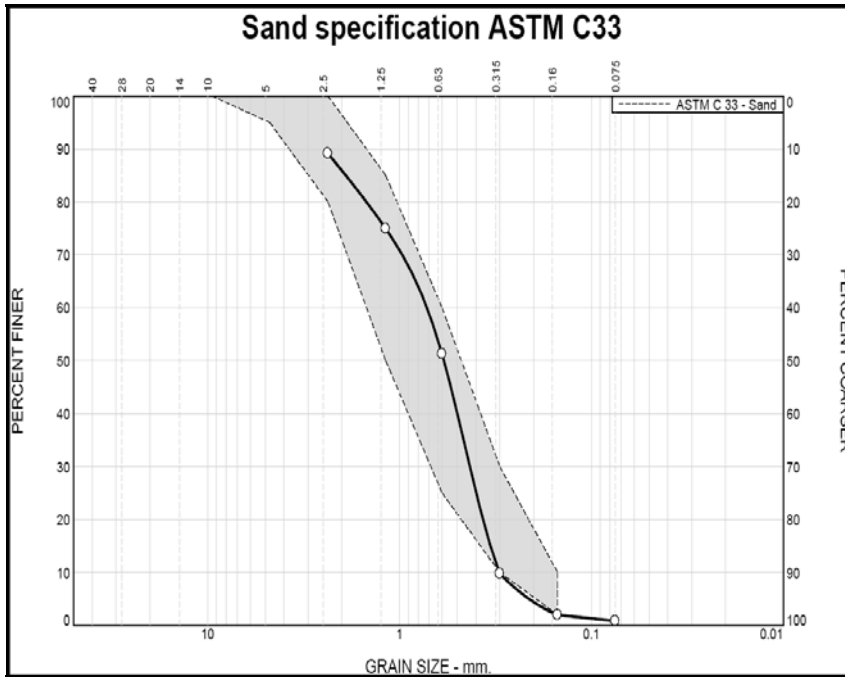


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HOLE NO. N0050

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 31 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	10.9	89.1	80 - 100
No. 16	14.2	74.9	50 - 85
No. 30	23.7	51.3	25 - 60
No. 50	41.5	9.7	10 - 30
No. 100	7.8	2.0	2 - 10
No. 200	1.2	0.8	
Pan	0.8		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 31 feet

Percent Gravel + 1.5 inch	3.2		
Percent Gravel 1.5 to 0.75 inches	4.4		
Percent Gravel 0.75 inch to #4 sieve	17.1		
Total Percent Gravel		24.7	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
3 - 10	19.2	2.8	4.5	11.9	43.2
10 - 15	17.2	6.0	3.5	7.8	37.4
15 - 21	37.2	1.3	4.9	31.0	39.0

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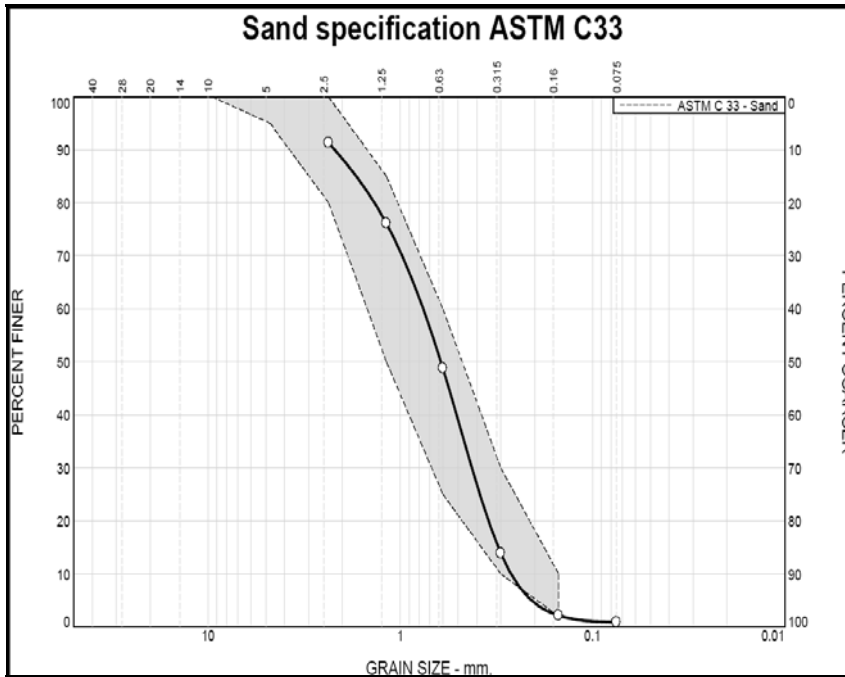
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HOLE NO. N0250

