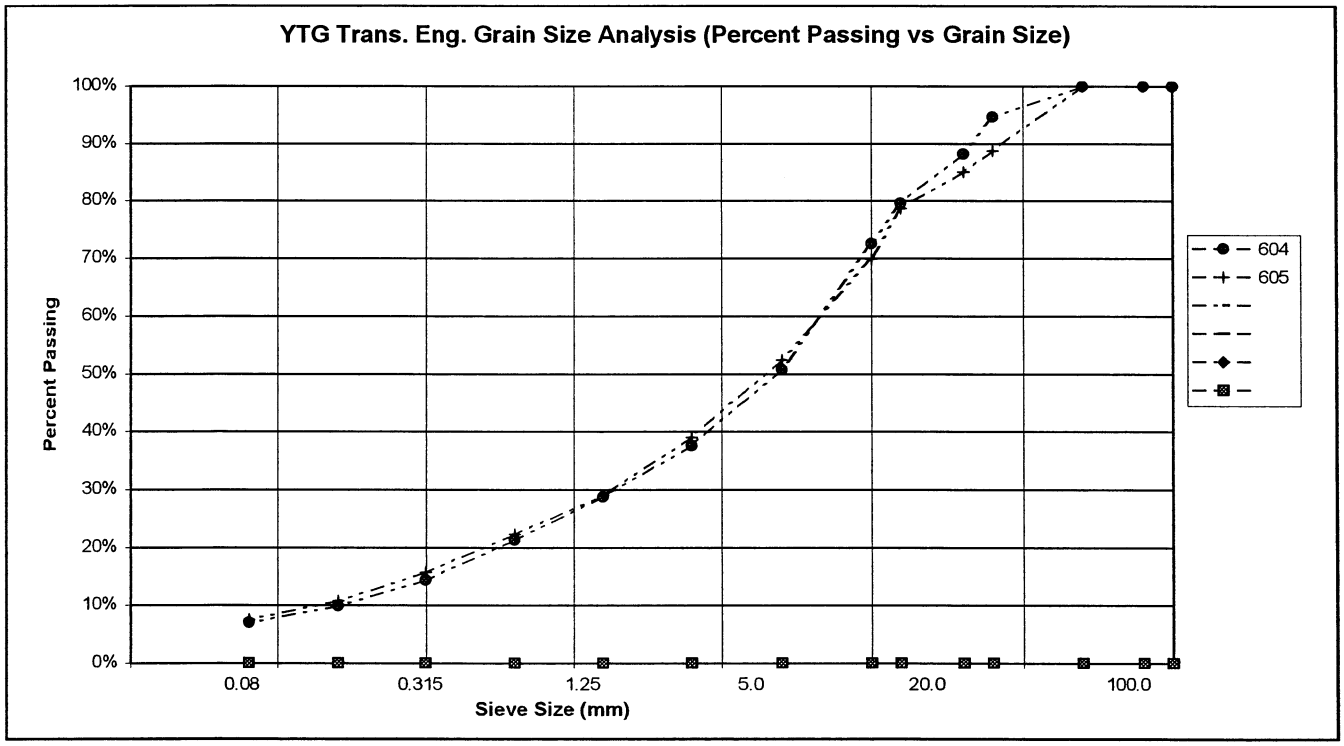
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 612-346
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1734+404 BK; 1738+542 AH 13m LT		
LOGGED BY:	B.B.		DATE COMP: 2001/08/03

FIELD NO:	602	603				
LAB NO:	1349	1350				
DEPTH:	1.2-1.4	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	96%	98%				
20.0	89%	87%				
12.5	85%	77%				
10.0	80%	68%				
5.0	71%	52%				
2.5	63%	42%				
1.25	58%	34%				
0.630	53%	29%				
0.315	47%	23%				
0.160	35%	17%				
0.080	25%	11%				
M.C.(%):	13%	4%				
LIQUID LIMIT:	0.0	0.0				
PLASTIC LIMIT:	0.0	0.0				
PLASTIC INDEX.:	0.0	0.0				
% GRAVEL:	29	48				
% SAND:	46	41				
% FINES:	25	11				
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)				



PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 612-347
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1734+303 BK; 1738+441 AH C.L.		
LOGGED BY:	B.B.		DATE COMP: 2001/08/03

FIELD NO:	604	605				
LAB NO:	1351	1352				
DEPTH:	1.4-1.6	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	95%	89%				
20.0	88%	85%				
12.5	80%	79%				
10.0	73%	70%				
5.0	51%	52%				
2.5	38%	39%				
1.25	29%	29%				
0.630	21%	22%				
0.315	14%	16%				
0.160	10%	11%				
0.080	7%	8%				
M.C.(%):	3%	2%				
LIQUID LIMIT:	0.0	0.0				
PLASTIC LIMIT:	0.0	0.0				
PLASTIC INDEX.:	0.0	0.0				
% GRAVEL:	49	48				
% SAND:	44	45				
% FINES:	7	8				
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)				

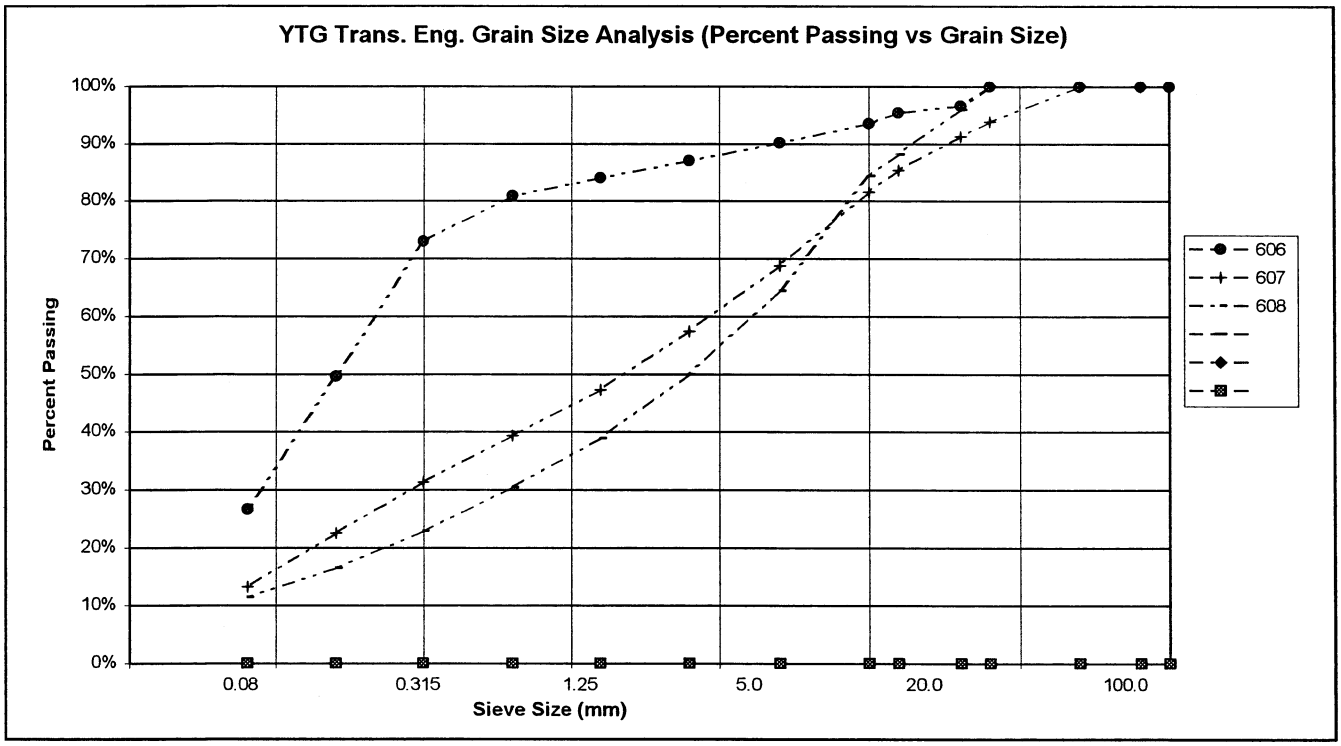


PROJECT NUMBER: 092-202101-0361-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 11
PROJECT LOCATION: Km 1729.6-1787 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: 1734+306 BK; 1738+444 AH 25m LT
LOGGED BY: B.B.

HOLE No.: 612-348

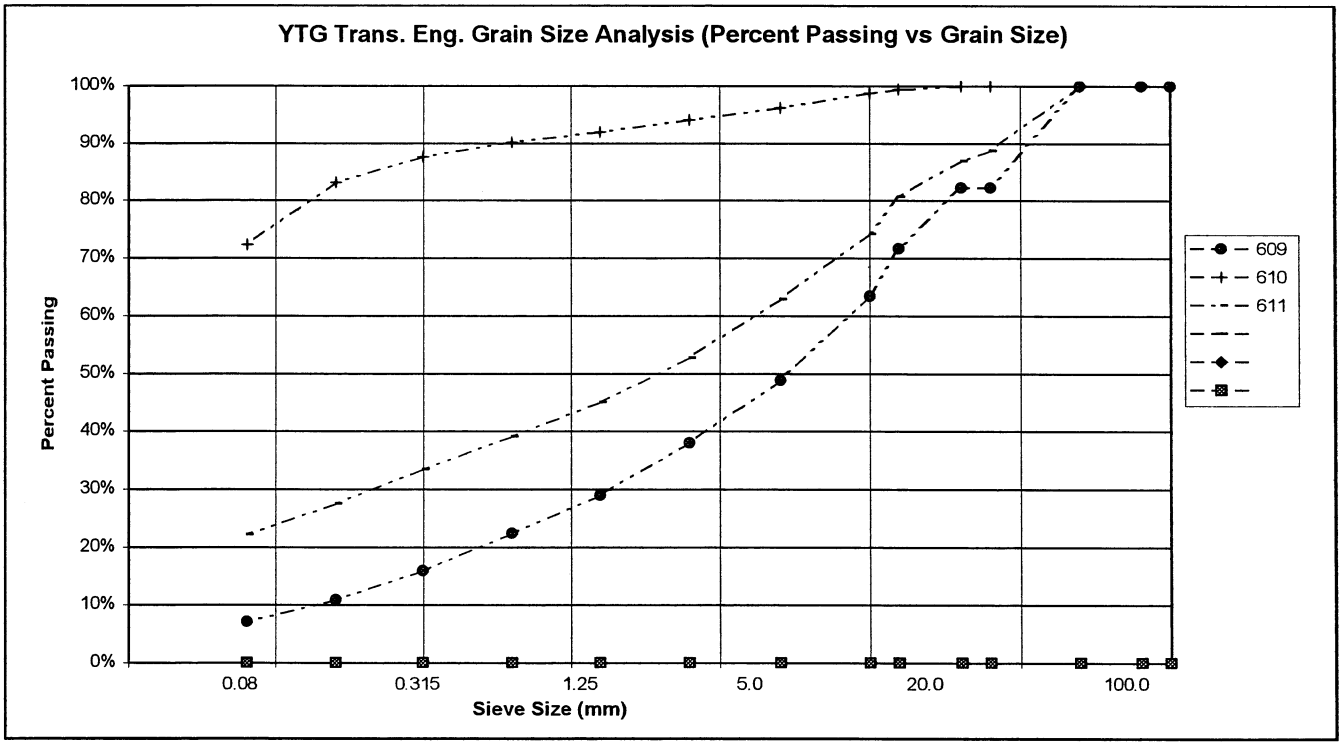
DATE COMP: 2001/08/03

FIELD NO:	606	607	608			
LAB NO:	1353	1354	1355			
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	100%	94%	100%			
20.0	97%	91%	96%			
12.5	95%	85%	88%			
10.0	94%	82%	84%			
5.0	90%	69%	64%			
2.5	87%	57%	50%			
1.25	84%	47%	39%			
0.630	81%	39%	30%			
0.315	73%	31%	23%			
0.160	50%	23%	16%			
0.080	27%	13%	11%			
M.C.(%):	3%	2%	2%			
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:	10	31	36			
% SAND:	64	56	53			
% FINES:	27	13	11			
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)			



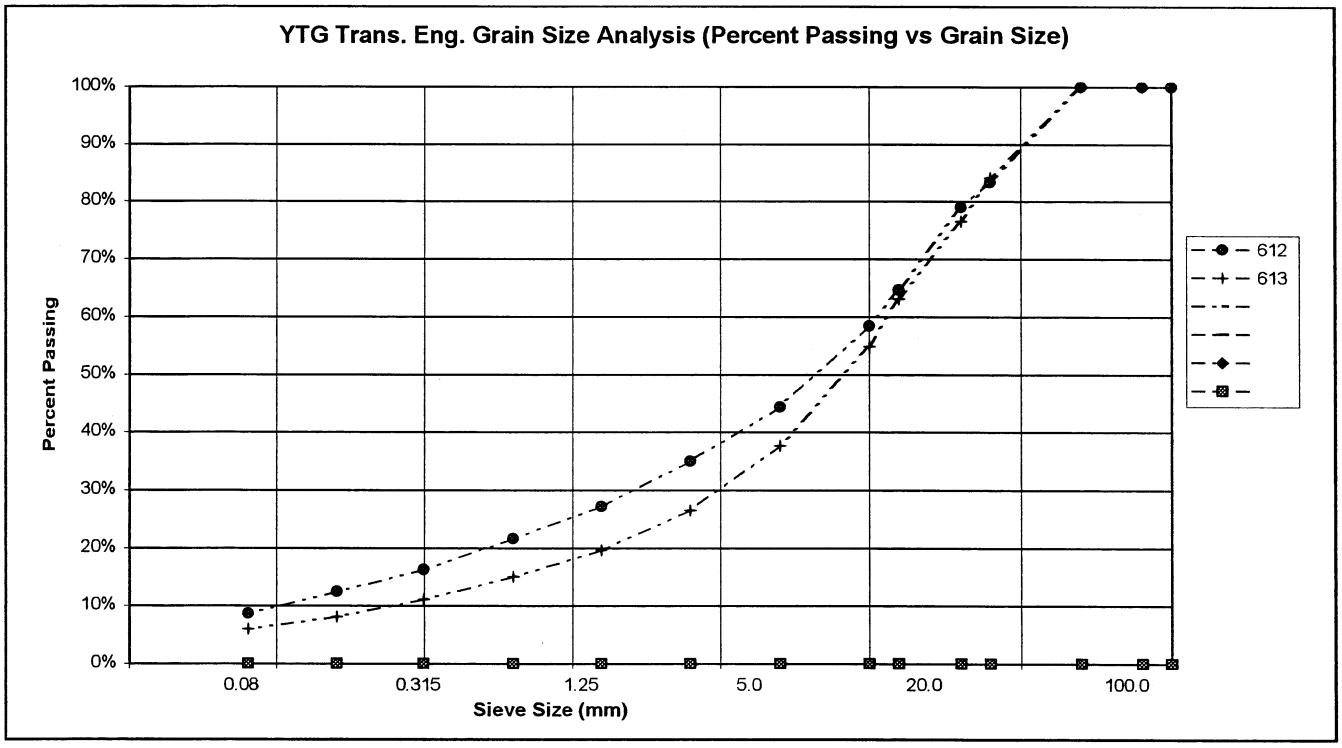
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 612-349
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1734+200 BK; 1738+338 AH 3m RT		
LOGGED BY:	B.B.		DATE COMP: 2001/08/03

FIELD NO:	609	610	611			
LAB NO:	1356	1357	1358			
DEPTH:	1.3-1.5	2.9-3.1	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	82%	100%	89%			
20.0	82%	100%	87%			
12.5	72%	99%	81%			
10.0	63%	99%	74%			
5.0	49%	96%	63%			
2.5	38%	94%	53%			
1.25	29%	92%	45%			
0.630	22%	90%	39%			
0.315	16%	88%	33%			
0.160	11%	83%	28%			
0.080	7%	72%	22%			
M.C.(%):	4%	27%	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:	51	4	37			
% SAND:	42	24	41			
% FINES:	7	72	22			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)			



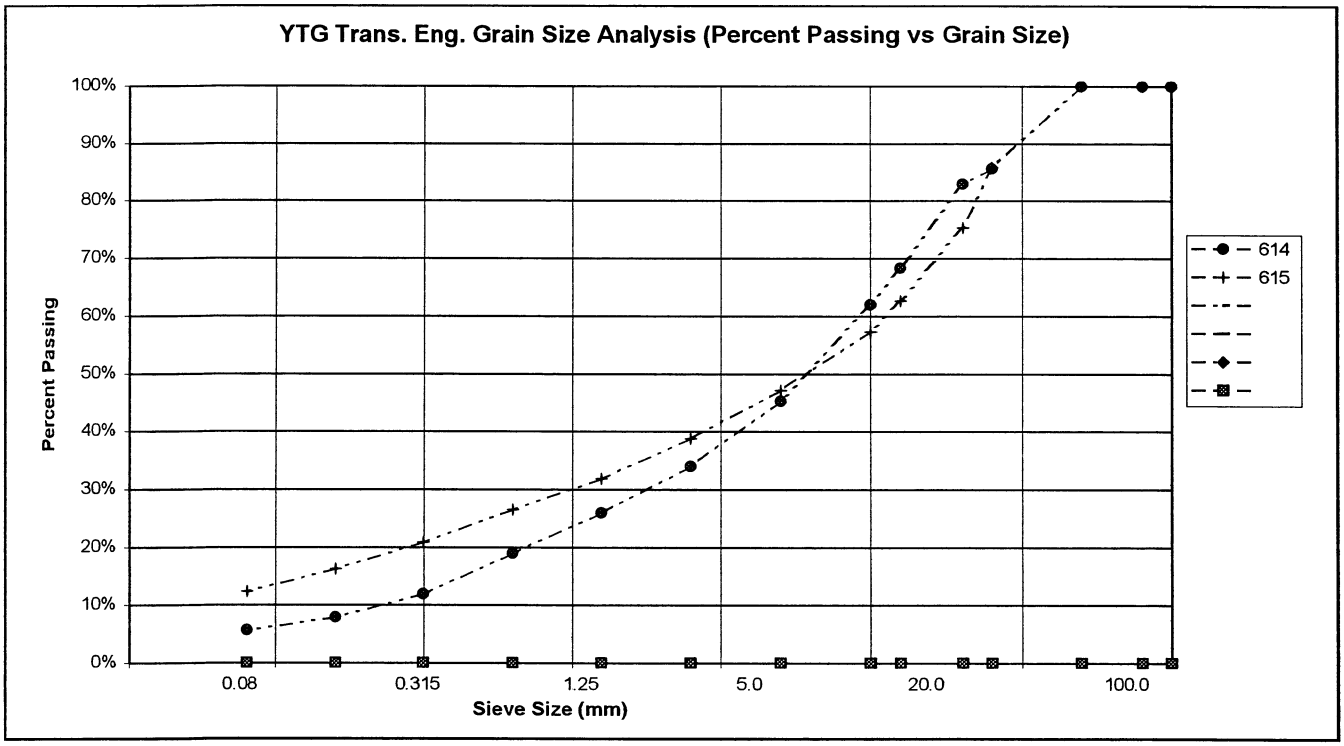
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 612-350
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1734+135 BK; 1738+273 AH 15m LT		
LOGGED BY:	B.B.		DATE COMP: 2001/08/03

FIELD NO:	612	613				
LAB NO:	1359	1360				
DEPTH:	1.2-1.4	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	83%	84%				
20.0	79%	77%				
12.5	65%	63%				
10.0	58%	55%				
5.0	44%	38%				
2.5	35%	27%				
1.25	27%	20%				
0.630	22%	15%				
0.315	16%	11%				
0.160	12%	8%				
0.080	9%	6%				
M.C.(%):	5%	2%				
LIQUID LIMIT:	0.0	0.0				
PLASTIC LIMIT:	0.0	0.0				
PLASTIC INDEX.:	0.0	0.0				
% GRAVEL:	56	62				
% SAND:	36	32				
% FINES:	9	6				
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)				



PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 612-351
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1734+135 BK; 1738+273 AH C.L.		
LOGGED BY:	B.B.		DATE COMP: 2001/08/03

FIELD NO:	614	615				
LAB NO:	1361	1362				
DEPTH:	1.4-1.6	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	86%	86%				
20.0	83%	75%				
12.5	68%	63%				
10.0	62%	57%				
5.0	45%	47%				
2.5	34%	39%				
1.25	26%	32%				
0.630	19%	27%				
0.315	12%	21%				
0.160	8%	16%				
0.080	6%	12%				
M.C.(%):	4%	5%				
LIQUID LIMIT:	0.0	0.0				
PLASTIC LIMIT:	0.0	0.0				
PLASTIC INDEX.:	0.0	0.0				
% GRAVEL:	55	53				
% SAND:	40	35				
% FINES:	6	12				
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY GRAVEL WITH SAND (GM)				

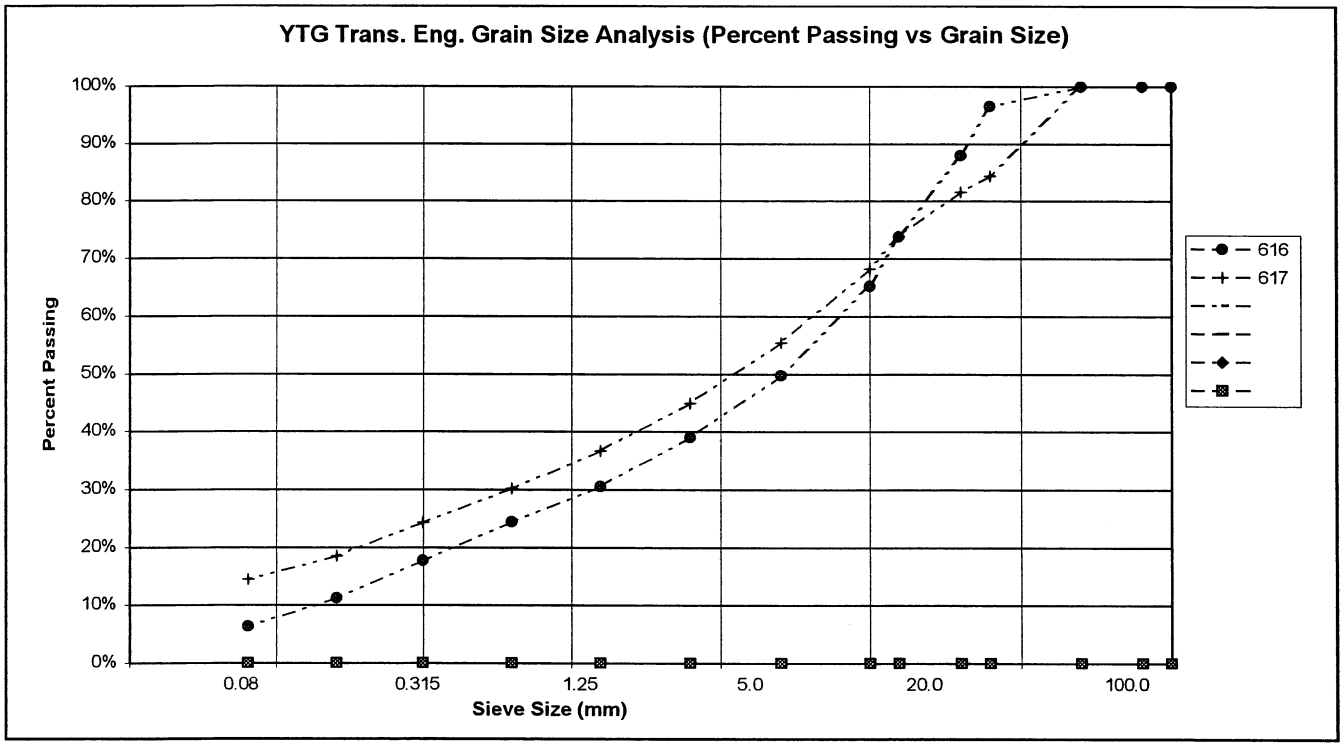


PROJECT NUMBER: 092-202101-0361-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 11
PROJECT LOCATION: Km 1729.6-1787 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: 1734+140 BK; 1738+278 AH 15m RT
LOGGED BY: B.B.

HOLE No.: 612-352

DATE COMP: 2001/08/03

FIELD NO:	616	617				
LAB NO:	1363	1364				
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	96%	84%				
20.0	88%	82%				
12.5	74%	74%				
10.0	65%	68%				
5.0	50%	55%				
2.5	39%	45%				
1.25	31%	37%				
0.630	24%	30%				
0.315	18%	24%				
0.160	11%	19%				
0.080	6%	14%				
M.C.(%):	5%	6%				
LIQUID LIMIT:	0.0	0.0				
PLASTIC LIMIT:	0.0	0.0				
PLASTIC INDEX.:	0.0	0.0				
% GRAVEL:	50	45				
% SAND:	43	41				
% FINES:	6	14				
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY GRAVEL WITH SAND (GM)				

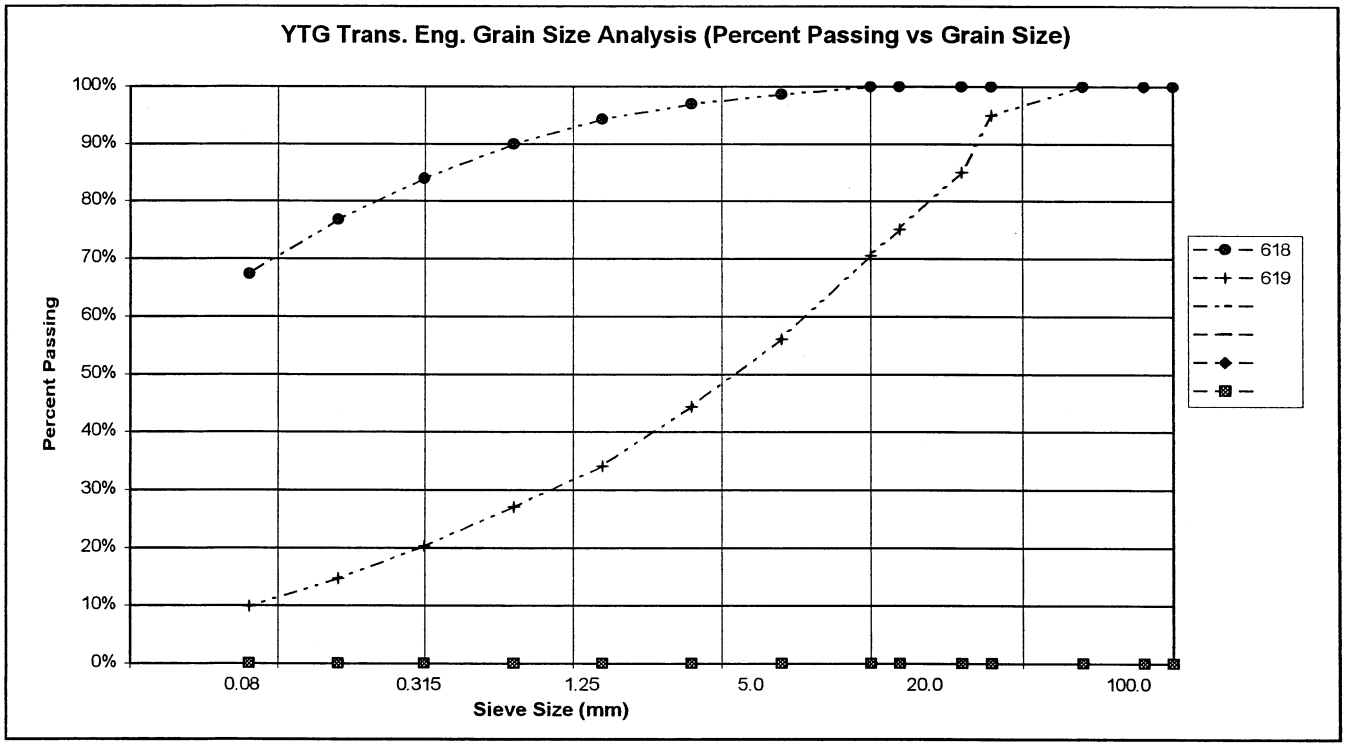


PROJECT NUMBER: 092-202101-0361-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 11
PROJECT LOCATION: Km 1729.6-1787 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: 1734+025 BK; 1738+163 AH 3m RT
LOGGED BY: B.B.

HOLE No.: 612-353

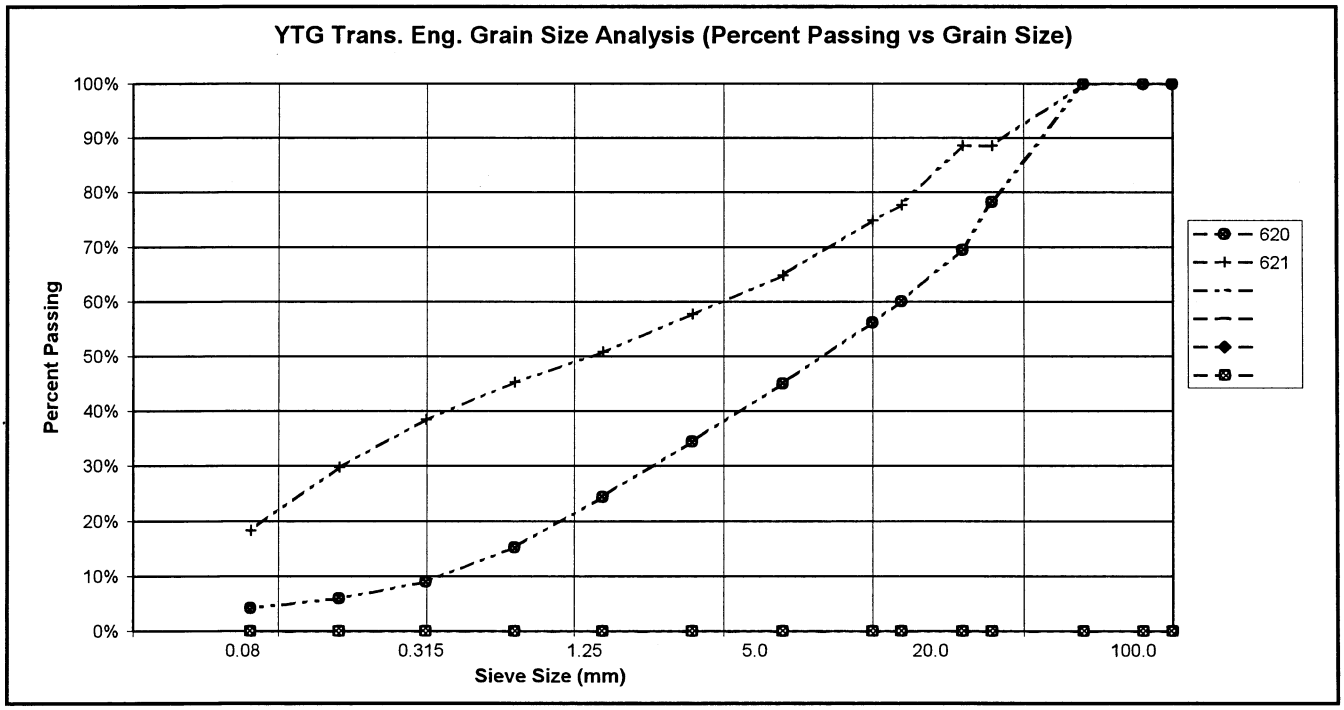
DATE COMP: 2001/08/03

FIELD NO:	618	619				
LAB NO:	1365	1366				
DEPTH:	1.3-1.5	2.9-3.1				
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%	95%				
20.0	100%	85%				
12.5	100%	75%				
10.0	100%	71%				
5.0	99%	56%				
2.5	97%	44%				
1.25	94%	34%				
0.630	90%	27%				
0.315	84%	20%				
0.160	77%	15%				
0.080	67%	10%				
M.C.(%):	30%	4%				
LIQUID LIMIT:	0.0	0.0				
PLASTIC LIMIT:	0.0	0.0				
PLASTIC INDEX.:	0.0	0.0				
% GRAVEL:	1	44				
% SAND:	31	46				
% FINES:	67	10				
CLASSIFICATION	SANDY SILT (ML)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)				



PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 612-354
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1733+880 15M LT		
LOGGED BY:	B.B.		DATE COMP: 2001/08/03

FIELD NO:	620	621				
LAB NO:	1367	1368				
DEPTH:	1.2-1.4	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	78%	89%				
20.0	70%	89%				
12.5	60%	78%				
10.0	56%	75%				
5.0	45%	65%				
2.5	35%	58%				
1.25	24%	51%				
0.630	15%	45%				
0.315	9%	39%				
0.160	6%	30%				
0.080	4%	18%				
M.C.(%):	4%	6%				
LIQUID LIMIT:	0.0	0.0				
PLASTIC LIMIT:	0.0	0.0				
PLASTIC INDEX.:	0.0	0.0				
% GRAVEL:	55	35				
% SAND:	41	46				
% FINES:	4	18				
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	SILTY SAND WITH GRAVEL (SM)				

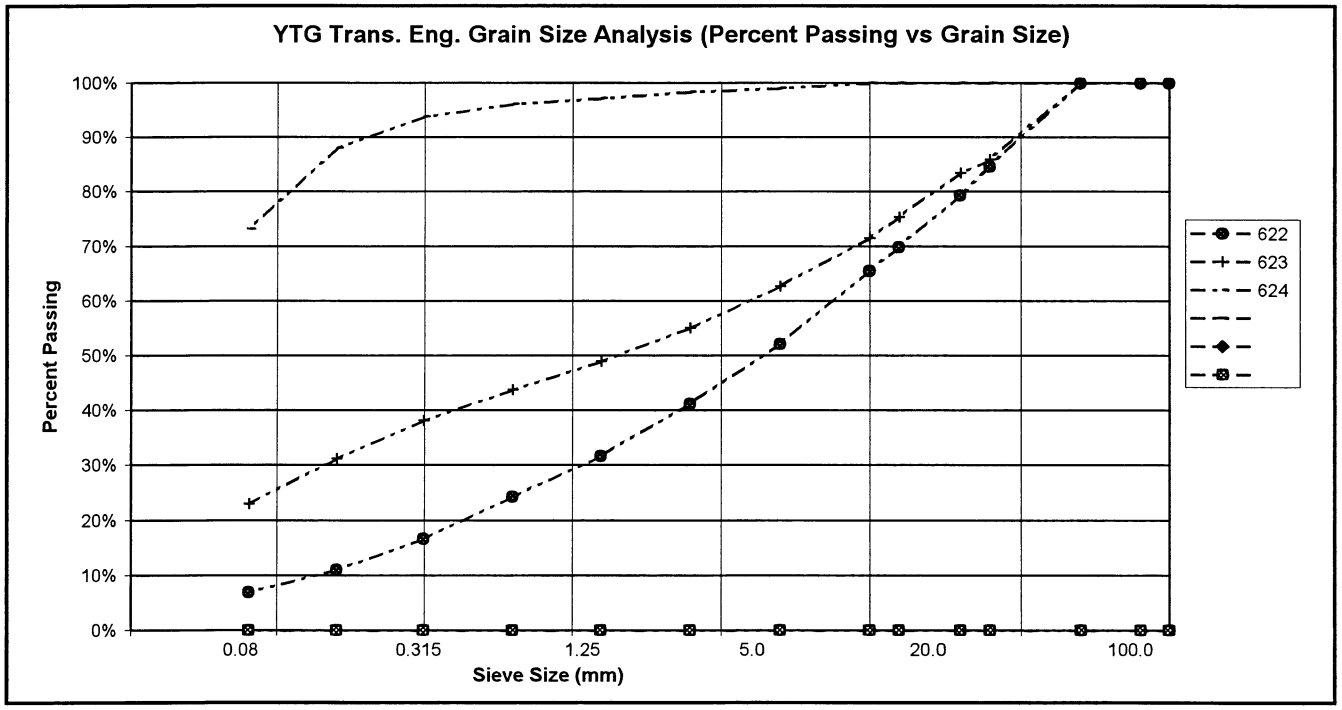


PROJECT NUMBER: 092-202101-0361-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 11
PROJECT LOCATION: Km 1729.6-1787 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: 1733+850 CENTRELINE
LOGGED BY: B.B.

HOLE No.: 612-355

DATE COMP: 2001/08/03

FIELD NO:	622	623	624			
LAB NO:	1369	1370	1371			
DEPTH:	1.0-1.2	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	85%	86%	100%			
20.0	79%	83%	100%			
12.5	70%	75%	100%			
10.0	65%	71%	100%			
5.0	52%	63%	99%			
2.5	41%	55%	98%			
1.25	32%	49%	97%			
0.630	24%	44%	96%			
0.315	17%	38%	94%			
0.160	11%	31%	88%			
0.080	7%	23%	73%			
M.C.(%):	5%	5%	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:	48	37	1			
% SAND:	45	40	26			
% FINES:	7	23	73			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY SAND WITH GRAVEL (SM)	SILT WITH SAND (ML)			

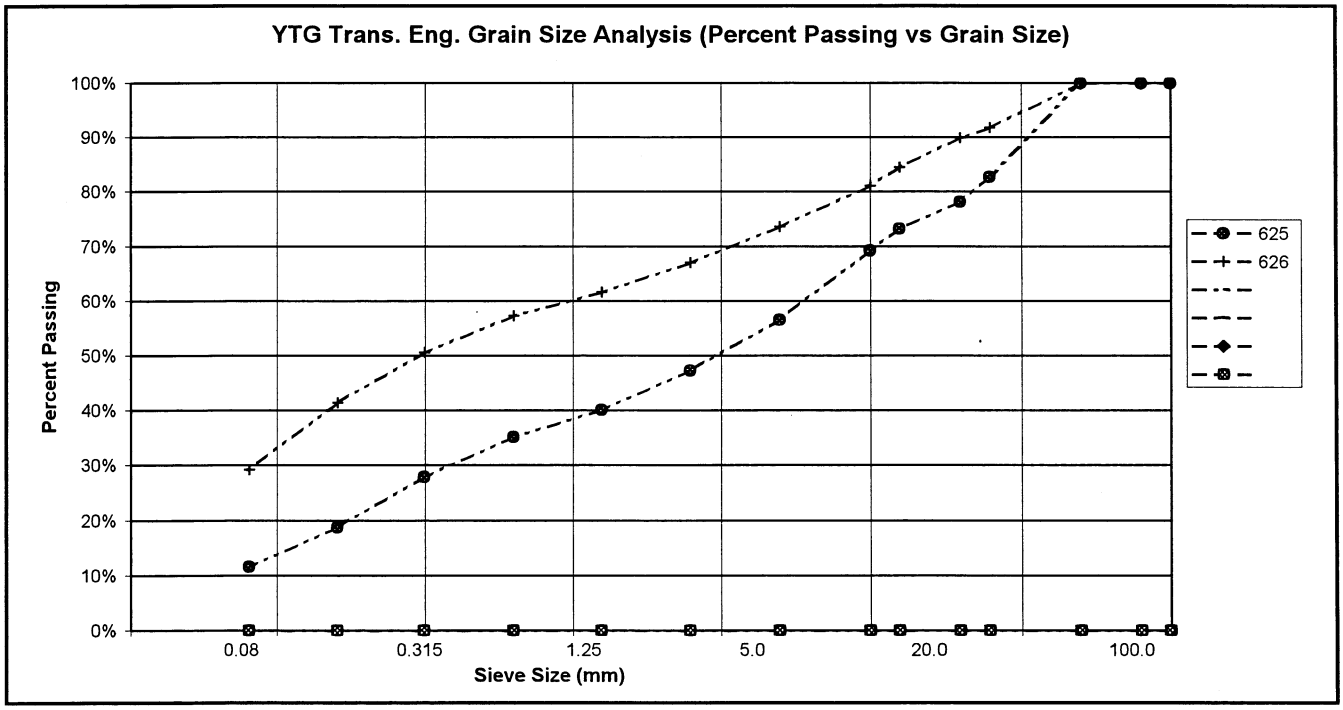


PROJECT NUMBER:	092-202101-0361-1
CLIENT:	ENGINEERING CAPITAL
PROJECT NAME:	SHAKWAK SEG 11
PROJECT LOCATION:	Km 1729.6-1787 A/H
DRILL UNIT:	MOBILE B40 L
HOLE LOCATION:	1733+880 15M RT
LOGGED BY:	B.B.

HOLE No.: 612-356

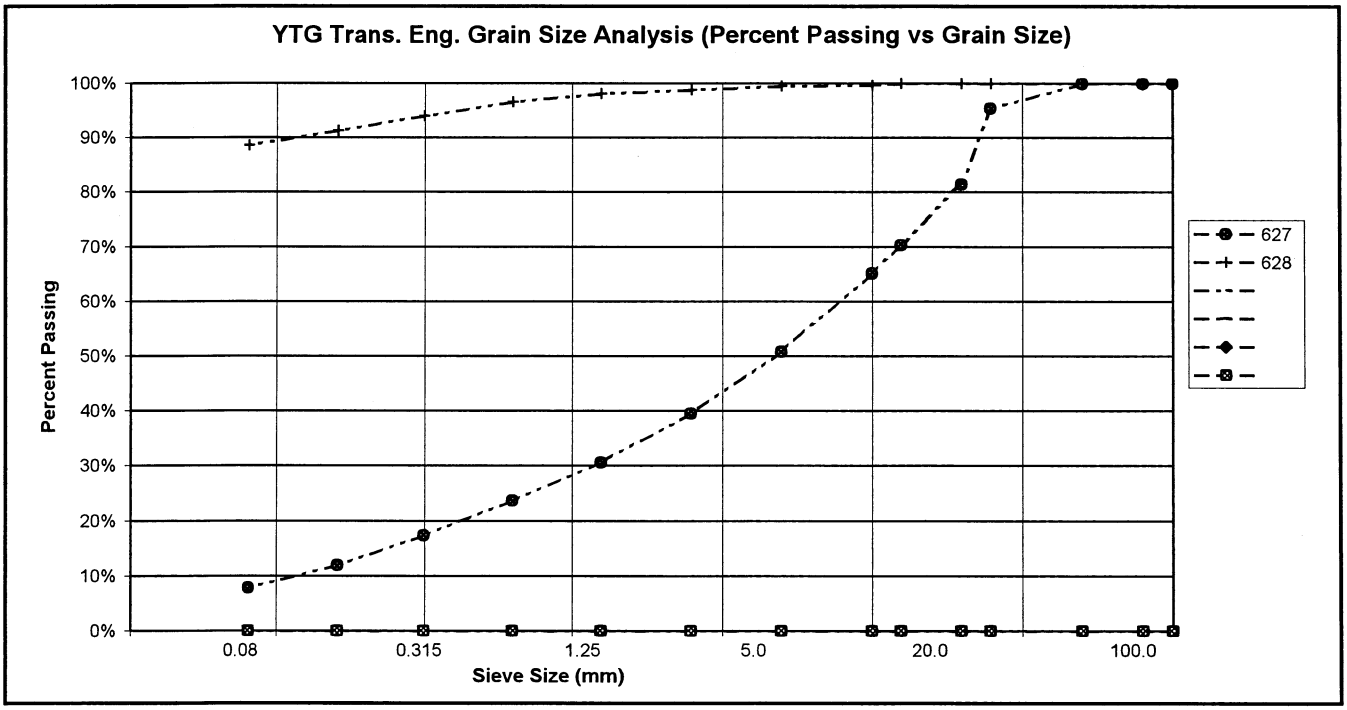
DATE COMP: 2001/08/03

FIELD NO:	625	626				
LAB NO:	1372	1373				
DEPTH:	1.4-1.6	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	83%	92%				
20.0	78%	90%				
12.5	73%	84%				
10.0	69%	81%				
5.0	57%	74%				
2.5	47%	67%				
1.25	40%	62%				
0.630	35%	57%				
0.315	28%	51%				
0.160	19%	41%				
0.080	12%	29%				
M.C.(%):	4%	8%				
LIQUID LIMIT:	0.0	0.0				
PLASTIC LIMIT:	0.0	0.0				
PLASTIC INDEX.:	0.0	0.0				
% GRAVEL:	43	26				
% SAND:	45	44				
% FINES:	12	29				
CLASSIFICATION	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	SILTY SAND WITH GRAVEL (SM)				



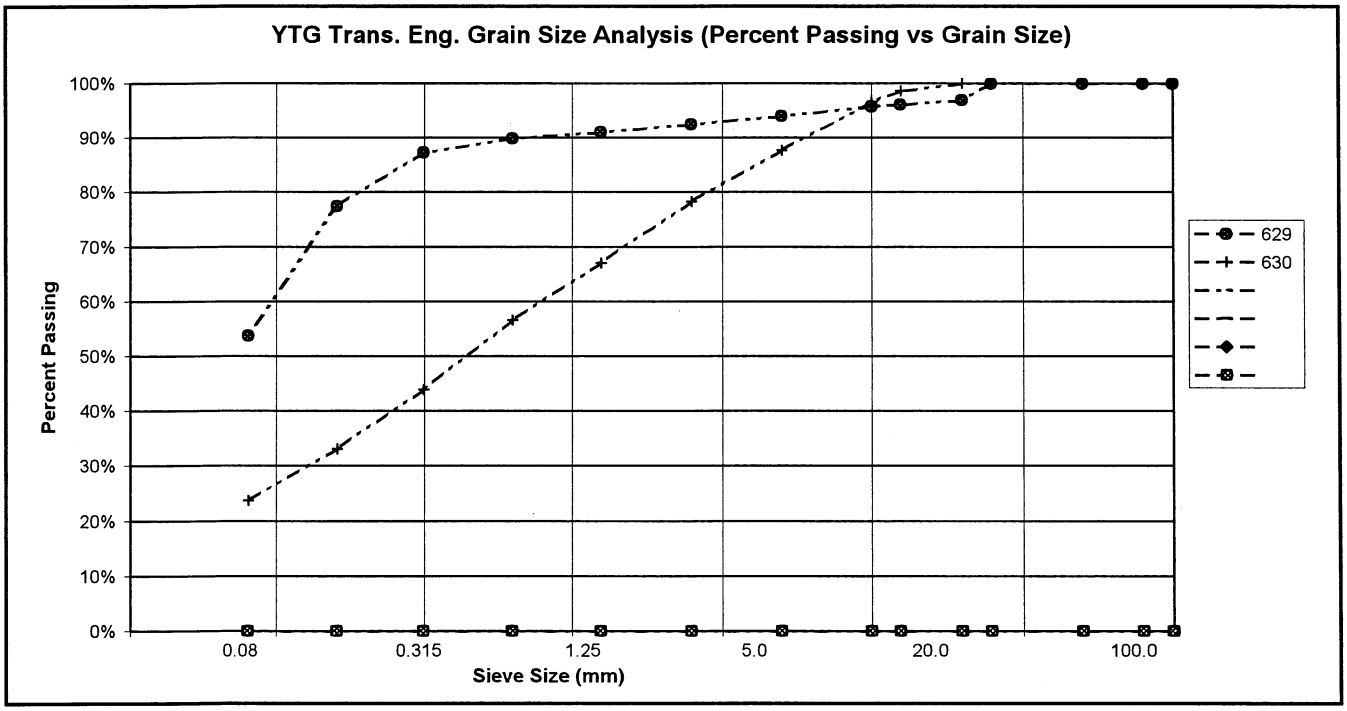
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 612-357
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1733+775 2m lt		
LOGGED BY:	B.B.		DATE COMP: 2001/08/03

FIELD NO:	627	628				
LAB NO:	1374	1375				
DEPTH:	1.4-1.6	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	95%	100%				
20.0	82%	100%				
12.5	70%	100%				
10.0	65%	100%				
5.0	51%	100%				
2.5	40%	99%				
1.25	31%	98%				
0.630	24%	97%				
0.315	17%	94%				
0.160	12%	91%				
0.080	8%	89%				
M.C.(%):	4%	33%				
LIQUID LIMIT:	0.0	0.0				
PLASTIC LIMIT:	0.0	0.0				
PLASTIC INDEX.:	0.0	0.0				
% GRAVEL:	49	0				
% SAND:	43	11				
% FINES:	8	89				
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILT (ML)				



PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 612-358
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1733+700 15M RT		
LOGGED BY:	B.B.		DATE COMP: 2001/08/03

FIELD NO:	629	630				
LAB NO:	1376	1377				
DEPTH:	0.9-1.1	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	96%	99%				
10.0	96%	97%				
5.0	94%	88%				
2.5	93%	78%				
1.25	91%	67%				
0.630	90%	57%				
0.315	87%	44%				
0.160	77%	33%				
0.080	54%	24%				
M.C.(%):	25%	7%				
LIQUID LIMIT:	0.0	0.0				
PLASTIC LIMIT:	0.0	0.0				
PLASTIC INDEX.:	0.0	0.0				
% GRAVEL:	6	12				
% SAND:	40	64				
% FINES:	54	24				
CLASSIFICATION	SANDY SILT (ML)	SILTY SAND (SM)				

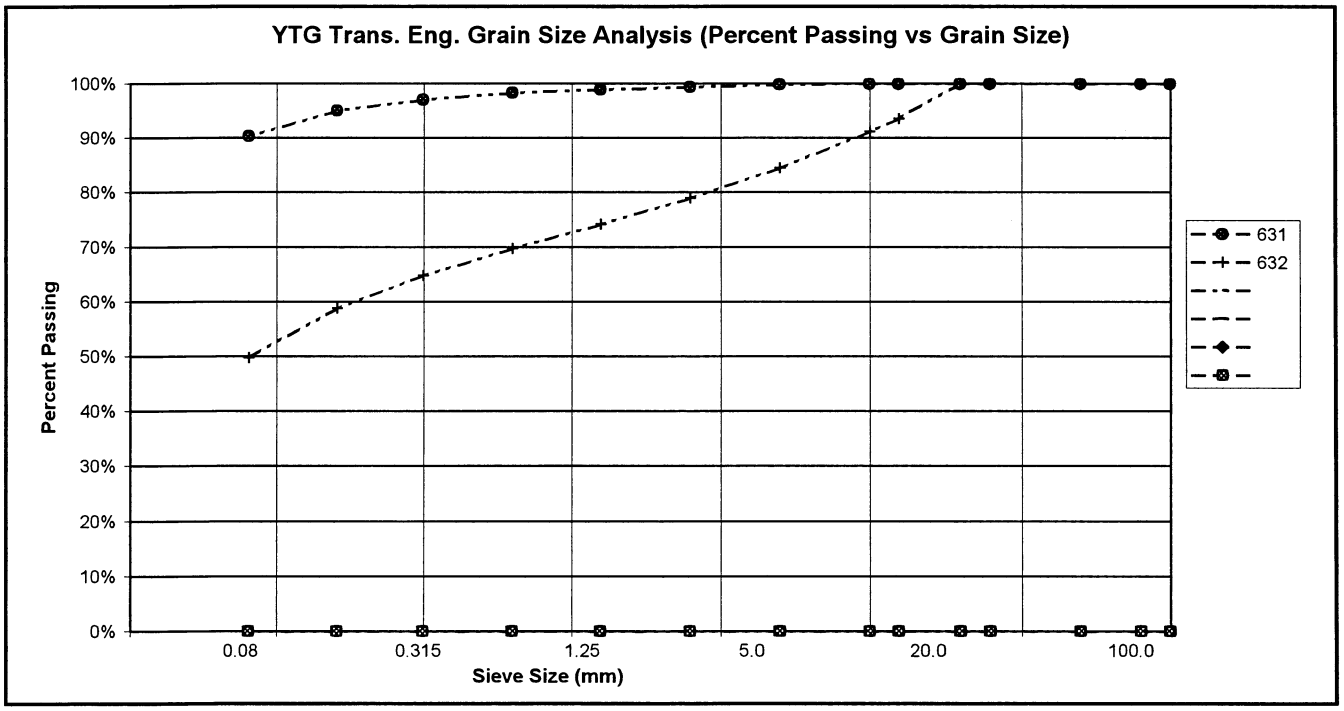


PROJECT NUMBER: 092-202101-0361-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 11
PROJECT LOCATION: Km 1729.6-1787 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: 1733+698 CENTRELINE
LOGGED BY: B.B.

HOLE No.: 612-359

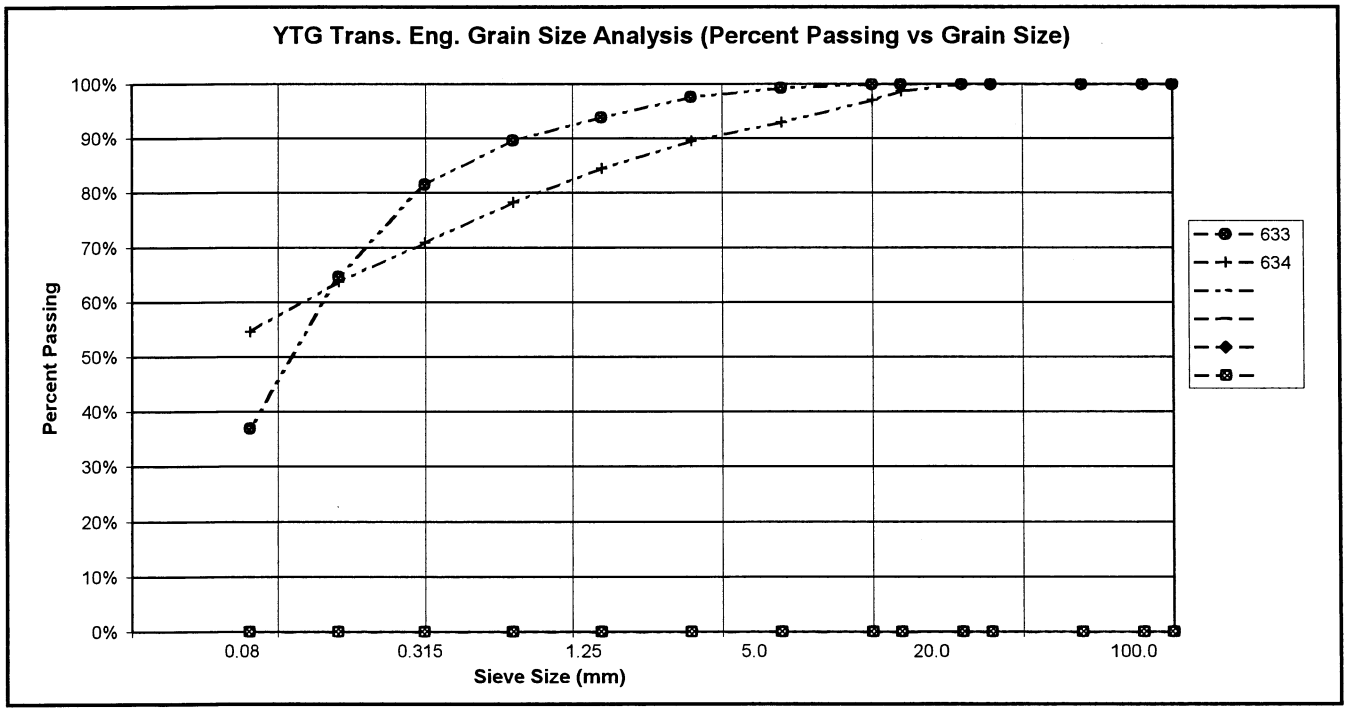
DATE COMP: 2001/08/03

FIELD NO:	631	632				
LAB NO:	1378	1379				
DEPTH:	1.4-1.6	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	100%	100%				
12.5	100%	94%				
10.0	100%	91%				
5.0	100%	84%				
2.5	99%	79%				
1.25	99%	74%				
0.630	98%	70%				
0.315	97%	65%				
0.160	95%	59%				
0.080	90%	50%				
M.C.(%):	32%	10%				
LIQUID LIMIT:	0.0	0.0				
PLASTIC LIMIT:	0.0	0.0				
PLASTIC INDEX.:	0.0	0.0				
% GRAVEL:	0	16				
% SAND:	10	35				
% FINES:	90	50				
CLASSIFICATION	SILT (ML)	SILTY SAND WITH GRAVEL (SM)				



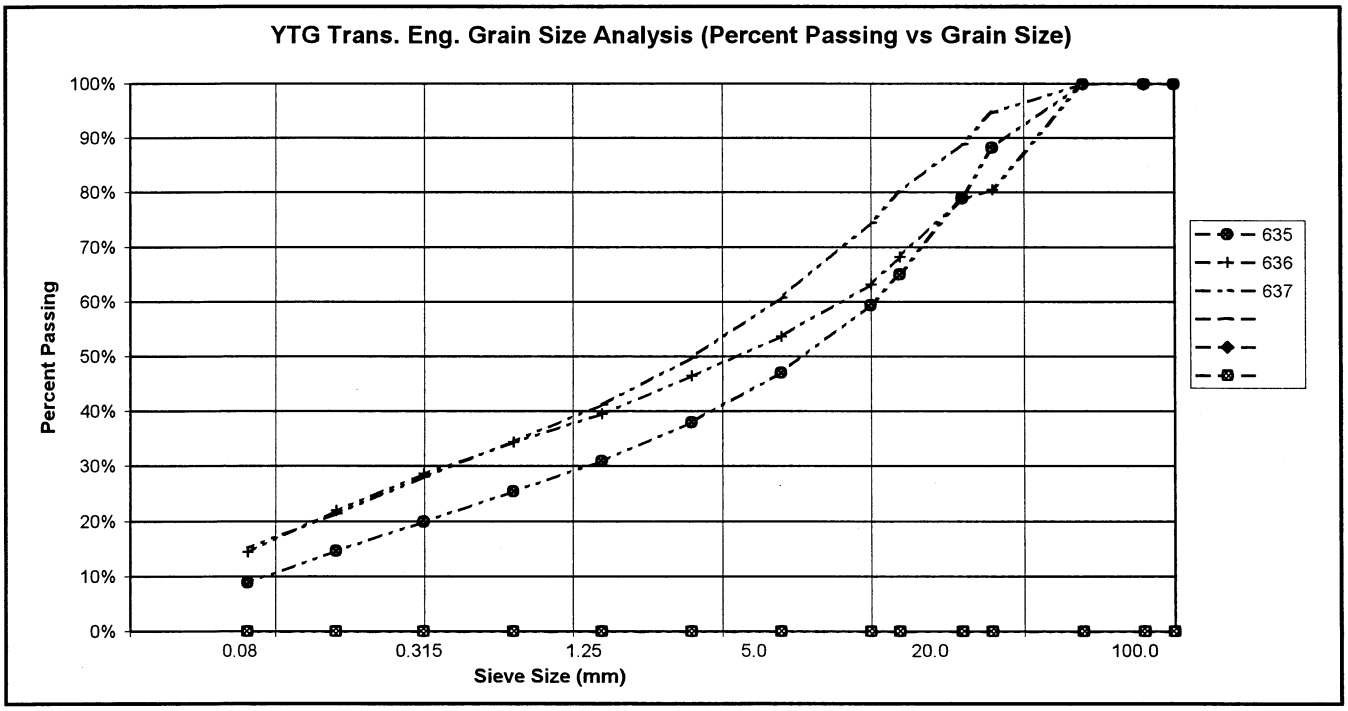
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 612-360
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1733+700 15M RT		
LOGGED BY:	B.B.		DATE COMP: 2001/08/03

FIELD NO:	633	634				
LAB NO:	1380	1381				
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	100%	100%				
20.0	100%	100%				
12.5	100%	99%				
10.0	100%	97%				
5.0	99%	93%				
2.5	98%	90%				
1.25	94%	84%				
0.630	90%	78%				
0.315	82%	71%				
0.160	65%	64%				
0.080	37%	55%				
M.C.(%):	9%	12%				
LIQUID LIMIT:	0.0	0.0				
PLASTIC LIMIT:	0.0	0.0				
PLASTIC INDEX.:	0.0	0.0				
% GRAVEL:	1	7				
% SAND:	62	38				
% FINES:	37	55				
CLASSIFICATION	SILTY SAND (SM)	SANDY SILT (ML)				



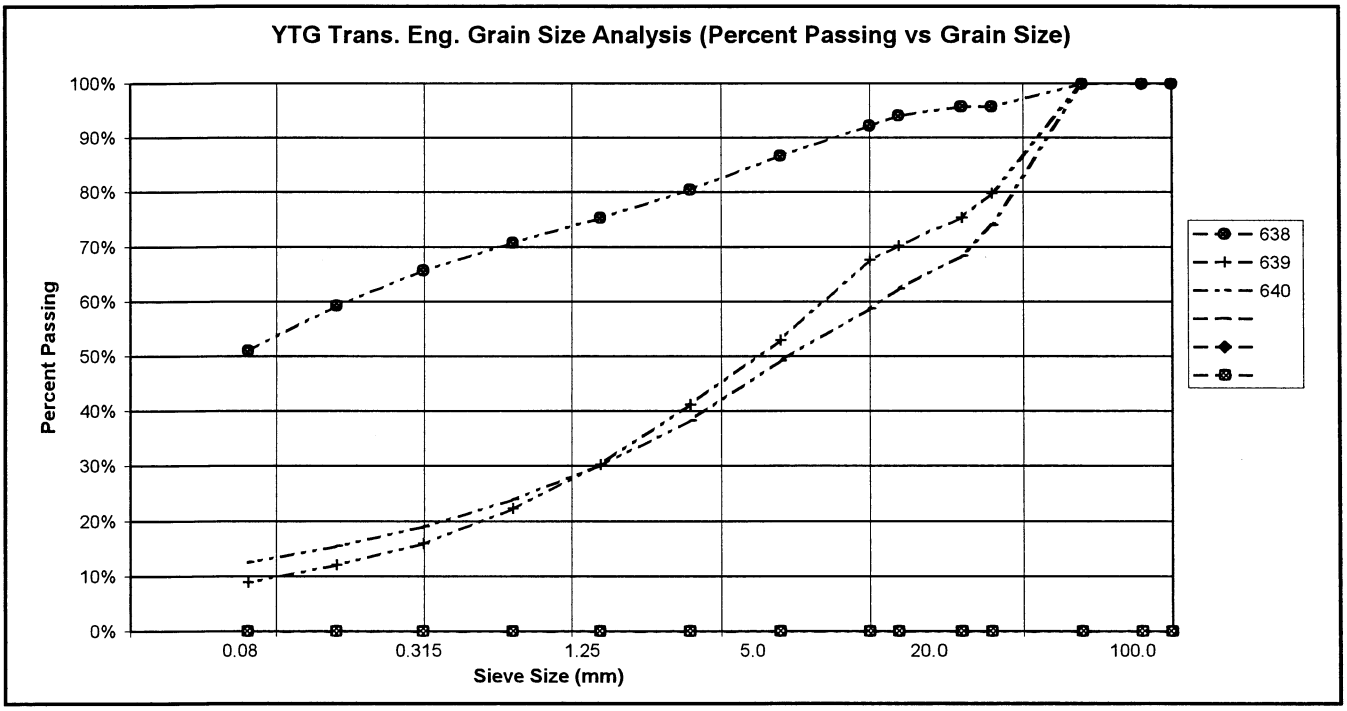
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 612-361
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1733+600 2M RT		
LOGGED BY:	B.B.		DATE COMP: 2001/08/03

FIELD NO:	635	636	637			
LAB NO:	1382	1383	1384			
DEPTH:	1.4-1.6	3.0-3.2	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	88%	81%	95%			
20.0	79%	79%	89%			
12.5	65%	68%	80%			
10.0	59%	63%	74%			
5.0	47%	54%	61%			
2.5	38%	46%	50%			
1.25	31%	40%	41%			
0.630	25%	34%	35%			
0.315	20%	29%	28%			
0.160	15%	22%	21%			
0.080	9%	14%	15%			
M.C.(%):	7%	8%	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:	53	46	39			
% SAND:	38	39	45			
% FINES:	9	14	15			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)			



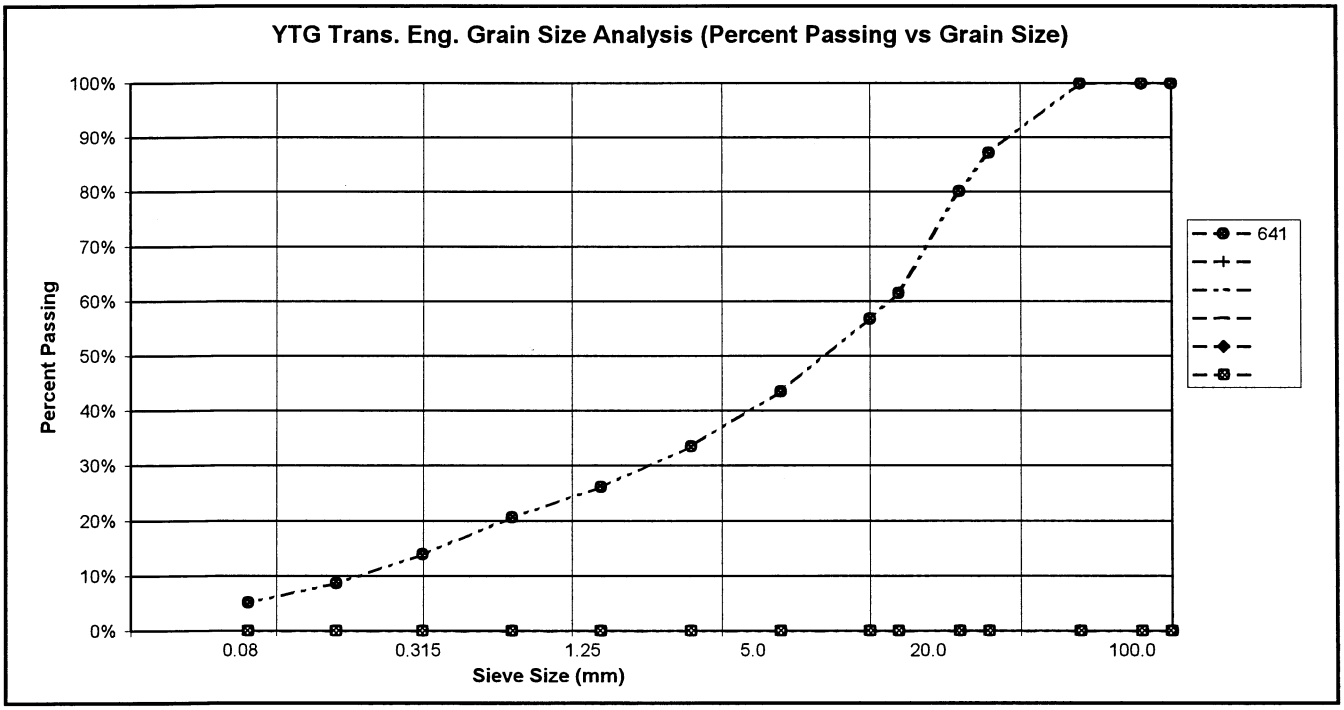
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 612-362
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1733+500 15M RT		
LOGGED BY:	B.B.		DATE COMP: 2001/08/03

FIELD NO:	638	639	640			
LAB NO:	1385	1386	1387			
DEPTH:	1.2-1.4	2.7-2.9	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	96%	80%	74%			
20.0	96%	75%	68%			
12.5	94%	70%	62%			
10.0	92%	68%	59%			
5.0	87%	53%	49%			
2.5	80%	41%	38%			
1.25	75%	30%	30%			
0.630	71%	22%	24%			
0.315	66%	16%	19%			
0.160	59%	12%	15%			
0.080	51%	9%	13%			
M.C.(%):	16%	4%	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:	13	47	51			
% SAND:	36	44	37			
% FINES:	51	9	13			
CLASSIFICATION	SANDY SILT (ML)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY GRAVEL WITH SAND (GM)			



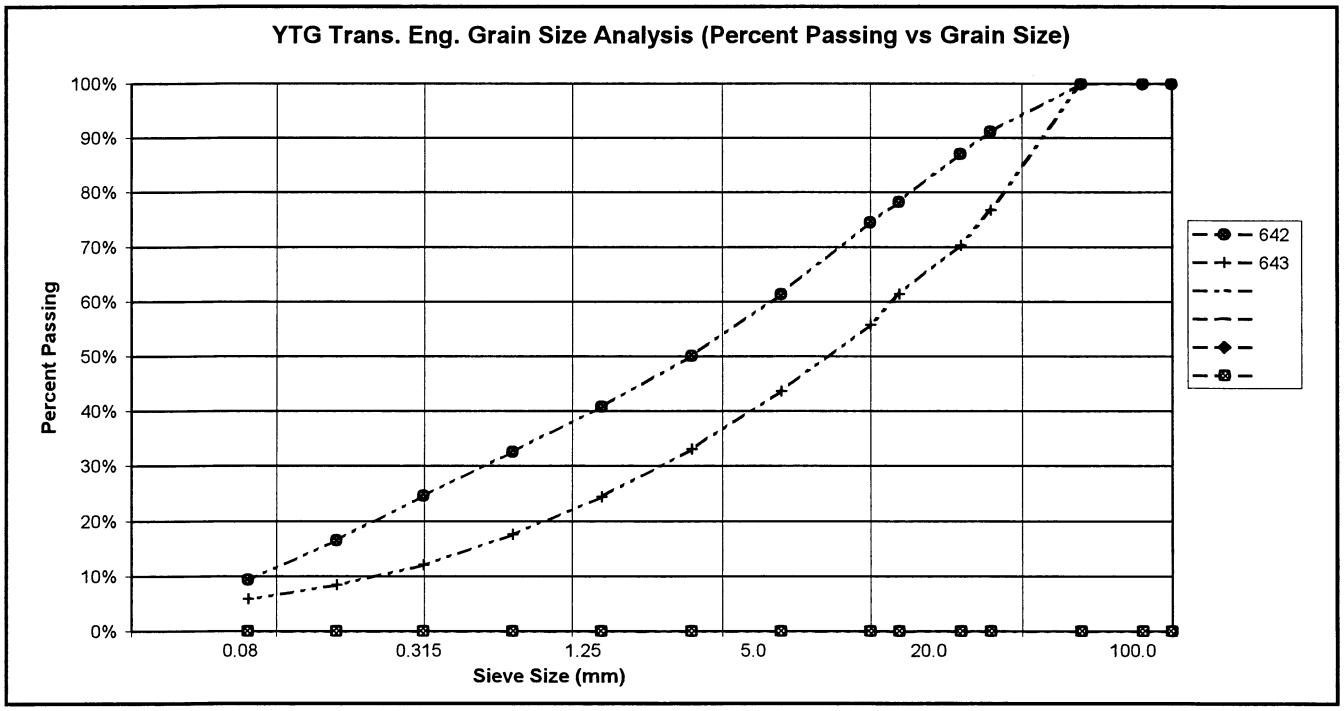
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 612-363
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1733+498 CENTRELINE		
LOGGED BY:	B.B.		DATE COMP: 2001/08/03

FIELD NO:	641					
LAB NO:	1388					
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	87%					
20.0	80%					
12.5	62%					
10.0	57%					
5.0	44%					
2.5	34%					
1.25	26%					
0.630	21%					
0.315	14%					
0.160	9%					
0.080	5%					
M.C.(%):	4%					
LIQUID LIMIT:	0.0					
PLASTIC LIMIT:	0.0					
PLASTIC INDEX.:	0.0					
% GRAVEL:	56					
% SAND:	38					
% FINES:	5					
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)					



PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 612-364
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1733+500 15M LT		
LOGGED BY:	B.B.		DATE COMP: 2001/08/03

FIELD NO:	642	643				
LAB NO:	1389	1390				
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%	77%				
20.0	87%	70%				
12.5	78%	61%				
10.0	74%	56%				
5.0	61%	44%				
2.5	50%	33%				
1.25	41%	24%				
0.630	33%	18%				
0.315	25%	12%				
0.160	17%	8%				
0.080	9%	6%				
M.C.(%):	5%	3%				
LIQUID LIMIT:	0.0	0.0				
PLASTIC LIMIT:	0.0	0.0				
PLASTIC INDEX.:	0.0	0.0				
% GRAVEL:	39	56				
% SAND:	52	38				
% FINES:	9	6				
CLASSIFICATION	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)				

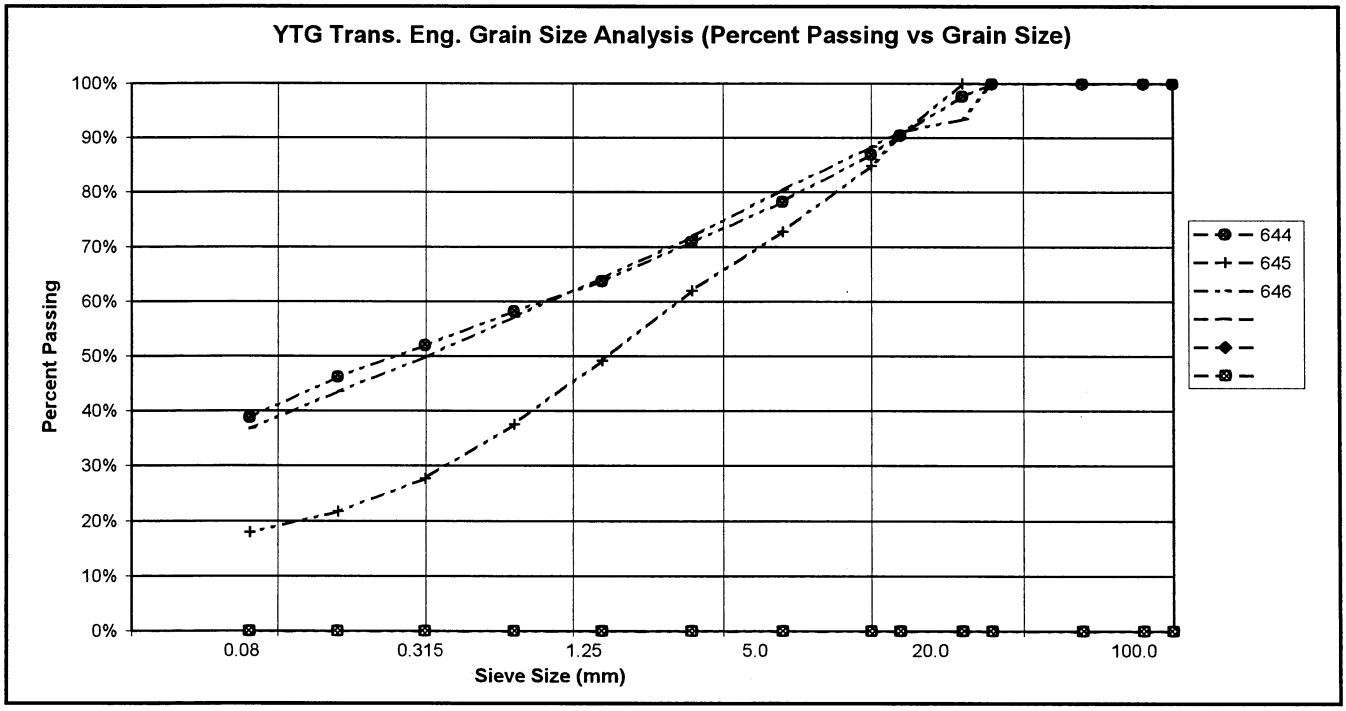


PROJECT NUMBER: 092-202101-0361-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 11
PROJECT LOCATION: Km 1729.6-1787 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: 1733+450 2M LT
LOGGED BY: B.B.

