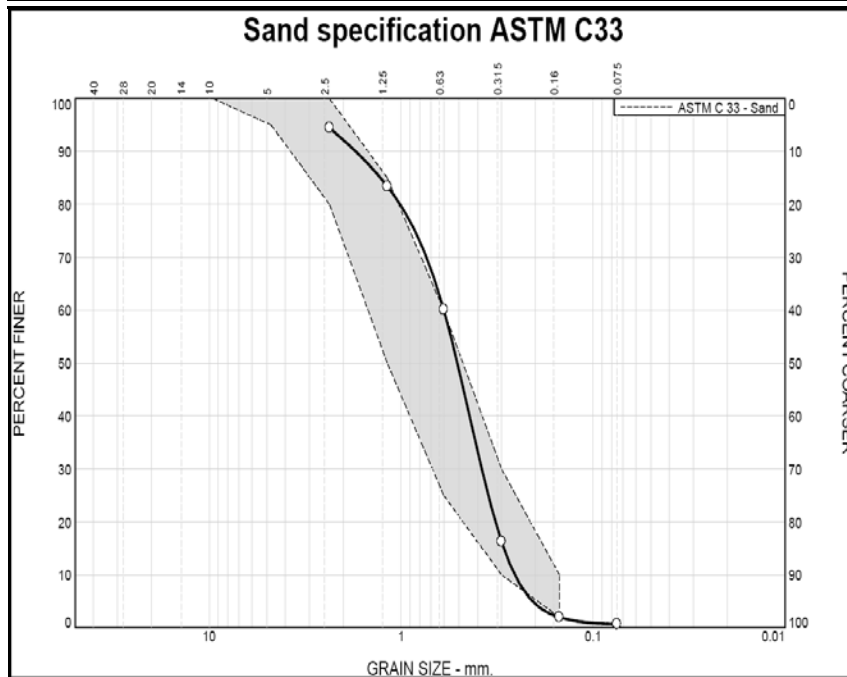


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HOLE NO. F0450

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 42 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	5.5	94.5	80 - 100
No. 16	11.1	83.4	50 - 85
No. 30	23.3	60.1	25 - 60
No. 50	43.9	16.2	10 - 30
No. 100	14.3	2.0	2 - 10
No. 200	1.3	0.7	
Pan	0.7		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 42 feet

Percent Gravel + 1.5 inch	4.6		
Percent Gravel 1.5 to 0.75 inches	5.3		
Percent Gravel 0.75 inch to #4 sieve	12.1		
Total Percent Gravel		22.1	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
4 - 10	20.7	2.4	5.4	42.6
10 - 15	15.4	3.1	5.6	29.5
15 - 20	28.4	10.5	7.4	32.1
20 - 25	25.9	9.0	5.6	30.3
25 - 30	20.7	0.7	6.9	35.6
30 - 35	26.5	6.8	5.3	38.8
35 - 42	18.6	1.7	2.1	31.1

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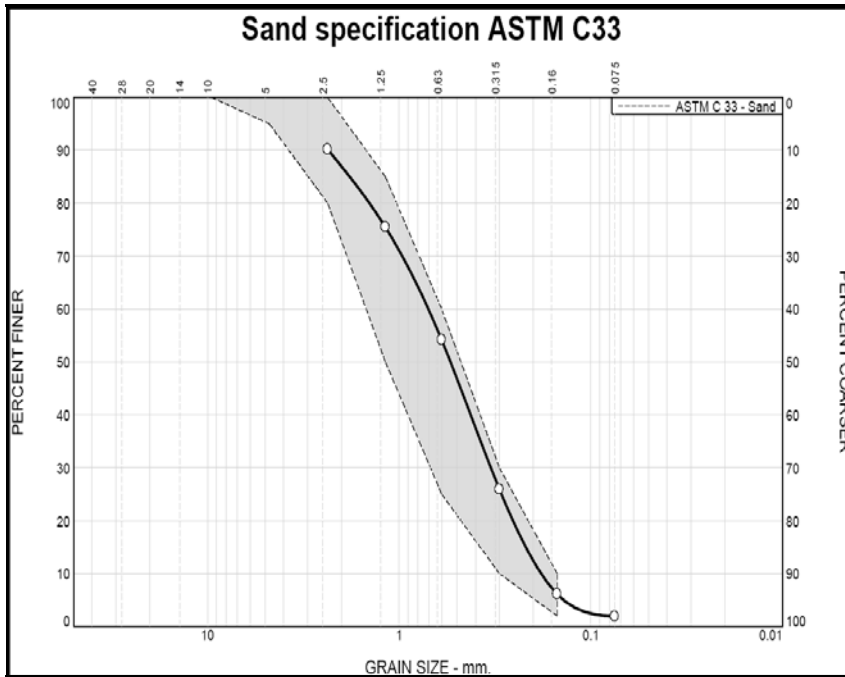
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 45 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	9.8	90.2	80 - 100
No. 16	14.7	75.5	50 - 85
No. 30	21.3	54.2	25 - 60
No. 50	28.2	25.9	10 - 30
No. 100	19.8	6.1	2 - 10
No. 200	4.2	1.9	
Pan	1.9		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 45 feet

Percent Gravel + 1.5 inch	1.5	
Percent Gravel 1.5 to 0.75 inches	3.8	
Percent Gravel 0.75 inch to #4 sieve	19.7	
Total Percent Gravel		25.0

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	31.7	0.0	2.6	29.1	51.5
10 - 15	34.3	0.0	1.6	32.7	30.0
15 - 20	11.5	0.0	2.6	8.9	27.3
20 - 25	2.1	0.0	0.0	2.1	18.1
25 - 30	39.1	1.2	8.4	29.6	32.7
30 - 35	33.9	0.0	6.3	27.6	26.7
35 - 40	22.0	7.2	3.9	11.0	26.6
40 - 45	22.3	4.0	5.4	12.9	20.7

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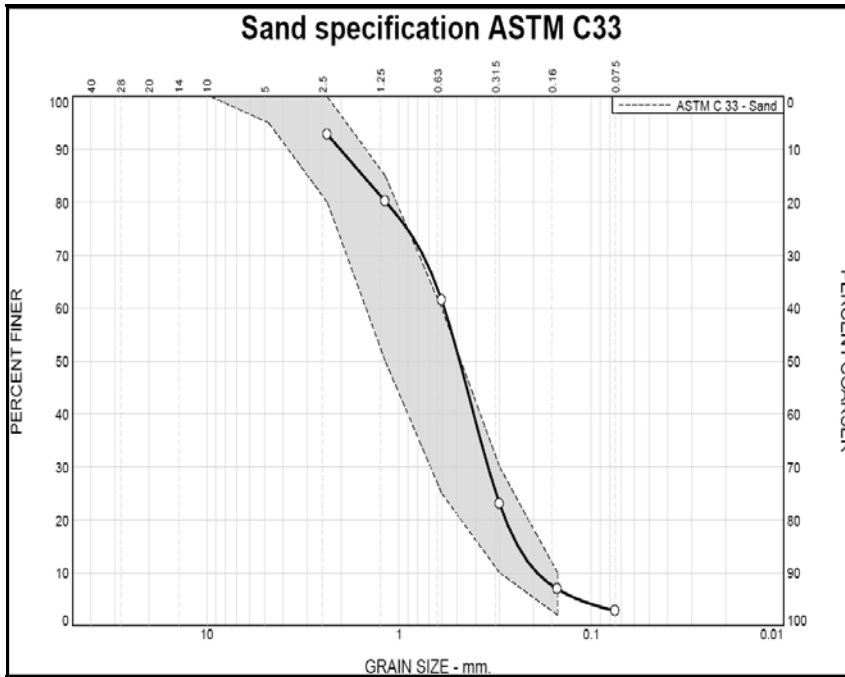
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HOLE NO. F0750