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 55 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	8.7	91.3	80 - 100
No. 16	15.2	76.1	50 - 85
No. 30	27.3	48.8	25 - 60
No. 50	34.9	13.9	10 - 30
No. 100	11.8	2.1	2 - 10
No. 200	1.3	0.9	
Pan	0.9		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 55 feet

Percent Gravel + 1.5 inch	4.4		
Percent Gravel 1.5 to 0.75 inches	3.6		
Percent Gravel 0.75 inch to #4 sieve	12.9		
		Total Percent Gravel	20.9

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

INDIVIDUAL INTERVALS	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
5 - 10	25.1	10.3	1.9	12.8	29.0
10 - 15	23.0	2.9	3.6	16.5	27.6
15 - 20	14.2	0.0	3.6	10.6	32.3
20 - 25	32.0	18.5	4.6	8.9	29.7
25 - 30	8.6	0.0	2.4	6.2	20.0
30 - 35	15.1	0.0	3.1	12.0	22.5
35 - 40	28.4	4.0	6.6	17.8	27.6
40 - 45	16.6	1.5	1.8	13.3	24.2
45 - 50	21.4	1.2	4.2	16.0	22.9
50 - 55	24.7	5.3	4.8	14.5	34.6

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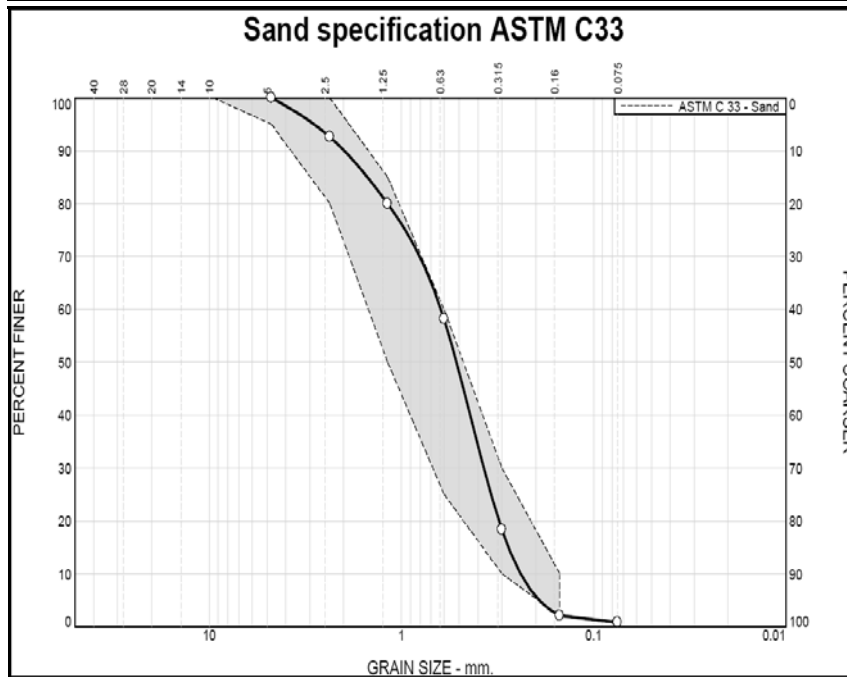
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. N0850

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 6 to 65 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.4	92.6	80 - 100
No. 16	12.6	80.0	50 - 85
No. 30	21.8	58.2	25 - 60
No. 50	39.8	18.3	10 - 30
No. 100	16.3	2.1	2 - 10
No. 200	1.3	0.8	
Pan	0.8		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 6 to 65 feet

Percent Gravel + 1.5 inch	1.6		
Percent Gravel 1.5 to 0.75 inches	4.0		
Percent Gravel 0.75 inch to #4 sieve	15.3		
Total Percent Gravel		20.9	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	Total	PERCENT GRAVEL			Sample Wt. (lbs.)
		+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
6 - 10	18.2	0.0	1.9	16.3	34.8
10 - 15	31.0	0.0	6.4	24.6	32.3
15 - 20	29.0	0.0	2.1	26.9	24.5
20 - 25	20.4	5.3	4.0	11.1	28.0
25 - 30	19.9	0.6	6.1	13.3	31.0
30 - 35	26.4	3.4	4.4	18.6	28.8
35 - 40	22.7	0.7	4.4	17.6	30.6
40 - 45	24.4	6.1	4.5	13.9	25.5
45 - 50	15.2	0.8	7.2	7.2	28.3
50 - 55	3.7	0.0	0.0	3.7	15.4
55 - 60	14.5	2.2	2.5	9.8	23.0
60 - 65	24.6	0.0	3.9	20.6	29.9

