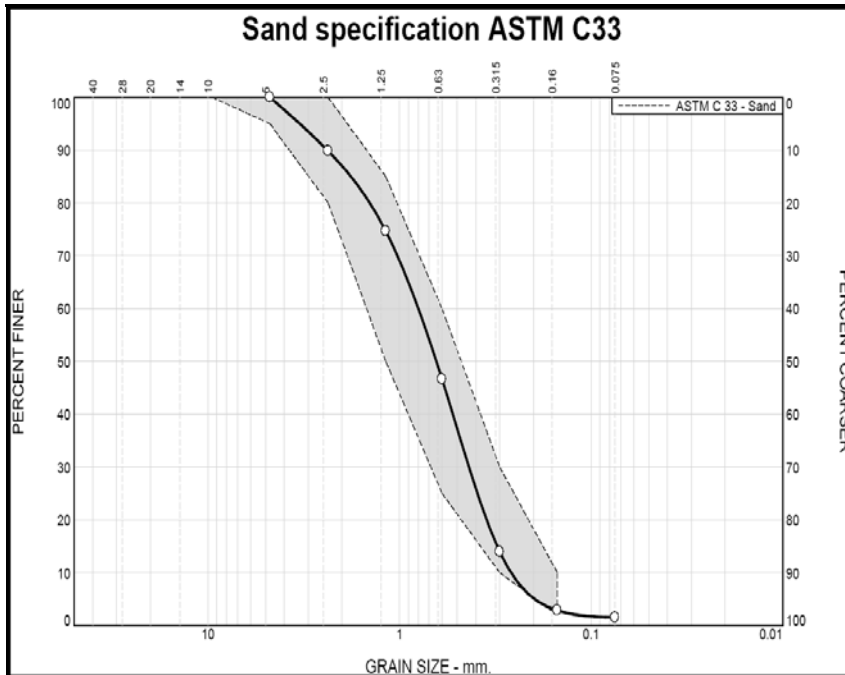


LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. 10200

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 6 to 15 feet



| Sieve | Wt. % Ret. | % Passing | ASTM C33 |
|---------|------------|-----------|----------|
| No. 4 | 0.0 | 100.0 | 95 - 100 |
| No. 8 | 10.2 | 89.8 | 80 - 100 |
| No. 16 | 15.2 | 74.7 | 50 - 85 |
| No. 30 | 28.0 | 46.6 | 25 - 60 |
| No. 50 | 32.7 | 13.9 | 10 - 30 |
| No. 100 | 11.1 | 2.8 | 2 - 10 |
| No. 200 | 1.3 | 1.5 | |
| Pan | 1.5 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 6 to 15 feet

| | | | |
|--------------------------------------|------|-----------------------------|-------------|
| Percent Gravel + 1.5 inch | 0.0 | | |
| Percent Gravel 1.5 to 0.75 inches | 2.0 | Total Percent Gravel | 13.6 |
| Percent Gravel 0.75 inch to #4 sieve | 11.6 | | |

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 | |
| 6 - 10 | 14.5 | 0.0 | 2.1 | 12.4 | 22.5 |
| 10 - 15 | 12.8 | 0.0 | 1.9 | 10.9 | 22.2 |

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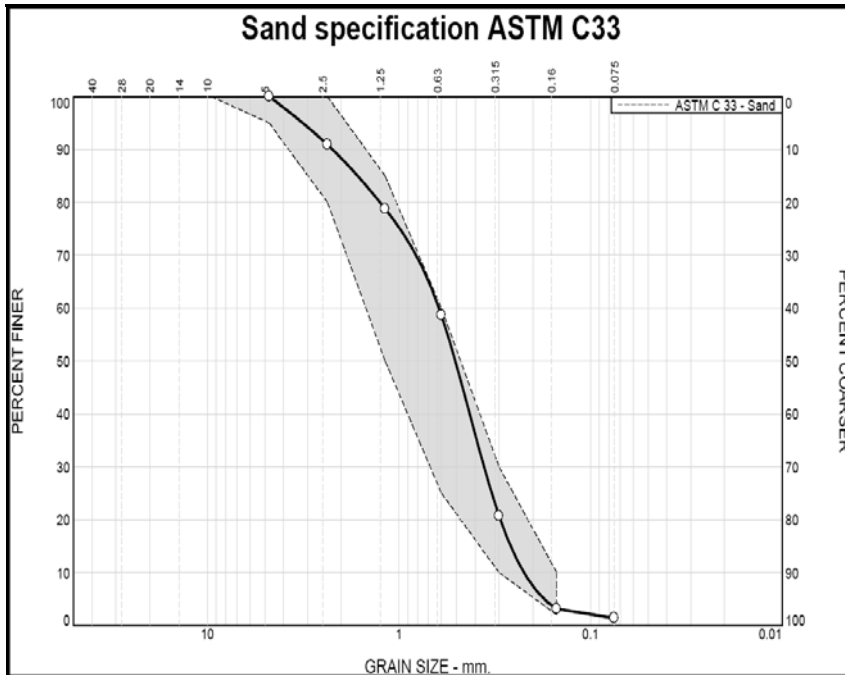
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. I0400

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 50 feet



| Sieve | Wt. % Ret. | % Passing | ASTM C33 |
|---------|------------|-----------|----------|
| No. 4 | 0.0 | 100.0 | 95 - 100 |
| No. 8 | 9.1 | 90.9 | 80 - 100 |
| No. 16 | 12.1 | 78.8 | 50 - 85 |
| No. 30 | 20.1 | 58.7 | 25 - 60 |
| No. 50 | 38.0 | 20.7 | 10 - 30 |
| No. 100 | 17.6 | 3.1 | 2 - 10 |
| No. 200 | 1.7 | 1.4 | |
| Pan | 1.4 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 50 feet

| | | | |
|--------------------------------------|------|-------------|--|
| Percent Gravel + 1.5 inch | 0.5 | | |
| Percent Gravel 1.5 to 0.75 inches | 4.2 | | |
| Percent Gravel 0.75 inch to #4 sieve | 14.7 | | |
| Total Percent Gravel | | 19.3 | |

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 | 25.6 | 1.1 | 4.9 | 19.6 | 29.8 |
| 10 - 15 | 32.4 | 0.0 | 6.9 | 25.5 | 21.4 |
| 15 - 20 | 11.3 | 0.0 | 3.3 | 8.0 | 20.0 |
| 20 - 25 | 7.5 | 0.0 | 2.7 | 4.8 | 21.8 |
| 25 - 30 | 2.4 | 0.0 | 0.3 | 2.1 | 17.9 |
| 30 - 35 | 24.2 | 1.6 | 6.0 | 16.5 | 25.7 |
| 35 - 40 | 27.3 | 0.5 | 4.6 | 22.1 | 32.7 |
| 40 - 45 | 25.8 | 0.0 | 5.8 | 20.0 | 24.8 |
| 45 - 50 | 17.1 | 1.0 | 2.8 | 13.3 | 22.8 |

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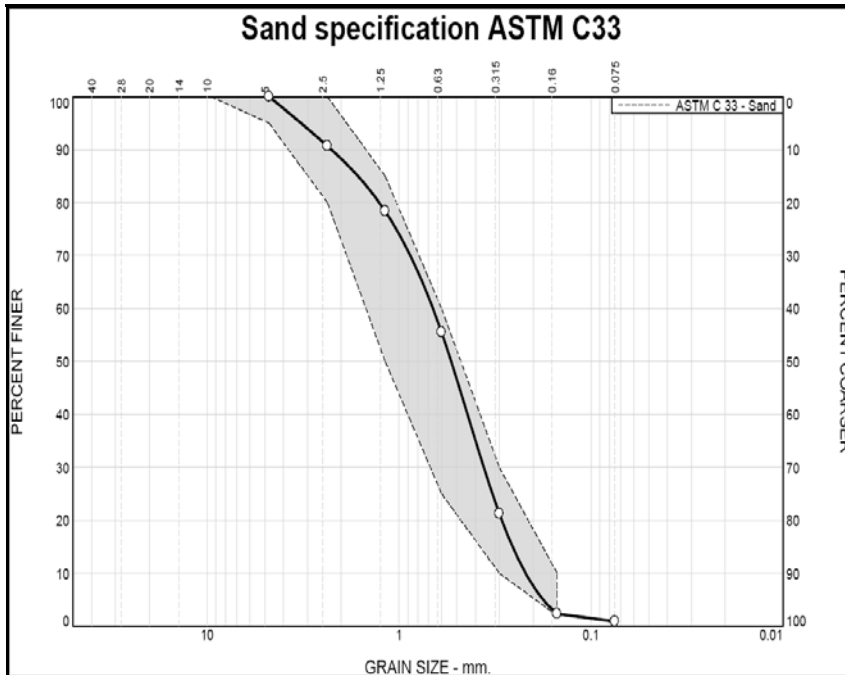
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. 10600

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 4.5 to 45 feet



| Sieve | Wt. % Ret. | % Passing | ASTM C33 |
|---------|------------|-----------|----------|
| No. 4 | 0.0 | 100.0 | 95 - 100 |
| No. 8 | 9.3 | 90.7 | 80 - 100 |
| No. 16 | 12.3 | 78.4 | 50 - 85 |
| No. 30 | 22.9 | 55.5 | 25 - 60 |
| No. 50 | 34.3 | 21.2 | 10 - 30 |
| No. 100 | 18.9 | 2.3 | 2 - 10 |
| No. 200 | 1.4 | 0.9 | |
| Pan | 0.9 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4.5 to 45 feet

| | | | |
|--------------------------------------|------|-------------|--|
| Percent Gravel + 1.5 inch | 6.5 | | |
| Percent Gravel 1.5 to 0.75 inches | 5.0 | | |
| Percent Gravel 0.75 inch to #4 sieve | 11.0 | | |
| Total Percent Gravel | | 22.5 | |

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 | |
| 4.5 - 10 | 17.5 | 1.5 | 2.8 | 13.2 | 23.4 |
| 10 - 15 | 12.2 | 4.7 | 1.7 | 5.9 | 22.5 |
| 15 - 20 | 25.5 | 11.4 | 5.4 | 8.7 | 26.1 |
| 20 - 25 | 30.2 | 6.9 | 9.5 | 13.8 | 29.7 |
| 25 - 30 | 25.9 | 12.2 | 3.6 | 10.1 | 26.4 |
| 30 - 35 | 25.4 | 7.6 | 4.7 | 13.2 | 29.6 |
| 35 - 40 | 31.6 | 8.6 | 8.8 | 14.2 | 32.0 |
| 40 - 45 | 12.4 | 0.0 | 3.4 | 9.0 | 18.3 |

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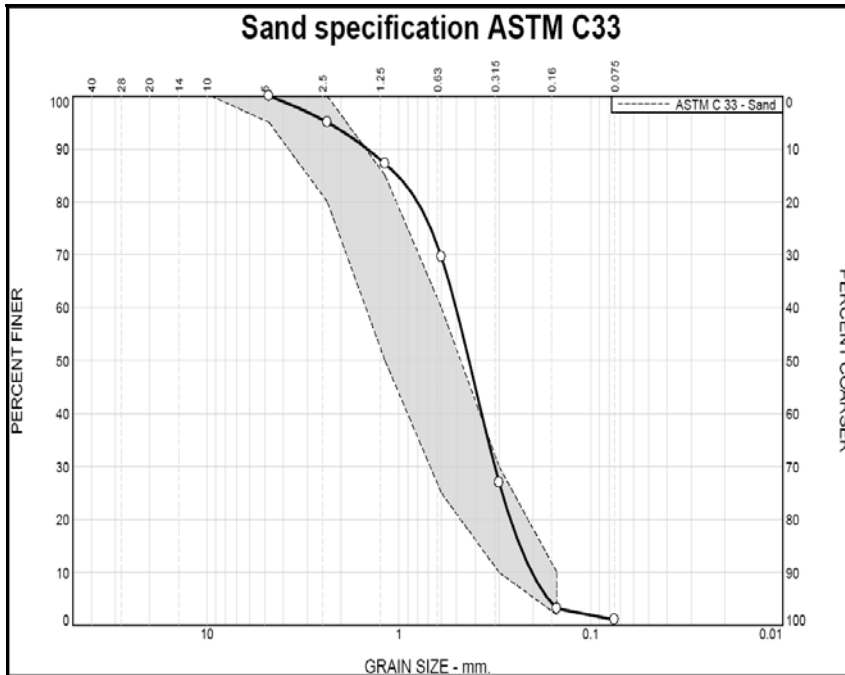
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. 10800

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 50 feet



| Sieve | Wt. % Ret. | % Passing | ASTM C33 |
|---------|------------|-----------|----------|
| No. 4 | 0.0 | 100.0 | 95 - 100 |
| No. 8 | 5.0 | 95.0 | 80 - 100 |
| No. 16 | 7.8 | 87.2 | 50 - 85 |
| No. 30 | 17.6 | 69.6 | 25 - 60 |
| No. 50 | 42.6 | 27.0 | 10 - 30 |
| No. 100 | 23.8 | 3.2 | 2 - 10 |
| No. 200 | 2.1 | 1.1 | |
| Pan | 1.1 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 50 feet

| | | | |
|--------------------------------------|-----|-----------------------------|-------------|
| Percent Gravel + 1.5 inch | 5.3 | | |
| Percent Gravel 1.5 to 0.75 inches | 2.1 | Total Percent Gravel | 14.1 |
| Percent Gravel 0.75 inch to #4 sieve | 6.6 | | |

| 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 - 10 | 13.3 | 3.5 | 1.2 | 8.6 | 21.5 |
| 10 - 15 | 16.4 | 6.4 | 1.4 | 8.7 | 19.8 |
| 15 - 20 | 10.2 | 0.9 | 3.3 | 6.0 | 26.7 |
| 20 - 25 | 2.1 | 0.0 | 0.2 | 1.9 | 22.6 |
| 25 - 30 | 7.9 | 0.0 | 0.9 | 7.0 | 20.9 |
| 30 - 35 | 22.8 | 8.1 | 5.6 | 9.1 | 27.1 |
| 35 - 40 | 6.5 | 0.0 | 1.2 | 5.3 | 15.3 |
| 40 - 45 | 19.4 | 11.6 | 2.8 | 4.9 | 23.4 |
| 45 - 50 | 27.9 | 17.6 | 2.4 | 7.9 | 21.0 |

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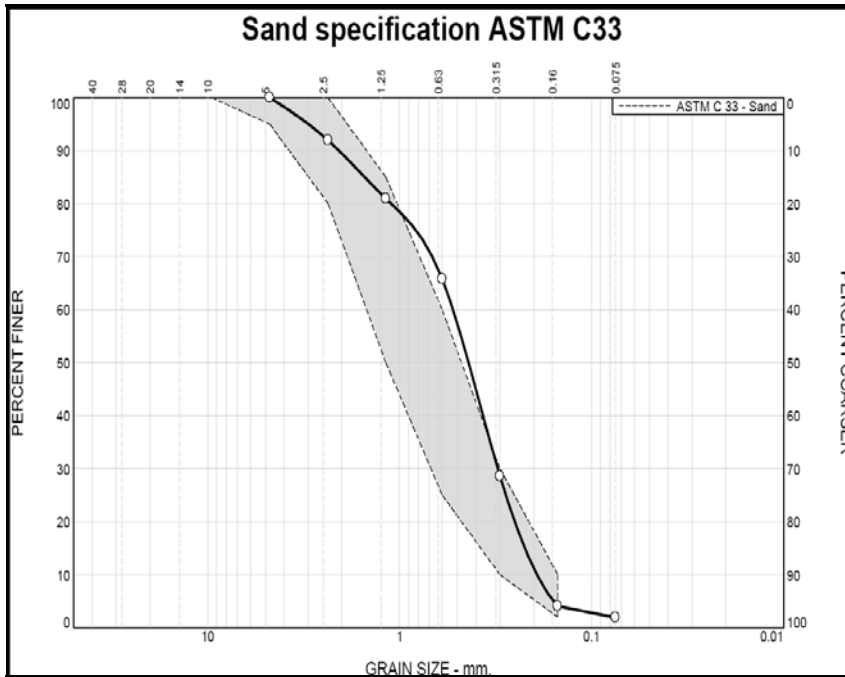
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. I1000