HOLE No.: 612-365

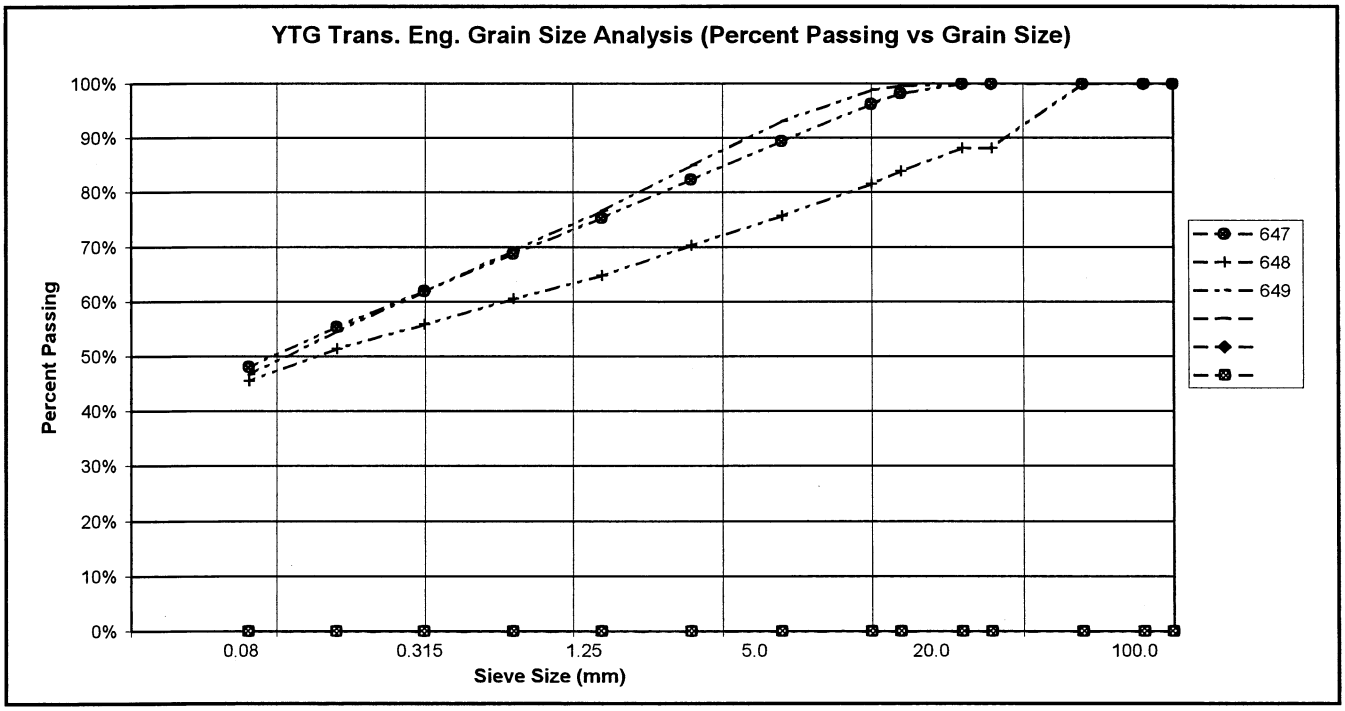
DATE COMP: 2001/08/03

FIELD NO:	644	645	646			
LAB NO:	1391	1392	1393			
DEPTH:	1.4-1.6	3.0-3.2	5.7-6.0			
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	98%	100%	93%			
12.5	91%	90%	91%			
10.0	87%	85%	88%			
5.0	78%	73%	80%			
2.5	71%	62%	72%			
1.25	64%	49%	64%			
0.630	58%	38%	57%			
0.315	52%	28%	50%			
0.160	46%	22%	44%			
0.080	39%	18%	37%			
M.C.(%):	8%	4%	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:	22	27	20			
% SAND:	39	55	44			
% FINES:	39	18	37			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)			



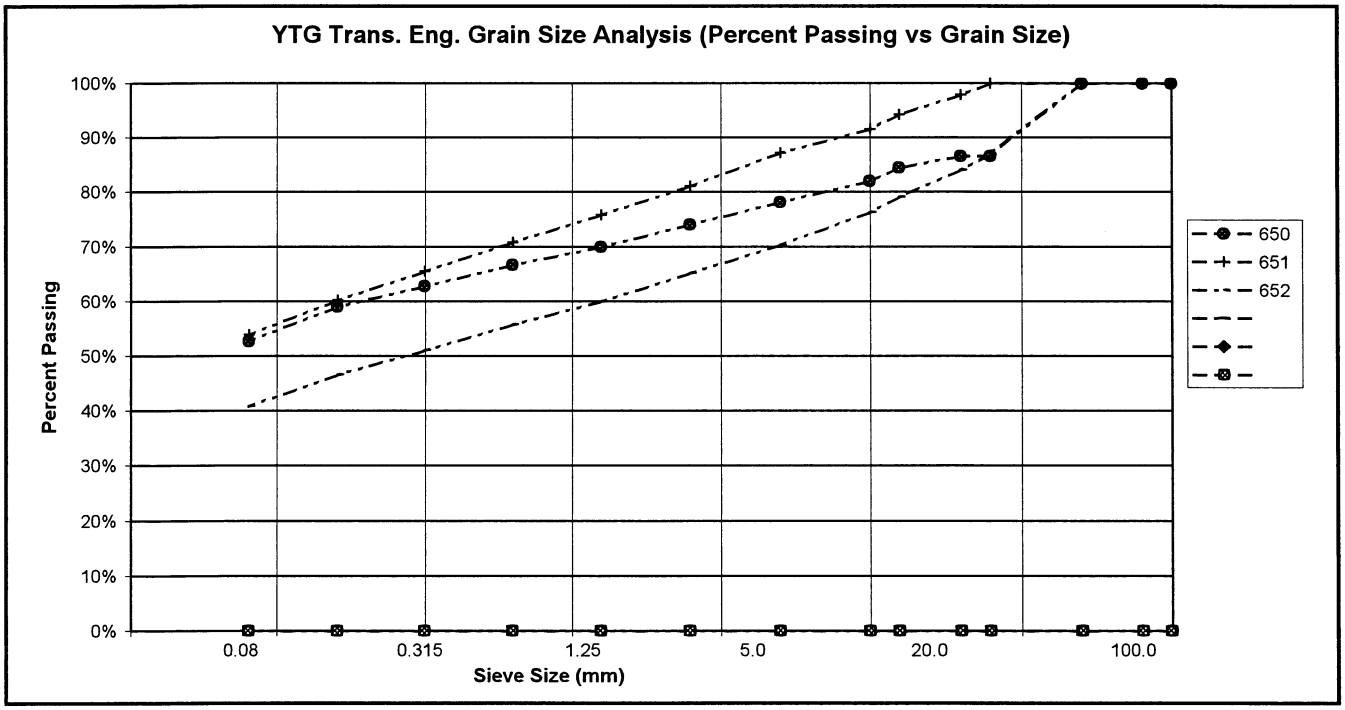
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 612-366
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1733+325 2M RT		
LOGGED BY:	B.B.		DATE COMP: 2001/08/03

FIELD NO:	647	648	649			
LAB NO:	1394	1395	1396			
DEPTH:	0.9-1.1	2.9-3.1	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	100%	88%	100%			
20.0	100%	88%	100%			
12.5	98%	84%	100%			
10.0	96%	82%	99%			
5.0	89%	76%	93%			
2.5	82%	70%	85%			
1.25	75%	65%	77%			
0.630	69%	61%	69%			
0.315	62%	56%	62%			
0.160	55%	51%	55%			
0.080	48%	46%	47%			
M.C.(%):	24%	13%	14%			
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:	11	24	7			
% SAND:	41	30	46			
% FINES:	48	46	47			
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND (SM)			



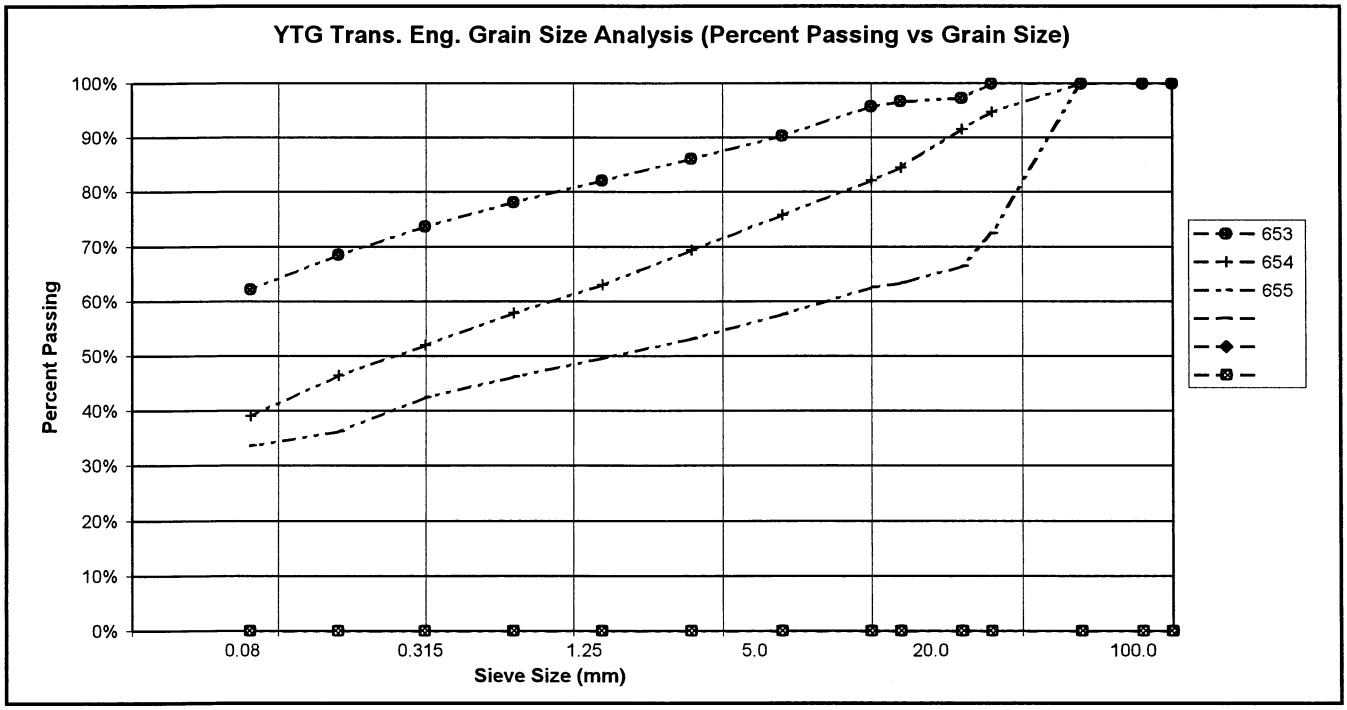
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 612-367
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1733+190 2M LT		
LOGGED BY:	B.B.		DATE COMP: 2001/08/03

FIELD NO:	650	651	652			
LAB NO:	1397	1398	1399			
DEPTH:	1.3-1.5	2.9-3.1	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	87%	100%	87%			
20.0	87%	98%	84%			
12.5	84%	94%	79%			
10.0	82%	92%	76%			
5.0	78%	87%	70%			
2.5	74%	81%	65%			
1.25	70%	76%	60%			
0.630	67%	71%	56%			
0.315	63%	66%	51%			
0.160	59%	60%	47%			
0.080	53%	54%	41%			
M.C.(%):	12%	14%	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:	22	13	30			
% SAND:	26	33	29			
% FINES:	53	54	41			
CLASSIFICATION	SANDY SILT WITH GRAVEL (ML)	SANDY SILT (ML)	SILTY GRAVEL WITH SAND (GM)			



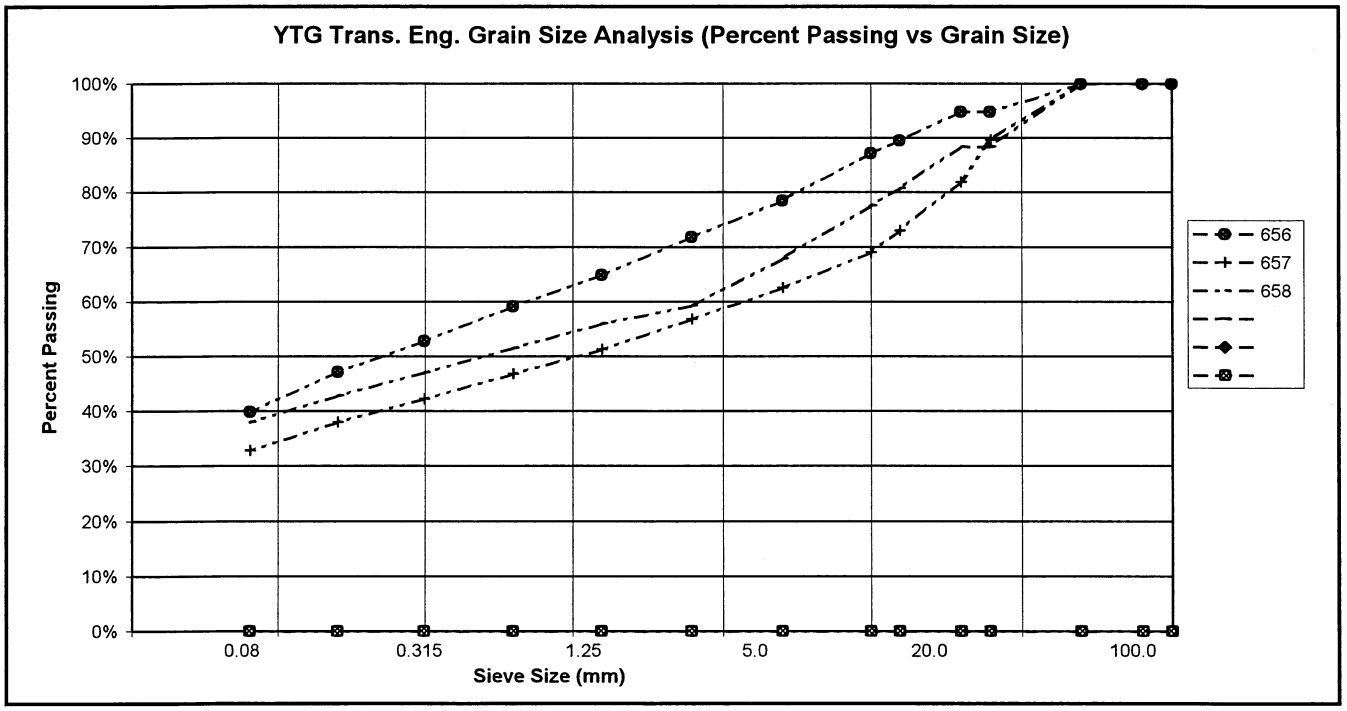
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 612-368
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1733+100 2M LT		
LOGGED BY:	B.B.		DATE COMP: 2001/08/08

FIELD NO:	653	654	655			
LAB NO:	1400	1401	1402			
DEPTH:	1.2-1.4	3.0-3.2	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	100%	95%	72%			
20.0	97%	92%	66%			
12.5	97%	84%	63%			
10.0	96%	82%	63%			
5.0	90%	76%	58%			
2.5	86%	69%	53%			
1.25	82%	63%	50%			
0.630	78%	58%	46%			
0.315	74%	52%	42%			
0.160	69%	46%	36%			
0.080	62%	39%	34%			
M.C.(%):	7%	9%	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:	10	24	42			
% SAND:	28	37	24			
% FINES:	62	39	34			
CLASSIFICATION	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)			



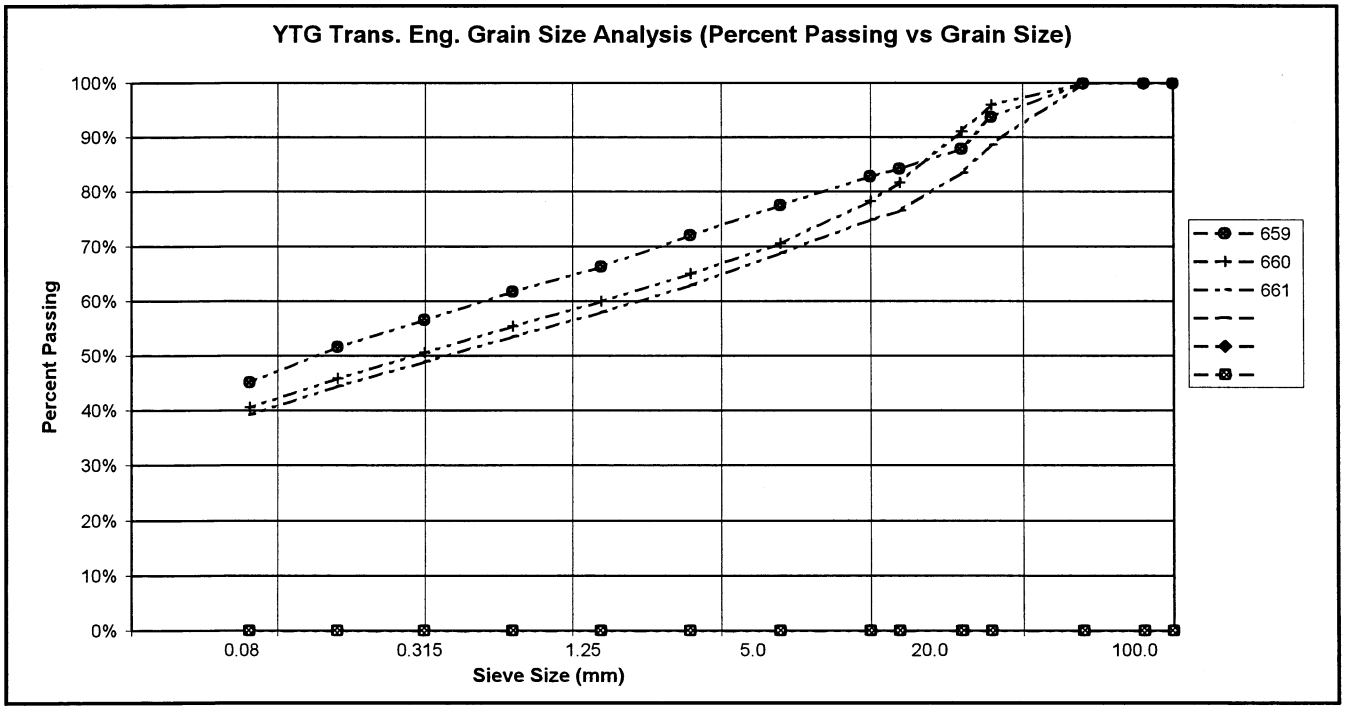
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 612-369
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1732+996 11M LT		
LOGGED BY:	B.B.		DATE COMP: 2001/08/08

FIELD NO:	656	657	658			
LAB NO:	1403	1404	1405			
DEPTH:	1.4-1.6	3.7-3.9	7.2.-7.5			
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	95%	90%	88%			
20.0	95%	82%	88%			
12.5	90%	73%	81%			
10.0	87%	69%	78%			
5.0	79%	63%	68%			
2.5	72%	57%	59%			
1.25	65%	51%	56%			
0.630	59%	47%	51%			
0.315	53%	42%	47%			
0.160	47%	38%	43%			
0.080	40%	33%	38%			
M.C.(%):	7%	7%	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:	21	37	32			
% SAND:	39	30	30			
% FINES:	40	33	38			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)	SILTY GRAVEL WITH SAND (GM)			



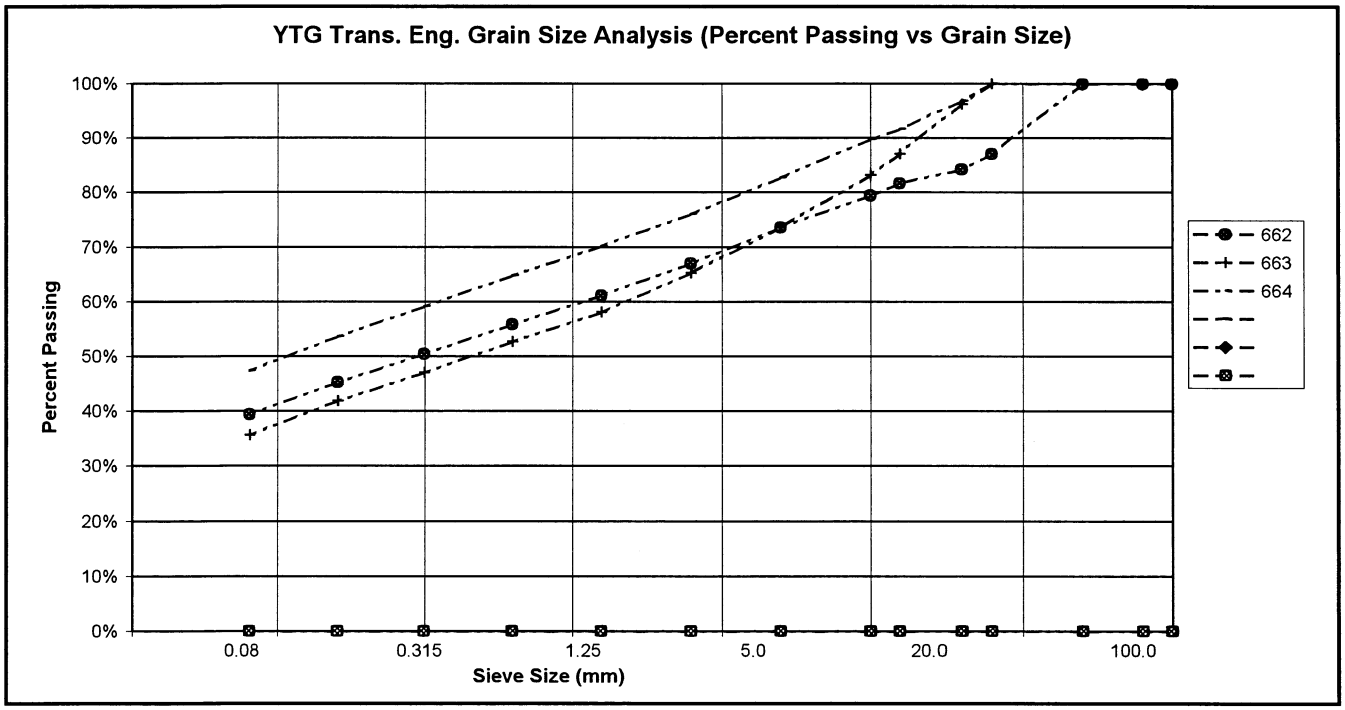
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 612-370
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1732+900 2M LT		
LOGGED BY:	B.B.		DATE COMP: 2001/08/08

FIELD NO:	659	660	661			
LAB NO:	1406	1407	1408			
DEPTH:	1.3-1.5	3.7-3.9	5.7-6.0			
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	94%	96%	89%			
20.0	88%	91%	83%			
12.5	84%	82%	77%			
10.0	83%	78%	75%			
5.0	78%	71%	69%			
2.5	72%	65%	63%			
1.25	66%	60%	58%			
0.630	62%	55%	54%			
0.315	57%	51%	49%			
0.160	52%	46%	44%			
0.080	45%	41%	39%			
M.C.(%):	12%	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:	22	29	31			
% SAND:	32	30	29			
% FINES:	45	41	39			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)			



PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 612-371
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1732+800 2M LT		
LOGGED BY:	B.B.		DATE COMP: 2001/08/08

FIELD NO:	662	663	664			
LAB NO:	1409	1410	1411			
DEPTH:	1.4-1.6	3.6-3.8	5.7-6.0			
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	87%	100%	100%			
20.0	84%	96%	97%			
12.5	82%	87%	92%			
10.0	79%	83%	90%			
5.0	74%	74%	83%			
2.5	67%	65%	76%			
1.25	61%	58%	70%			
0.630	56%	53%	65%			
0.315	51%	47%	59%			
0.160	45%	42%	54%			
0.080	39%	36%	47%			
M.C.(%):	9%	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:	26	26	17			
% SAND:	34	38	35			
% FINES:	39	36	47			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)			

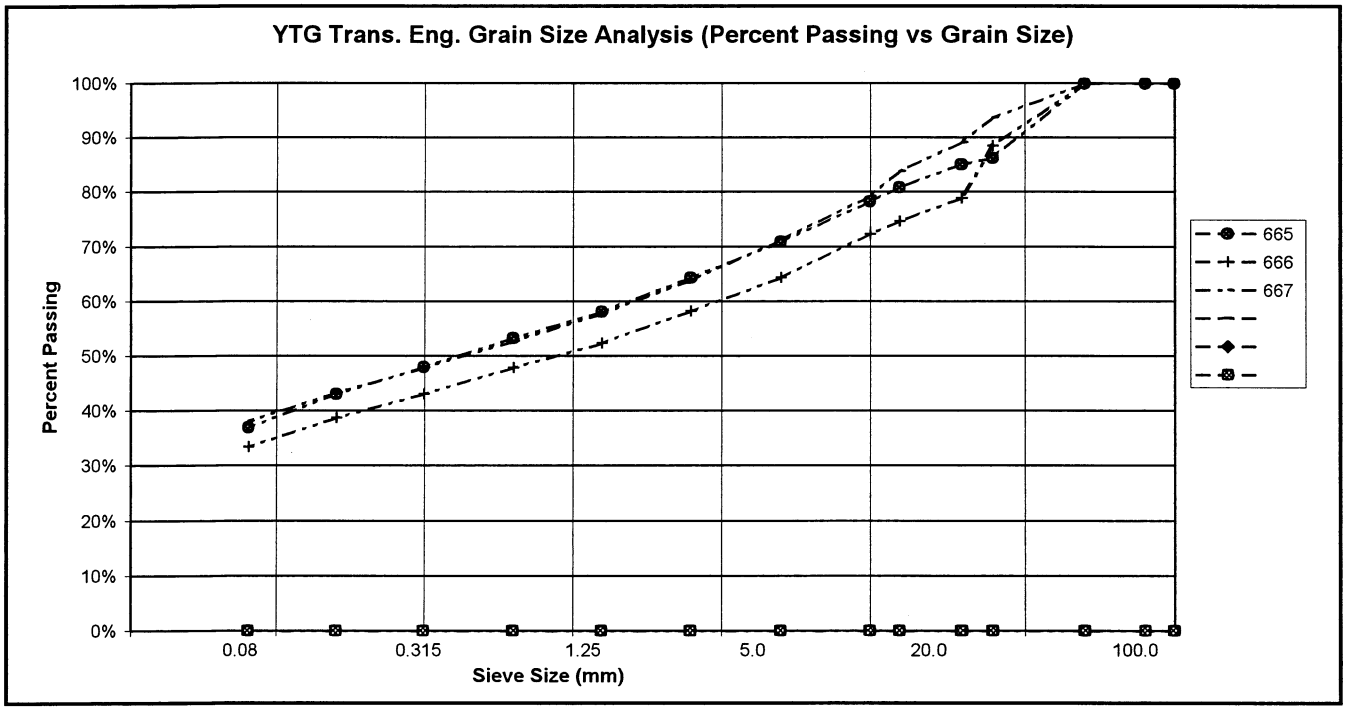


PROJECT NUMBER: 092-202101-0361-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 11
PROJECT LOCATION: Km 1729.6-1787 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: 1732+712 15M LT
LOGGED BY: B.B.

HOLE No.: 612-372

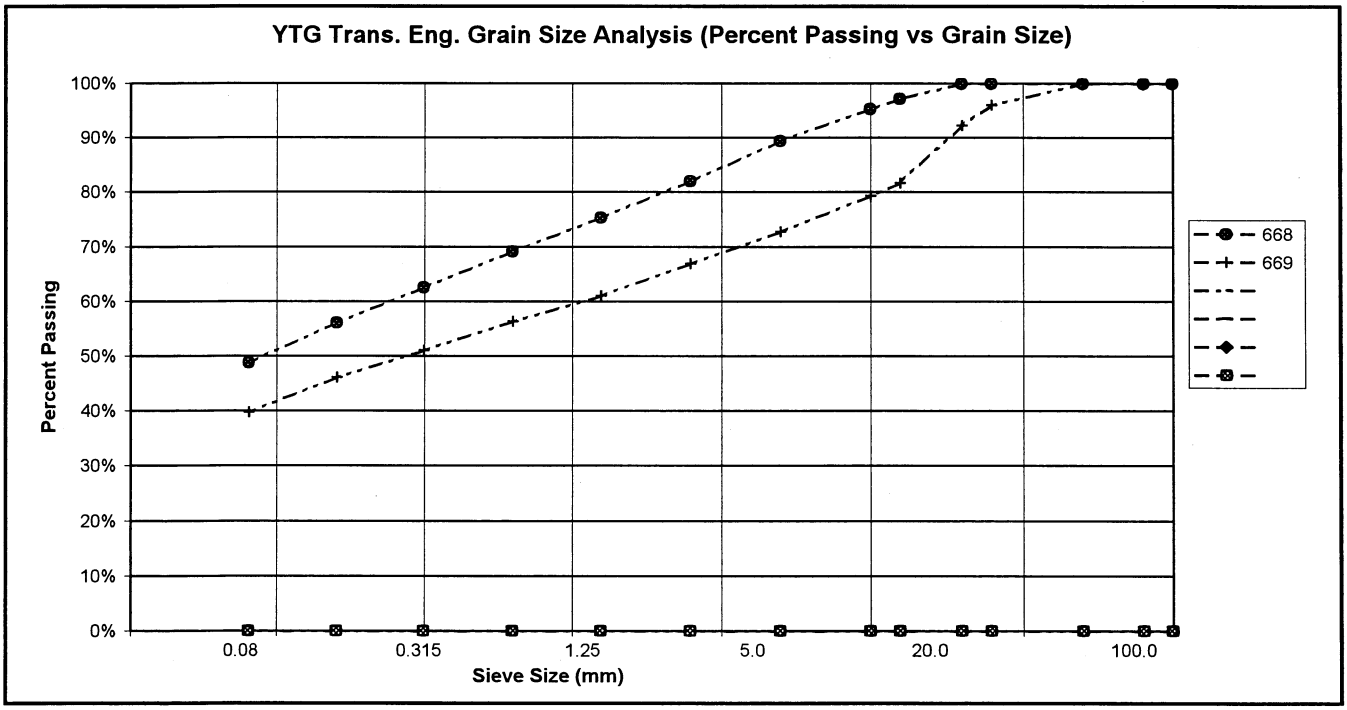
DATE COMP: 2001/08/08

FIELD NO:	665	666	667			
LAB NO:	1412	1413	1414			
DEPTH:	1.4-1.6	3.5-3.7	5.6-6.0			
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	86%	88%	94%			
20.0	85%	79%	89%			
12.5	81%	75%	84%			
10.0	78%	72%	79%			
5.0	71%	64%	71%			
2.5	64%	58%	64%			
1.25	58%	52%	58%			
0.630	53%	48%	53%			
0.315	48%	43%	48%			
0.160	43%	39%	43%			
0.080	37%	33%	38%			
M.C.(%):	8%	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:	29	36	29			
% SAND:	34	31	33			
% FINES:	37	33	38			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)			



PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 612-373
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1732+600 2M LT		
LOGGED BY:	B.B.		DATE COMP: 2001/08/08

FIELD NO:	668	669				
LAB NO:	1415	1416				
DEPTH:	1.2-1.4	3.8-4.1				
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%	96%				
20.0	100%	92%				
12.5	97%	82%				
10.0	95%	79%				
5.0	89%	73%				
2.5	82%	67%				
1.25	75%	61%				
0.630	69%	56%				
0.315	63%	51%				
0.160	56%	46%				
0.080	49%	40%				
M.C.(%):	10%	7%				
LIQUID LIMIT:	0.0	0.0				
PLASTIC LIMIT:	0.0	0.0				
PLASTIC INDEX.:	0.0	0.0				
% GRAVEL:	11	27				
% SAND:	41	33				
% FINES:	49	40				
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)				

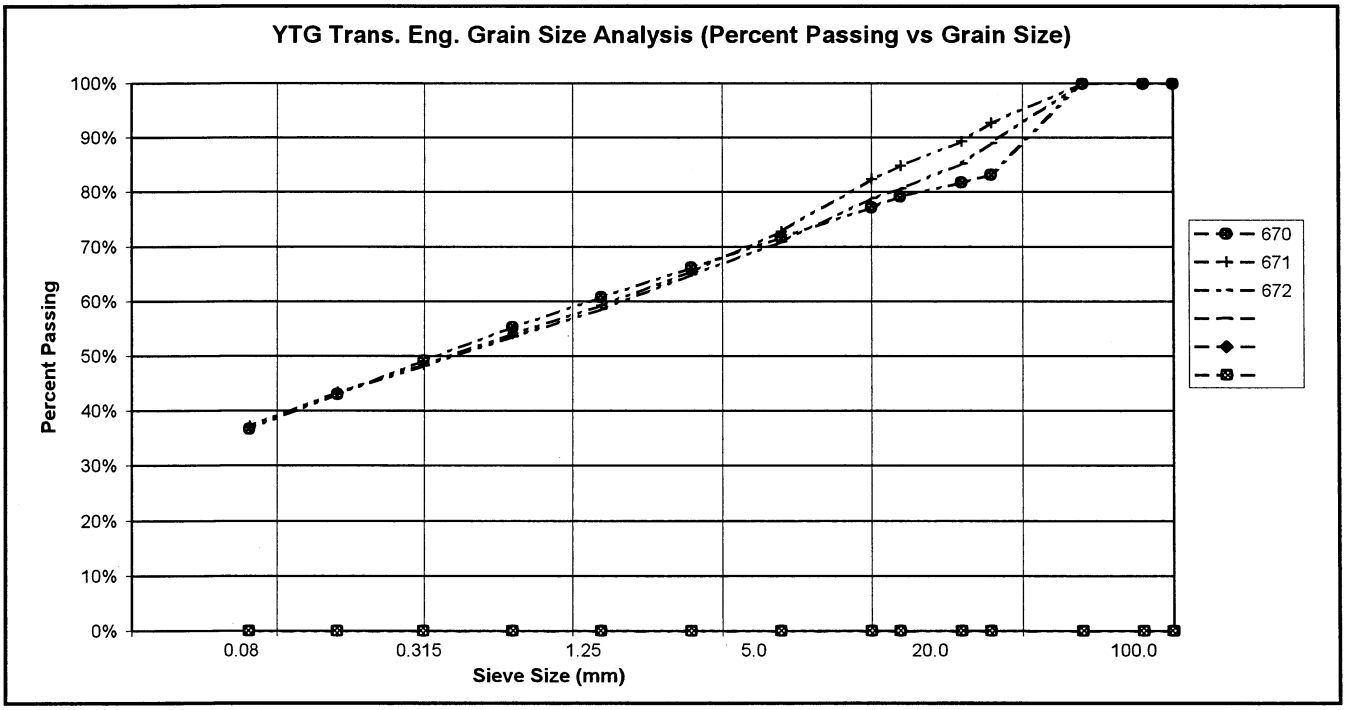


PROJECT NUMBER: 092-202101-0361-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 11
PROJECT LOCATION: Km 1729.6-1787 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: 1732+482 15M LT
LOGGED BY: B.B.

HOLE No.: 612-374

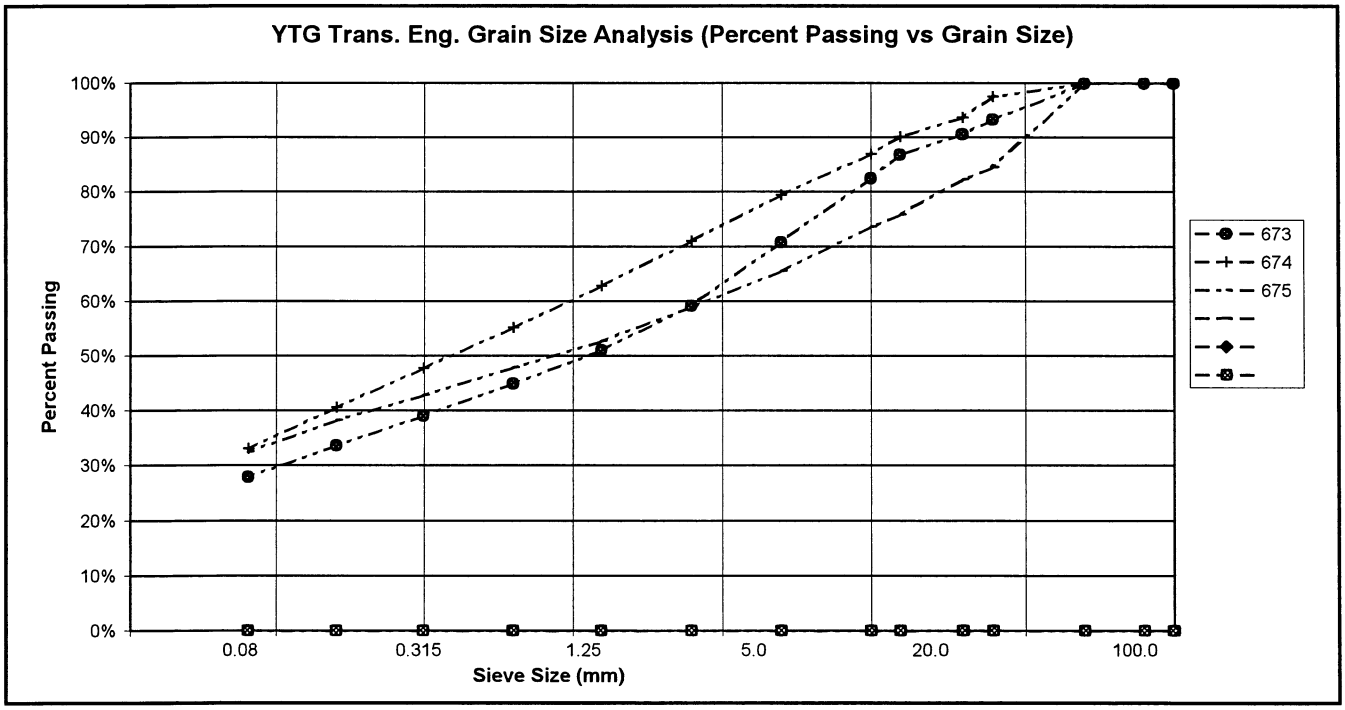
DATE COMP: 2001/08/08

FIELD NO:	670	671	672			
LAB NO:	1417	1418	1419			
DEPTH:	1.4-1.6	3.0-3.2	4.2-4.5			
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	83%	93%	89%			
20.0	82%	89%	85%			
12.5	79%	85%	81%			
10.0	77%	82%	79%			
5.0	72%	73%	71%			
2.5	66%	65%	65%			
1.25	61%	59%	59%			
0.630	55%	54%	54%			
0.315	49%	49%	48%			
0.160	43%	43%	43%			
0.080	37%	37%	37%			
M.C.(%):	9%	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:	28	27	29			
% SAND:	35	36	34			
% FINES:	37	37	37			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)			



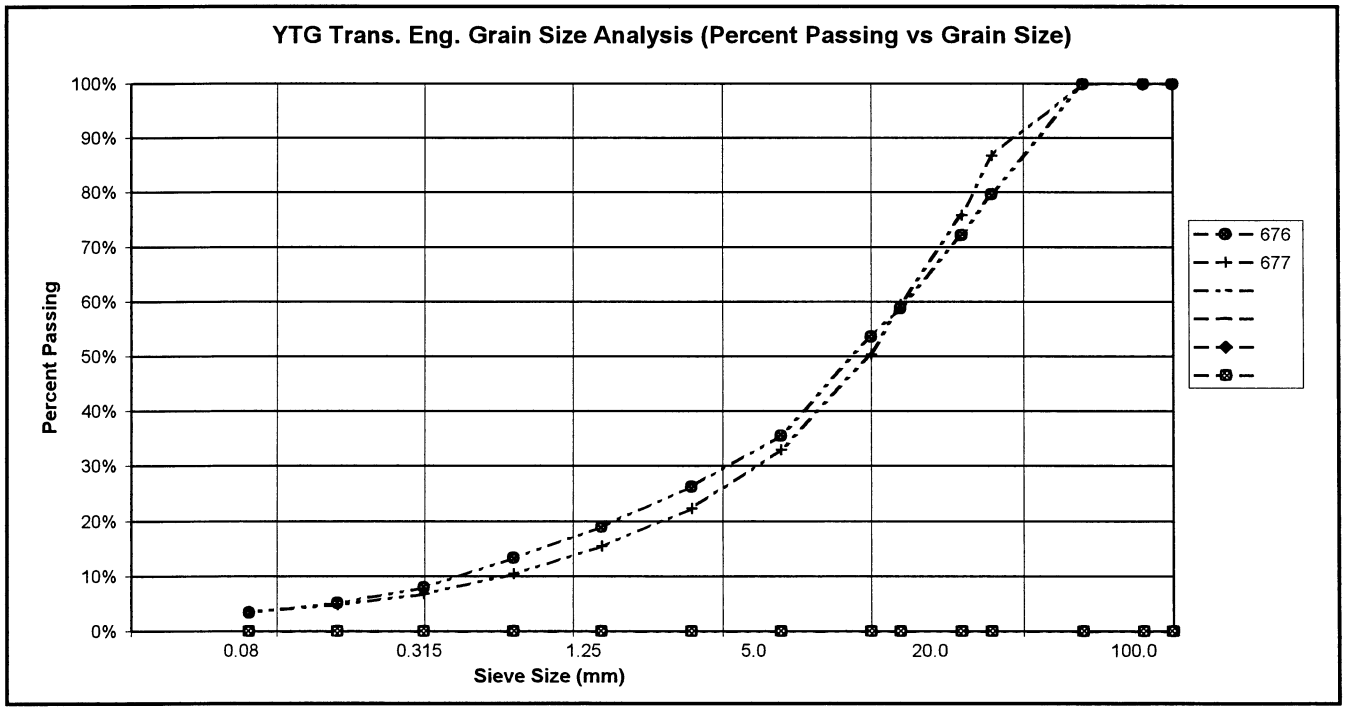
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 612-375
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1732+375 2M LT		
LOGGED BY:	B.B.		DATE COMP: 2001/08/08

FIELD NO:	673	674	675			
LAB NO:	1420	1421	1422			
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	93%	98%	84%			
20.0	91%	94%	82%			
12.5	87%	90%	76%			
10.0	83%	87%	74%			
5.0	71%	80%	66%			
2.5	59%	71%	59%			
1.25	51%	63%	53%			
0.630	45%	55%	48%			
0.315	39%	48%	43%			
0.160	34%	41%	38%			
0.080	28%	33%	32%			
M.C.(%):	6%	5%	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:	29	20	34			
% SAND:	43	46	33			
% FINES:	28	33	32			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)			



PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 612-376
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1732+275 2M LT		
LOGGED BY:	B.B.		DATE COMP: 2001/08/08

FIELD NO:	676	677				
LAB NO:	1423	1424				
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	80%	87%				
20.0	72%	76%				
12.5	59%	60%				
10.0	54%	50%				
5.0	36%	33%				
2.5	26%	22%				
1.25	19%	16%				
0.630	13%	10%				
0.315	8%	7%				
0.160	5%	5%				
0.080	3%	4%				
M.C.(%):	3%	2%				
LIQUID LIMIT:	0.0	0.0				
PLASTIC LIMIT:	0.0	0.0				
PLASTIC INDEX.:	0.0	0.0				
% GRAVEL:	64	67				
% SAND:	32	29				
% FINES:	3	4				
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SAND (GP)				

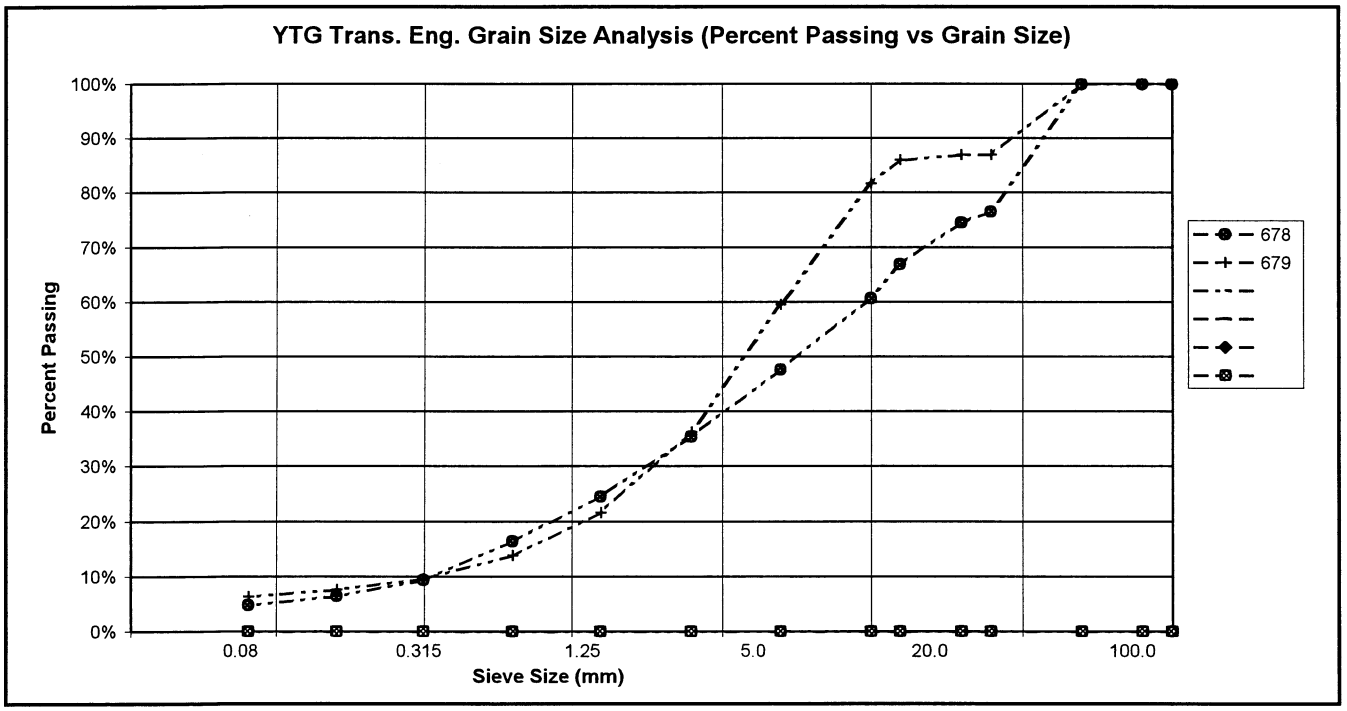


PROJECT NUMBER: 092-202101-0361-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 11
PROJECT LOCATION: Km 1729.6-1787 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: 1732+175 5M LT
LOGGED BY: B.B.

HOLE No.: 612-377

DATE COMP: 2001/08/08

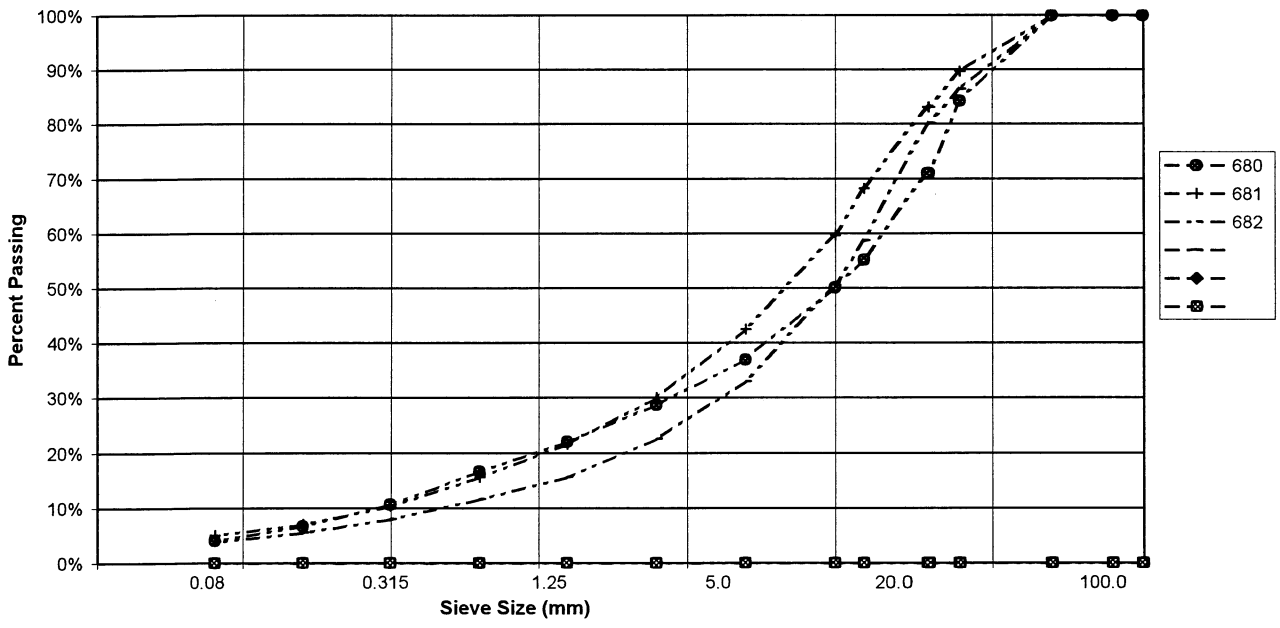
FIELD NO:	678	679				
LAB NO:	1425	1426				
DEPTH:	1.4-1.6	4.1-4.3				
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	**PERCENT PASSING**	**PERCENT PASSING**				
100.0	100%	100%				
80.0	100%	100%				
50.0	100%	100%				
25.0	76%	87%				
20.0	74%	87%				
12.5	67%	86%				
10.0	61%	82%				
5.0	48%	60%				
2.5	35%	36%				
1.25	25%	22%				
0.630	16%	14%				
0.315	9%	10%				
0.160	6%	8%				
0.080	5%	6%				
M.C.(%):	3%	2%				
LIQUID LIMIT:	0.0	0.0				
PLASTIC LIMIT:	0.0	0.0				
PLASTIC INDEX.:	0.0	0.0				
% GRAVEL:	52	40				
% SAND:	43	53				
% FINES:	5	6				
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)				



PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 612-378
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1732+100 2M RT		
LOGGED BY:	B.B.		DATE COMP: 2001/08/08

FIELD NO:	680	681	682			
LAB NO:	1427	1428	1429			
DEPTH:	1.2-1.4	2.9-3.1	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	84%	90%	86%			
20.0	71%	83%	80%			
12.5	55%	68%	59%			
10.0	50%	60%	51%			
5.0	37%	43%	33%			
2.5	29%	30%	23%			
1.25	22%	22%	16%			
0.630	17%	16%	12%			
0.315	11%	10%	8%			
0.160	7%	7%	6%			
0.080	4%	5%	4%			
M.C.(%):	3%	3%	2%			
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:	63	57	67			
% SAND:	33	37	29			
% FINES:	4	5	4			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SAND (GP)			

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)

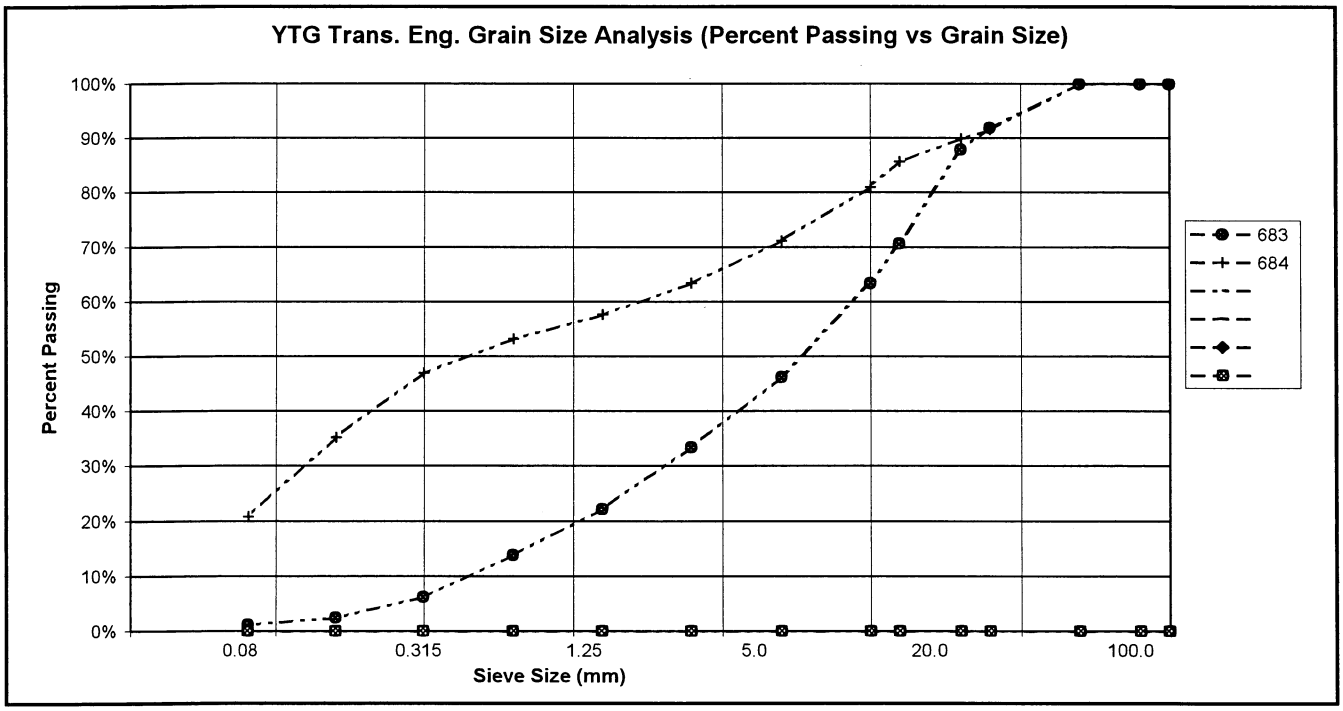


PROJECT NUMBER: 092-202101-0361-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 11
PROJECT LOCATION: Km 1729.6-1787 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: SEE GPS
LOGGED BY: B.B.

HOLE No.: 612-379

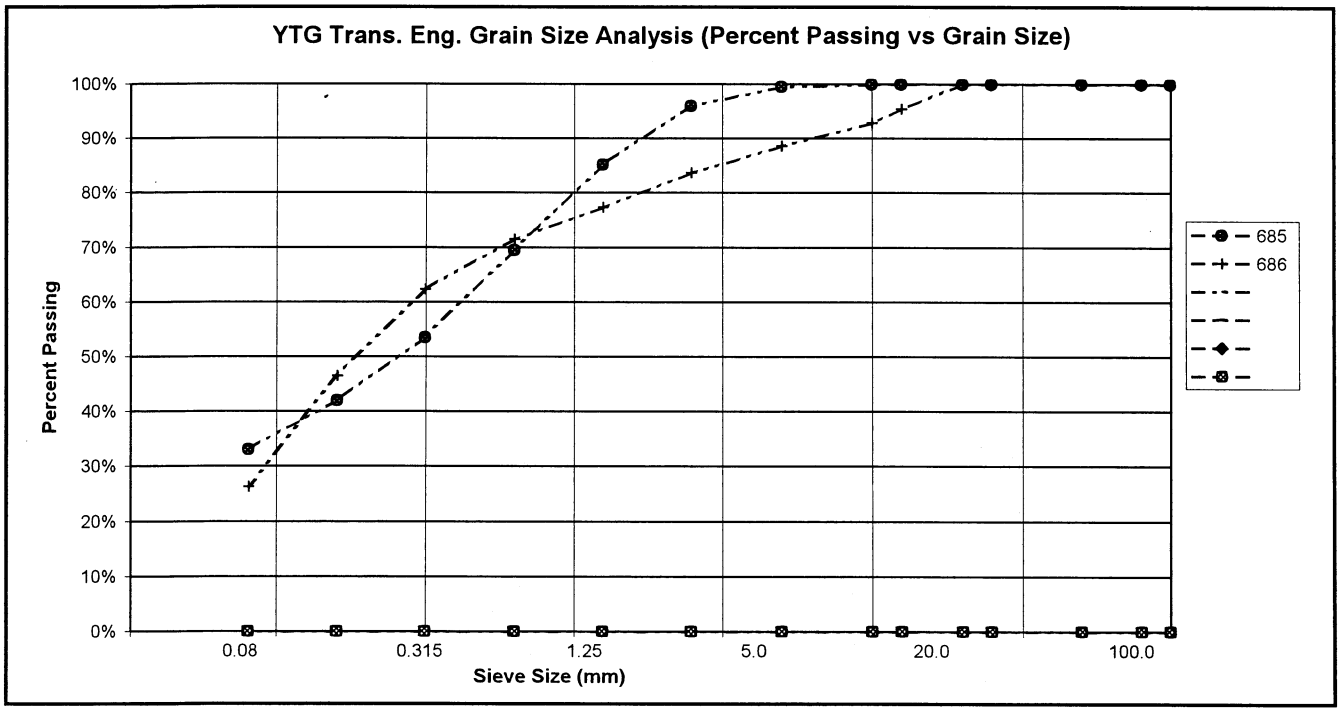
DATE COMP: 2001/08/08

FIELD NO:	683	684				
LAB NO:	1430	1431				
DEPTH:	0.6-0.8	4.2-4.5				
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%	92%				
20.0	88%	90%				
12.5	71%	86%				
10.0	63%	81%				
5.0	46%	71%				
2.5	33%	63%				
1.25	22%	58%				
0.630	14%	53%				
0.315	6%	47%				
0.160	2%	35%				
0.080	1%	21%				
M.C.(%):	8%	15%				
LIQUID LIMIT:	0.0	0.0				
PLASTIC LIMIT:	0.0	0.0				
PLASTIC INDEX.:	0.0	0.0				
% GRAVEL:	54	29				
% SAND:	45	50				
% FINES:	1	21				
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	SILTY SAND WITH GRAVEL (SM)				



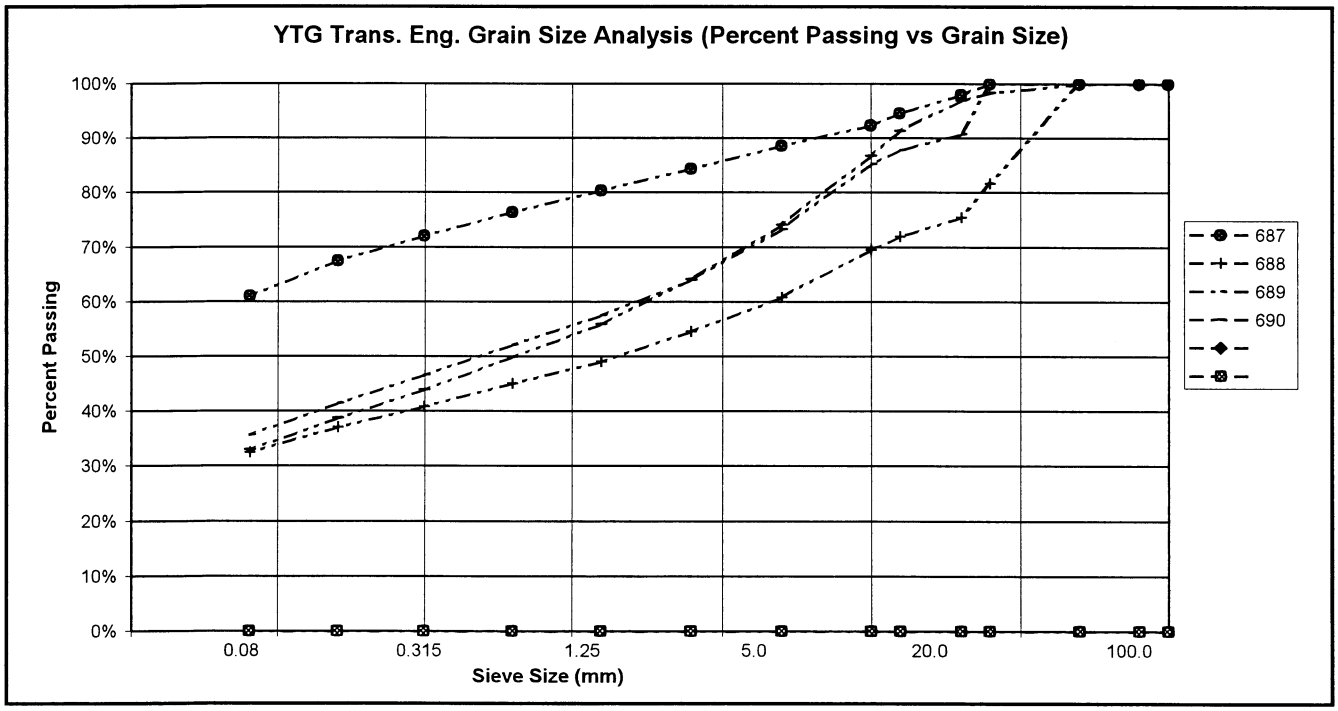
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 613-380
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1731+925 2M LT		
LOGGED BY:	G.C.		DATE COMP: 2001/08/08

FIELD NO:	685	686				
LAB NO:	1432	1433				
DEPTH:	1.3-1.5	4.2-4.5				
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	100%	95%				
10.0	100%	93%				
5.0	100%	89%				
2.5	96%	84%				
1.25	85%	77%				
0.630	69%	71%				
0.315	54%	62%				
0.160	42%	46%				
0.080	33%	26%				
M.C.(%):	16%	17%				
LIQUID LIMIT:	0.0	0.0				
PLASTIC LIMIT:	0.0	0.0				
PLASTIC INDEX.:	0.0	0.0				
% GRAVEL:	0	11				
% SAND:	66	62				
% FINES:	33	26				
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND (SM)				



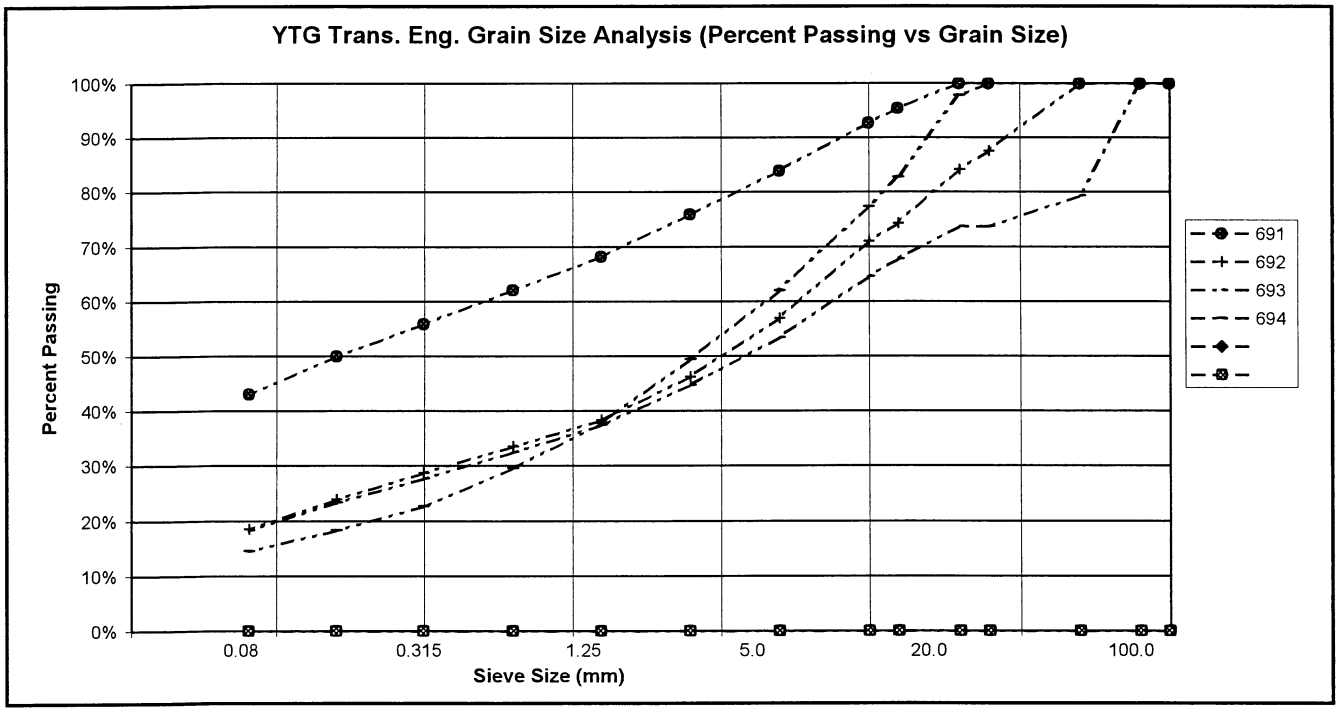
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 613-381
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1731+825 2M LT		
LOGGED BY:	G.C.		DATE COMP: 2001/08/08

FIELD NO:	687	688	689	690		
LAB NO:	1434	1435	1436	1437		
DEPTH:	1.2-1.4	2.9-3.1	5.4-5.6	7.2-7.5		
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%	82%	100%	98%		
20.0	98%	75%	91%	97%		
12.5	95%	72%	88%	91%		
10.0	92%	70%	85%	87%		
5.0	89%	61%	73%	74%		
2.5	84%	55%	64%	64%		
1.25	80%	49%	58%	56%		
0.630	76%	45%	52%	50%		
0.315	72%	41%	47%	44%		
0.160	68%	37%	41%	39%		
0.080	61%	33%	36%	33%		
M.C.(%):	11%	5%	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:	11	39	27	26		
% SAND:	28	28	38	41		
% FINES:	61	33	36	33		
CLASSIFICATION	SANDY SILT (ML)	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		



PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 613-382
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1731+728 2M LT		
LOGGED BY:	G.C.		DATE COMP: 2001/08/24

FIELD NO:	691	692	693	694		
LAB NO:	1466	1467	1468	1469		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.0-4.3		
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%	79%	100%		
25.0	100%	88%	74%	100%		
20.0	100%	84%	74%	98%		
12.5	95%	74%	68%	83%		
10.0	93%	71%	65%	77%		
5.0	84%	57%	53%	62%		
2.5	76%	46%	45%	49%		
1.25	68%	38%	37%	38%		
0.630	62%	34%	32%	30%		
0.315	56%	29%	28%	23%		
0.160	50%	24%	23%	18%		
0.080	43%	19%	18%	15%		
M.C.(%):	10%	5%	5%	4%		
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:	16	43	47	38		
% SAND:	41	38	35	47		
% FINES:	43	19	18	15		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)		

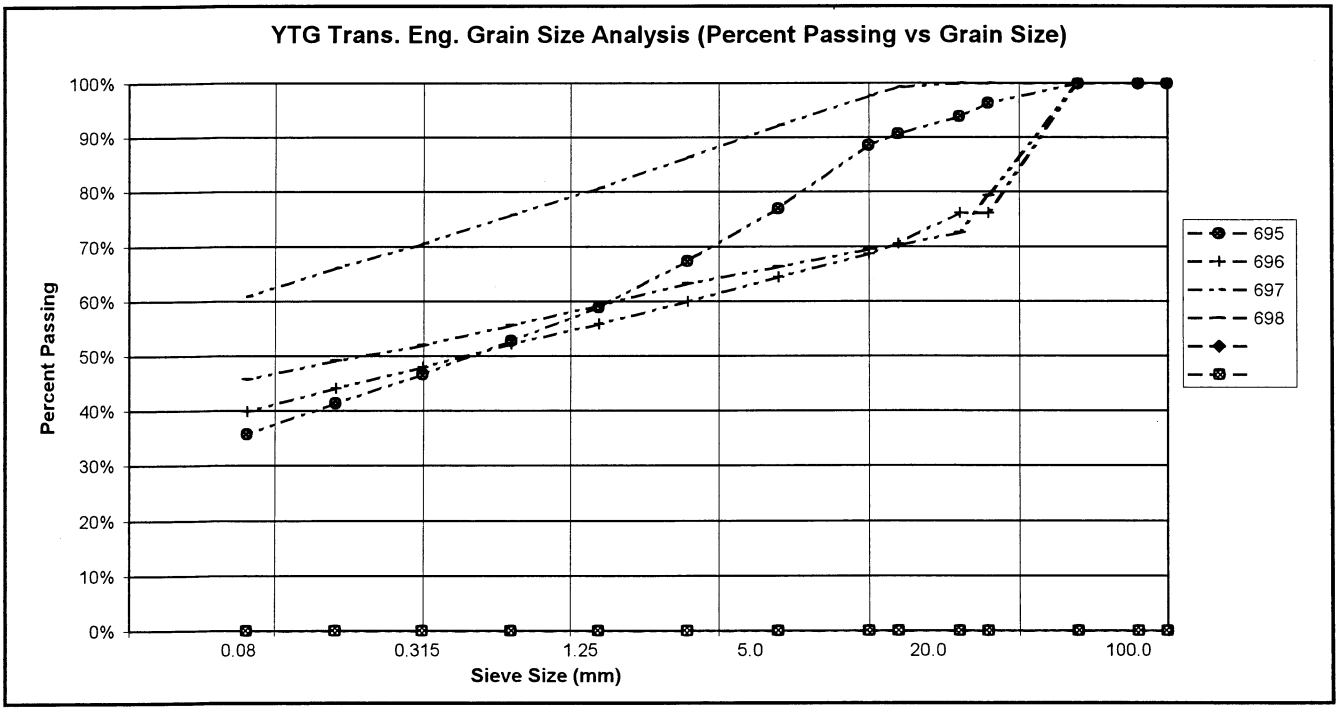


PROJECT NUMBER: 092-202101-0361-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 11
PROJECT LOCATION: Km 1729.6-1787 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: 1731+675 2m LT
LOGGED BY: G.C.