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 7.5 to 55 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.2	92.8	80 - 100
No. 16	12.6	80.2	50 - 85
No. 30	18.7	61.5	25 - 60
No. 50	38.5	23.0	10 - 30
No. 100	16.1	6.9	2 - 10
No. 200	4.2	2.8	
Pan	2.8		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 7.5 to 55 feet

Percent Gravel + 1.5 inch	1.3		
Percent Gravel 1.5 to 0.75 inches	5.3		
Percent Gravel 0.75 inch to #4 sieve	15.4		
Total Percent Gravel		22.0	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Individual Intervals	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
7.5 - 12	16.9	0.0	4.1	29.8
12 - 20	8.6	0.0	2.4	37.5
20 - 40	20.0	1.0	5.7	46.3
40 - 45	36.9	4.0	8.4	27.4
45 - 50	42.7	4.1	7.4	47.9
50 - 55	20.2	0.0	4.1	32.6

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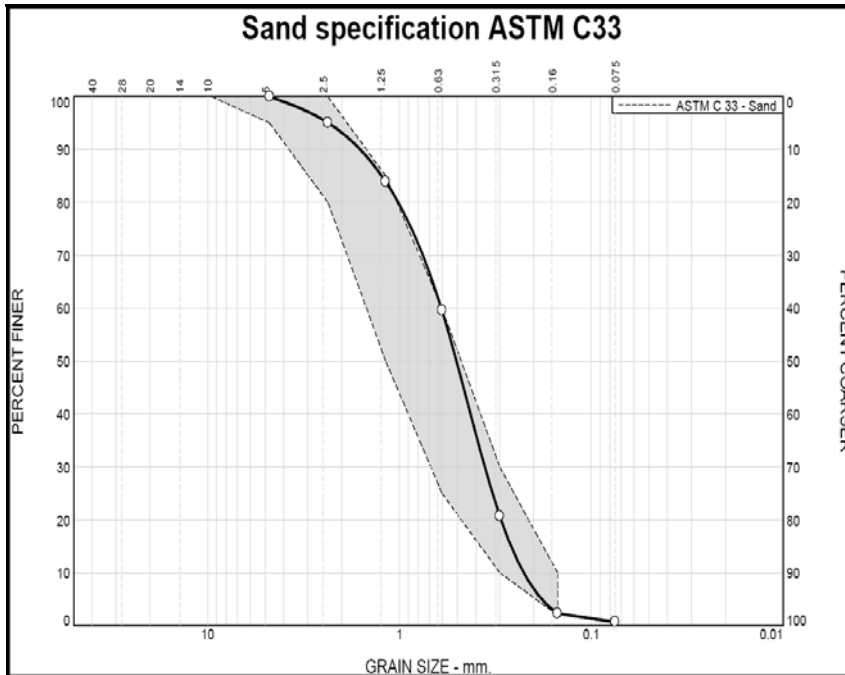
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 2.5 to 45 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	4.9	95.1	80 - 100
No. 16	11.1	83.9	50 - 85
No. 30	24.3	59.6	25 - 60
No. 50	38.9	20.7	10 - 30
No. 100	18.4	2.3	2 - 10
No. 200	1.6	0.7	
Pan	0.7		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 2.5 to 45 feet

Percent Gravel + 1.5 inch	2.9		
Percent Gravel 1.5 to 0.75 inches	3.6		
Percent Gravel 0.75 inch to #4 sieve	7.2		
Total Percent Gravel		13.7	

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	
2.5 - 20	9.6	1.3	3.0	5.3	30.8
20 - 25	20.5	4.1	5.0	11.4	31.2
25 - 30	20.0	6.4	5.4	8.2	26.8
30 - 35	14.8	3.0	3.4	8.4	31.8
35 - 40	16.9	6.9	2.2	7.8	26.5
40 - 45	10.8	0.0	3.9	7.0	28.6

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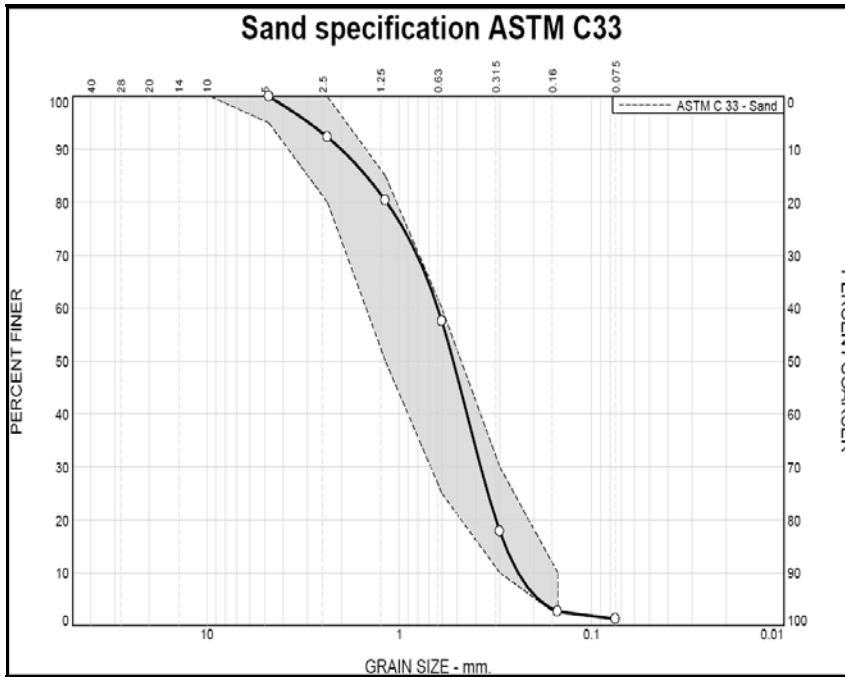
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 13 to 65 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.7	92.3	80 - 100
No. 16	12.0	80.3	50 - 85
No. 30	22.8	57.5	25 - 60
No. 50	39.7	17.8	10 - 30
No. 100	15.2	2.7	2 - 10
No. 200	1.4	1.3	
Pan	1.3		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 13 to 65 feet

Percent Gravel + 1.5 inch	3.2		
Percent Gravel 1.5 to 0.75 inches	3.9		
Percent Gravel 0.75 inch to #4 sieve	13.0		
		Total Percent Gravel	20.1

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	
13 - 20	26.9	7.5	6.2	13.3	27.9
20 - 25	5.9	0.0	1.2	4.7	15.1
25 - 30	23.7	0.0	4.7	19.0	21.6
30 - 35	29.8	11.6	2.8	15.4	23.6
35 - 45	23.6	5.0	6.2	12.4	38.8
45 - 50	8.9	0.0	1.3	7.6	20.4
50 - 55	12.5	0.0	0.9	11.5	22.7
55 - 60	17.6	0.0	1.5	16.1	30.9
60 - 65	25.7	0.8	6.8	18.1	36.0