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 30 feet



| Sieve | Wt. % Ret. | % Passing | ASTM C33 |
|---------|------------|-----------|----------|
| No. 4 | 0.0 | 100.0 | 95 - 100 |
| No. 8 | 8.1 | 91.9 | 80 - 100 |
| No. 16 | 11.0 | 80.9 | 50 - 85 |
| No. 30 | 15.2 | 65.8 | 25 - 60 |
| No. 50 | 37.2 | 28.6 | 10 - 30 |
| No. 100 | 24.5 | 4.1 | 2 - 10 |
| No. 200 | 2.1 | 1.9 | |
| Pan | 1.9 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 30 feet

| | | | |
|--------------------------------------|------|-----------------------------|-------------|
| Percent Gravel + 1.5 inch | 1.6 | | |
| Percent Gravel 1.5 to 0.75 inches | 2.4 | Total Percent Gravel | 14.3 |
| Percent Gravel 0.75 inch to #4 sieve | 10.3 | | |

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 | 4.0 | 0.0 | 0.0 | 4.0 | 19.2 |
| 10 - 15 | 3.9 | 0.0 | 0.4 | 3.6 | 21.4 |
| 15 - 20 | 2.3 | 0.0 | 0.0 | 2.3 | 17.5 |
| 20 - 25 | 31.3 | 3.3 | 5.3 | 22.7 | 30.8 |
| 25 - 30 | 29.8 | 4.9 | 6.2 | 18.7 | 27.1 |

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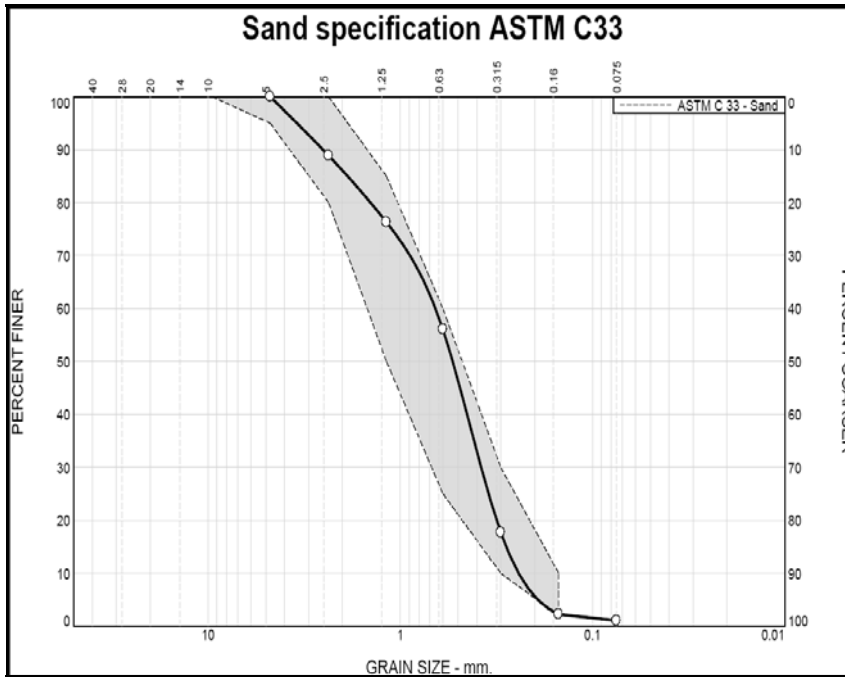
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. I1200

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 45 feet



| Sieve | Wt. % Ret. | % Passing | ASTM C33 |
|---------|------------|-----------|----------|
| No. 4 | 0.0 | 100.0 | 95 - 100 |
| No. 8 | 11.1 | 88.9 | 80 - 100 |
| No. 16 | 12.6 | 76.3 | 50 - 85 |
| No. 30 | 20.2 | 56.1 | 25 - 60 |
| No. 50 | 38.3 | 17.7 | 10 - 30 |
| No. 100 | 15.5 | 2.2 | 2 - 10 |
| No. 200 | 1.2 | 1.1 | |
| Pan | 1.1 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 45 feet

| | | | |
|--------------------------------------|------|-------------|--|
| Percent Gravel + 1.5 inch | 2.0 | | |
| Percent Gravel 1.5 to 0.75 inches | 3.4 | | |
| Percent Gravel 0.75 inch to #4 sieve | 13.2 | | |
| 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 | 0.75 inch to #4 | |
| 6 - 10 | 17.2 | 0.0 | 4.2 | 13.1 | 23.1 |
| 10 - 15 | 10.6 | 1.2 | 2.7 | 6.7 | 22.7 |
| 15 - 20 | 6.7 | 0.0 | 0.8 | 5.9 | 21.4 |
| 20 - 25 | 18.3 | 6.6 | 5.0 | 6.7 | 26.2 |
| 25 - 30 | 33.1 | 4.8 | 6.9 | 21.4 | 28.0 |
| 30 - 35 | 23.0 | 1.1 | 2.1 | 19.8 | 17.3 |
| 35 - 40 | 20.7 | 0.0 | 3.0 | 17.6 | 18.0 |
| 40 - 45 | 19.4 | 2.0 | 3.0 | 14.3 | 19.4 |

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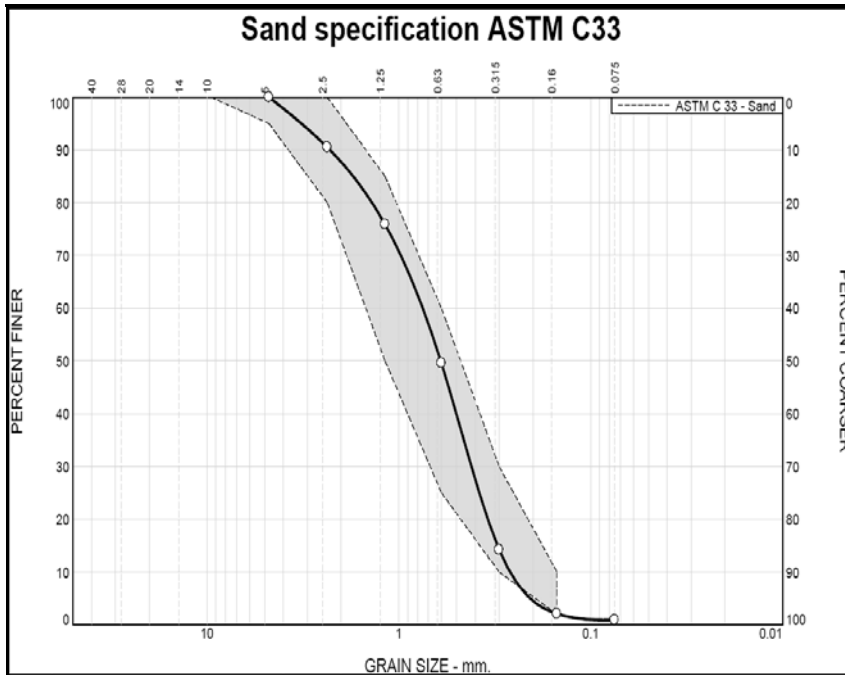
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. I1400

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 4.5 to 65 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 | 14.6 | 75.9 | 50 - 85 |
| No. 30 | 26.3 | 49.6 | 25 - 60 |
| No. 50 | 35.4 | 14.2 | 10 - 30 |
| No. 100 | 12.2 | 2.1 | 2 - 10 |
| No. 200 | 1.2 | 0.9 | |
| Pan | 0.9 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4.5 to 65 feet

| | | | |
|--------------------------------------|------|-------------|--|
| Percent Gravel + 1.5 inch | 3.3 | | |
| Percent Gravel 1.5 to 0.75 inches | 4.0 | | |
| Percent Gravel 0.75 inch to #4 sieve | 12.0 | | |
| Total Percent Gravel | | 19.3 | |

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 - 10 | 22.3 | 5.4 | 3.4 | 13.5 | 33.1 |
| 10 - 15 | 11.7 | 1.5 | 2.2 | 8.0 | 27.6 |
| 15 - 20 | 26.2 | 0.0 | 7.1 | 19.2 | 24.2 |
| 20 - 25 | 22.2 | 6.3 | 3.5 | 12.4 | 26.2 |
| 25 - 30 | 25.0 | 8.2 | 3.8 | 13.0 | 20.7 |
| 30 - 35 | 11.2 | 2.1 | 3.3 | 5.7 | 22.6 |
| 35 - 40 | 22.2 | 6.5 | 7.8 | 7.9 | 28.4 |
| 40 - 45 | 12.0 | 1.4 | 2.6 | 8.0 | 19.3 |
| 45 - 50 | 26.3 | 5.2 | 4.7 | 16.5 | 27.6 |
| 50 - 55 | 20.8 | 2.7 | 3.7 | 14.4 | 22.3 |
| 55 - 60 | 17.7 | 0.0 | 3.3 | 14.4 | 21.2 |
| 60 - 65 | 13.4 | 0.0 | 2.4 | 11.0 | 17.0 |

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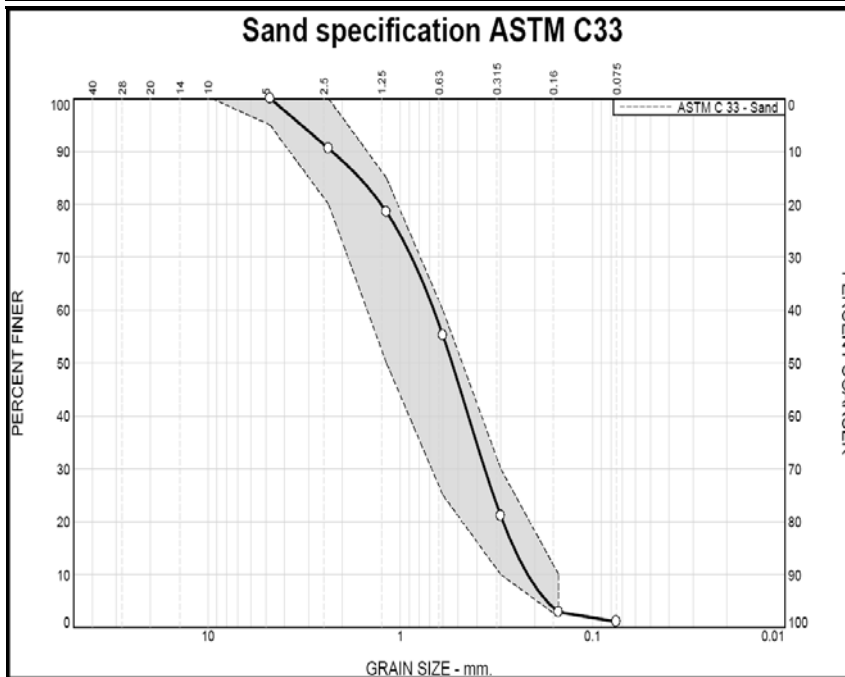
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. I1600

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 65 feet



| Sieve | Wt. % Ret. | % Passing | ASTM C33 |
|---------|------------|-----------|----------|
| No. 4 | 0.0 | 100.0 | 95 - 100 |
| No. 8 | 9.4 | 90.6 | 80 - 100 |
| No. 16 | 12.0 | 78.6 | 50 - 85 |
| No. 30 | 23.3 | 55.2 | 25 - 60 |
| No. 50 | 34.2 | 21.1 | 10 - 30 |
| No. 100 | 18.2 | 2.9 | 2 - 10 |
| No. 200 | 1.8 | 1.1 | |
| Pan | 1.1 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 65 feet

| | | | |
|--------------------------------------|------|-------------|--|
| Percent Gravel + 1.5 inch | 2.2 | | |
| Percent Gravel 1.5 to 0.75 inches | 3.9 | | |
| Percent Gravel 0.75 inch to #4 sieve | 12.3 | | |
| Total Percent Gravel | | 18.4 | |

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

| Interval | PERCENT GRAVEL | | | Sample Wt. (lbs.) |
|----------|----------------|------------|------------------|-------------------|
| | Total | + 1.5 inch | 1.5 to 0.75 inch | |
| 4 - 10 | 14.4 | 0.8 | 1.8 | 33.0 |
| 10 - 15 | 5.8 | 1.1 | 1.0 | 26.8 |
| 15 - 20 | 7.0 | 0.0 | 1.6 | 25.6 |
| 20 - 25 | 25.7 | 4.3 | 6.9 | 28.3 |
| 25 - 30 | 23.4 | 1.1 | 5.8 | 34.9 |
| 30 - 35 | 15.3 | 5.3 | 3.8 | 25.2 |
| 35 - 40 | 10.9 | 3.7 | 1.6 | 25.7 |
| 40 - 45 | 20.7 | 4.4 | 6.9 | 27.0 |
| 45 - 50 | 31.9 | 0.5 | 5.9 | 34.7 |
| 50 - 55 | 33.2 | 4.6 | 6.5 | 33.0 |
| 55 - 60 | 22.1 | 0.8 | 4.5 | 29.0 |
| 60 - 65 | 11.1 | 0.0 | 1.4 | 21.7 |

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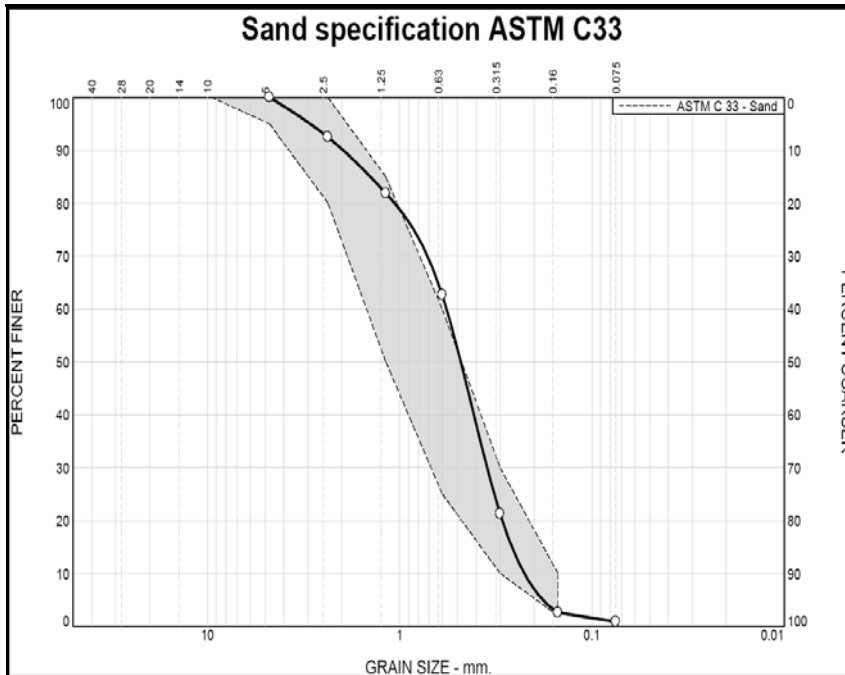
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. I1800

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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 | 7.5 | 92.5 | 80 - 100 |
| No. 16 | 10.6 | 81.9 | 50 - 85 |
| No. 30 | 19.2 | 62.6 | 25 - 60 |
| No. 50 | 41.4 | 21.3 | 10 - 30 |
| No. 100 | 18.7 | 2.6 | 2 - 10 |
| No. 200 | 1.7 | 0.9 | |
| Pan | 0.9 | | |

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

| | | | |
|--------------------------------------|------|-----------------------------|-------------|
| Percent Gravel + 1.5 inch | 0.9 | | |
| Percent Gravel 1.5 to 0.75 inches | 2.9 | Total Percent Gravel | 16.0 |
| Percent Gravel 0.75 inch to #4 sieve | 12.3 | | |

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

| Interval | PERCENT GRAVEL | | | Sample Wt. (lbs.) |
|----------|----------------|------------|------------------|-------------------|
| | Total | + 1.5 inch | 1.5 to 0.75 inch | |
| 5 - 15 | 3.6 | 0.0 | 1.3 | 27.6 |
| 15 - 25 | 4.0 | 0.0 | 0.2 | 27.3 |
| 25 - 30 | 19.6 | 0.9 | 3.6 | 27.5 |
| 30 - 35 | 30.5 | 3.2 | 4.8 | 28.0 |
| 35 - 40 | 30.5 | 0.6 | 4.0 | 39.1 |
| 40 - 45 | 24.7 | 0.0 | 6.1 | 34.0 |
| 45 - 50 | 24.0 | 4.1 | 4.5 | 30.8 |
| 50 - 55 | 15.9 | 0.0 | 2.9 | 23.4 |