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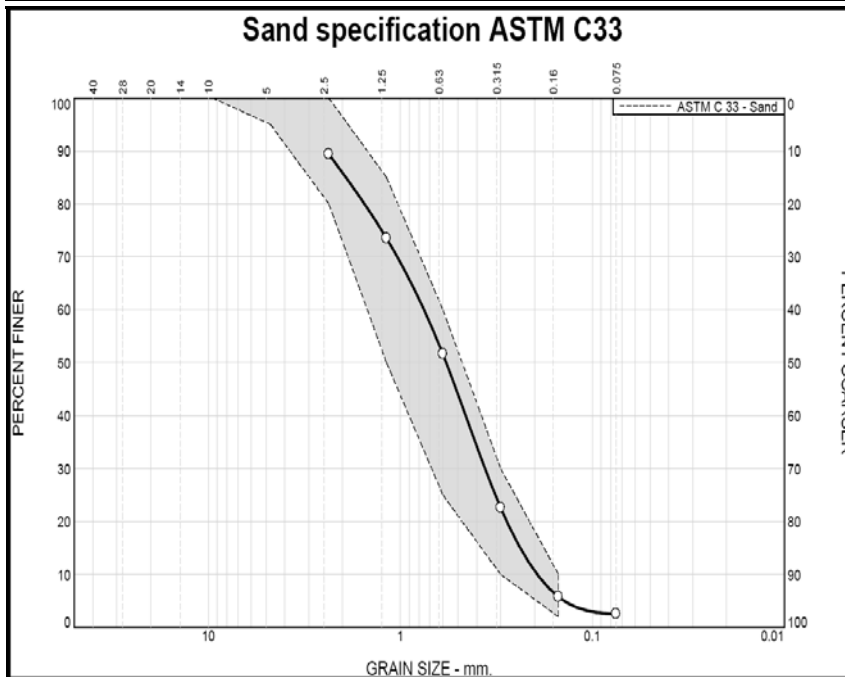
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. N1250

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 59 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	10.6	89.4	80 - 100
No. 16	15.9	73.5	50 - 85
No. 30	21.9	51.6	25 - 60
No. 50	29.0	22.6	10 - 30
No. 100	16.8	5.7	2 - 10
No. 200	3.2	2.5	
Pan	2.5		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 59 feet

Percent Gravel + 1.5 inch	2.7		
Percent Gravel 1.5 to 0.75 inches	4.5		
Percent Gravel 0.75 inch to #4 sieve	13.6		
Total Percent Gravel		20.7	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
4 - 10	28.8	9.7	5.8	13.3	36.4
10 - 20	5.7	0.0	1.1	4.6	27.7
20 - 30	18.3	2.5	4.3	11.5	34.5
30 - 40	18.3	1.0	3.8	13.5	43.6
40 - 50	25.5	3.0	5.0	17.5	37.8
50 - 59	32.0	2.7	7.7	21.6	39.6

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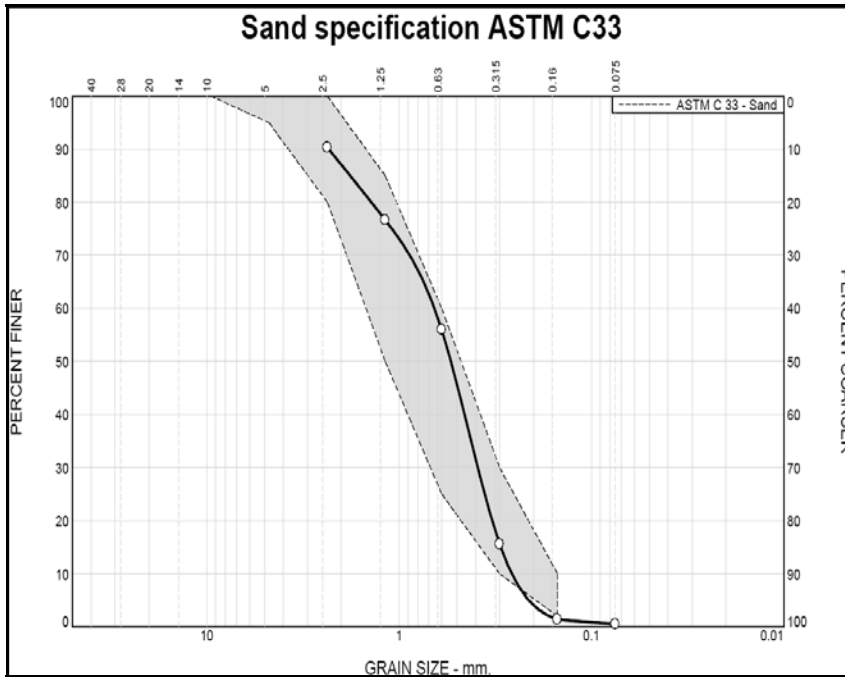
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 55 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	9.7	90.3	80 - 100
No. 16	13.7	76.6	50 - 85
No. 30	20.7	56.0	25 - 60
No. 50	40.4	15.6	10 - 30
No. 100	14.2	1.4	2 - 10
No. 200	0.9	0.5	
Pan	0.5		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 55 feet