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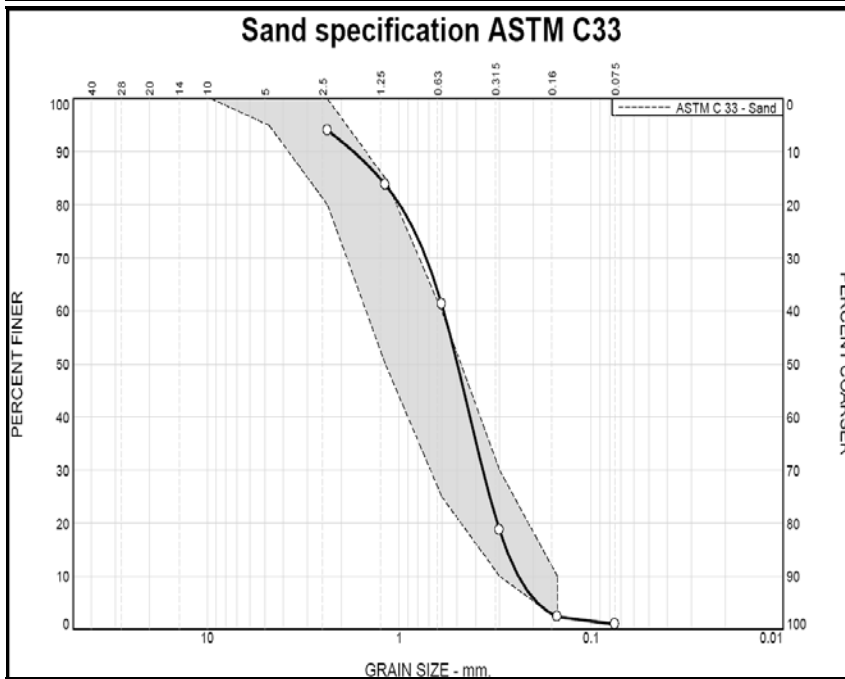
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 64 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	5.9	94.1	80 - 100
No. 16	10.3	83.8	50 - 85
No. 30	22.5	61.3	25 - 60
No. 50	42.6	18.7	10 - 30
No. 100	16.4	2.3	2 - 10
No. 200	1.4	0.9	
Pan	0.9		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 64 feet

Percent Gravel + 1.5 inch	5.4		
Percent Gravel 1.5 to 0.75 inches	3.8		
Percent Gravel 0.75 inch to #4 sieve	7.5		
Total Percent Gravel		16.7	

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	
4 - 20	11.5	2.4	2.9	6.2	37.6
20 - 25	16.7	6.4	3.1	7.2	29.0
25 - 30	14.0	2.2	3.4	8.4	31.4
30 - 35	9.9	2.9	1.7	5.3	26.3
35 - 40	11.4	6.5	1.0	3.9	30.2
40 - 45	10.4	3.4	3.8	3.1	23.8
45 - 50	21.1	3.2	7.5	10.4	26.8
50 - 55	28.5	8.1	7.6	12.8	32.3
55 - 60	32.5	15.4	5.8	11.4	41.0
60 - 64	24.5	11.6	3.6	9.3	27.1

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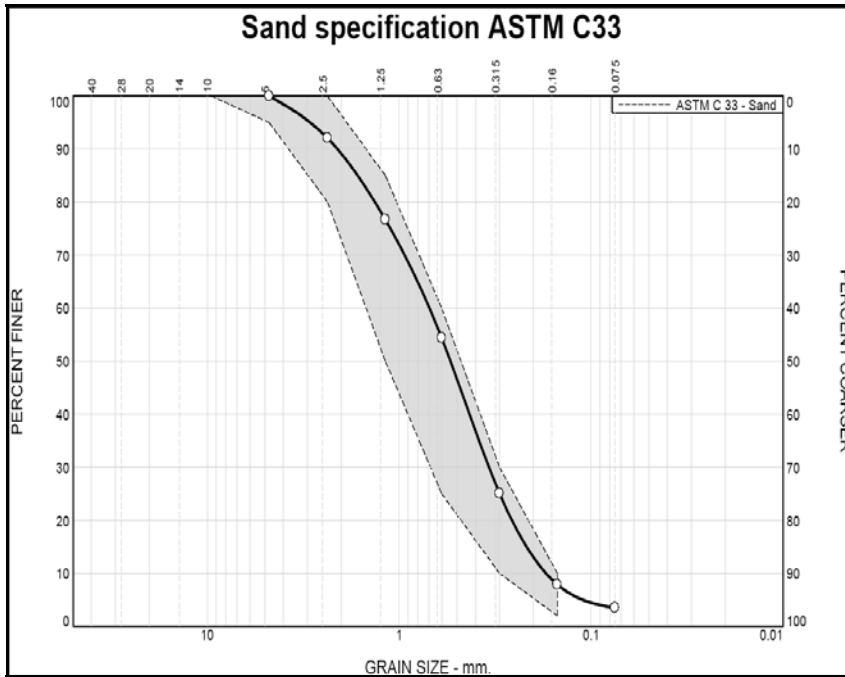
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HOLE NO. F1850

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 5.5 to 115 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.9	92.1	80 - 100
No. 16	15.4	76.7	50 - 85
No. 30	22.3	54.4	25 - 60
No. 50	29.3	25.1	10 - 30
No. 100	17.2	7.9	2 - 10
No. 200	4.4	3.5	
Pan	3.5		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5.5 to 115 feet

Percent Gravel + 1.5 inch	4.3		
Percent Gravel 1.5 to 0.75 inches	5.0		
Percent Gravel 0.75 inch to #4 sieve	13.3		
Total Percent Gravel		22.6	

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	19.4	3.0	4.3	12.0	20.8
10 - 15	8.1	1.6	1.6	5.0	28.4
15 - 20	8.8	0.0	3.0	5.8	26.4
20 - 25	9.8	0.0	2.2	7.6	25.3
25 - 30	22.7	2.4	7.8	12.5	22.0
30 - 35	8.7	1.0	1.8	5.9	17.7
35 - 40	8.7	0.0	0.8	7.8	17.7
40 - 45	37.6	1.8	7.5	28.3	39.7
45 - 50	24.5	2.1	6.0	16.4	30.5
50 - 55	24.3	3.5	6.9	13.9	29.1
55 - 60	32.1	1.2	6.4	24.5	47.4
60 - 70	11.6	0.0	1.0	10.5	28.9
70 - 75	9.2	0.0	1.4	7.8	30.9
75 - 80	15.3	0.0	1.0	14.3	31.1
80 - 85	20.1	2.7	2.9	14.5	29.3
85 - 90	27.9	9.7	4.8	13.4	23.3
90 - 95	6.6	0.0	0.1	6.5	26.7
95 - 100	30.0	12.4	6.8	10.7	48.6
100 - 105	65.7	24.5	18.1	23.2	56.1
105 - 110	59.7	19.4	16.0	24.3	52.3