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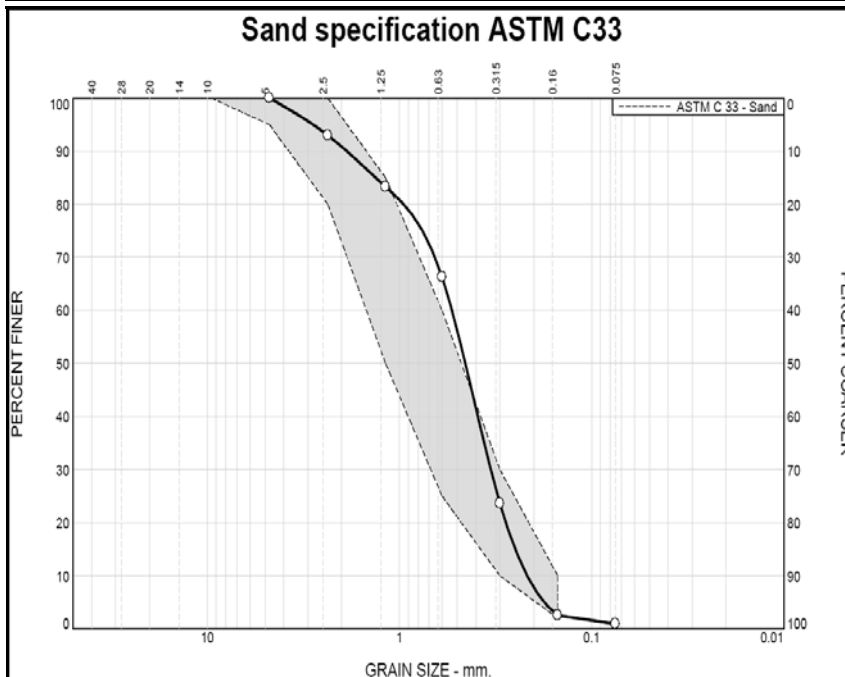
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. I2000

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 65 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 | 9.7 | 83.3 | 50 - 85 |
| No. 30 | 17.0 | 66.3 | 25 - 60 |
| No. 50 | 42.7 | 23.6 | 10 - 30 |
| No. 100 | 21.1 | 2.5 | 2 - 10 |
| No. 200 | 1.6 | 0.9 | |
| Pan | 0.9 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 65 feet

| | | | |
|--------------------------------------|-----|-------------|--|
| Percent Gravel + 1.5 inch | 1.7 | | |
| Percent Gravel 1.5 to 0.75 inches | 3.2 | | |
| Percent Gravel 0.75 inch to #4 sieve | 9.0 | | |
| Total Percent Gravel | | 13.9 | |

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 | |
| 4 - 15 | 5.3 | 2.2 | 0.6 | 2.5 | 29.4 |
| 15 - 25 | 8.7 | 1.3 | 1.4 | 6.0 | 31.5 |
| 25 - 35 | 3.5 | 0.0 | 0.3 | 3.2 | 24.9 |
| 35 - 40 | 10.6 | 5.1 | 1.4 | 4.0 | 25.4 |
| 40 - 45 | 28.1 | 2.9 | 9.6 | 15.6 | 35.6 |
| 45 - 50 | 22.3 | 2.5 | 6.9 | 12.9 | 28.4 |
| 50 - 55 | 26.1 | 1.5 | 4.4 | 20.1 | 26.3 |
| 55 - 60 | 20.9 | 0.0 | 5.6 | 15.3 | 23.5 |
| 60 - 65 | 24.9 | 1.2 | 6.1 | 17.6 | 29.2 |

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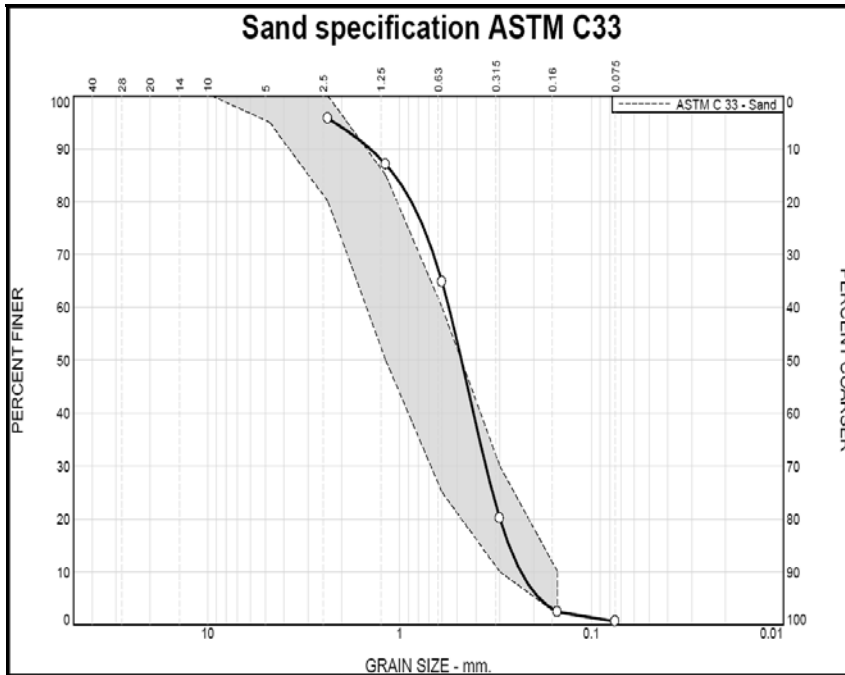
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. I2100

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 3.5 to 59 feet



| Sieve | Wt. % Ret. | % Passing | ASTM C33 |
|---------|------------|-----------|----------|
| No. 4 | 0.0 | 100.0 | 95 - 100 |
| No. 8 | 4.3 | 95.7 | 80 - 100 |
| No. 16 | 8.7 | 87.0 | 50 - 85 |
| No. 30 | 22.2 | 64.8 | 25 - 60 |
| No. 50 | 44.7 | 20.1 | 10 - 30 |
| No. 100 | 17.7 | 2.4 | 2 - 10 |
| No. 200 | 1.8 | 0.6 | |
| Pan | 0.6 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3.5 to 59 feet

| | | | |
|--------------------------------------|-----|-----------------------------|-------------|
| Percent Gravel + 1.5 inch | 4.3 | | |
| Percent Gravel 1.5 to 0.75 inches | 3.1 | | |
| Percent Gravel 0.75 inch to #4 sieve | 8.1 | | |
| | | Total Percent Gravel | 15.5 |

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 | |
| 3.5 - 15 | 21.9 | 5.5 | 6.4 | 10.1 | 38.8 |
| 15 - 25 | 15.3 | 5.5 | 3.0 | 6.9 | 31.6 |
| 25 - 35 | 8.0 | 0.9 | 0.7 | 6.3 | 30.6 |
| 35 - 45 | 8.6 | 2.2 | 1.2 | 5.2 | 31.7 |
| 45 - 50 | 14.1 | 0.6 | 3.5 | 10.0 | 35.4 |
| 50 - 55 | 26.1 | 14.9 | 2.4 | 8.9 | 22.8 |
| 55 - 59 | 21.8 | 2.8 | 5.6 | 13.4 | 35.8 |

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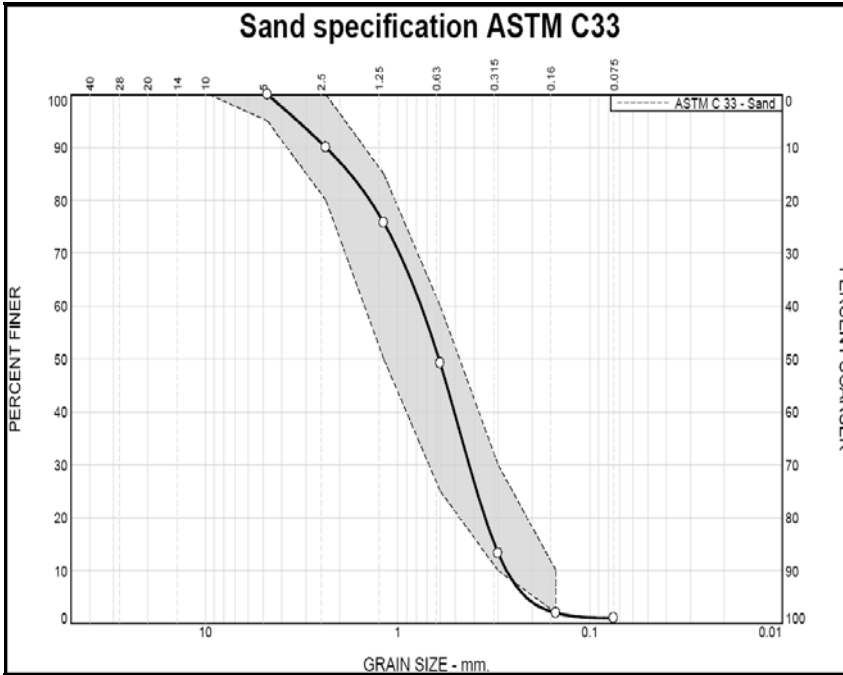
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. I2200

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 20 feet



| Sieve | Wt. % Ret. | % Passing | ASTM C33 |
|---------|------------|-----------|----------|
| No. 4 | 0.0 | 100.0 | 95 - 100 |
| No. 8 | 10.0 | 90.0 | 80 - 100 |
| No. 16 | 14.2 | 75.8 | 50 - 85 |
| No. 30 | 26.6 | 49.2 | 25 - 60 |
| No. 50 | 35.9 | 13.3 | 10 - 30 |
| No. 100 | 11.3 | 2.0 | 2 - 10 |
| No. 200 | 1.0 | 1.0 | |
| Pan | 1.0 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 20 feet

| | | | |
|--------------------------------------|-----|-----------------------------|-------------|
| Percent Gravel + 1.5 inch | 4.7 | | |
| Percent Gravel 1.5 to 0.75 inches | 6.0 | | |
| Percent Gravel 0.75 inch to #4 sieve | 9.7 | | |
| | | Total Percent Gravel | 20.4 |

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 | |
| 4 - 10 | 12.3 | 1.3 | 3.8 | 7.2 | 29.9 |
| 10 - 15 | 26.9 | 9.6 | 6.6 | 10.7 | 29.7 |
| 15 - 20 | 23.5 | 3.8 | 8.1 | 11.7 | 31.0 |

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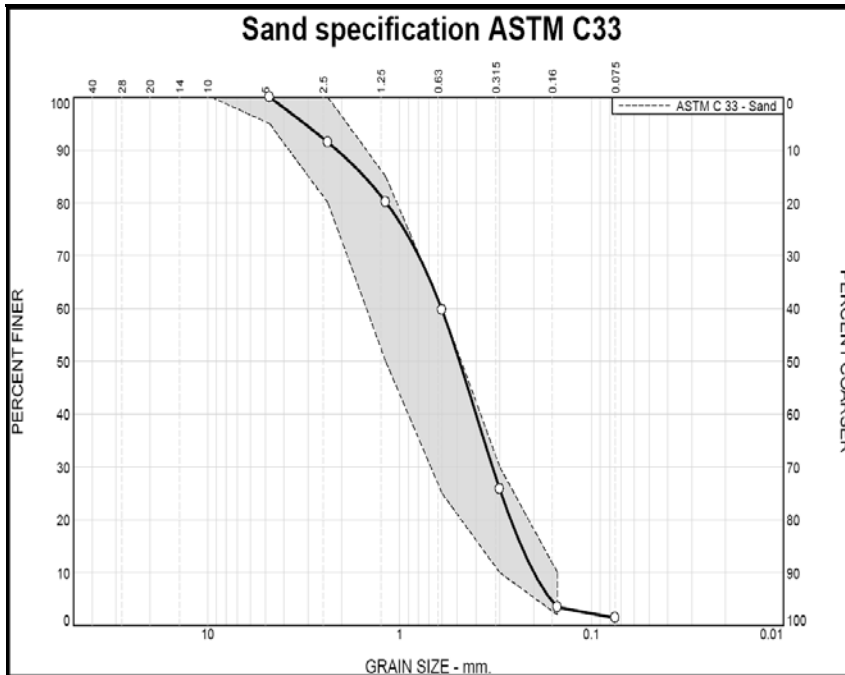
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. I2400

Page 1 of 1

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 | 8.5 | 91.5 | 80 - 100 |
| No. 16 | 11.3 | 80.2 | 50 - 85 |
| No. 30 | 20.4 | 59.7 | 25 - 60 |
| No. 50 | 34.0 | 25.8 | 10 - 30 |
| No. 100 | 22.3 | 3.5 | 2 - 10 |
| No. 200 | 2.0 | 1.4 | |
| Pan | 1.4 | | |

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

| | | | |
|--------------------------------------|------|-------------|--|
| Percent Gravel + 1.5 inch | 2.5 | | |
| Percent Gravel 1.5 to 0.75 inches | 4.1 | | |
| Percent Gravel 0.75 inch to #4 sieve | 13.1 | | |
| Total Percent Gravel | | 19.7 | |

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 | |
| 6 - 10 | 14.3 | 0.0 | 2.4 | 11.9 | 33.9 |
| 10 - 15 | 27.5 | 5.4 | 5.9 | 16.3 | 36.6 |
| 15 - 20 | 12.8 | 1.5 | 2.7 | 8.5 | 24.0 |
| 20 - 25 | 7.6 | 0.0 | 1.6 | 6.0 | 22.6 |
| 25 - 30 | 17.7 | 2.2 | 2.6 | 12.8 | 28.3 |
| 30 - 40 | 6.1 | 1.2 | 1.3 | 3.6 | 23.4 |
| 40 - 45 | 14.2 | 4.2 | 2.9 | 7.1 | 25.4 |
| 45 - 50 | 29.0 | 2.1 | 8.4 | 18.5 | 29.8 |
| 50 - 55 | 36.3 | 1.7 | 7.6 | 26.9 | 24.3 |
| 55 - 60 | 32.8 | 6.9 | 6.3 | 19.6 | 29.0 |
| 60 - 65 | 30.6 | 2.6 | 6.2 | 21.7 | 38.8 |

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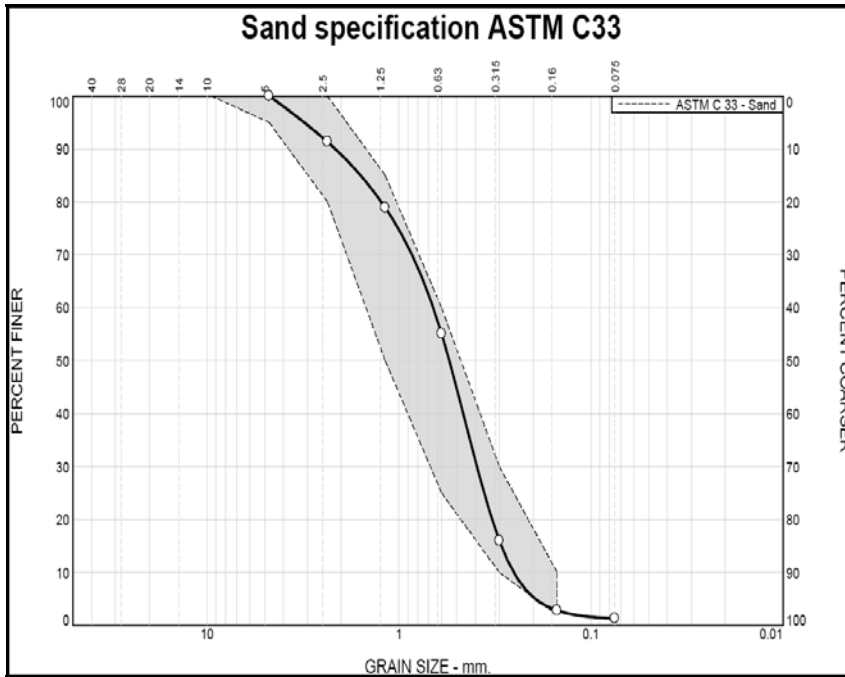
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. I2600