Percent Gravel + 1.5 inch	2.4		
Percent Gravel 1.5 to 0.75 inches	4.3		
Percent Gravel 0.75 inch to #4 sieve	13.8		
Total Percent Gravel		20.5	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

INDIVIDUAL INTERVALS	Total	PERCENT GRAVEL			Sample Wt. (lbs.)
		+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
3 - 15	18.6	7.1	5.9	5.6	36.8
15 - 25	8.5	0.0	3.0	5.5	29.5
25 - 30	33.6	2.1	4.8	26.7	37.5
30 - 35	30.8	0.0	4.3	26.5	30.8
35 - 40	30.4	6.3	2.5	21.6	24.3
40 - 45	7.9	0.0	1.0	6.9	17.8
45 - 50	28.2	0.0	8.1	20.2	30.7
50 - 55	20.7	0.0	3.1	17.5	24.8

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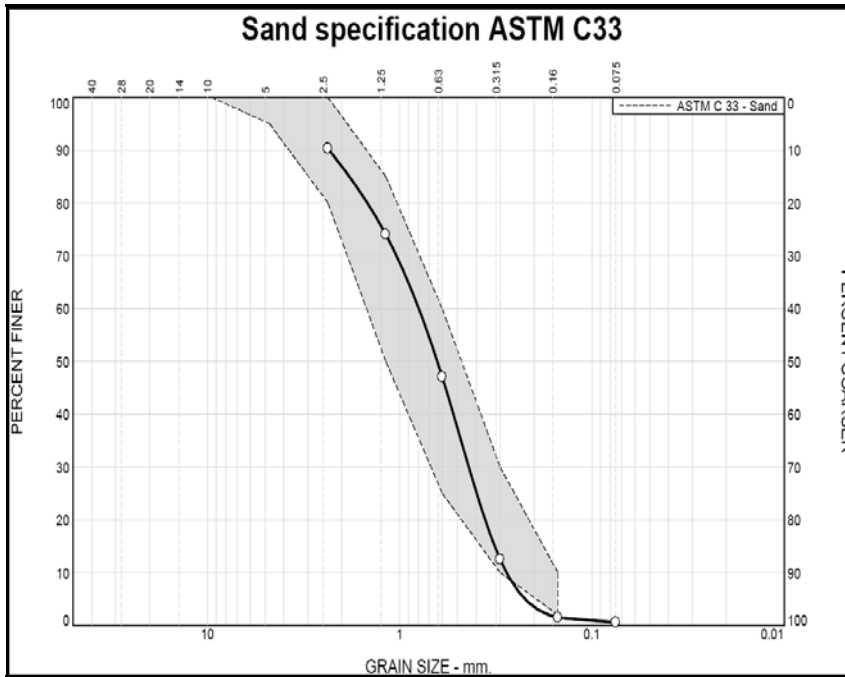
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HOLE NO. N3050

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3.5 to 65 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	9.7	90.3	80 - 100
No. 16	16.3	74.0	50 - 85
No. 30	27.0	47.1	25 - 60
No. 50	34.6	12.5	10 - 30
No. 100	11.0	1.5	2 - 10
No. 200	0.9	0.6	
Pan	0.6		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3.5 to 65 feet