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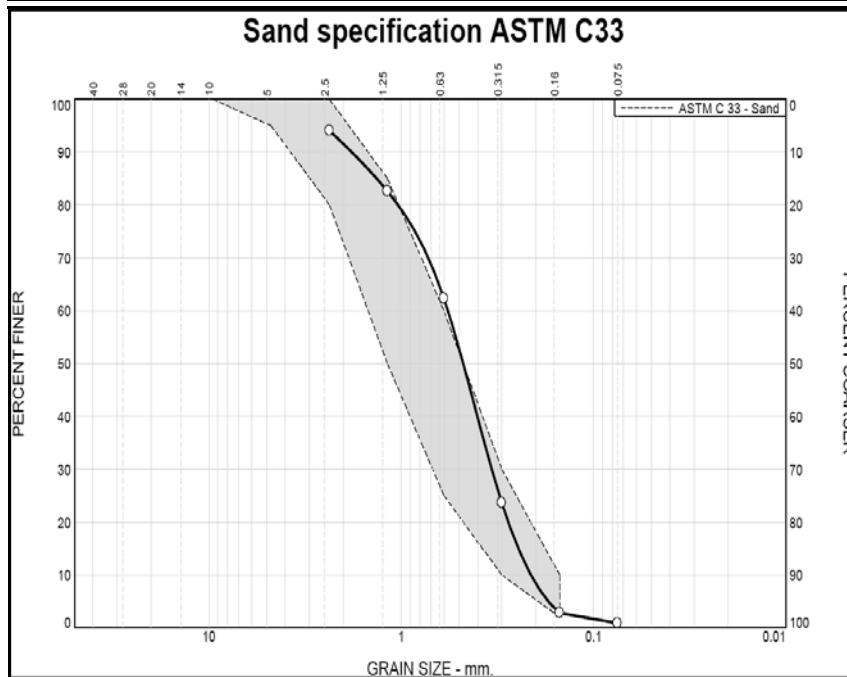
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HOLE NO. F2150

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 4.5 to 60 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	5.9	94.1	80 - 100
No. 16	11.5	82.6	50 - 85
No. 30	20.3	62.3	25 - 60
No. 50	38.7	23.6	10 - 30
No. 100	20.8	2.8	2 - 10
No. 200	1.9	0.9	
Pan	0.9		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4.5 to 60 feet

Percent Gravel + 1.5 inch	3.2		
Percent Gravel 1.5 to 0.75 inches	3.0		
Percent Gravel 0.75 inch to #4 sieve	9.9		
Total Percent Gravel		16.1	

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	
4.5 - 15	10.1	1.5	1.9	6.7	29.8
15 - 25	10.7	1.8	2.1	6.8	29.6
25 - 30	21.7	8.9	4.3	8.4	34.1
30 - 35	23.0	2.9	3.7	16.4	36.0
35 - 40	14.5	3.0	2.5	9.0	30.7
40 - 45	10.7	4.8	1.3	4.7	21.8
45 - 50	21.5	2.9	5.0	13.6	37.9
50 - 55	20.7	0.0	3.5	17.2	38.2
55 - 60	24.6	6.6	4.6	13.4	37.3

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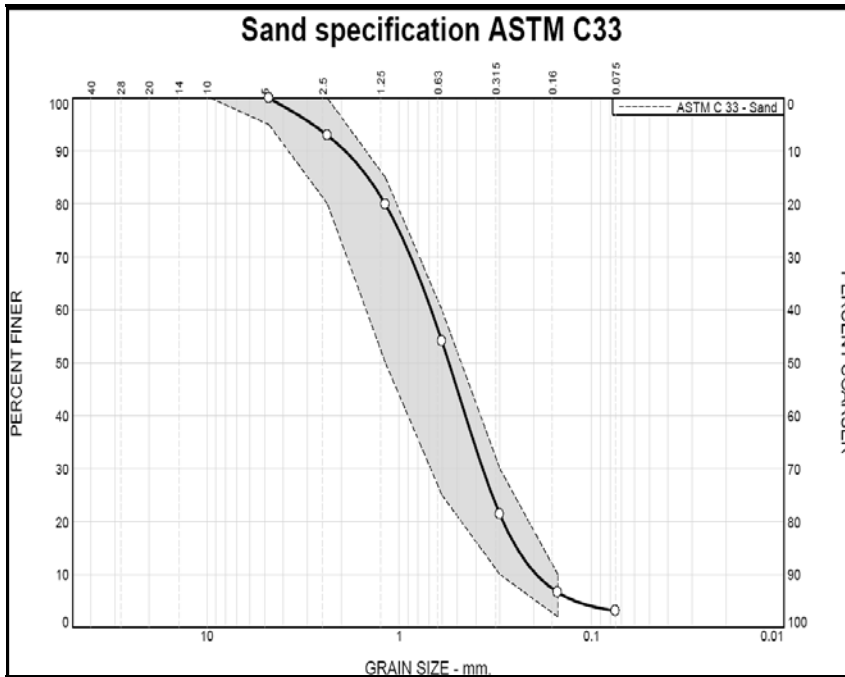
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. F2400

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 6 to 35 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.0	93.0	80 - 100
No. 16	13.0	79.9	50 - 85
No. 30	25.9	54.1	25 - 60
No. 50	32.7	21.3	10 - 30
No. 100	14.7	6.6	2 - 10
No. 200	3.5	3.1	
Pan	3.1		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 6 to 35 feet

Percent Gravel + 1.5 inch	4.5		
Percent Gravel 1.5 to 0.75 inches	5.5	Total Percent Gravel	21.5
Percent Gravel 0.75 inch to #4 sieve	11.5		

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
6 - 10	17.3	2.4	5.0	10.0	24.6
10 - 15	23.7	4.5	5.7	13.5	41.4
15 - 20	18.0	2.6	5.2	10.2	40.8
20 - 25	28.4	8.2	7.1	13.0	40.5
25 - 30	18.2	2.7	4.6	11.0	26.3
30 - 36	22.6	5.9	5.5	11.2	24.1

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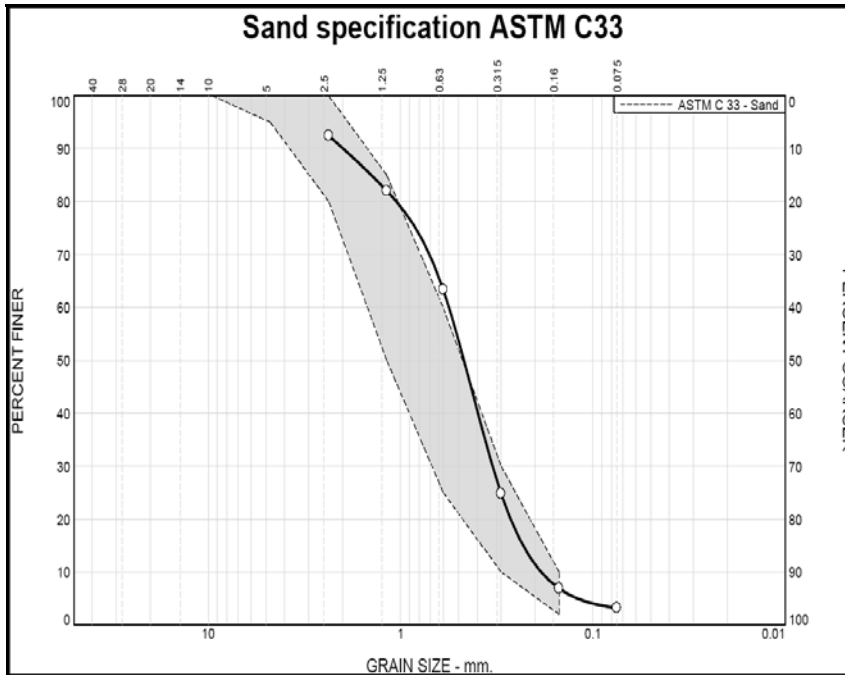
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. F2650

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 9 to 64 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.6	92.4	80 - 100
No. 16	10.4	82.0	50 - 85
No. 30	18.7	63.4	25 - 60
No. 50	38.6	24.8	10 - 30
No. 100	17.9	6.9	2 - 10
No. 200	3.7	3.2	
Pan	3.2		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 9 to 64 feet

Percent Gravel + 1.5 inch	3.3		
Percent Gravel 1.5 to 0.75 inches	5.4	Total Percent Gravel	20.8
Percent Gravel 0.75 inch to #4 sieve	12.1		