HOLE No.: 613-383

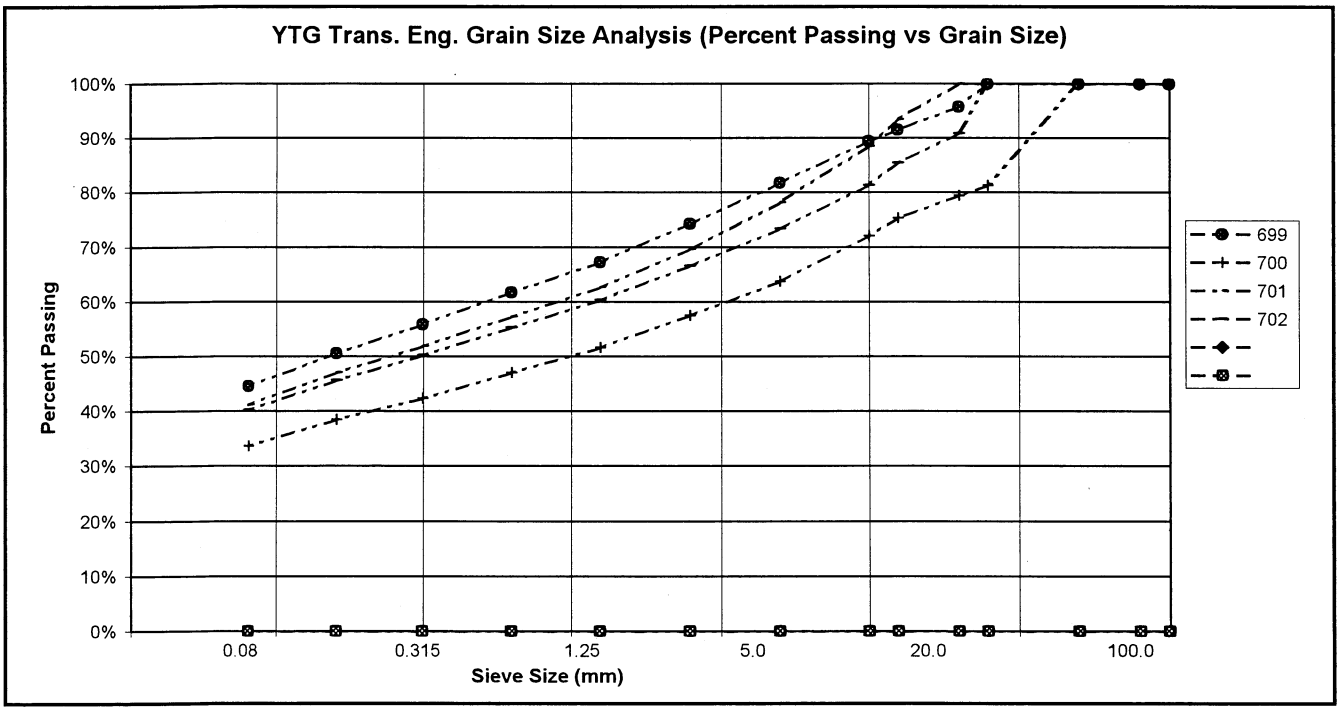
DATE COMP: 2001/08/24

FIELD NO:	695	696	697	698		
LAB NO:	1470	1471	1472	1473		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.0-4.3		
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	96%	76%	100%	79%		
20.0	94%	76%	100%	73%		
12.5	91%	71%	99%	70%		
10.0	89%	69%	98%	70%		
5.0	77%	64%	92%	66%		
2.5	67%	60%	86%	63%		
1.25	59%	56%	81%	59%		
0.630	53%	52%	76%	56%		
0.315	47%	48%	70%	52%		
0.160	41%	44%	66%	49%		
0.080	36%	40%	61%	46%		
M.C.(%):	8%	7%	8%	8%		
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:	23	36	8	34		
% SAND:	41	25	31	21		
% FINES:	36	40	61	46		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)	SANDY SILT (ML)	SILTY GRAVEL WITH SAND (GM)		



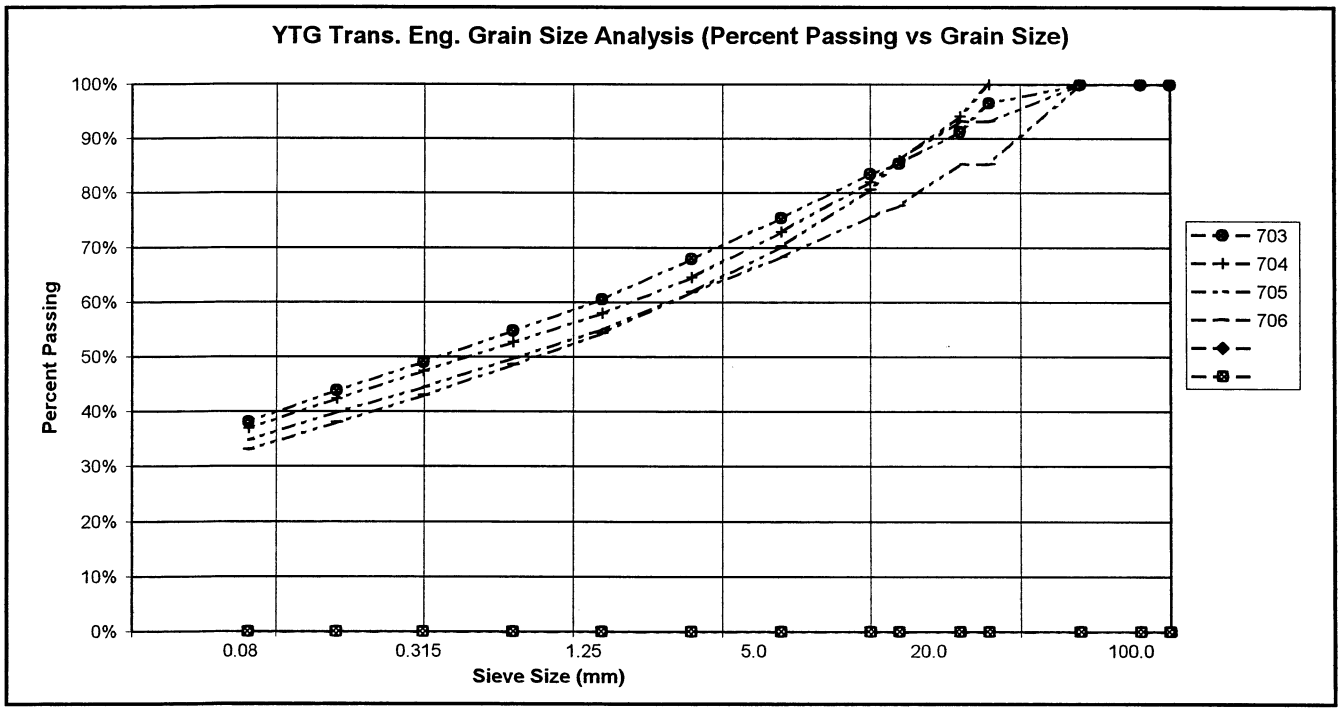
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 613-384
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	1731+632 15M LT		
LOGGED BY:	G.C.		DATE COMP: 2001/08/24

FIELD NO:	699	700	701	702		
LAB NO:	1474	1475	1476	1477		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.0-4.3		
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%	100%	100%		
20.0	96%	80%	100%	91%		
12.5	92%	75%	93%	85%		
10.0	89%	72%	88%	81%		
5.0	82%	64%	78%	73%		
2.5	74%	57%	70%	67%		
1.25	67%	52%	63%	60%		
0.630	62%	47%	57%	55%		
0.315	56%	42%	52%	50%		
0.160	51%	39%	47%	46%		
0.080	45%	34%	41%	40%		
M.C.(%):	9%	6%	7%	7%		
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:	18	36	22	27		
% SAND:	37	30	37	33		
% FINES:	45	34	41	40		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		



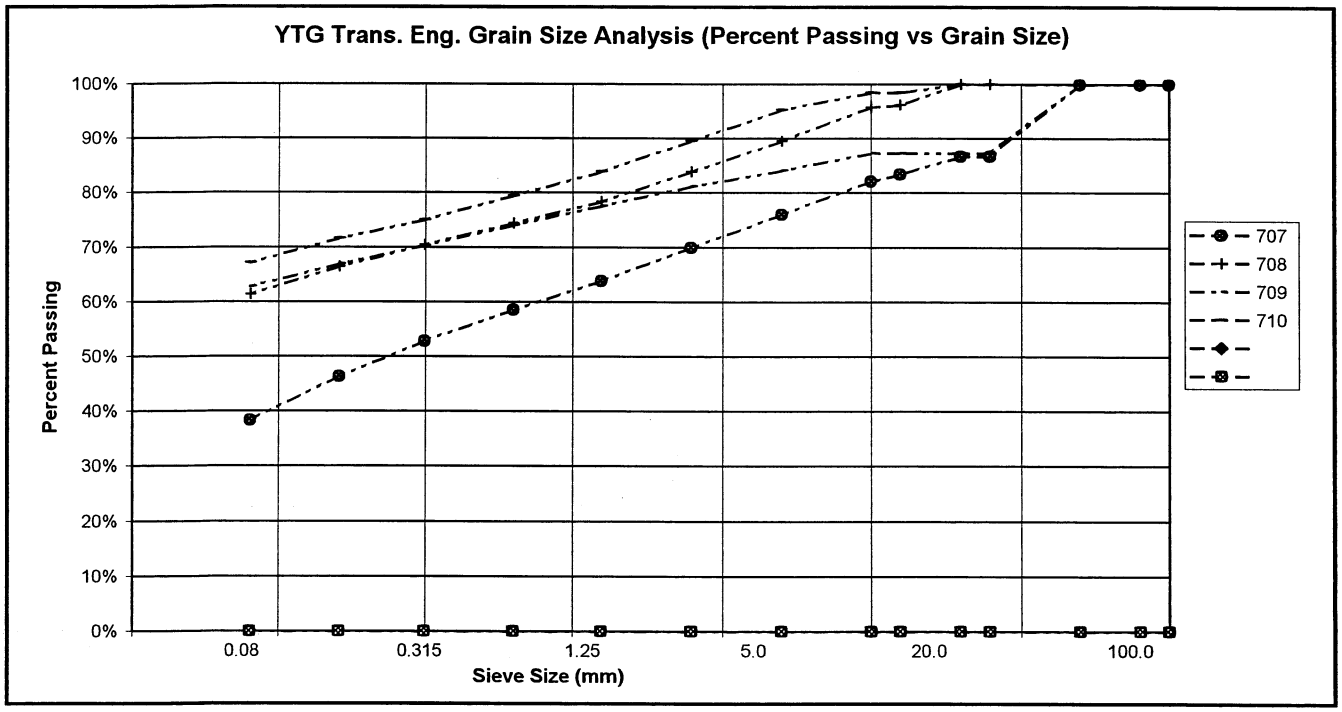
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 615-385
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/27

FIELD NO:	703	704	705	706		
LAB NO:	1478	1479	1480	1481		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.0-4.3		
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	97%	100%	85%	93%		
20.0	91%	94%	85%	93%		
12.5	85%	86%	78%	86%		
10.0	84%	82%	76%	81%		
5.0	75%	73%	68%	70%		
2.5	68%	65%	62%	62%		
1.25	61%	58%	55%	54%		
0.630	55%	53%	50%	49%		
0.315	49%	47%	45%	43%		
0.160	44%	42%	40%	38%		
0.080	38%	37%	35%	33%		
M.C.(%):	7%	5%	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:	25	27	32	30		
% SAND:	37	36	33	37		
% FINES:	38	37	35	33		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		



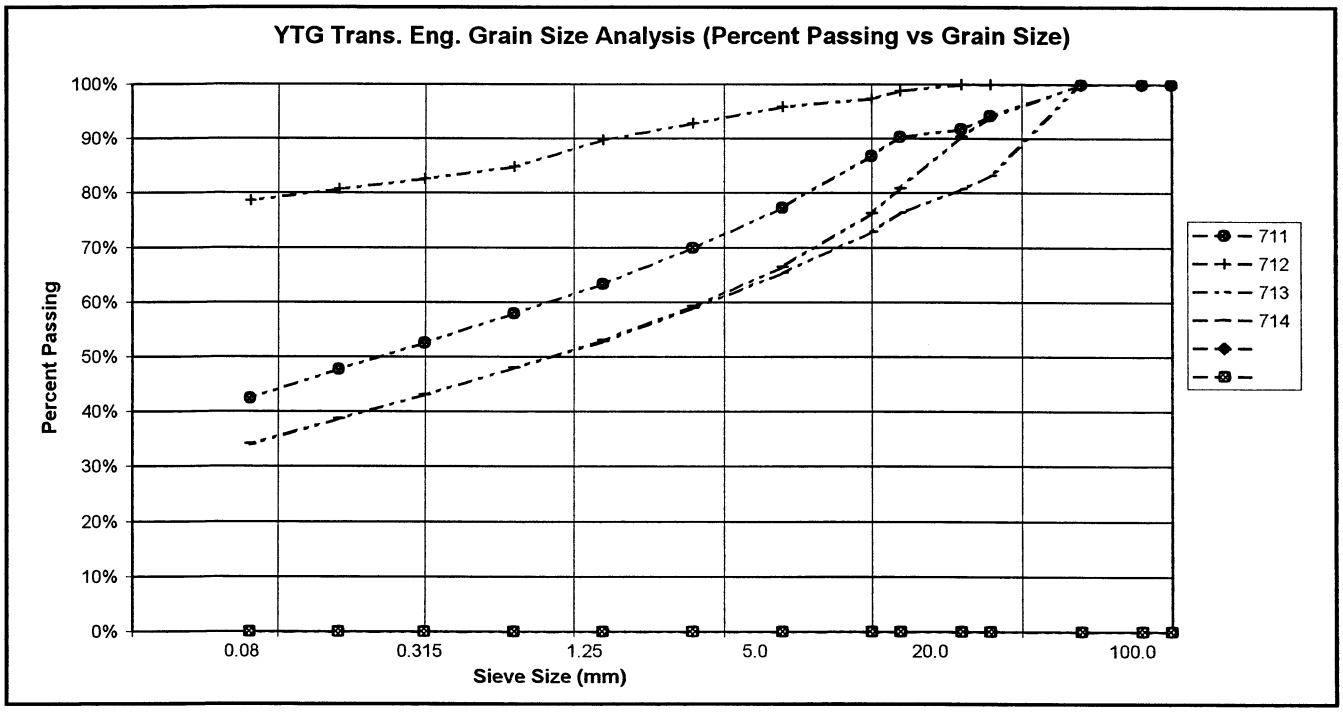
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 615-386
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/27

FIELD NO:	707	708	709	710		
LAB NO:	1482	1483	1484	1485		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.0-4.3		
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	87%	100%	87%	100%		
20.0	87%	100%	87%	100%		
12.5	83%	96%	87%	98%		
10.0	82%	96%	87%	98%		
5.0	76%	90%	84%	95%		
2.5	70%	84%	81%	90%		
1.25	64%	78%	78%	84%		
0.630	59%	74%	74%	79%		
0.315	53%	70%	70%	75%		
0.160	46%	66%	67%	72%		
0.080	38%	61%	63%	67%		
M.C.(%):	9%	10%	10%	11%		
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:	24	10	16	5		
% SAND:	38	28	21	28		
% FINES:	38	61	63	67		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)	SANDY SILT WITH GRAVEL (ML)	SANDY SILT (ML)		



PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 615-387
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/27

FIELD NO:	711	712	713	714		
LAB NO:	1486	1487	1488	1489		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.0-4.3		
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	94%	100%	83%	94%		
20.0	92%	100%	81%	90%		
12.5	90%	99%	76%	81%		
10.0	87%	97%	73%	76%		
5.0	77%	96%	65%	66%		
2.5	70%	93%	59%	59%		
1.25	63%	90%	53%	53%		
0.630	58%	85%	48%	48%		
0.315	53%	83%	43%	43%		
0.160	48%	81%	39%	39%		
0.080	43%	79%	34%	34%		
M.C.(%):	10%	9%	6%	6%		
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:	23	4	35	34		
% SAND:	35	17	31	32		
% FINES:	43	79	34	34		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILT WITH SAND (ML)	SILTY GRAVEL WITH SAND (GM)	SILTY GRAVEL WITH SAND (GM)		

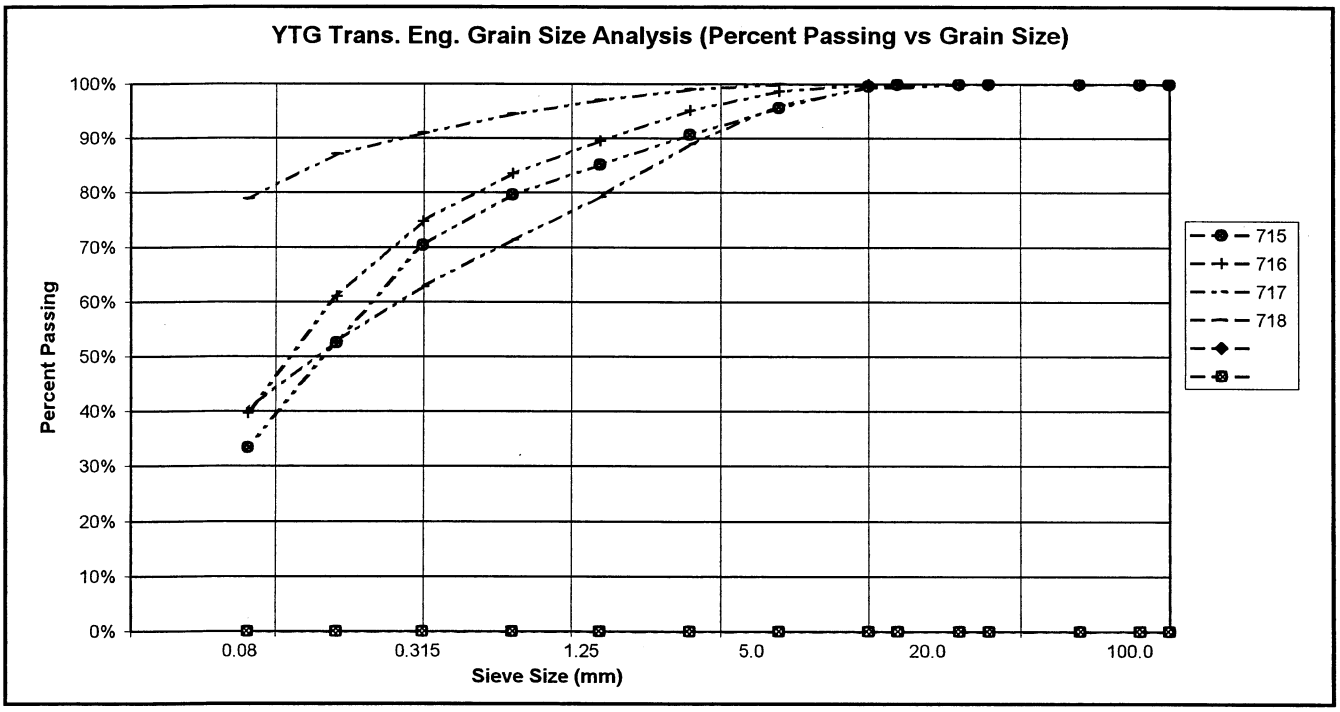


PROJECT NUMBER: 092-202101-0361-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 11
PROJECT LOCATION: Km 1729.6-1787 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: See Testhole Log Sheet
LOGGED BY: G.C.

HOLE No.: 615-388

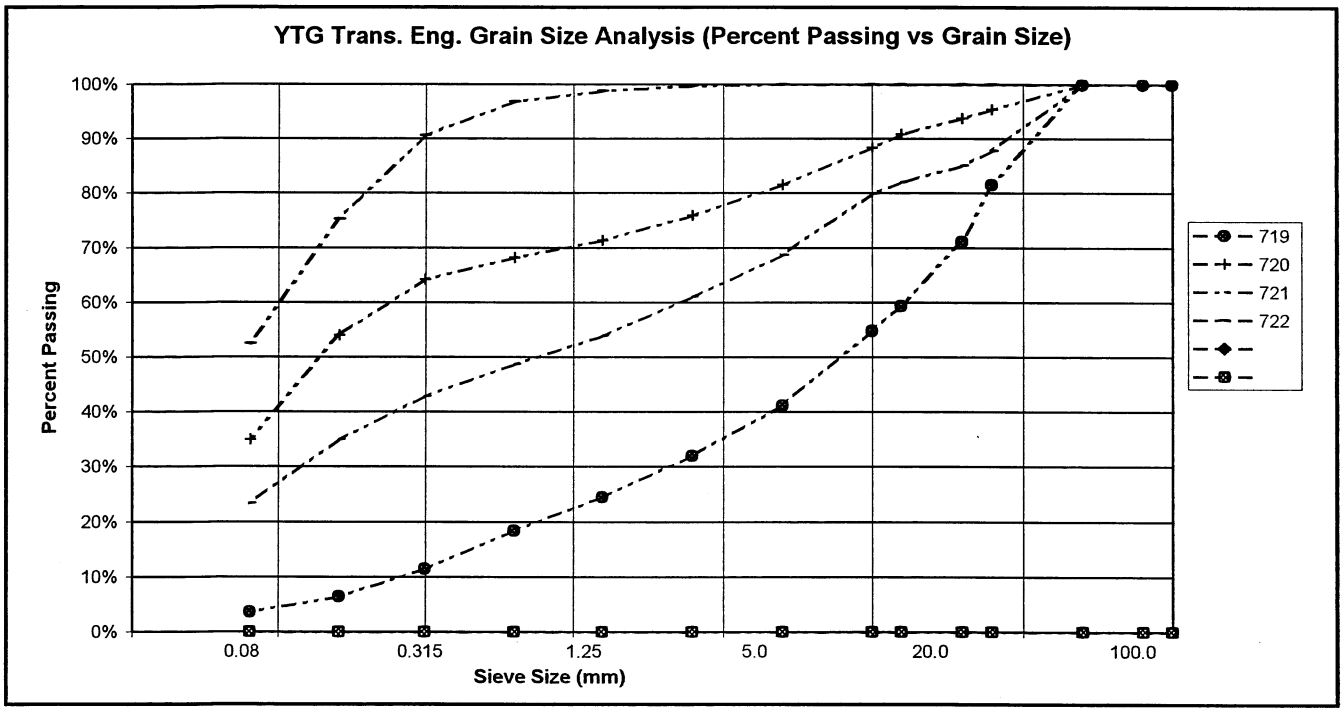
DATE COMP: 2001/08/27

FIELD NO:	715	716	717	718		
LAB NO:	1490	1491	1492	1493		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.0-4.3		
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%	100%		
20.0	100%	100%	100%	100%		
12.5	100%	100%	99%	100%		
10.0	100%	100%	99%	100%		
5.0	96%	99%	96%	100%		
2.5	91%	95%	89%	99%		
1.25	85%	90%	79%	97%		
0.630	80%	84%	71%	95%		
0.315	70%	75%	63%	91%		
0.160	53%	61%	53%	87%		
0.080	33%	40%	40%	79%		
M.C.(%):	12%	4%	7%	23%		
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:	4	1	4	0		
% SAND:	62	59	56	21		
% FINES:	33	40	40	79		
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND (SM)	SILTY SAND (SM)	SILT WITH SAND (ML)		



PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 615-389
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/27

FIELD NO:	719	720	721	722		
LAB NO:	1494	1495	1496	1497		
DEPTH:	0.8-1.0	1.6-2.0	2.8-3.0	4.0-4.3		
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	82%	95%	88%	100%		
20.0	71%	94%	85%	100%		
12.5	59%	91%	82%	100%		
10.0	55%	88%	80%	100%		
5.0	41%	82%	69%	100%		
2.5	32%	76%	61%	100%		
1.25	24%	71%	54%	99%		
0.630	18%	68%	49%	97%		
0.315	11%	64%	43%	91%		
0.160	6%	54%	35%	75%		
0.080	4%	35%	23%	52%		
M.C.(%):	3%	5%	5%	15%		
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:	59	18	31	0		
% SAND:	38	47	45	48		
% FINES:	4	35	23	52		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)		

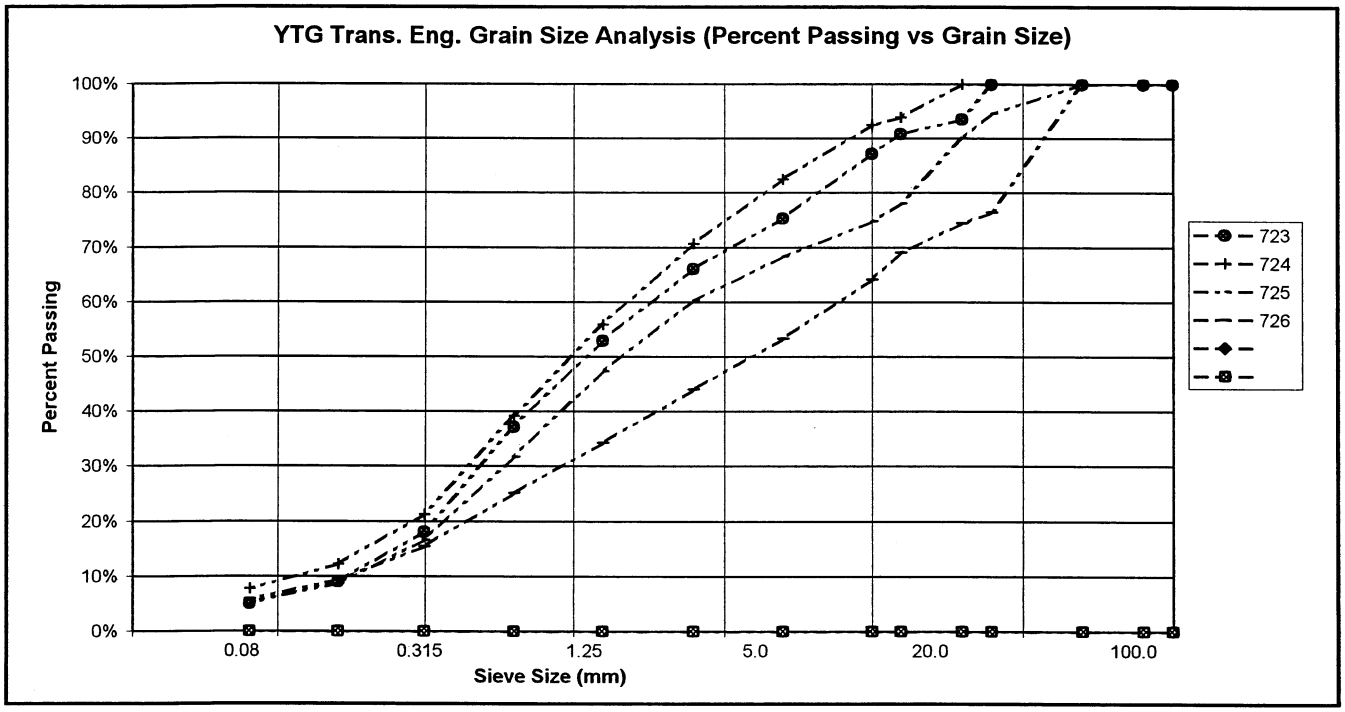


PROJECT NUMBER: 092-202101-0361-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 11
PROJECT LOCATION: Km 1729.6-1787 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: See Testhole Log Sheet
LOGGED BY: G.C.

HOLE No.: 615-390

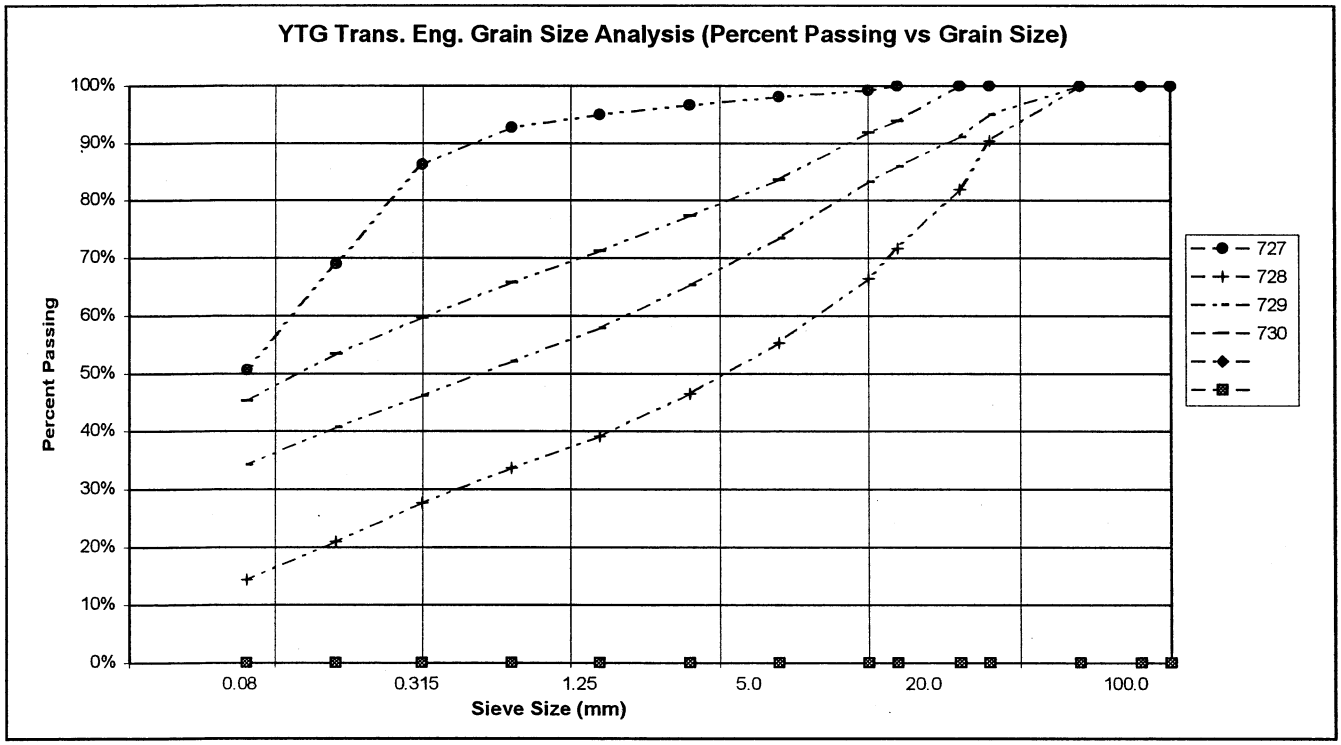
DATE COMP: 2001/08/27

FIELD NO:	723	724	725	726		
LAB NO:	1498	1499	1500	1501		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.0-4.3		
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%	95%	76%		
20.0	94%	100%	90%	74%		
12.5	91%	94%	78%	69%		
10.0	87%	93%	75%	64%		
5.0	75%	83%	68%	53%		
2.5	66%	71%	60%	44%		
1.25	53%	56%	47%	34%		
0.630	37%	39%	32%	25%		
0.315	18%	21%	17%	15%		
0.160	9%	12%	9%	9%		
0.080	5%	8%	5%	6%		
M.C.(%):	4%	4%	3%	3%		
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:	25	17	32	47		
% SAND:	70	75	63	47		
% FINES:	5	8	5	6		
CLASSIFICATION	POORLY GRADED SAND WITH SILT & GRAVEL (SP-SM)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)		



PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 615-391
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/27

FIELD NO:	727	728	729	730		
LAB NO:	1502	1503	1504	1505		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.2	4.0-4.3		
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%	90%	95%	100%		
20.0	100%	82%	91%	100%		
12.5	100%	72%	86%	94%		
10.0	99%	66%	83%	92%		
5.0	98%	55%	73%	84%		
2.5	97%	47%	65%	77%		
1.25	95%	39%	58%	71%		
0.630	93%	34%	52%	66%		
0.315	86%	28%	46%	60%		
0.160	69%	21%	41%	53%		
0.080	51%	14%	34%	45%		
M.C.(%):	19%	7%	8%	10%		
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	45	27	16		
% SAND:	47	41	39	38		
% FINES:	51	14	34	45		
CLASSIFICATION	SANDY SILT (ML)	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

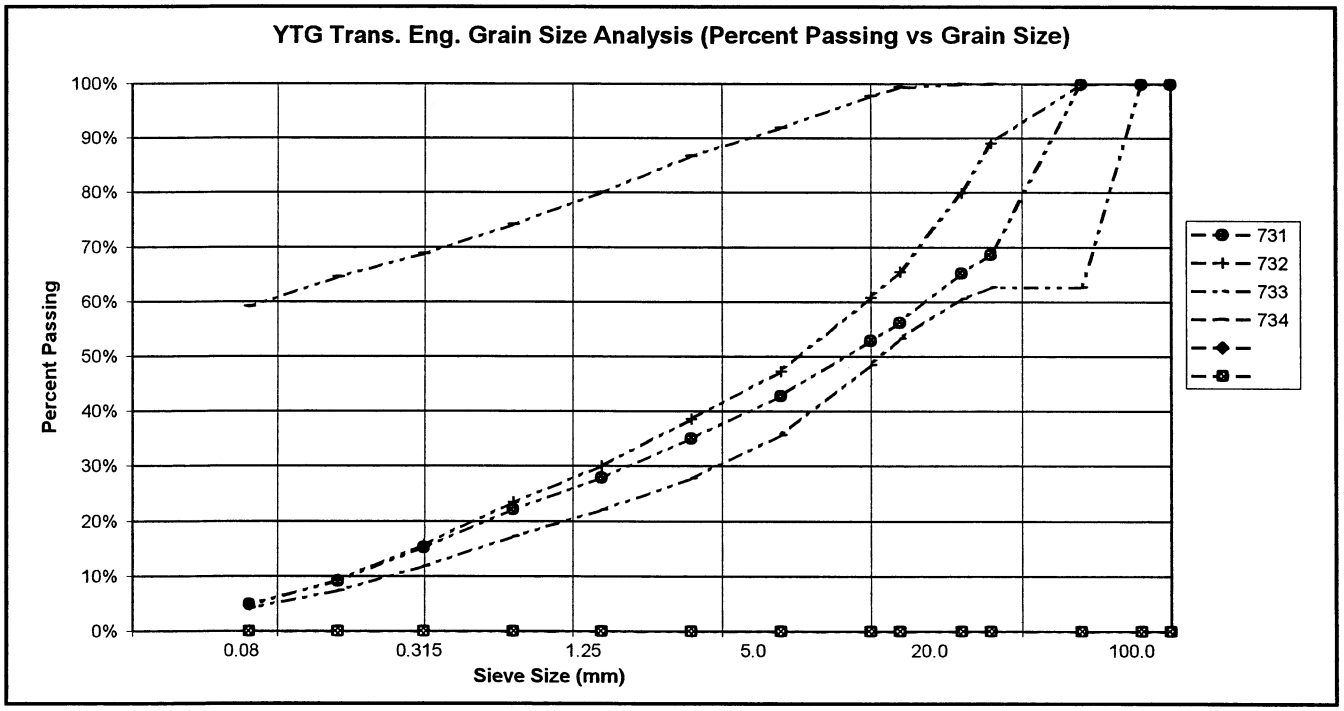


PROJECT NUMBER: 092-202101-0361-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 11
PROJECT LOCATION: Km 1729.6-1787 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: See Testhole Log Sheet
LOGGED BY: G.C.

HOLE No.: 615-392

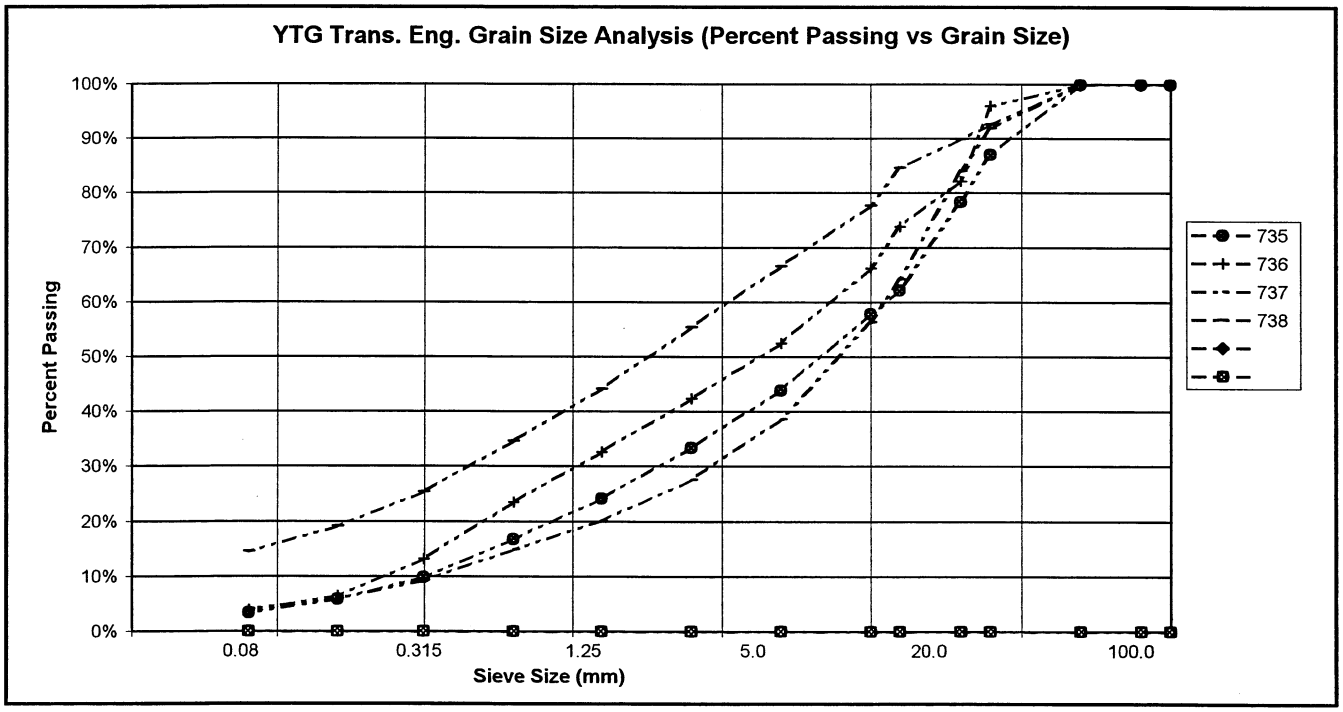
DATE COMP: 2001/08/27

FIELD NO:	731	732	733	734		
LAB NO:	1506	1507	1508	1509		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.2		
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%	63%	100%		
25.0	69%	89%	63%	100%		
20.0	65%	80%	61%	100%		
12.5	56%	66%	53%	99%		
10.0	53%	61%	48%	98%		
5.0	43%	47%	36%	92%		
2.5	35%	39%	28%	87%		
1.25	28%	30%	22%	80%		
0.630	22%	23%	17%	74%		
0.315	15%	16%	12%	69%		
0.160	9%	9%	7%	65%		
0.080	5%	5%	4%	59%		
M.C.(%):	3%	4%	3%	17%		
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:	57	53	64	8		
% SAND:	38	43	31	33		
% FINES:	5	5	4	59		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SAND (GP)	SANDY SILT (ML)		



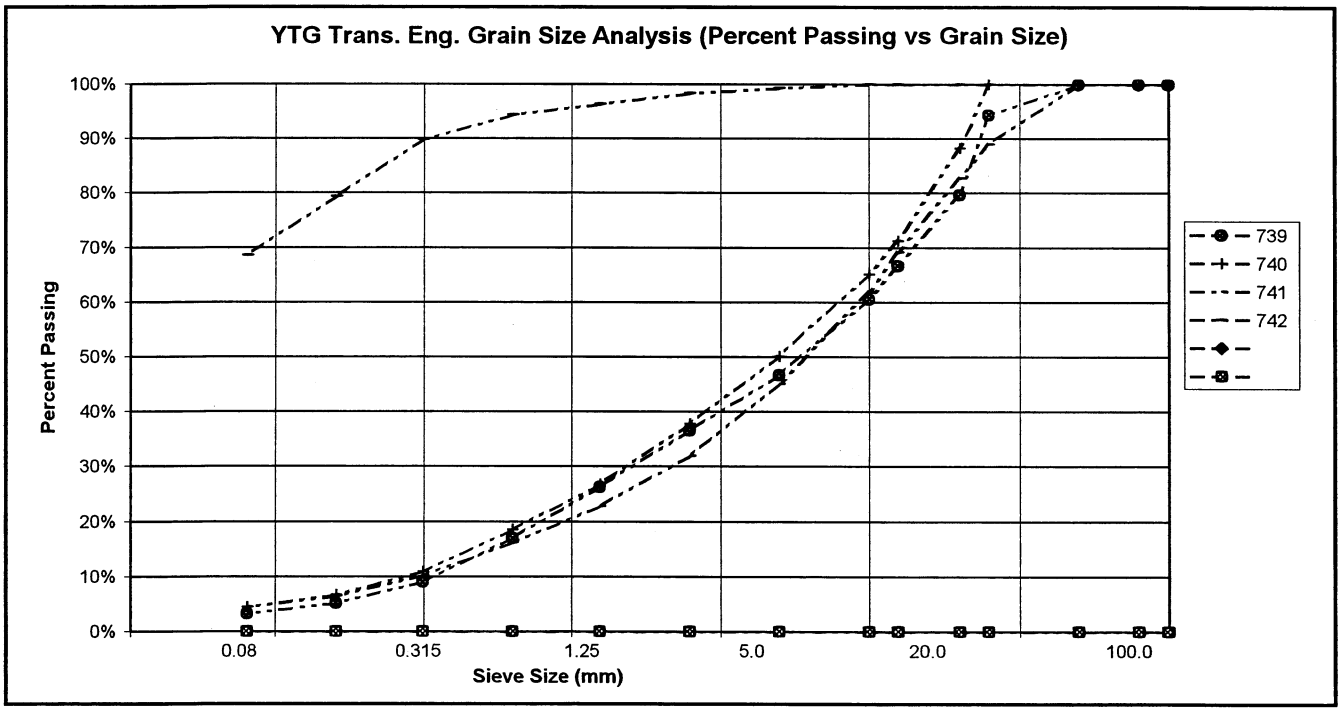
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 615-393
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/27

FIELD NO:	735	736	737	738		
LAB NO:	1510	1511	1512	1513		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	4.0-4.3		
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	87%	96%	92%	93%		
20.0	78%	82%	84%	90%		
12.5	62%	74%	64%	85%		
10.0	58%	66%	56%	78%		
5.0	44%	52%	39%	67%		
2.5	33%	42%	28%	55%		
1.25	24%	33%	20%	44%		
0.630	17%	23%	15%	35%		
0.315	10%	13%	9%	25%		
0.160	6%	6%	6%	19%		
0.080	3%	4%	4%	15%		
M.C.(%):	3%	4%	3%	6%		
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:	56	48	61	33		
% SAND:	40	49	34	52		
% FINES:	3	4	4	15		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	WELL-GRADED SAND WITH GRAVEL (SW)	POORLY GRADED GRAVEL WITH SAND (GP)	SILTY SAND WITH GRAVEL (SM)		



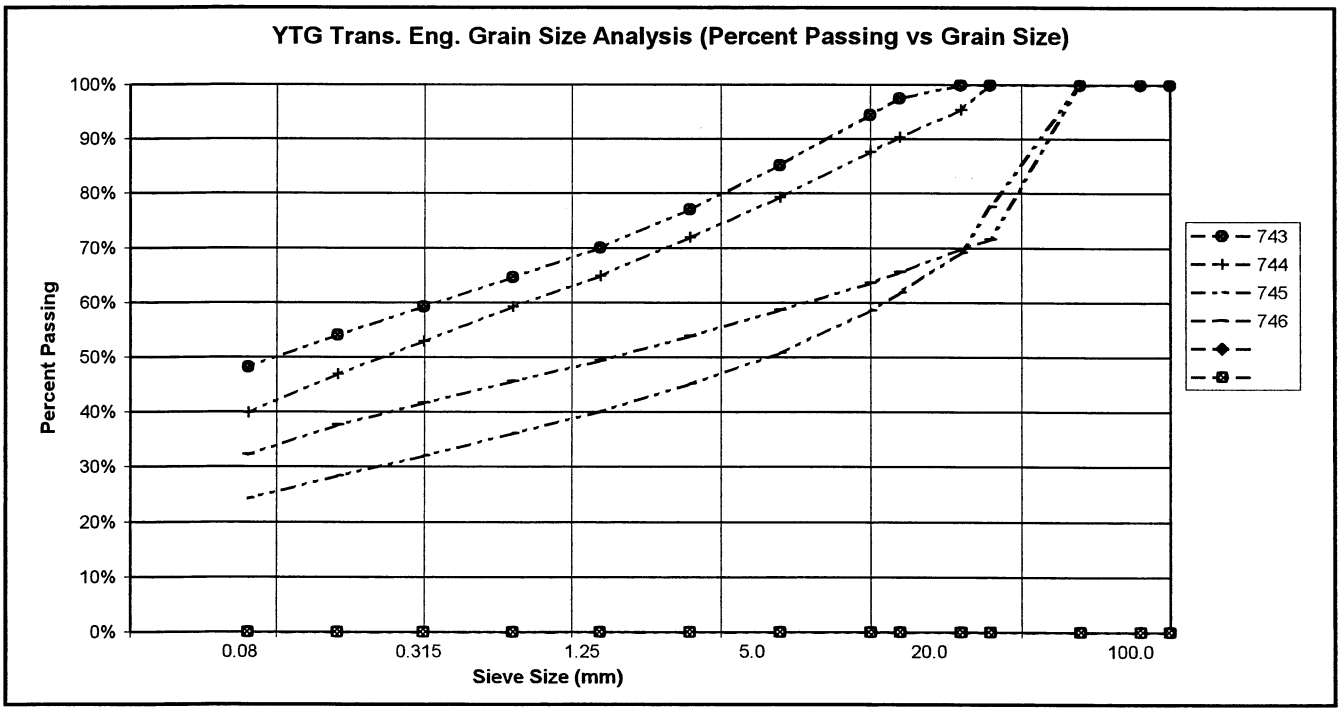
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 615-394
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/27

FIELD NO:	739	740	741	742		
LAB NO:	1514	1515	1516	1517		
DEPTH:	0.75-1.0	1.6-2.0	2.6-3.0	4.0-4.3		
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	94%	100%	89%	100%		
20.0	80%	88%	83%	100%		
12.5	67%	71%	69%	100%		
10.0	61%	65%	62%	100%		
5.0	47%	50%	45%	99%		
2.5	37%	38%	32%	98%		
1.25	26%	27%	23%	96%		
0.630	17%	19%	16%	94%		
0.315	9%	11%	10%	90%		
0.160	5%	7%	7%	79%		
0.080	3%	4%	5%	69%		
M.C.(%):	3%	3%	3%	30%		
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:	53	50	55	1		
% SAND:	43	46	41	31		
% FINES:	3	4	5	69		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SAND (GP)	SANDY SILT (ML)		



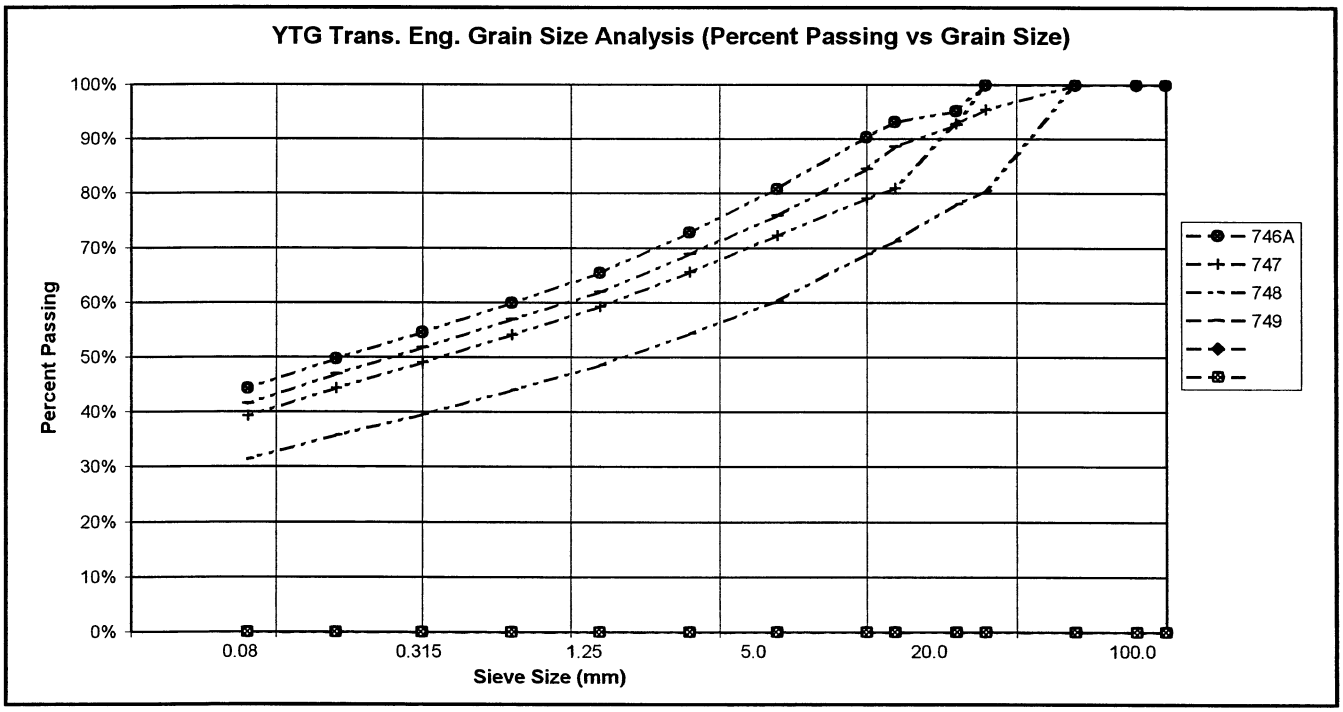
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 615-395
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/27

FIELD NO:	743	744	745	746		
LAB NO:	1518	1519	1520	1521		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	4.0-4.3		
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%	78%	72%		
20.0	100%	95%	69%	70%		
12.5	98%	90%	62%	66%		
10.0	94%	88%	59%	64%		
5.0	85%	79%	51%	59%		
2.5	77%	72%	45%	54%		
1.25	70%	65%	40%	49%		
0.630	65%	59%	36%	46%		
0.315	59%	53%	32%	42%		
0.160	54%	47%	28%	38%		
0.080	48%	40%	24%	32%		
M.C.(%):	10%	6%	4%	4%		
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:	15	21	49	41		
% SAND:	37	40	27	26		
% FINES:	48	40	24	32		
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)	SILTY GRAVEL WITH SAND (GM)		



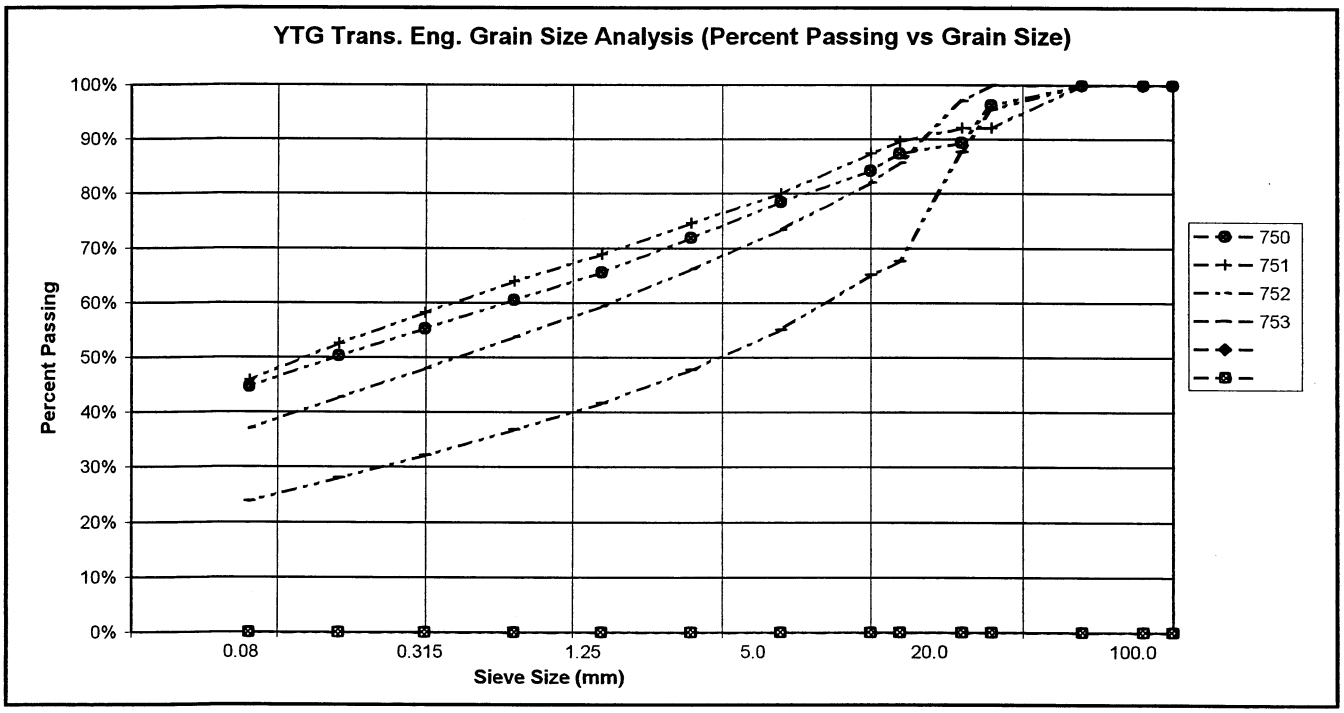
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 615-396
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/27

FIELD NO:	746A	747	748	749		
LAB NO:	1522	1523	1524	1525		
DEPTH:	0.8-1.0	1.6-2.0	2.6-3.0	4.0-4.3		
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%	95%	81%	100%		
20.0	95%	93%	78%	93%		
12.5	93%	81%	71%	89%		
10.0	90%	79%	69%	85%		
5.0	81%	72%	60%	76%		
2.5	73%	66%	54%	69%		
1.25	66%	59%	49%	62%		
0.630	60%	54%	44%	57%		
0.315	55%	49%	40%	52%		
0.160	50%	44%	36%	47%		
0.080	44%	39%	31%	41%		
M.C.(%):	11%	6%	5%	7%		
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:	19	28	40	24		
% SAND:	36	33	29	34		
% FINES:	44	39	31	41		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)		



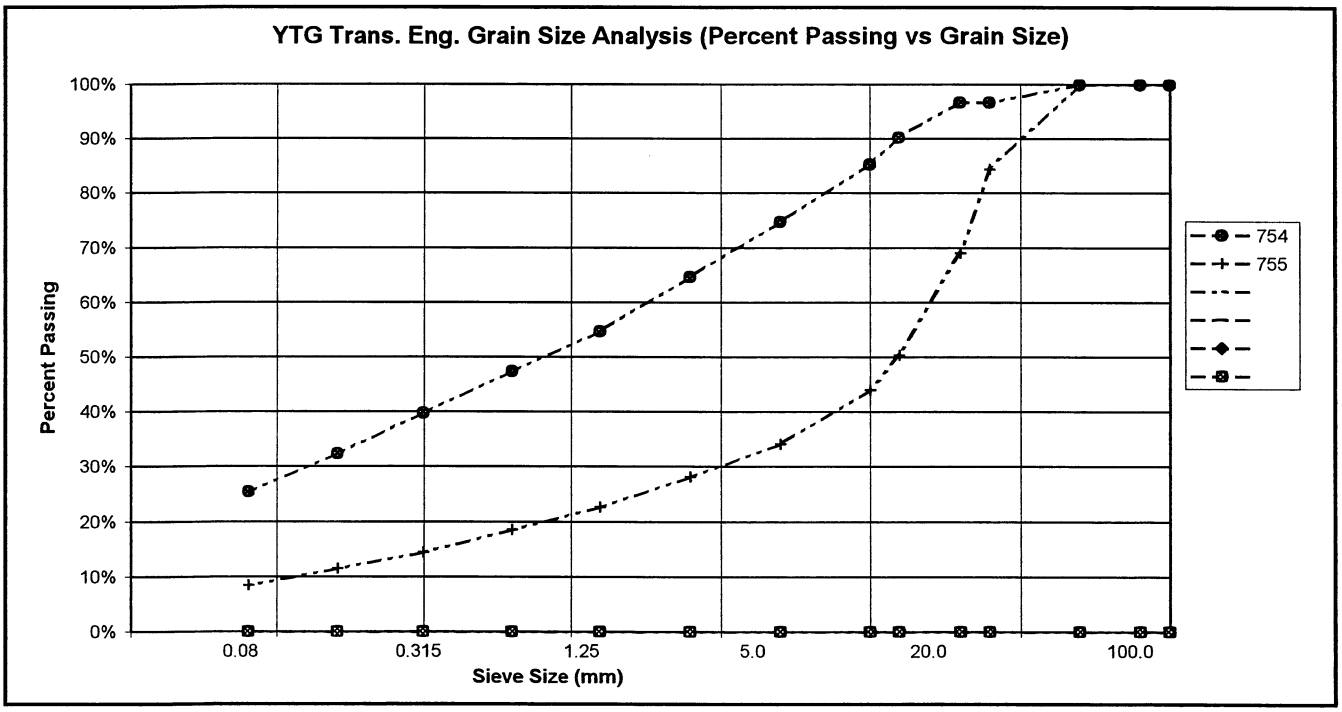
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 615-397
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/27

FIELD NO:	750	751	752	753		
LAB NO:	1526	1527	1528	1529		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	4.0-4.3		
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	96%	92%	100%	96%		
20.0	89%	92%	97%	88%		
12.5	87%	90%	86%	68%		
10.0	84%	87%	82%	65%		
5.0	79%	80%	73%	55%		
2.5	72%	75%	66%	48%		
1.25	66%	69%	59%	42%		
0.630	61%	64%	54%	37%		
0.315	55%	58%	48%	32%		
0.160	50%	53%	43%	28%		
0.080	45%	46%	37%	24%		
M.C.(%):	14%	9%	7%	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:	21	20	27	45		
% SAND:	34	34	36	31		
% FINES:	45	46	37	24		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)		



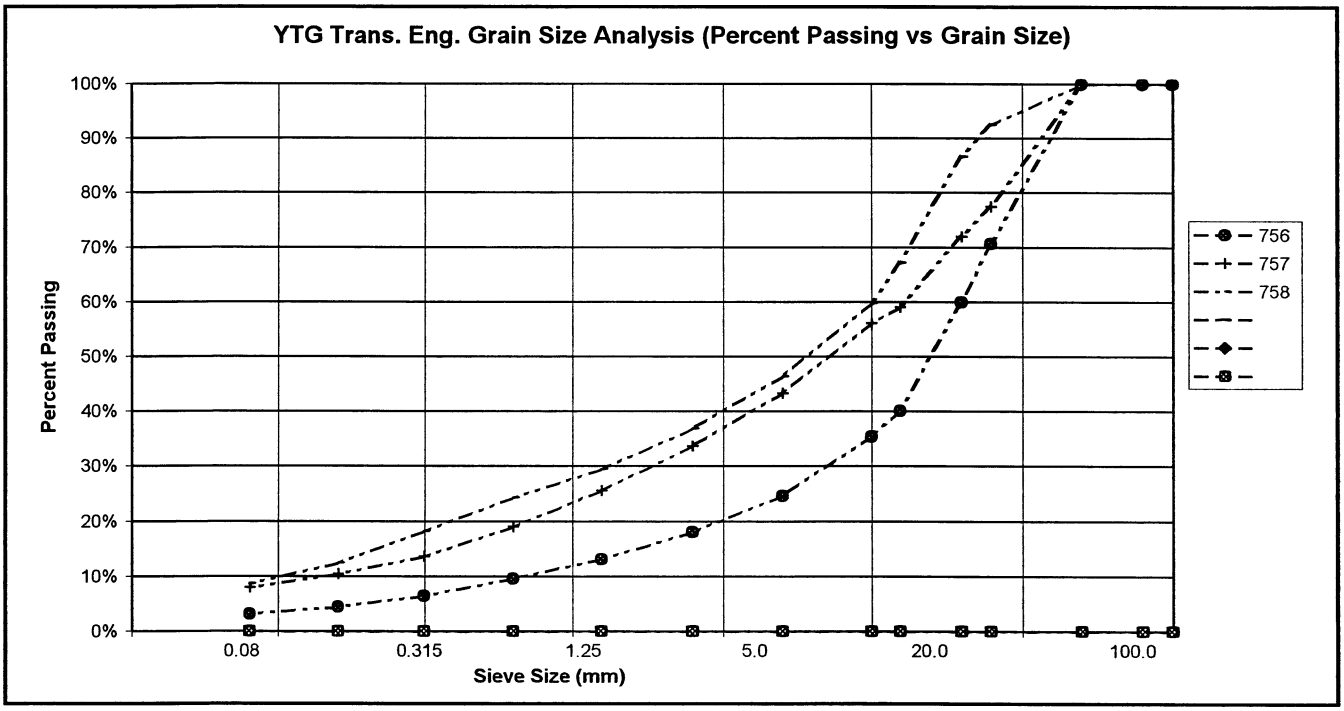
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 615-398
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/27

FIELD NO:	754	755				
LAB NO:	1530	1531				
DEPTH:	2.0-3.0	3.0-4.0				
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	97%	84%				
20.0	97%	69%				
12.5	90%	50%				
10.0	85%	44%				
5.0	75%	34%				
2.5	65%	28%				
1.25	55%	23%				
0.630	47%	19%				
0.315	40%	14%				
0.160	32%	11%				
0.080	25%	8%				
M.C.(%):	8%	4%				
LIQUID LIMIT:	0.0	0.0				
PLASTIC LIMIT:	0.0	0.0				
PLASTIC INDEX.:	0.0	0.0				
% GRAVEL:	25	66				
% SAND:	49	26				
% FINES:	25	8				
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)				



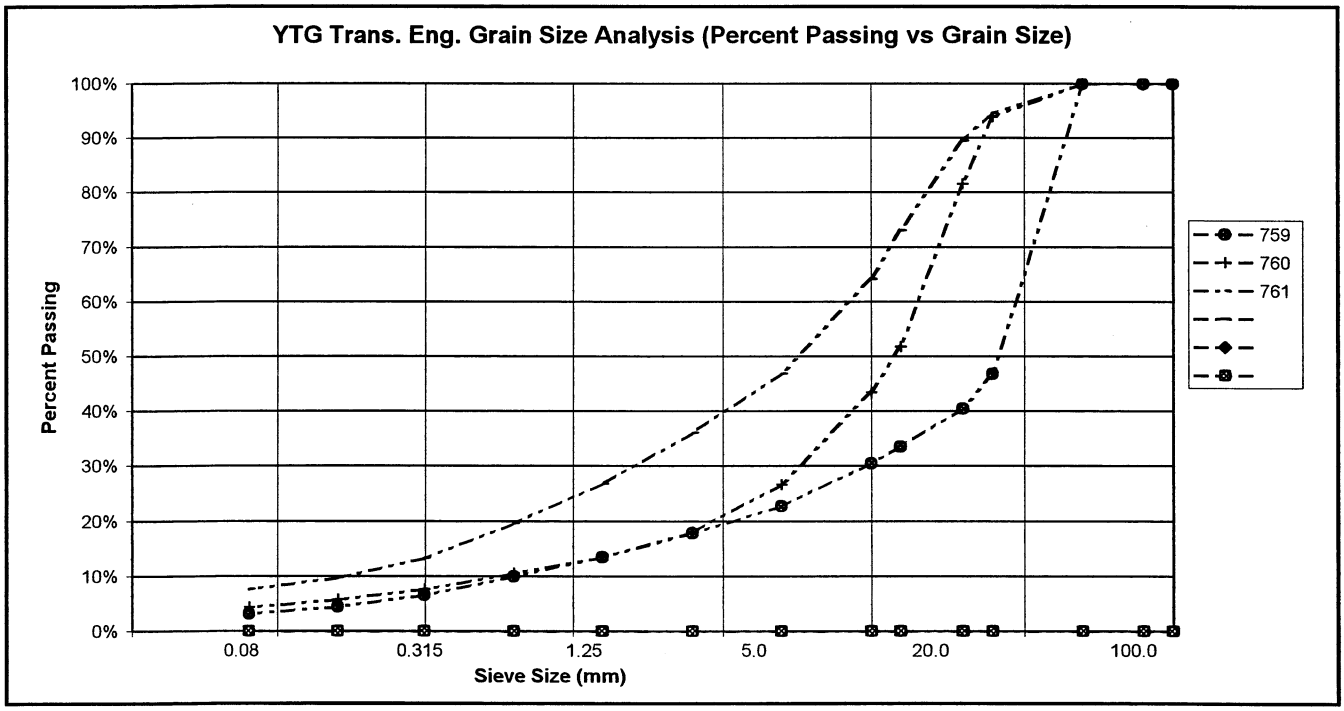
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 615-399
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/27

FIELD NO:	756	757	758			
LAB NO:	1532	1533	1534			
DEPTH:	1.0-1.5	2.4-3.0	3.6-4.3			
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	71%	77%	92%			
20.0	60%	72%	87%			
12.5	40%	59%	67%			
10.0	35%	56%	60%			
5.0	25%	43%	46%			
2.5	18%	34%	37%			
1.25	13%	26%	29%			
0.630	10%	19%	24%			
0.315	6%	14%	18%			
0.160	4%	10%	12%			
0.080	3%	8%	9%			
M.C.(%):	2%	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:	75	57	54			
% SAND:	22	35	38			
% FINES:	3	8	9			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)			



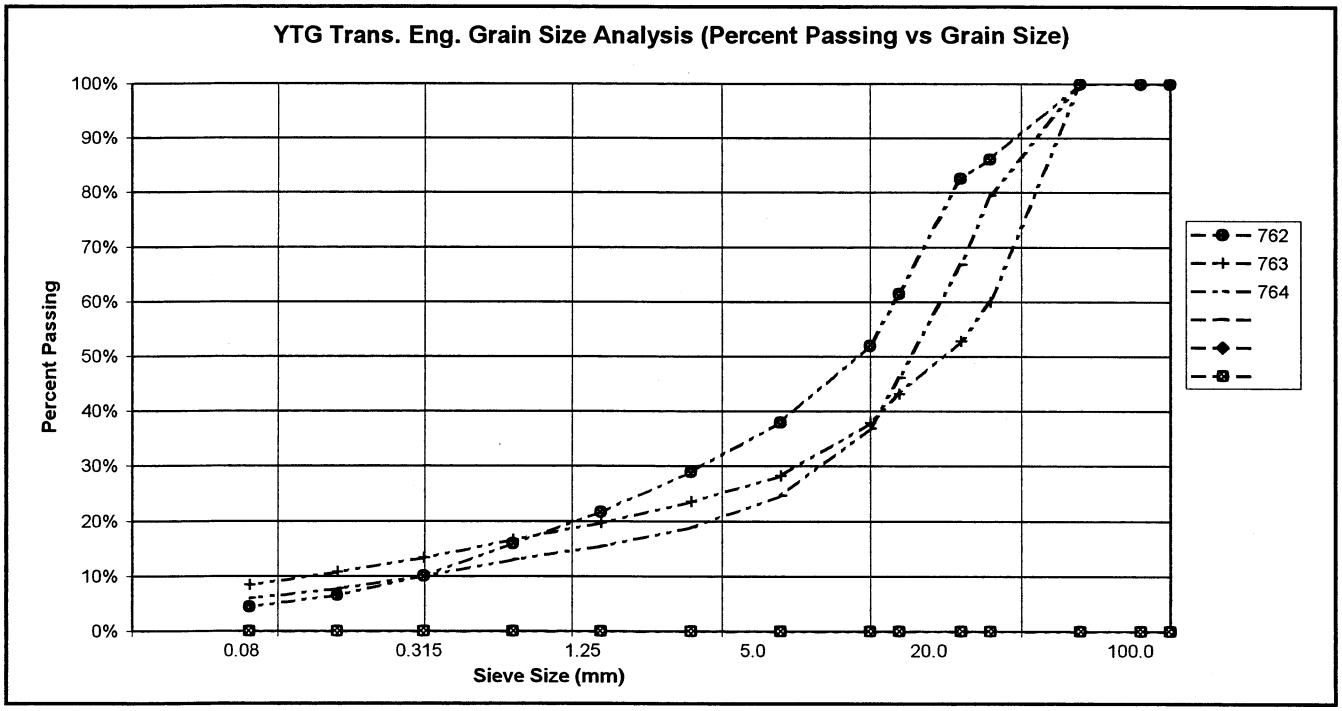
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 615-400
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/27

FIELD NO:	759	760	761			
LAB NO:	1535	1536	1537			
DEPTH:	1.0-1.5	2.6-3.0	4.0-4.3			
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	47%	94%	95%			
20.0	41%	82%	89%			
12.5	34%	52%	73%			
10.0	31%	43%	64%			
5.0	23%	27%	47%			
2.5	18%	18%	36%			
1.25	13%	13%	27%			
0.630	10%	11%	20%			
0.315	7%	8%	13%			
0.160	4%	6%	10%			
0.080	3%	4%	8%			
M.C.(%):	2%	2%	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:	77	73	53			
% SAND:	20	22	39			
% FINES:	3	4	8			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	WELL-GRADED GRAVEL WITH SAND (GW)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)			



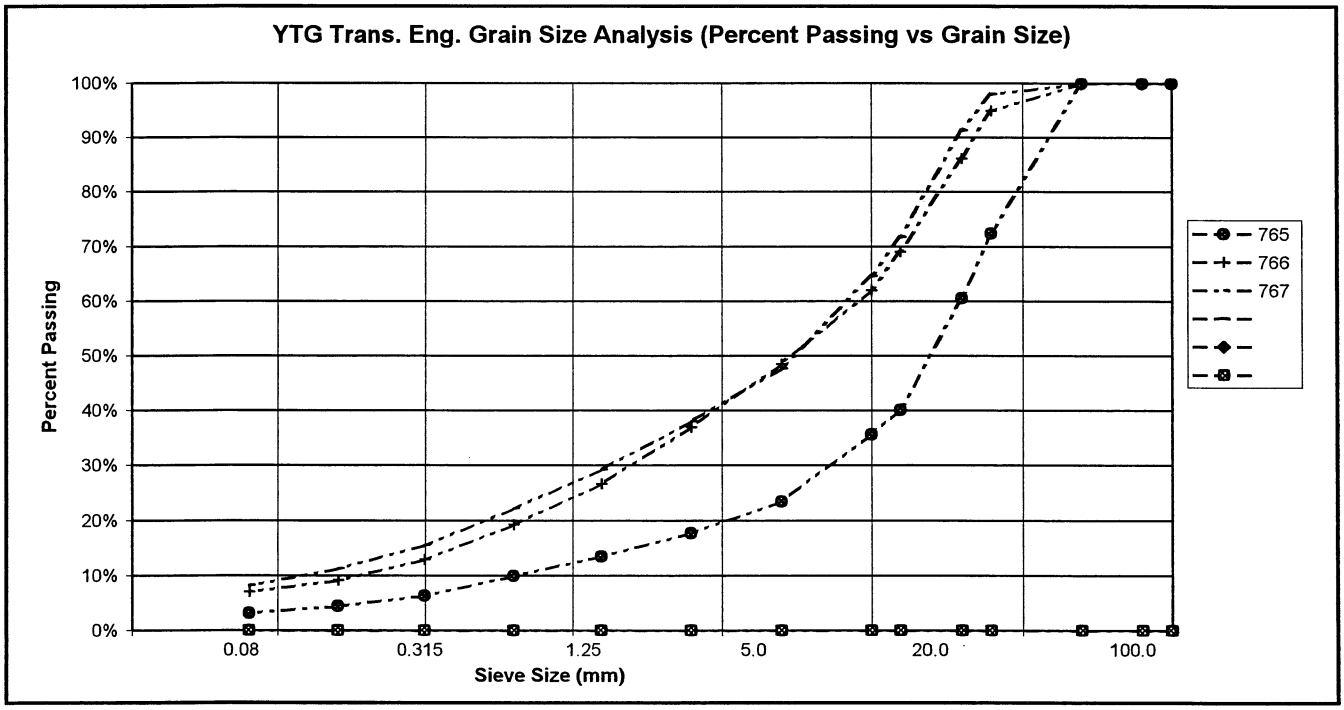
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 615-401
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/27

FIELD NO:	762	763	764			
LAB NO:	1538	1539	1540			
DEPTH:	1.0-1.5	2.6-3.0	4.0-4.3			
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%	60%	79%			
20.0	83%	53%	67%			
12.5	62%	43%	46%			
10.0	52%	38%	37%			
5.0	38%	28%	25%			
2.5	29%	24%	19%			
1.25	22%	20%	16%			
0.630	16%	17%	13%			
0.315	10%	13%	10%			
0.160	7%	11%	8%			
0.080	4%	8%	6%			
M.C.(%):	3%	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:	62	72	75			
% SAND:	34	20	19			
% FINES:	4	8	6			
CLASSIFICATION	WELL-GRADED GRAVEL WITH SAND (GW)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)			



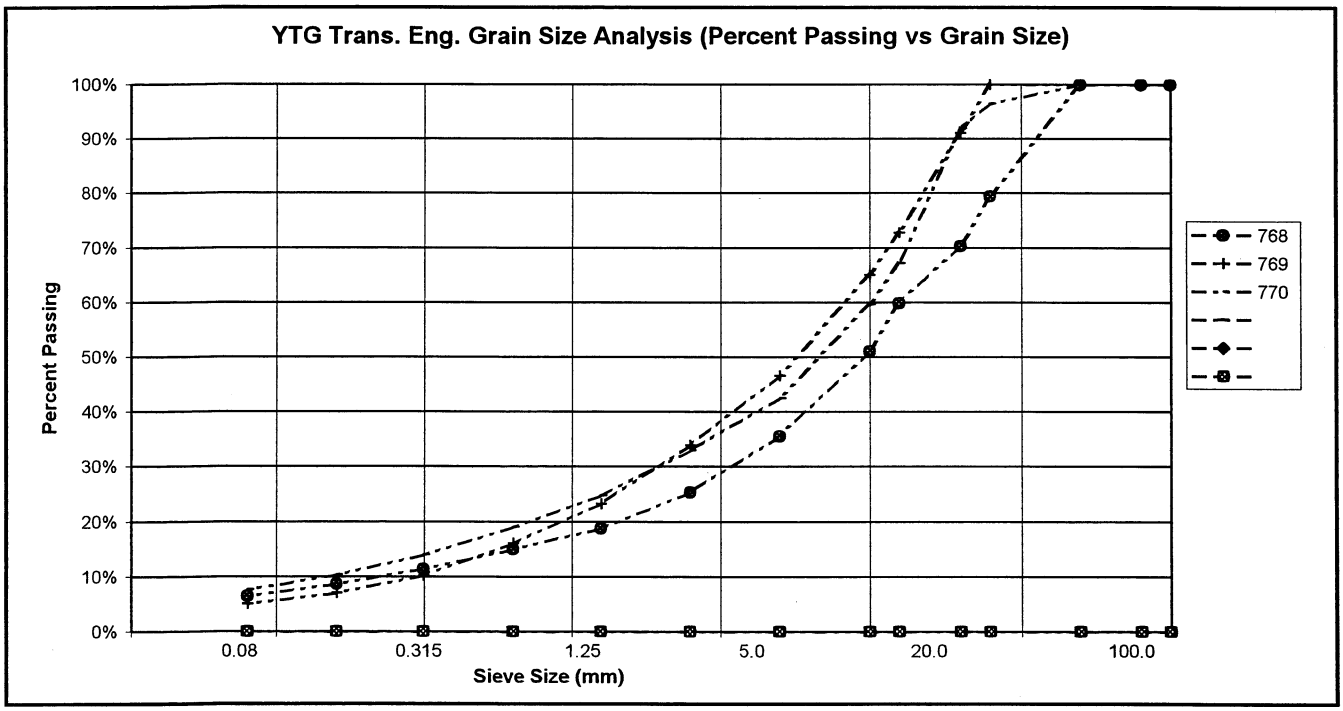
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 615-402
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/27

FIELD NO:	765	766	767			
LAB NO:	1541	1542	1543			
DEPTH:	1.0-1.5	2.6-3.0	3.8-4.3			
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	72%	95%	98%			
20.0	61%	86%	91%			
12.5	40%	69%	72%			
10.0	36%	62%	65%			
5.0	23%	48%	48%			
2.5	18%	37%	38%			
1.25	14%	27%	29%			
0.630	10%	19%	22%			
0.315	6%	13%	15%			
0.160	4%	9%	11%			
0.080	3%	7%	8%			
M.C.(%):	3%	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:	77	52	52			
% SAND:	20	41	39			
% FINES:	3	7	8			
CLASSIFICATION	WELL-GRADED GRAVEL WITH SAND (GW)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)			



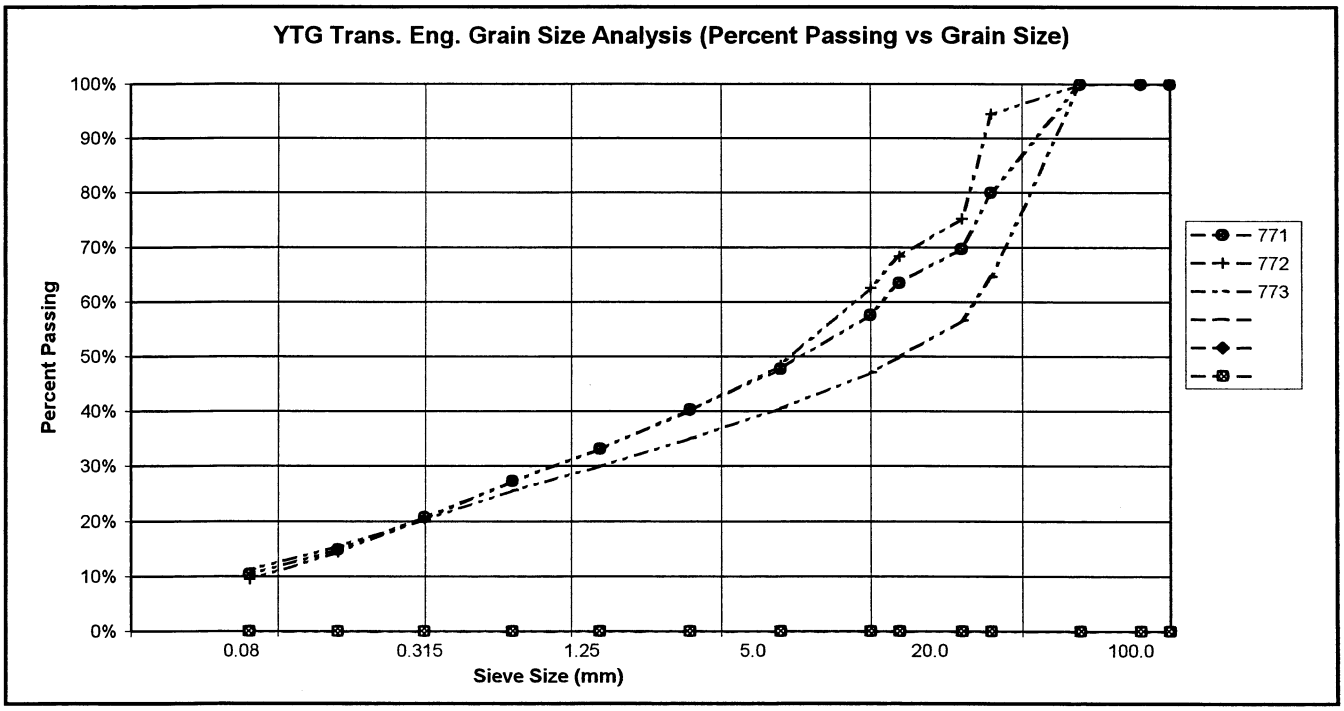
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 615-403
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/27

FIELD NO:	768	769	770			
LAB NO:	1544	1545	1546			
DEPTH:	1.0-1.5	2.0-2.5	4.0-4.3			
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	79%	100%	96%			
20.0	70%	91%	92%			
12.5	60%	73%	67%			
10.0	51%	65%	60%			
5.0	36%	47%	43%			
2.5	25%	34%	33%			
1.25	19%	23%	25%			
0.630	15%	16%	19%			
0.315	11%	10%	14%			
0.160	9%	7%	10%			
0.080	6%	5%	8%			
M.C.(%):	3%	3%	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:	64	53	57			
% SAND:	29	42	35			
% FINES:	6	5	8			
CLASSIFICATION	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)			



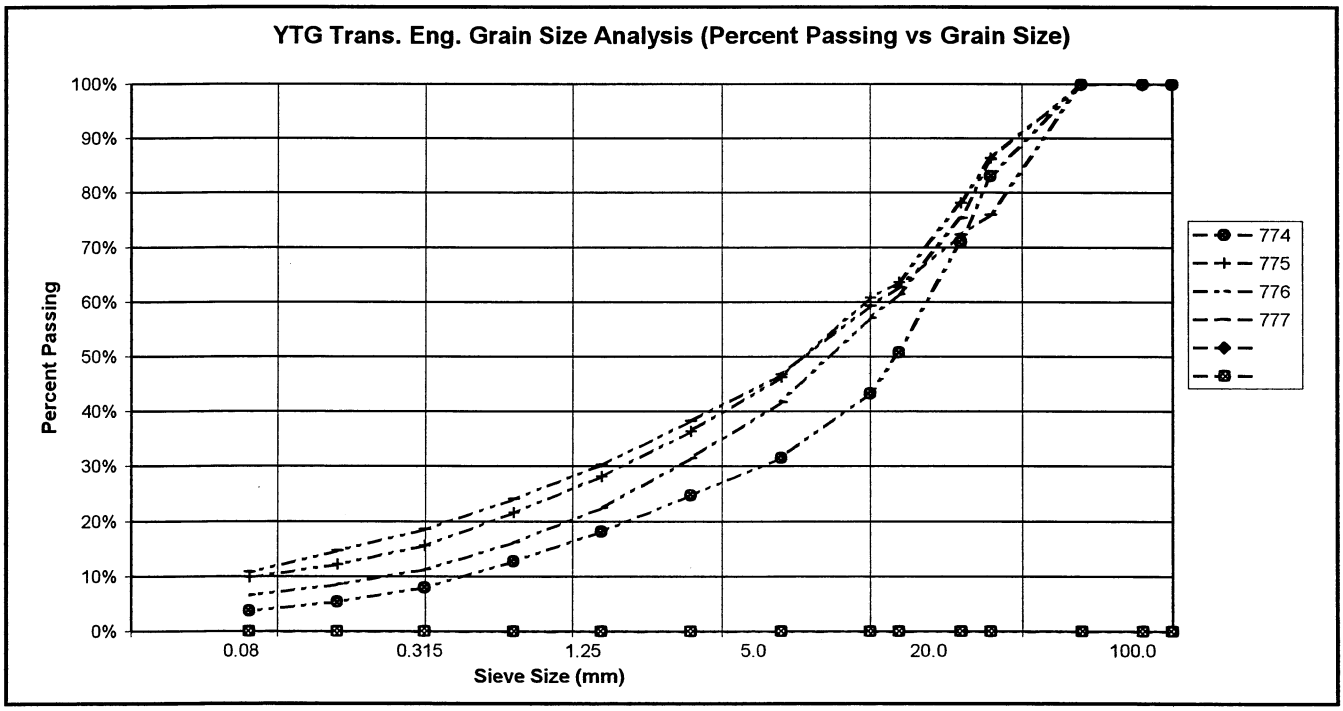
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 615-404
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/28