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 5.5 to 25 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 | 12.4 | 78.9 | 50 - 85 |
| No. 30 | 23.8 | 55.1 | 25 - 60 |
| No. 50 | 39.1 | 16.0 | 10 - 30 |
| No. 100 | 13.2 | 2.8 | 2 - 10 |
| No. 200 | 1.5 | 1.3 | |
| Pan | 1.3 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5.5 to 25 feet

| | | | |
|--------------------------------------|-----|-------------|--|
| Percent Gravel + 1.5 inch | 3.1 | | |
| Percent Gravel 1.5 to 0.75 inches | 3.4 | | |
| Percent Gravel 0.75 inch to #4 sieve | 8.6 | | |
| Total Percent Gravel | | 15.1 | |

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 | |
| 5.5 - 10 | 23.1 | 3.7 | 4.2 | 15.2 | 33.6 |
| 10 - 15 | 21.0 | 8.7 | 4.2 | 8.1 | 37.8 |
| 15 - 20 | 5.8 | 0.0 | 2.3 | 3.5 | 29.6 |
| 20 - 25 | 11.6 | 0.0 | 3.2 | 8.4 | 29.0 |

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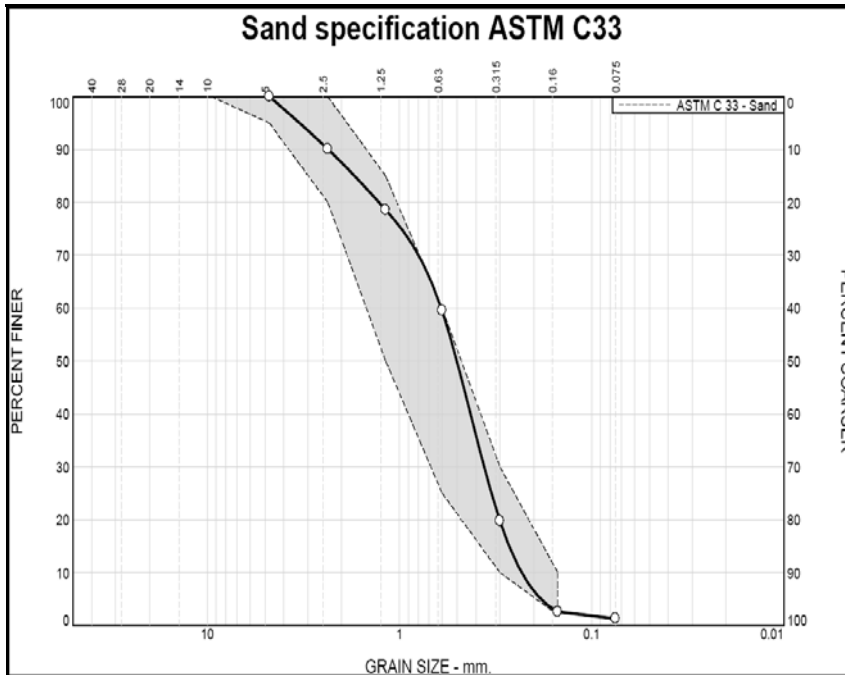
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. I2800

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 6 to 20 feet



| Sieve | Wt. % Ret. | % Passing | ASTM C33 |
|---------|------------|-----------|----------|
| No. 4 | 0.0 | 100.0 | 95 - 100 |
| No. 8 | 9.9 | 90.1 | 80 - 100 |
| No. 16 | 11.5 | 78.6 | 50 - 85 |
| No. 30 | 19.1 | 59.5 | 25 - 60 |
| No. 50 | 39.8 | 19.7 | 10 - 30 |
| No. 100 | 17.2 | 2.6 | 2 - 10 |
| No. 200 | 1.3 | 1.3 | |
| Pan | 1.3 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 6 to 20 feet

| | | | |
|--------------------------------------|------|-----------------------------|-------------|
| Percent Gravel + 1.5 inch | 1.4 | | |
| Percent Gravel 1.5 to 0.75 inches | 4.6 | Total Percent Gravel | 18.2 |
| Percent Gravel 0.75 inch to #4 sieve | 12.2 | | |

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 | 22.6 | 0.0 | 4.9 | 17.8 | 29.8 |
| 10 - 15 | 21.0 | 2.1 | 5.8 | 13.1 | 30.0 |
| 15 - 20 | 12.0 | 1.9 | 3.4 | 6.7 | 25.1 |

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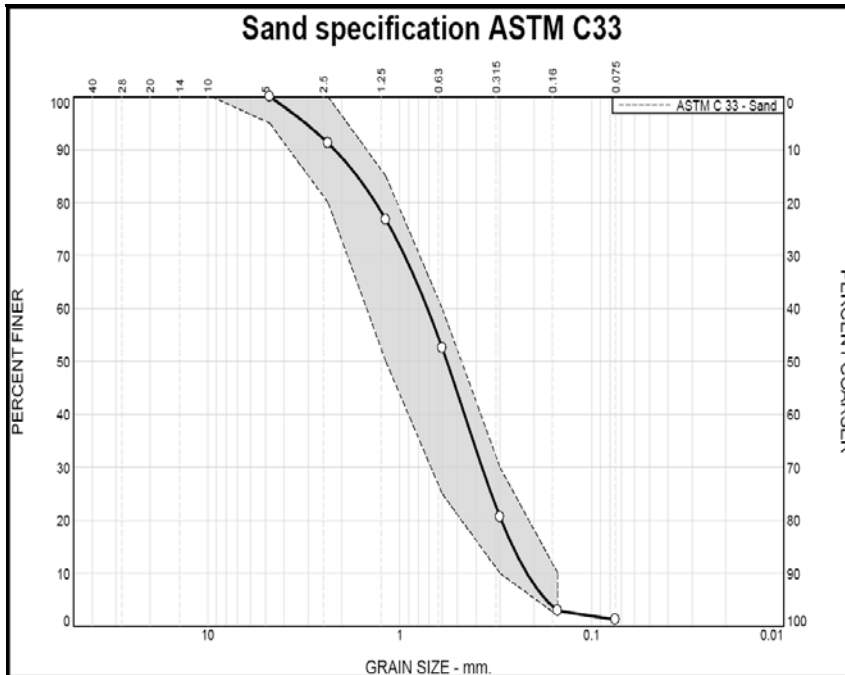
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. I3000

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 65 feet



| Sieve | Wt. % Ret. | % Passing | ASTM C33 |
|---------|------------|-----------|----------|
| No. 4 | 0.0 | 100.0 | 95 - 100 |
| No. 8 | 8.8 | 91.2 | 80 - 100 |
| No. 16 | 14.4 | 76.8 | 50 - 85 |
| No. 30 | 24.2 | 52.5 | 25 - 60 |
| No. 50 | 31.9 | 20.6 | 10 - 30 |
| No. 100 | 17.7 | 2.9 | 2 - 10 |
| No. 200 | 1.7 | 1.2 | |
| Pan | 1.2 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 65 feet

| | | | |
|--------------------------------------|------|-------------|--|
| Percent Gravel + 1.5 inch | 1.9 | | |
| Percent Gravel 1.5 to 0.75 inches | 4.4 | | |
| Percent Gravel 0.75 inch to #4 sieve | 14.3 | | |
| Total Percent Gravel | | 20.6 | |

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 - 15 | 11.1 | 0.7 | 3.9 | 6.5 | 29.3 |
| 15 - 25 | 2.9 | 0.0 | 0.9 | 2.0 | 30.4 |
| 25 - 30 | 28.3 | 2.0 | 5.3 | 21.0 | 31.3 |
| 30 - 35 | 31.7 | 1.1 | 5.9 | 24.7 | 34.3 |
| 35 - 40 | 31.5 | 7.2 | 4.5 | 19.8 | 32.1 |
| 40 - 45 | 24.2 | 0.0 | 4.5 | 19.7 | 25.8 |
| 45 - 50 | 29.5 | 2.1 | 7.3 | 20.1 | 30.7 |
| 50 - 55 | 24.5 | 1.9 | 7.2 | 15.4 | 32.9 |
| 55 - 60 | 21.0 | 1.6 | 3.5 | 15.8 | 26.0 |
| 60 - 65 | 28.7 | 5.3 | 5.0 | 18.4 | 20.3 |

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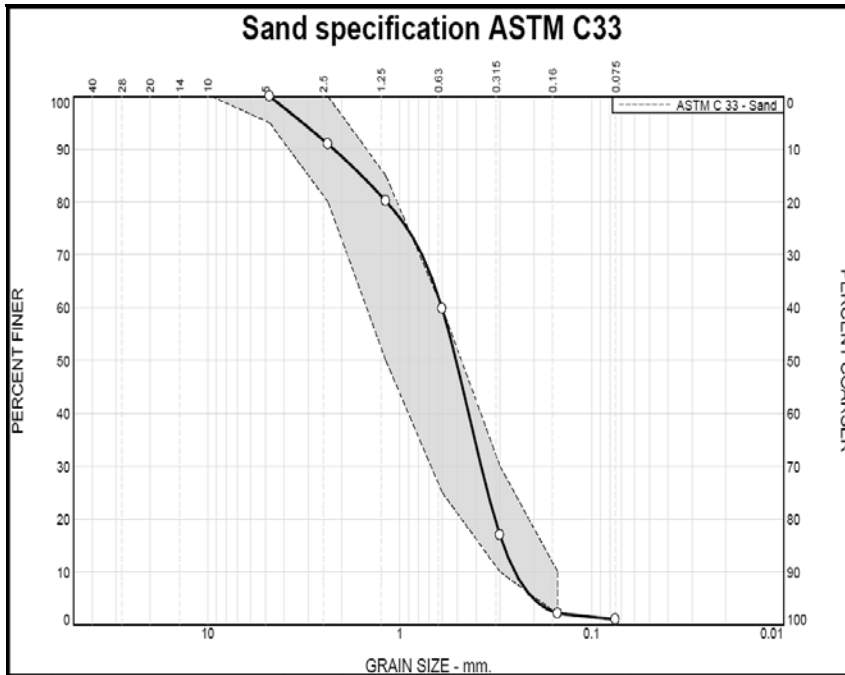
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. I3200

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 65 feet



| Sieve | Wt. % Ret. | % Passing | ASTM C33 |
|---------|------------|-----------|----------|
| No. 4 | 0.0 | 100.0 | 95 - 100 |
| No. 8 | 9.0 | 91.0 | 80 - 100 |
| No. 16 | 10.8 | 80.2 | 50 - 85 |
| No. 30 | 20.4 | 59.8 | 25 - 60 |
| No. 50 | 42.9 | 16.9 | 10 - 30 |
| No. 100 | 14.8 | 2.1 | 2 - 10 |
| No. 200 | 1.2 | 1.0 | |
| Pan | 1.0 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 65 feet

| | | | |
|--------------------------------------|------|-------------|--|
| Percent Gravel + 1.5 inch | 2.9 | | |
| Percent Gravel 1.5 to 0.75 inches | 3.3 | | |
| Percent Gravel 0.75 inch to #4 sieve | 11.9 | | |
| Total Percent Gravel | | 18.2 | |

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 | 12.1 | 1.9 | 4.1 | 6.1 | 39.8 |
| 10 - 15 | 7.3 | 1.0 | 1.8 | 4.6 | 23.3 |
| 15 - 20 | 6.4 | 0.8 | 1.9 | 3.7 | 26.9 |
| 20 - 25 | 17.5 | 2.7 | 3.1 | 11.7 | 27.5 |
| 25 - 30 | 29.7 | 7.9 | 4.7 | 17.2 | 35.0 |
| 30 - 35 | 23.0 | 3.9 | 4.6 | 14.4 | 34.3 |
| 35 - 40 | 29.7 | 14.5 | 4.3 | 11.0 | 29.1 |
| 40 - 45 | 12.9 | 2.3 | 3.3 | 7.2 | 24.5 |
| 45 - 50 | 21.5 | 0.0 | 5.5 | 16.0 | 24.8 |
| 50 - 55 | 19.2 | 0.7 | 4.1 | 14.3 | 22.7 |
| 55 - 60 | 23.8 | 0.0 | 1.1 | 22.7 | 22.4 |
| 60 - 65 | 17.2 | 0.0 | 0.8 | 16.4 | 23.4 |

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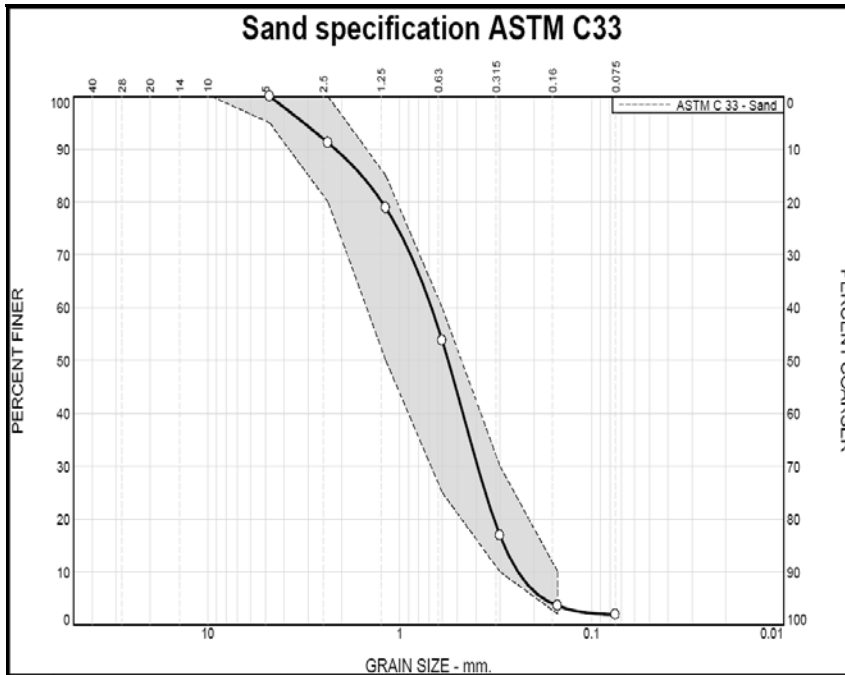
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. I3400

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 65 feet



| Sieve | Wt. % Ret. | % Passing | ASTM C33 |
|---------|------------|-----------|----------|
| No. 4 | 0.0 | 100.0 | 95 - 100 |
| No. 8 | 8.8 | 91.2 | 80 - 100 |
| No. 16 | 12.3 | 78.9 | 50 - 85 |
| No. 30 | 25.1 | 53.8 | 25 - 60 |
| No. 50 | 36.9 | 16.9 | 10 - 30 |
| No. 100 | 13.3 | 3.6 | 2 - 10 |
| No. 200 | 1.7 | 1.9 | |
| Pan | 1.9 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 65 feet

| | | | |
|--------------------------------------|-----|-------------|--|
| Percent Gravel + 1.5 inch | 3.9 | | |
| Percent Gravel 1.5 to 0.75 inches | 3.5 | | |
| Percent Gravel 0.75 inch to #4 sieve | 9.5 | | |
| Total Percent Gravel | | 16.9 | |

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 - 15 | 6.6 | 0.0 | 0.9 | 5.7 | 28.6 |
| 15 - 25 | 4.7 | 0.0 | 0.6 | 4.1 | 28.4 |
| 25 - 30 | 8.0 | 0.0 | 1.8 | 6.2 | 29.9 |
| 30 - 35 | 26.8 | 7.1 | 6.8 | 12.8 | 29.4 |
| 35 - 40 | 24.7 | 3.4 | 5.1 | 16.2 | 29.4 |
| 40 - 45 | 23.6 | 7.2 | 2.5 | 13.9 | 18.5 |
| 45 - 50 | 23.5 | 8.3 | 6.7 | 8.4 | 30.3 |
| 50 - 55 | 25.8 | 7.6 | 5.0 | 13.2 | 30.2 |
| 55 - 60 | 31.4 | 12.9 | 6.0 | 12.4 | 40.7 |
| 60 - 65 | 16.8 | 0.6 | 5.0 | 11.2 | 28.3 |