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 - 10	12.6	1.7	3.8	7.2	44.3
10 - 20	13.3	0.5	3.1	9.7	42.3
20 - 30	17.1	1.7	5.3	10.1	44.7
30 - 40	12.4	0.0	3.5	8.9	42.6
40 - 45	18.7	0.0	3.0	15.7	36.0
45 - 50	38.8	13.6	7.8	17.3	48.9
50 - 56	50.0	12.0	14.5	23.5	42.3

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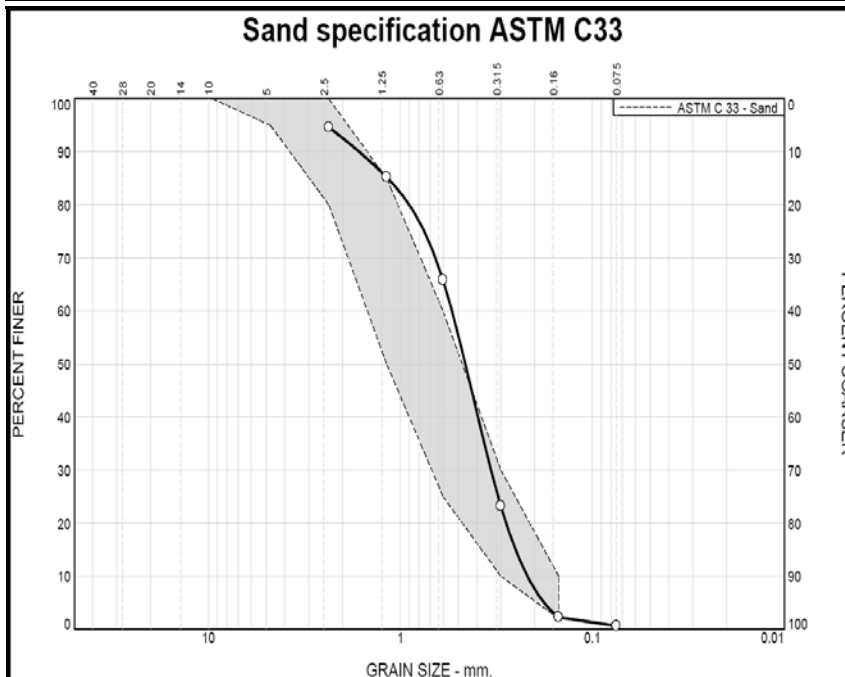
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 1 to 40 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	5.3	94.7	80 - 100
No. 16	9.4	85.2	50 - 85
No. 30	19.4	65.8	25 - 60
No. 50	42.6	23.2	10 - 30
No. 100	21.0	2.2	2 - 10
No. 200	1.7	0.6	
Pan	0.6		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 1 to 40 feet

Percent Gravel + 1.5 inch	2.2		
Percent Gravel 1.5 to 0.75 inches	4.3		
Percent Gravel 0.75 inch to #4 sieve	8.4		
		Total Percent Gravel	14.9

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	
1 - 10	13.4	1.8	4.6	7.1	26.6
10 - 15	14.8	4.3	3.2	7.4	24.6
15 - 20	19.2	2.4	7.2	9.6	29.6
20 - 25	21.3	4.2	7.1	9.9	36.0
25 - 35	9.5	0.0	2.1	7.5	29.2
35 - 40	17.7	3.1	3.4	11.1	34.7

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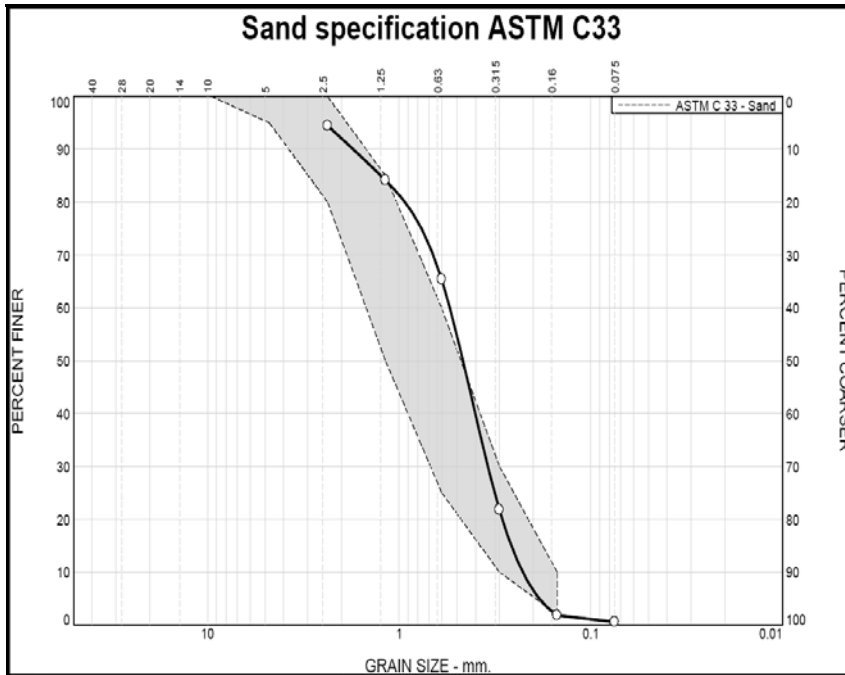
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. F3150

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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	5.5	94.5	80 - 100
No. 16	10.3	84.1	50 - 85
No. 30	18.8	65.4	25 - 60
No. 50	43.6	21.8	10 - 30
No. 100	20.0	1.8	2 - 10
No. 200	1.3	0.5	
Pan	0.5		

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

Percent Gravel + 1.5 inch	4.7		
Percent Gravel 1.5 to 0.75 inches	5.8		
Percent Gravel 0.75 inch to #4 sieve	8.1		
Total Percent Gravel		18.6	

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	21.4	2.7	8.0	10.7	30.4
10 - 15	10.0	0.0	3.2	6.8	24.8
15 - 20	21.1	10.6	2.8	7.7	29.6
20 - 25	21.6	3.4	7.4	10.9	30.8
25 - 30	21.2	9.2	4.7	7.3	31.7
30 - 35	13.7	1.3	5.7	6.7	25.5
35 - 40	21.1	5.4	9.0	6.7	28.9

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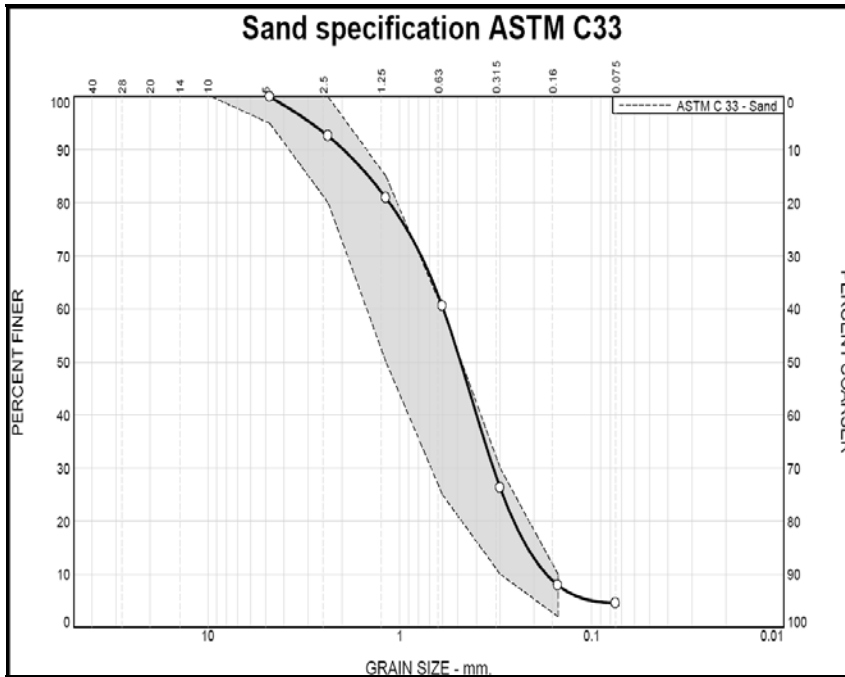
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. F3350