FIELD NO:	771	772	773			
LAB NO:	1547	1548	1549			
DEPTH:	1.0-1.5	2.5-3.0	4.0-4.3			
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	80%	94%	65%			
20.0	70%	75%	57%			
12.5	64%	68%	50%			
10.0	58%	63%	47%			
5.0	48%	48%	41%			
2.5	40%	40%	35%			
1.25	33%	33%	30%			
0.630	27%	27%	26%			
0.315	21%	20%	20%			
0.160	15%	14%	16%			
0.080	10%	10%	11%			
M.C.(%):	7%	6%	8%			
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:	52	52	59			
% SAND:	37	39	29			
% FINES:	10	10	11			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)			



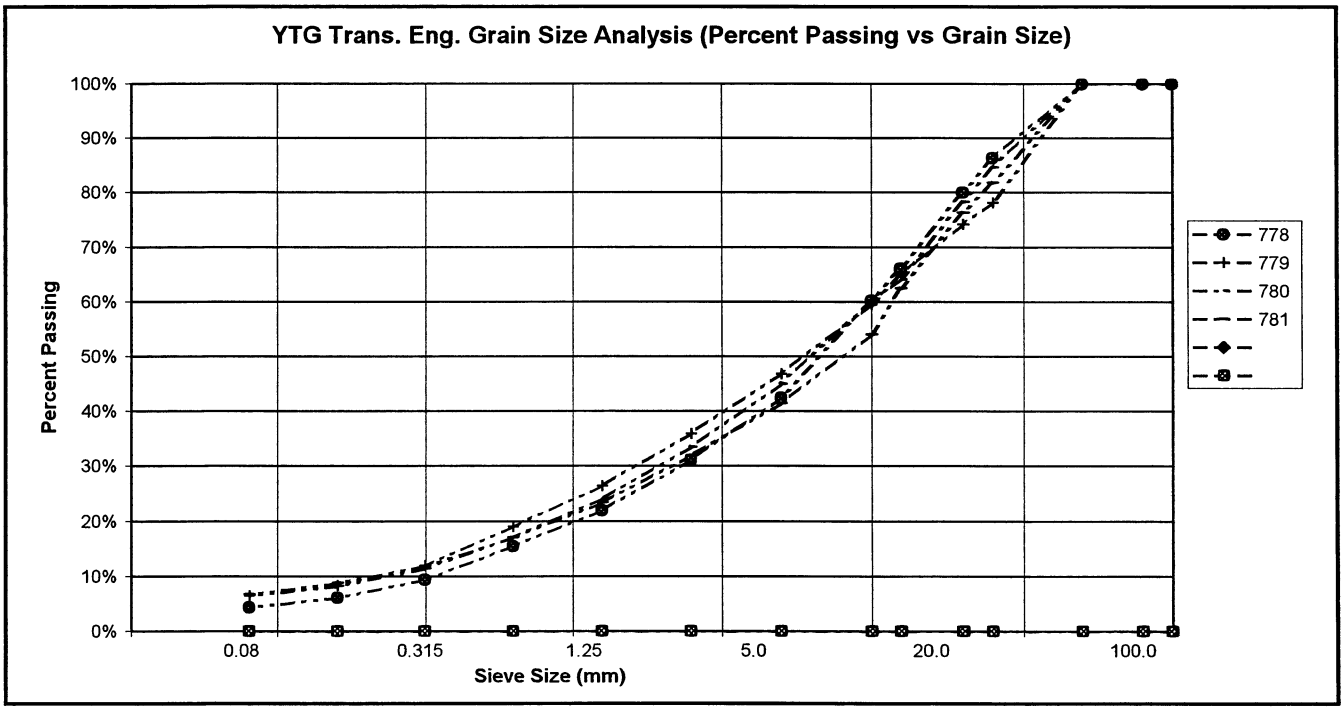
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 615-405
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/28

FIELD NO:	774	775	776	777		
LAB NO:	1550	1551	1552	1553		
DEPTH:	1.0-1.5	2.0-2.5	2.8-3.2	4.0-4.3		
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	83%	86%	86%	76%		
20.0	71%	78%	75%	72%		
12.5	51%	64%	61%	63%		
10.0	43%	61%	57%	59%		
5.0	32%	46%	42%	47%		
2.5	25%	36%	32%	38%		
1.25	18%	28%	22%	30%		
0.630	13%	22%	16%	24%		
0.315	8%	16%	11%	19%		
0.160	5%	12%	9%	15%		
0.080	4%	10%	7%	11%		
M.C.(%):	3%	4%	3%	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:	68	54	58	53		
% SAND:	28	36	35	36		
% FINES:	4	10	7	11		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		



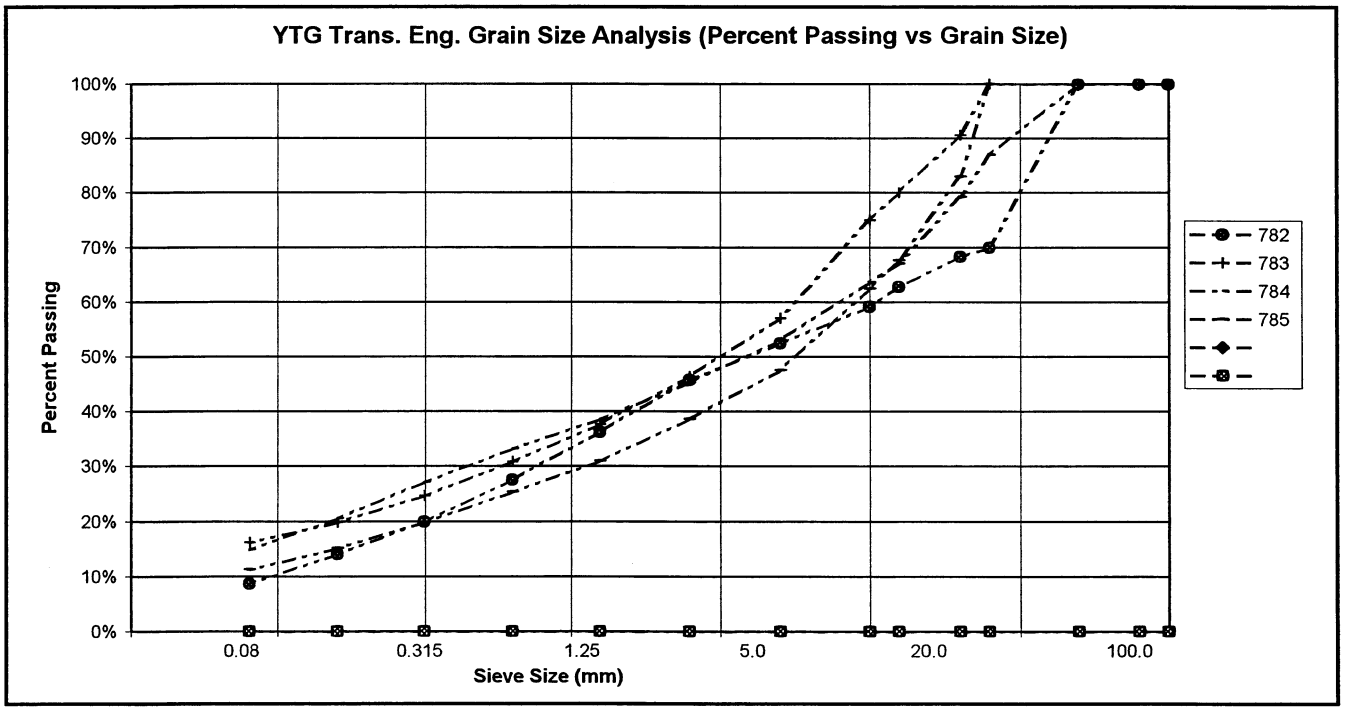
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 615-406
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/28

FIELD NO:	778	779	780	781		
LAB NO:	1554	1555	1556	1557		
DEPTH:	0.75-1.0	1.8-2.0	2.6-3.0	4.0-4.3		
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	86%	78%	85%	82%		
20.0	80%	74%	78%	76%		
12.5	66%	65%	64%	62%		
10.0	60%	60%	60%	54%		
5.0	43%	47%	45%	41%		
2.5	31%	36%	34%	32%		
1.25	22%	26%	24%	23%		
0.630	15%	19%	17%	17%		
0.315	9%	12%	11%	12%		
0.160	6%	8%	8%	9%		
0.080	4%	6%	6%	7%		
M.C.(%):	3%	4%	3%	3%		
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:	57	53	55	59		
% SAND:	38	40	39	35		
% FINES:	4	6	6	7		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		



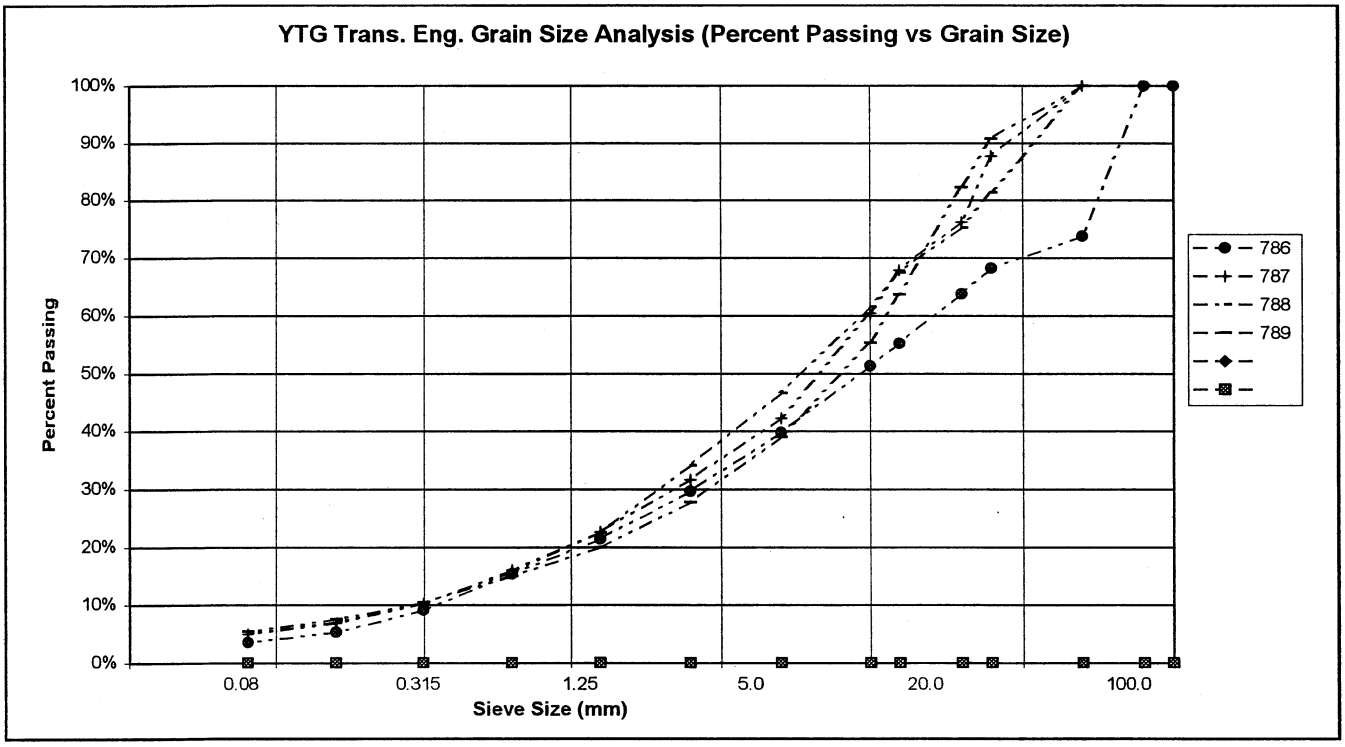
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 615-407
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/28

FIELD NO:	782	783	784	785		
LAB NO:	1558	1559	1560	1561		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	4.0-4.3		
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	70%	100%	87%	100%		
20.0	68%	91%	79%	83%		
12.5	63%	80%	67%	68%		
10.0	59%	75%	64%	62%		
5.0	53%	57%	53%	48%		
2.5	46%	46%	45%	39%		
1.25	36%	38%	39%	31%		
0.630	28%	31%	33%	25%		
0.315	20%	25%	27%	20%		
0.160	14%	20%	20%	15%		
0.080	9%	16%	15%	11%		
M.C.(%):	6%	9%	8%	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:	47	43	47	52		
% SAND:	44	41	38	36		
% FINES:	9	16	15	11		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY GRAVEL WITH SAND (GM)	SILTY GRAVEL WITH SAND (GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		



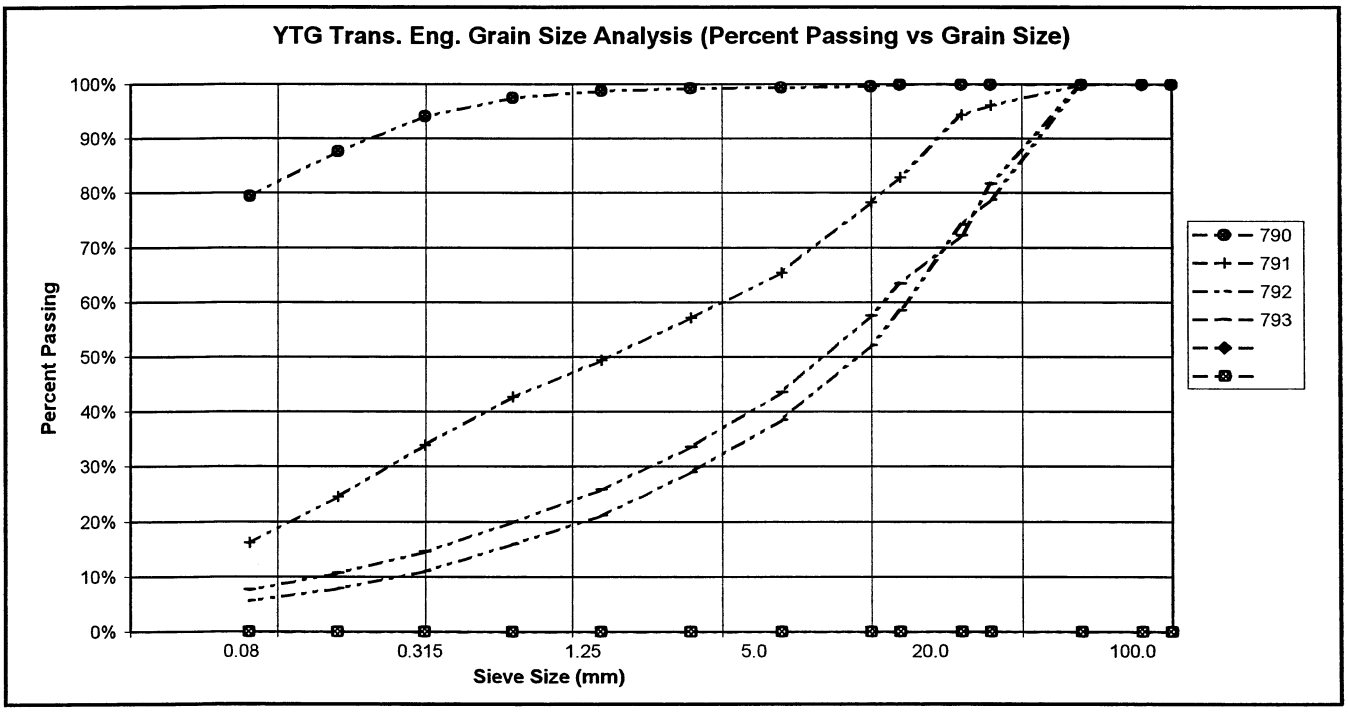
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 615-408
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/28

FIELD NO:	786	787	788	789		
LAB NO:	1562	1563	1564	1565		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	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	74%	100%	100%	100%		
25.0	68%	88%	81%	91%		
20.0	64%	76%	75%	82%		
12.5	55%	68%	67%	64%		
10.0	51%	60%	62%	55%		
5.0	40%	42%	47%	39%		
2.5	30%	32%	34%	28%		
1.25	21%	23%	23%	20%		
0.630	15%	16%	16%	15%		
0.315	9%	10%	10%	11%		
0.160	5%	7%	7%	8%		
0.080	4%	5%	5%	5%		
M.C.(%):	3%	3%	3%	3%		
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:	60	58	53	61		
% SAND:	36	37	41	34		
% FINES:	4	5	5	5		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)		



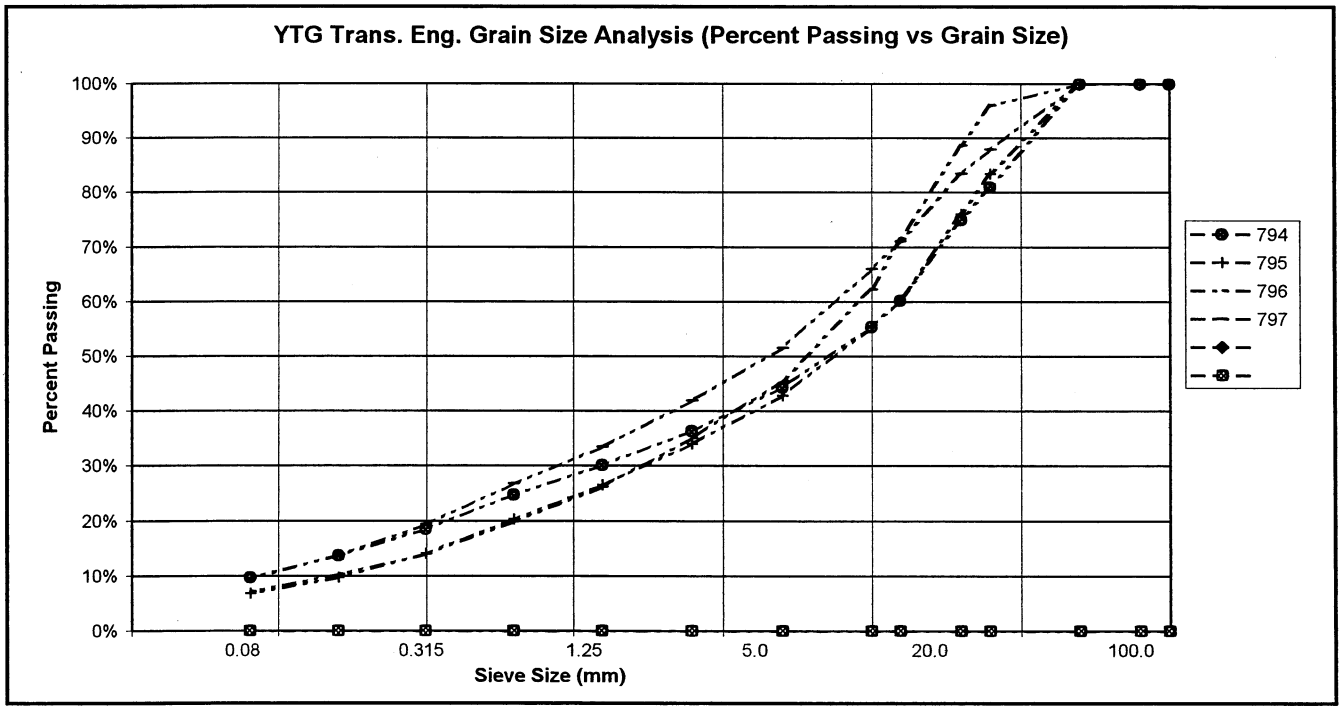
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 615-409
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/28

FIELD NO:	790	791	792	793		
LAB NO:	1566	1567	1568	1569		
DEPTH:	0.2-0.6	1.0-1.5	2.5-3.0	4.0-4.3		
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%	96%	79%	82%		
20.0	100%	94%	74%	72%		
12.5	100%	83%	59%	63%		
10.0	100%	78%	52%	58%		
5.0	99%	65%	39%	44%		
2.5	99%	57%	29%	34%		
1.25	99%	49%	21%	26%		
0.630	98%	43%	16%	20%		
0.315	94%	34%	11%	15%		
0.160	88%	24%	8%	11%		
0.080	79%	16%	6%	8%		
M.C.(%):	17%	9%	3%	4%		
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:	1	35	61	56		
% SAND:	20	49	33	36		
% FINES:	79	16	6	8		
CLASSIFICATION	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		



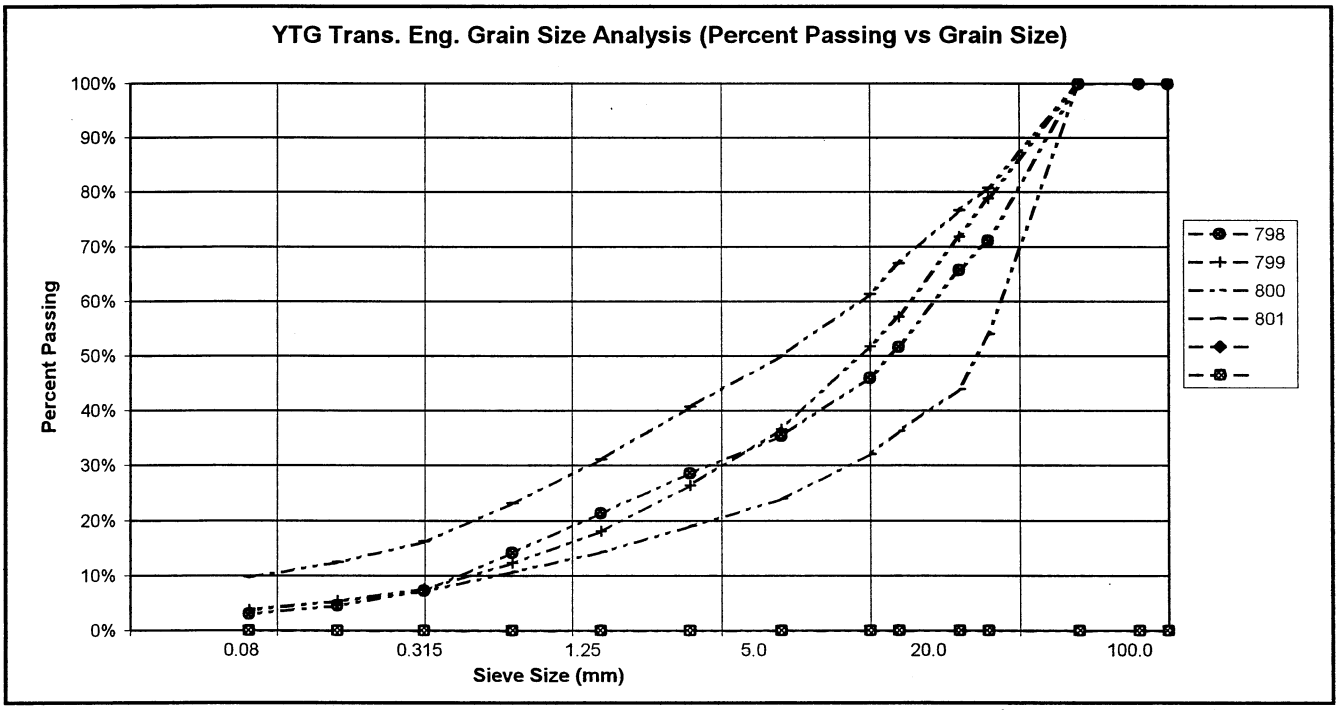
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 616-410
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/28

FIELD NO:	794	795	796	797		
LAB NO:	1570	1571	1572	1573		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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	81%	83%	96%	88%		
20.0	75%	76%	89%	83%		
12.5	60%	60%	72%	71%		
10.0	55%	55%	62%	66%		
5.0	44%	43%	46%	52%		
2.5	36%	34%	35%	42%		
1.25	30%	26%	26%	33%		
0.630	25%	20%	20%	27%		
0.315	19%	14%	14%	19%		
0.160	14%	10%	10%	14%		
0.080	10%	7%	7%	9%		
M.C.(%):	6%	3%	3%	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:	56	57	54	48		
% SAND:	35	36	38	42		
% FINES:	10	7	7	9		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		



PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 616-411
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/28

FIELD NO:	798	799	800	801		
LAB NO:	1574	1575	1576	1577		
DEPTH:	0.7-1.0	1.7-2.0	2.6-2.8	3.8-4.3		
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	71%	79%	54%	81%		
20.0	66%	72%	44%	77%		
12.5	52%	57%	36%	67%		
10.0	46%	52%	32%	61%		
5.0	35%	37%	24%	50%		
2.5	29%	26%	19%	41%		
1.25	21%	18%	14%	31%		
0.630	14%	12%	11%	23%		
0.315	7%	8%	7%	16%		
0.160	5%	5%	5%	12%		
0.080	3%	4%	4%	10%		
M.C.(%):	3%	2%	2%	6%		
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:	65	63	76	50		
% SAND:	32	33	20	40		
% FINES:	3	4	4	10		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SAND (GP)	WELL-GRADED GRAVEL WITH SAND (GW)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		

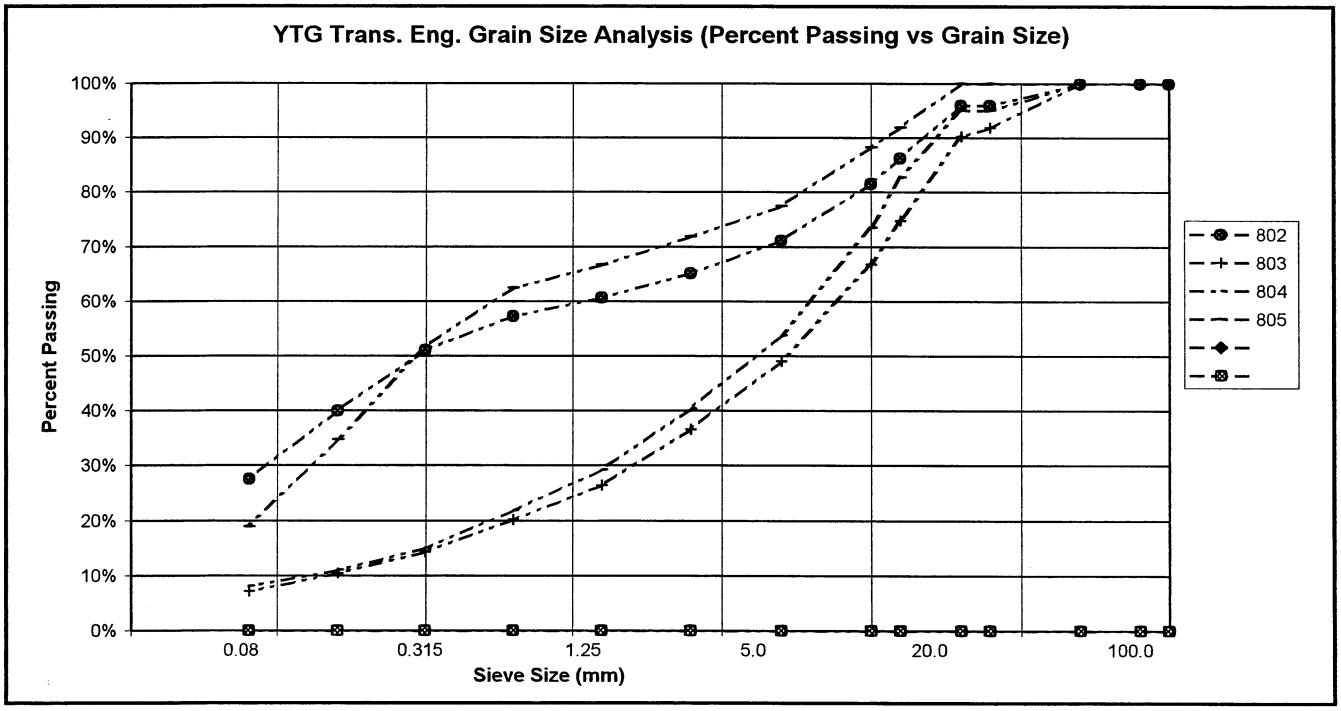


PROJECT NUMBER: 092-202101-0361-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 11
PROJECT LOCATION: Km 1729.6-1787 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: See Testhole Log Sheet
LOGGED BY: G.C.

HOLE No.: 616-412

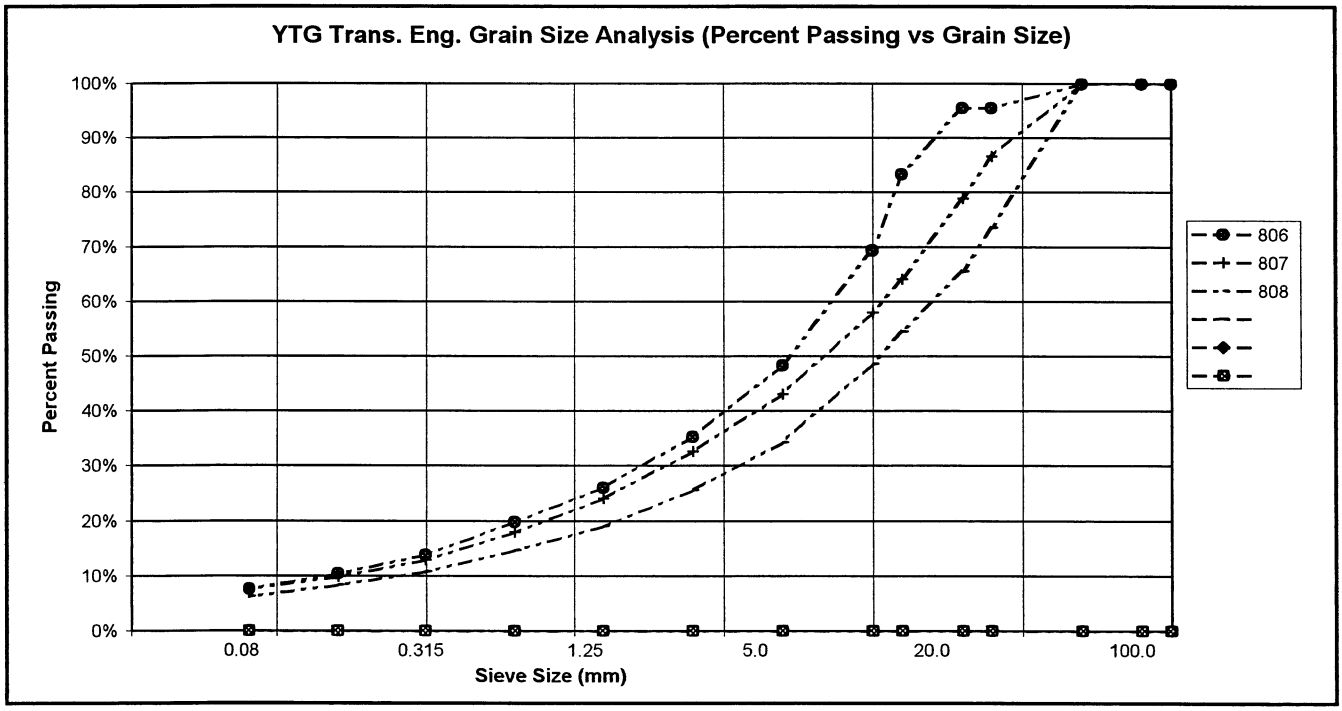
DATE COMP: 2001/08/28

FIELD NO:	802	803	804	805		
LAB NO:	1578	1759	1580	1581		
DEPTH:	0.3-0.6	1.6-2.0	2.4-2.8	3.6-4.3		
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	96%	92%	95%	100%		
20.0	96%	90%	95%	100%		
12.5	86%	75%	83%	92%		
10.0	82%	67%	73%	88%		
5.0	71%	49%	54%	77%		
2.5	65%	37%	40%	72%		
1.25	61%	26%	29%	67%		
0.630	57%	20%	22%	62%		
0.315	51%	14%	15%	52%		
0.160	40%	10%	11%	35%		
0.080	28%	7%	8%	19%		
M.C.(%):	12%	3%	3%	10%		
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:	29	51	46	23		
% SAND:	44	42	46	59		
% FINES:	28	7	8	19		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)	SILTY SAND WITH GRAVEL (SM)		



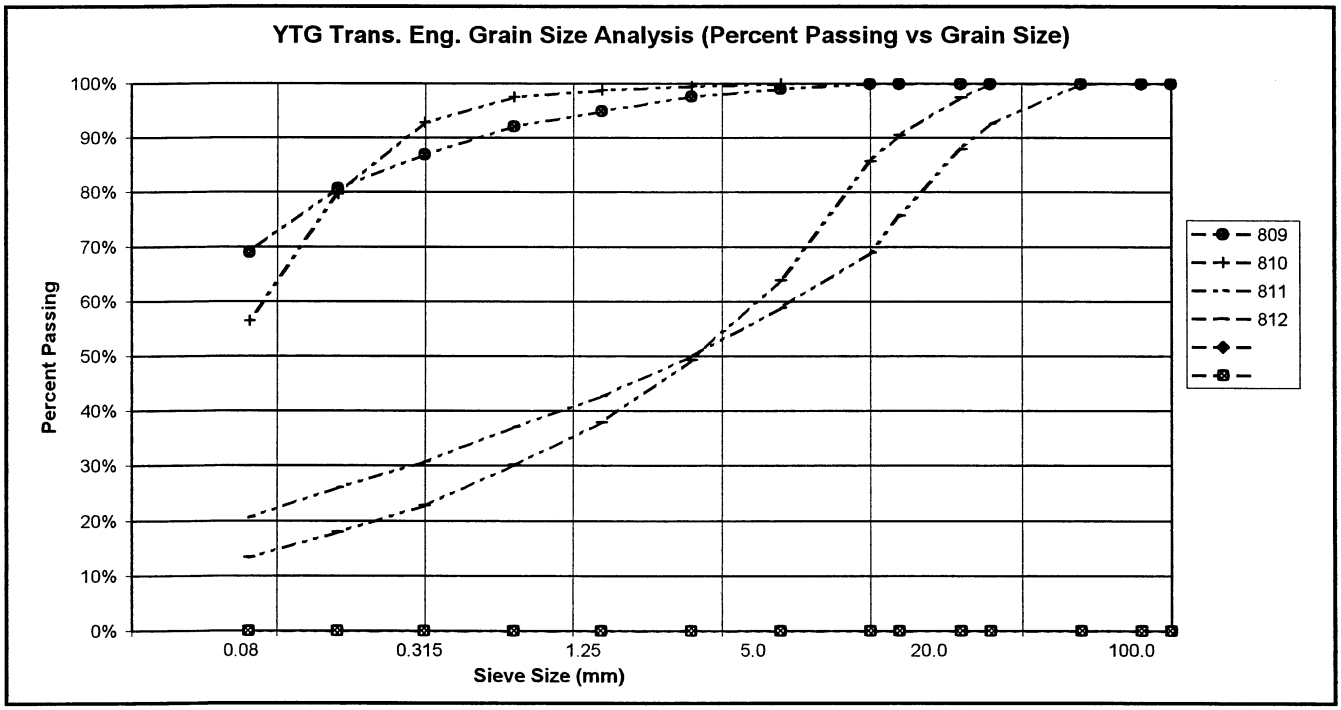
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 616-413
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/28

FIELD NO:	806	807	808			
LAB NO:	1582	1583	1584			
DEPTH:	1.0-1.5	2.5-3.0	3.8-4.3			
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	96%	87%	74%			
20.0	96%	79%	65%			
12.5	83%	64%	54%			
10.0	69%	58%	49%			
5.0	48%	43%	34%			
2.5	35%	33%	26%			
1.25	26%	24%	19%			
0.630	20%	18%	15%			
0.315	14%	13%	11%			
0.160	10%	10%	8%			
0.080	8%	8%	6%			
M.C.(%):	4%	3%	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:	52	57	66			
% SAND:	41	35	28			
% FINES:	8	8	6			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)			



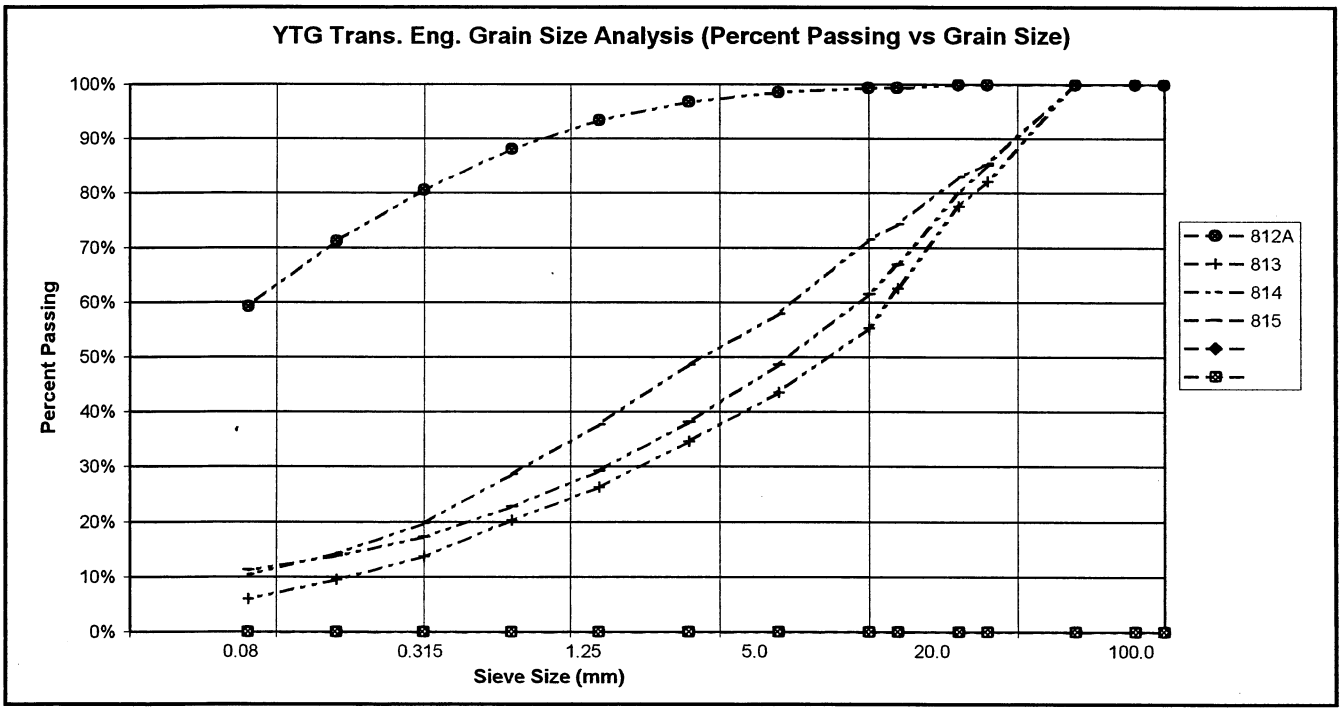
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 616-414
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/28

FIELD NO:	809	810	811	812		
LAB NO:	1585	1586	1587	1588		
DEPTH:	0.5-1.0	1.4-1.8	2.5-3.0	3.0-3.4		
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%	93%	100%		
20.0	100%	100%	88%	97%		
12.5	100%	100%	76%	91%		
10.0	100%	100%	69%	86%		
5.0	99%	100%	59%	64%		
2.5	98%	100%	50%	49%		
1.25	95%	99%	43%	38%		
0.630	92%	98%	37%	30%		
0.315	87%	93%	31%	23%		
0.160	81%	80%	26%	18%		
0.080	69%	56%	21%	13%		
M.C.(%):	29%	18%	9%	7%		
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:	1	0	41	36		
% SAND:	30	44	38	51		
% FINES:	69	56	21	13		
CLASSIFICATION	SANDY SILT (ML)	SANDY SILT (ML)	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)		



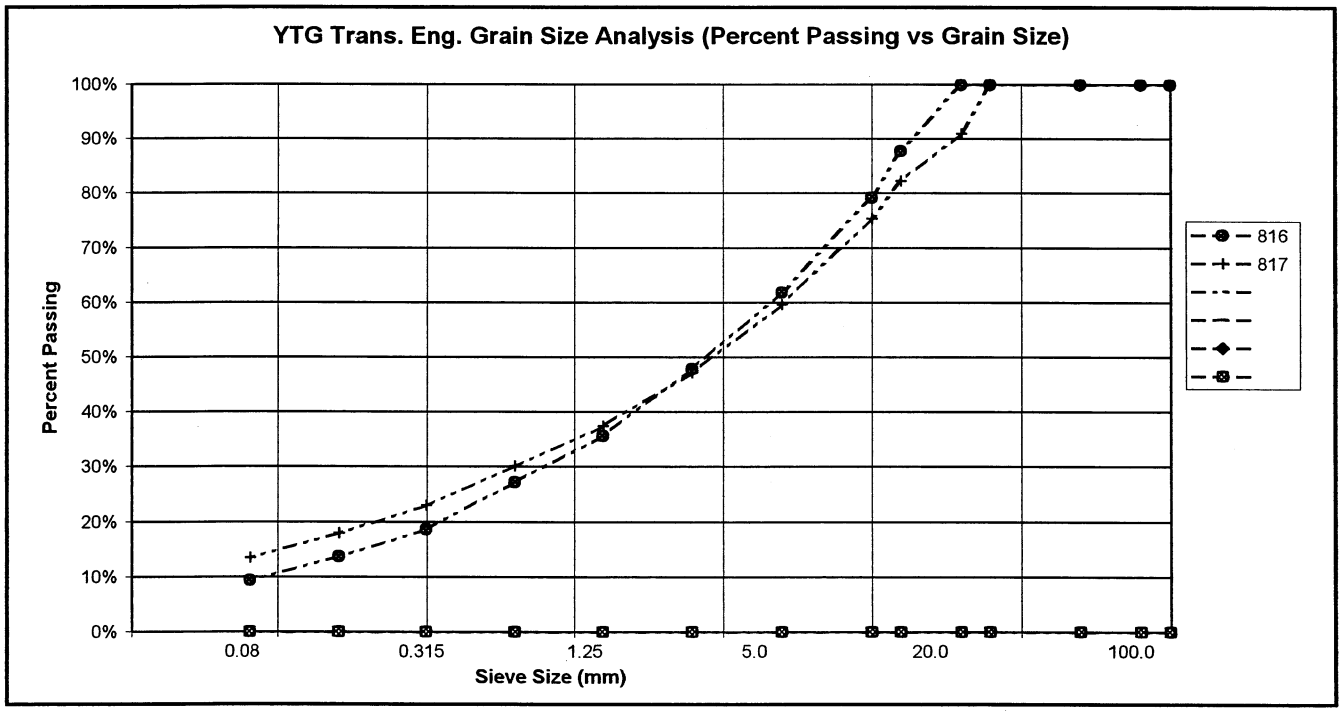
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 616-415
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/28

FIELD NO:	812A	813	814	815		
LAB NO:	1589	1590	1591	1592		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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%	82%	85%	85%		
20.0	100%	78%	83%	80%		
12.5	99%	63%	74%	67%		
10.0	99%	55%	71%	61%		
5.0	99%	43%	58%	49%		
2.5	97%	35%	49%	38%		
1.25	93%	26%	38%	29%		
0.630	88%	20%	29%	23%		
0.315	81%	14%	20%	17%		
0.160	71%	9%	14%	14%		
0.080	59%	6%	10%	11%		
M.C.(%):	28%	4%	5%	7%		
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:	1	57	42	51		
% SAND:	39	38	47	37		
% FINES:	59	6	10	11		
CLASSIFICATION	SANDY SILT (ML)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		



PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 616-416
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/28

FIELD NO:	816	817				
LAB NO:	1593	1594				
DEPTH:	1.5-2.0	2.5-3.0				
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%	91%				
12.5	88%	82%				
10.0	79%	75%				
5.0	62%	60%				
2.5	48%	47%				
1.25	36%	37%				
0.630	27%	30%				
0.315	19%	23%				
0.160	14%	18%				
0.080	9%	14%				
M.C.(%):	8%	13%				
LIQUID LIMIT:	0.0	0.0				
PLASTIC LIMIT:	0.0	0.0				
PLASTIC INDEX.:	0.0	0.0				
% GRAVEL:	38	40				
% SAND:	52	46				
% FINES:	9	14				
CLASSIFICATION	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	SILTY SAND WITH GRAVEL (SM)				

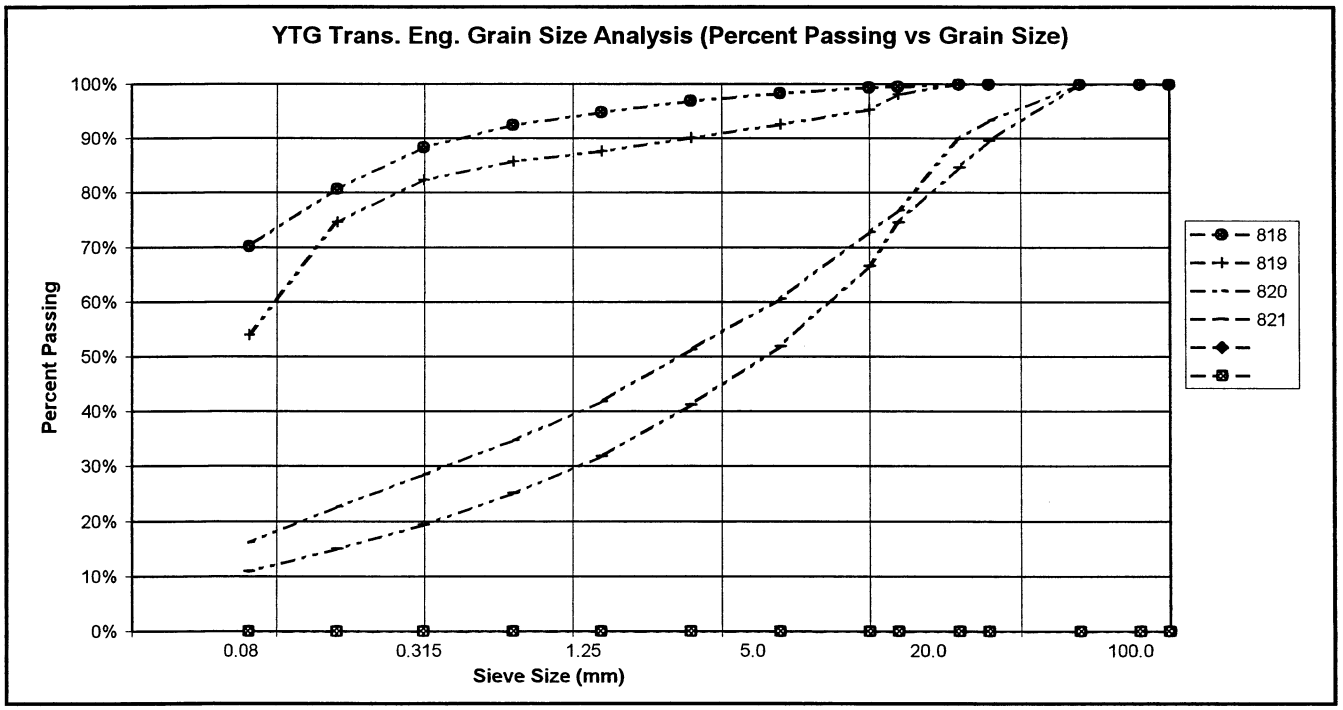


PROJECT NUMBER: 092-202101-0361-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 11
PROJECT LOCATION: Km 1729.6-1787 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: See Testhole Log Sheet
LOGGED BY: G.C.

HOLE No.: 616-417

DATE COMP: 2001/08/29

FIELD NO:	818	819	820	821		
LAB NO:	1595	1596	1597	1598		
DEPTH:	0.75-1.0	1.2-1.4	2.5-3.0	4.0-4.3		
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%	93%	90%		
20.0	100%	100%	90%	85%		
12.5	100%	98%	77%	75%		
10.0	99%	95%	73%	67%		
5.0	98%	93%	61%	52%		
2.5	97%	90%	51%	41%		
1.25	95%	88%	42%	32%		
0.630	92%	86%	35%	25%		
0.315	88%	82%	29%	19%		
0.160	81%	75%	23%	15%		
0.080	70%	54%	16%	11%		
M.C.(%):	22%	18%	6%	4%		
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	7	39	48		
% SAND:	28	39	44	41		
% FINES:	70	54	16	11		
CLASSIFICATION	SILT WITH SAND (ML)	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		

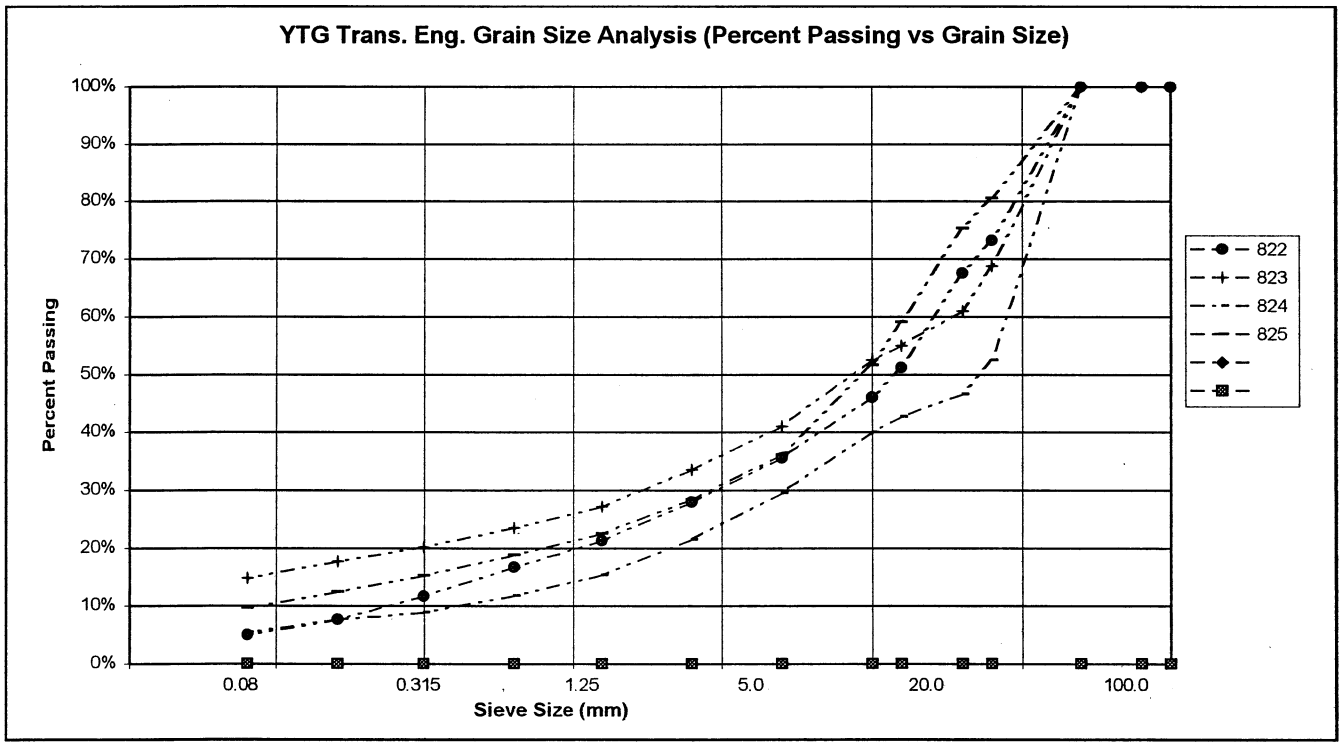


PROJECT NUMBER: 092-202101-0361-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 11
PROJECT LOCATION: Km 1729.6-1787 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: See Testhole Log Sheet
LOGGED BY: G.C.

HOLE No.: 616-418

DATE COMP: 2001/08/29

FIELD NO:	822	823	824	825		
LAB NO:	1599	1600	1601	1602		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	4.0-4.3		
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	73%	69%	52%	81%		
20.0	68%	61%	47%	75%		
12.5	51%	55%	43%	59%		
10.0	46%	53%	40%	52%		
5.0	36%	41%	30%	36%		
2.5	28%	34%	21%	28%		
1.25	21%	27%	15%	23%		
0.630	17%	24%	12%	19%		
0.315	12%	20%	9%	15%		
0.160	8%	18%	8%	12%		
0.080	5%	15%	5%	10%		
M.C.(%):	4%	5%	3%	4%		
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:	64	59	70	64		
% SAND:	31	26	24	26		
% FINES:	5	15	5	10		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY GRAVEL WITH SAND (GM)	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)		

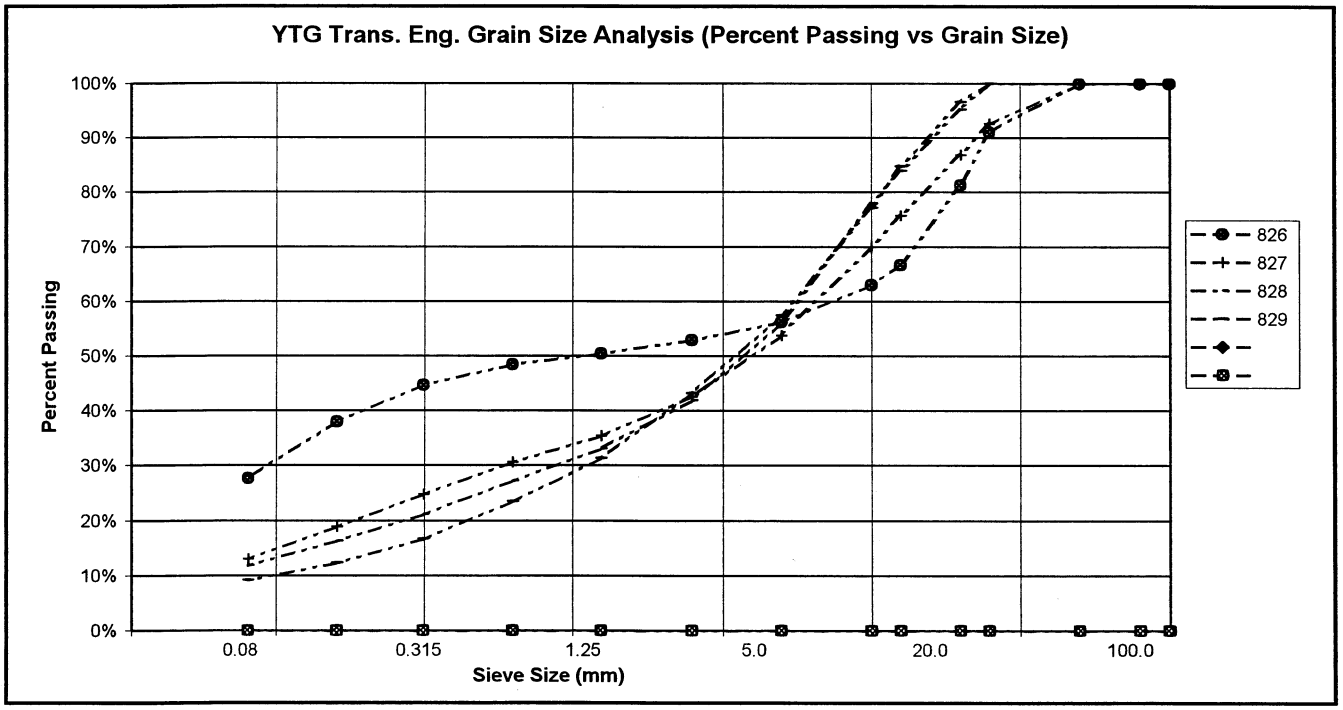


PROJECT NUMBER: 092-202101-0361-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 11
PROJECT LOCATION: Km 1729.6-1787 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: See Testhole Log Sheet
LOGGED BY: G.C.

HOLE No.: 616-419

DATE COMP: 2001/08/29

FIELD NO:	826	827	828	829		
LAB NO:	1603	1604	1605	1606		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	4.0-4.3		
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	91%	93%	100%	100%		
20.0	81%	87%	95%	97%		
12.5	67%	76%	84%	85%		
10.0	63%	70%	78%	77%		
5.0	56%	54%	56%	57%		
2.5	53%	43%	42%	43%		
1.25	50%	35%	33%	31%		
0.630	48%	31%	27%	23%		
0.315	45%	25%	21%	17%		
0.160	38%	19%	16%	12%		
0.080	28%	13%	12%	9%		
M.C.(%):	6%	3%	3%	2%		
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:	44	46	44	43		
% SAND:	29	41	44	48		
% FINES:	28	13	12	9		
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)	SILTY GRAVEL WITH SAND (GM)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)		

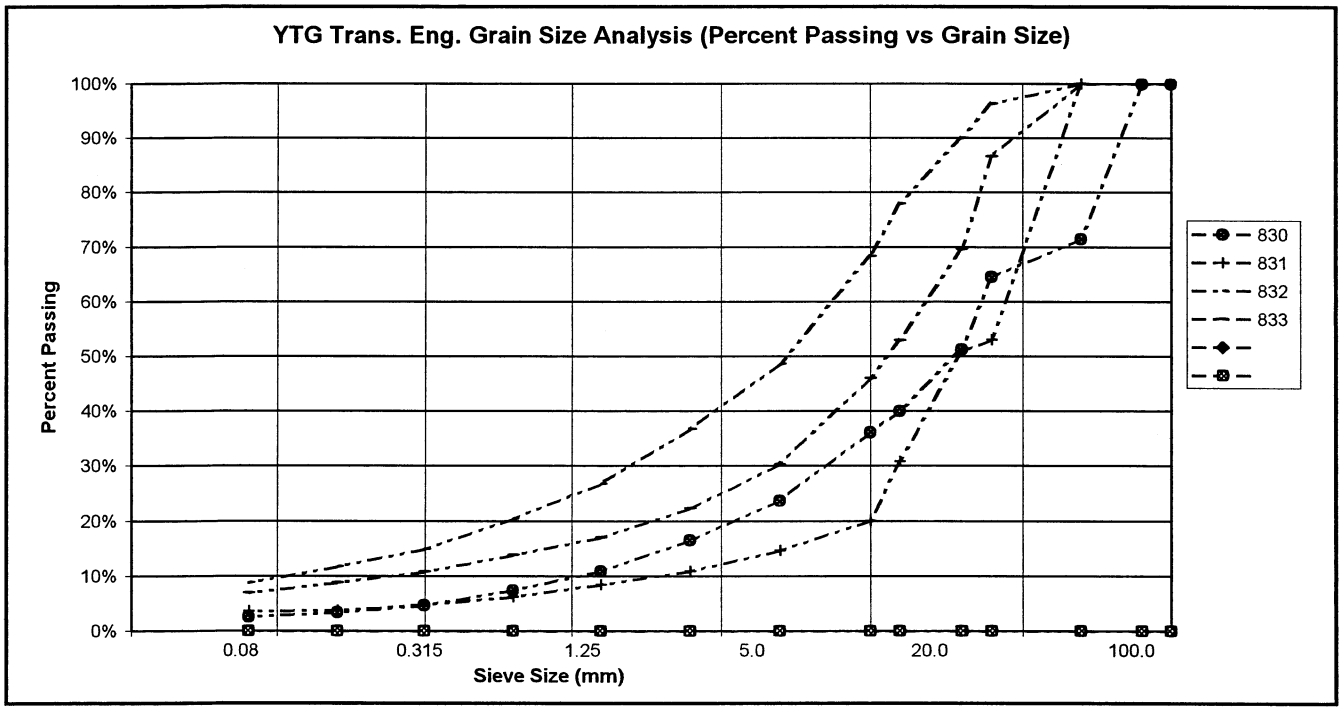


PROJECT NUMBER: 092-202101-0361-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 11
PROJECT LOCATION: Km 1729.6-1787 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: See Testhole Log Sheet
LOGGED BY: G.C.

HOLE No.: 616-420

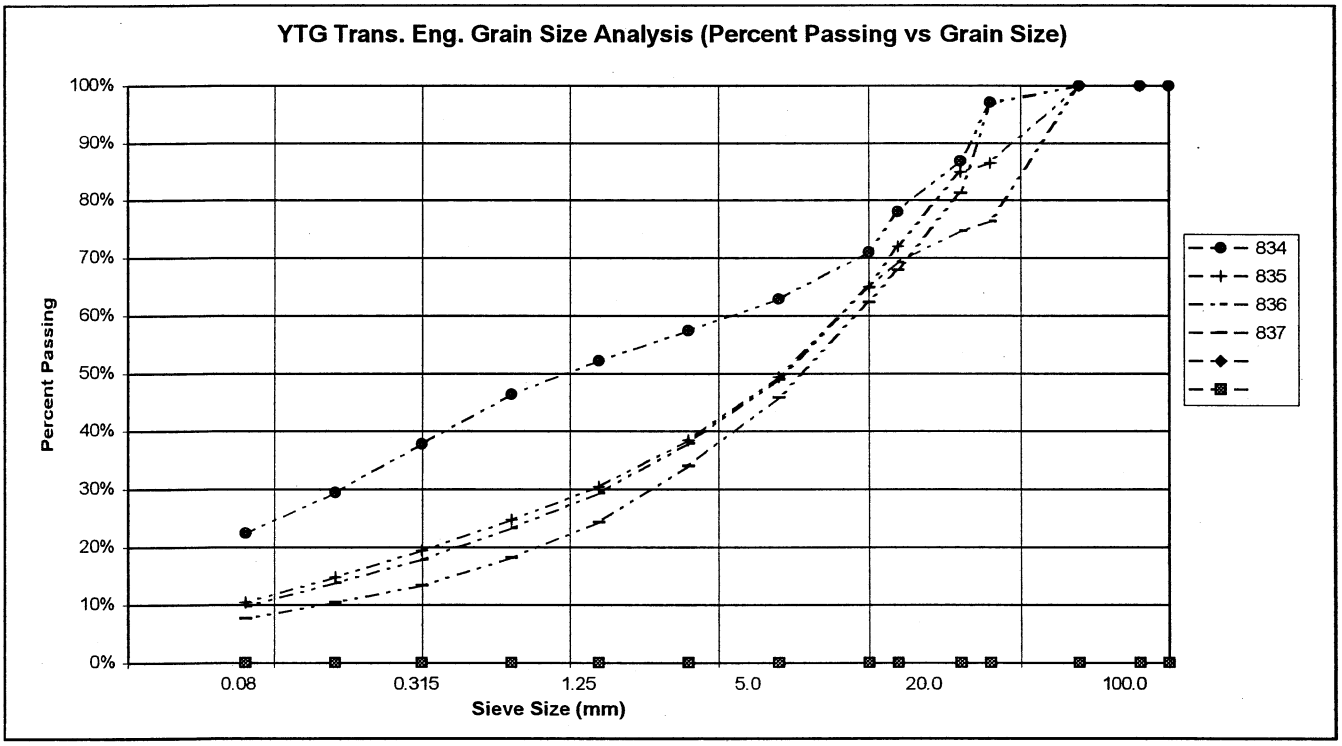
DATE COMP: 2001/08/29

FIELD NO:	830	831	832	833		
LAB NO:	1607	1608	1609	1610		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	4.0-4.3		
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	71%	100%	100%	100%		
25.0	65%	53%	96%	87%		
20.0	51%	51%	90%	70%		
12.5	40%	31%	78%	53%		
10.0	36%	20%	68%	46%		
5.0	24%	15%	49%	30%		
2.5	17%	11%	37%	22%		
1.25	11%	8%	27%	17%		
0.630	7%	6%	20%	14%		
0.315	5%	5%	15%	11%		
0.160	3%	4%	12%	9%		
0.080	3%	4%	9%	7%		
M.C.(%):	3%	3%	3%	3%		
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:	76	85	51	70		
% SAND:	21	11	40	23		
% FINES:	3	4	9	7		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	WELL-GRADED GRAVEL (GW)	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		



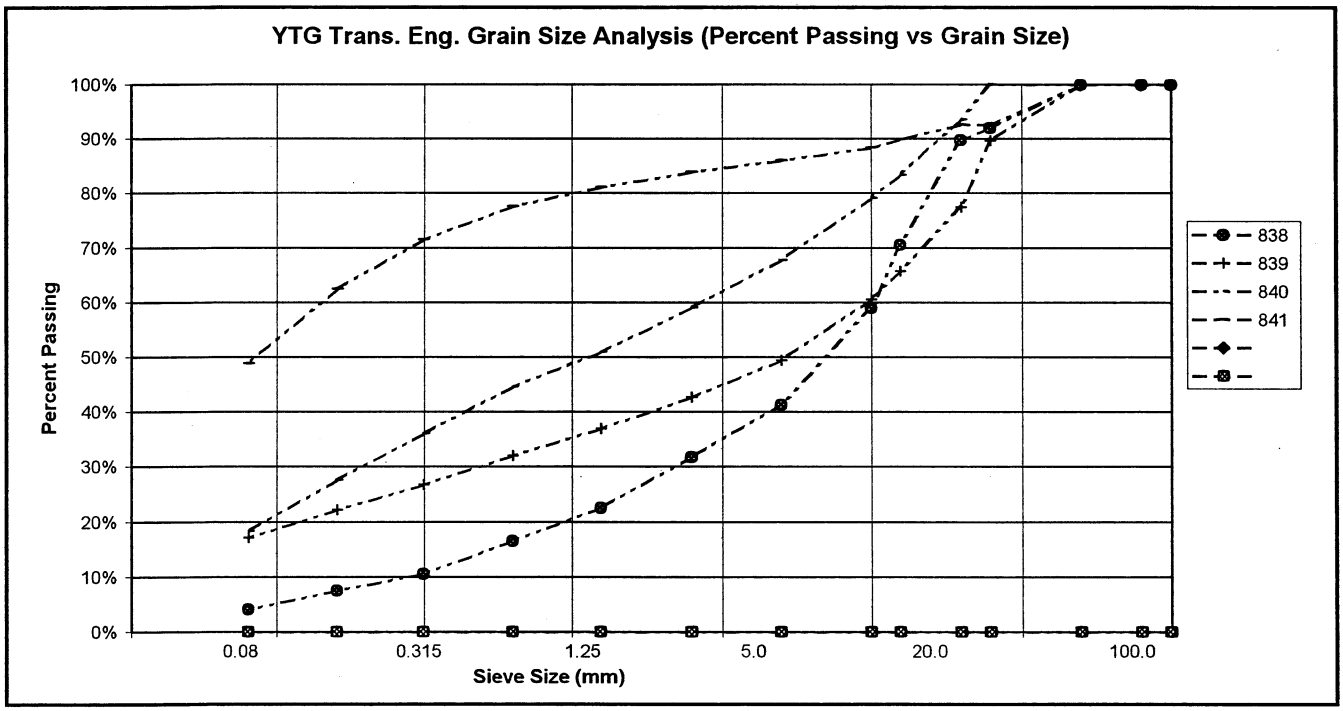
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 616-421
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/29

FIELD NO:	834	835	836	837		
LAB NO:	1611	1612	1613	1614		
DEPTH:	0.6-1.1	1.7-2.0	2.6-3.0	4.0-4.3		
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	97%	87%	76%	97%		
20.0	87%	85%	75%	81%		
12.5	78%	72%	69%	68%		
10.0	71%	65%	65%	62%		
5.0	63%	49%	49%	46%		
2.5	57%	39%	38%	34%		
1.25	52%	30%	29%	24%		
0.630	46%	25%	23%	18%		
0.315	38%	19%	18%	13%		
0.160	29%	15%	14%	10%		
0.080	22%	10%	10%	8%		
M.C.(%):	11%	3%	3%	2%		
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:	37	51	51	54		
% SAND:	40	39	39	38		
% FINES:	22	10	10	8		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		



PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 616-422
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/29

FIELD NO:	838	839	840	841		
LAB NO:	1615	1616	1617	1618		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	4.0-4.3		
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	92%	90%	100%	93%		
20.0	90%	78%	94%	93%		
12.5	70%	66%	83%	90%		
10.0	59%	61%	79%	88%		
5.0	41%	49%	68%	86%		
2.5	32%	43%	59%	84%		
1.25	23%	37%	51%	81%		
0.630	17%	32%	45%	78%		
0.315	11%	27%	36%	71%		
0.160	8%	22%	28%	62%		
0.080	4%	17%	18%	49%		
M.C.(%):	2%	5%	5%	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:	59	51	32	14		
% SAND:	37	32	49	37		
% FINES:	4	17	18	49		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND (SM)		

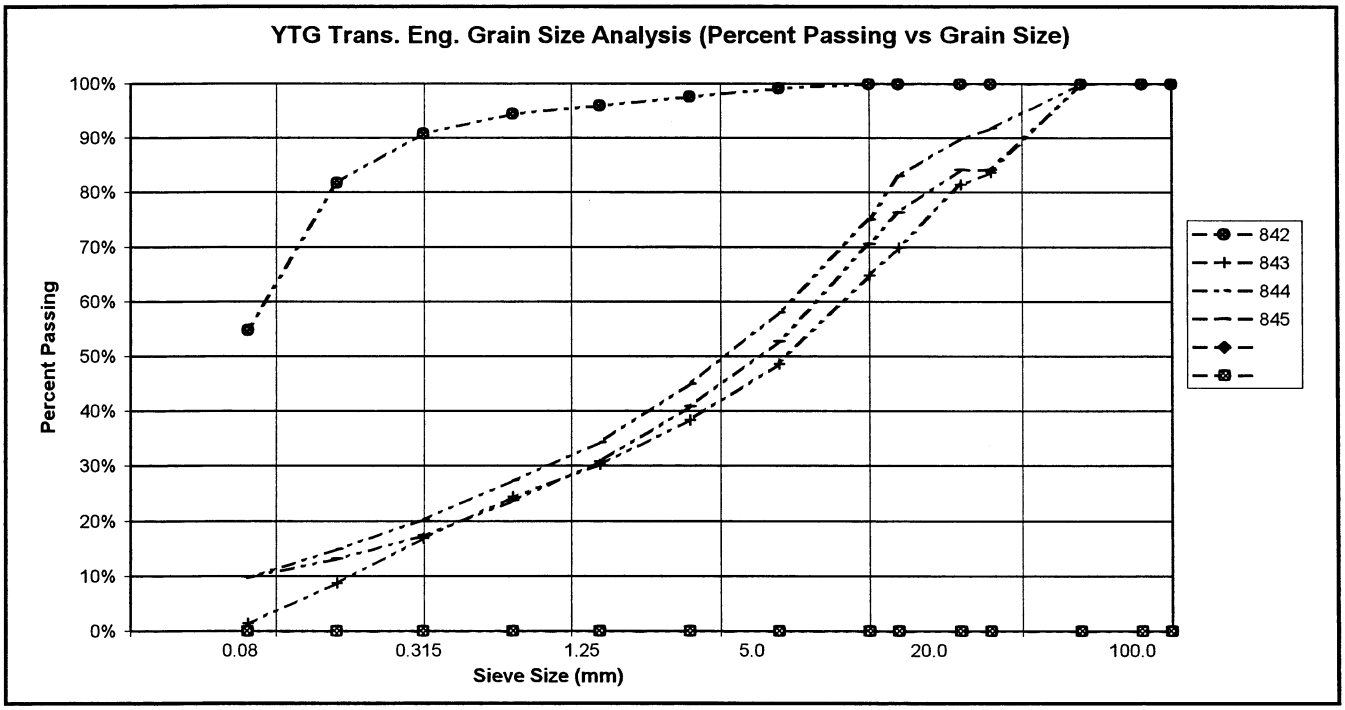


PROJECT NUMBER: 092-202101-0361-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 11
PROJECT LOCATION: Km 1729.6-1787 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: See Testhole Log Sheet
LOGGED BY: G.C.

HOLE No.: 616-423

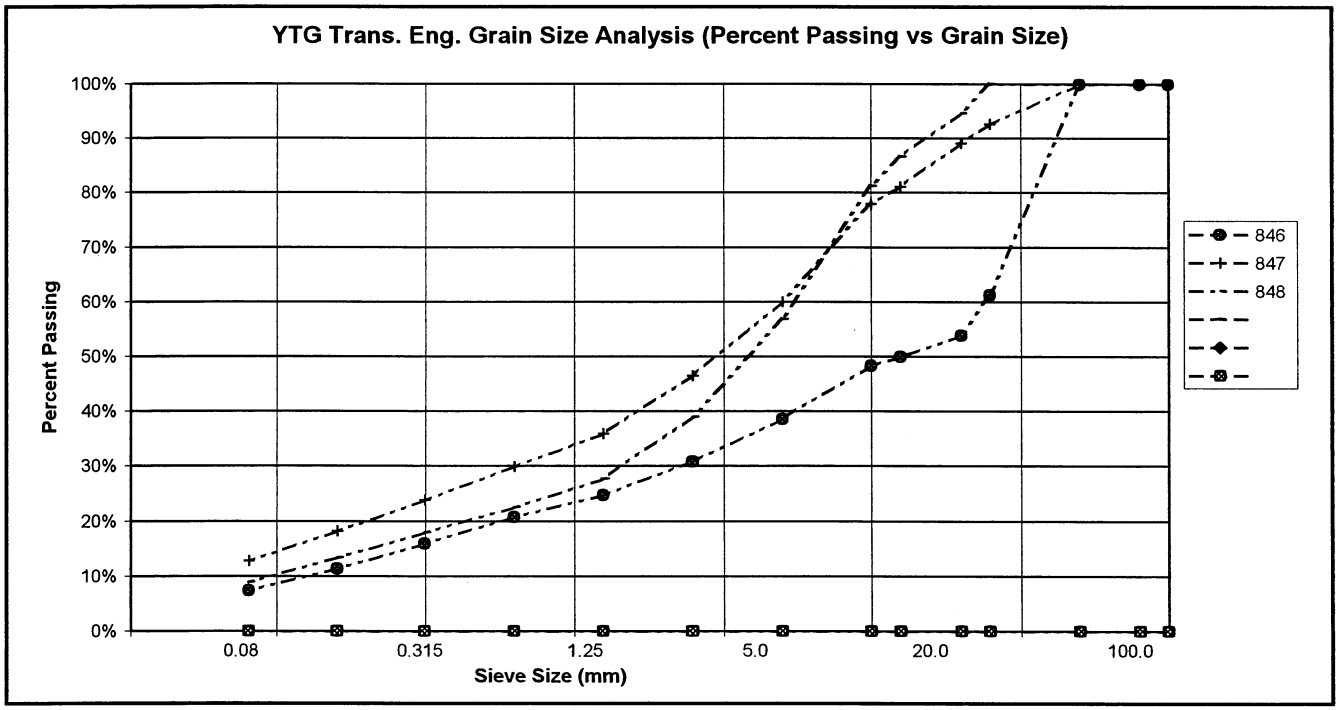
DATE COMP: 2001/08/29

FIELD NO:	842	843	844	845		
LAB NO:	1619	1620	1621	1622		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	4.0-4.3		
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%	84%	92%	84%		
20.0	100%	82%	90%	84%		
12.5	100%	70%	83%	76%		
10.0	100%	65%	75%	71%		
5.0	99%	49%	58%	53%		
2.5	98%	38%	45%	41%		
1.25	96%	30%	34%	31%		
0.630	94%	24%	27%	24%		
0.315	91%	17%	20%	17%		
0.160	82%	9%	15%	13%		
0.080	55%	1%	10%	10%		
M.C.(%):	18%	5%	4%	7%		
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:	1	51	42	47		
% SAND:	44	47	48	43		
% FINES:	55	1	10	10		
CLASSIFICATION	SANDY SILT (ML)	POORLY GRADED GRAVEL WITH SAND (GP)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		



PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 616-424
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/29

FIELD NO:	846	847	848			
LAB NO:	1623	1624	1625			
DEPTH:	1.0-1.5	2.0-2.5	3.0-3.6			
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	61%	93%	100%			
20.0	54%	89%	95%			
12.5	50%	81%	87%			
10.0	48%	78%	81%			
5.0	39%	60%	57%			
2.5	31%	46%	39%			
1.25	25%	36%	28%			
0.630	21%	30%	22%			
0.315	16%	24%	18%			
0.160	11%	18%	13%			
0.080	7%	13%	9%			
M.C.(%):	3%	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:	61	40	43			
% SAND:	31	47	48			
% FINES:	7	13	9			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY SAND WITH GRAVEL (SM)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)			

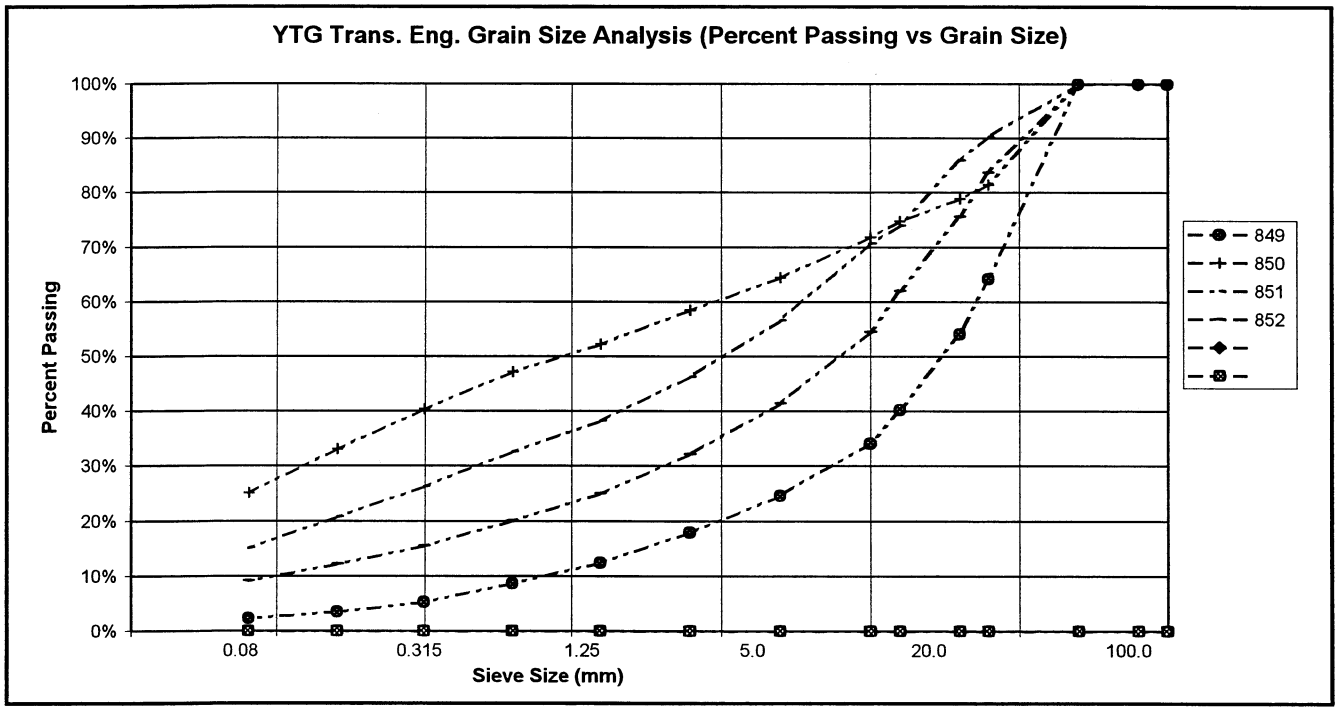


PROJECT NUMBER: 092-202101-0361-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 11
PROJECT LOCATION: Km 1729.6-1787 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: See Testhole Log Sheet
LOGGED BY: G.C.