Percent Gravel + 1.5 inch	3.4		
Percent Gravel 1.5 to 0.75 inches	3.8		
Percent Gravel 0.75 inch to #4 sieve	12.9		
Total Percent Gravel		20.1	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
3.5 - 10	18.6	2.6	4.0	12.0	37.9
10 - 15	23.5	14.0	1.6	8.0	24.1
15 - 20	20.8	5.4	4.7	10.7	31.7
20 - 25	28.1	0.0	8.5	19.7	33.3
25 - 30	33.4	10.4	4.3	18.7	37.8
30 - 35	20.4	1.1	4.4	14.9	28.2
35 - 40	18.3	5.5	2.5	10.3	27.8
40 - 45	10.3	1.7	1.5	7.1	30.5
45 - 50	15.8	0.0	4.1	11.7	26.0
50 - 55	14.3	0.0	4.1	10.2	25.4
55 - 60	18.1	0.7	3.3	14.1	28.5
60 - 65	19.8	0.0	2.4	17.4	24.6

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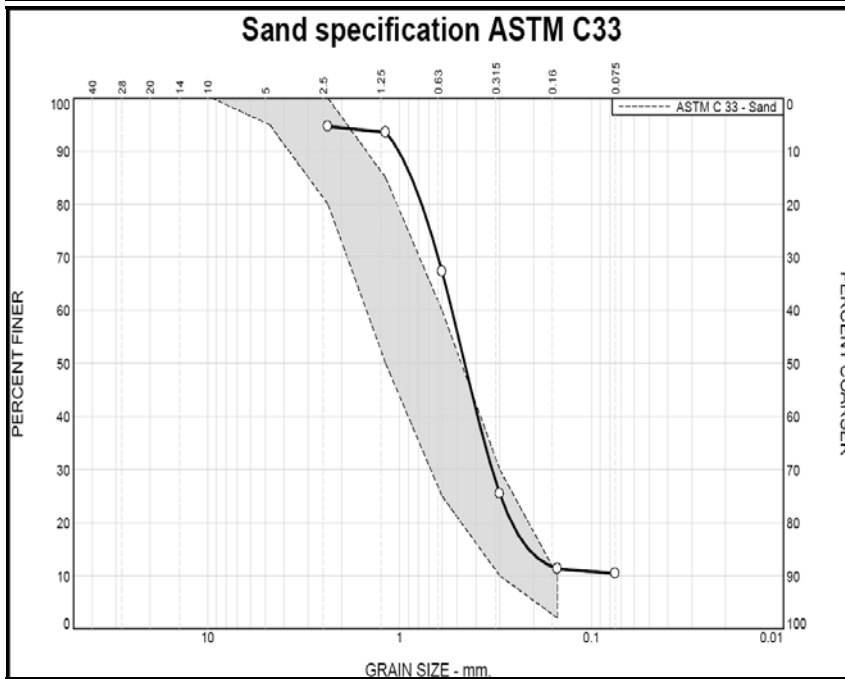
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HOLE NO. NN0250

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 1 to 30 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	5.3	94.7	80 - 100
No. 16	11.1	83.6	50 - 85
No. 30	26.2	57.4	25 - 60
No. 50	41.9	15.5	10 - 30
No. 100	14.1	1.4	2 - 10
No. 200	0.9	0.5	
Pan	0.5		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 1 to 30 feet

Percent Gravel + 1.5 inch	3.5		
Percent Gravel 1.5 to 0.75 inches	2.8		
Percent Gravel 0.75 inch to #4 sieve	8.0		
Total Percent Gravel		14.4	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)	
	Total	+ 1.5 inch	1.5 to 0.75 inch		0.75 inch to #4
1 - 15	15.0	3.1	2.9	9.0	44.6
15 - 25	13.5	2.1	3.4	8.0	32.5
25 - 30	14.2	7.6	1.6	5.1	29.1

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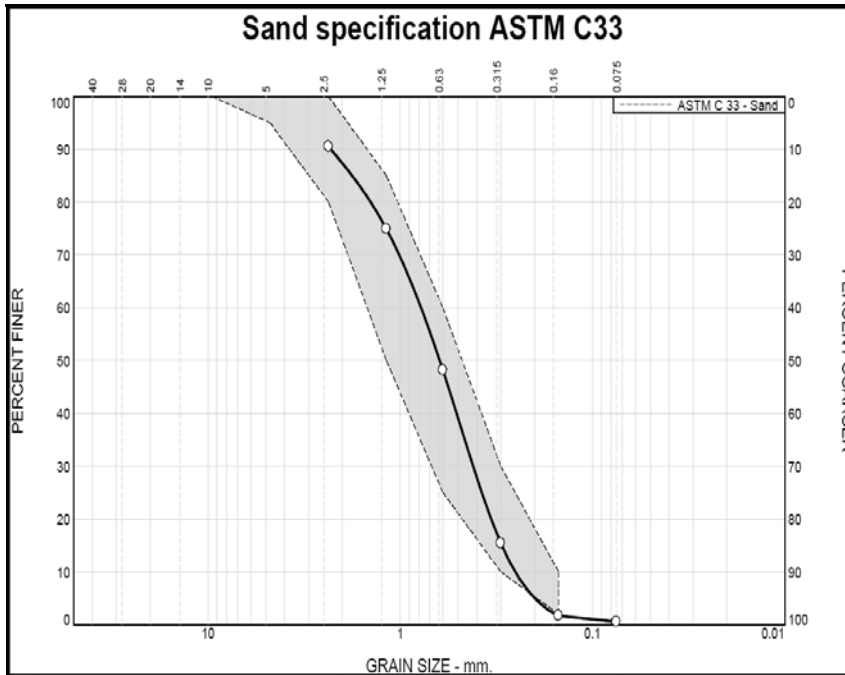
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HOLE NO. NN0450