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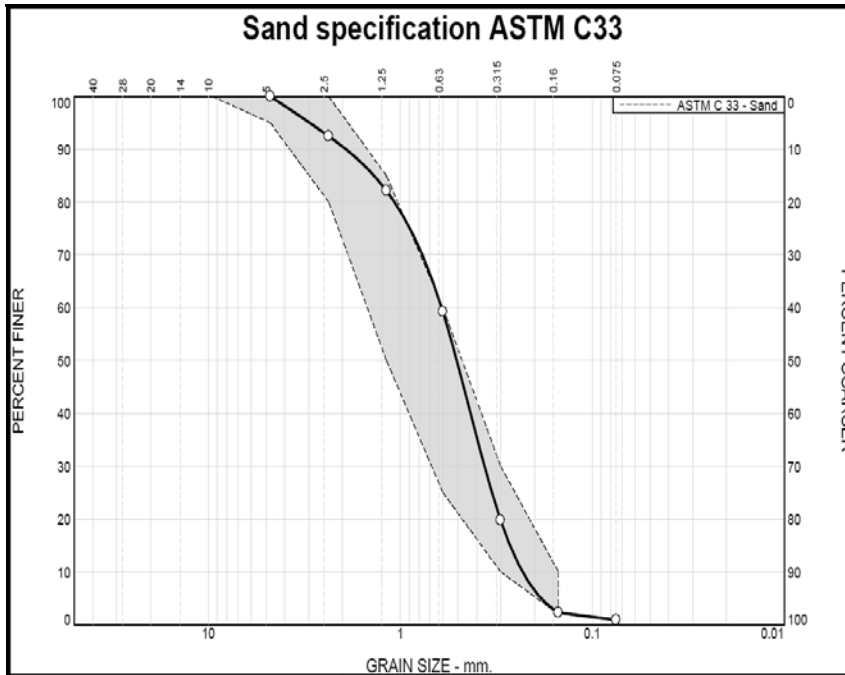
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. I3600

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 55 feet



| Sieve | Wt. % Ret. | % Passing | ASTM C33 |
|---------|------------|-----------|----------|
| No. 4 | 0.0 | 100.0 | 95 - 100 |
| No. 8 | 7.5 | 92.5 | 80 - 100 |
| No. 16 | 10.3 | 82.1 | 50 - 85 |
| No. 30 | 22.9 | 59.2 | 25 - 60 |
| No. 50 | 39.5 | 19.8 | 10 - 30 |
| No. 100 | 17.5 | 2.3 | 2 - 10 |
| No. 200 | 1.4 | 0.9 | |
| Pan | 0.9 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 55 feet

| | | | |
|--------------------------------------|-----|-------------|--|
| Percent Gravel + 1.5 inch | 3.7 | | |
| Percent Gravel 1.5 to 0.75 inches | 3.6 | | |
| Percent Gravel 0.75 inch to #4 sieve | 8.7 | | |
| Total Percent Gravel | | 16.1 | |

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 - 15 | 3.8 | 0.0 | 0.4 | 3.4 | 31.5 |
| 15 - 25 | 5.9 | 0.0 | 1.5 | 4.4 | 31.3 |
| 25 - 30 | 20.2 | 5.4 | 5.8 | 9.0 | 30.9 |
| 30 - 35 | 20.3 | 2.7 | 6.0 | 11.6 | 35.8 |
| 35 - 40 | 37.5 | 18.1 | 7.6 | 11.8 | 40.0 |
| 40 - 45 | 24.4 | 5.4 | 5.0 | 14.0 | 28.3 |
| 45 - 50 | 23.7 | 4.4 | 3.7 | 15.6 | 32.7 |
| 50 - 55 | 17.7 | 2.2 | 4.6 | 10.9 | 33.8 |

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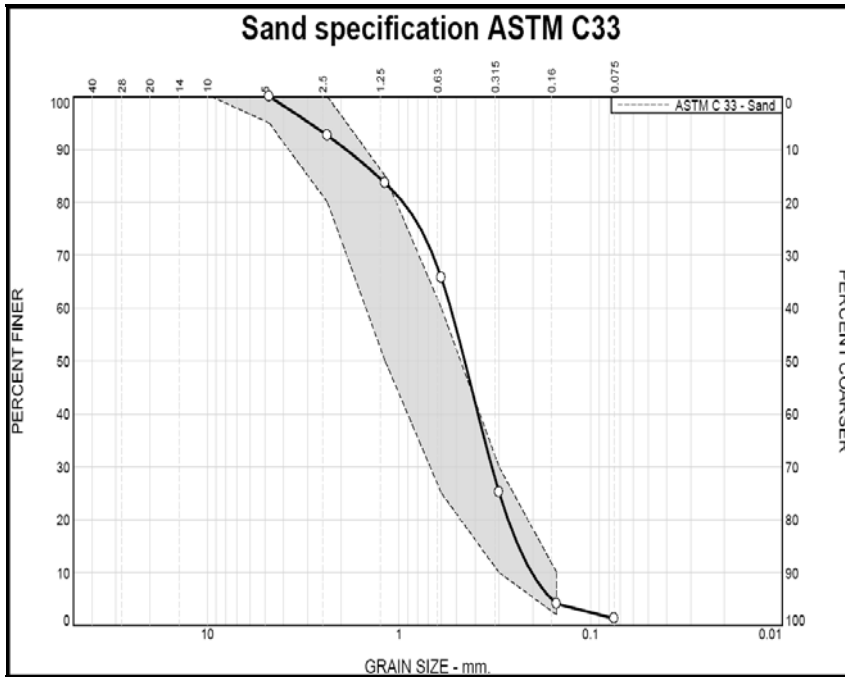
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. I3800

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 0.5 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 | 9.0 | 83.6 | 50 - 85 |
| No. 30 | 17.9 | 65.7 | 25 - 60 |
| No. 50 | 40.6 | 25.2 | 10 - 30 |
| No. 100 | 21.1 | 4.1 | 2 - 10 |
| No. 200 | 2.8 | 1.3 | |
| Pan | 1.3 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 0.5 to 65 feet

| | | | |
|--------------------------------------|------|-------------|--|
| Percent Gravel + 1.5 inch | 4.2 | | |
| Percent Gravel 1.5 to 0.75 inches | 4.2 | | |
| Percent Gravel 0.75 inch to #4 sieve | 10.9 | | |
| Total Percent Gravel | | 19.4 | |

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 | |
| 0.5 - 10 | 8.2 | 0.9 | 1.7 | 5.6 | 29.7 |
| 10 - 15 | 6.9 | 0.0 | 2.2 | 4.7 | 28.7 |
| 15 - 20 | 5.9 | 0.0 | 1.7 | 4.1 | 26.4 |
| 20 - 25 | 23.7 | 14.0 | 2.9 | 6.9 | 29.6 |
| 25 - 30 | 38.0 | 9.0 | 6.9 | 22.1 | 42.7 |
| 30 - 35 | 24.6 | 2.2 | 6.1 | 16.3 | 39.1 |
| 35 - 40 | 28.8 | 6.8 | 7.0 | 15.0 | 34.4 |
| 40 - 45 | 26.7 | 5.1 | 8.0 | 13.6 | 25.2 |
| 45 - 50 | 18.0 | 3.2 | 3.5 | 11.3 | 19.5 |
| 50 - 55 | 21.0 | 1.4 | 6.3 | 13.4 | 18.7 |
| 55 - 60 | 19.8 | 6.0 | 2.6 | 11.1 | 27.1 |
| 60 - 65 | 21.4 | 5.4 | 4.2 | 11.8 | 26.0 |

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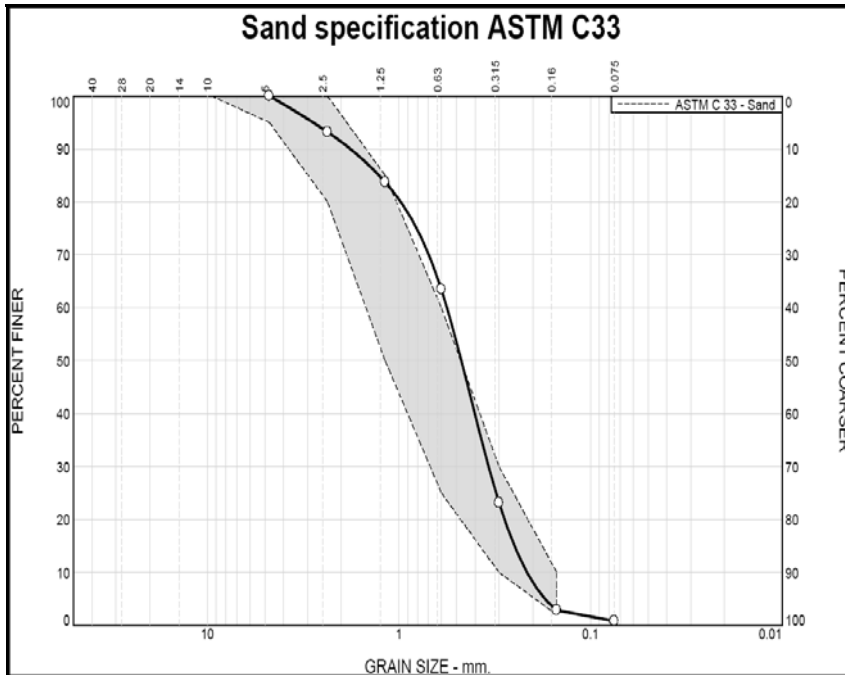
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. II0100

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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 | 6.8 | 93.2 | 80 - 100 |
| No. 16 | 9.5 | 83.7 | 50 - 85 |
| No. 30 | 20.3 | 63.5 | 25 - 60 |
| No. 50 | 40.3 | 23.1 | 10 - 30 |
| No. 100 | 20.3 | 2.9 | 2 - 10 |
| No. 200 | 2.1 | 0.8 | |
| Pan | 0.8 | | |

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

| | | | |
|--------------------------------------|------|-------------|--|
| Percent Gravel + 1.5 inch | 1.4 | | |
| Percent Gravel 1.5 to 0.75 inches | 2.5 | | |
| Percent Gravel 0.75 inch to #4 sieve | 10.2 | | |
| Total Percent Gravel | | 14.1 | |

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

| Interval | PERCENT GRAVEL | | | Sample Wt. (lbs.) |
|----------|----------------|------------|------------------|-------------------|
| | Total | + 1.5 inch | 1.5 to 0.75 inch | |
| 3 - 10 | 12.3 | 3.8 | 1.0 | 30.8 |
| 10 - 15 | 6.6 | 0.0 | 2.2 | 26.3 |
| 15 - 20 | 4.6 | 0.0 | 2.0 | 21.5 |
| 20 - 25 | 8.7 | 0.0 | 2.5 | 21.8 |
| 25 - 30 | 33.5 | 0.0 | 3.1 | 34.9 |
| 30 - 35 | 19.5 | 2.1 | 3.9 | 27.8 |
| 35 - 40 | 14.1 | 2.9 | 3.3 | 27.2 |

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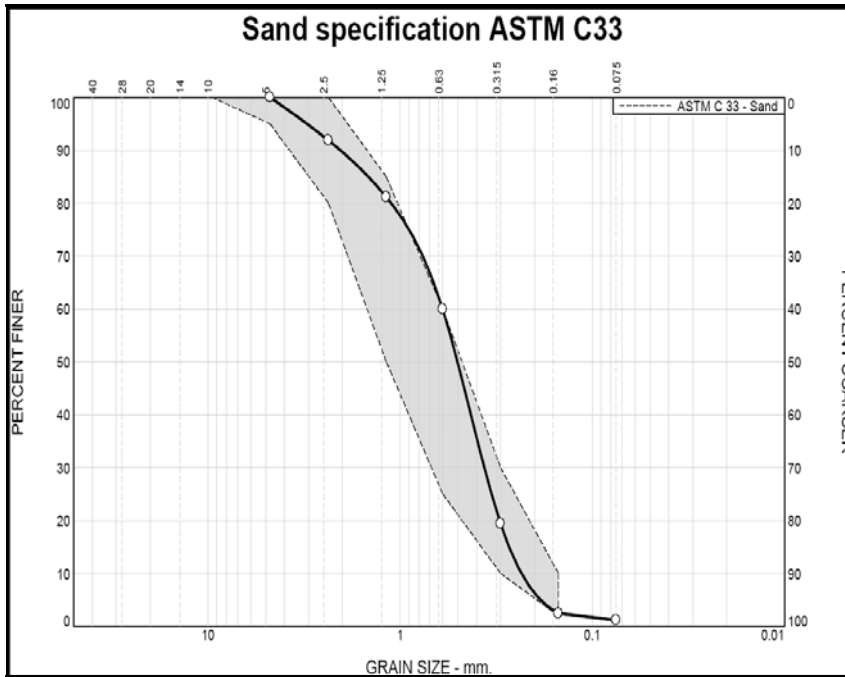
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. I10300

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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 | 8.2 | 91.8 | 80 - 100 |
| No. 16 | 10.8 | 81.1 | 50 - 85 |
| No. 30 | 21.3 | 59.8 | 25 - 60 |
| No. 50 | 40.7 | 19.1 | 10 - 30 |
| No. 100 | 17.0 | 2.1 | 2 - 10 |
| No. 200 | 1.3 | 0.8 | |
| Pan | 0.8 | | |

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

| | | | |
|--------------------------------------|------|-------------|--|
| Percent Gravel + 1.5 inch | 2.4 | | |
| Percent Gravel 1.5 to 0.75 inches | 3.8 | | |
| Percent Gravel 0.75 inch to #4 sieve | 10.2 | | |
| Total Percent Gravel | | 16.4 | |

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

| Interval | PERCENT GRAVEL | | | Sample Wt. (lbs.) |
|----------|----------------|------------|------------------|-------------------|
| | Total | + 1.5 inch | 1.5 to 0.75 inch | |
| 3 - 10 | 17.7 | 1.4 | 3.4 | 41.1 |
| 10 - 15 | 13.7 | 3.4 | 4.5 | 23.1 |
| 15 - 20 | 12.4 | 1.6 | 2.9 | 27.7 |
| 20 - 25 | 21.2 | 0.0 | 4.9 | 29.3 |
| 25 - 30 | 14.6 | 0.0 | 2.1 | 25.8 |
| 30 - 35 | 7.4 | 0.0 | 1.4 | 19.1 |
| 35 - 40 | 18.5 | 4.7 | 5.1 | 21.6 |
| 40 - 45 | 24.8 | 8.3 | 6.2 | 27.8 |

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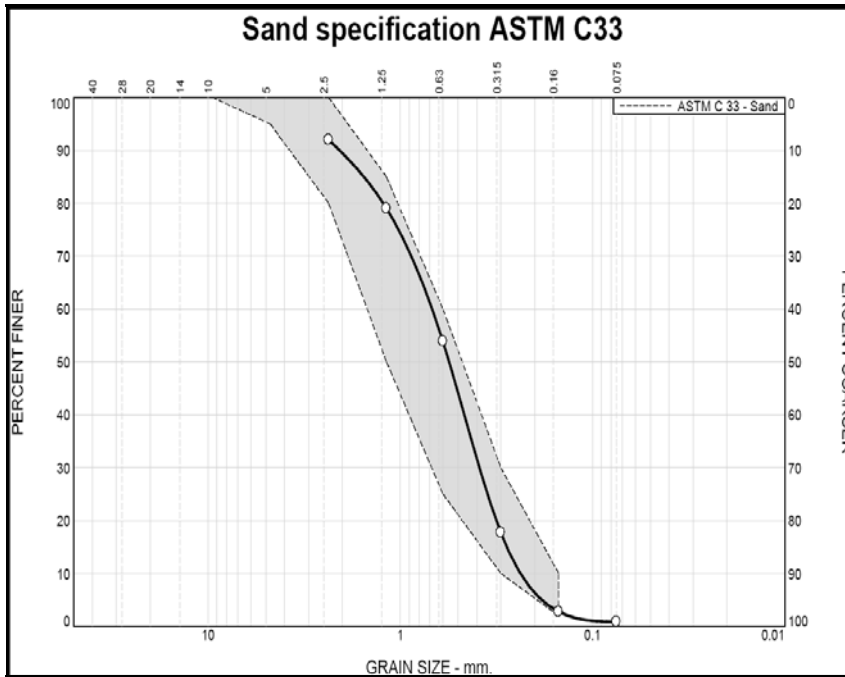
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. I10400

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 1.5 to 37 feet



| Sieve | Wt. % Ret. | % Passing | ASTM C33 |
|---------|------------|-----------|----------|
| No. 4 | 0.0 | 100.0 | 95 - 100 |
| No. 8 | 8.0 | 92.0 | 80 - 100 |
| No. 16 | 13.0 | 79.0 | 50 - 85 |
| No. 30 | 25.2 | 53.9 | 25 - 60 |
| No. 50 | 36.1 | 17.7 | 10 - 30 |
| No. 100 | 15.0 | 2.7 | 2 - 10 |
| No. 200 | 1.9 | 0.9 | |
| Pan | 0.9 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 1.5 to 37 feet

| | | | |
|--------------------------------------|------|-------------|--|
| Percent Gravel + 1.5 inch | 12.7 | | |
| Percent Gravel 1.5 to 0.75 inches | 6.3 | | |
| Percent Gravel 0.75 inch to #4 sieve | 13.3 | | |
| Total Percent Gravel | | 32.3 | |