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 66 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	11.7	80.9	50 - 85
No. 30	20.4	60.5	25 - 60
No. 50	34.3	26.2	10 - 30
No. 100	18.4	7.9	2 - 10
No. 200	3.4	4.5	
Pan	4.5		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 66 feet

Percent Gravel + 1.5 inch	1.9		
Percent Gravel 1.5 to 0.75 inches	4.1	Total Percent Gravel	17.8
Percent Gravel 0.75 inch to #4 sieve	11.8		

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 - 10	14.9	0.0	1.0	13.8	42.5
10 - 20	7.9	0.0	1.7	6.2	38.5
20 - 30	10.3	0.0	1.8	8.5	42.1
30 - 40	10.8	0.0	3.1	7.6	39.0
40 - 50	47.4	11.5	13.6	22.3	55.9
50 - 60	16.4	0.6	4.2	11.6	54.2
60 - 66	15.4	0.0	1.3	14.1	23.2

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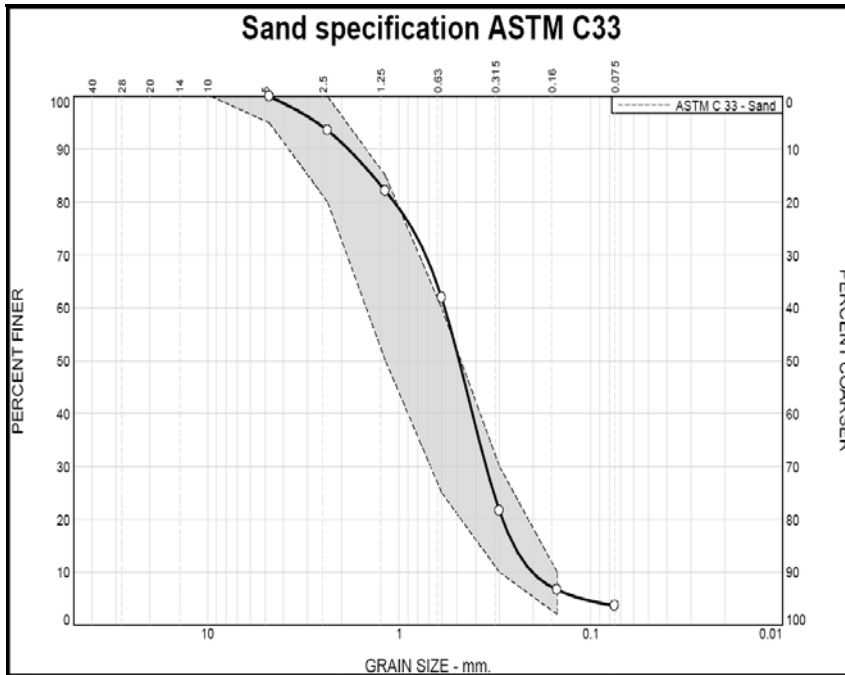
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HOLE NO. F3550

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 92 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	6.4	93.6	80 - 100
No. 16	11.4	82.1	50 - 85
No. 30	20.2	61.9	25 - 60
No. 50	40.3	21.6	10 - 30
No. 100	14.9	6.6	2 - 10
No. 200	3.0	3.6	
Pan	3.6		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 92 feet

Percent Gravel + 1.5 inch	0.9		
Percent Gravel 1.5 to 0.75 inches	2.8	Total Percent Gravel	13.6
Percent Gravel 0.75 inch to #4 sieve	9.9		

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	
4 - 10	19.7	3.3	5.5	10.8	49.7
10 - 15	21.7	2.2	5.1	14.5	36.8
15 - 20	14.3	2.1	4.4	7.8	30.8
20 - 30	16.5	0.5	4.1	11.9	46.4
30 - 40	9.6	0.8	2.0	6.8	47.8
40 - 45	4.1	0.0	0.0	4.1	19.6
45 - 50	2.0	0.0	0.0	2.0	24.9
50 - 55	7.9	0.6	0.8	6.5	28.3
55 - 60	22.8	2.0	4.2	16.6	34.2
60 - 70	8.7	0.0	0.8	7.9	39.5
70 - 80	12.2	0.0	2.4	9.8	41.0
80 - 85	24.2	0.0	4.0	20.2	56.5
85 - 89	20.5	2.7	4.2	13.6	35.3
89 - 92	13.7	0.0	2.5	11.2	33.5

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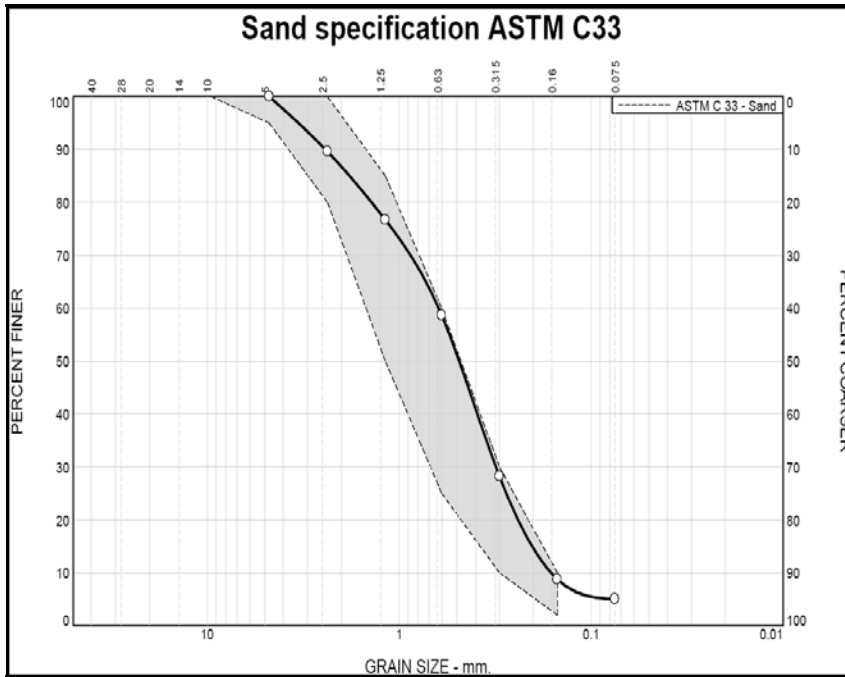
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HOLE NO. F3750

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 4.5 to 80 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	10.4	89.6	80 - 100
No. 16	12.9	76.7	50 - 85
No. 30	18.0	58.7	25 - 60
No. 50	30.5	28.2	10 - 30
No. 100	19.4	8.7	2 - 10
No. 200	3.7	5.0	
Pan	5.0		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4.5 to 80 feet

Percent Gravel + 1.5 inch	2.8		
Percent Gravel 1.5 to 0.75 inches	4.7		
Percent Gravel 0.75 inch to #4 sieve	16.8		
Total Percent Gravel		24.2	