HOLE No.: 616-425

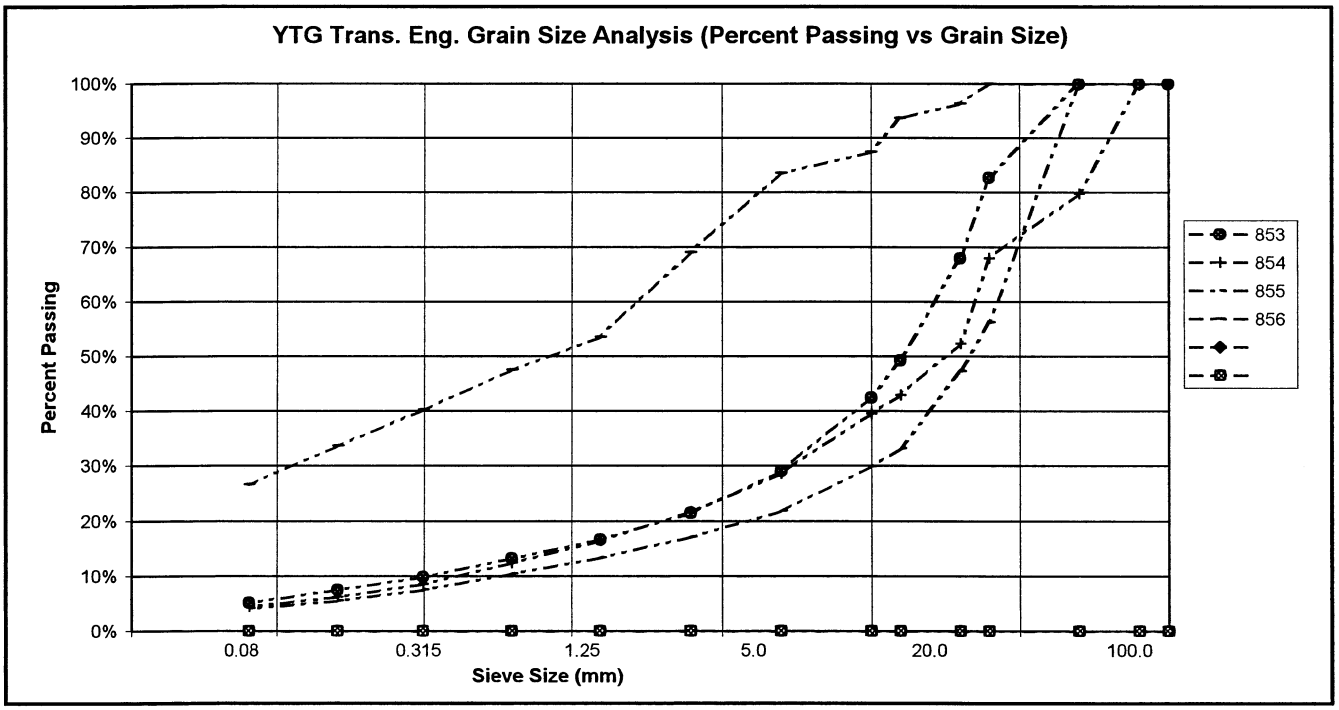
DATE COMP: 2001/08/29

FIELD NO:	849	850	851	852		
LAB NO:	1626	1627	1628	1629		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	4.0-4.4		
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	64%	81%	90%	84%		
20.0	54%	79%	86%	76%		
12.5	40%	75%	74%	62%		
10.0	34%	72%	71%	54%		
5.0	25%	64%	57%	41%		
2.5	18%	58%	46%	32%		
1.25	12%	52%	38%	25%		
0.630	9%	47%	33%	20%		
0.315	5%	40%	26%	16%		
0.160	3%	33%	21%	12%		
0.080	2%	25%	15%	9%		
M.C.(%):	2%	12%	6%	3%		
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:	75	36	43	59		
% SAND:	22	39	41	32		
% FINES:	2	25	15	9		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		



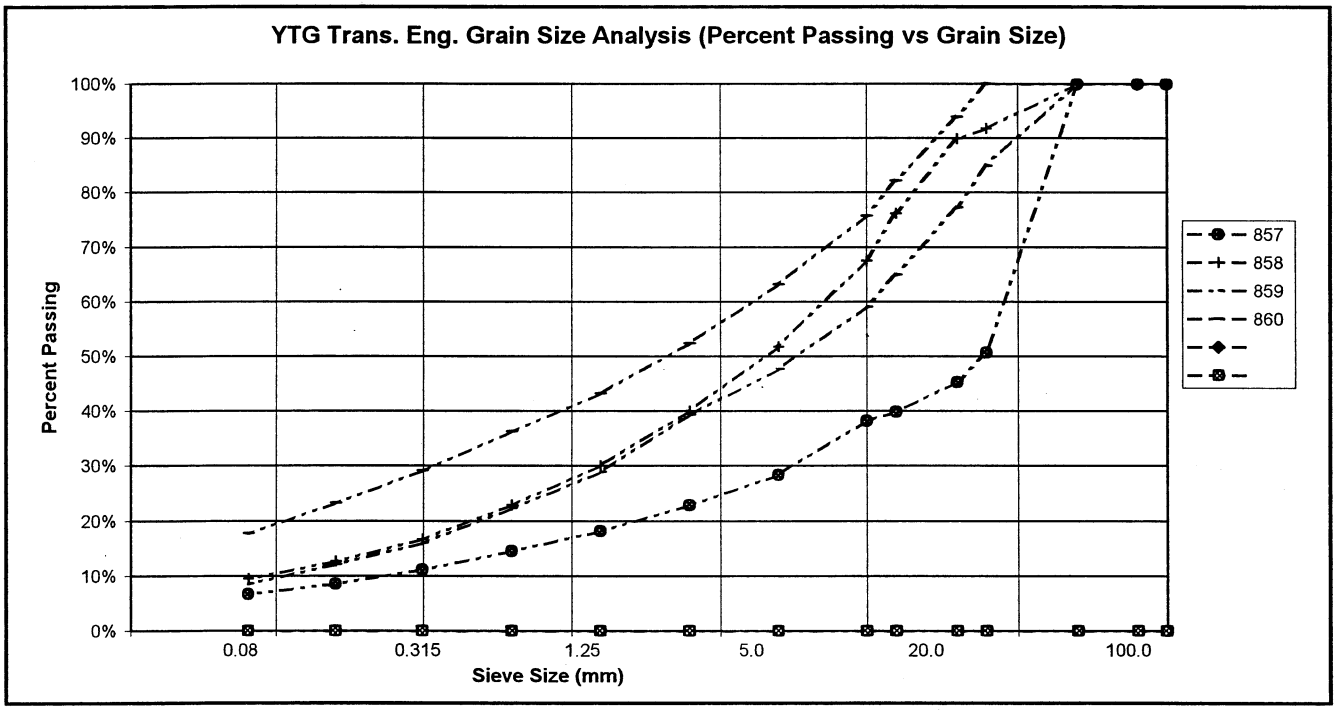
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 616-426
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/29

FIELD NO:	853	854	855	856		
LAB NO:	1630	1631	1632	1633		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	4.0-4.3		
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%	80%	100%	100%		
25.0	83%	68%	56%	100%		
20.0	68%	52%	47%	96%		
12.5	49%	43%	33%	94%		
10.0	43%	40%	30%	87%		
5.0	29%	29%	22%	84%		
2.5	22%	22%	17%	69%		
1.25	17%	16%	13%	54%		
0.630	13%	12%	10%	48%		
0.315	10%	9%	8%	40%		
0.160	8%	6%	6%	34%		
0.080	5%	5%	4%	27%		
M.C.(%):	4%	2%	3%	12%		
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:	71	71	78	16		
% SAND:	24	24	18	57		
% FINES:	5	5	4	27		
CLASSIFICATION	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)	WELL-GRADED GRAVEL WITH SAND (GW)	POORLY GRADED GRAVEL WITH SAND (GP)	SILTY SAND WITH GRAVEL (SM)		



PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 616-427
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/29

FIELD NO:	857	858	859	860		
LAB NO:	1634	1635	1636	1637		
DEPTH:	0.6-1.0	1.6-2.0	2.5-2.8	3.6-43		
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	51%	92%	85%	100%		
20.0	45%	90%	77%	94%		
12.5	40%	76%	65%	82%		
10.0	38%	68%	59%	76%		
5.0	28%	52%	48%	63%		
2.5	23%	40%	39%	52%		
1.25	18%	30%	29%	43%		
0.630	15%	23%	22%	36%		
0.315	11%	17%	16%	29%		
0.160	9%	13%	12%	23%		
0.080	7%	10%	9%	18%		
M.C.(%):	4%	3%	4%	6%		
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:	72	48	52	37		
% SAND:	22	42	39	45		
% FINES:	7	10	9	18		
CLASSIFICATION	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY SAND WITH -GRAVEL (SM)		

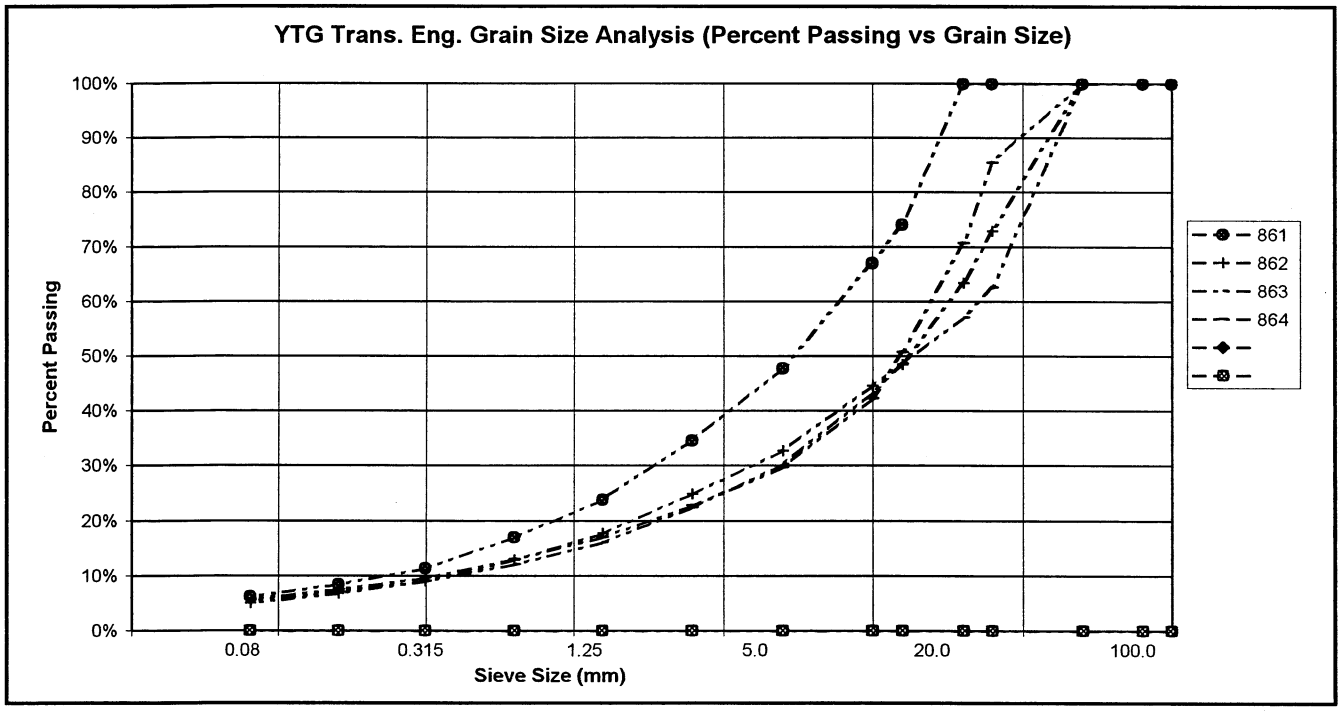


PROJECT NUMBER: 092-202101-0361-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 11
PROJECT LOCATION: Km 1729.6-1787 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: See Testhole Log Sheet
LOGGED BY: G.C.

HOLE No.: 616-428

DATE COMP: 2001/08/29

FIELD NO:	861	862	863	864		
LAB NO:	1638	1639	1640	1641		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.6-4.0		
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%	73%	63%	85%		
20.0	100%	63%	57%	71%		
12.5	74%	48%	49%	51%		
10.0	67%	45%	43%	42%		
5.0	48%	33%	30%	30%		
2.5	35%	25%	22%	23%		
1.25	24%	18%	16%	17%		
0.630	17%	13%	12%	13%		
0.315	11%	9%	9%	10%		
0.160	8%	7%	7%	7%		
0.080	6%	5%	5%	6%		
M.C.(%):	4%	2%	2%	2%		
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:	52	67	70	70		
% SAND:	42	28	25	24		
% FINES:	6	5	5	6		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)		

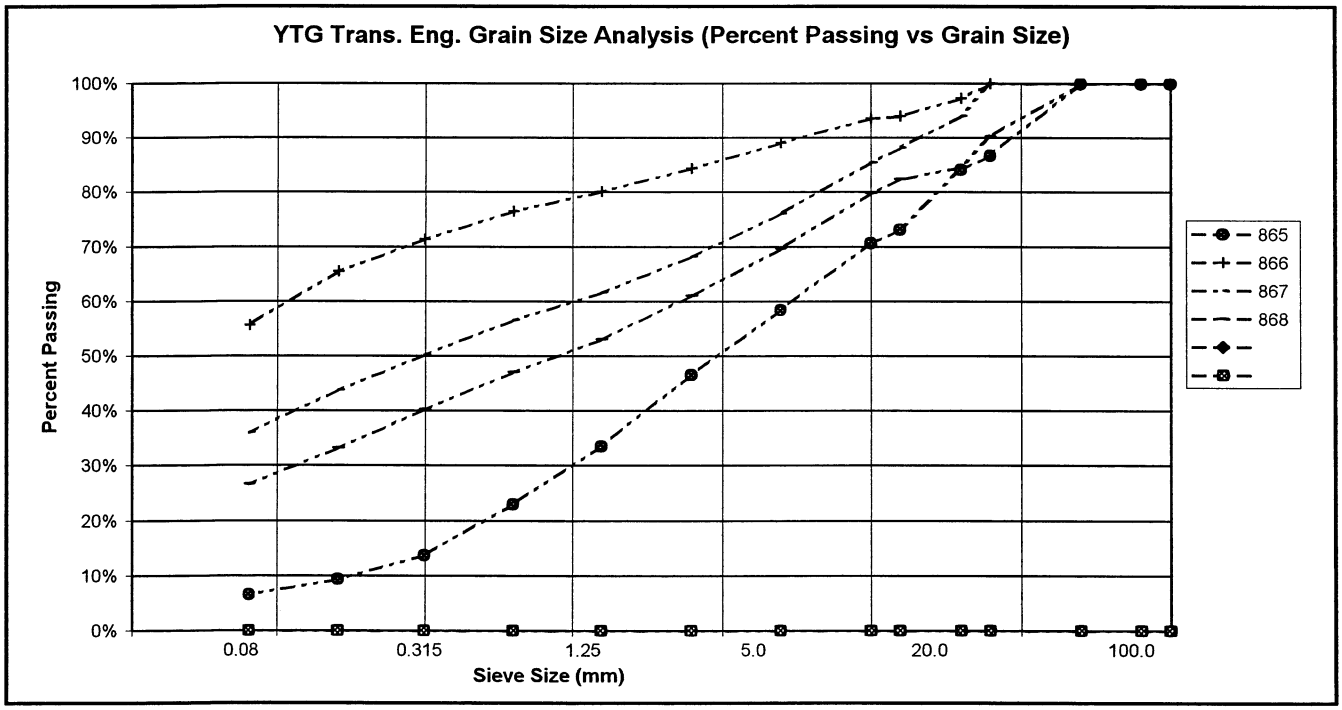


PROJECT NUMBER: 092-202101-0361-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 11
PROJECT LOCATION: Km 1729.6-1787 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: See Testhole Log Sheet
LOGGED BY: G.C.

HOLE No.: 616-429

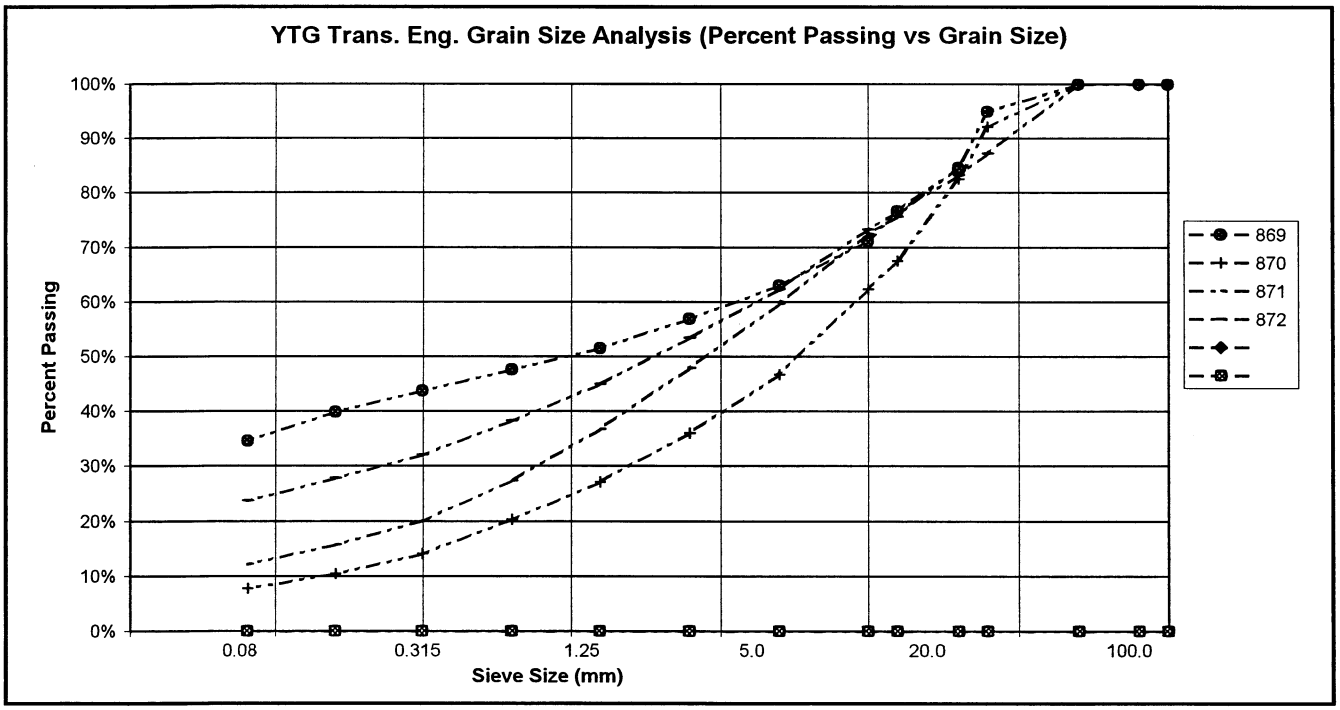
DATE COMP: 2001/08/29

FIELD NO:	865	866	867	868		
LAB NO:	1642	1643	1644	1645		
DEPTH:	0.6-1.0	1.6-2.0	2.8-3.2	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	87%	100%	100%	90%		
20.0	84%	97%	94%	85%		
12.5	73%	94%	88%	82%		
10.0	71%	94%	85%	80%		
5.0	58%	89%	76%	70%		
2.5	47%	84%	68%	61%		
1.25	34%	80%	62%	53%		
0.630	23%	77%	57%	47%		
0.315	14%	71%	50%	40%		
0.160	9%	65%	44%	33%		
0.080	7%	56%	36%	27%		
M.C.(%):	25%	17%	18%	11%		
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:	42	11	24	30		
% SAND:	52	33	40	43		
% FINES:	7	56	36	27		
CLASSIFICATION	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		



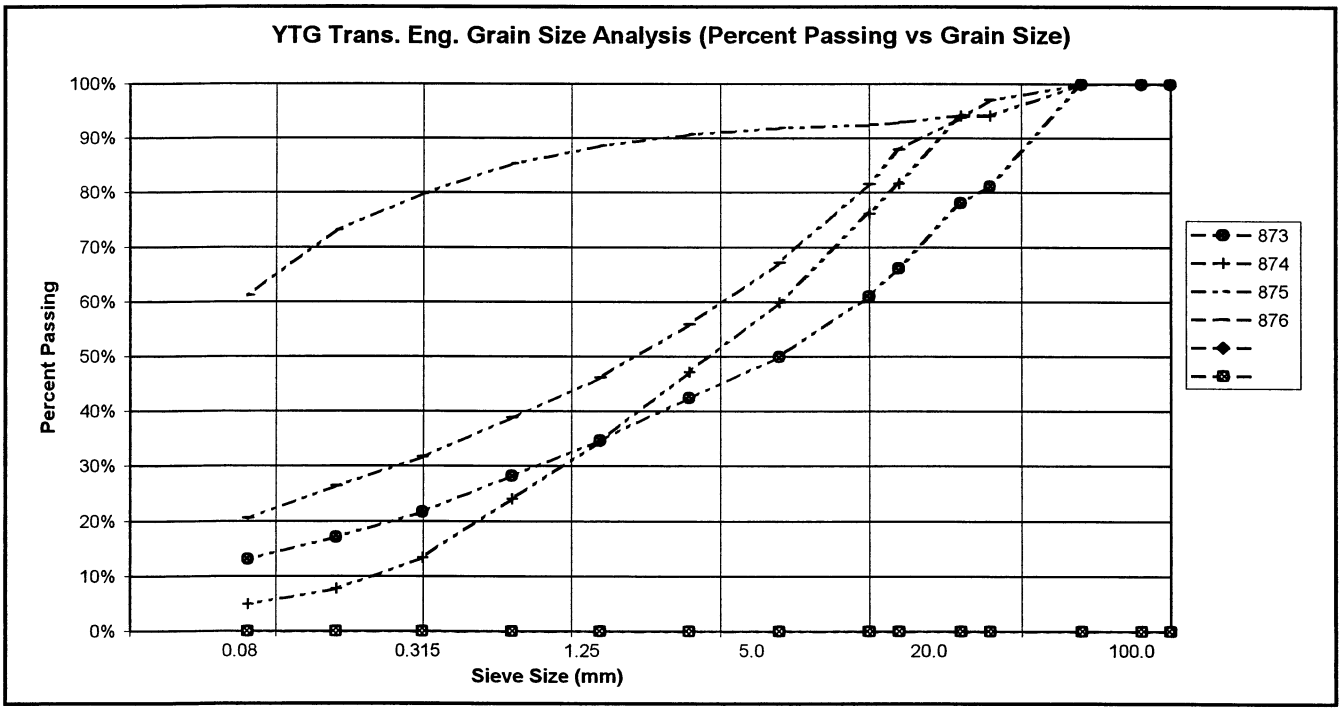
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 616-430
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/29

FIELD NO:	869	870	871	872		
LAB NO:	1646	1647	1648	1649		
DEPTH:	0.3-0.8	1.0-1.5	2.5-3.0	4.0-4.2		
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	95%	92%	95%	87%		
20.0	85%	82%	85%	83%		
12.5	77%	68%	76%	76%		
10.0	71%	62%	72%	73%		
5.0	63%	47%	60%	62%		
2.5	57%	36%	48%	53%		
1.25	52%	27%	37%	45%		
0.630	48%	20%	27%	38%		
0.315	44%	14%	20%	32%		
0.160	40%	10%	16%	28%		
0.080	35%	8%	12%	24%		
M.C.(%):	16%	5%	7%	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:	37	53	40	38		
% SAND:	28	39	47	39		
% FINES:	35	8	12	24		
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		



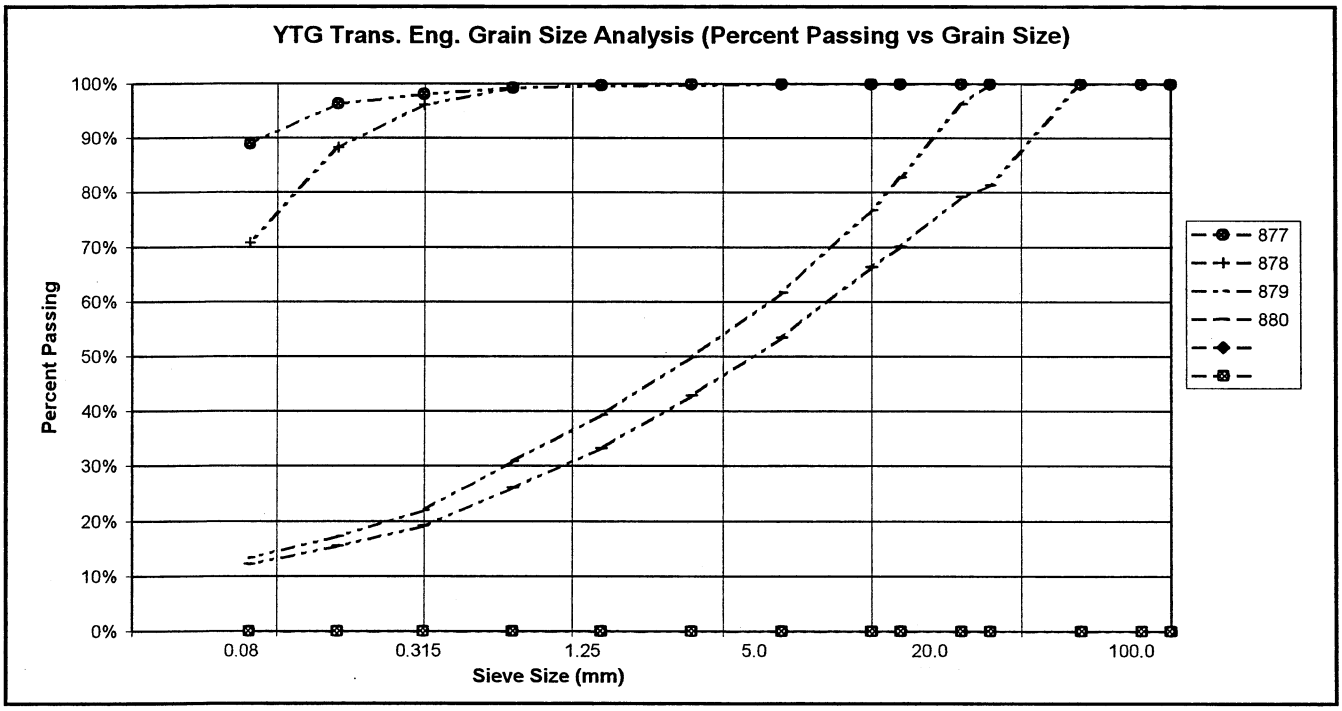
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 616-431
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/29

FIELD NO:	873	874	875	876		
LAB NO:	1650	1651	1652	1653		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	4.0-4.3		
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	81%	94%	94%	97%		
20.0	78%	94%	94%	94%		
12.5	66%	82%	93%	88%		
10.0	61%	76%	92%	82%		
5.0	50%	60%	92%	67%		
2.5	43%	47%	91%	56%		
1.25	35%	34%	89%	46%		
0.630	28%	24%	85%	39%		
0.315	22%	13%	80%	32%		
0.160	17%	8%	73%	26%		
0.080	13%	5%	61%	20%		
M.C.(%):	8%	4%	4%	11%		
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:	50	40	8	33		
% SAND:	37	55	31	47		
% FINES:	13	5	61	20		
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)	WELL-GRADED SAND WITH GRAVEL (SW)	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)		



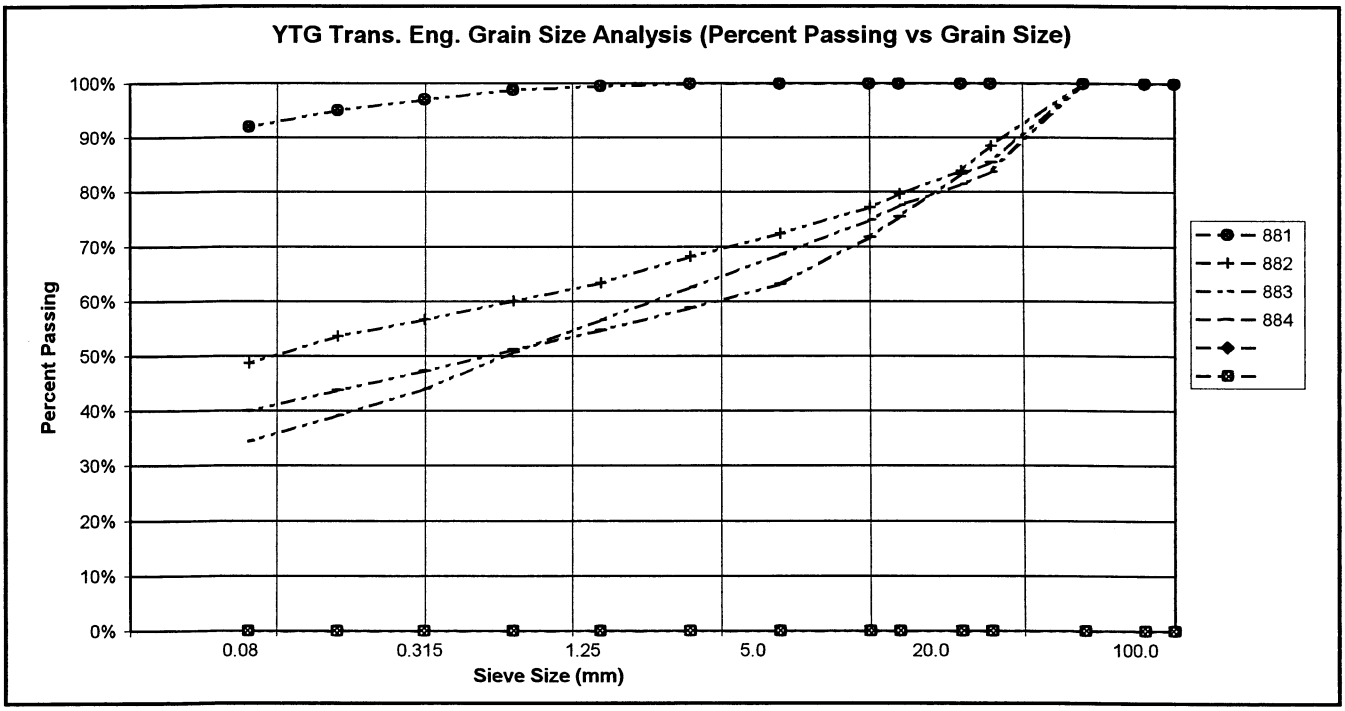
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 616-432
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/30

FIELD NO:	877	878	879	880		
LAB NO:	1654	1655	1656	1657		
DEPTH:	0.8-1.0	1.6-2.0	2.6-3.0	3.6-4.0		
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%	81%		
20.0	100%	100%	96%	79%		
12.5	100%	100%	83%	70%		
10.0	100%	100%	77%	66%		
5.0	100%	100%	62%	53%		
2.5	100%	100%	50%	43%		
1.25	100%	100%	39%	33%		
0.630	99%	99%	31%	26%		
0.315	98%	96%	22%	19%		
0.160	96%	88%	17%	16%		
0.080	89%	71%	13%	12%		
M.C.(%):	38%	27%	7%	7%		
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	38	47		
% SAND:	11	29	48	41		
% FINES:	89	71	13	12		
CLASSIFICATION	SILT (ML)	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)		



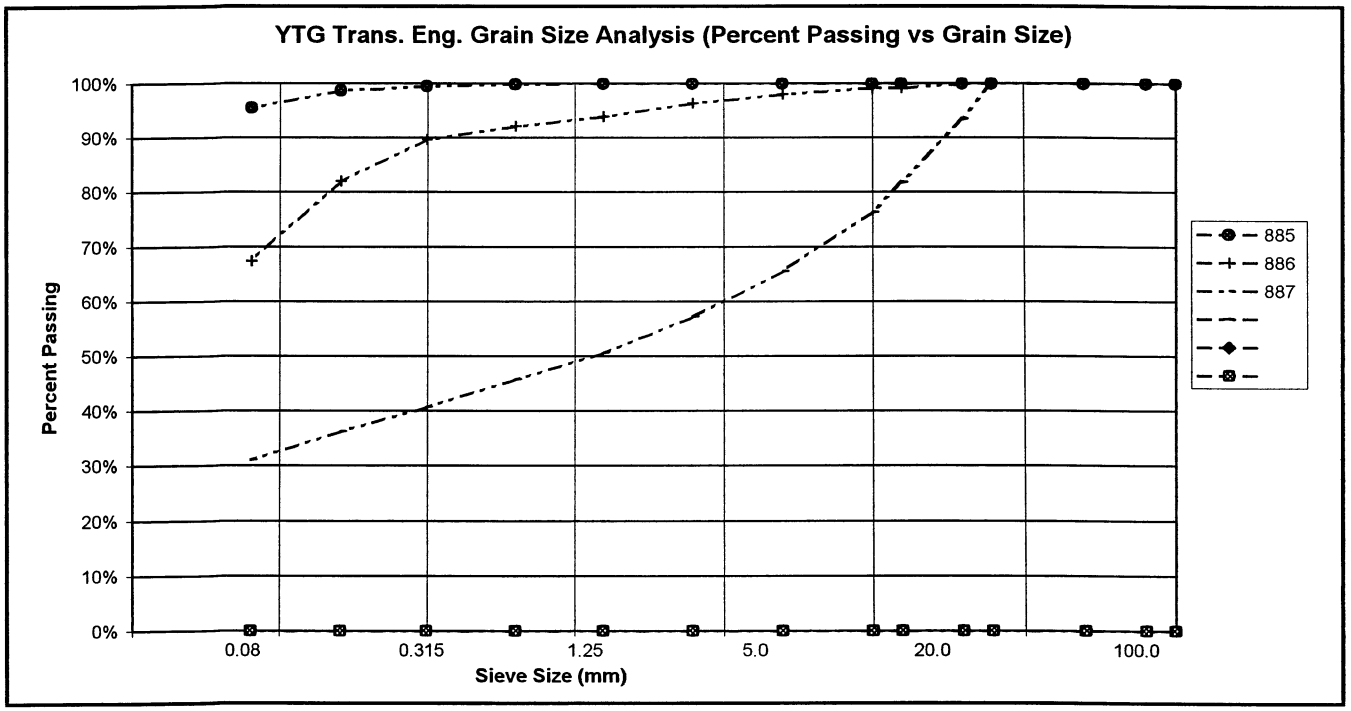
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 616-433
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/30

FIELD NO:	881	882	883	884		
LAB NO:	1658	1659	1660	1661		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.0-4.0		
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%	89%	84%	85%		
20.0	100%	84%	81%	83%		
12.5	100%	80%	78%	75%		
10.0	100%	77%	75%	72%		
5.0	100%	72%	69%	63%		
2.5	100%	68%	63%	59%		
1.25	100%	63%	57%	55%		
0.630	99%	60%	51%	51%		
0.315	97%	57%	44%	47%		
0.160	95%	54%	39%	44%		
0.080	92%	49%	35%	40%		
M.C.(%):	40%	18%	18%	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	28	31	37		
% SAND:	8	24	34	23		
% FINES:	92	49	35	40		
CLASSIFICATION	SILT (ML)	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)		



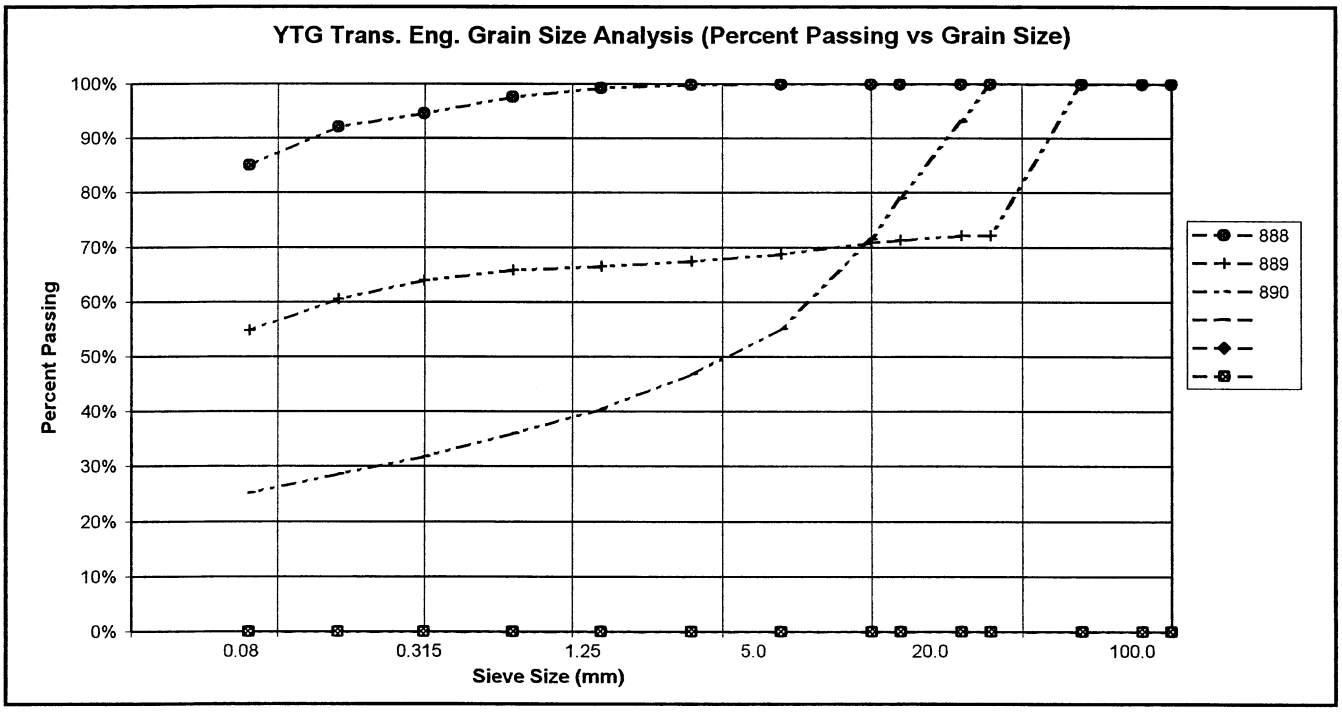
PROJECT NUMBER:	092-202101-0361-1		HOLE No.: 616-434
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 11		
PROJECT LOCATION:	Km 1729.6-1787 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/30

FIELD NO:	885	886	887			
LAB NO:	1662	1663	1664			
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0			
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%	93%			
12.5	100%	99%	82%			
10.0	100%	99%	76%			
5.0	100%	98%	65%			
2.5	100%	96%	57%			
1.25	100%	94%	51%			
0.630	100%	92%	46%			
0.315	99%	90%	41%			
0.160	99%	82%	36%			
0.080	96%	67%	31%			
M.C.(%):	58%	57%	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:	0	2	35			
% SAND:	4	31	34			
% FINES:	96	67	31			
CLASSIFICATION	SILT (ML)	SANDY SILT (ML)	SILTY GRAVEL WITH SAND (GM)			



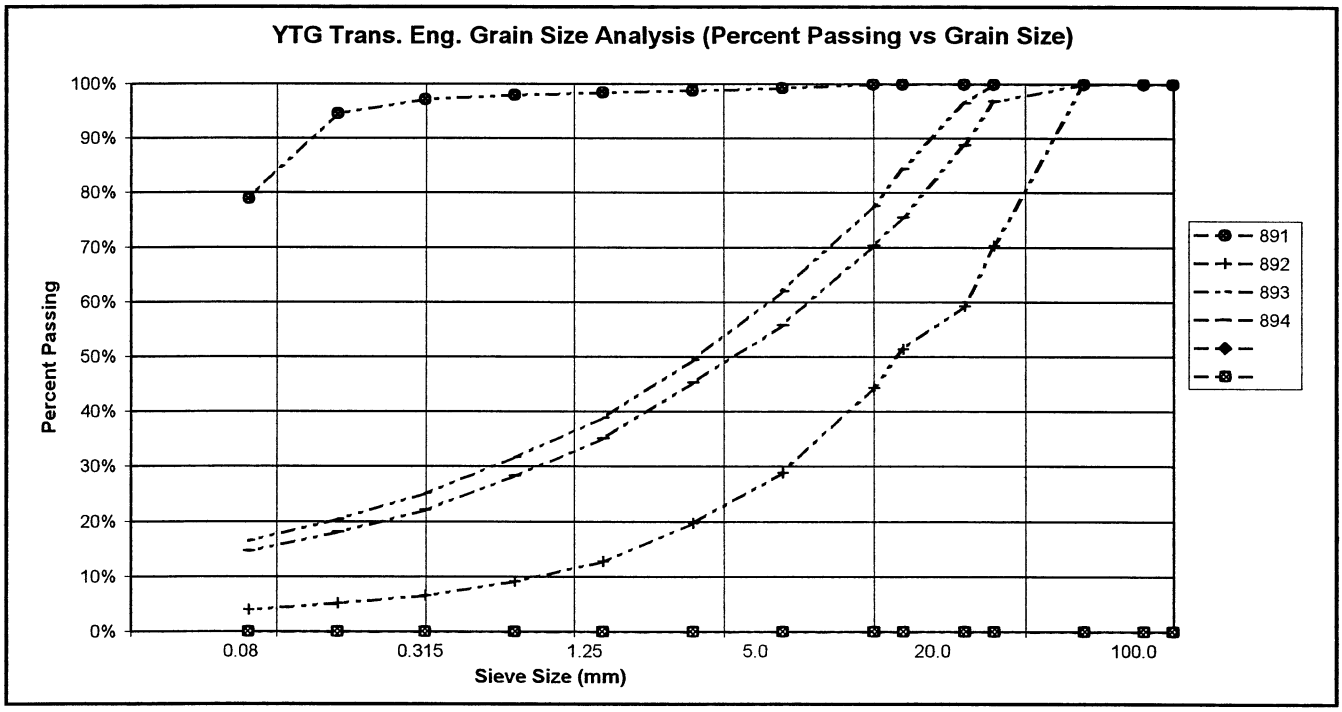
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 617-435
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/30

FIELD NO:	888	889	890			
LAB NO:	1665	1666	1667			
DEPTH:	0.7-1.0	1.6-2.0	2.6-3.0			
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%	72%	100%			
20.0	100%	72%	93%			
12.5	100%	71%	79%			
10.0	100%	71%	72%			
5.0	100%	69%	55%			
2.5	100%	67%	47%			
1.25	99%	67%	41%			
0.630	98%	66%	36%			
0.315	95%	64%	32%			
0.160	92%	61%	29%			
0.080	85%	55%	25%			
M.C.(%):	59%	27%	14%			
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	45			
% SAND:	15	14	30			
% FINES:	85	55	25			
CLASSIFICATION	SILT (ML)	GRAVELLY SILT (ML)	SILTY GRAVEL WITH SAND (GM)			



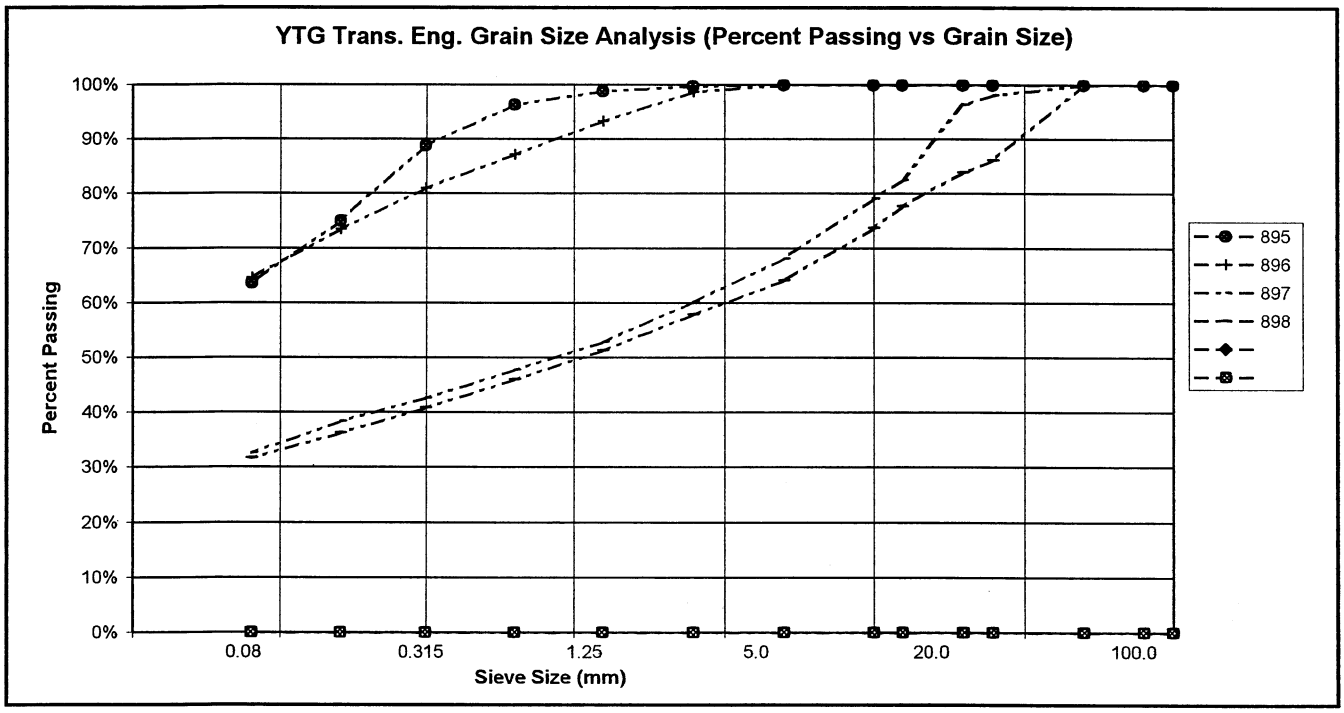
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 617-436
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/28

FIELD NO:	891	892	893	894		
LAB NO:	1668	1669	1670	1671		
DEPTH:	0.6-1.0	1.6-2.0	2.8-3.0	3.6-4.0		
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%	70%	100%	97%		
20.0	100%	59%	96%	89%		
12.5	100%	51%	84%	76%		
10.0	100%	44%	78%	70%		
5.0	99%	29%	62%	56%		
2.5	99%	20%	49%	45%		
1.25	98%	13%	39%	35%		
0.630	98%	9%	32%	28%		
0.315	97%	7%	25%	22%		
0.160	95%	5%	20%	18%		
0.080	79%	4%	17%	15%		
M.C.(%):	23%	2%	3%	3%		
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:	1	71	38	44		
% SAND:	20	25	45	41		
% FINES:	79	4	17	15		
CLASSIFICATION	SILT WITH SAND (ML)	POORLY GRADED GRAVEL WITH SAND (GP)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)		



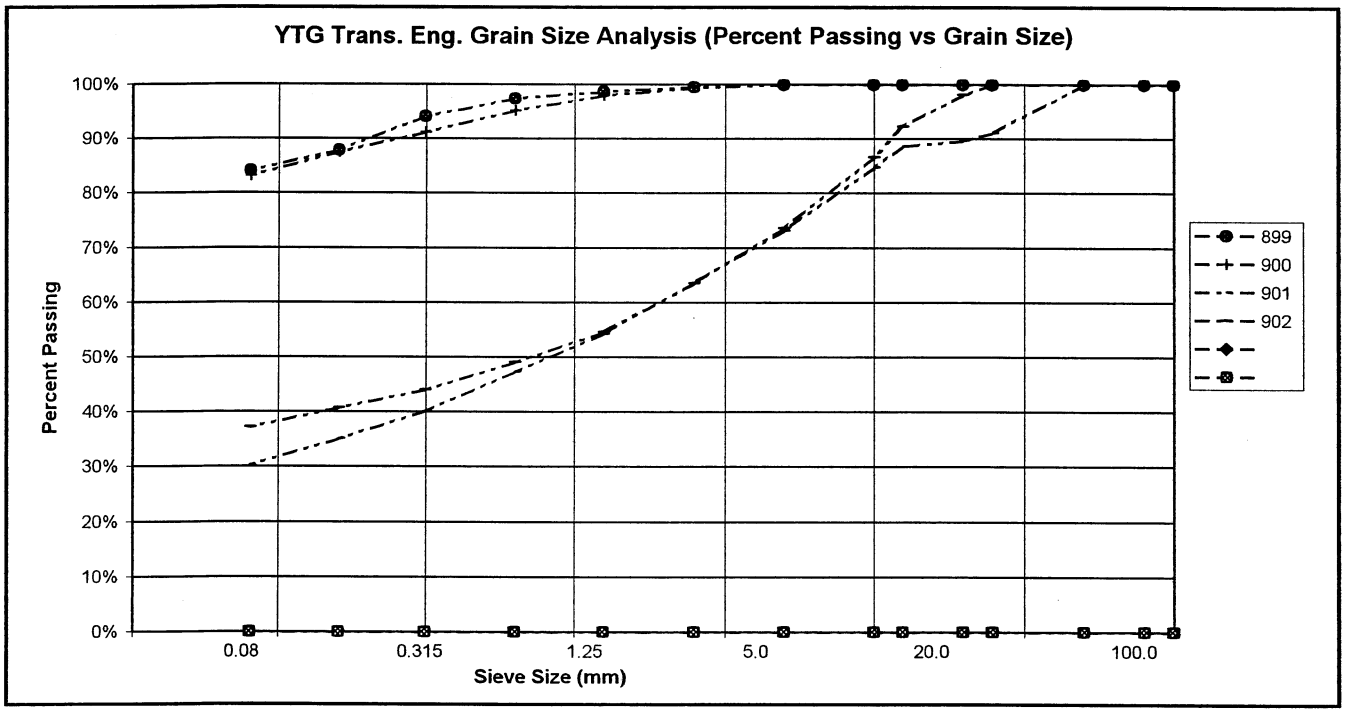
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 617-437
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/28

FIELD NO:	895	896	897	898		
LAB NO:	1672	1673	1674	1675		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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%	98%	86%		
20.0	100%	100%	96%	84%		
12.5	100%	100%	82%	78%		
10.0	100%	100%	79%	74%		
5.0	100%	100%	68%	64%		
2.5	100%	99%	60%	58%		
1.25	99%	93%	53%	51%		
0.630	96%	87%	48%	46%		
0.315	89%	81%	43%	41%		
0.160	75%	73%	38%	36%		
0.080	64%	65%	33%	32%		
M.C.(%):	32%	42%	16%	18%		
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	32	36		
% SAND:	36	35	35	32		
% FINES:	64	65	33	32		
CLASSIFICATION	SANDY SILT (ML)	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)		



PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 617-438
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/28

FIELD NO:	899	900	901	902		
LAB NO:	1676	1677	1678	1679		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.0		
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%	91%	100%		
20.0	100%	100%	90%	98%		
12.5	100%	100%	89%	92%		
10.0	100%	100%	85%	87%		
5.0	100%	100%	73%	74%		
2.5	100%	99%	64%	63%		
1.25	99%	98%	54%	55%		
0.630	97%	95%	47%	49%		
0.315	94%	91%	40%	44%		
0.160	88%	88%	35%	41%		
0.080	84%	83%	30%	37%		
M.C.(%):	41%	40%	14%	17%		
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	27	26		
% SAND:	16	17	43	36		
% FINES:	84	83	30	37		
CLASSIFICATION	SILT WITH SAND (ML)	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

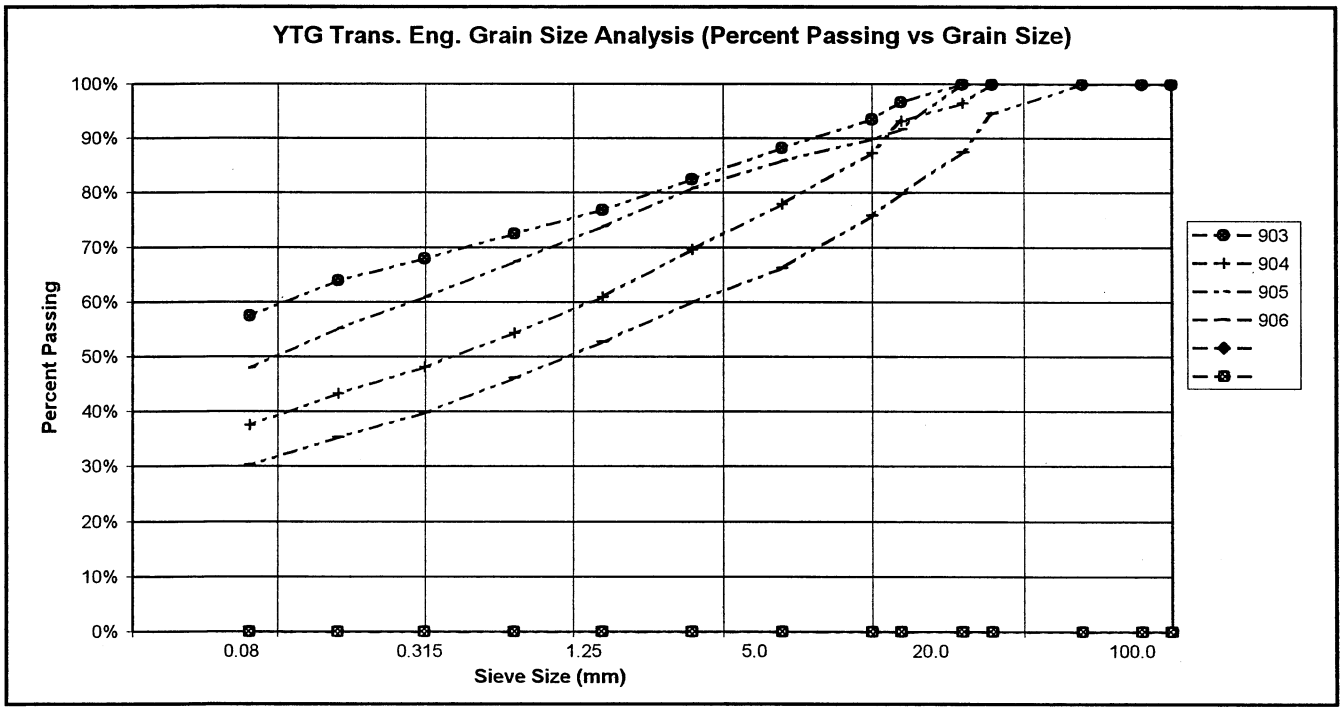


PROJECT NUMBER: 092-202101-0362-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 10
PROJECT LOCATION: Km 1692.6-1729.6 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: See Testhole Log Sheet
LOGGED BY: G.C.

HOLE No.: 617-439

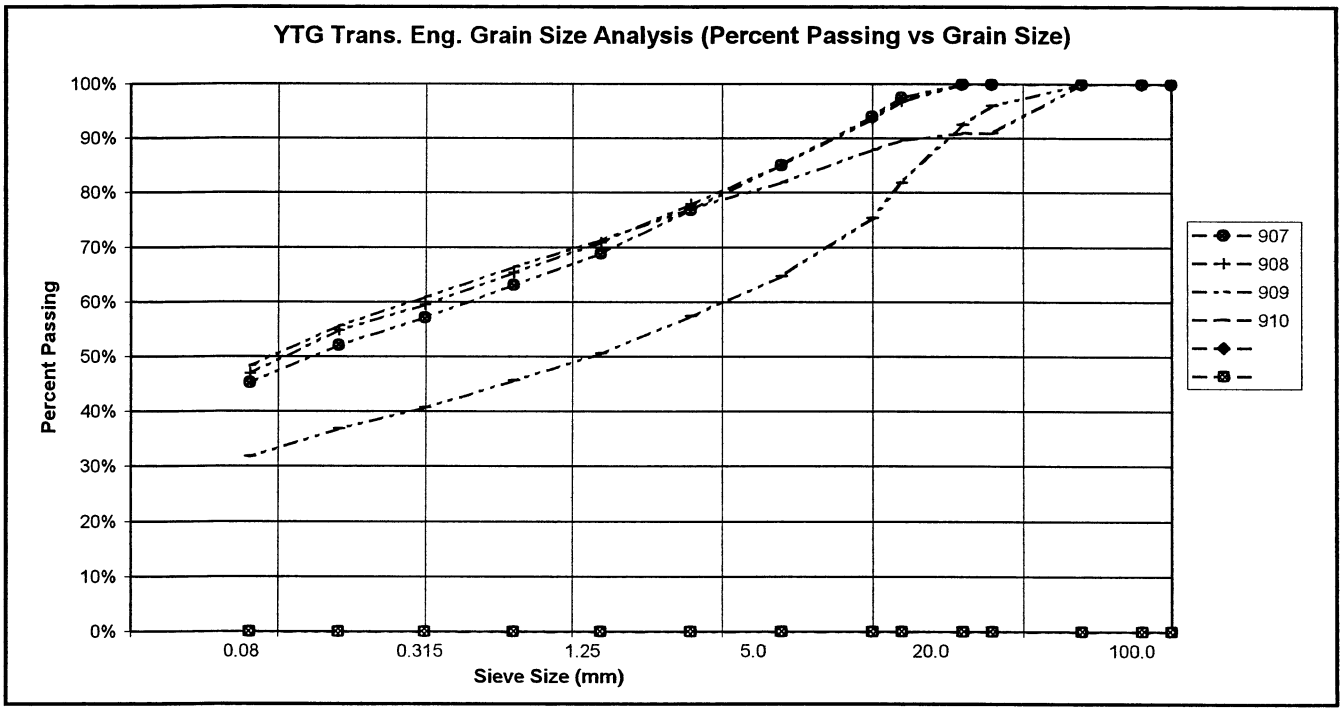
DATE COMP: 2001/08/28

FIELD NO:	903	904	905	906		
LAB NO:	1680	1681	1682	1683		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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%	95%		
20.0	100%	97%	100%	87%		
12.5	97%	93%	92%	80%		
10.0	94%	87%	90%	76%		
5.0	88%	78%	86%	66%		
2.5	83%	70%	81%	60%		
1.25	77%	61%	74%	53%		
0.630	73%	54%	67%	46%		
0.315	68%	48%	61%	40%		
0.160	64%	43%	55%	35%		
0.080	58%	38%	48%	30%		
M.C.(%):	17%	8%	9%	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:	12	22	14	34		
% SAND:	31	40	38	36		
% FINES:	58	38	48	30		
CLASSIFICATION	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)		



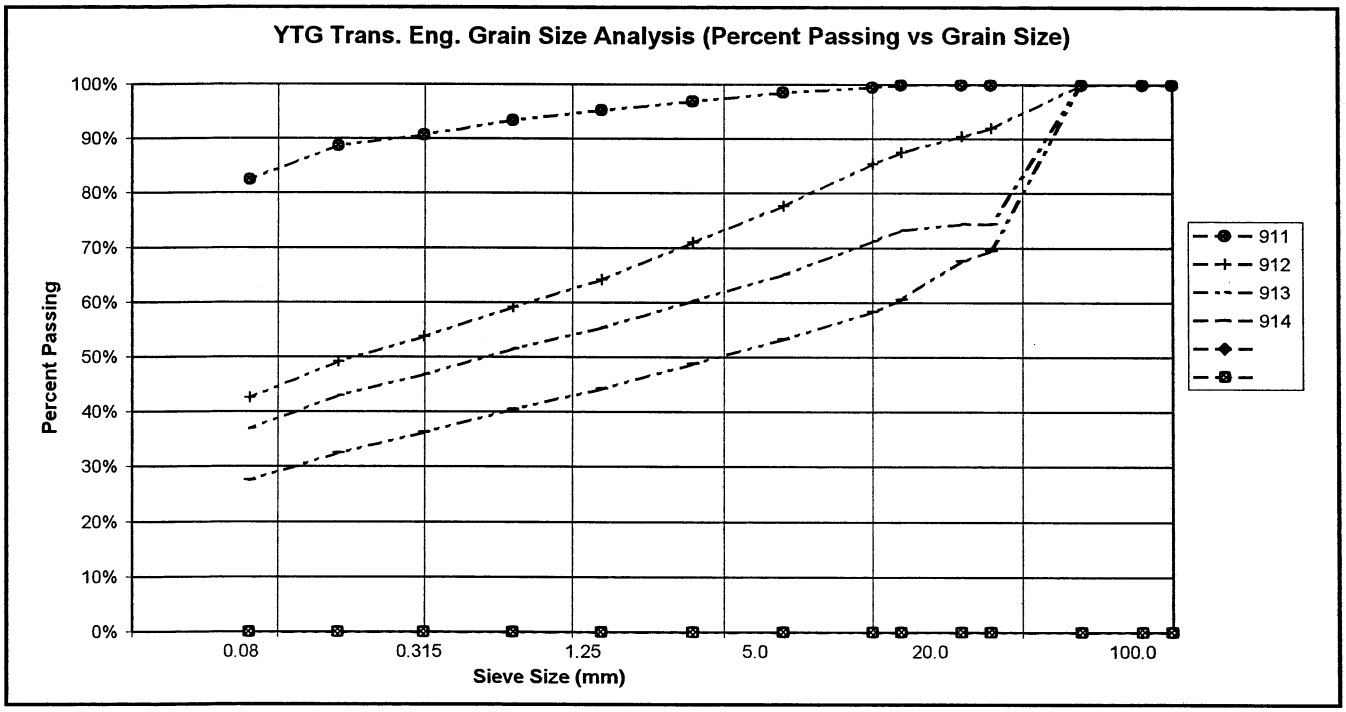
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 617-440
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/28

FIELD NO:	907	908	909	910		
LAB NO:	1684	1685	1686	1687		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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%	91%	96%		
20.0	100%	100%	91%	93%		
12.5	98%	97%	90%	82%		
10.0	94%	94%	88%	75%		
5.0	85%	85%	82%	65%		
2.5	77%	78%	77%	57%		
1.25	69%	71%	71%	51%		
0.630	63%	65%	66%	46%		
0.315	57%	59%	61%	41%		
0.160	52%	55%	56%	37%		
0.080	45%	47%	48%	32%		
M.C.(%):	10%	11%	9%	6%		
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:	15	15	18	35		
% SAND:	40	38	34	33		
% FINES:	45	47	48	32		
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)		



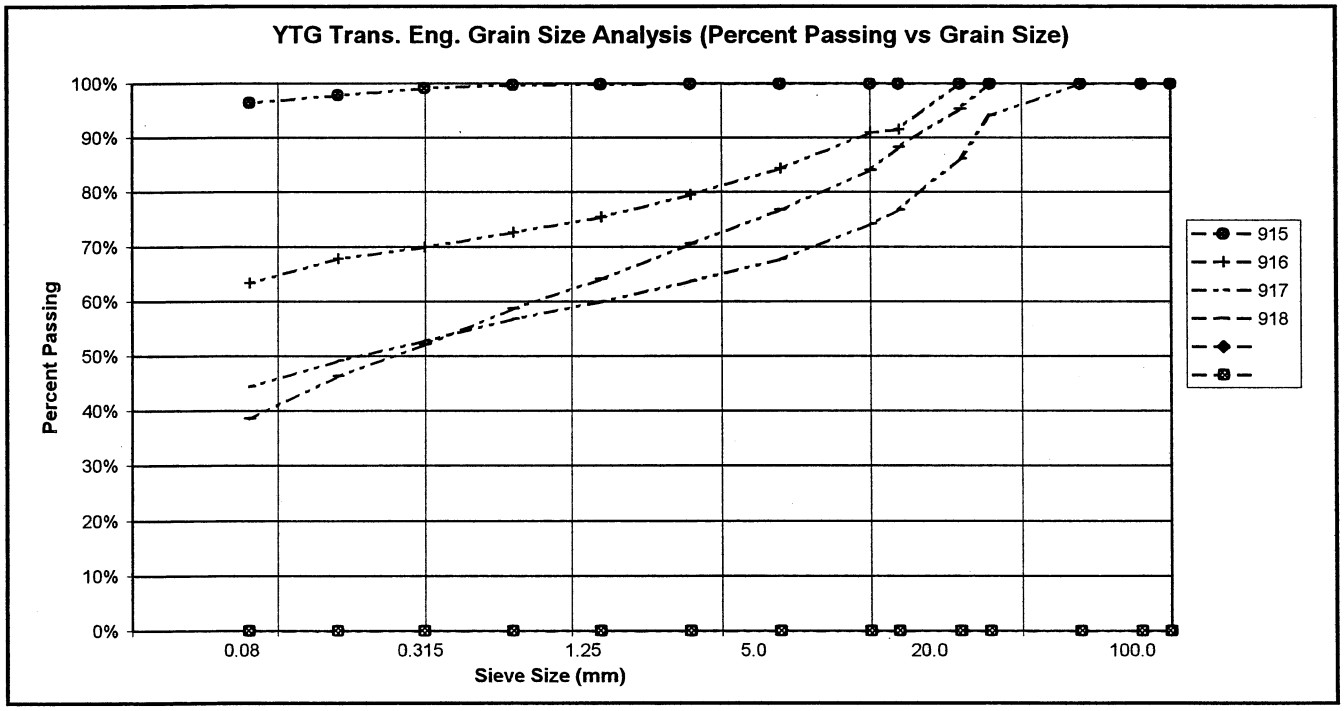
PROJECT NUMBER:	092-202101-0362-1	HOLE No.: 617-441
CLIENT:	ENGINEERING CAPITAL	
PROJECT NAME:	SHAKWAK SEG 10	
PROJECT LOCATION:	Km 1692.6-1729.6 A/H	
DRILL UNIT:	MOBILE B40 L	
HOLE LOCATION:	See Testhole Log Sheet	
LOGGED BY:	G.C.	DATE COMP: 2001/08/28

FIELD NO:	911	912	913	914		
LAB NO:	1688	1689	1690	1691		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.6-4.0		
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%	92%	74%	70%		
20.0	100%	90%	74%	68%		
12.5	100%	88%	73%	61%		
10.0	100%	85%	71%	58%		
5.0	99%	78%	65%	53%		
2.5	97%	71%	60%	49%		
1.25	95%	64%	55%	44%		
0.630	93%	59%	52%	40%		
0.315	91%	54%	47%	36%		
0.160	89%	49%	43%	33%		
0.080	83%	43%	37%	28%		
M.C.(%):	20%	9%	9%	7%		
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:	1	22	35	47		
% SAND:	16	35	28	26		
% FINES:	83	43	37	28		
CLASSIFICATION	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)	SILTY GRAVEL WITH SAND (GM)		



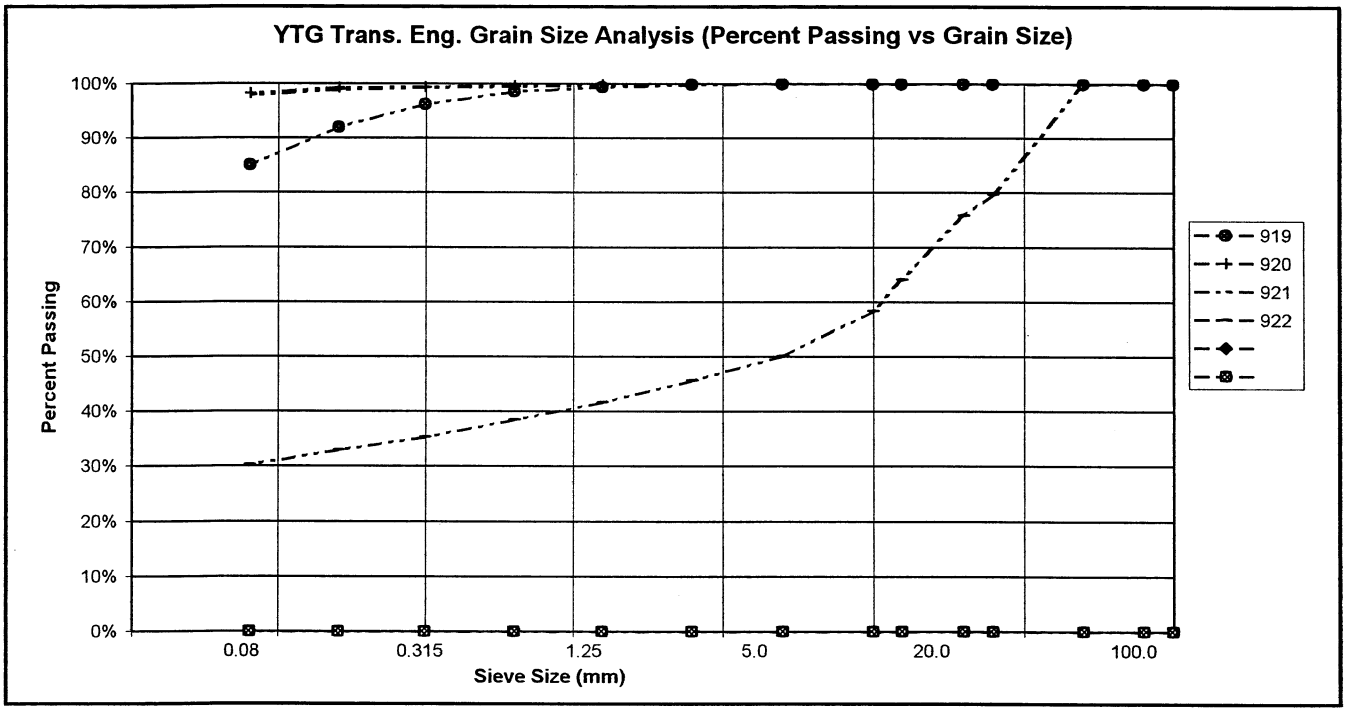
PROJECT NUMBER:	092-202101-0362-1	HOLE No.: 617-442
CLIENT:	ENGINEERING CAPITAL	
PROJECT NAME:	SHAKWAK SEG 10	
PROJECT LOCATION:	Km 1692.6-1729.6 A/H	
DRILL UNIT:	MOBILE B40 L	
HOLE LOCATION:	See Testhole Log Sheet	
LOGGED BY:	G.C.	DATE COMP: 2001/08/28

FIELD NO:	915	916	917	918		
LAB NO:	1692	1693	1694	1695		
DEPTH:	0.8-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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%	94%	100%		
20.0	100%	100%	86%	95%		
12.5	100%	92%	77%	88%		
10.0	100%	91%	74%	84%		
5.0	100%	84%	68%	77%		
2.5	100%	80%	64%	71%		
1.25	100%	75%	60%	64%		
0.630	100%	73%	57%	59%		
0.315	99%	70%	53%	52%		
0.160	98%	68%	49%	46%		
0.080	96%	63%	44%	39%		
M.C.(%):	46%	19%	20%	10%		
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	16	32	23		
% SAND:	3	21	23	38		
% FINES:	96	63	44	39		
CLASSIFICATION	SILT (ML)	SANDY SILT WITH GRAVEL (ML)	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)		



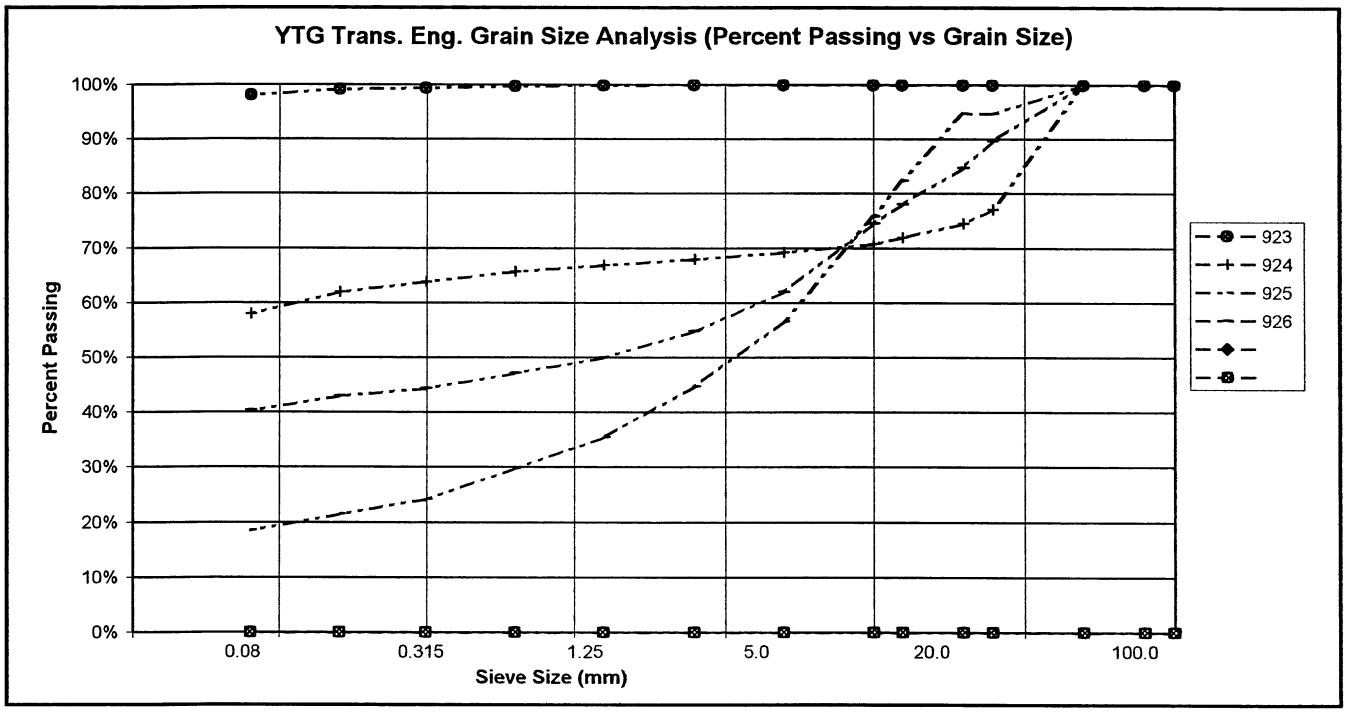
PROJECT NUMBER:	092-202101-0362-1	HOLE No.: 617-443
CLIENT:	ENGINEERING CAPITAL	
PROJECT NAME:	SHAKWAK SEG 10	
PROJECT LOCATION:	Km 1692.6-1729.6 A/H	
DRILL UNIT:	MOBILE B40 L	
HOLE LOCATION:	See Testhole Log Sheet	
LOGGED BY:	G.C.	DATE COMP: 2001/08/28

FIELD NO:	919	920	921	922		
LAB NO:	1696	1697	1698	1699		
DEPTH:	0.6-1.0	1.0-1.5	2.6-3.0	3.8-4.3		
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%	80%		
20.0	100%	100%	100%	76%		
12.5	100%	100%	100%	64%		
10.0	100%	100%	100%	58%		
5.0	100%	100%	100%	50%		
2.5	100%	100%	100%	46%		
1.25	99%	100%	100%	42%		
0.630	99%	100%	100%	38%		
0.315	96%	99%	99%	35%		
0.160	92%	99%	99%	33%		
0.080	85%	98%	98%	30%		
M.C.(%):	39%	39%	41%	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	50		
% SAND:	15	2	2	20		
% FINES:	85	98	98	30		
CLASSIFICATION	SILT (ML)	SILT (ML)	SILT (ML)	SILTY GRAVEL WITH SAND (GM)		



PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 617-444
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/28

FIELD NO:	923	924	925	926		
LAB NO:	1700	1701	1702	1703		
DEPTH:	0.6-1.0	1.75-2.0	2.6-3.0	3.8-4.3		
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%	77%	95%	90%		
20.0	100%	75%	95%	85%		
12.5	100%	72%	82%	78%		
10.0	100%	71%	76%	75%		
5.0	100%	69%	57%	62%		
2.5	100%	68%	45%	55%		
1.25	100%	67%	35%	50%		
0.630	100%	66%	30%	47%		
0.315	99%	64%	24%	44%		
0.160	99%	62%	21%	43%		
0.080	98%	58%	19%	40%		
M.C.(%):	46%	19%	7%	18%		
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	31	43	38		
% SAND:	2	11	38	22		
% FINES:	98	58	19	40		
CLASSIFICATION	SILT (ML)	GRAVELLY SILT (ML)	SILTY GRAVEL WITH SAND (GM)	SILTY GRAVEL WITH SAND (GM)		

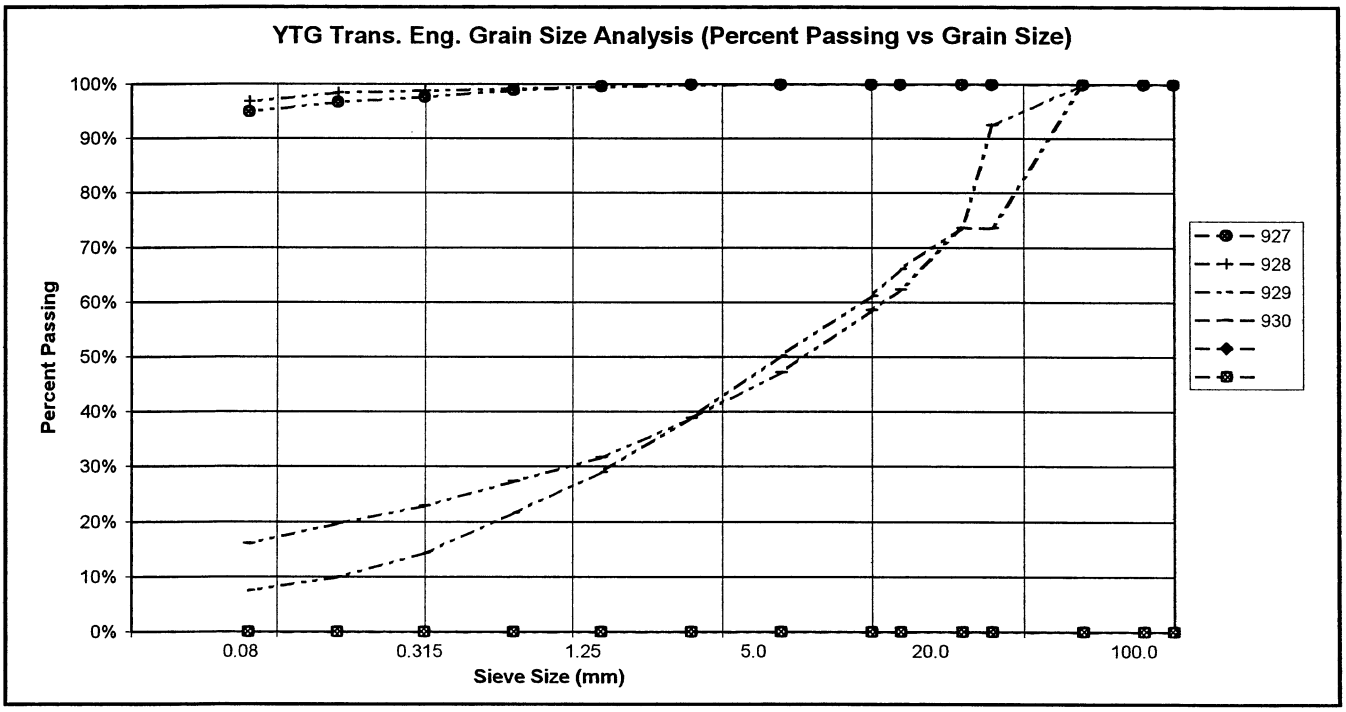


PROJECT NUMBER: 092-202101-0362-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 10
PROJECT LOCATION: Km 1692.6-1729.6 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: See Testhole Log Sheet
LOGGED BY: G.C.