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 40 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	9.5	90.5	80 - 100
No. 16	15.6	74.9	50 - 85
No. 30	26.7	48.2	25 - 60
No. 50	32.8	15.4	10 - 30
No. 100	13.7	1.7	2 - 10
No. 200	1.1	0.5	
Pan	0.5		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 40 feet

Percent Gravel + 1.5 inch	5.5		
Percent Gravel 1.5 to 0.75 inches	5.3		
Percent Gravel 0.75 inch to #4 sieve	12.7		
Total Percent Gravel		23.5	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
5 - 10	10.5	2.9	3.5	4.1	26.2
10 - 15	27.3	8.5	8.4	10.5	29.9
15 - 20	25.1	8.1	7.0	10.0	33.0
20 - 25	19.7	6.2	5.1	8.5	31.2
25 - 30	23.7	0.8	6.1	16.9	32.0
30 - 35	28.3	10.0	3.6	14.7	33.0
35 - 40	29.6	2.3	3.2	24.1	48.6

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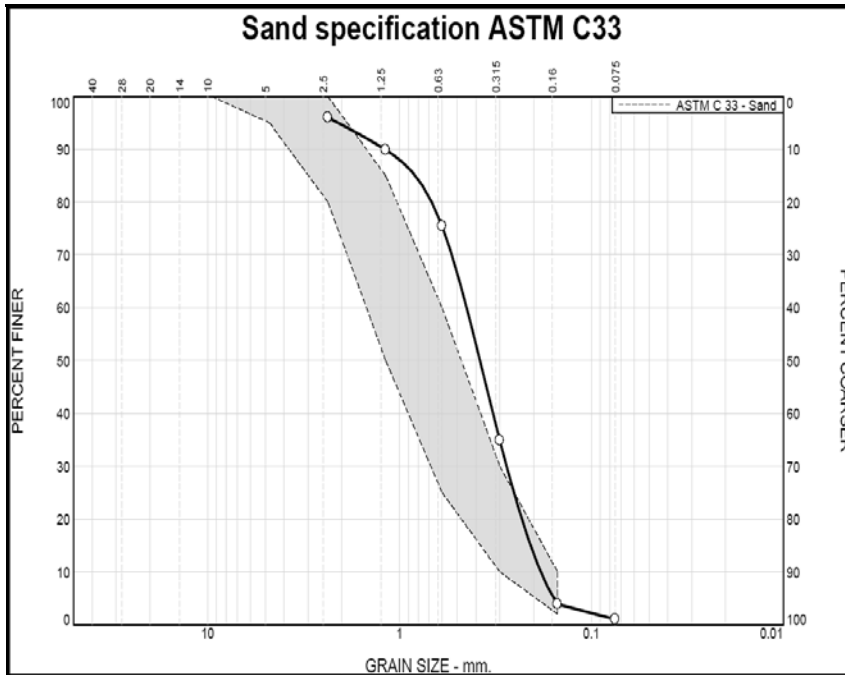
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HOLE NO. NN0650

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3.5 to 34 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	4.0	96.0	80 - 100
No. 16	6.1	89.9	50 - 85
No. 30	14.4	75.5	25 - 60
No. 50	40.6	34.9	10 - 30
No. 100	31.0	3.9	2 - 10
No. 200	2.9	1.0	
Pan	1.0		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3.5 to 34 feet

Percent Gravel + 1.5 inch	1.8		
Percent Gravel 1.5 to 0.75 inches	2.8	Total Percent Gravel	11.9
Percent Gravel 0.75 inch to #4 sieve	7.3		

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Individual Intervals	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
3.5 - 15	3.2	0.0	1.3	1.9	31.9
15 - 25	9.3	1.7	3.5	4.1	31.0
25 - 34	25.9	4.3	3.9	17.7	49.1