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

| Interval | PERCENT GRAVEL | | | Sample Wt. (lbs.) |
|----------|----------------|------------|------------------|-------------------|
| | Total | + 1.5 inch | 1.5 to 0.75 inch | |
| 1.5 - 5 | 5.6 | 0.0 | 2.0 | 15.4 |
| 5 - 10 | 24.9 | 5.2 | 7.5 | 31.3 |
| 10 - 15 | 32.5 | 13.1 | 8.0 | 29.9 |
| 15 - 20 | 39.9 | 18.1 | 10.3 | 36.5 |
| 20 - 25 | 42.0 | 15.0 | 7.8 | 40.7 |
| 25 - 30 | 32.7 | 15.4 | 5.2 | 38.9 |
| 30 - 37 | 38.1 | 16.7 | 3.3 | 59.7 |

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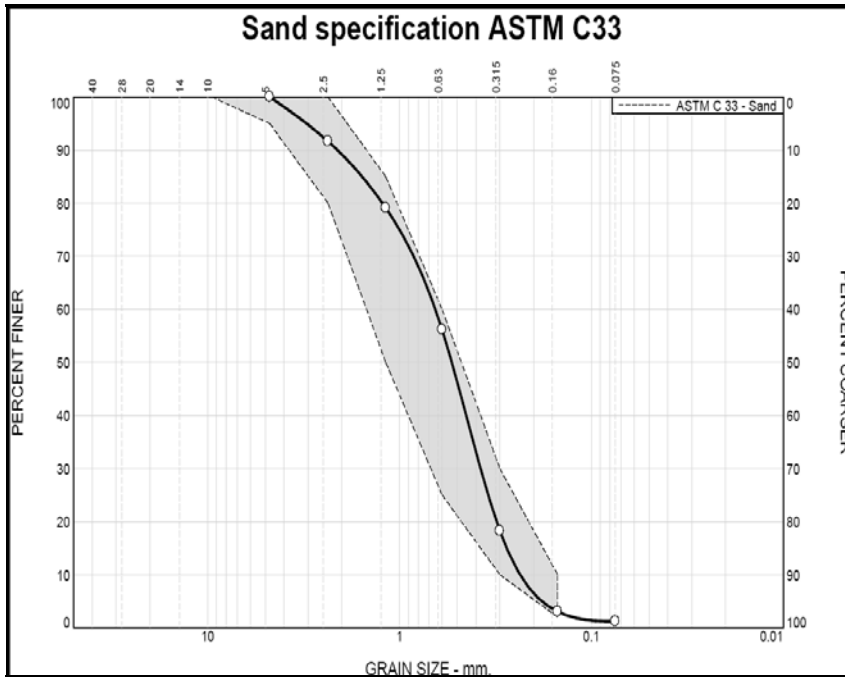
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HOLE NO. II0500

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 1 to 45 feet



| Sieve | Wt. % Ret. | % Passing | ASTM C33 |
|---------|------------|-----------|----------|
| No. 4 | 0.0 | 100.0 | 95 - 100 |
| No. 8 | 8.3 | 91.7 | 80 - 100 |
| No. 16 | 12.6 | 79.1 | 50 - 85 |
| No. 30 | 22.9 | 56.2 | 25 - 60 |
| No. 50 | 37.9 | 18.3 | 10 - 30 |
| No. 100 | 15.2 | 3.0 | 2 - 10 |
| No. 200 | 1.8 | 1.2 | |
| Pan | 1.2 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 1 to 45 feet

| | | | |
|--------------------------------------|------|-----------------------------|-------------|
| Percent Gravel + 1.5 inch | 5.7 | | |
| Percent Gravel 1.5 to 0.75 inches | 4.7 | | |
| Percent Gravel 0.75 inch to #4 sieve | 11.5 | | |
| | | Total Percent Gravel | 21.8 |

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 | |
| 1 - 5 | 24.6 | 2.5 | 5.9 | 16.2 | 21.3 |
| 5 - 10 | 18.6 | 2.5 | 4.6 | 11.6 | 29.5 |
| 10 - 15 | 20.5 | 1.4 | 5.0 | 14.0 | 29.1 |
| 15 - 20 | 19.9 | 10.8 | 2.9 | 6.2 | 23.5 |
| 20 - 25 | 33.6 | 18.9 | 6.3 | 8.4 | 30.3 |
| 25 - 30 | 26.7 | 6.9 | 5.4 | 14.3 | 31.1 |
| 30 - 35 | 20.8 | 0.0 | 4.9 | 16.0 | 23.3 |
| 35 - 40 | 19.2 | 5.5 | 4.4 | 9.3 | 22.3 |
| 40 - 45 | 12.9 | 2.2 | 2.7 | 8.0 | 20.4 |

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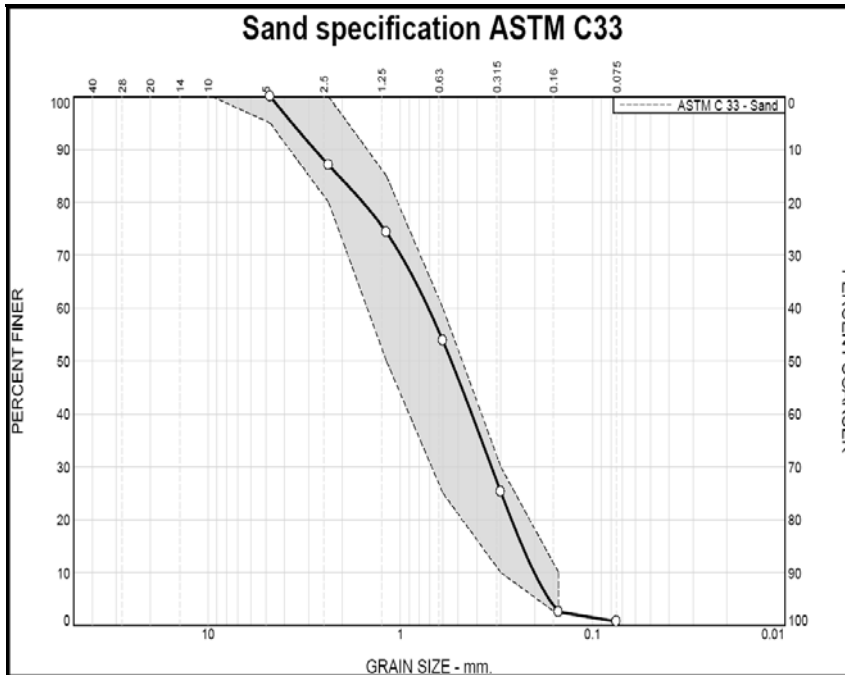
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3.5 to 45 feet



| Sieve | Wt. % Ret. | % Passing | ASTM C33 |
|---------|------------|-----------|----------|
| No. 4 | 0.0 | 100.0 | 95 - 100 |
| No. 8 | 12.9 | 87.1 | 80 - 100 |
| No. 16 | 12.7 | 74.3 | 50 - 85 |
| No. 30 | 20.5 | 53.8 | 25 - 60 |
| No. 50 | 28.6 | 25.3 | 10 - 30 |
| No. 100 | 22.7 | 2.6 | 2 - 10 |
| No. 200 | 1.8 | 0.8 | |
| Pan | 0.8 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3.5 to 45 feet

| | | | |
|--------------------------------------|------|-----------------------------|-------------|
| Percent Gravel + 1.5 inch | 4.4 | | |
| Percent Gravel 1.5 to 0.75 inches | 5.8 | Total Percent Gravel | 27.8 |
| Percent Gravel 0.75 inch to #4 sieve | 17.6 | | |

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 | |
| 3.5 - 10 | 5.9 | 0.0 | 1.6 | 4.3 | 22.2 |
| 10 - 15 | 19.3 | 11.8 | 3.4 | 4.2 | 18.7 |
| 15 - 20 | 28.2 | 12.1 | 5.9 | 10.1 | 18.2 |
| 20 - 25 | 34.8 | 6.9 | 8.5 | 19.4 | 22.5 |
| 25 - 30 | 38.9 | 4.1 | 11.4 | 23.3 | 33.4 |
| 30 - 35 | 35.4 | 0.0 | 9.1 | 26.3 | 26.5 |
| 35 - 40 | 30.6 | 0.8 | 3.3 | 26.5 | 28.1 |
| 40 - 45 | 36.2 | 0.8 | 4.3 | 31.0 | 25.3 |

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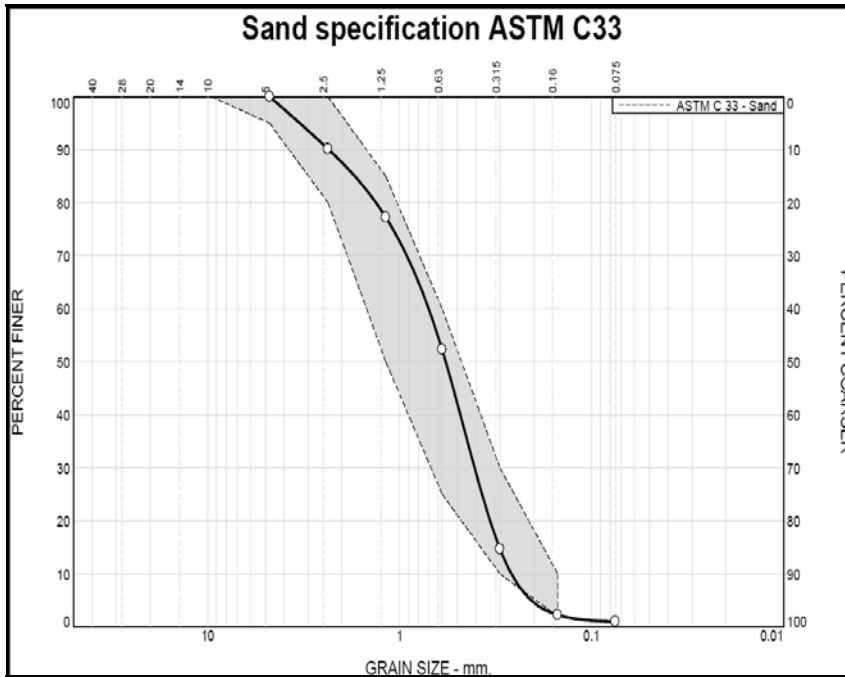
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HOLE NO. II0900

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 7 to 42 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 | 12.9 | 77.3 | 50 - 85 |
| No. 30 | 25.0 | 52.3 | 25 - 60 |
| No. 50 | 37.7 | 14.6 | 10 - 30 |
| No. 100 | 12.4 | 2.2 | 2 - 10 |
| No. 200 | 1.2 | 1.0 | |
| Pan | 1.0 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 7 to 42 feet

| | | | |
|--------------------------------------|------|-------------|--|
| Percent Gravel + 1.5 inch | 1.8 | | |
| Percent Gravel 1.5 to 0.75 inches | 4.6 | | |
| Percent Gravel 0.75 inch to #4 sieve | 14.7 | | |
| Total Percent Gravel | | 21.0 | |

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 | |
| 7 - 10 | 7.2 | 0.0 | 1.9 | 5.2 | 23.8 |
| 10 - 15 | 5.9 | 1.0 | 1.3 | 3.5 | 21.2 |
| 15 - 20 | 14.3 | 1.0 | 4.8 | 8.5 | 25.2 |
| 20 - 25 | 30.4 | 9.1 | 8.0 | 13.3 | 25.0 |
| 25 - 30 | 28.7 | 1.4 | 6.8 | 20.5 | 27.6 |
| 30 - 35 | 25.4 | 0.0 | 3.2 | 22.2 | 21.5 |
| 35 - 42 | 27.4 | 0.0 | 4.9 | 22.5 | 26.3 |

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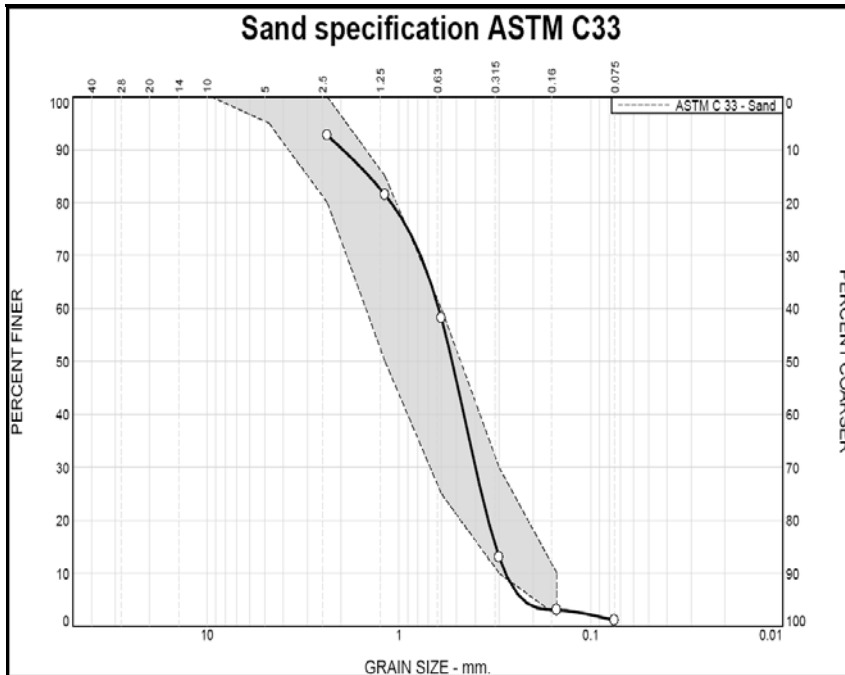
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HOLE NO. II1000

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 1 to 36 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 | 81.5 | 50 - 85 |
| No. 30 | 23.3 | 58.2 | 25 - 60 |
| No. 50 | 45.2 | 13.0 | 10 - 30 |
| No. 100 | 9.9 | 3.1 | 2 - 10 |
| No. 200 | 2.0 | 1.1 | |
| Pan | 1.1 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 1 to 36 feet

| | | | |
|--------------------------------------|------|-----------------------------|-------------|
| Percent Gravel + 1.5 inch | 2.6 | | |
| Percent Gravel 1.5 to 0.75 inches | 4.9 | | |
| Percent Gravel 0.75 inch to #4 sieve | 15.9 | | |
| | | Total Percent Gravel | 23.3 |

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 | |
| 1 - 10 | 9.9 | 3.2 | 2.4 | 4.2 | 25.6 |
| 10 - 15 | 11.4 | 0.8 | 2.3 | 8.2 | 31.3 |
| 15 - 20 | 26.3 | 1.6 | 6.1 | 18.6 | 31.9 |
| 20 - 25 | 28.6 | 1.9 | 4.0 | 22.7 | 36.3 |
| 25 - 30 | 34.4 | 1.4 | 5.3 | 27.6 | 38.7 |
| 30 - 36 | 37.1 | 5.4 | 9.8 | 21.9 | 27.7 |