HOLE No.: 617-445

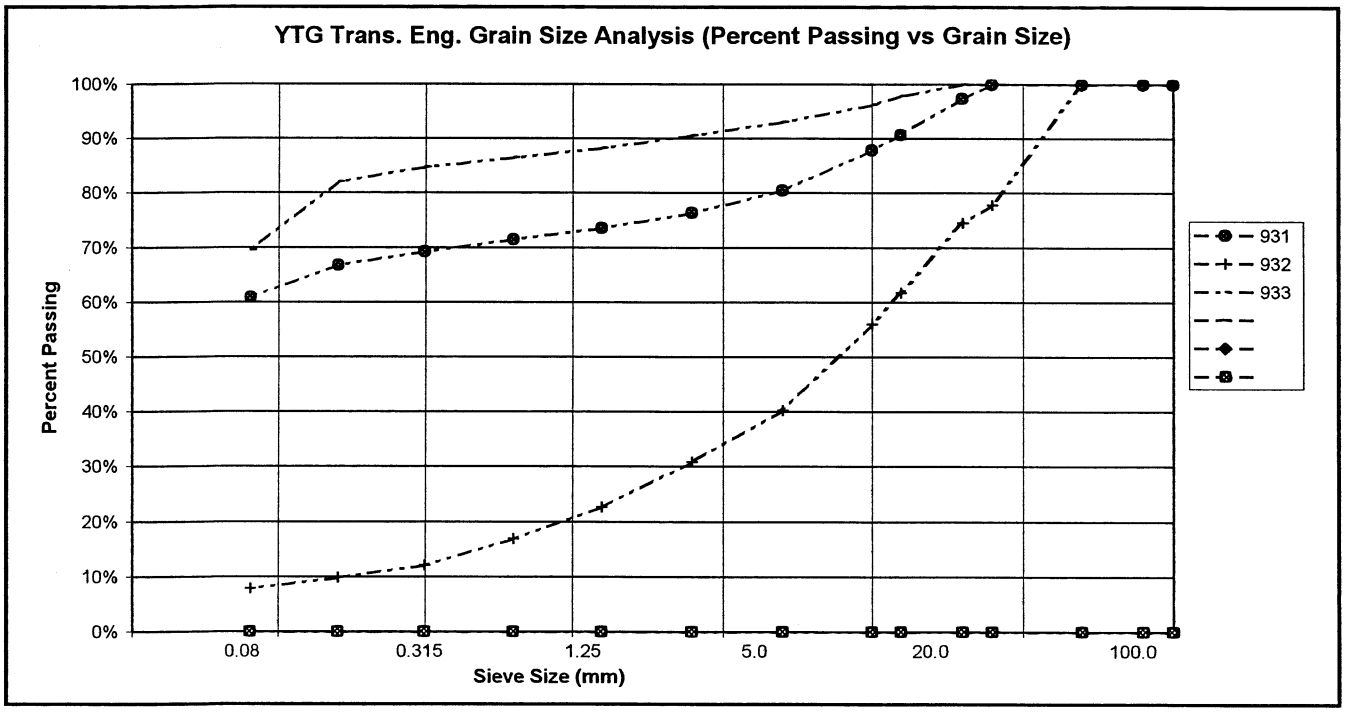
DATE COMP: 2001/08/31

FIELD NO:	927	928	929	930		
LAB NO:	1704	1705	1706	1707		
DEPTH:	0.75-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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%	74%	92%		
20.0	100%	100%	74%	74%		
12.5	100%	100%	66%	62%		
10.0	100%	100%	61%	59%		
5.0	100%	100%	50%	47%		
2.5	100%	100%	39%	39%		
1.25	100%	100%	29%	32%		
0.630	99%	99%	22%	27%		
0.315	98%	99%	14%	23%		
0.160	97%	98%	10%	20%		
0.080	95%	97%	7%	16%		
M.C.(%):	58%	30%	4%	6%		
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	50	53		
% SAND:	5	3	43	31		
% FINES:	95	97	7	16		
CLASSIFICATION	SILT (ML)	SILT (ML)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY GRAVEL WITH SAND (GM)		



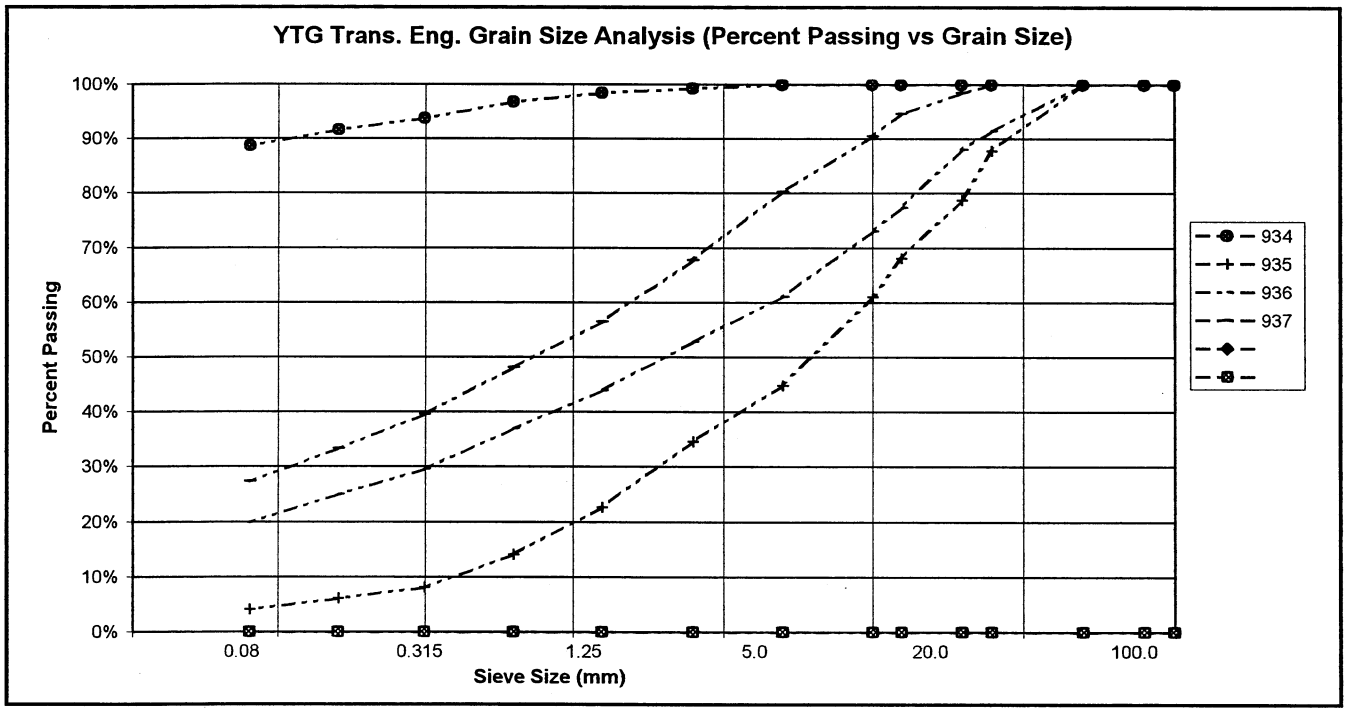
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 617-446
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/31

FIELD NO:	931	932	933			
LAB NO:	1708	1709	1710			
DEPTH:	1.2-1.75	2.5-3.0	3.8-4.3			
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%	78%	100%			
20.0	97%	74%	100%			
12.5	91%	62%	98%			
10.0	88%	56%	96%			
5.0	81%	40%	93%			
2.5	76%	31%	91%			
1.25	74%	23%	88%			
0.630	72%	17%	87%			
0.315	69%	12%	85%			
0.160	67%	10%	82%			
0.080	61%	8%	70%			
M.C.(%):	20%	3%	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:	19	60	7			
% SAND:	20	32	24			
% FINES:	61	8	70			
CLASSIFICATION	SANDY SILT WITH GRAVEL (ML)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SANDY SILT (ML)			



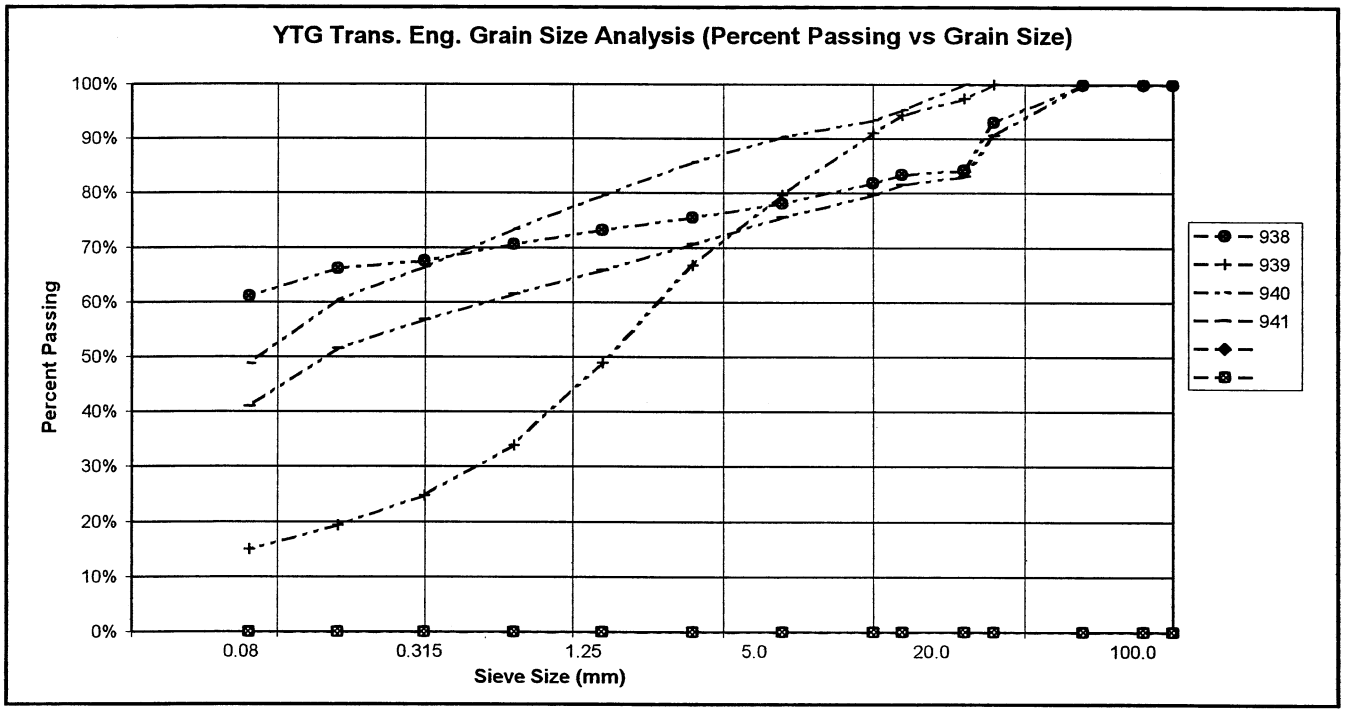
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 617-447
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/31

FIELD NO:	934	935	936	937		
LAB NO:	1711	1712	1713	1714		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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%	88%	91%	100%		
20.0	100%	79%	88%	98%		
12.5	100%	68%	77%	95%		
10.0	100%	61%	73%	90%		
5.0	100%	45%	61%	80%		
2.5	99%	35%	53%	68%		
1.25	98%	23%	44%	56%		
0.630	97%	14%	37%	48%		
0.315	94%	8%	30%	40%		
0.160	92%	6%	25%	33%		
0.080	89%	4%	20%	27%		
M.C.(%):	30%	2%	6%	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:	0	55	39	20		
% SAND:	11	41	41	53		
% FINES:	89	4	20	27		
CLASSIFICATION	SILT (ML)	POORLY GRADED GRAVEL WITH SAND (GP)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		



PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 617-448
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/31

FIELD NO:	938	939	940	941		
LAB NO:	1715	1716	1717	1718		
DEPTH:	0.4-0.8	1.4-1.8	2.6-3.0	3.8-4.3		
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	93%	100%	100%	91%		
20.0	84%	97%	100%	83%		
12.5	83%	94%	95%	82%		
10.0	82%	91%	93%	80%		
5.0	78%	80%	90%	76%		
2.5	76%	67%	86%	71%		
1.25	73%	49%	80%	66%		
0.630	71%	34%	73%	61%		
0.315	68%	25%	66%	57%		
0.160	66%	19%	60%	51%		
0.080	61%	15%	49%	41%		
M.C.(%):	21%	5%	9%	8%		
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:	22	20	10	24		
% SAND:	17	65	42	35		
% FINES:	61	15	49	41		
CLASSIFICATION	GRAVELLY SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)		

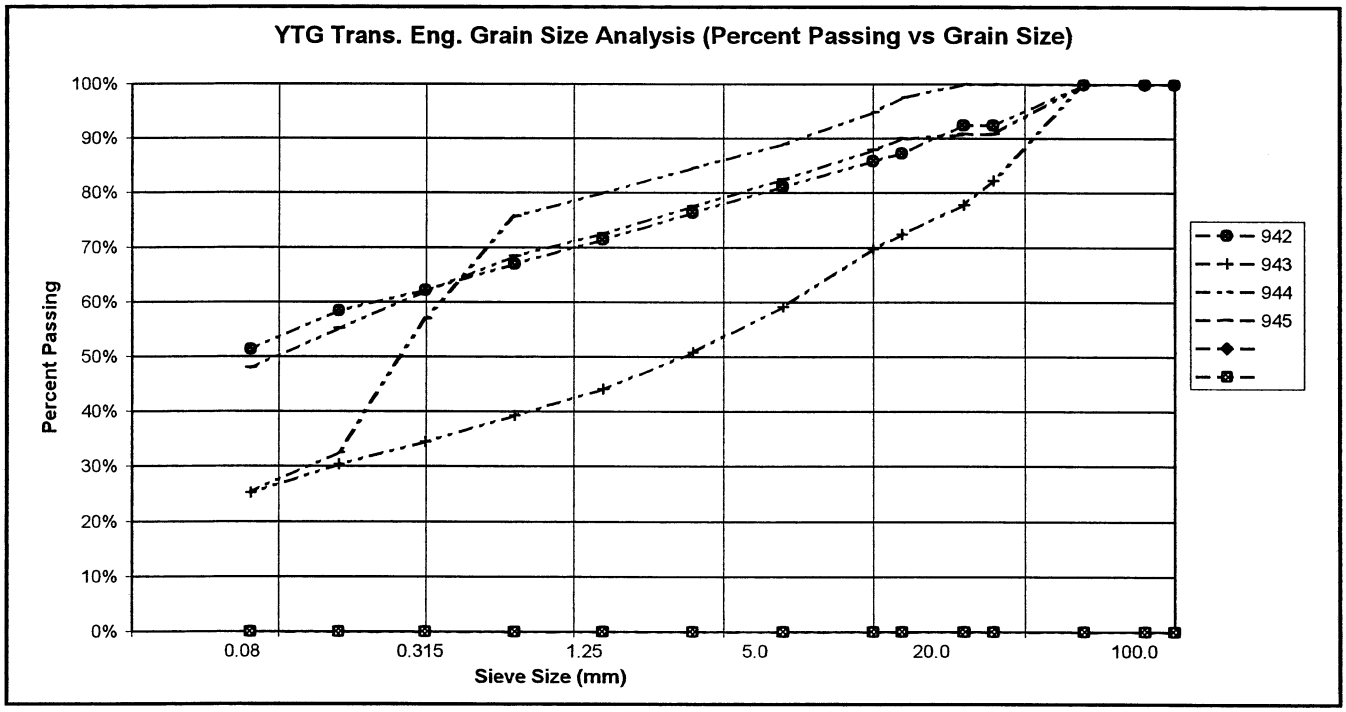


PROJECT NUMBER: 092-202101-0362-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 10
PROJECT LOCATION: Km 1692.6-1729.6 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: See Testhole Log Sheet
LOGGED BY: G.C.

HOLE No.: 617-449

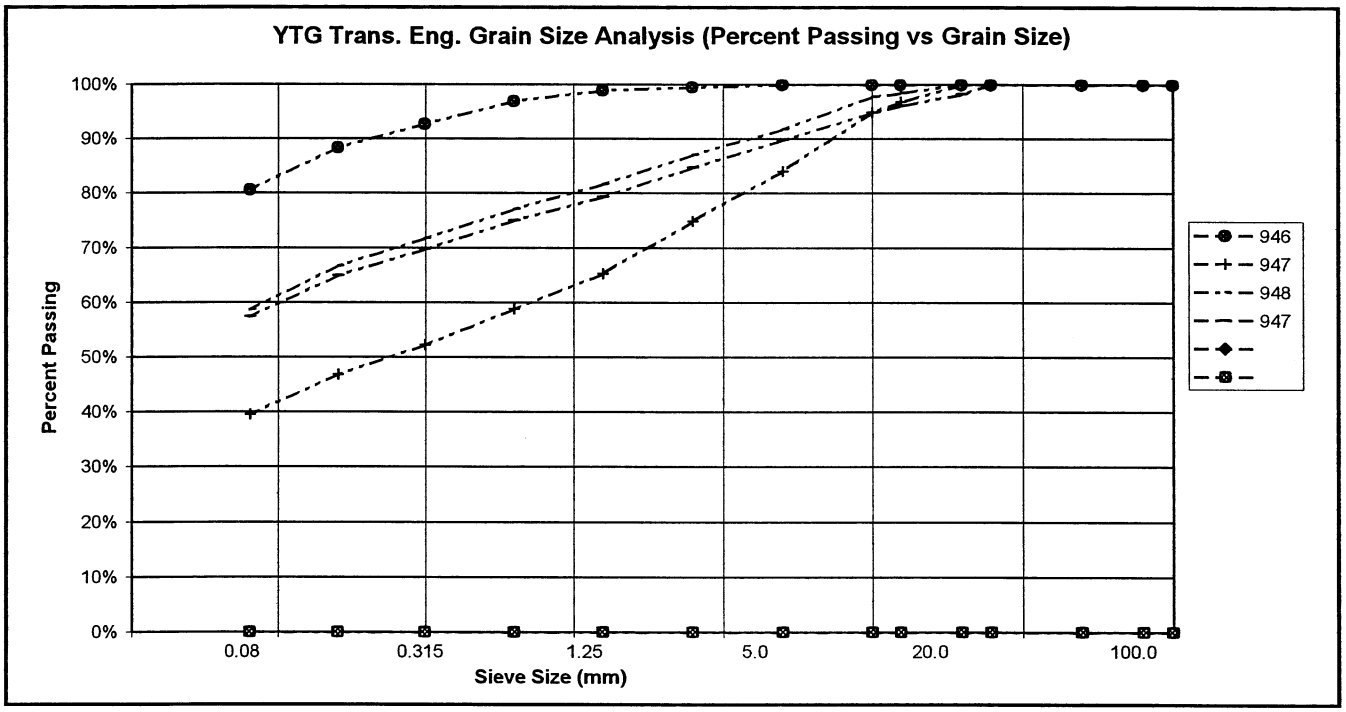
DATE COMP: 2001/08/31

FIELD NO:	942	943	944	945		
LAB NO:	1719	1720	1721	1722		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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	93%	82%	100%	91%		
20.0	93%	78%	100%	91%		
12.5	87%	72%	98%	90%		
10.0	86%	70%	95%	88%		
5.0	81%	59%	89%	83%		
2.5	76%	51%	85%	78%		
1.25	71%	44%	80%	73%		
0.630	67%	39%	76%	68%		
0.315	62%	34%	57%	62%		
0.160	58%	30%	33%	55%		
0.080	51%	25%	26%	48%		
M.C.(%):	16%	6%	14%	11%		
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:	19	41	11	17		
% SAND:	30	34	63	34		
% FINES:	51	25	26	48		
CLASSIFICATION	SANDY SILT WITH GRAVEL (ML)	SILTY GRAVEL WITH SAND (GM)	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)		



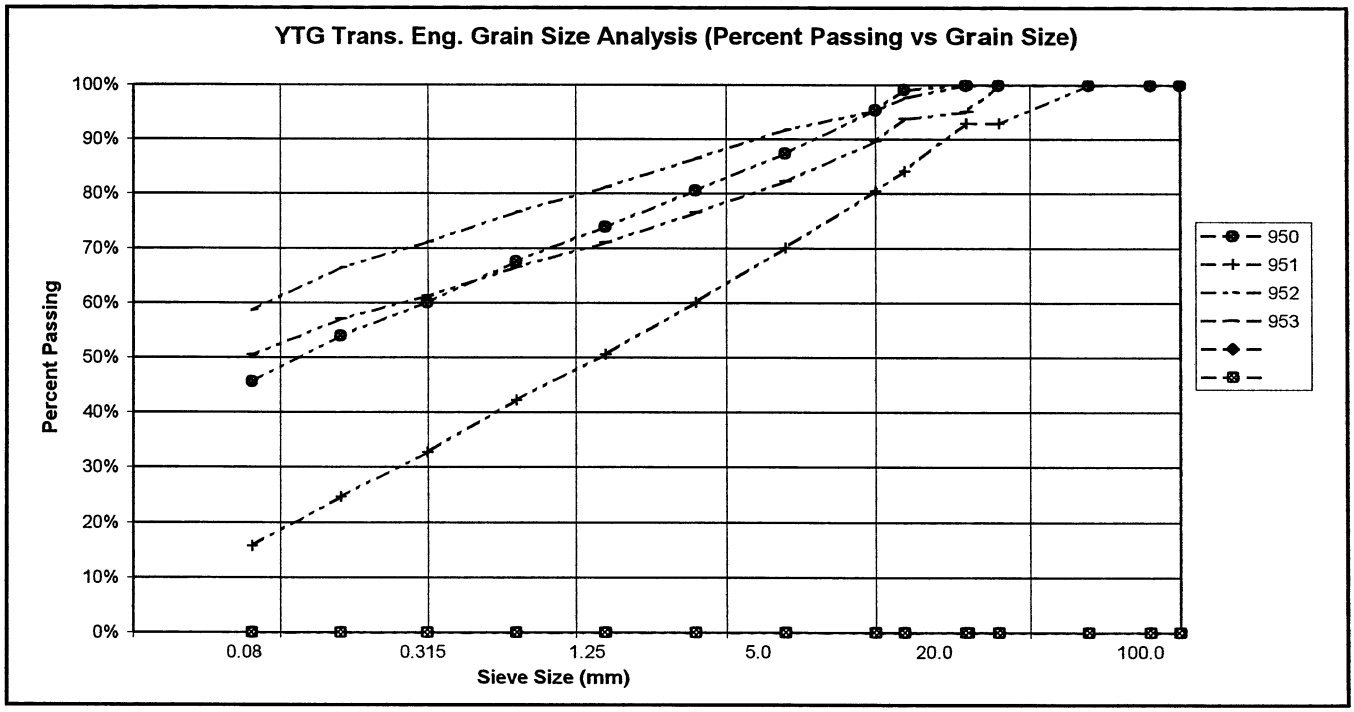
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 617-450
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/31

FIELD NO:	946	947	948	947		
LAB NO:	1723	1724	1725	1726		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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%	100%		
20.0	100%	100%	100%	98%		
12.5	100%	97%	98%	96%		
10.0	100%	95%	98%	95%		
5.0	100%	84%	92%	90%		
2.5	100%	75%	87%	85%		
1.25	99%	65%	82%	79%		
0.630	97%	59%	77%	75%		
0.315	93%	52%	72%	70%		
0.160	88%	47%	67%	65%		
0.080	81%	40%	59%	57%		
M.C.(%):	28%	12%	14%	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	16	8	10		
% SAND:	19	45	33	32		
% FINES:	81	40	59	57		
CLASSIFICATION	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)	SANDY SILT (ML)		



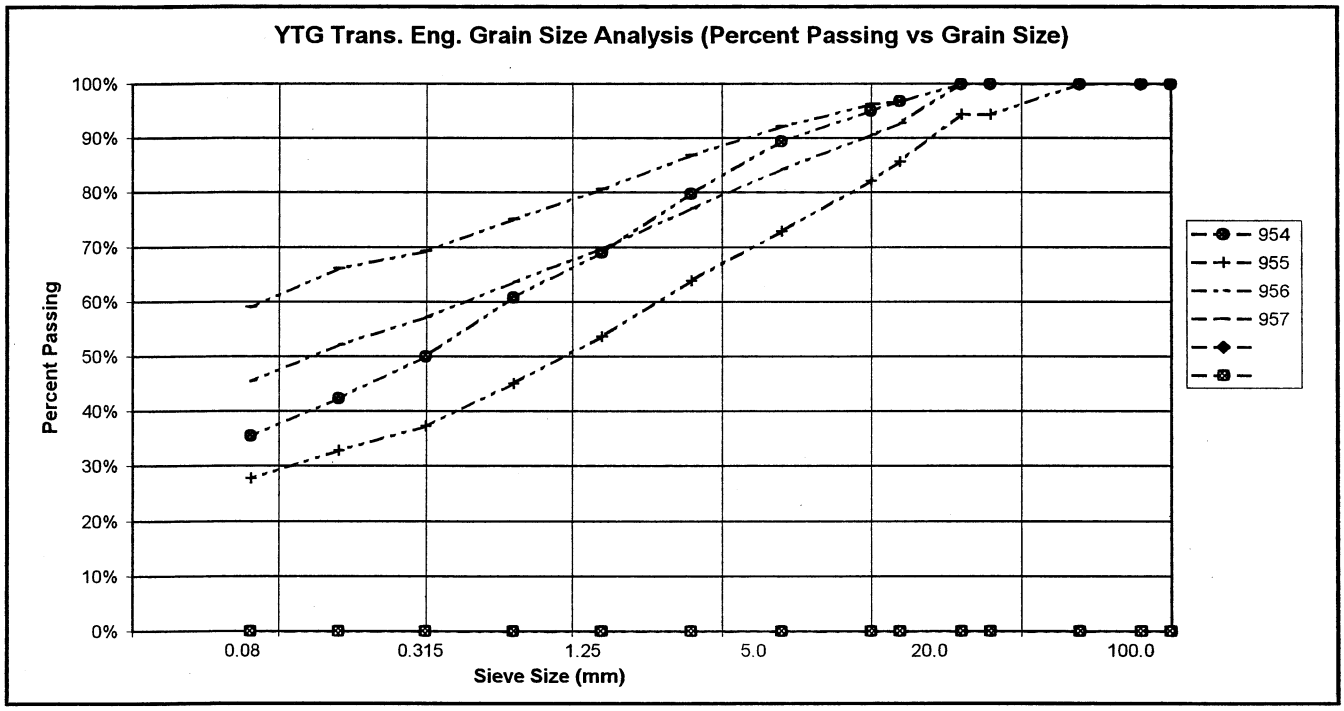
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 617-451
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/31

FIELD NO:	950	951	952	953		
LAB NO:	1727	1728	1729	1730		
DEPTH:	0.6-1.0	1.6-2.0	2.8-3.2	3.8-4.3		
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%	93%	100%	100%		
20.0	100%	93%	100%	95%		
12.5	99%	84%	98%	94%		
10.0	95%	80%	95%	90%		
5.0	87%	70%	92%	82%		
2.5	81%	60%	86%	77%		
1.25	74%	51%	81%	71%		
0.630	68%	42%	77%	66%		
0.315	60%	33%	71%	61%		
0.160	54%	25%	66%	57%		
0.080	46%	16%	59%	50%		
M.C.(%):	12%	11%	13%	12%		
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:	13	30	8	18		
% SAND:	42	54	33	32		
% FINES:	46	16	59	50		
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)	SANDY SILT WITH GRAVEL (ML)		



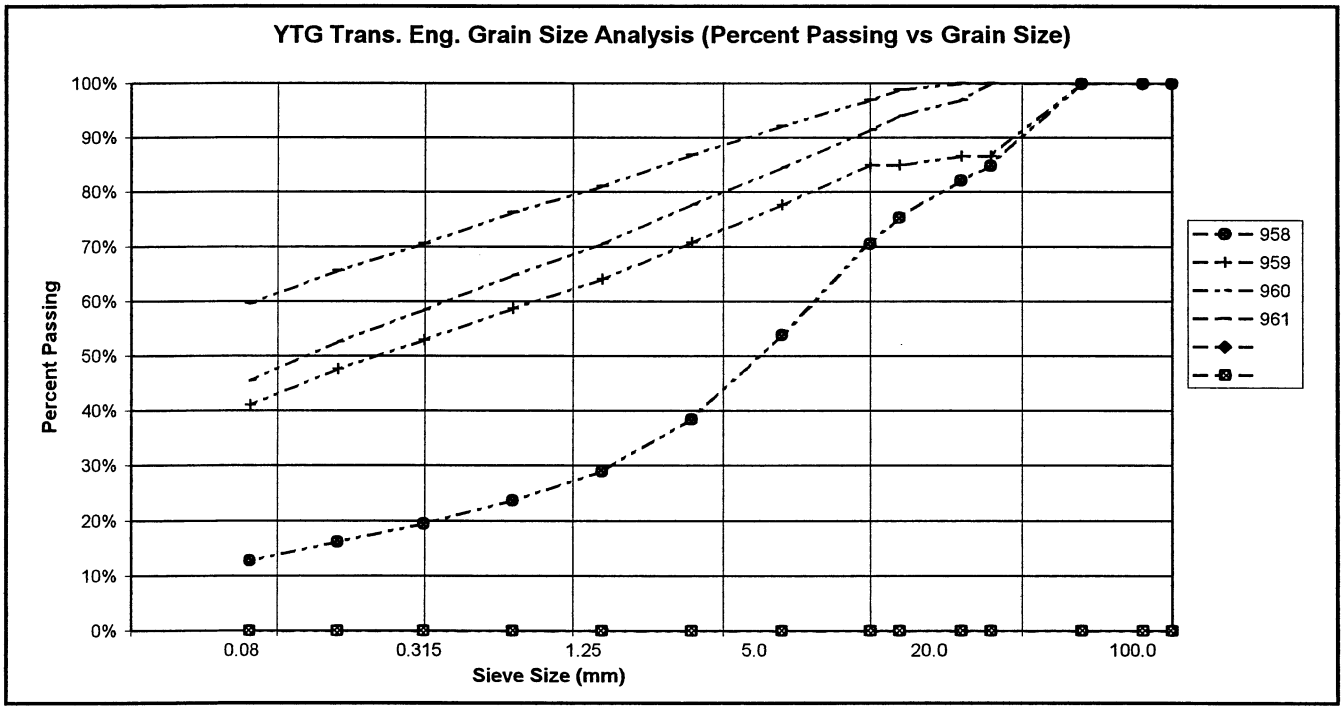
PROJECT NUMBER:	092-202101-0362-1	HOLE No.: 617-452
CLIENT:	ENGINEERING CAPITAL	
PROJECT NAME:	SHAKWAK SEG 10	
PROJECT LOCATION:	Km 1692.6-1729.6 A/H	
DRILL UNIT:	MOBILE B40 L	
HOLE LOCATION:	See Testhole Log Sheet	
LOGGED BY:	G.C.	DATE COMP: 2001/08/31

FIELD NO:	954	955	956	957		
LAB NO:	1731	1732	1733	1734		
DEPTH:	0.4-0.8	1.6-2.0	2.4-2.8	3.75-4.3		
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%	94%	100%	100%		
20.0	100%	94%	100%	100%		
12.5	97%	86%	93%	97%		
10.0	95%	82%	91%	96%		
5.0	89%	73%	84%	92%		
2.5	80%	64%	77%	87%		
1.25	69%	54%	70%	81%		
0.630	61%	45%	64%	75%		
0.315	50%	37%	57%	69%		
0.160	42%	33%	52%	66%		
0.080	36%	28%	46%	59%		
M.C.(%):	12%	12%	14%	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:	11	27	16	8		
% SAND:	54	45	39	33		
% FINES:	36	28	46	59		
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)		



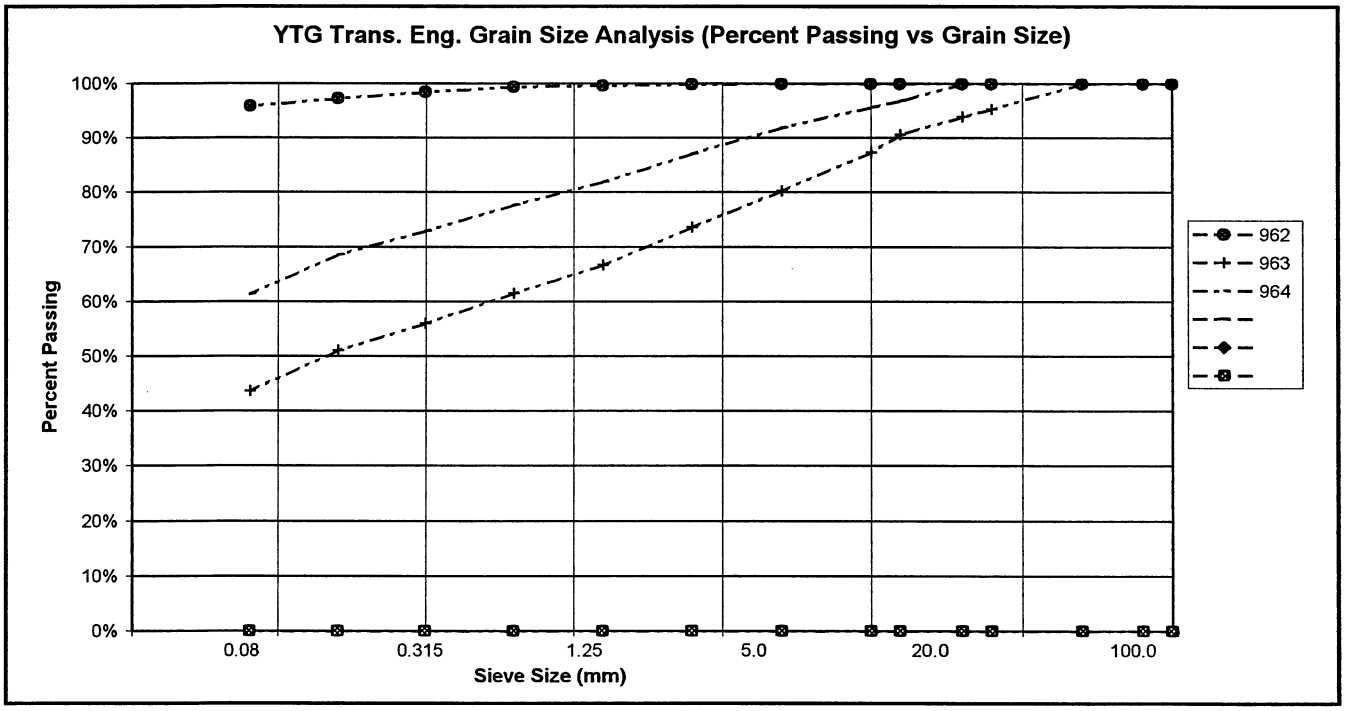
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 617-453
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/31

FIELD NO:	958	959	960	961		
LAB NO:	1735	1736	1737	1738		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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	85%	87%	100%	100%		
20.0	82%	87%	97%	100%		
12.5	75%	85%	94%	99%		
10.0	71%	85%	91%	97%		
5.0	54%	78%	84%	92%		
2.5	39%	71%	78%	87%		
1.25	29%	64%	71%	81%		
0.630	24%	59%	65%	76%		
0.315	19%	53%	58%	71%		
0.160	16%	48%	53%	66%		
0.080	13%	41%	46%	60%		
M.C.(%):	7%	13%	10%	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:	46	22	16	8		
% SAND:	41	37	39	32		
% FINES:	13	41	46	60		
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)		



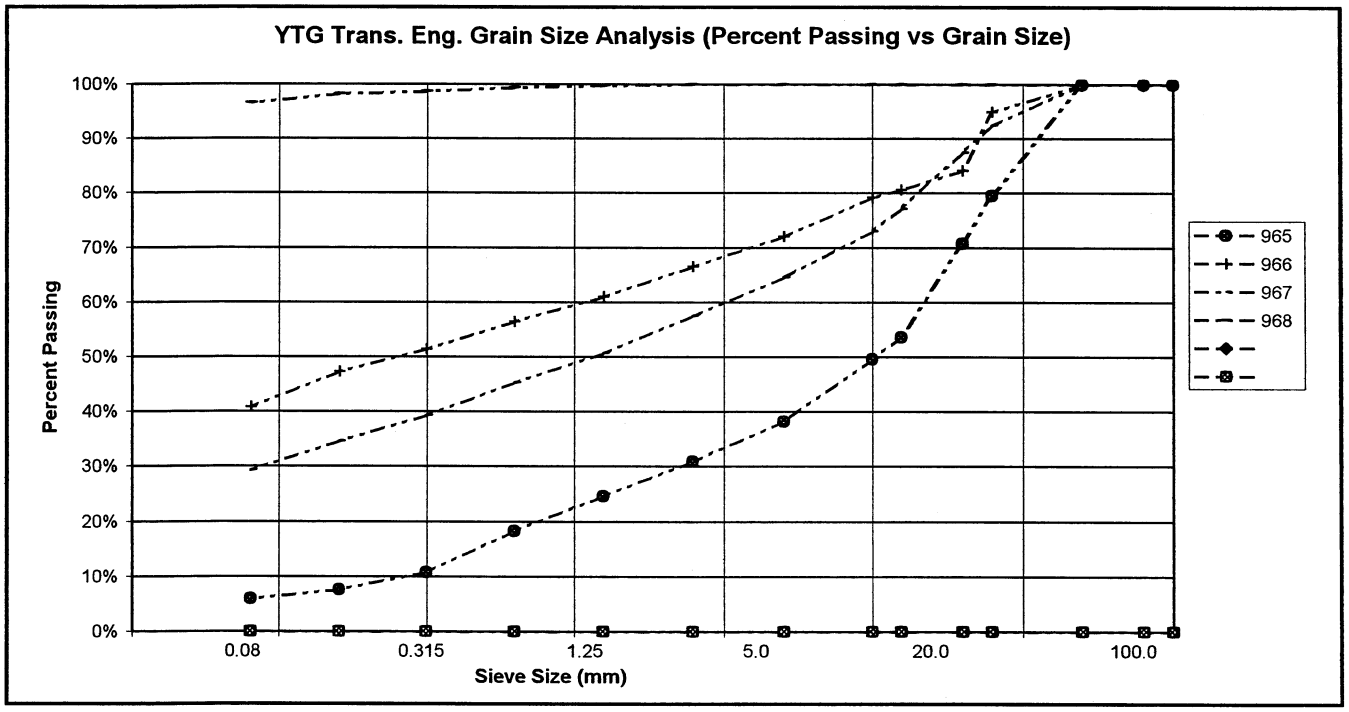
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 617-454
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/31

FIELD NO:	962	963	964			
LAB NO:	1739	1740	1741			
DEPTH:	0.5-0.75	1.6-2.0	2.6-3.0			
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%	95%	100%			
20.0	100%	94%	100%			
12.5	100%	91%	97%			
10.0	100%	87%	96%			
5.0	100%	80%	92%			
2.5	100%	74%	87%			
1.25	100%	67%	82%			
0.630	99%	62%	78%			
0.315	99%	56%	73%			
0.160	97%	51%	69%			
0.080	96%	44%	61%			
M.C.(%):	39%	11%	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:	0	20	8			
% SAND:	4	37	30			
% FINES:	96	44	61			
CLASSIFICATION	SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)			



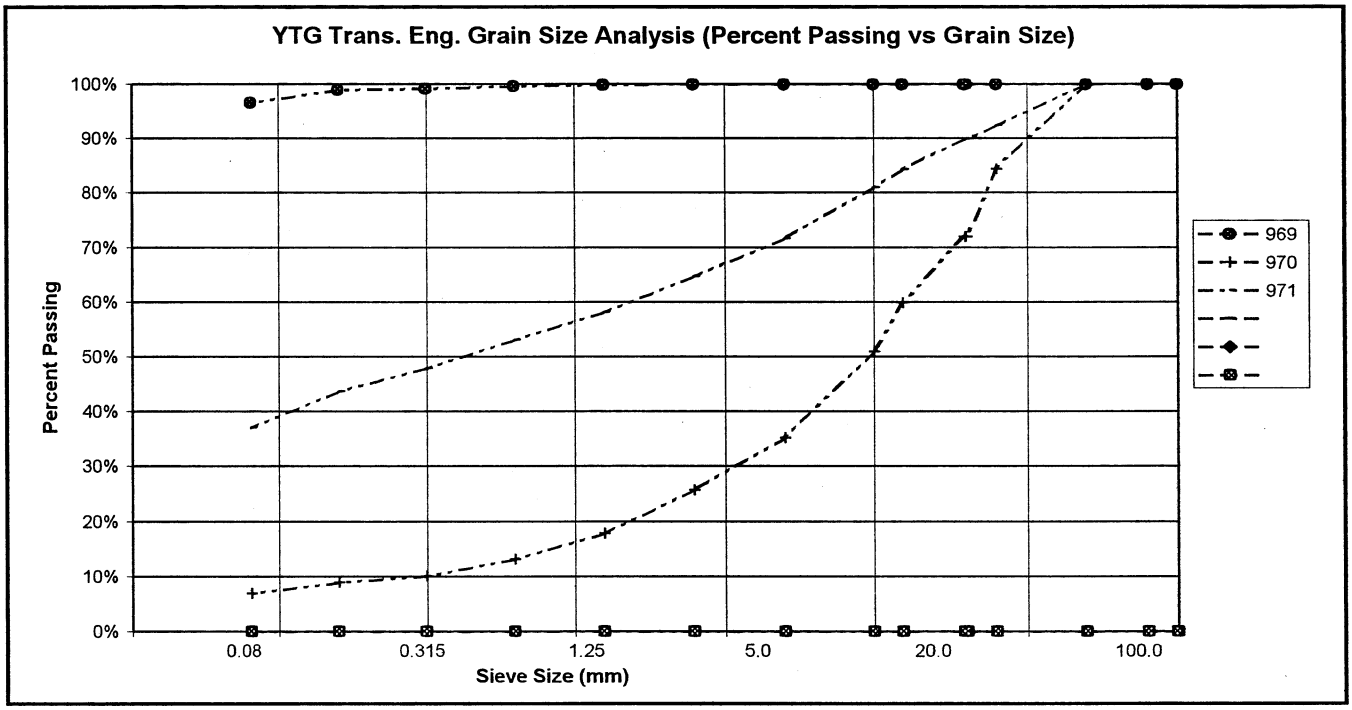
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 617-455
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/08/31

FIELD NO:	965	966	967	968		
LAB NO:	1742	1743	1744	1745		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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	80%	95%	93%	100%		
20.0	71%	84%	87%	100%		
12.5	54%	81%	77%	100%		
10.0	50%	79%	73%	100%		
5.0	38%	72%	65%	100%		
2.5	31%	67%	58%	100%		
1.25	25%	61%	51%	100%		
0.630	18%	57%	45%	99%		
0.315	11%	51%	39%	99%		
0.160	8%	47%	35%	98%		
0.080	6%	41%	29%	97%		
M.C.(%):	2%	9%	6%	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:	62	28	35	0		
% SAND:	32	31	35	3		
% FINES:	6	41	29	97		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)	SILT (ML)		



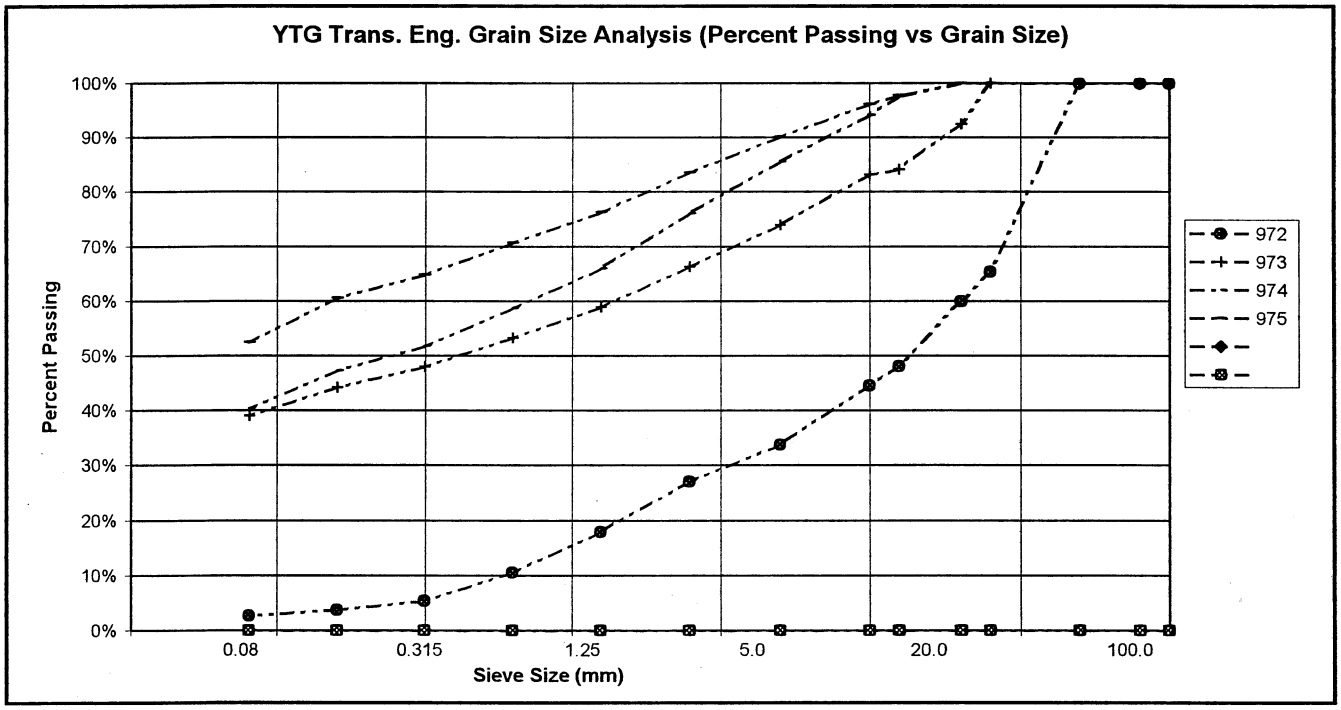
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 617-456
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/04

FIELD NO:	969	970	971			
LAB NO:	1746	1747	1748			
DEPTH:	0.6-1.0	1.0-1.5	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%	84%	92%			
20.0	100%	72%	90%			
12.5	100%	60%	84%			
10.0	100%	51%	81%			
5.0	100%	35%	72%			
2.5	100%	26%	65%			
1.25	100%	18%	58%			
0.630	100%	13%	53%			
0.315	99%	10%	48%			
0.160	99%	9%	44%			
0.080	97%	7%	37%			
M.C.(%):	32%	4%	2%			
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	65	28			
% SAND:	3	28	35			
% FINES:	97	7	37			
CLASSIFICATION	SILT (ML)	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)	SILTY SAND WITH GRAVEL (SM)			



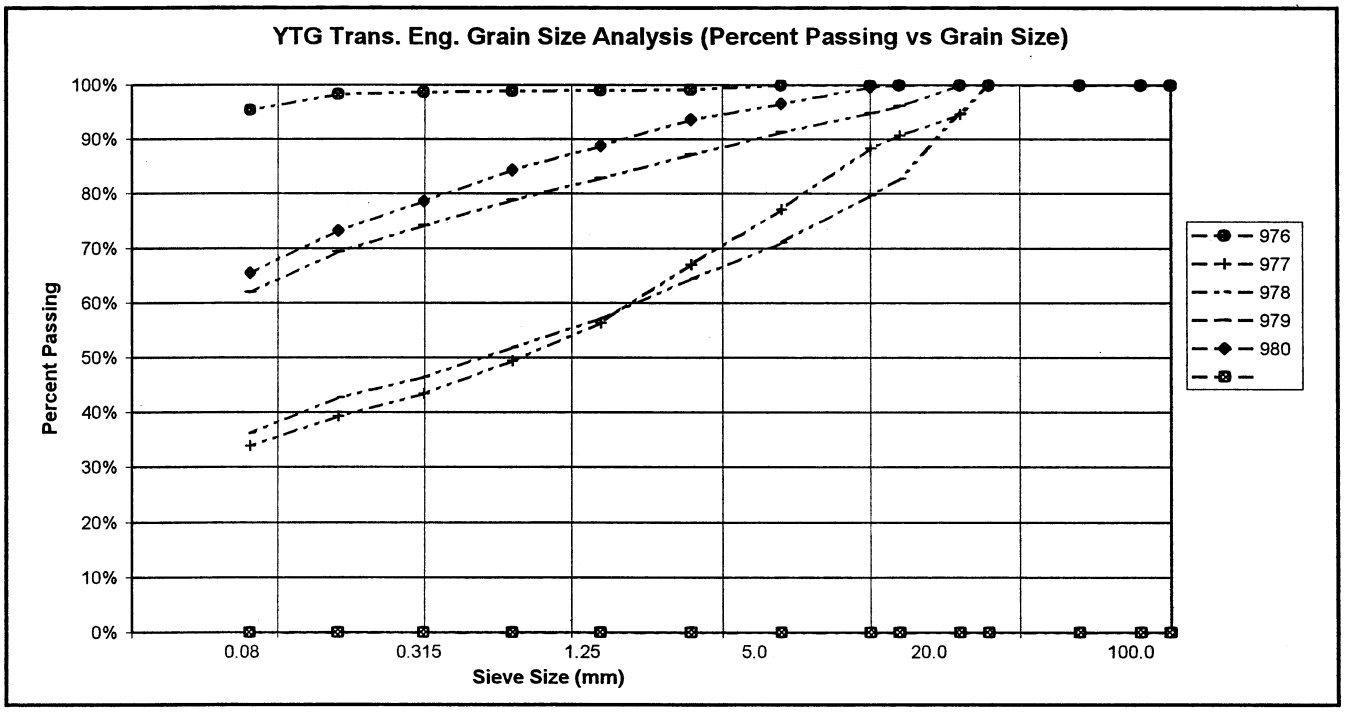
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 617-457
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/04

FIELD NO:	972	973	974	975		
LAB NO:	1749	1750	1751	1752		
DEPTH:	0.6-1.0	1.75-2.0	2.6-3.0	3.8-4.3		
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	65%	100%	100%	100%		
20.0	60%	92%	100%	100%		
12.5	48%	84%	97%	98%		
10.0	45%	83%	94%	96%		
5.0	34%	74%	86%	90%		
2.5	27%	66%	76%	84%		
1.25	18%	59%	66%	76%		
0.630	11%	53%	59%	71%		
0.315	5%	48%	52%	65%		
0.160	4%	44%	47%	61%		
0.080	3%	39%	40%	53%		
M.C.(%):	5%	10%	9%	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:	66	26	14	10		
% SAND:	31	35	45	38		
% FINES:	3	39	40	53		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND (SM)	SANDY SILT (ML)		



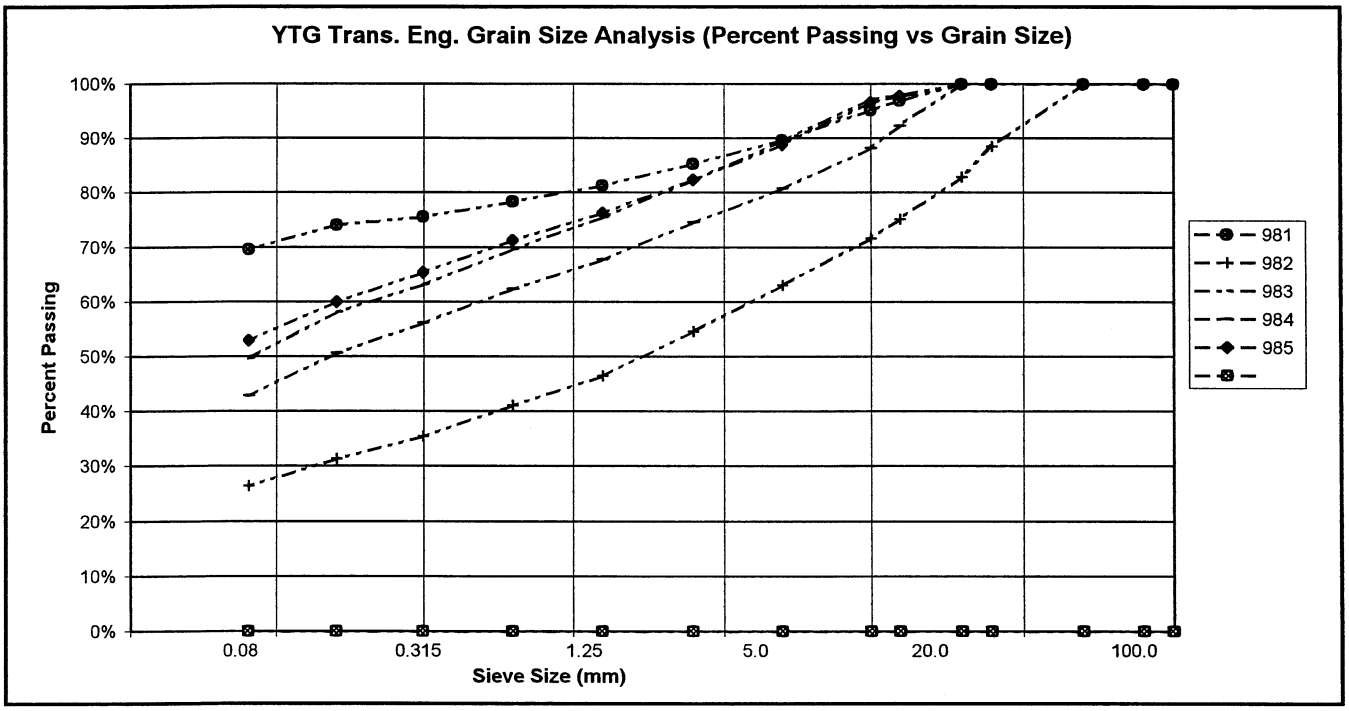
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 617-458
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/04

FIELD NO:	976	977	978	979	980	
LAB NO:	1753	1754	1755	1756	1757	
DEPTH:	0.3-0.6	1.0-1.4	1.6-2.0	2.6-3.0	3.8-4.3	
TYPE:	AUGER	AUGER	AUGER	AUGER	AUGER	AUGER
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	
100.0	100%	100%	100%	100%	100%	
80.0	100%	100%	100%	100%	100%	
50.0	100%	100%	100%	100%	100%	
25.0	100%	100%	100%	100%	100%	
20.0	100%	95%	95%	100%	100%	
12.5	100%	91%	83%	96%	100%	
10.0	100%	88%	80%	95%	100%	
5.0	100%	77%	71%	91%	97%	
2.5	99%	67%	64%	87%	94%	
1.25	99%	56%	57%	83%	89%	
0.630	99%	49%	52%	79%	84%	
0.315	99%	43%	46%	74%	79%	
0.160	98%	39%	43%	69%	73%	
0.080	95%	34%	36%	62%	66%	
M.C.(%):	26%	8%	9%	11%	11%	
LIQUID LIMIT:	0.0	0.0	0.0	0.0	0.0	
PLASTIC LIMIT:	0.0	0.0	0.0	0.0	0.0	
PLASTIC INDEX.:	0.0	0.0	0.0	0.0	0.0	
% GRAVEL:	0	23	29	9	3	
% SAND:	5	43	35	29	31	
% FINES:	95	34	36	62	66	
CLASSIFICATION	SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)	SANDY SILT (ML)	



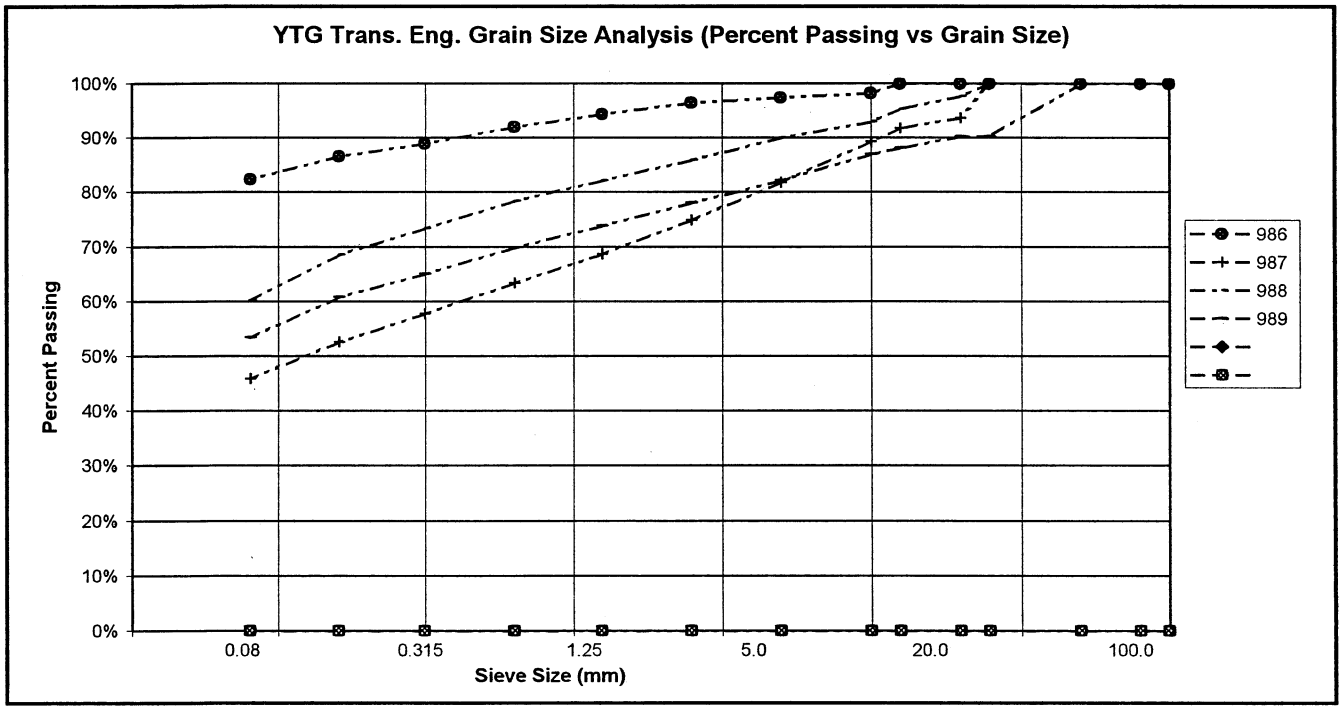
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 617-459
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/04

FIELD NO:	981	982	983	984	985	
LAB NO:	1758	1758	1760	1761	1762	
DEPTH:	0.3-0.6	1.0-1.4	1.6-2.0	2.6-3.0	3.8-4.3	
TYPE:	AUGER	AUGER	AUGER	AUGER	AUGER	AUGER
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	
100.0	100%	100%	100%	100%	100%	
80.0	100%	100%	100%	100%	100%	
50.0	100%	100%	100%	100%	100%	
25.0	100%	88%	100%	100%	100%	
20.0	100%	83%	100%	100%	100%	
12.5	97%	75%	98%	92%	98%	
10.0	95%	72%	97%	88%	97%	
5.0	90%	63%	90%	81%	89%	
2.5	85%	55%	82%	75%	82%	
1.25	81%	47%	75%	68%	76%	
0.630	78%	41%	70%	62%	71%	
0.315	76%	35%	63%	56%	65%	
0.160	74%	31%	58%	51%	60%	
0.080	70%	26%	50%	43%	53%	
M.C.(%):	20%	6%	9%	9%	8%	
LIQUID LIMIT:	0.0	0.0	0.0	0.0	0.0	
PLASTIC LIMIT:	0.0	0.0	0.0	0.0	0.0	
PLASTIC INDEX.:	0.0	0.0	0.0	0.0	0.0	
% GRAVEL:	10	37	10	19	11	
% SAND:	20	37	40	38	36	
% FINES:	70	26	50	43	53	
CLASSIFICATION	SANDY SILT (ML)	SILTY GRAVEL WITH SAND (GM)	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)	



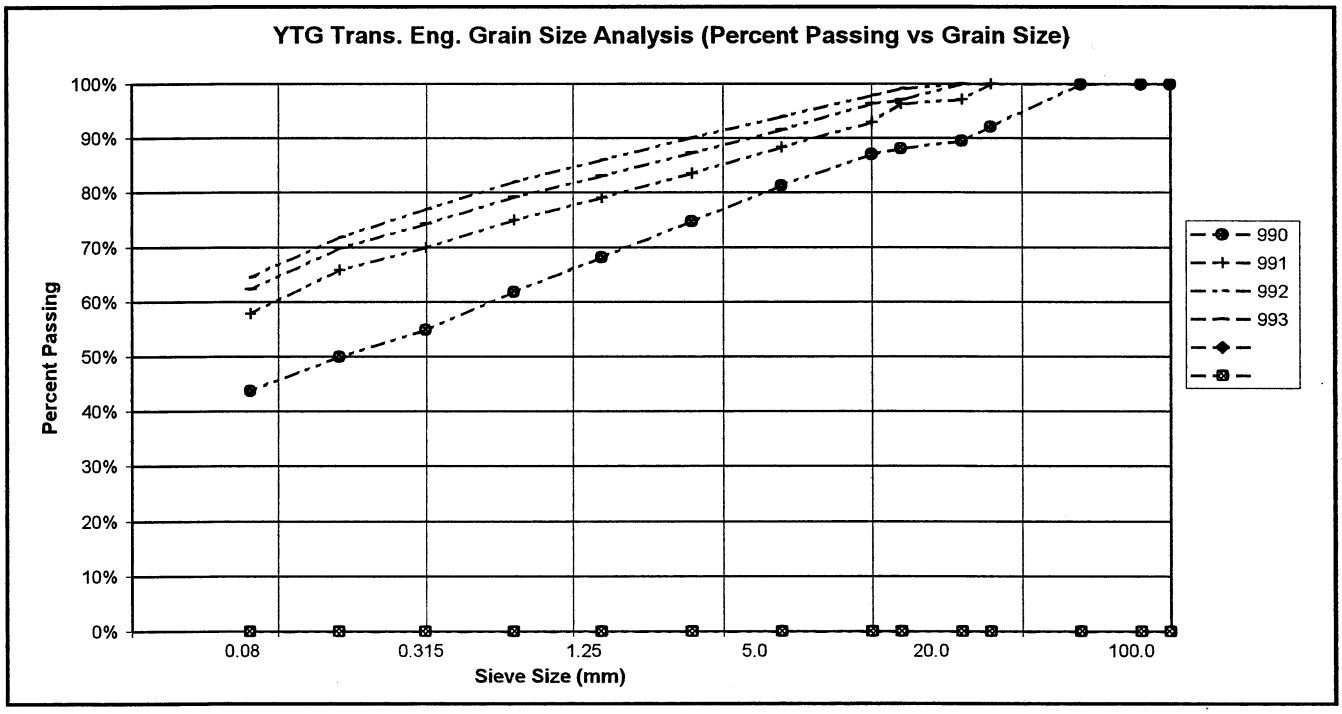
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 618-460
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/04

FIELD NO:	986	987	988	989		
LAB NO:	1763	1764	1765	1766		
DEPTH:	0.3-0.8	1.6-2.0	2.6-3.0	3.8-4.3		
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%	90%		
20.0	100%	94%	98%	90%		
12.5	100%	92%	95%	88%		
10.0	98%	89%	93%	87%		
5.0	97%	82%	90%	82%		
2.5	97%	75%	86%	78%		
1.25	94%	69%	82%	74%		
0.630	92%	63%	78%	70%		
0.315	89%	58%	73%	65%		
0.160	87%	53%	69%	61%		
0.080	82%	46%	60%	53%		
M.C.(%):	21%	10%	8%	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:	3	18	10	18		
% SAND:	15	36	30	29		
% FINES:	82	46	60	53		
CLASSIFICATION	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)	SANDY SILT WITH GRAVEL (ML)		



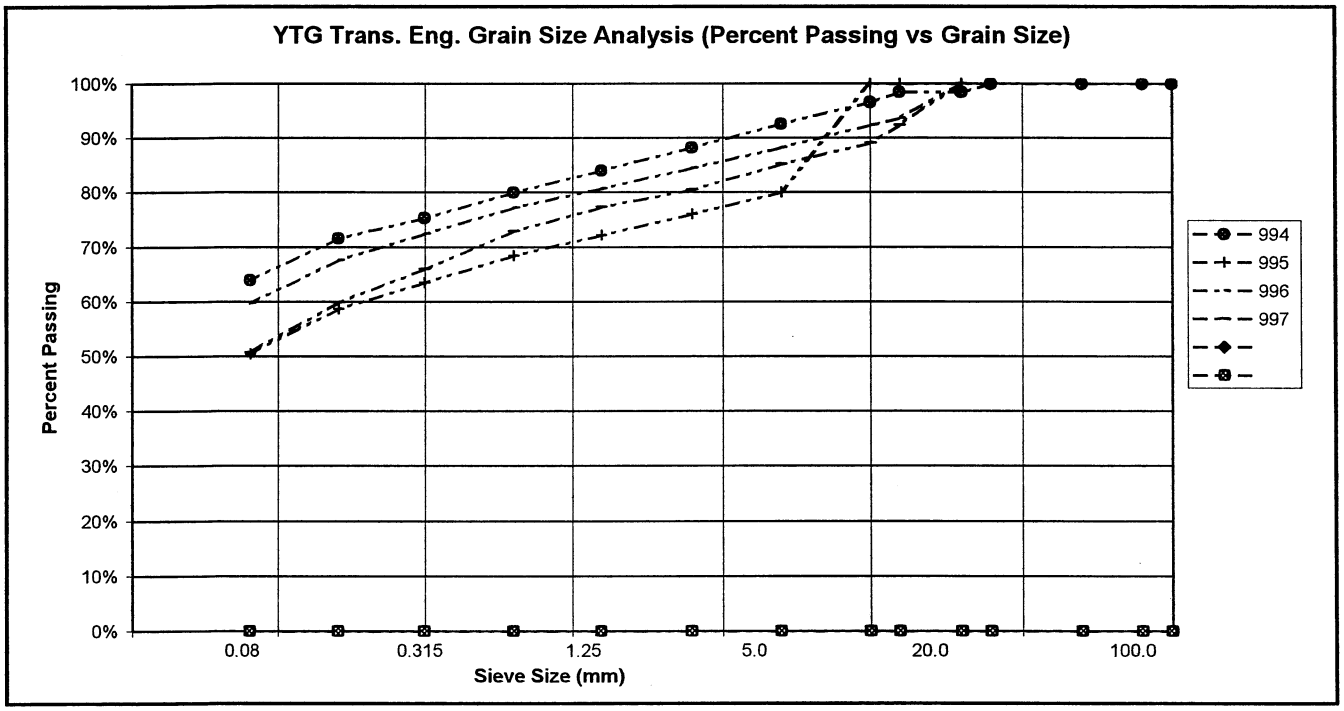
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 618-461
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/04

FIELD NO:	990	991	992	993		
LAB NO:	1767	1768	1769	1770		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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	92%	100%	100%	100%		
20.0	90%	97%	100%	100%		
12.5	88%	96%	99%	97%		
10.0	87%	93%	98%	96%		
5.0	81%	88%	94%	92%		
2.5	75%	84%	90%	87%		
1.25	68%	79%	86%	83%		
0.630	62%	75%	82%	79%		
0.315	55%	70%	77%	74%		
0.160	50%	66%	72%	70%		
0.080	44%	58%	65%	62%		
M.C.(%):	11%	12%	10%	11%		
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:	19	12	6	8		
% SAND:	38	30	29	29		
% FINES:	44	58	65	62		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)	SANDY SILT (ML)	SANDY SILT (ML)		



PROJECT NUMBER:	092-202101-0362-1	HOLE No.: 618-462
CLIENT:	ENGINEERING CAPITAL	
PROJECT NAME:	SHAKWAK SEG 10	
PROJECT LOCATION:	Km 1692.6-1729.6 A/H	
DRILL UNIT:	MOBILE B40 L	
HOLE LOCATION:	See Testhole Log Sheet	
LOGGED BY:	G.C.	DATE COMP: 2001/09/04

FIELD NO:	994	995	996	997		
LAB NO:	1771	1772	1773	1774		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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%	100%		
20.0	99%	100%	100%	100%		
12.5	99%	100%	94%	92%		
10.0	97%	100%	92%	89%		
5.0	93%	80%	88%	85%		
2.5	88%	76%	85%	80%		
1.25	84%	72%	81%	77%		
0.630	80%	68%	77%	73%		
0.315	75%	63%	72%	66%		
0.160	72%	59%	68%	60%		
0.080	64%	50%	60%	51%		
M.C.(%):	14%	10%	11%	10%		
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:	7	20	12	15		
% SAND:	29	30	29	35		
% FINES:	64	50	60	51		
CLASSIFICATION	SANDY SILT (ML)	SANDY SILT WITH GRAVEL (ML)	SANDY SILT (ML)	SANDY SILT (ML)		

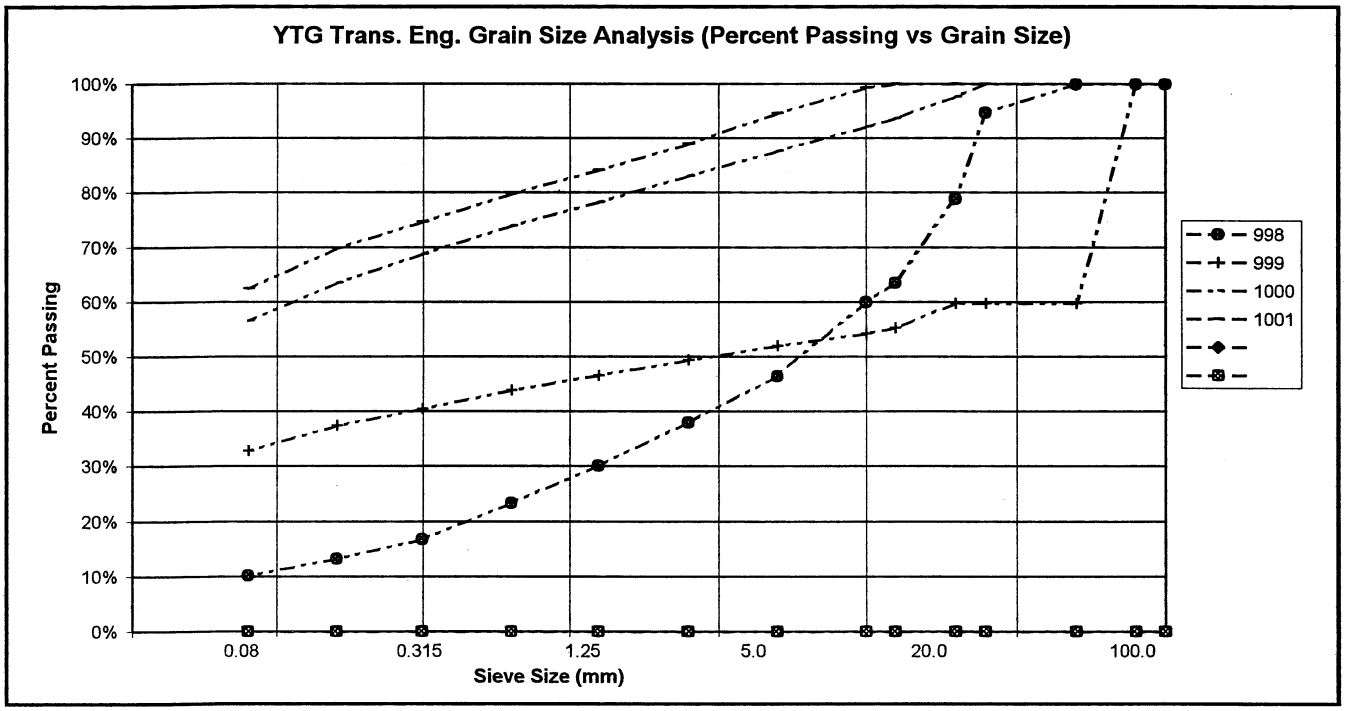


PROJECT NUMBER: 092-202101-0362-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 10
PROJECT LOCATION: Km 1692.6-1729.6 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: See Testhole Log Sheet
LOGGED BY: G.C.