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	
4.5 - 10	13.0	0.0	2.0	11.0	37.3
10 - 15	4.5	0.7	0.3	3.5	32.2
15 - 20	22.8	5.0	3.3	14.4	32.6
20 - 25	27.0	0.0	4.2	22.8	20.6
25 - 30	27.9	6.5	4.2	17.1	25.5
30 - 35	7.1	0.0	2.0	5.1	19.6
35 - 40	42.3	6.7	11.3	24.2	28.4
40 - 45	61.4	16.6	13.5	31.4	27.9
45 - 50	37.9	3.4	8.3	26.2	35.0
50 - 55	14.1	0.8	2.7	10.6	22.5
55 - 60	17.8	0.5	2.7	14.6	29.4
60 - 70	24.8	0.0	4.8	20.0	26.9
70 - 80	19.7	0.6	3.2	15.9	32.7

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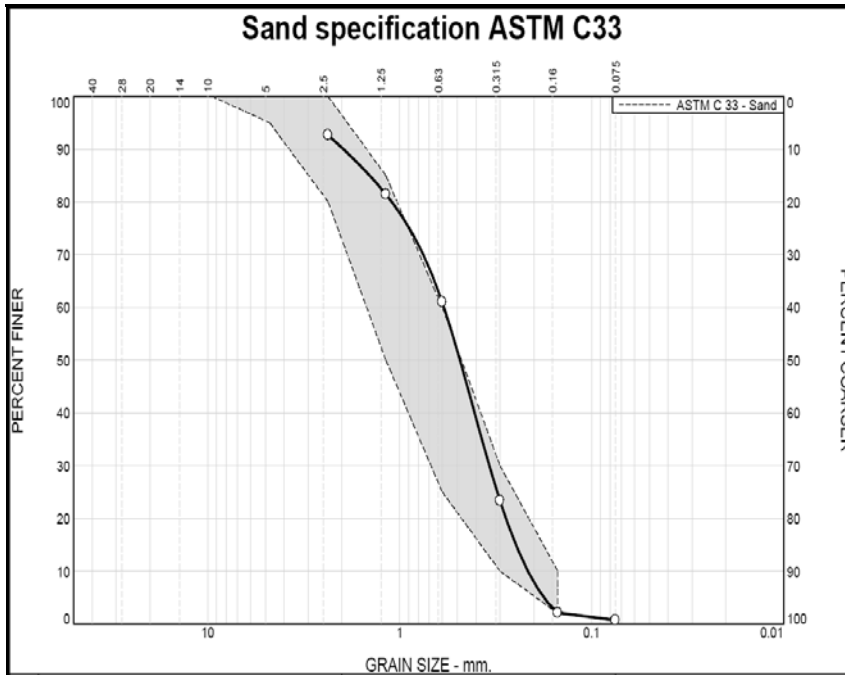
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HOLE NO. FF0850

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 42 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.3	92.7	80 - 100
No. 16	11.2	81.4	50 - 85
No. 30	20.4	61.0	25 - 60
No. 50	37.7	23.3	10 - 30
No. 100	21.2	2.1	2 - 10
No. 200	1.4	0.7	
Pan	0.7		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 42 feet

Percent Gravel + 1.5 inch	1.9		
Percent Gravel 1.5 to 0.75 inches	4.7	Total Percent Gravel	19.3
Percent Gravel 0.75 inch to #4 sieve	12.7		

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	
3 - 10	22.0	4.7	6.0	11.4	38.9
10 - 25	5.2	0.0	1.5	3.7	33.9
25 - 30	29.8	1.2	7.9	20.7	40.7
30 - 35	30.5	2.4	6.7	21.4	30.5
35 - 42	31.1	3.2	6.3	21.6	50.1

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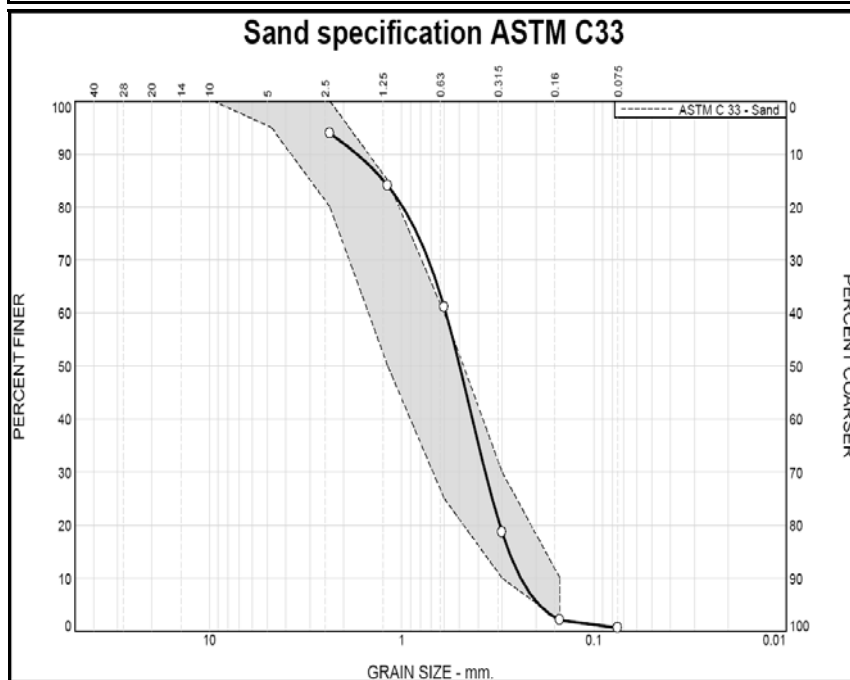
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HOLE NO. FF1050

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 37 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	6.1	93.9	80 - 100
No. 16	9.9	84.0	50 - 85
No. 30	22.9	61.1	25 - 60
No. 50	42.5	18.6	10 - 30
No. 100	16.6	2.1	2 - 10
No. 200	1.5	0.6	
Pan	0.6		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 37 feet

Percent Gravel + 1.5 inch	3.5		
Percent Gravel 1.5 to 0.75 inches	5.8		
Percent Gravel 0.75 inch to #4 sieve	12.7		
		Total Percent Gravel	22.1

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	
5 - 15	8.4	0.6	3.5	4.3	31.7
15 - 20	12.8	6.9	2.1	3.8	30.1
20 - 25	26.6	9.9	7.2	9.4	33.1
25 - 30	31.2	2.5	8.2	20.5	32.7
30 - 37	38.4	1.5	8.9	28.0	42.0