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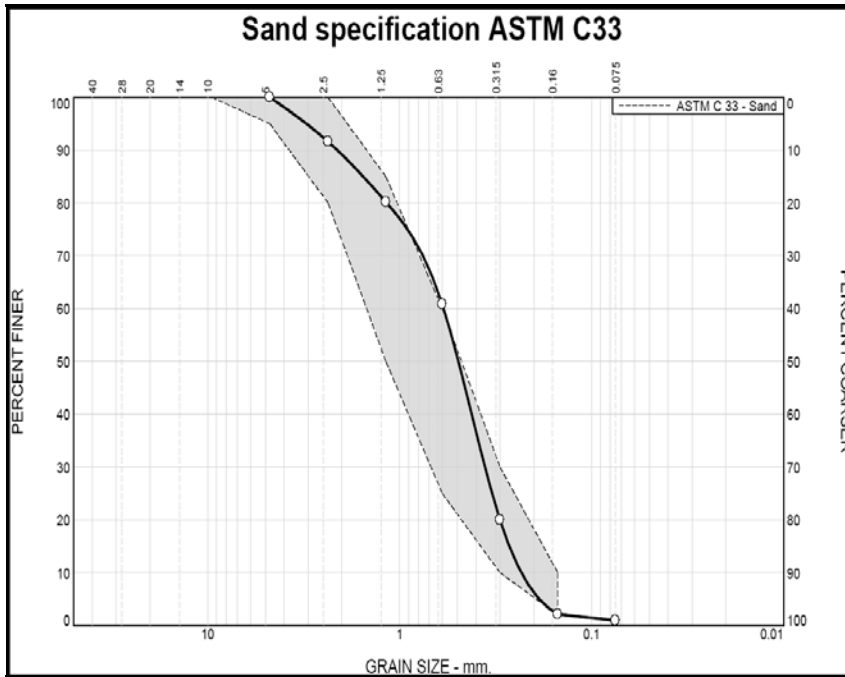
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 38 feet



| Sieve | Wt. % Ret. | % Passing | ASTM C33 |
|---------|------------|-----------|----------|
| No. 4 | 0.0 | 100.0 | 95 - 100 |
| No. 8 | 8.4 | 91.6 | 80 - 100 |
| No. 16 | 11.4 | 80.2 | 50 - 85 |
| No. 30 | 19.4 | 60.8 | 25 - 60 |
| No. 50 | 40.8 | 20.0 | 10 - 30 |
| No. 100 | 17.8 | 2.1 | 2 - 10 |
| No. 200 | 1.2 | 0.9 | |
| Pan | 0.9 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 38 feet

| | | |
|--------------------------------------|------|----------------------------------|
| Percent Gravel + 1.5 inch | 0.0 | |
| Percent Gravel 1.5 to 0.75 inches | 3.3 | Total Percent Gravel 15.5 |
| Percent Gravel 0.75 inch to #4 sieve | 12.2 | |

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

| Interval | PERCENT GRAVEL | | | Sample Wt. (lbs.) |
|----------|----------------|------------|------------------|-------------------|
| | Total | + 1.5 inch | 1.5 to 0.75 inch | |
| 3 - 10 | 11.3 | 0.0 | 2.8 | 32.3 |
| 10 - 15 | 4.6 | 0.0 | 0.6 | 22.3 |
| 15 - 20 | 1.4 | 0.0 | 0.0 | 21.4 |
| 20 - 25 | 1.9 | 0.0 | 0.3 | 18.9 |
| 25 - 30 | 31.6 | 0.0 | 5.8 | 30.3 |
| 30 - 38 | 33.4 | 0.0 | 7.8 | 15.0 |

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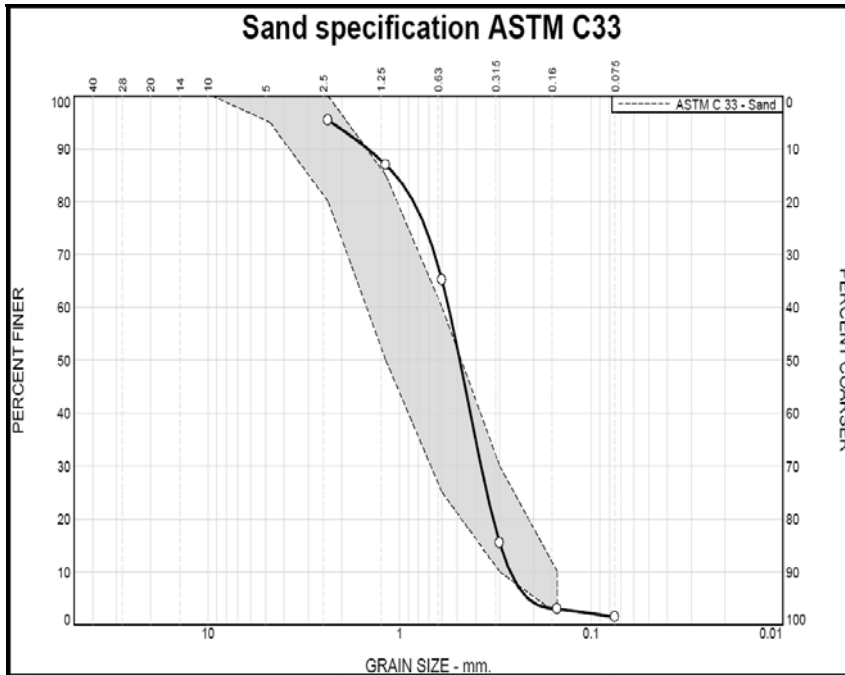
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. II1200

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 6 to 33 feet



| Sieve | Wt. % Ret. | % Passing | ASTM C33 |
|---------|------------|-----------|----------|
| No. 4 | 0.0 | 100.0 | 95 - 100 |
| No. 8 | 4.6 | 95.4 | 80 - 100 |
| No. 16 | 8.5 | 86.9 | 50 - 85 |
| No. 30 | 21.8 | 65.1 | 25 - 60 |
| No. 50 | 49.7 | 15.4 | 10 - 30 |
| No. 100 | 12.5 | 2.9 | 2 - 10 |
| No. 200 | 1.5 | 1.4 | |
| Pan | 1.4 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 6 to 33 feet

| | | | |
|--------------------------------------|-----|-----------------------------|-------------|
| Percent Gravel + 1.5 inch | 8.4 | | |
| Percent Gravel 1.5 to 0.75 inches | 5.9 | Total Percent Gravel | 22.7 |
| Percent Gravel 0.75 inch to #4 sieve | 8.5 | | |

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 | |
| 6 - 10 | 14.9 | 4.1 | 3.2 | 7.6 | 30.0 |
| 10 - 15 | 23.4 | 8.8 | 6.1 | 8.5 | 34.3 |
| 15 - 20 | 28.3 | 16.4 | 5.1 | 6.8 | 36.1 |
| 20 - 25 | 17.9 | 6.5 | 4.2 | 7.2 | 21.8 |
| 25 - 33 | 25.8 | 6.6 | 8.6 | 10.7 | 36.0 |

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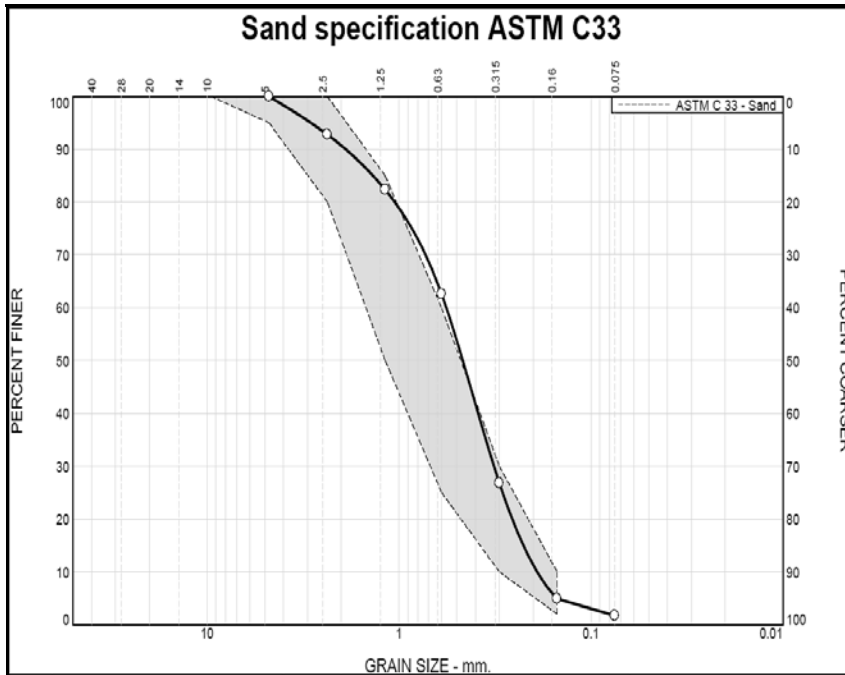
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HOLE NO. II1300

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 30 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 | 10.4 | 82.3 | 50 - 85 |
| No. 30 | 19.7 | 62.6 | 25 - 60 |
| No. 50 | 35.8 | 26.8 | 10 - 30 |
| No. 100 | 21.9 | 4.9 | 2 - 10 |
| No. 200 | 3.2 | 1.7 | |
| Pan | 1.7 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 30 feet

| | | | |
|--------------------------------------|------|-------------|--|
| Percent Gravel + 1.5 inch | 4.3 | | |
| Percent Gravel 1.5 to 0.75 inches | 4.4 | | |
| Percent Gravel 0.75 inch to #4 sieve | 11.3 | | |
| 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 | |
| 3 - 10 | 11.4 | 3.2 | 1.7 | 23.5 |
| 10 - 15 | 18.6 | 7.8 | 4.8 | 23.4 |
| 15 - 20 | 24.4 | 2.2 | 6.6 | 28.1 |
| 20 - 25 | 31.1 | 4.4 | 7.1 | 20.9 |
| 25 - 30 | 18.5 | 4.5 | 3.1 | 31.1 |

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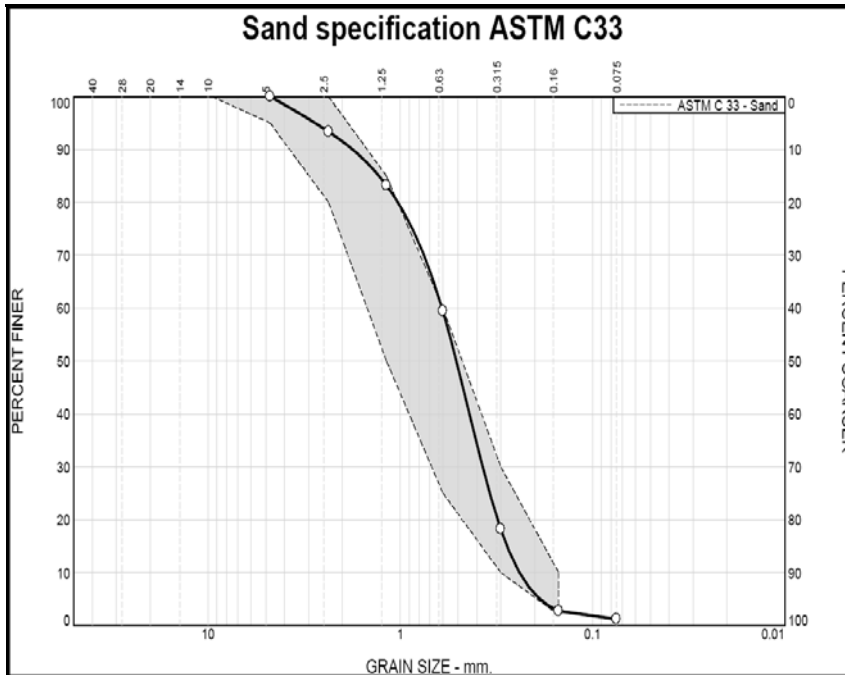
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. II1700

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 35 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 | 14.1 | 78.7 | 50 - 85 |
| No. 30 | 27.2 | 51.5 | 25 - 60 |
| No. 50 | 34.9 | 16.5 | 10 - 30 |
| No. 100 | 14.0 | 2.6 | 2 - 10 |
| No. 200 | 1.6 | 1.0 | |
| Pan | 1.0 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 35 feet

| | | | |
|--------------------------------------|------|-------------|--|
| Percent Gravel + 1.5 inch | 1.5 | | |
| Percent Gravel 1.5 to 0.75 inches | 4.6 | | |
| Percent Gravel 0.75 inch to #4 sieve | 17.0 | | |
| Total Percent Gravel | | 23.1 | |

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 - 10 | 10.7 | 1.8 | 3.3 | 5.6 | 19.6 |
| 10 - 15 | 10.4 | 0.0 | 1.7 | 8.7 | 33.2 |
| 15 - 20 | 9.8 | 0.8 | 2.6 | 6.4 | 22.1 |
| 20 - 25 | 15.3 | 3.9 | 3.0 | 8.4 | 29.0 |
| 25 - 30 | 36.4 | 0.0 | 6.6 | 29.8 | 38.1 |
| 30 - 35 | 33.1 | 2.9 | 9.0 | 21.2 | 35.4 |
| 35 - 40 | 41.1 | 0.0 | 6.5 | 34.7 | 32.2 |
| 40 - 43 | 35.6 | 3.7 | 3.9 | 28.0 | 28.3 |

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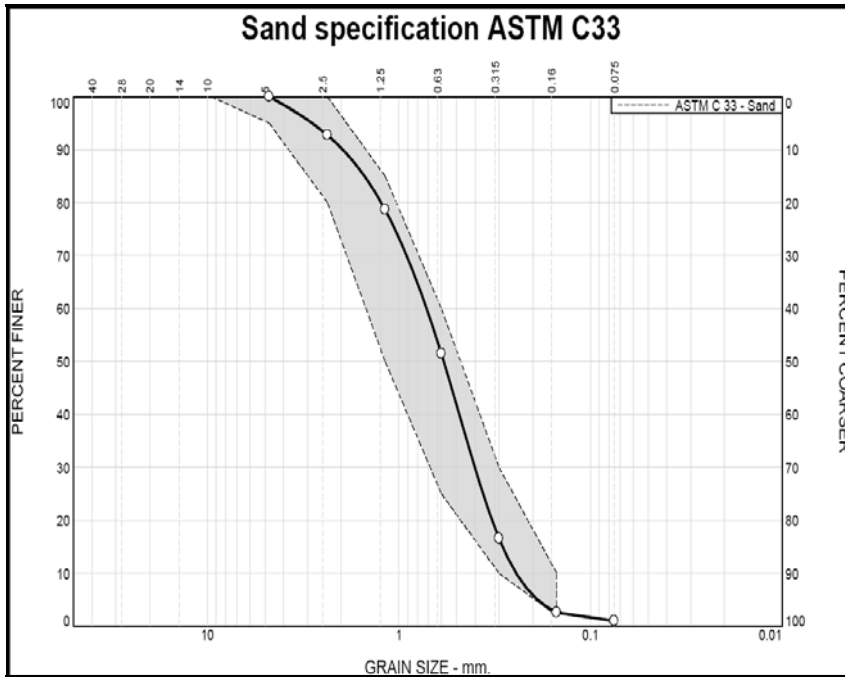
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. II1900

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 45 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 | 10.1 | 83.2 | 50 - 85 |
| No. 30 | 23.8 | 59.4 | 25 - 60 |
| No. 50 | 41.3 | 18.2 | 10 - 30 |
| No. 100 | 15.5 | 2.7 | 2 - 10 |
| No. 200 | 1.5 | 1.2 | |
| Pan | 1.2 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 45 feet

| | | | |
|--------------------------------------|------|-------------|--|
| Percent Gravel + 1.5 inch | 1.4 | | |
| Percent Gravel 1.5 to 0.75 inches | 2.6 | | |
| Percent Gravel 0.75 inch to #4 sieve | 10.8 | | |
| Total Percent Gravel | | 14.8 | |

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

| Interval | PERCENT GRAVEL | | | Sample Wt. (lbs.) |
|----------|----------------|------------|------------------|-------------------|
| | Total | + 1.5 inch | 1.5 to 0.75 inch | |
| 4 - 15 | 10.2 | 0.6 | 2.5 | 33.7 |
| 15 - 20 | 15.2 | 4.4 | 3.2 | 36.1 |
| 20 - 25 | 14.9 | 0.0 | 2.5 | 25.8 |
| 25 - 30 | 21.3 | 0.0 | 1.8 | 37.7 |
| 30 - 35 | 17.8 | 2.8 | 3.0 | 36.8 |