HOLE No.: 618-463

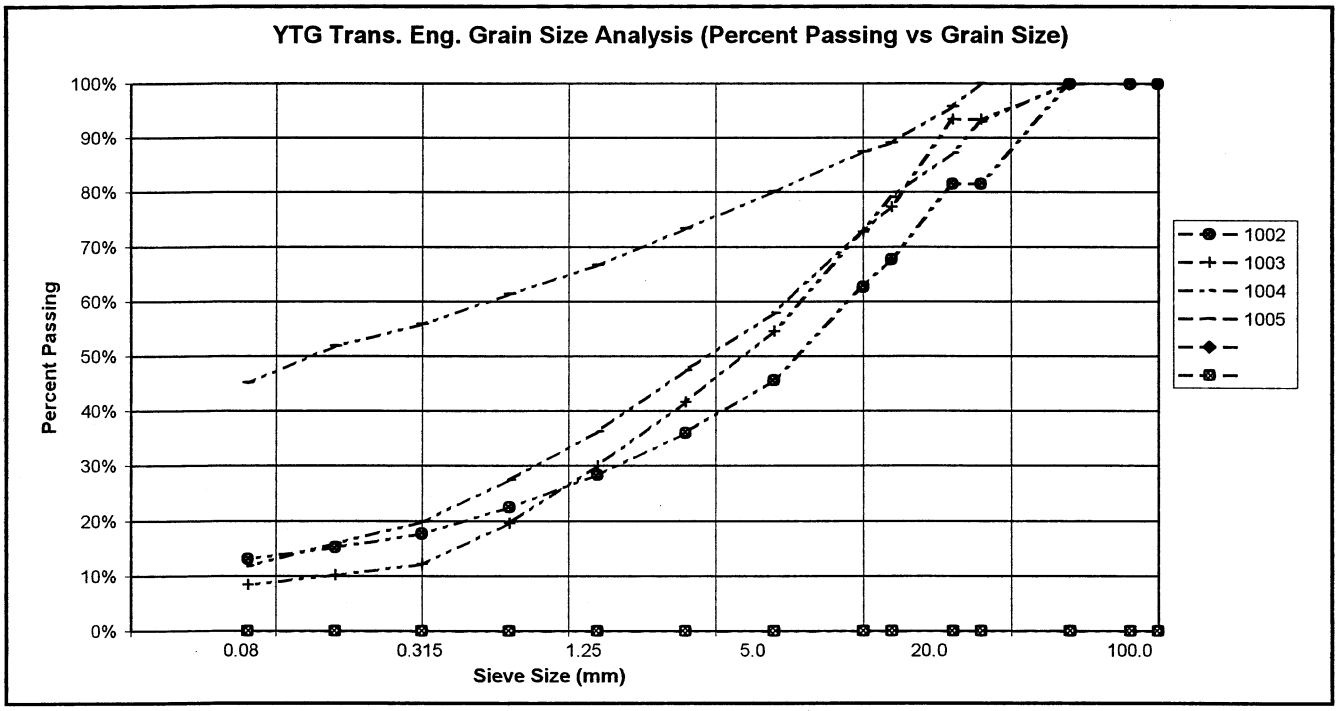
DATE COMP: 2001/09/04

FIELD NO:	998	999	1000	1001		
LAB NO:	1775	1776	1777	1778		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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%	60%	100%	100%		
25.0	95%	60%	100%	100%		
20.0	79%	60%	98%	100%		
12.5	64%	55%	94%	100%		
10.0	60%	54%	92%	99%		
5.0	46%	52%	88%	95%		
2.5	38%	49%	83%	89%		
1.25	30%	47%	78%	84%		
0.630	23%	44%	74%	80%		
0.315	17%	41%	69%	75%		
0.160	13%	37%	63%	70%		
0.080	10%	33%	57%	62%		
M.C.(%):	3%	8%	8%	10%		
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:	54	48	12	5		
% SAND:	36	19	31	32		
% FINES:	10	33	57	62		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY GRAVEL WITH SAND (GM)	SANDY SILT (ML)	SANDY SILT (ML)		



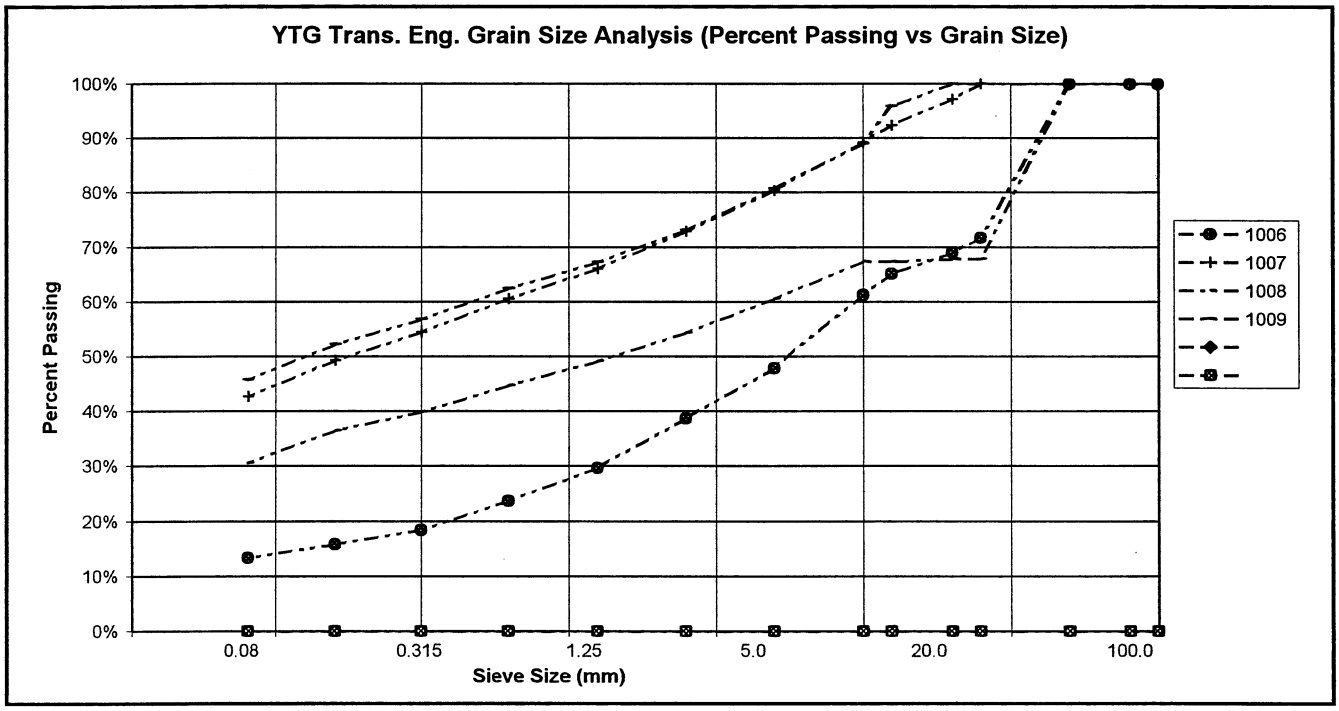
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 618-464
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/04

FIELD NO:	1002	1003	1004	1005		
LAB NO:	1779	1780	1781	1782		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.6		
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	82%	93%	93%	100%		
20.0	82%	93%	87%	96%		
12.5	68%	77%	79%	89%		
10.0	63%	73%	73%	87%		
5.0	46%	55%	58%	80%		
2.5	36%	42%	47%	73%		
1.25	28%	30%	36%	67%		
0.630	23%	20%	28%	61%		
0.315	18%	12%	20%	56%		
0.160	15%	10%	16%	52%		
0.080	13%	8%	12%	45%		
M.C.(%):	9%	4%	3%	8%		
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:	54	45	42	20		
% SAND:	33	46	46	35		
% FINES:	13	8	12	45		
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	SILTY SAND WITH GRAVEL (SM)		



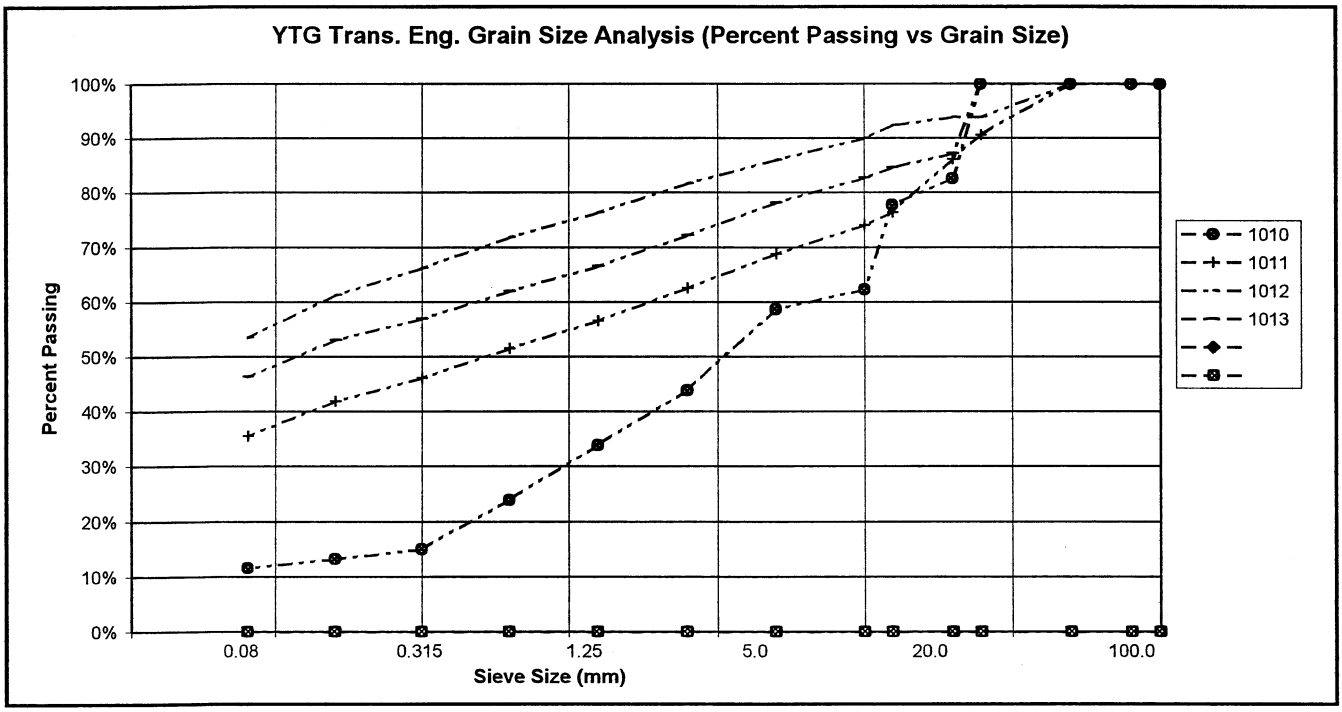
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 618-465
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/04

FIELD NO:	1006	1007	1008	1009		
LAB NO:	1783	1784	1785	1786		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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	72%	100%	68%	100%		
20.0	69%	97%	68%	100%		
12.5	65%	92%	67%	96%		
10.0	61%	89%	67%	89%		
5.0	48%	80%	61%	81%		
2.5	39%	73%	54%	73%		
1.25	30%	66%	49%	67%		
0.630	24%	61%	45%	63%		
0.315	18%	54%	40%	57%		
0.160	16%	49%	37%	52%		
0.080	13%	43%	31%	46%		
M.C.(%):	3%	8%	8%	8%		
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:	52	20	39	19		
% SAND:	34	38	30	35		
% FINES:	13	43	31	46		
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)		



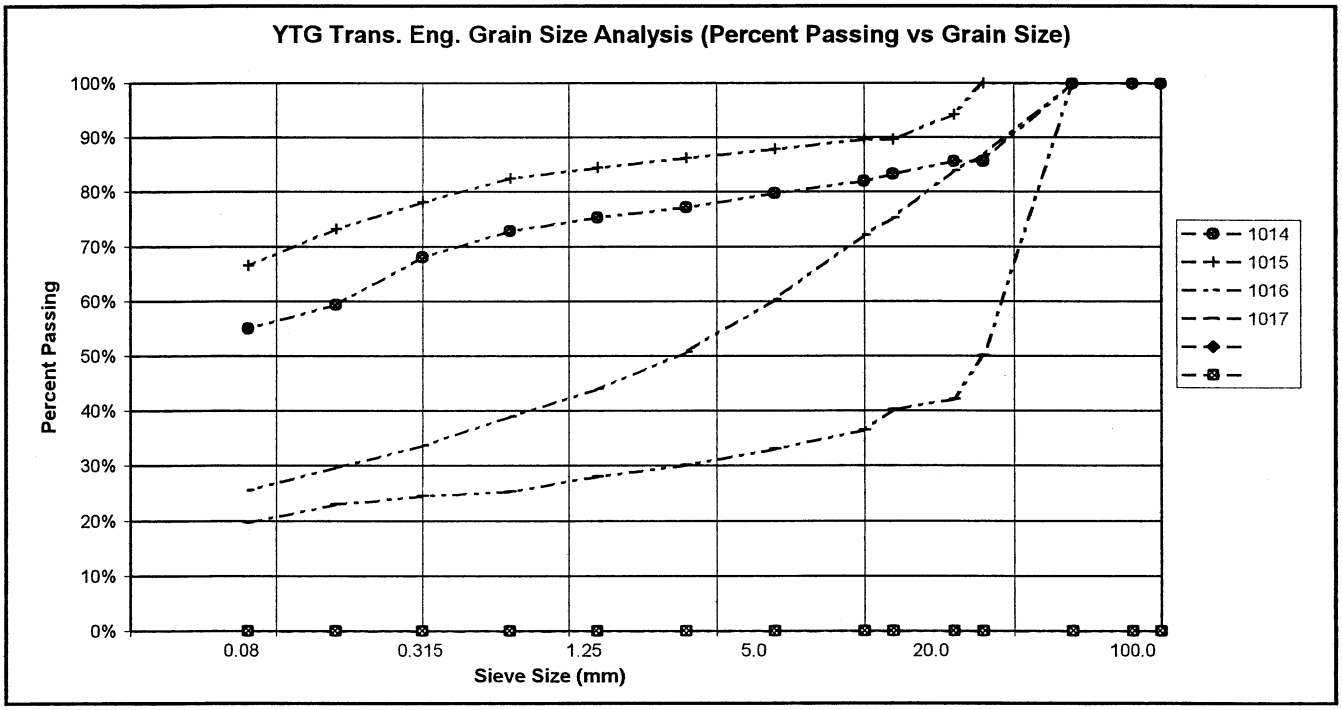
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 618-466
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/05

FIELD NO:	1010	1011	1012	1013		
LAB NO:	1787	1788	1789	1790		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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%	91%	94%	100%		
20.0	83%	86%	94%	87%		
12.5	78%	76%	92%	85%		
10.0	62%	74%	90%	83%		
5.0	59%	69%	86%	78%		
2.5	44%	63%	82%	72%		
1.25	34%	57%	76%	67%		
0.630	24%	52%	72%	62%		
0.315	15%	46%	66%	57%		
0.160	13%	42%	61%	53%		
0.080	12%	36%	54%	46%		
M.C.(%):	3%	7%	8%	8%		
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:	41	31	14	22		
% SAND:	47	33	33	32		
% FINES:	12	36	54	46		
CLASSIFICATION	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)		



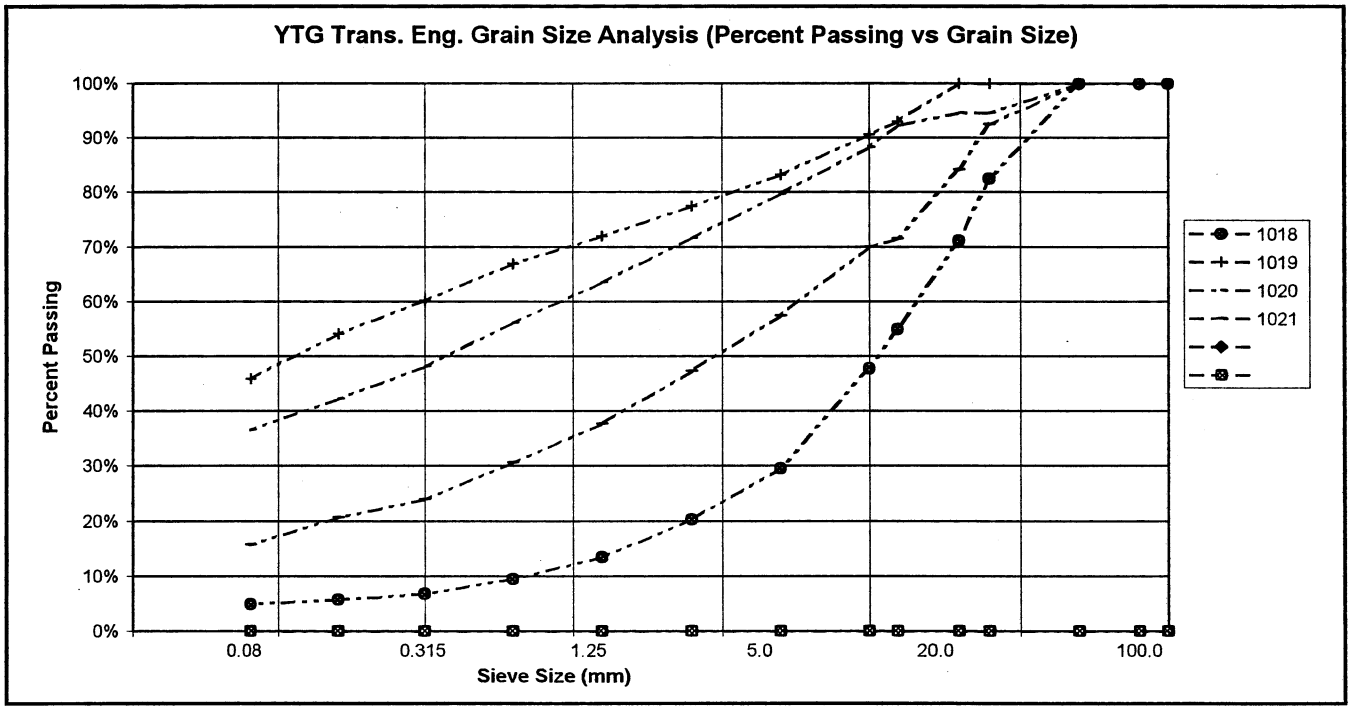
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 618-467
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/05

FIELD NO:	1014	1015	1016	1017		
LAB NO:	1791	1792	1793	1794		
DEPTH:	0.6-1.0	1.6-2.0	2.8-3.0	3.6-4.3		
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	86%	100%	87%	50%		
20.0	86%	94%	84%	42%		
12.5	83%	90%	75%	40%		
10.0	82%	90%	72%	37%		
5.0	80%	88%	60%	33%		
2.5	77%	86%	51%	30%		
1.25	75%	85%	44%	28%		
0.630	73%	82%	39%	25%		
0.315	68%	78%	34%	25%		
0.160	59%	73%	30%	23%		
0.080	55%	67%	26%	20%		
M.C.(%):	24%	24%	9%	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:	20	12	40	67		
% SAND:	25	21	35	13		
% FINES:	55	67	26	20		
CLASSIFICATION	SANDY SILT WITH GRAVEL (ML)	SANDY SILT (ML)	SILTY GRAVEL WITH SAND (GM)	SILTY GRAVEL (GM)		



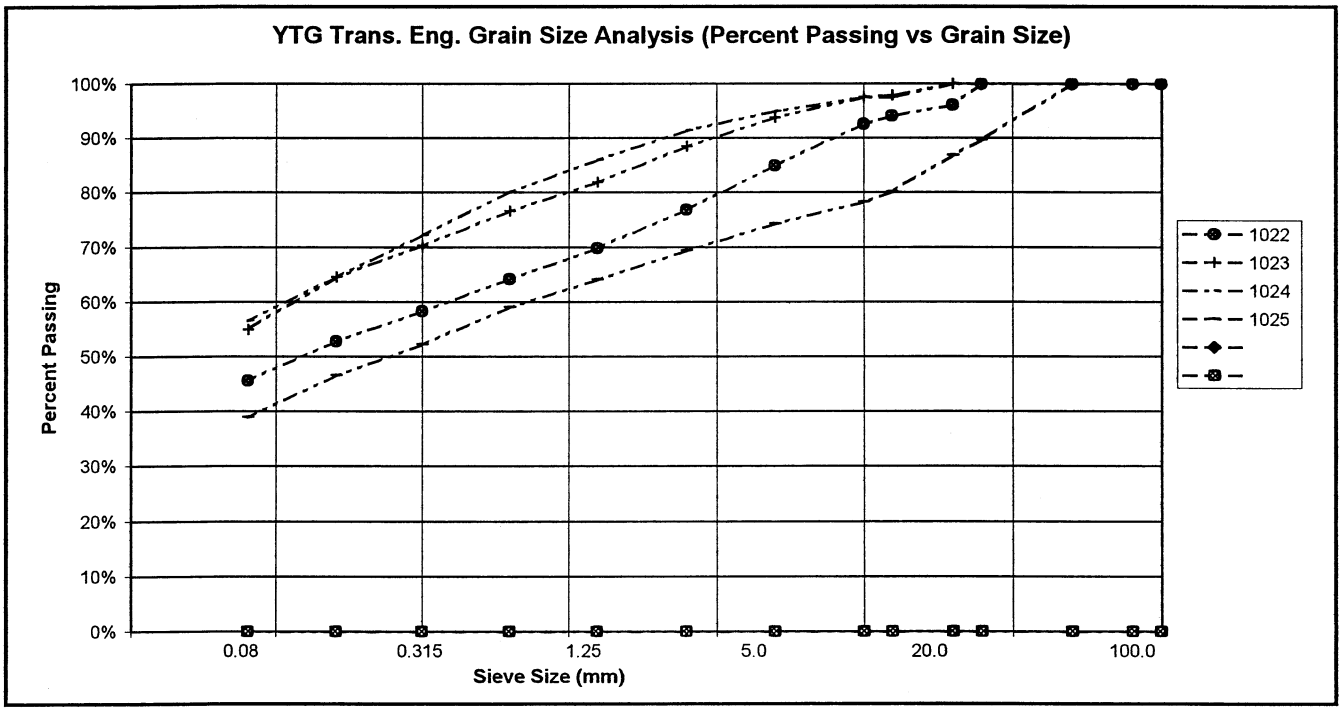
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 618-468
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/05

FIELD NO:	1018	1019	1020	1021		
LAB NO:	1795	1796	1797	1798		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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	83%	100%	95%	92%		
20.0	71%	100%	95%	84%		
12.5	55%	93%	92%	71%		
10.0	48%	91%	88%	70%		
5.0	30%	83%	80%	57%		
2.5	20%	77%	72%	47%		
1.25	13%	72%	63%	38%		
0.630	10%	67%	56%	31%		
0.315	7%	60%	48%	24%		
0.160	6%	54%	42%	21%		
0.080	5%	46%	37%	16%		
M.C.(%):	9%	8%	6%	3%		
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:	70	17	20	43		
% SAND:	25	37	43	42		
% FINES:	5	46	37	16		
CLASSIFICATION	WELL-GRADED GRAVEL WITH SAND (GW)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)		



PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 618-469
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/05

FIELD NO:	1022	1023	1024	1025		
LAB NO:	1799	1800	1801	1802		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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%	90%		
20.0	96%	100%	100%	87%		
12.5	94%	98%	98%	80%		
10.0	93%	98%	98%	78%		
5.0	85%	94%	95%	74%		
2.5	77%	88%	91%	69%		
1.25	70%	82%	86%	64%		
0.630	64%	77%	80%	59%		
0.315	58%	70%	72%	52%		
0.160	53%	65%	65%	47%		
0.080	46%	55%	57%	39%		
M.C.(%):	10%	9%	9%	7%		
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:	15	6	5	26		
% SAND:	39	39	38	35		
% FINES:	46	55	57	39		
CLASSIFICATION	SILTY SAND (SM)	SANDY SILT (ML)	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)		

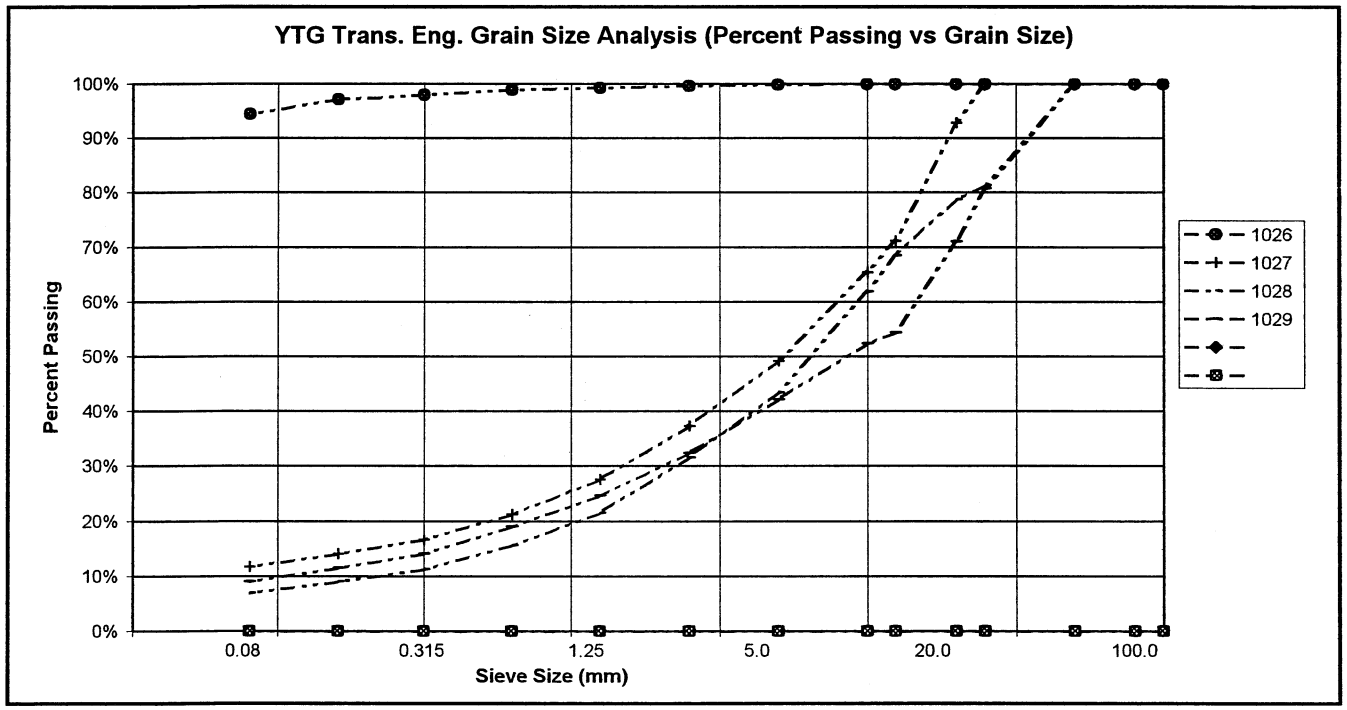


PROJECT NUMBER: 092-202101-0362-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 10
PROJECT LOCATION: Km 1692.6-1729.6 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: See Testhole Log Sheet
LOGGED BY: G.C.

HOLE No.: 618-470

DATE COMP: 2001/09/05

FIELD NO:	1026	1027	1028	1029		
LAB NO:	1803	18.4	1805	1806		
DEPTH:	0.75-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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%	81%	81%		
20.0	100%	93%	79%	71%		
12.5	100%	71%	68%	54%		
10.0	100%	65%	62%	52%		
5.0	100%	49%	43%	42%		
2.5	100%	37%	32%	32%		
1.25	99%	28%	22%	25%		
0.630	99%	21%	16%	19%		
0.315	98%	17%	11%	14%		
0.160	97%	14%	9%	11%		
0.080	94%	12%	7%	9%		
M.C.(%):	30%	4%	2%	3%		
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	51	57	58		
% SAND:	5	37	37	33		
% FINES:	94	12	7	9		
CLASSIFICATION	SILT (ML)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		

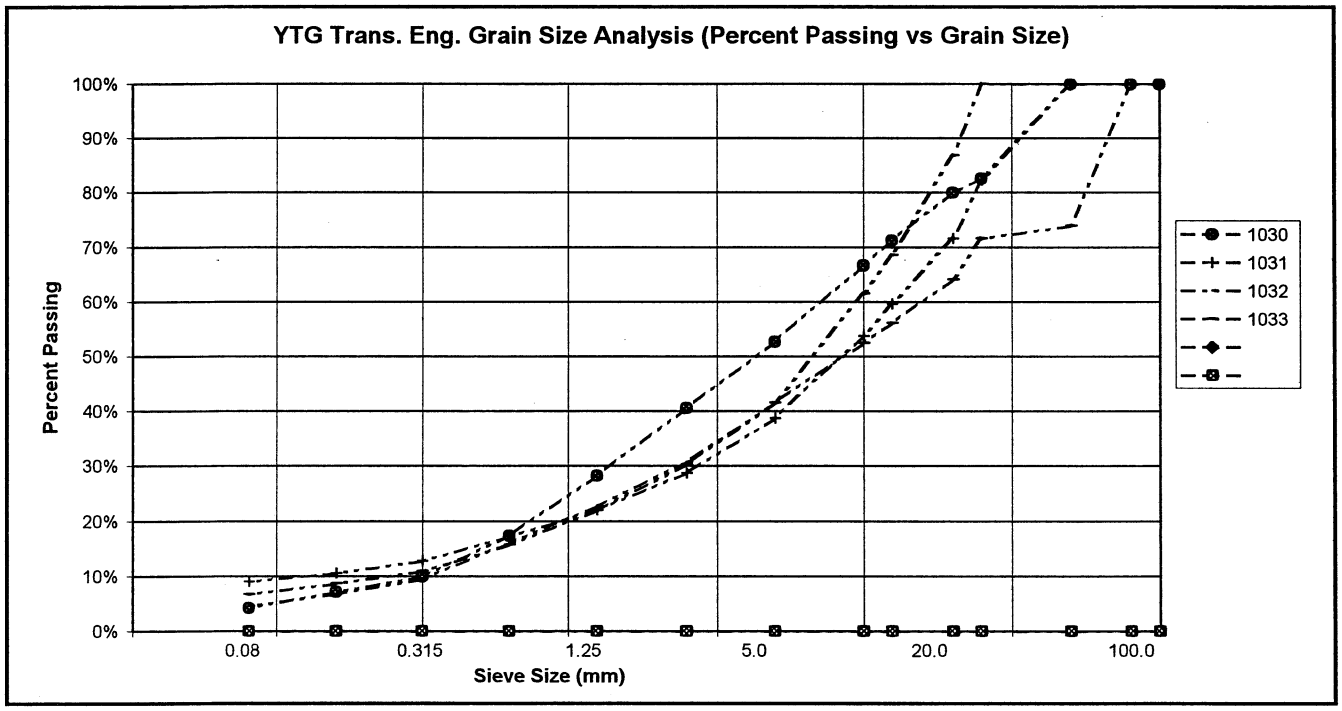


PROJECT NUMBER: 092-202101-0362-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 10
PROJECT LOCATION: Km 1692.6-1729.6 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: See Testhole Log Sheet
LOGGED BY: G.C.

HOLE No.: 618-471

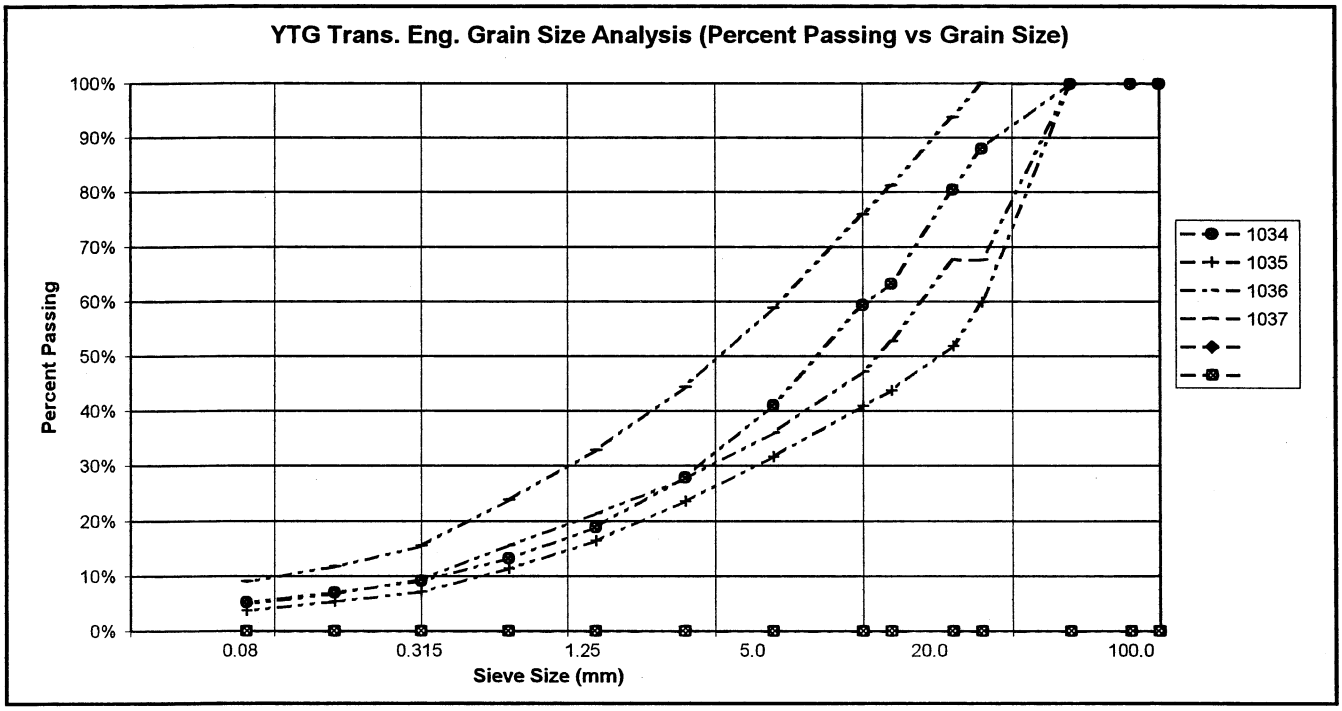
DATE COMP: 2001/09/05

FIELD NO:	1030	1031	1032	1033		
LAB NO:	1807	1808	1809	1810		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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%	74%		
25.0	83%	82%	100%	72%		
20.0	80%	72%	87%	64%		
12.5	71%	60%	69%	56%		
10.0	67%	54%	62%	52%		
5.0	53%	39%	42%	42%		
2.5	41%	29%	31%	30%		
1.25	28%	22%	23%	22%		
0.630	17%	17%	16%	16%		
0.315	10%	13%	10%	11%		
0.160	7%	11%	7%	9%		
0.080	4%	9%	5%	7%		
M.C.(%):	3%	2%	1%	2%		
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:	47	61	58	58		
% SAND:	48	30	37	35		
% FINES:	4	9	5	7		
CLASSIFICATION	WELL-GRADED SAND WITH GRAVEL (SW)	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		



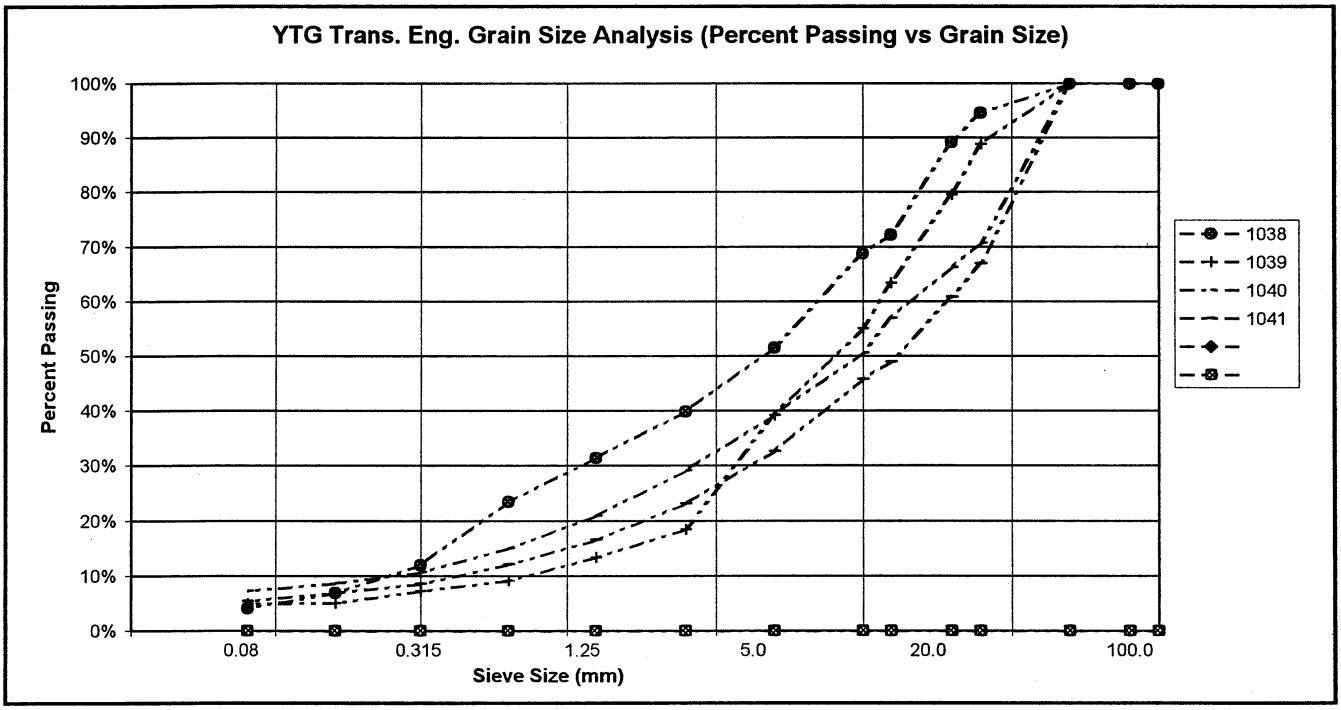
PROJECT NUMBER:	092-202101-0362-1				HOLE No.: 618-472	
CLIENT:	ENGINEERING CAPITAL					
PROJECT NAME:	SHAKWAK SEG 10					
PROJECT LOCATION:	Km 1692.6-1729.6 A/H					
DRILL UNIT:	MOBILE B40 L					
HOLE LOCATION:	See Testhole Log Sheet					
LOGGED BY:	G.C.				DATE COMP: 2001/09/05	

FIELD NO:	1034	1035	1036	1037		
LAB NO:	1811	1812	1813	1814		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.0		
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	88%	60%	68%	100%		
20.0	80%	52%	68%	94%		
12.5	63%	44%	53%	81%		
10.0	59%	41%	47%	76%		
5.0	41%	32%	36%	59%		
2.5	28%	24%	28%	44%		
1.25	19%	16%	21%	33%		
0.630	13%	11%	16%	24%		
0.315	9%	7%	10%	16%		
0.160	7%	5%	7%	12%		
0.080	5%	4%	5%	9%		
M.C.(%):	3%	2%	2%	3%		
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:	59	68	64	41		
% SAND:	36	28	31	50		
% FINES:	5	4	5	9		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SAND (GP)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)		



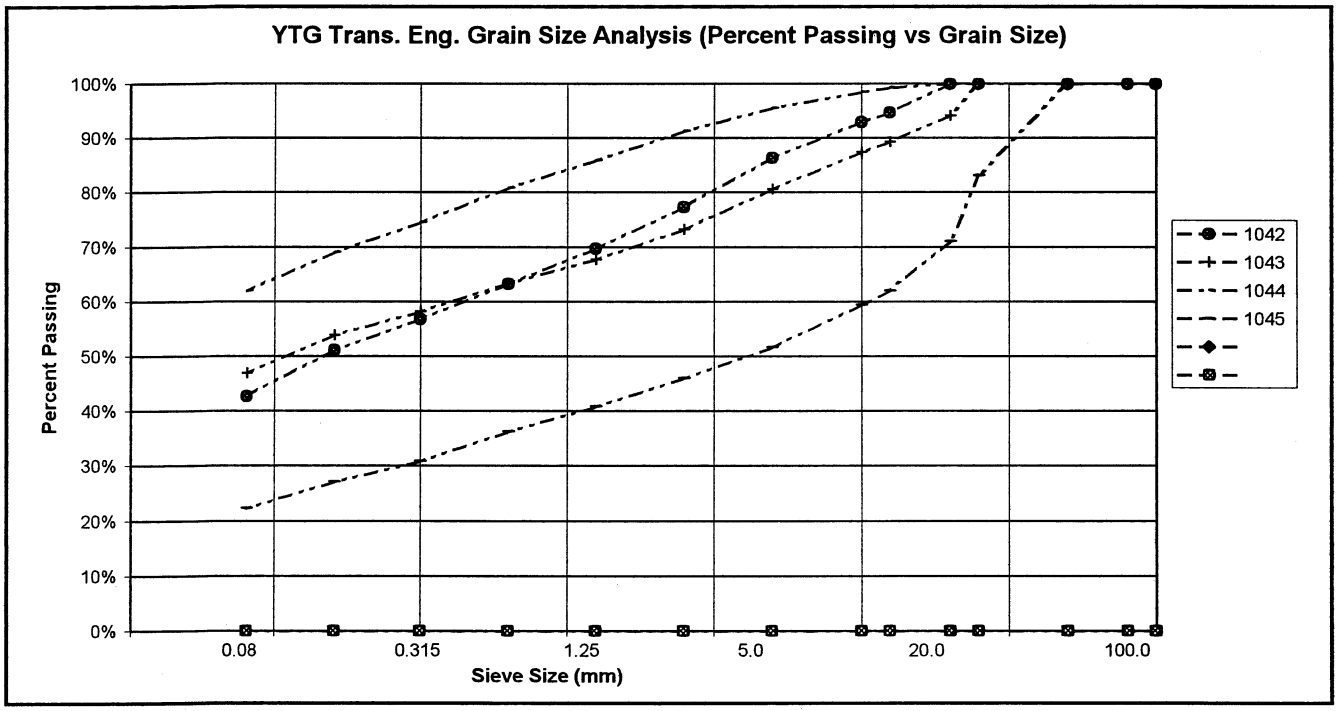
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 618-473
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/05

FIELD NO:	1038	1039	1040	1041		
LAB NO:	1815	1816	1817	1818		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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	95%	89%	71%	67%		
20.0	89%	80%	66%	61%		
12.5	72%	63%	57%	49%		
10.0	69%	55%	51%	46%		
5.0	51%	39%	39%	33%		
2.5	40%	18%	29%	23%		
1.25	31%	13%	21%	17%		
0.630	24%	9%	15%	12%		
0.315	12%	7%	11%	9%		
0.160	7%	5%	9%	7%		
0.080	4%	5%	7%	5%		
M.C.(%):	2%	2%	3%	2%		
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:	49	61	61	67		
% SAND:	47	34	32	27		
% FINES:	4	5	7	5		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		



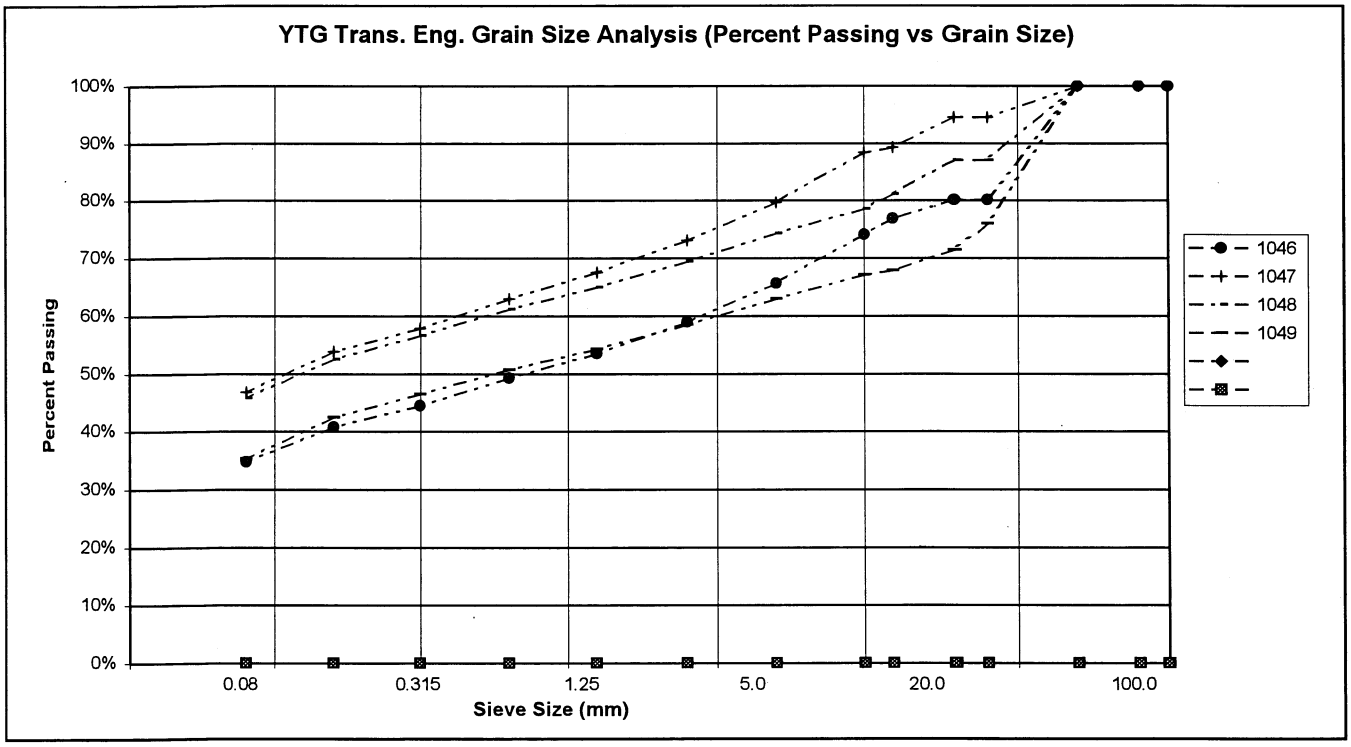
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 618-474
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/05

FIELD NO:	1042	1043	1044	1045		
LAB NO:	1819	1820	1821	1822		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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%	83%		
20.0	100%	94%	100%	71%		
12.5	95%	89%	99%	62%		
10.0	93%	87%	98%	59%		
5.0	86%	81%	96%	52%		
2.5	77%	73%	91%	46%		
1.25	70%	68%	86%	41%		
0.630	63%	63%	81%	36%		
0.315	57%	58%	75%	31%		
0.160	51%	54%	69%	27%		
0.080	43%	47%	62%	22%		
M.C.(%):	14%	9%	8%	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:	14	19	4	48		
% SAND:	44	34	33	29		
% FINES:	43	47	62	22		
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)	SILTY GRAVEL WITH SAND (GM)		



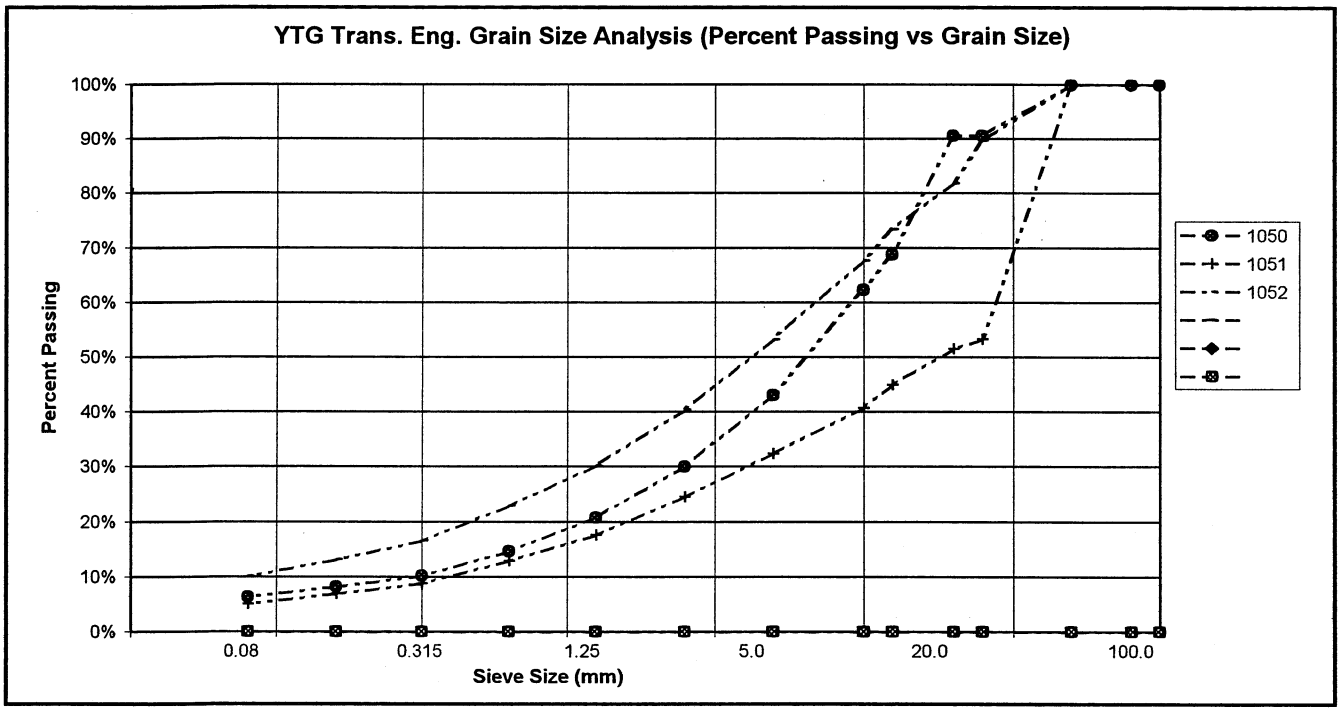
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 618-475
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/05

FIELD NO:	1046	1047	1048	1049		
LAB NO:	1823	1824	1825	1826		
DEPTH:	0.6-1.0	1.6-2.0	2.8-3.0	3.8-4.3		
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	80%	95%	87%	76%		
20.0	80%	95%	87%	71%		
12.5	77%	89%	81%	68%		
10.0	74%	88%	79%	67%		
5.0	66%	80%	74%	63%		
2.5	59%	73%	69%	59%		
1.25	54%	68%	65%	54%		
0.630	49%	63%	61%	51%		
0.315	44%	58%	57%	46%		
0.160	41%	54%	53%	42%		
0.080	35%	47%	46%	35%		
M.C.(%):	9%	8%	7%	6%		
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:	34	20	26	37		
% SAND:	31	33	29	28		
% FINES:	35	47	46	35		
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)		



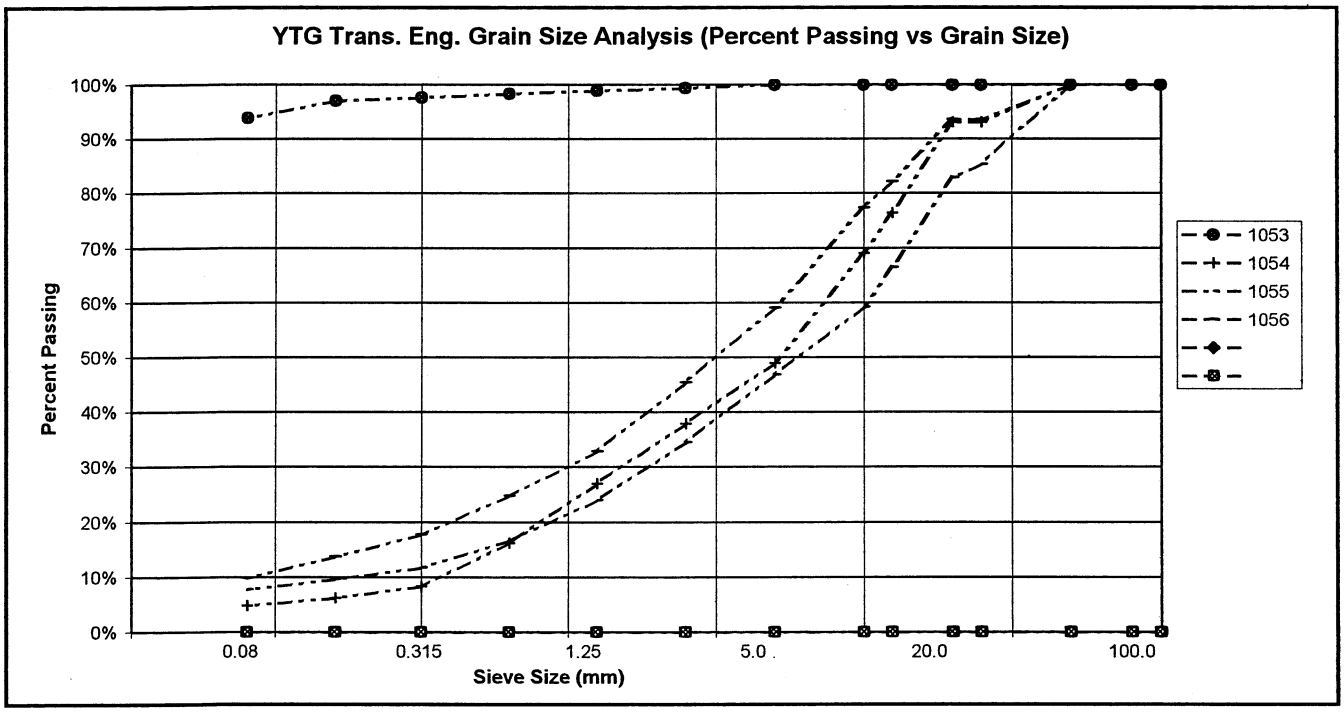
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 618-476
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/05

FIELD NO:	1050	1051	1052			
LAB NO:	1827	1828	1829			
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0			
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	91%	53%	90%			
20.0	91%	51%	82%			
12.5	69%	45%	73%			
10.0	62%	41%	68%			
5.0	43%	32%	53%			
2.5	30%	25%	40%			
1.25	21%	18%	30%			
0.630	15%	13%	23%			
0.315	10%	9%	17%			
0.160	8%	7%	13%			
0.080	6%	5%	10%			
M.C.(%):	7%	6%	2%			
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:	57	68	47			
% SAND:	37	27	43			
% FINES:	6	5	10			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)			



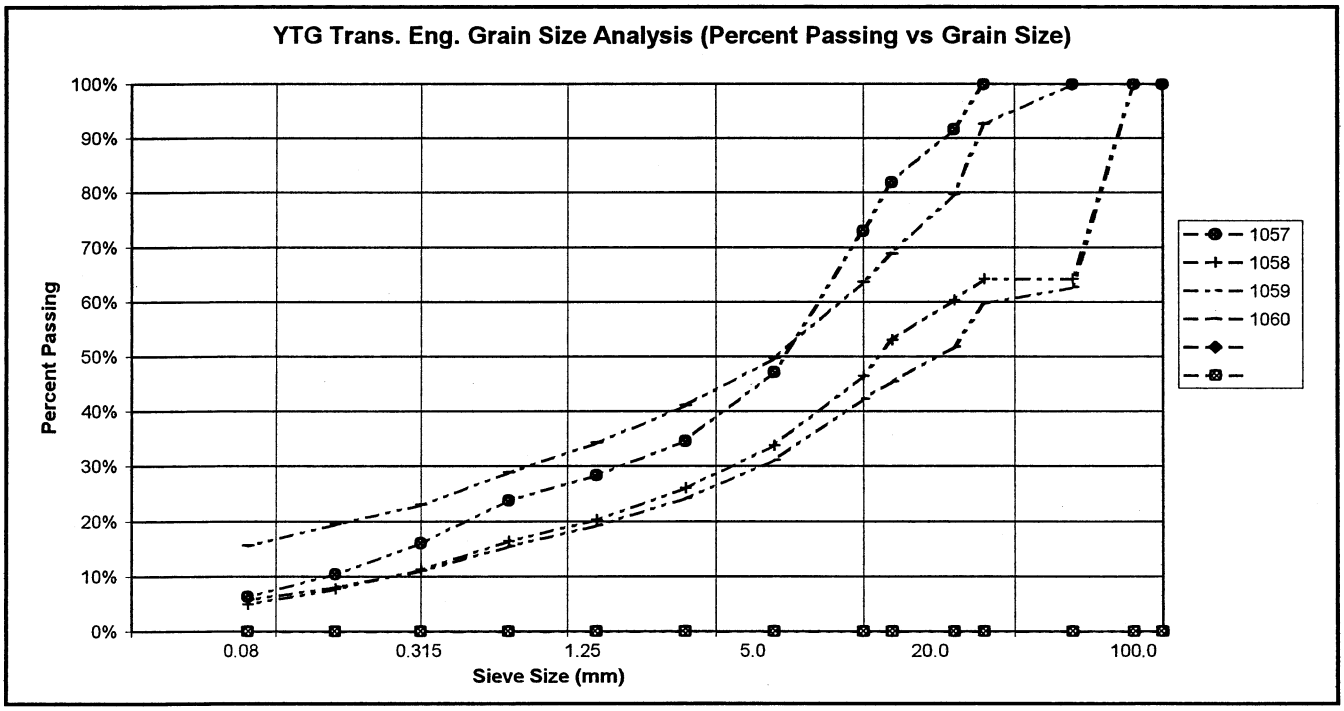
PROJECT NUMBER:	092-202101-0362-1	HOLE No.: 618-477
CLIENT:	ENGINEERING CAPITAL	
PROJECT NAME:	SHAKWAK SEG 10	
PROJECT LOCATION:	Km 1692.6-1729.6 A/H	
DRILL UNIT:	MOBILE B40 L	
HOLE LOCATION:	See Testhole Log Sheet	
LOGGED BY:	G.C.	DATE COMP: 2001/09/05

	FIELD NO:	1053	1054	1055	1056		
	LAB NO:	1830	1831	1832	1833		
	DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.6-4.3		
	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%	93%	85%	94%		
20.0		100%	93%	83%	94%		
12.5		100%	76%	66%	82%		
10.0		100%	69%	59%	77%		
5.0		100%	49%	47%	59%		
2.5		99%	38%	34%	45%		
1.25		99%	27%	24%	33%		
0.630		98%	16%	17%	25%		
0.315		98%	8%	12%	18%		
0.160		97%	6%	10%	14%		
0.080		94%	5%	8%	10%		
M.C.(%):		27%	1%	2%	2%		
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	51	53	41		
% SAND:		6	44	39	49		
% FINES:		94	5	8	10		
CLASSIFICATION		SILT (ML)	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)		



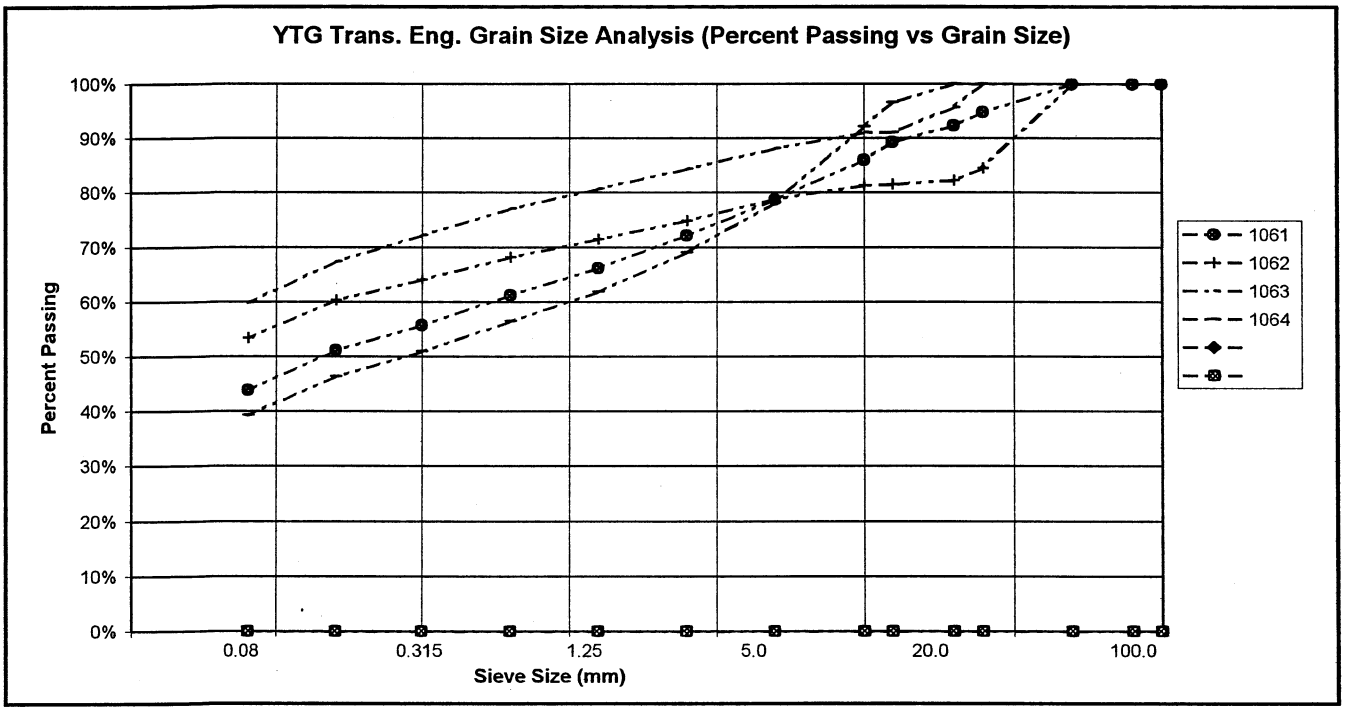
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 618-478
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/05

FIELD NO:	1057	1058	1059	1060		
LAB NO:	1834	1835	1836	1837		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.0		
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%	64%	63%	100%		
25.0	100%	64%	60%	93%		
20.0	92%	60%	52%	80%		
12.5	82%	53%	45%	69%		
10.0	73%	46%	42%	64%		
5.0	47%	34%	31%	50%		
2.5	35%	26%	24%	41%		
1.25	28%	20%	19%	34%		
0.630	24%	16%	15%	29%		
0.315	16%	11%	11%	23%		
0.160	10%	8%	8%	19%		
0.080	6%	5%	6%	16%		
M.C.(%):	2%	2%	2%	4%		
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:	53	66	69	50		
% SAND:	41	29	25	34		
% FINES:	6	5	6	16		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY GRAVEL WITH SAND (GM)		



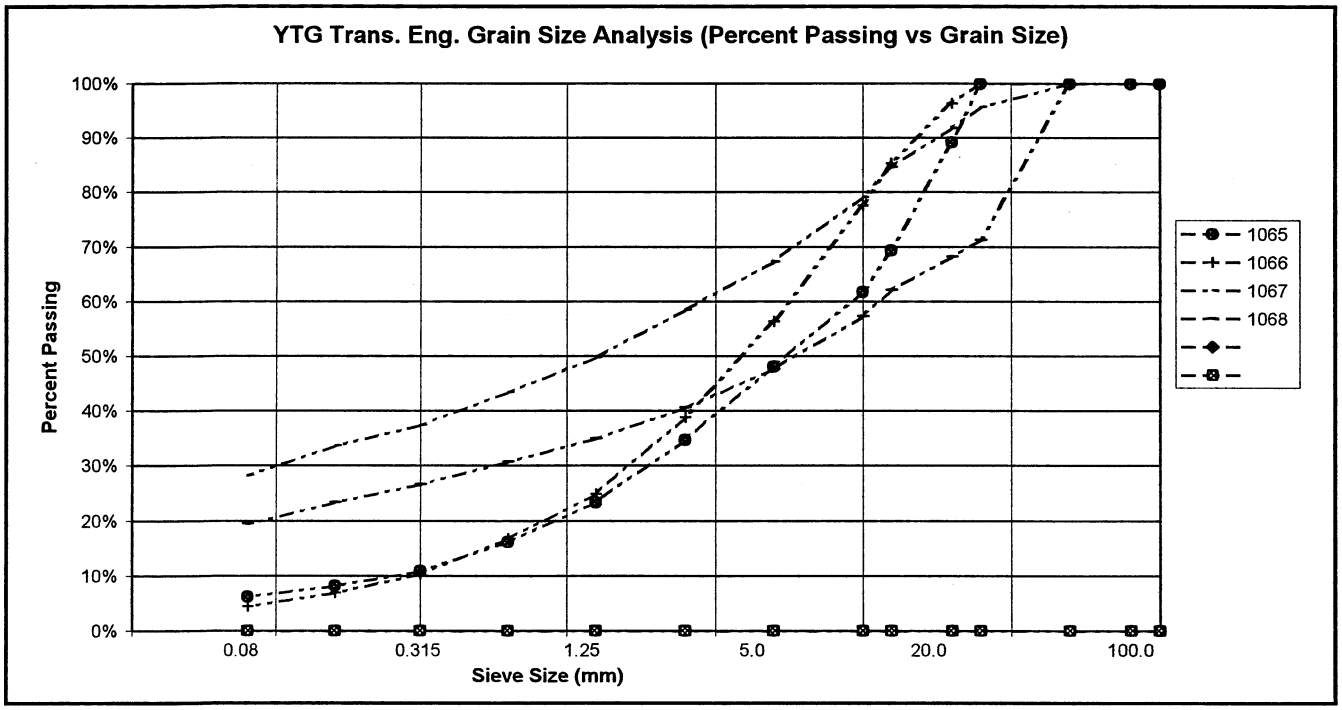
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 618-479
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/05

FIELD NO:	1061	1062	1063	1064		
LAB NO:	1838	1839	1840	1841		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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	95%	84%	100%	100%		
20.0	92%	82%	96%	100%		
12.5	89%	82%	91%	97%		
10.0	86%	81%	91%	92%		
5.0	79%	79%	88%	78%		
2.5	72%	75%	84%	69%		
1.25	66%	71%	81%	62%		
0.630	61%	68%	77%	56%		
0.315	56%	64%	72%	51%		
0.160	51%	60%	67%	46%		
0.080	44%	53%	60%	39%		
M.C.(%):	9%	10%	9%	7%		
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:	21	21	12	22		
% SAND:	35	25	28	39		
% FINES:	44	53	60	39		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SANDY SILT WITH GRAVEL (ML)	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)		



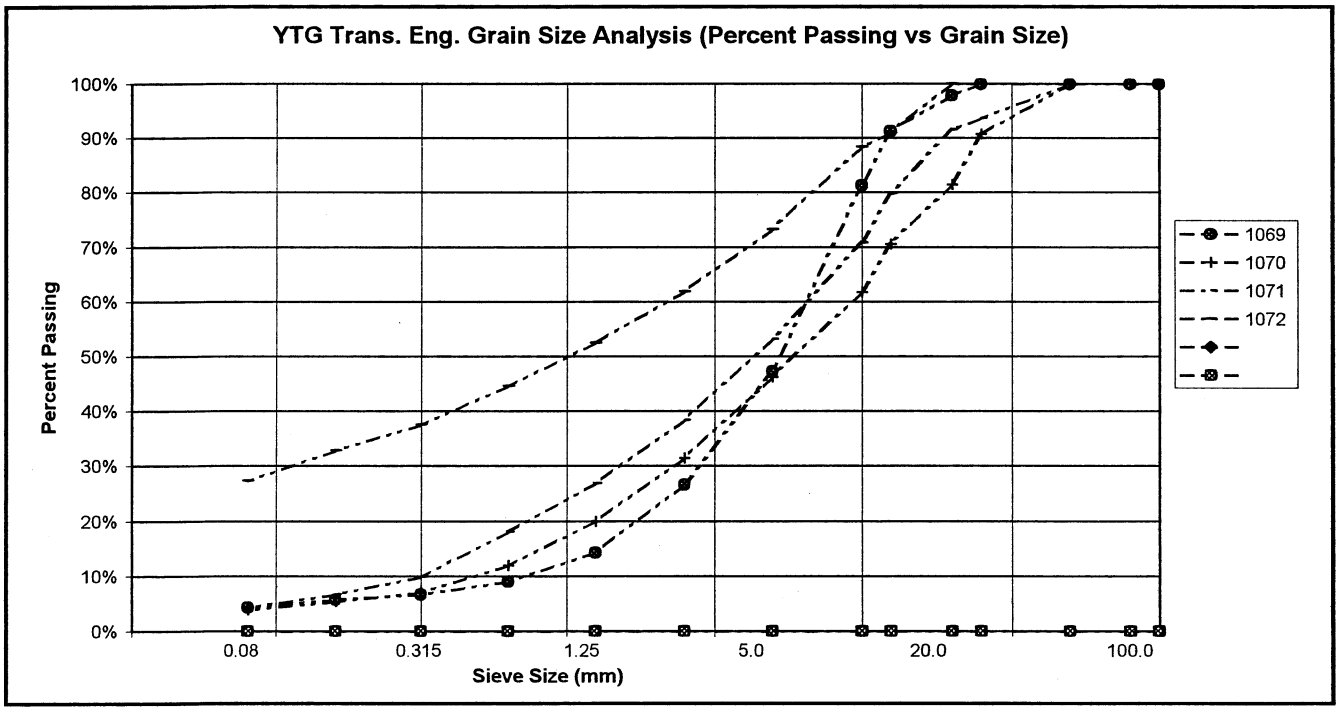
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 618-480
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/06

FIELD NO:	1065	1066	1067	1068		
LAB NO:	1842	1843	1844	1845		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.0		
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%	96%	71%		
20.0	89%	96%	92%	68%		
12.5	69%	85%	85%	62%		
10.0	62%	78%	79%	57%		
5.0	48%	56%	67%	48%		
2.5	35%	39%	58%	41%		
1.25	23%	25%	50%	35%		
0.630	16%	17%	43%	31%		
0.315	11%	10%	37%	27%		
0.160	8%	7%	34%	23%		
0.080	6%	4%	28%	20%		
M.C.(%):	3%	1%	5%	4%		
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:	52	44	33	52		
% SAND:	42	52	39	28		
% FINES:	6	4	28	20		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	WELL-GRADED SAND WITH GRAVEL (SW)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)		



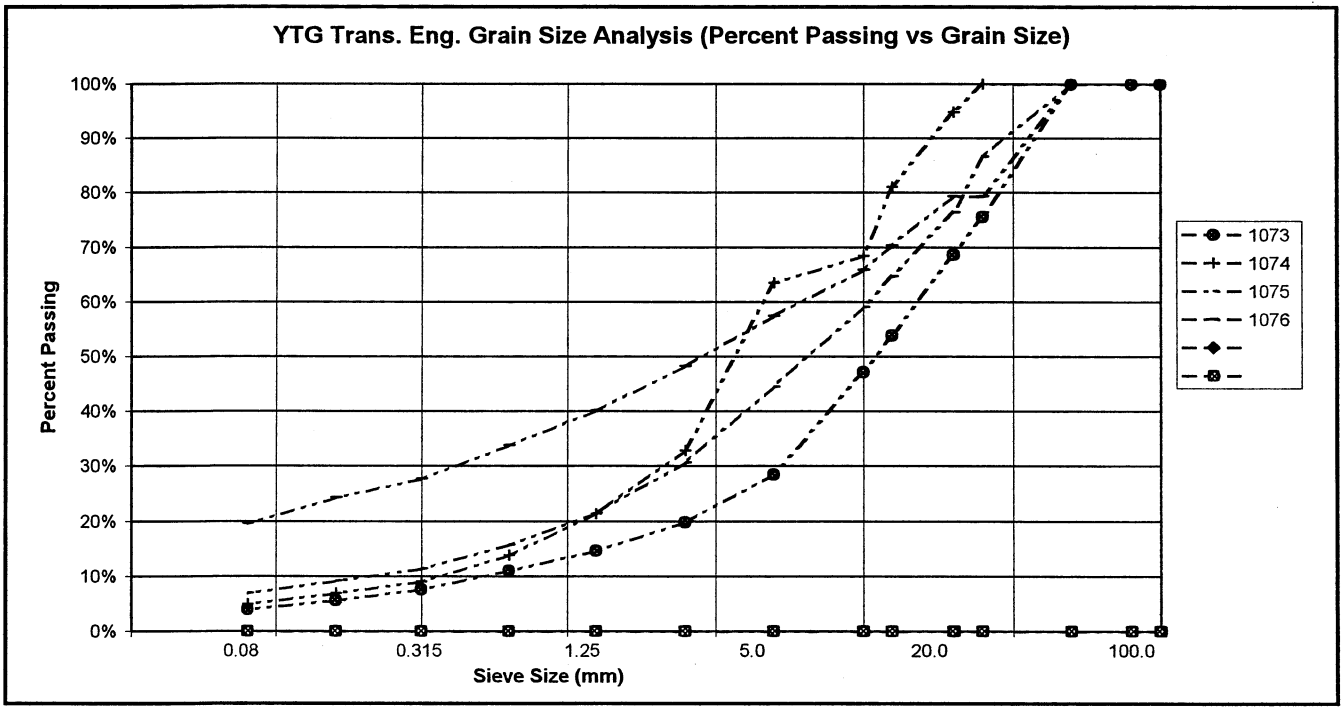
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 618-481
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/06