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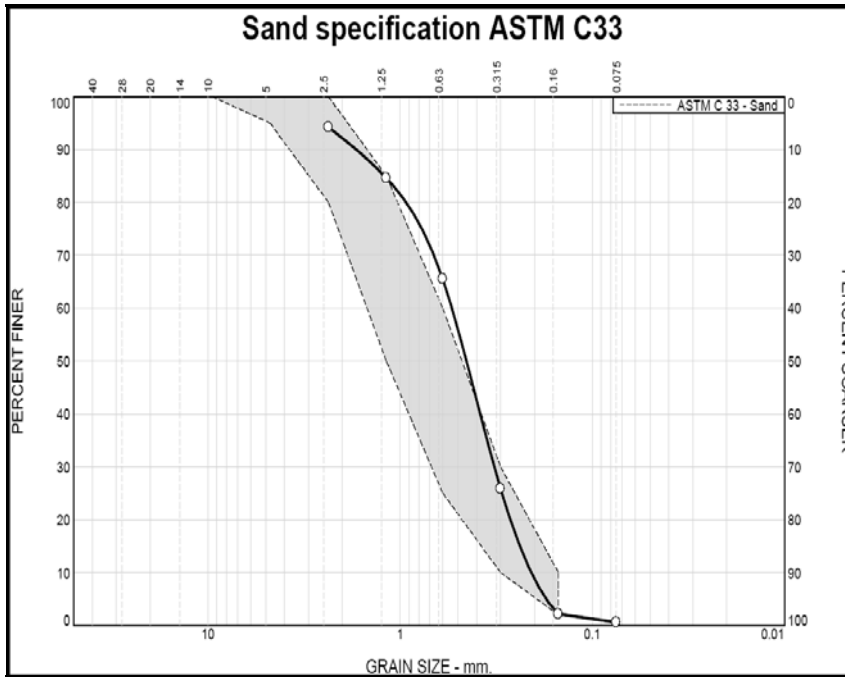
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LABORATORY TEST DATA SUMMARY SHEET

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 43 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	5.8	94.2	80 - 100
No. 16	9.6	84.6	50 - 85
No. 30	19.1	65.5	25 - 60
No. 50	39.7	25.8	10 - 30
No. 100	23.7	2.2	2 - 10
No. 200	1.6	0.6	
Pan	0.6		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 43 feet

Percent Gravel + 1.5 inch	1.0		
Percent Gravel 1.5 to 0.75 inches	2.4	Total Percent Gravel	11.9
Percent Gravel 0.75 inch to #4 sieve	8.5		

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
3 - 15	11.0	1.4	2.3	7.3	35.9
15 - 25	7.6	1.1	1.4	5.1	30.2
25 - 30	19.9	0.0	2.1	17.8	29.9
30 - 35	10.2	0.0	0.9	9.3	27.6
35 - 40	12.2	0.0	4.2	8.0	40.6
40 - 43	19.1	4.6	5.6	8.9	20.3

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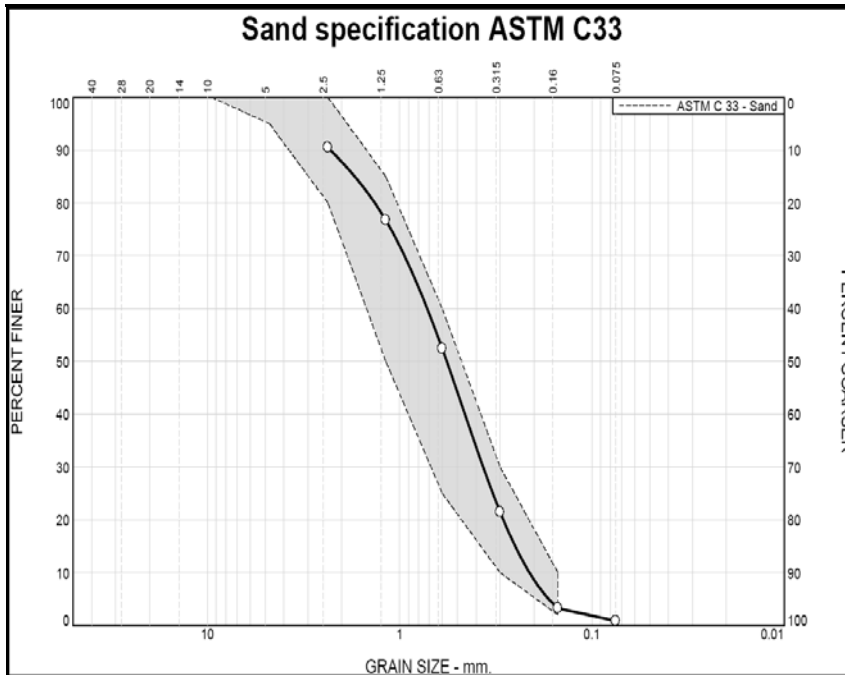
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. NN1450