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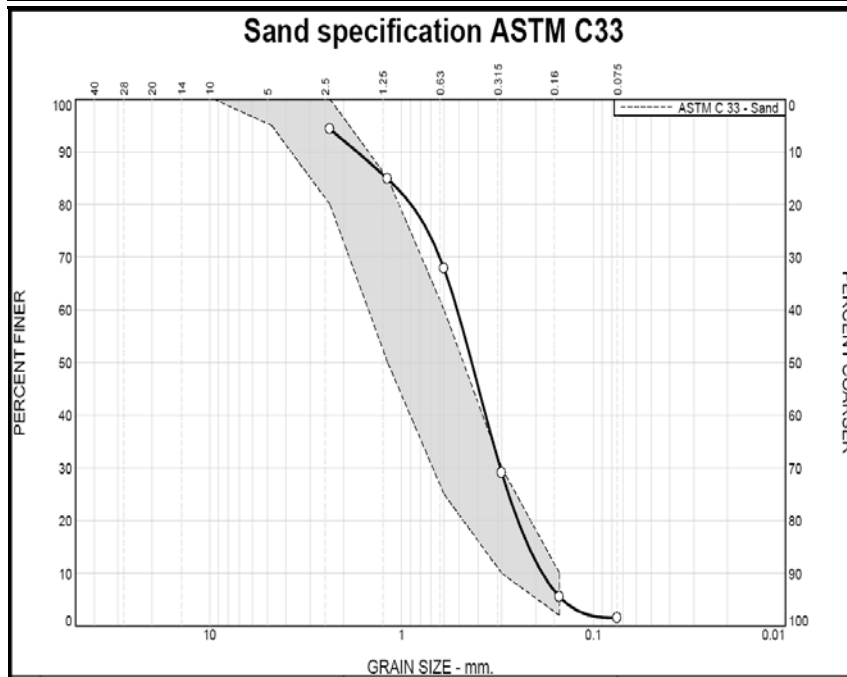
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. FF1250

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 38 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	5.7	94.3	80 - 100
No. 16	9.5	84.8	50 - 85
No. 30	17.0	67.8	25 - 60
No. 50	38.8	29.0	10 - 30
No. 100	23.5	5.5	2 - 10
No. 200	4.0	1.5	
Pan	1.5		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 38 feet

Percent Gravel + 1.5 inch	1.8		
Percent Gravel 1.5 to 0.75 inches	4.0	Total Percent Gravel	14.9
Percent Gravel 0.75 inch to #4 sieve	9.0		

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 - 15	5.0	0.0	2.0	3.0	27.2
15 - 25	4.2	0.0	1.3	2.9	27.2
25 - 38	30.7	4.7	7.7	18.3	41.4

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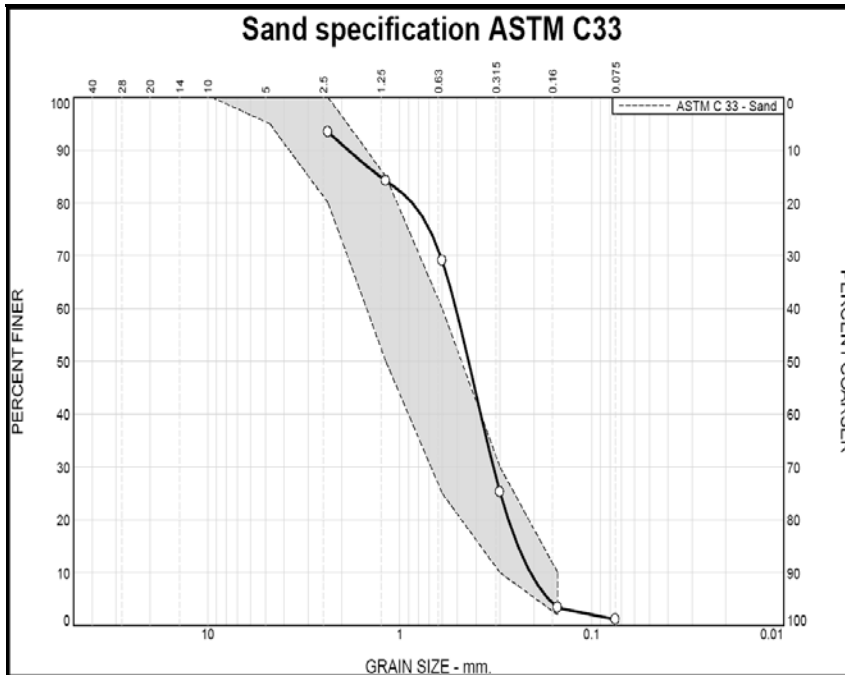
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. FF1450

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 40 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	6.6	93.4	80 - 100
No. 16	9.2	84.2	50 - 85
No. 30	15.2	69.0	25 - 60
No. 50	43.8	25.2	10 - 30
No. 100	21.9	3.4	2 - 10
No. 200	2.2	1.1	
Pan	1.1		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 40 feet

Percent Gravel + 1.5 inch	2.4		
Percent Gravel 1.5 to 0.75 inches	4.0	Total Percent Gravel	14.7
Percent Gravel 0.75 inch to #4 sieve	8.2		

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	
3 - 15	3.1	0.0	0.3	2.8	28.9
15 - 25	1.8	0.0	0.5	1.3	22.3
25 - 30	38.0	11.0	11.2	15.9	34.0
30 - 35	37.3	1.9	12.5	22.8	41.6
35 - 40	22.2	4.9	4.4	12.9	21.6

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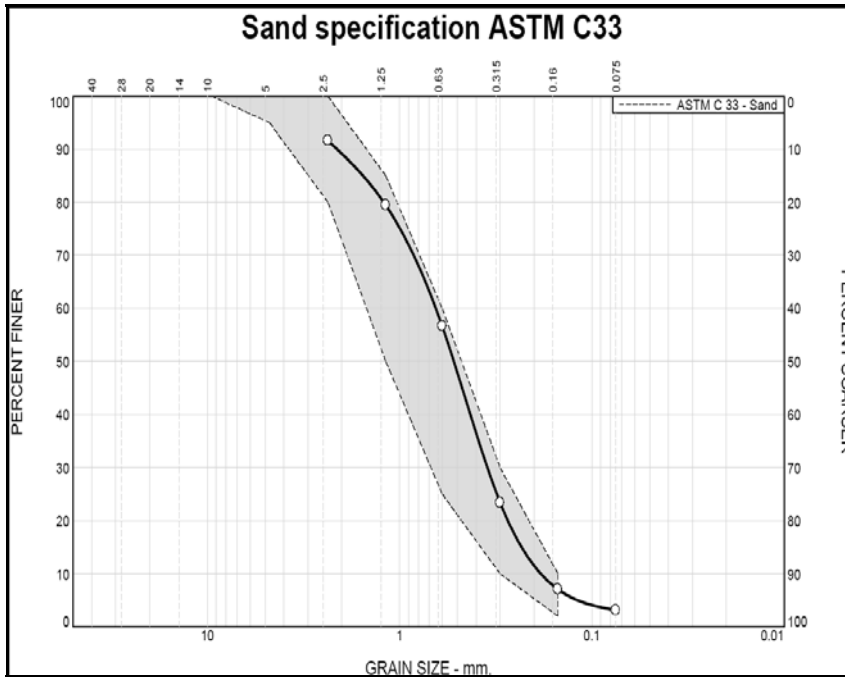
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. FF2450

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 56 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	8.4	91.6	80 - 100
No. 16	12.2	79.4	50 - 85
No. 30	22.8	56.7	25 - 60
No. 50	33.3	23.4	10 - 30
No. 100	16.3	7.0	2 - 10
No. 200	3.9	3.1	
Pan	3.1		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 56 feet

Percent Gravel + 1.5 inch	2.0		
Percent Gravel 1.5 to 0.75 inches	4.1		
Percent Gravel 0.75 inch to #4 sieve	10.5		
		Total Percent Gravel	16.7

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	
9 - 20	1.3	0.0	0.1	1.2	38.8
20 - 30	12.8	0.0	4.0	8.8	26.1
30 - 40	24.9	2.0	8.9	14.0	33.4
40 - 45	19.3	0.0	3.7	15.6	37.0
45 - 50	19.5	2.9	3.2	13.4	33.7
50 - 55	26.1	7.6	7.7	10.9	32.6
55 - 60	11.7	0.5	1.3	9.8	39.0
60 - 64	35.7	9.5	4.1	22.1	47.2

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