FIELD NO:	1069	1070	1071	1072		
LAB NO:	1846	1847	1848	1849		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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%	91%	94%	100%		
20.0	98%	81%	92%	100%		
12.5	91%	71%	80%	91%		
10.0	81%	62%	71%	88%		
5.0	47%	46%	53%	73%		
2.5	27%	31%	38%	62%		
1.25	14%	20%	27%	52%		
0.630	9%	12%	18%	45%		
0.315	7%	7%	10%	38%		
0.160	6%	5%	7%	33%		
0.080	4%	4%	4%	27%		
M.C.(%):	2%	2%	1%	8%		
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:	53	54	47	27		
% SAND:	43	42	49	46		
% FINES:	4	4	4	27		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SAND (GP)	WELL-GRADED SAND WITH GRAVEL (SW)	SILTY SAND WITH GRAVEL (SM)		



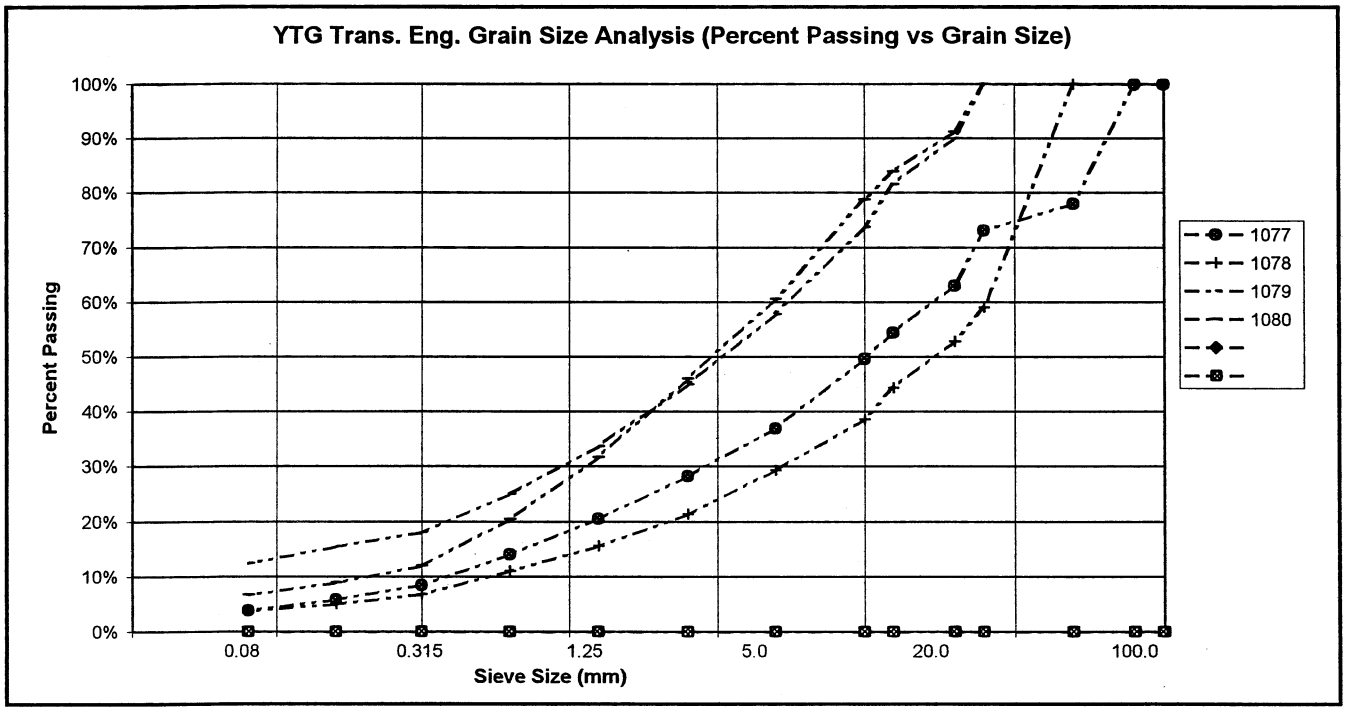
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 618-482
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/06

FIELD NO:	1073	1074	1075	1076		
LAB NO:	1850	1851	1852	1853		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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	76%	100%	87%	79%		
20.0	69%	95%	76%	79%		
12.5	54%	81%	65%	70%		
10.0	47%	68%	59%	66%		
5.0	28%	64%	45%	57%		
2.5	20%	33%	31%	48%		
1.25	15%	21%	22%	40%		
0.630	11%	14%	16%	34%		
0.315	8%	9%	11%	28%		
0.160	6%	7%	9%	24%		
0.080	4%	5%	7%	20%		
M.C.(%):	1%	1%	2%	3%		
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:	72	36	55	43		
% SAND:	24	59	38	38		
% FINES:	4	5	7	20		
CLASSIFICATION	WELL-GRADED GRAVEL WITH SAND (GW)	POORLY GRADED SAND WITH GRAVEL (SP)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY GRAVEL WITH SAND (GM)		



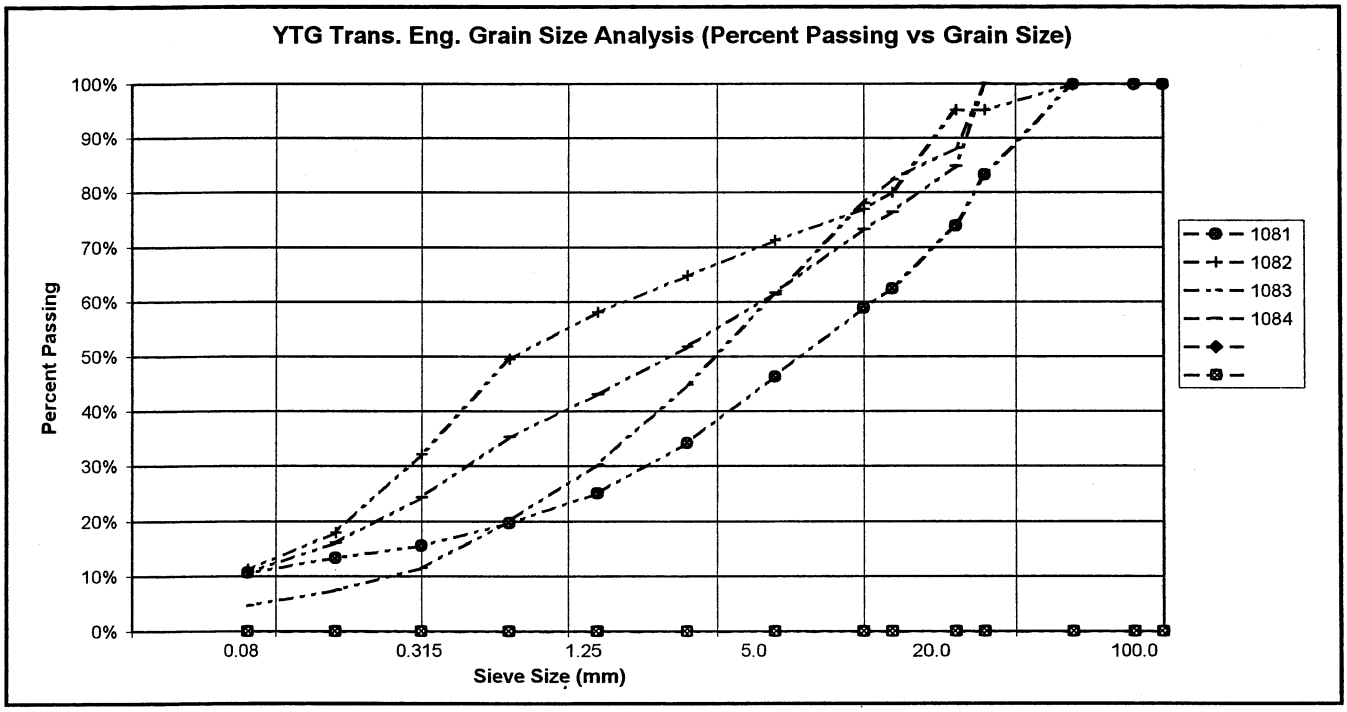
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 618-483
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/06

FIELD NO:	1077	1078	1079	1080		
LAB NO:	1854	1855	1856	1857		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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	78%	100%	100%	100%		
25.0	73%	59%	100%	100%		
20.0	63%	53%	90%	91%		
12.5	54%	44%	82%	84%		
10.0	50%	39%	74%	79%		
5.0	37%	29%	58%	61%		
2.5	28%	21%	45%	46%		
1.25	21%	16%	34%	32%		
0.630	14%	11%	25%	20%		
0.315	8%	7%	18%	12%		
0.160	6%	5%	15%	9%		
0.080	4%	4%	12%	7%		
M.C.(%):	2%	2%	4%	2%		
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:	63	71	42	39		
% SAND:	33	26	45	54		
% FINES:	4	4	12	7		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	WELL-GRADED GRAVEL WITH SAND (GW)	SILTY SAND WITH GRAVEL (SM)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)		



PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 618-484
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/06

FIELD NO:	1081	1082	1083	1084		
LAB NO:	1858	1859	1860	1861		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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	83%	95%	100%	100%		
20.0	74%	95%	88%	85%		
12.5	62%	80%	82%	76%		
10.0	59%	77%	78%	73%		
5.0	46%	71%	61%	62%		
2.5	34%	65%	45%	52%		
1.25	25%	58%	30%	43%		
0.630	20%	50%	20%	35%		
0.315	16%	32%	12%	24%		
0.160	13%	18%	7%	16%		
0.080	11%	11%	5%	11%		
M.C.(%):	3%	4%	2%	4%		
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:	54	29	39	38		
% SAND:	36	60	57	51		
% FINES:	11	11	5	11		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	WELL-GRADED SAND WITH GRAVEL (SW)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)		

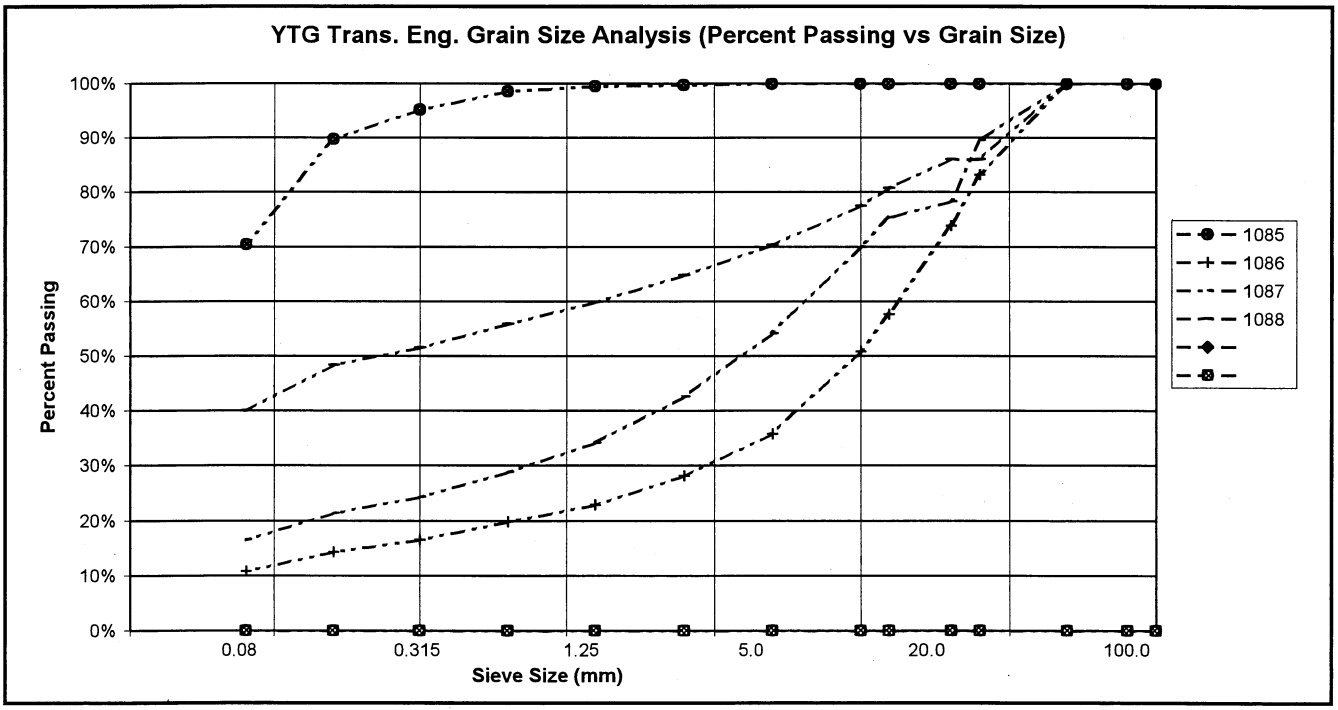


PROJECT NUMBER: 092-202101-0362-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 10
PROJECT LOCATION: Km 1692.6-1729.6 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: See Testhole Log Sheet
LOGGED BY: G.C.

HOLE No.: 619-485

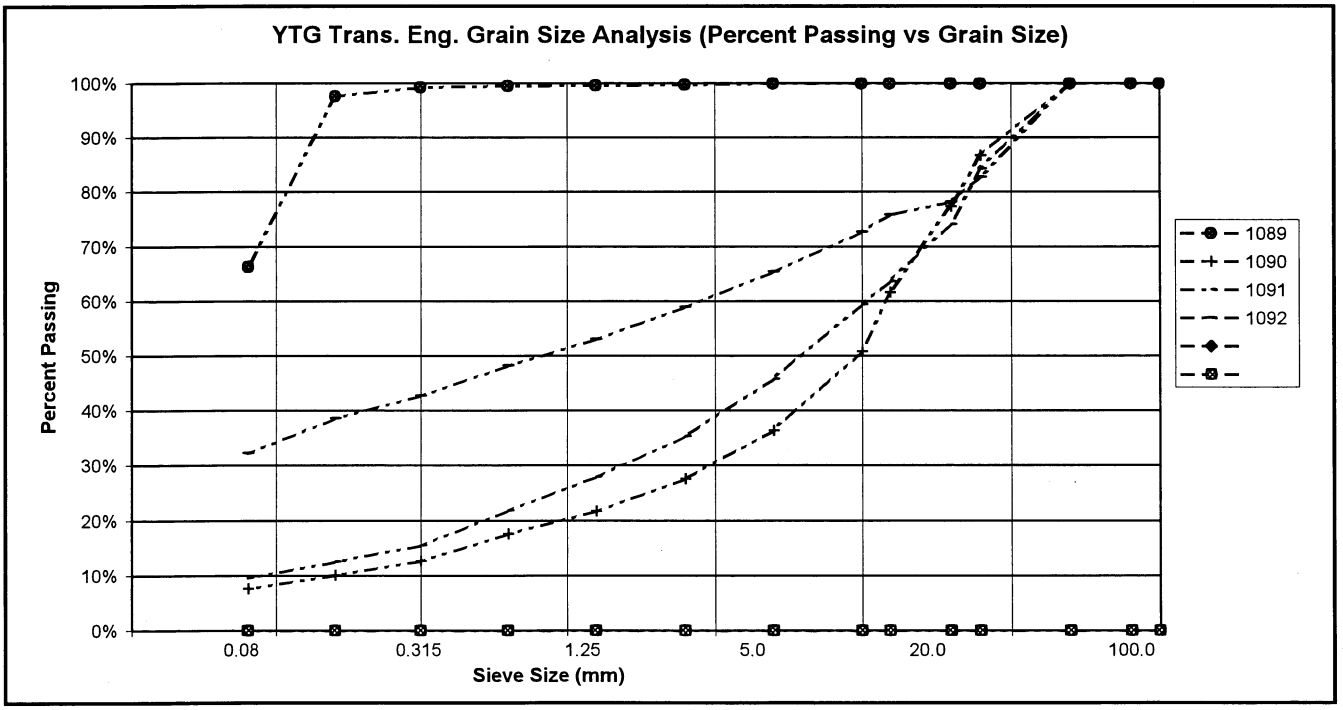
DATE COMP: 2001/09/06

FIELD NO:	1085	1086	1087	1088		
LAB NO:	1862	1863	1864	1865		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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%	83%	90%	86%		
20.0	100%	74%	78%	86%		
12.5	100%	58%	75%	81%		
10.0	100%	51%	70%	77%		
5.0	100%	36%	54%	70%		
2.5	100%	28%	43%	65%		
1.25	100%	23%	34%	60%		
0.630	99%	20%	29%	56%		
0.315	95%	17%	24%	52%		
0.160	90%	14%	21%	48%		
0.080	70%	11%	17%	40%		
M.C.(%):	14%	3%	4%	12%		
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	64	46	30		
% SAND:	30	25	38	30		
% FINES:	70	11	17	40		
CLASSIFICATION	SILT WITH SAND (ML)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)		



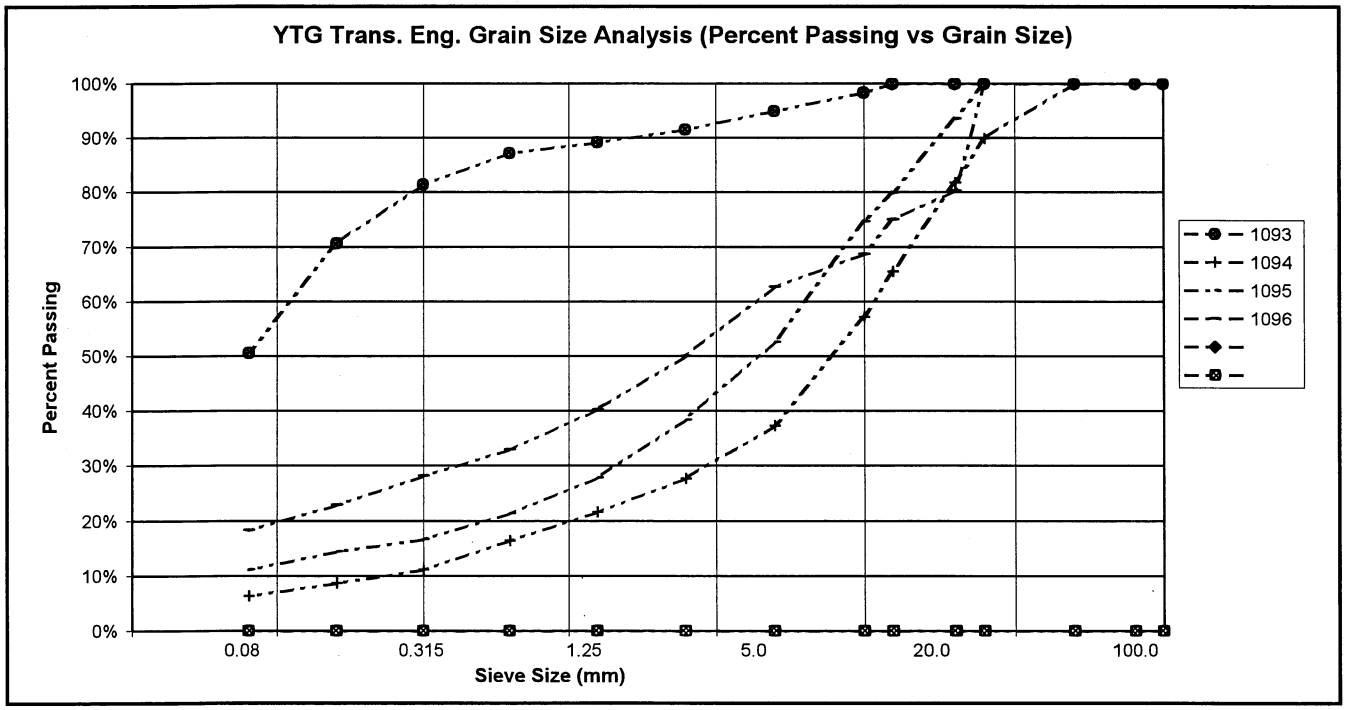
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 619-486
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/06

FIELD NO:	1089	1090	1091	1092		
LAB NO:	1866	1867	1868	1869		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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%	87%	84%	83%		
20.0	100%	77%	74%	78%		
12.5	100%	62%	64%	76%		
10.0	100%	51%	59%	73%		
5.0	100%	36%	46%	65%		
2.5	100%	28%	35%	59%		
1.25	100%	22%	28%	53%		
0.630	100%	18%	22%	48%		
0.315	99%	13%	15%	43%		
0.160	98%	10%	13%	39%		
0.080	66%	8%	10%	32%		
M.C.(%):	13%	2%	2%	7%		
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	64	54	35		
% SAND:	34	29	36	33		
% FINES:	66	8	10	32		
CLASSIFICATION	SANDY SILT (ML)	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY GRAVEL WITH SAND (GM)		



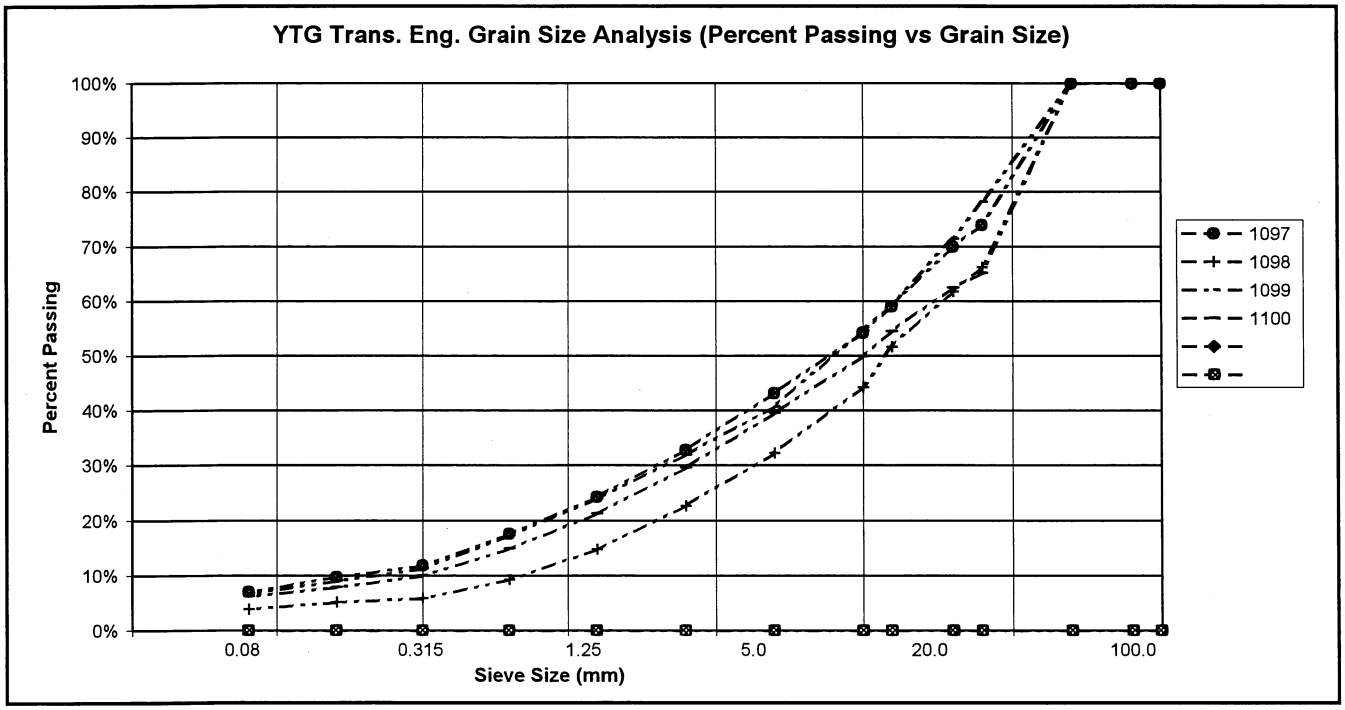
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 619-487
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/06

FIELD NO:	1093	1094	1095	1096		
LAB NO:	1870	1871	1872	1873		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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%	90%	100%	100%		
20.0	100%	82%	94%	80%		
12.5	100%	65%	80%	75%		
10.0	98%	57%	75%	69%		
5.0	95%	37%	53%	63%		
2.5	92%	28%	38%	50%		
1.25	89%	22%	28%	40%		
0.630	87%	16%	21%	33%		
0.315	81%	11%	17%	28%		
0.160	71%	9%	14%	23%		
0.080	51%	6%	11%	18%		
M.C.(%):	18%	3%	3%	3%		
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:	5	63	47	37		
% SAND:	44	31	41	44		
% FINES:	51	6	11	18		
CLASSIFICATION	SANDY SILT (ML)	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY SAND WITH GRAVEL (SM)		



PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 619-488
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/06

FIELD NO:	1097	1098	1099	1100		
LAB NO:	1874	1875	1876	1877		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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	74%	66%	78%	65%		
20.0	70%	62%	71%	62%		
12.5	59%	52%	59%	54%		
10.0	54%	44%	55%	50%		
5.0	43%	32%	41%	40%		
2.5	33%	23%	32%	30%		
1.25	24%	15%	24%	21%		
0.630	18%	9%	17%	15%		
0.315	12%	6%	11%	10%		
0.160	10%	5%	9%	8%		
0.080	7%	4%	7%	6%		
M.C.(%):	3%	1%	3%	2%		
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:	57	68	59	60		
% SAND:	36	28	34	33		
% FINES:	7	4	7	6		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		

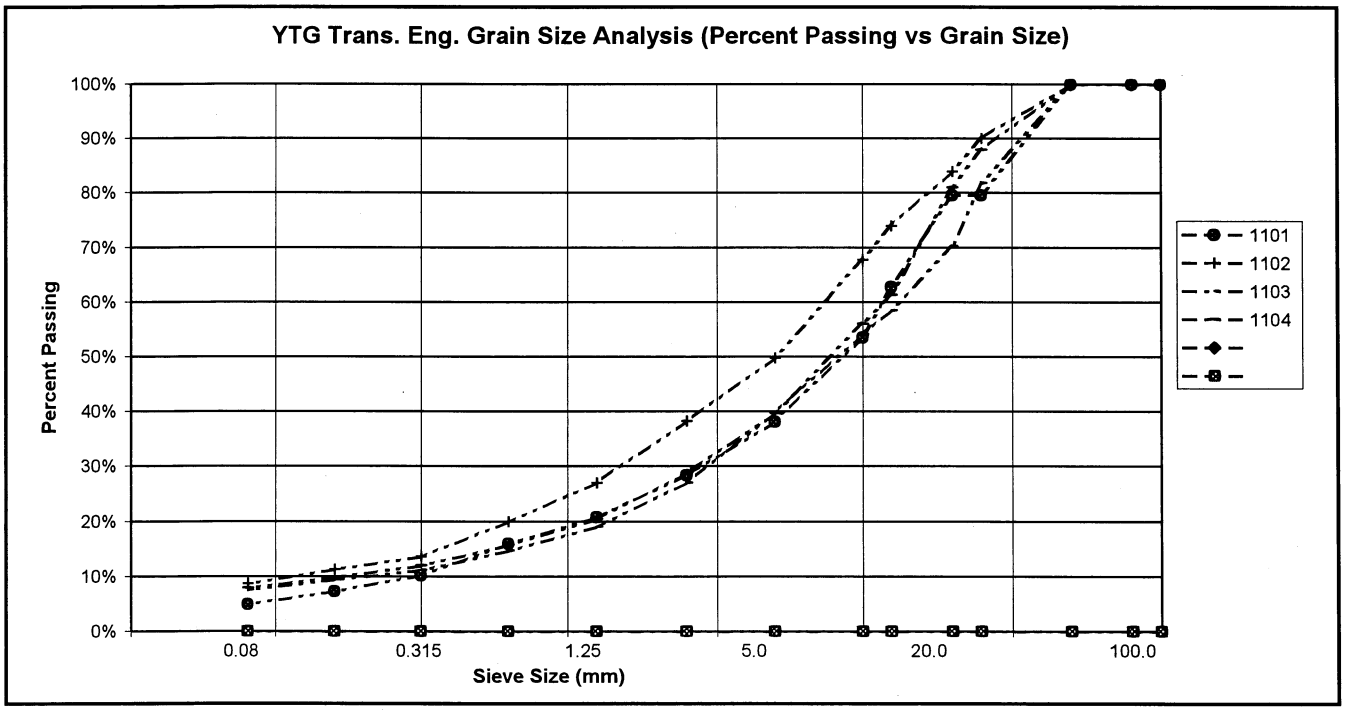


PROJECT NUMBER: 092-202101-0362-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 10
PROJECT LOCATION: Km 1692.6-1729.6 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: See Testhole Log Sheet
LOGGED BY: G.C.

HOLE No.: 619-489

DATE COMP: 2001/09/06

FIELD NO:	1101	1102	1103	1104		
LAB NO:	1878	1879	1880	1881		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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	80%	90%	82%	88%		
20.0	80%	84%	70%	81%		
12.5	63%	74%	58%	61%		
10.0	54%	68%	54%	56%		
5.0	38%	50%	40%	40%		
2.5	28%	38%	27%	29%		
1.25	21%	27%	19%	20%		
0.630	16%	20%	15%	16%		
0.315	10%	14%	11%	12%		
0.160	7%	11%	9%	10%		
0.080	5%	9%	8%	8%		
M.C.(%):	2%	3%	3%	2%		
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:	62	50	60	60		
% SAND:	33	41	32	32		
% FINES:	5	9	8	8		
CLASSIFICATION	WELL-GRADED GRAVEL WITH SAND (GW)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)		

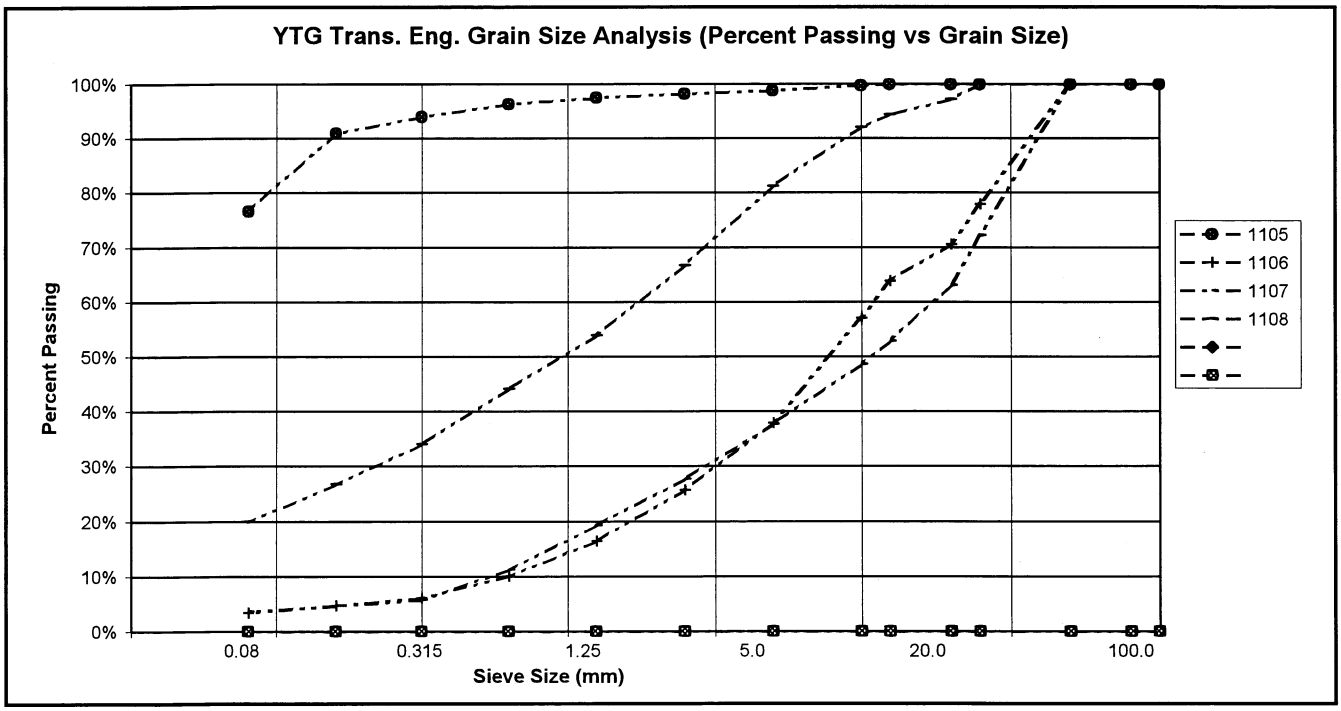


PROJECT NUMBER: 092-202101-0362-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 10
PROJECT LOCATION: Km 1692.6-1729.6 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: See Testhole Log Sheet
LOGGED BY: G.C.

HOLE No.: 619-490

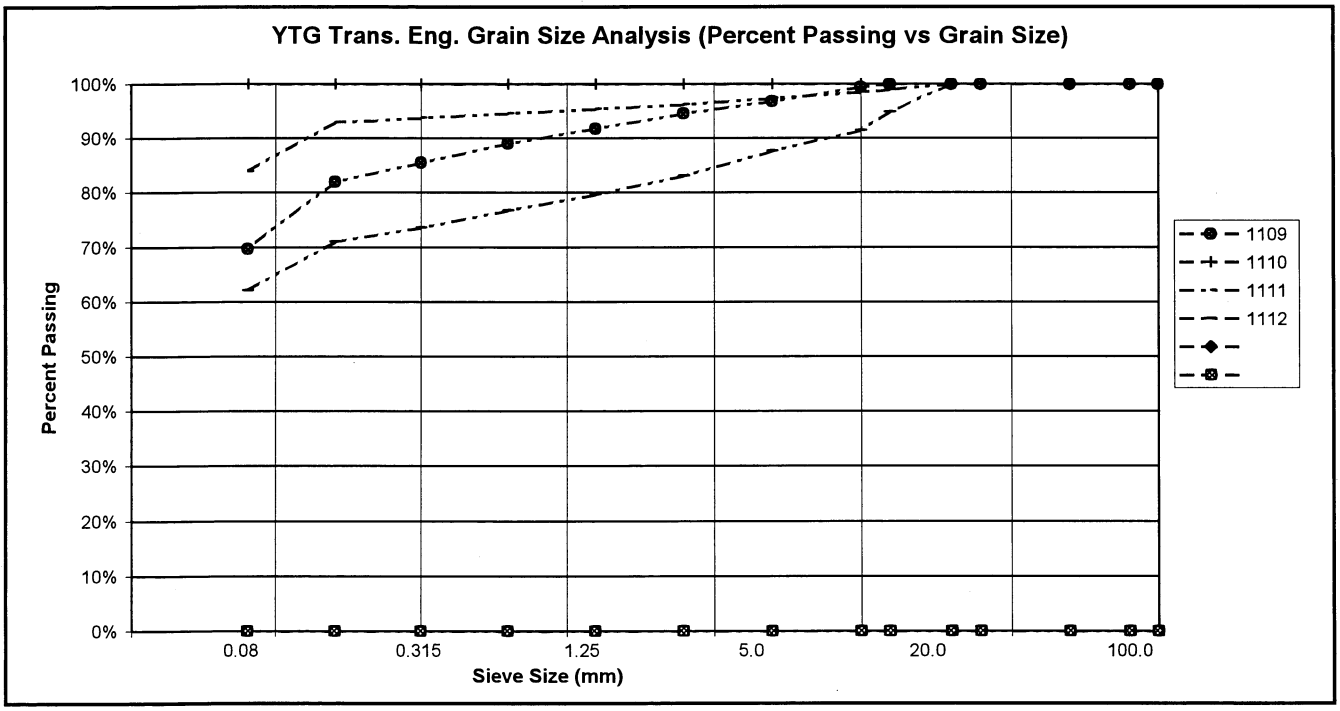
DATE COMP: 2001/09/06

FIELD NO:	1105	1106	1107	1108		
LAB NO:	1882	1883	1884	1885		
DEPTH:	0.4-0.8	1.6-2.0	2.6-3.0	3.8-4.3		
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%	78%	72%	100%		
20.0	100%	71%	63%	97%		
12.5	100%	64%	53%	94%		
10.0	100%	57%	49%	92%		
5.0	99%	38%	38%	81%		
2.5	98%	26%	28%	67%		
1.25	98%	16%	19%	54%		
0.630	96%	10%	11%	44%		
0.315	94%	6%	6%	34%		
0.160	91%	5%	5%	27%		
0.080	77%	3%	4%	20%		
M.C.(%):	24%	1%	2%	3%		
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:	1	62	62	19		
% SAND:	22	35	34	61		
% FINES:	77	3	4	20		
CLASSIFICATION	SILT WITH SAND (ML)	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SAND (GP)	SILTY SAND WITH GRAVEL (SM)		



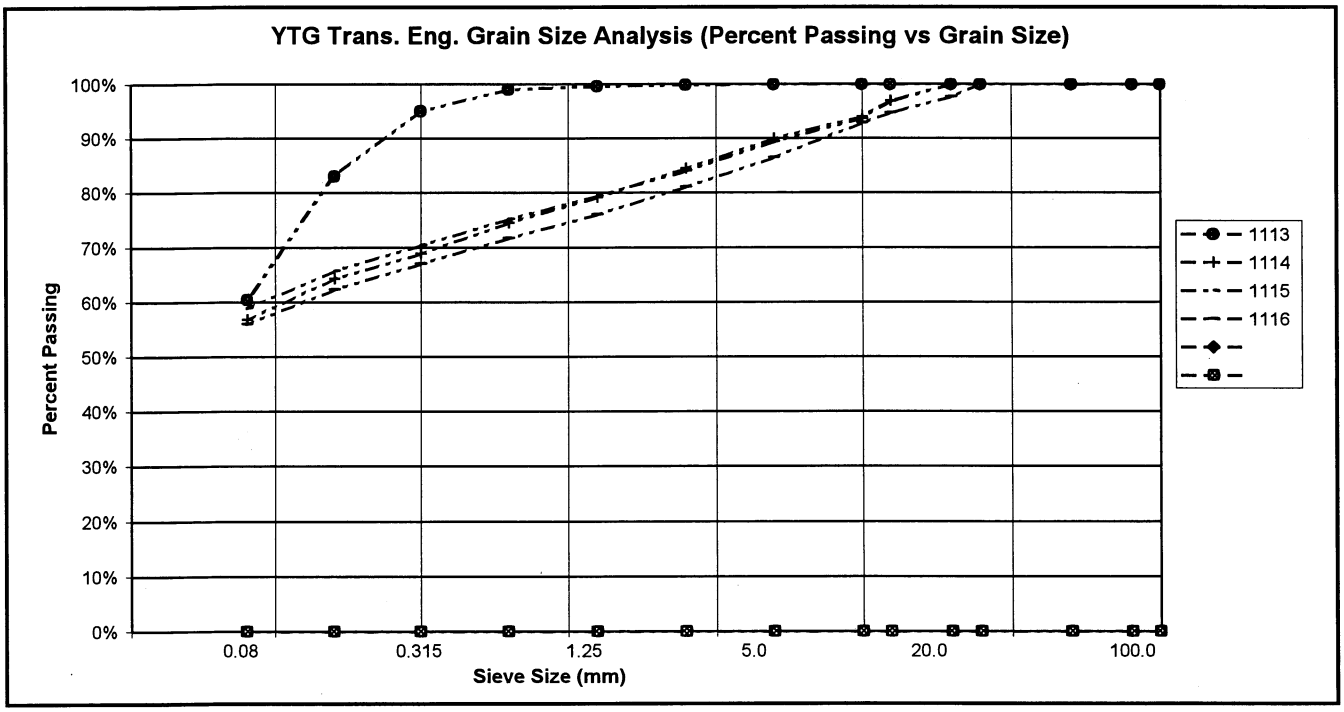
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 619-491
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/06

FIELD NO:	1109	1110	1111	1112		
LAB NO:	1886	lost	1888	1889		
DEPTH:	0.6-1.0	1.4-1.8	2.6-3.0	3.8-4.3		
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%	100%		
20.0	100%	100%	100%	100%		
12.5	100%	100%	99%	95%		
10.0	99%	100%	98%	91%		
5.0	97%	100%	97%	88%		
2.5	95%	100%	96%	83%		
1.25	92%	100%	95%	80%		
0.630	89%	100%	95%	77%		
0.315	86%	100%	94%	74%		
0.160	82%	100%	93%	71%		
0.080	70%	100%	84%	62%		
M.C.(%):	16%	6%	6%	7%		
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:	3	0	3	12		
% SAND:	27	0	13	26		
% FINES:	70	100	84	62		
CLASSIFICATION	SANDY SILT (ML)	SILT (ML)	SILT WITH SAND (ML)	SANDY SILT (ML)		



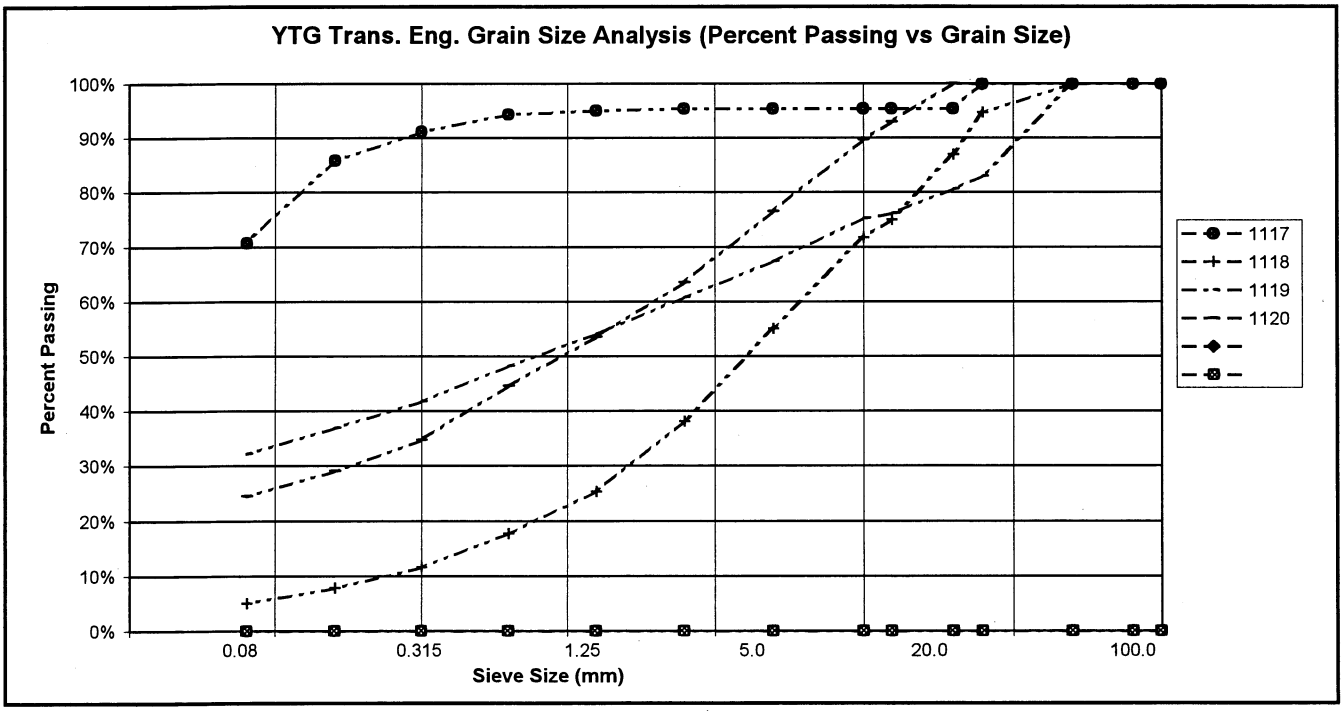
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 619-492
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/06

FIELD NO:	1113	1114	1115	1116		
LAB NO:	1890	1891	1892	1893		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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%	100%		
20.0	100%	100%	100%	98%		
12.5	100%	97%	97%	95%		
10.0	100%	94%	94%	93%		
5.0	100%	90%	89%	86%		
2.5	100%	85%	84%	81%		
1.25	100%	79%	79%	76%		
0.630	99%	74%	75%	72%		
0.315	95%	69%	70%	67%		
0.160	83%	64%	66%	62%		
0.080	61%	57%	59%	56%		
M.C.(%):	13%	9%	8%	8%		
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	10	11	14		
% SAND:	39	33	30	30		
% FINES:	61	57	59	56		
CLASSIFICATION	SANDY SILT (ML)	SANDY SILT (ML)	SANDY SILT (ML)	SANDY SILT (ML)		



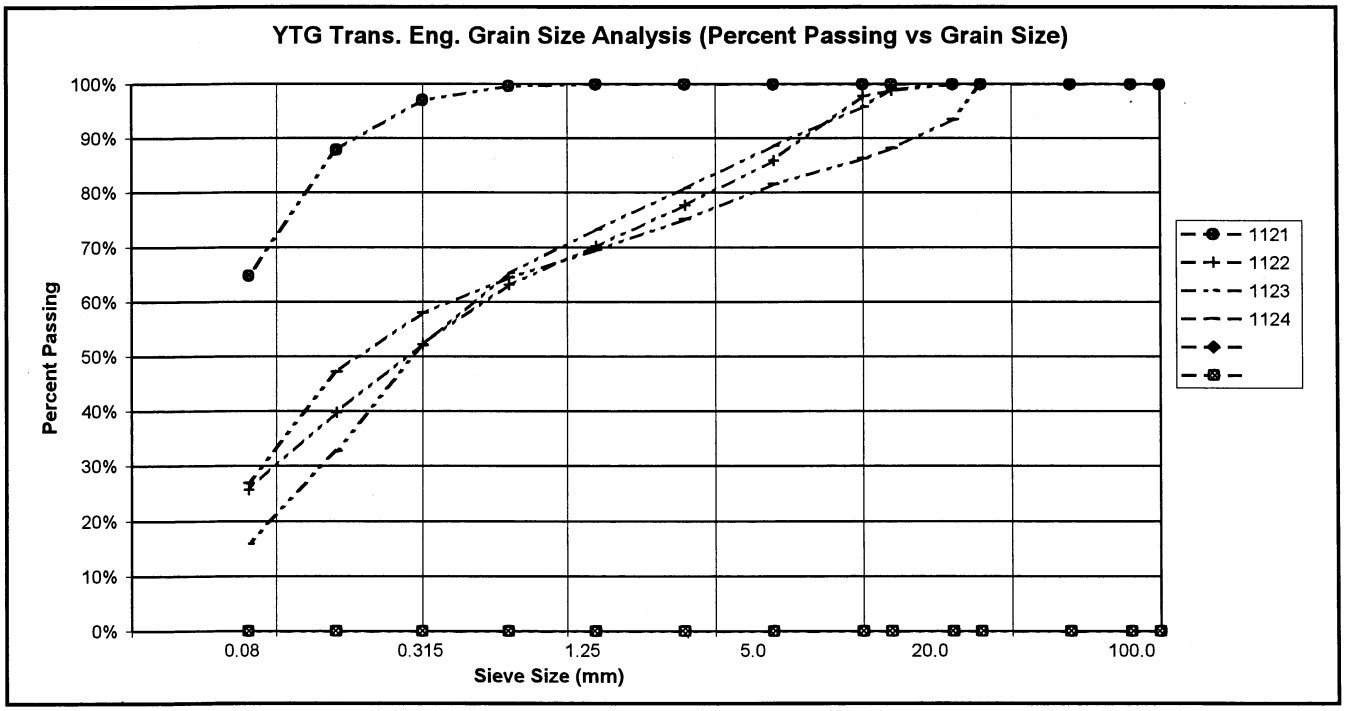
PROJECT NUMBER:	092-202101-0362-1	HOLE No.:	619-493
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.	DATE COMP:	2001/09/06

FIELD NO:	1117	1118	1119	1120		
LAB NO:	1894	1895	1896	1897		
DEPTH:	0.4-0.8	1.6-2.0	2.8-3.0	3.8-4.3		
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%	95%	83%	100%		
20.0	95%	87%	81%	100%		
12.5	95%	75%	76%	93%		
10.0	95%	72%	75%	90%		
5.0	95%	55%	67%	77%		
2.5	95%	38%	61%	63%		
1.25	95%	25%	54%	53%		
0.630	94%	18%	48%	45%		
0.315	91%	12%	42%	35%		
0.160	86%	8%	37%	29%		
0.080	71%	5%	32%	25%		
M.C.(%):	27%	1%	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:	5	45	33	23		
% SAND:	25	50	35	52		
% FINES:	71	5	32	25		
CLASSIFICATION	SILT WITH SAND (ML)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		



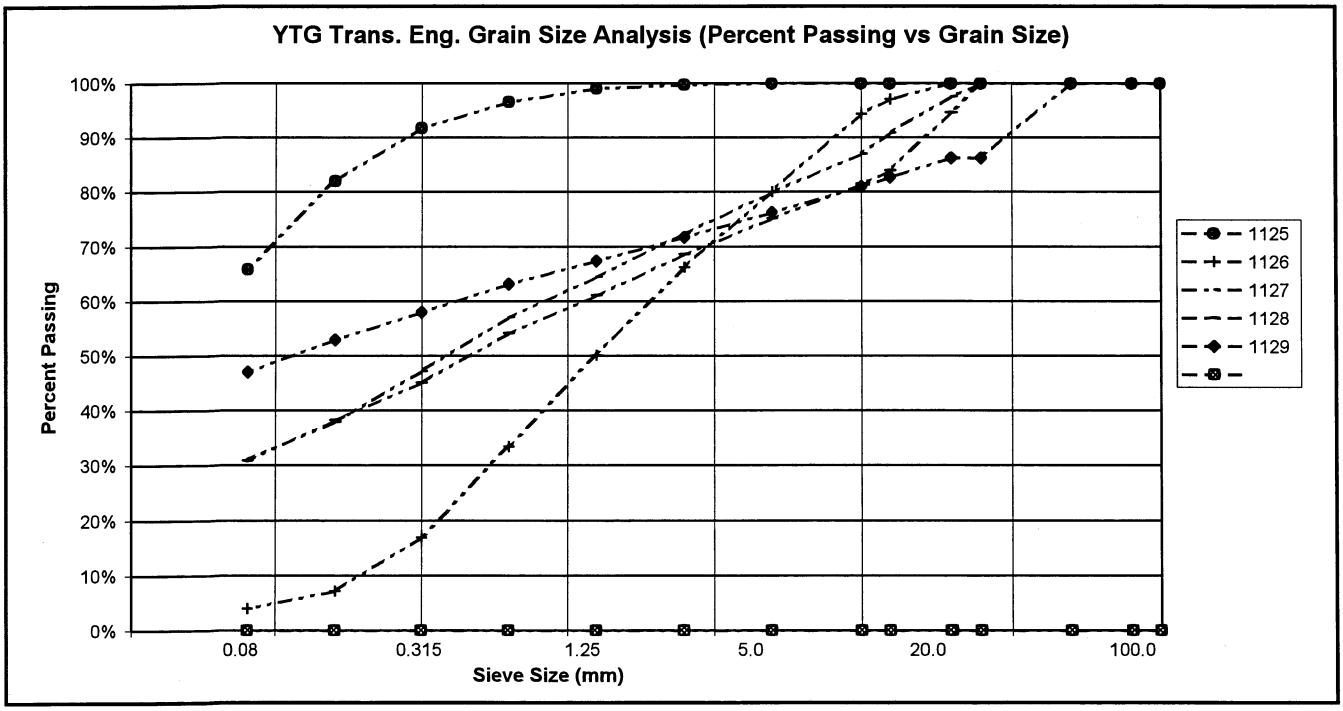
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 619-494
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/06

FIELD NO:	1121	1122	1123	1124		
LAB NO:	1898	1899	1900	1901		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	3.8-4.3		
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%	100%		
20.0	100%	100%	100%	93%		
12.5	100%	99%	99%	88%		
10.0	100%	98%	96%	86%		
5.0	100%	86%	89%	82%		
2.5	100%	78%	81%	75%		
1.25	100%	70%	73%	69%		
0.630	100%	63%	65%	64%		
0.315	97%	52%	52%	58%		
0.160	88%	40%	33%	47%		
0.080	65%	26%	16%	27%		
M.C.(%):	13%	4%	3%	3%		
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	14	11	18		
% SAND:	35	60	73	55		
% FINES:	65	26	16	27		
CLASSIFICATION	SANDY SILT (ML)	SILTY SAND (SM)	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)		



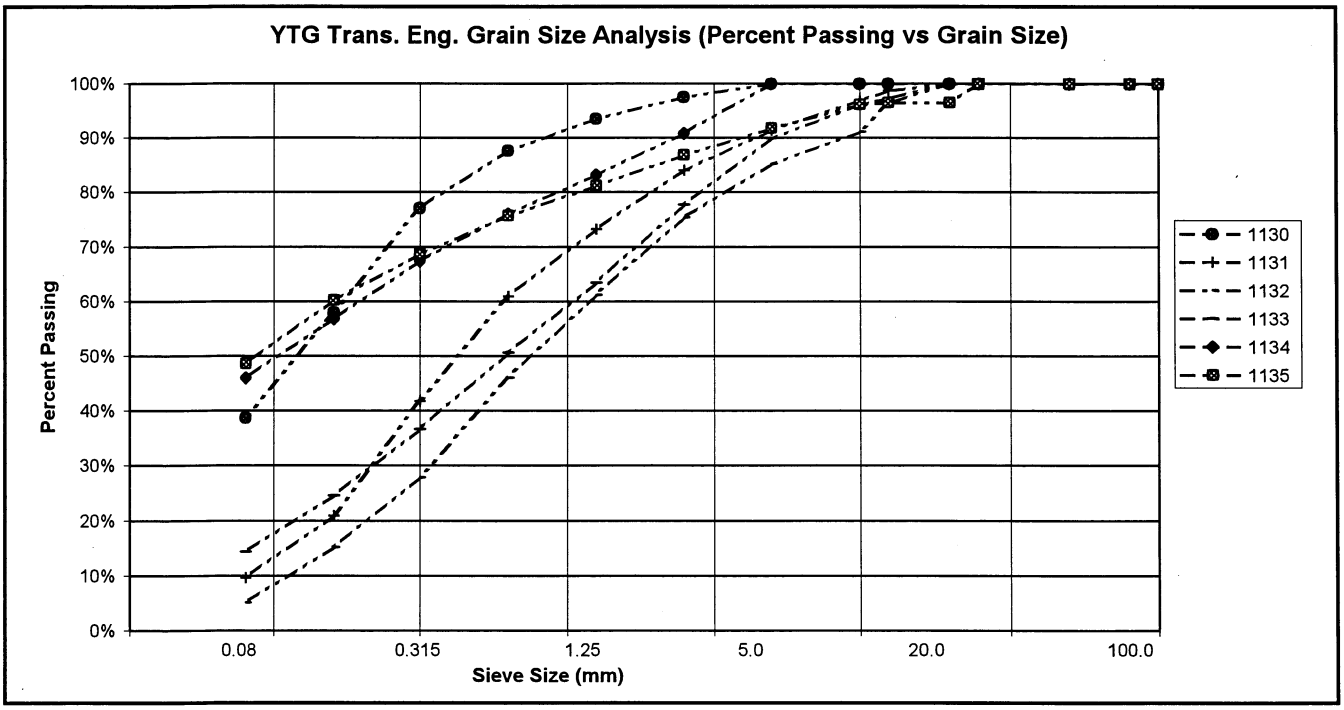
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 619-495
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/06

FIELD NO:	1125	1126	1127	1128	1129	
LAB NO:	1902	1903	1904	1905	1906	
DEPTH:	0.4-0.8	1.6-2.0	2.6-3.0	3.6-4.0	6.5-7.5	
TYPE:	AUGER	AUGER	AUGER	AUGER	AUGER	AUGER
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	
100.0	100%	100%	100%	100%	100%	
80.0	100%	100%	100%	100%	100%	
50.0	100%	100%	100%	100%	100%	
25.0	100%	100%	100%	100%	86%	
20.0	100%	100%	98%	95%	86%	
12.5	100%	97%	91%	84%	83%	
10.0	100%	94%	87%	82%	81%	
5.0	100%	80%	80%	75%	76%	
2.5	100%	66%	72%	69%	72%	
1.25	99%	50%	64%	61%	67%	
0.630	97%	34%	57%	54%	63%	
0.315	92%	17%	47%	45%	58%	
0.160	82%	7%	38%	38%	53%	
0.080	66%	4%	31%	31%	47%	
M.C.(%):	15%	1%	5%	5%	7%	
LIQUID LIMIT:	0.0	0.0	0.0	0.0	0.0	
PLASTIC LIMIT:	0.0	0.0	0.0	0.0	0.0	
PLASTIC INDEX.:	0.0	0.0	0.0	0.0	0.0	
% GRAVEL:	0	20	20	25	24	
% SAND:	34	76	49	44	29	
% FINES:	66	4	31	31	47	
CLASSIFICATION	SANDY SILT (ML)	POORLY GRADED SAND WITH GRAVEL (SP)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	



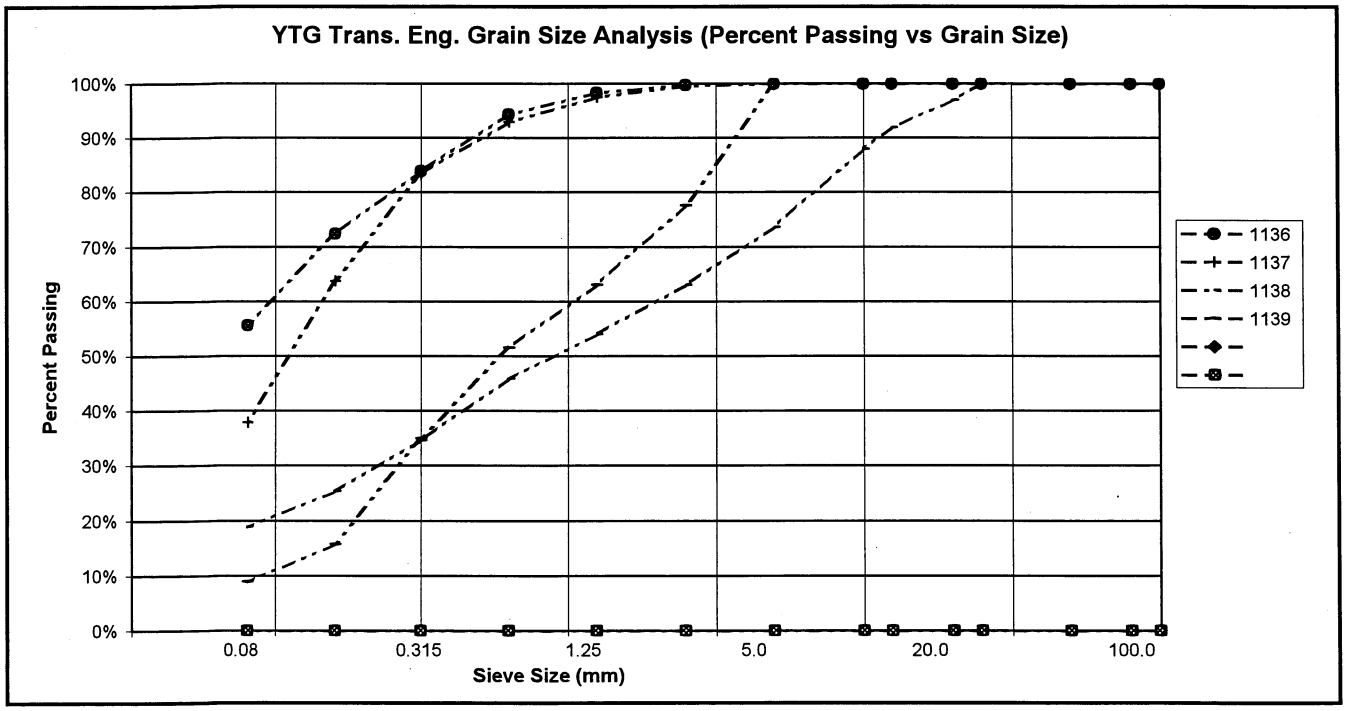
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 619-496
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/06

FIELD NO:	1130	1131	1132	1133	1134	1135
LAB NO:	1907	1908	1909	1910	1911	1912
DEPTH:	0.5-1.0	1.8-2.0	2.6-3.0	4.0-4.5	6.0-6.5	8.0-9.0
TYPE:	AUGER	AUGER	AUGER	AUGER	AUGER	AUGER
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING
100.0	100%	100%	100%	100%	100%	100%
80.0	100%	100%	100%	100%	100%	100%
50.0	100%	100%	100%	100%	100%	100%
25.0	100%	100%	100%	100%	100%	100%
20.0	100%	100%	100%	100%	100%	96%
12.5	100%	99%	97%	97%	100%	96%
10.0	100%	97%	91%	96%	100%	96%
5.0	100%	91%	85%	90%	100%	92%
2.5	98%	84%	75%	78%	91%	87%
1.25	94%	73%	61%	63%	83%	81%
0.630	88%	61%	46%	51%	76%	76%
0.315	77%	42%	28%	37%	67%	69%
0.160	58%	21%	15%	25%	57%	60%
0.080	39%	10%	5%	14%	46%	49%
M.C.(%):	11%	2%	2%	3%	7%	6%
LIQUID LIMIT:	0.0	0.0	0.0	0.0	0.0	0.0
PLASTIC LIMIT:	0.0	0.0	0.0	0.0	0.0	0.0
PLASTIC INDEX.:	0.0	0.0	0.0	0.0	0.0	0.0
% GRAVEL:	0	9	15	10	0	8
% SAND:	61	82	80	76	54	43
% FINES:	39	10	5	14	46	49
CLASSIFICATION	SILTY SAND (SM)	POORLY GRADED SAND WITH SILT (SP-SM)	POORLY GRADED SAND WITH SILT (SP-SM)	SILTY SAND (SM)	SILTY SAND (SM)	SILTY SAND (SM)



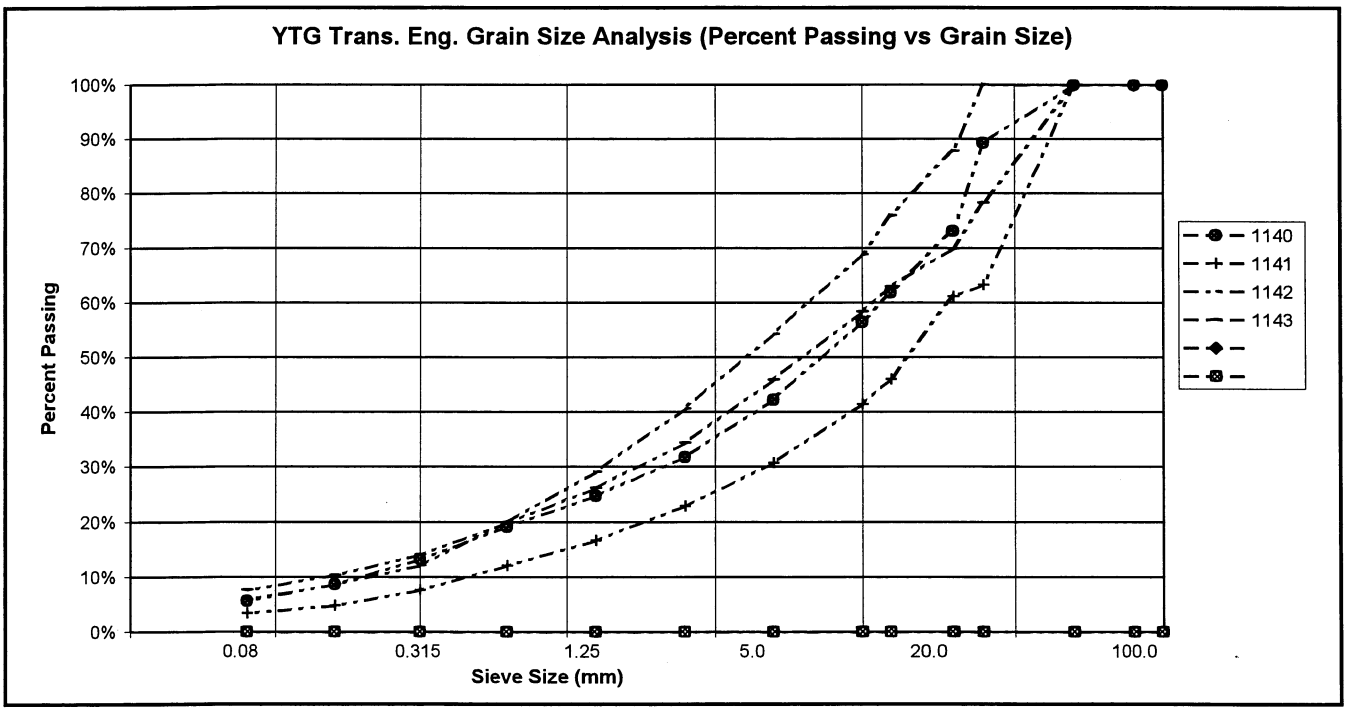
PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 619-497
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/06

FIELD NO:	1136	1137	1138	1139		
LAB NO:	1913	1914	1915	1916		
DEPTH:	0.5-1.0	1.6-2.0	2.6-3.0	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%	100%	100%		
20.0	100%	100%	97%	100%		
12.5	100%	100%	92%	100%		
10.0	100%	100%	88%	100%		
5.0	100%	100%	74%	100%		
2.5	100%	100%	63%	78%		
1.25	98%	98%	54%	63%		
0.630	94%	93%	46%	52%		
0.315	84%	83%	35%	35%		
0.160	72%	64%	25%	16%		
0.080	56%	38%	19%	9%		
M.C.(%):	5%	3%	3%	2%		
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	26	0		
% SAND:	44	62	55	91		
% FINES:	56	38	19	9		
CLASSIFICATION	SANDY SILT (ML)	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)	POORLY GRADED SAND WITH SILT (SP-SM)		



PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 619-498
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/07

FIELD NO:	1140	1141	1142	1143		
LAB NO:	1917	1918	1919	1920		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	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	89%	63%	100%	78%		
20.0	73%	61%	88%	70%		
12.5	62%	46%	76%	63%		
10.0	56%	41%	69%	58%		
5.0	42%	31%	54%	46%		
2.5	32%	23%	41%	34%		
1.25	25%	17%	29%	26%		
0.630	19%	12%	20%	20%		
0.315	13%	8%	12%	14%		
0.160	9%	5%	9%	10%		
0.080	6%	3%	6%	8%		
M.C.(%):	3%	2%	3%	3%		
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:	58	69	46	54		
% SAND:	37	27	48	38		
% FINES:	6	3	6	8		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SAND (GP)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		

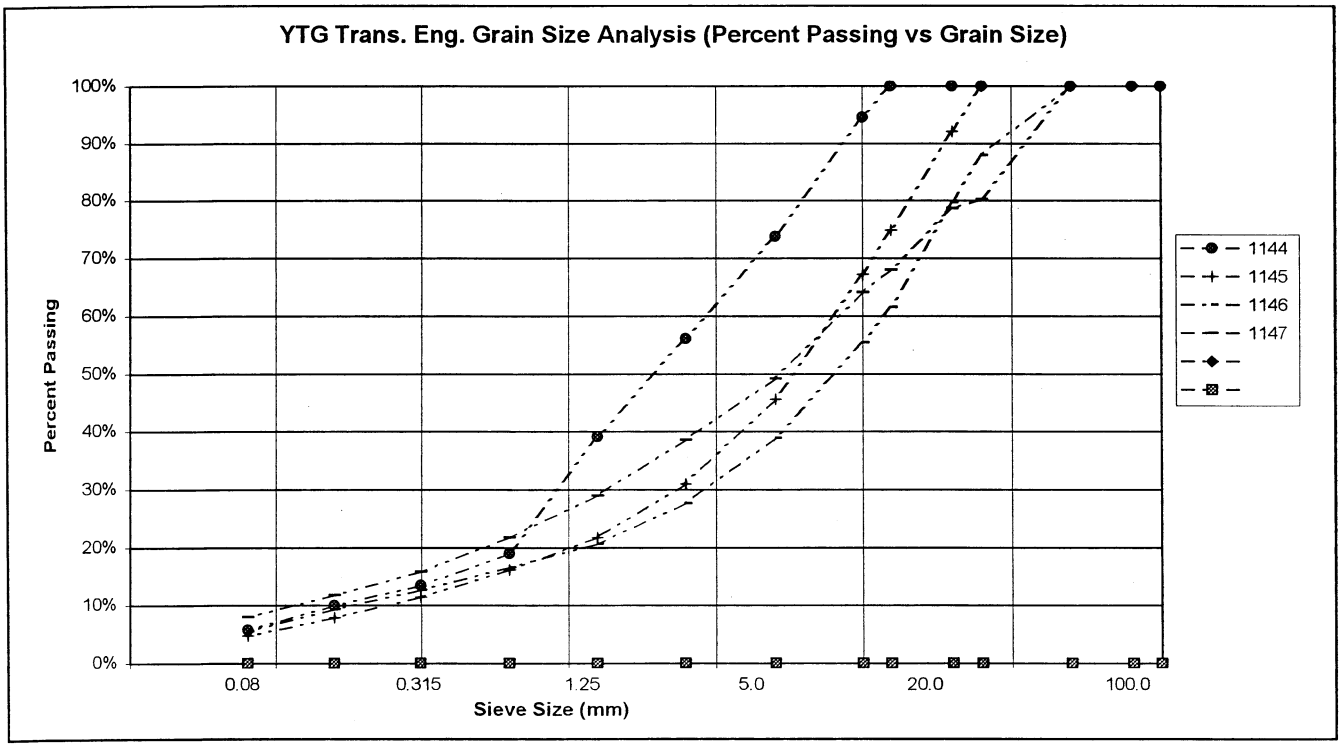


PROJECT NUMBER: 092-202101-0362-1
CLIENT: ENGINEERING CAPITAL
PROJECT NAME: SHAKWAK SEG 10
PROJECT LOCATION: Km 1692.6-1729.6 A/H
DRILL UNIT: MOBILE B40 L
HOLE LOCATION: See Testhole Log Sheet
LOGGED BY: G.C.

HOLE No.: 619-499

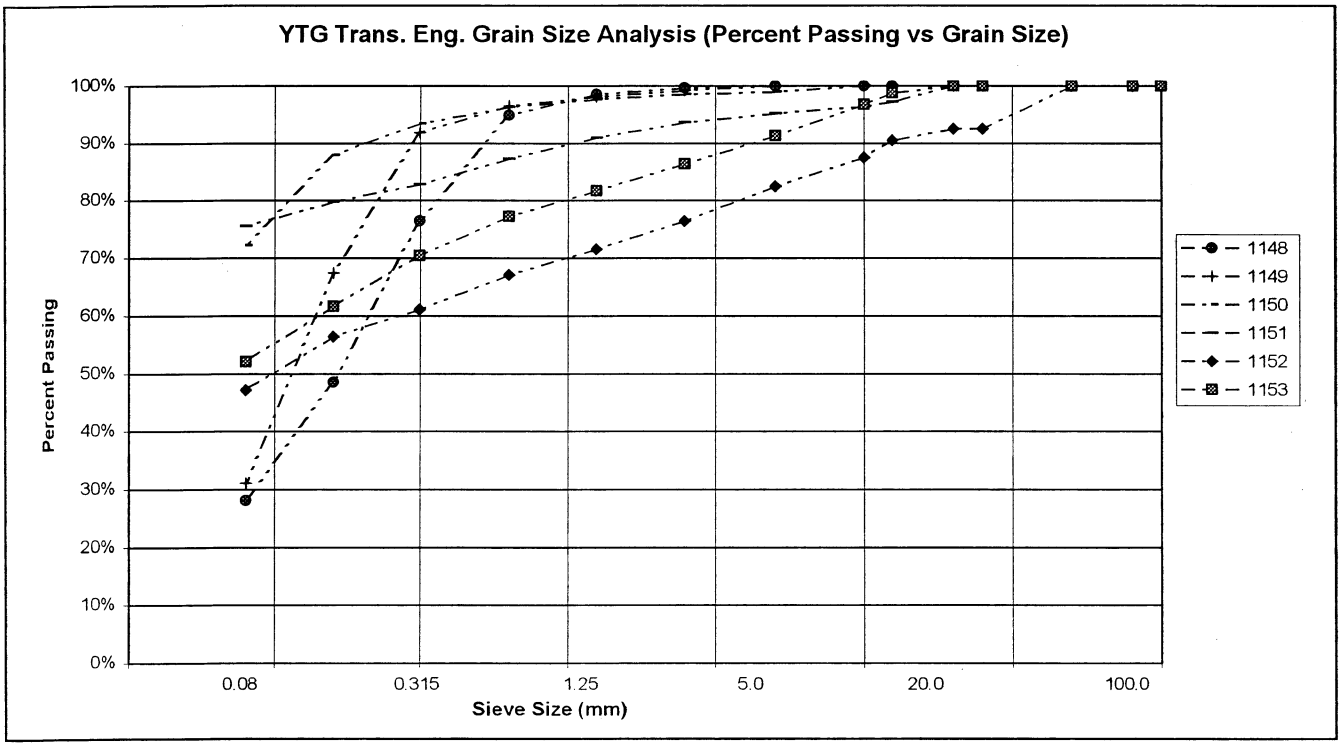
DATE COMP: 2001/09/07

FIELD NO:	1144	1145	1146	1147		
LAB NO:	1921	1922	1923	1924		
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	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%	88%	80%		
20.0	100%	92%	80%	79%		
12.5	100%	75%	61%	68%		
10.0	95%	67%	55%	64%		
5.0	74%	46%	39%	49%		
2.5	56%	31%	28%	39%		
1.25	39%	22%	21%	29%		
0.630	19%	16%	17%	22%		
0.315	13%	11%	13%	16%		
0.160	10%	8%	9%	12%		
0.080	6%	5%	6%	8%		
M.C.(%):	4%	2%	3%	4%		
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:	26	54	61	51		
% SAND:	68	41	33	41		
% FINES:	6	5	6	8		
CLASSIFICATION	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	POORLY GRADED GRAVEL WITH SAND (GP)	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		



PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 619-500
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/07

FIELD NO:	1148	1149	1150	1151	1152	1153
LAB NO:	1925	1926	1927	1928	1929	1930
DEPTH:	0.6-1.0	1.6-2.0	2.6-3.0	4.0-4.5	5.0-6.0	7.0-7.5
TYPE:	AUGER	AUGER	AUGER	AUGER	AUGER	AUGER
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING
100.0	100%	100%	100%	100%	100%	100%
80.0	100%	100%	100%	100%	100%	100%
50.0	100%	100%	100%	100%	100%	100%
25.0	100%	100%	100%	100%	93%	100%
20.0	100%	100%	100%	100%	93%	100%
12.5	100%	100%	100%	97%	90%	99%
10.0	100%	100%	100%	96%	88%	97%
5.0	100%	100%	99%	95%	83%	91%
2.5	100%	99%	99%	94%	76%	86%
1.25	99%	98%	98%	91%	72%	82%
0.630	95%	97%	96%	87%	67%	77%
0.315	76%	92%	93%	83%	61%	70%
0.160	49%	67%	88%	80%	56%	62%
0.080	28%	31%	72%	76%	47%	52%
M.C.(%):	7%	11%	19%	39%	10%	11%
LIQUID LIMIT:	0.0	0.0	0.0	0.0	0.0	0.0
PLASTIC LIMIT:	0.0	0.0	0.0	0.0	0.0	0.0
PLASTIC INDEX.:	0.0	0.0	0.0	0.0	0.0	0.0
% GRAVEL:	0	0	1	5	17	9
% SAND:	72	69	27	20	35	39
% FINES:	28	31	72	76	47	52
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND (SM)	SILT WITH SAND (ML)	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)



PROJECT NUMBER:	092-202101-0362-1		HOLE No.: 619-500A
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEG 10		
PROJECT LOCATION:	Km 1692.6-1729.6 A/H		
DRILL UNIT:	MOBILE B40 L		
HOLE LOCATION:	See Testhole Log Sheet		
LOGGED BY:	G.C.		DATE COMP: 2001/09/07

FIELD NO:	1154					
LAB NO:	1931					
DEPTH:	8.5-9.0					
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	97%					
10.0	93%					
5.0	91%					
2.5	85%					
1.25	81%					
0.630	76%					
0.315	69%					
0.160	61%					
0.080	51%					
M.C.(%):	10%					
LIQUID LIMIT:	0.0					
PLASTIC LIMIT:	0.0					
PLASTIC INDEX.:	0.0					
% GRAVEL:	9					
% SAND:	40					
% FINES:	51					
CLASSIFICATION	SANDY SILT (ML)