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 6 to 52 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	9.5	90.5	80 - 100
No. 16	13.8	76.8	50 - 85
No. 30	24.3	52.4	25 - 60
No. 50	31.0	21.5	10 - 30
No. 100	18.2	3.3	2 - 10
No. 200	2.4	0.8	
Pan	0.8		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 6 to 52 feet

Percent Gravel + 1.5 inch	2.4		
Percent Gravel 1.5 to 0.75 inches	4.4		
Percent Gravel 0.75 inch to #4 sieve	12.0		
Total Percent Gravel		18.7	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
6 - 15	16.7	1.0	7.9	40.1
15 - 25	7.9	0.0	1.9	32.1
25 - 30	32.9	2.2	5.1	36.4
30 - 35	30.4	0.0	9.2	33.3
35 - 40	33.6	1.6	7.6	31.4
40 - 45	26.5	6.6	4.5	30.4
45 - 52	23.6	8.2	7.1	53.6

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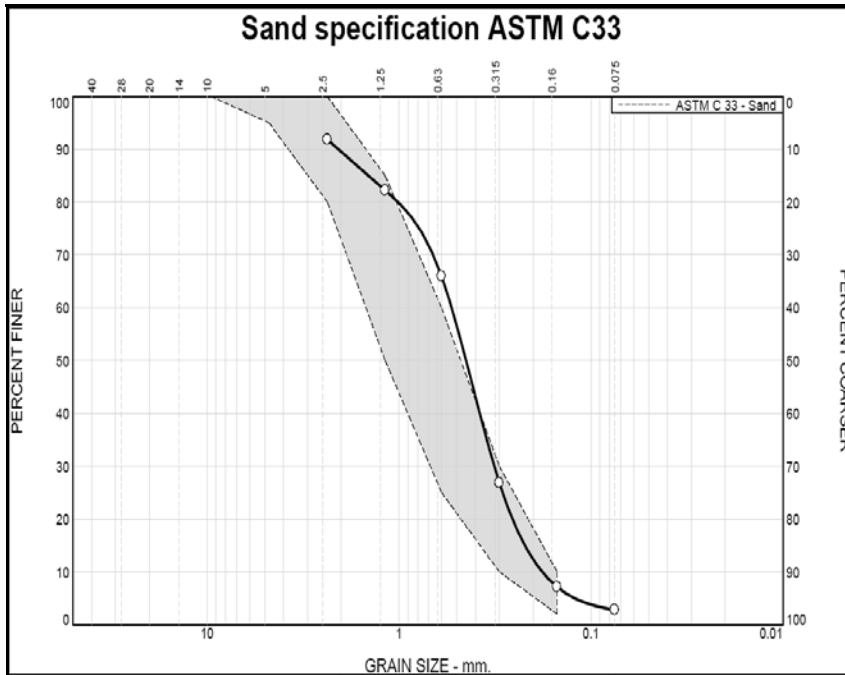
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HOLE NO. NN1850

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 5.5 to 69.5 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	8.2	91.8	80 - 100
No. 16	9.6	82.2	50 - 85
No. 30	16.3	66.0	25 - 60
No. 50	39.1	26.8	10 - 30
No. 100	19.7	7.1	2 - 10
No. 200	4.4	2.8	
Pan	2.8		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5.5 to 69.5 feet

Percent Gravel + 1.5 inch	3.0		
Percent Gravel 1.5 to 0.75 inches	3.9		
Percent Gravel 0.75 inch to #4 sieve	10.3		
Total Percent Gravel		17.2	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Individual Intervals	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
5.5 - 10	16.8	1.6	2.6	12.7	36.2
10 - 20	14.6	1.3	4.1	9.2	24.8
20 - 30	12.8	1.7	2.4	8.7	40.6
30 - 40	25.7	1.8	7.5	16.3	39.5
40 - 55	1.7	0.0	0.5	1.2	32.9
55 - 60	37.6	14.7	6.3	16.7	37.1
60 - 70	29.2	6.6	6.2	16.4	55.1

ProSource

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Geological Assessment, UMore Park

Prepared for the Board of Regents
of the University of Minnesota

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