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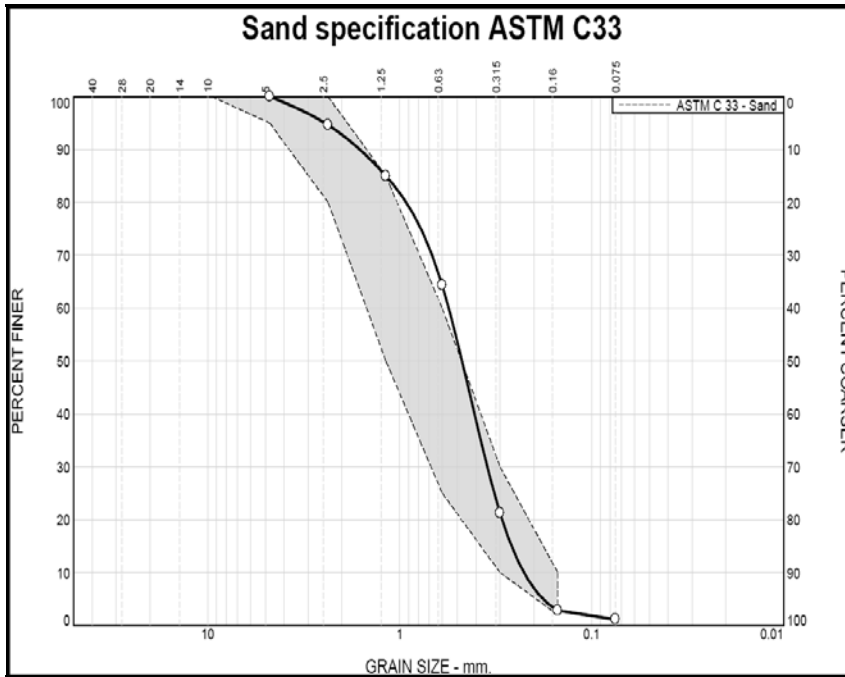
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HOLE NO. I12100

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 20 to 40 feet



| Sieve | Wt. % Ret. | % Passing | ASTM C33 |
|---------|------------|-----------|----------|
| No. 4 | 0.0 | 100.0 | 95 - 100 |
| No. 8 | 5.4 | 94.6 | 80 - 100 |
| No. 16 | 9.6 | 85.0 | 50 - 85 |
| No. 30 | 20.7 | 64.3 | 25 - 60 |
| No. 50 | 43.1 | 21.2 | 10 - 30 |
| No. 100 | 18.4 | 2.8 | 2 - 10 |
| No. 200 | 1.7 | 1.1 | |
| Pan | 1.1 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 20 to 40 feet

| | | | |
|--------------------------------------|------|-----------------------------|-------------|
| Percent Gravel + 1.5 inch | 10.2 | | |
| Percent Gravel 1.5 to 0.75 inches | 5.3 | Total Percent Gravel | 23.9 |
| Percent Gravel 0.75 inch to #4 sieve | 8.4 | | |

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 | |
| 20 - 25 | 17.2 | 2.3 | 5.8 | 9.2 | 34.7 |
| 25 - 30 | 2.9 | 0.0 | 1.0 | 1.9 | 12.4 |
| 30 - 35 | 33.2 | 24.6 | 3.4 | 5.2 | 29.6 |
| 35 - 45 | 42.3 | 14.0 | 10.9 | 17.3 | 41.3 |

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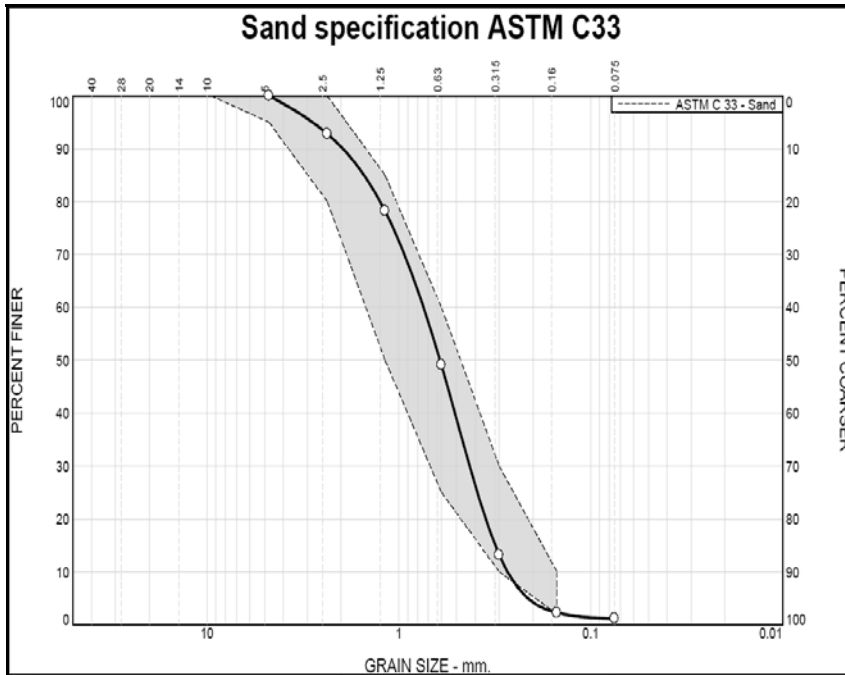
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HOLE NO. I12300

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 6 to 60 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 | 14.6 | 85.4 | 50 - 85 |
| No. 30 | 29.1 | 70.9 | 25 - 60 |
| No. 50 | 35.9 | 64.1 | 10 - 30 |
| No. 100 | 10.9 | 89.1 | 2 - 10 |
| No. 200 | 1.1 | 98.9 | |
| Pan | 1.1 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 6 to 60 feet

| | | | |
|--------------------------------------|------|-------------|--|
| Percent Gravel + 1.5 inch | 3.7 | | |
| Percent Gravel 1.5 to 0.75 inches | 5.0 | | |
| Percent Gravel 0.75 inch to #4 sieve | 13.0 | | |
| Total Percent Gravel | | 21.8 | |

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 | |
| 6 - 10 | 11.0 | 1.0 | 5.0 | 5.0 | 27.4 |
| 10 - 15 | 15.1 | 3.4 | 5.7 | 6.1 | 31.5 |
| 15 - 20 | 27.1 | 5.6 | 8.0 | 13.5 | 34.6 |
| 20 - 25 | 19.0 | 2.7 | 4.4 | 11.9 | 28.1 |
| 25 - 30 | 21.9 | 2.7 | 4.0 | 15.3 | 35.7 |
| 30 - 35 | 20.3 | 2.3 | 4.5 | 13.4 | 42.3 |
| 35 - 40 | 23.4 | 1.9 | 7.3 | 14.2 | 32.0 |
| 40 - 45 | 31.6 | 12.4 | 3.1 | 16.2 | 36.9 |
| 45 - 50 | 20.7 | 0.8 | 5.7 | 14.2 | 32.2 |
| 50 - 55 | 27.3 | 7.1 | 3.9 | 16.3 | 34.3 |
| 55 - 60 | 19.8 | 0.6 | 3.8 | 15.4 | 31.2 |

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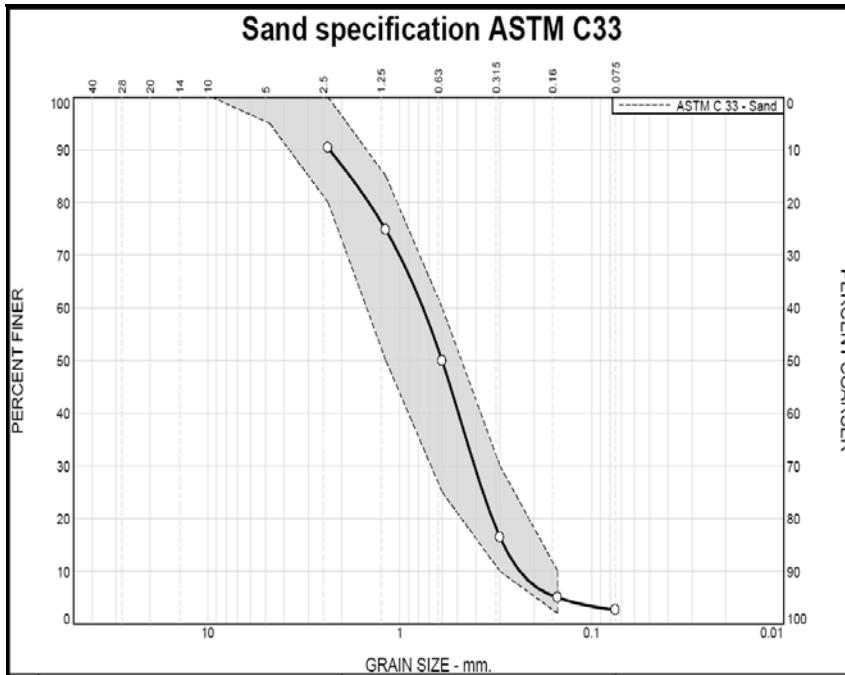
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. I12400

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 8 to 79 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 | 15.6 | 74.8 | 50 - 85 |
| No. 30 | 24.9 | 49.9 | 25 - 60 |
| No. 50 | 33.5 | 16.4 | 10 - 30 |
| No. 100 | 11.4 | 5.0 | 2 - 10 |
| No. 200 | 2.3 | 2.7 | |
| Pan | 2.7 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 8 to 79 feet

| | | | |
|--------------------------------------|------|-------------|--|
| Percent Gravel + 1.5 inch | 4.6 | | |
| Percent Gravel 1.5 to 0.75 inches | 4.4 | | |
| Percent Gravel 0.75 inch to #4 sieve | 14.1 | | |
| Total Percent Gravel | | 23.1 | |

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 | |
| 8 - 20 | 14.5 | 6.0 | 2.7 | 5.7 | 38.9 |
| 20 - 30 | 27.0 | 5.5 | 7.3 | 14.2 | 36.8 |
| 30 - 40 | 33.3 | 10.6 | 6.0 | 16.6 | 39.8 |
| 40 - 45 | 27.5 | 3.7 | 4.4 | 19.4 | 35.7 |
| 45 - 50 | 26.4 | 3.9 | 5.2 | 17.3 | 34.8 |
| 50 - 55 | 10.2 | 6.0 | 1.4 | 2.8 | 35.1 |
| 55 - 60 | 14.5 | 1.3 | 2.2 | 11.1 | 31.9 |
| 60 - 70 | 11.0 | 0.0 | 1.7 | 9.4 | 35.0 |
| 70 - 79 | 40.1 | 2.3 | 7.1 | 30.8 | 36.5 |

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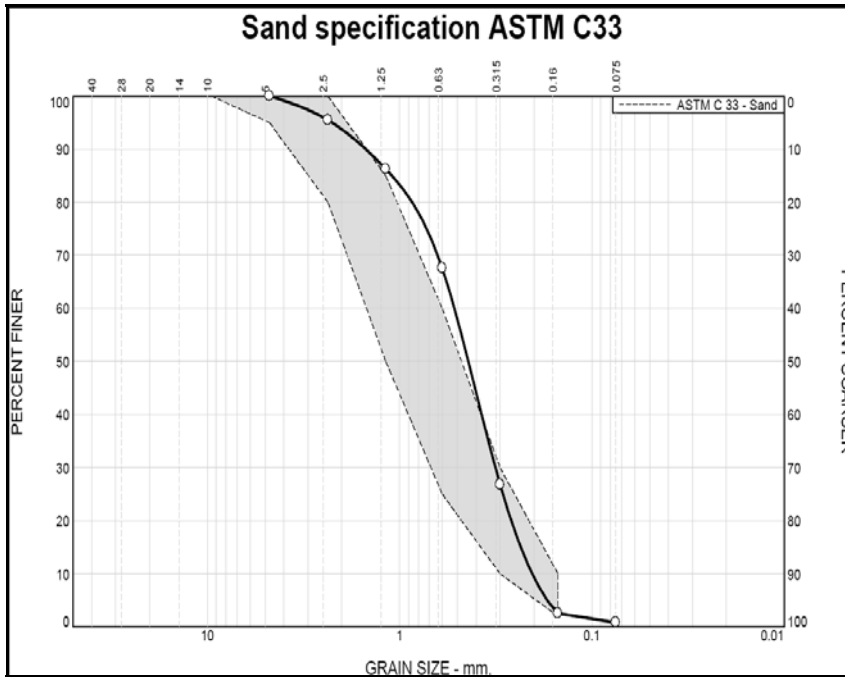
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. I12500

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 2 to 50 feet



| Sieve | Wt. % Ret. | % Passing | ASTM C33 |
|---------|------------|-----------|----------|
| No. 4 | 0.0 | 100.0 | 95 - 100 |
| No. 8 | 4.5 | 95.5 | 80 - 100 |
| No. 16 | 9.2 | 86.3 | 50 - 85 |
| No. 30 | 18.7 | 67.6 | 25 - 60 |
| No. 50 | 40.8 | 26.8 | 10 - 30 |
| No. 100 | 24.3 | 2.5 | 2 - 10 |
| No. 200 | 1.7 | 0.8 | |
| Pan | 0.8 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 2 to 50 feet

| | | | |
|--------------------------------------|-----|-------------|--|
| Percent Gravel + 1.5 inch | 5.9 | | |
| Percent Gravel 1.5 to 0.75 inches | 4.9 | | |
| Percent Gravel 0.75 inch to #4 sieve | 8.4 | | |
| Total Percent Gravel | | 19.2 | |

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

| Interval | PERCENT GRAVEL | | | Sample Wt. (lbs.) |
|----------|----------------|------------|------------------|-------------------|
| | Total | + 1.5 inch | 1.5 to 0.75 inch | |
| 2 - 15 | 11.6 | 1.6 | 3.6 | 39.7 |
| 15 - 25 | 12.5 | 4.4 | 4.5 | 31.8 |
| 25 - 30 | 23.7 | 7.0 | 6.6 | 37.7 |
| 30 - 35 | 26.7 | 10.1 | 6.0 | 31.0 |
| 35 - 40 | 26.0 | 6.2 | 6.0 | 40.9 |
| 40 - 45 | 31.4 | 14.6 | 5.7 | 39.0 |
| 45 - 50 | 21.2 | 5.7 | 4.7 | 46.8 |

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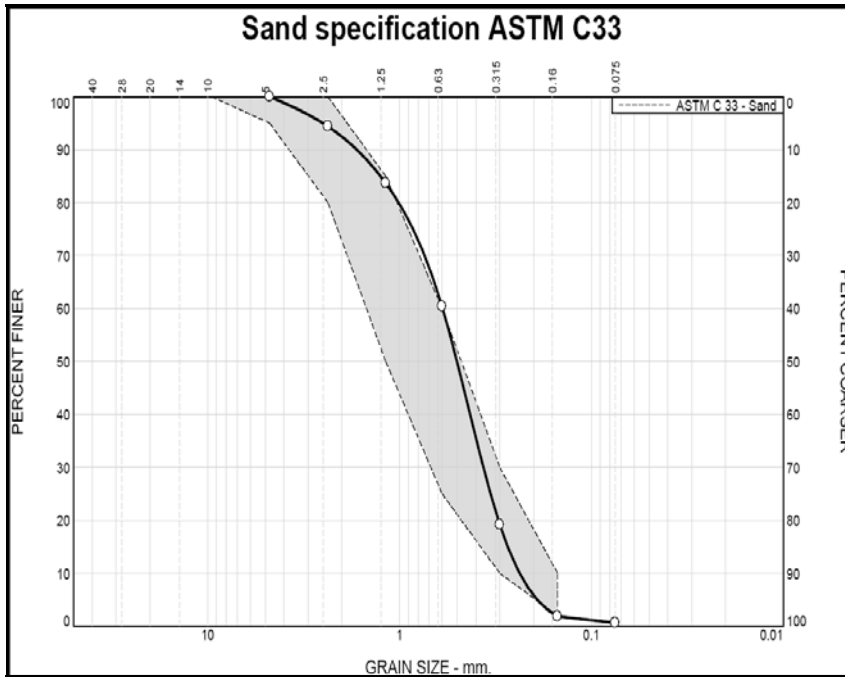
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HOLE NO. I13100

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 50 feet



| Sieve | Wt. % Ret. | % Passing | ASTM C33 |
|---------|------------|-----------|----------|
| No. 4 | 0.0 | 100.0 | 95 - 100 |
| No. 8 | 5.6 | 94.4 | 80 - 100 |
| No. 16 | 10.7 | 83.7 | 50 - 85 |
| No. 30 | 23.3 | 60.4 | 25 - 60 |
| No. 50 | 41.2 | 19.2 | 10 - 30 |
| No. 100 | 17.3 | 1.9 | 2 - 10 |
| No. 200 | 1.2 | 0.6 | |
| Pan | 0.6 | | |

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 50 feet

| | | | |
|--------------------------------------|-----|-------------|--|
| Percent Gravel + 1.5 inch | 2.0 | | |
| Percent Gravel 1.5 to 0.75 inches | 4.0 | | |
| Percent Gravel 0.75 inch to #4 sieve | 8.1 | | |
| Total Percent Gravel | | 14.1 | |

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

| INDIVIDUAL INTERVALS | PERCENT GRAVEL | | | Sample Wt. (lbs.) |
|----------------------|----------------|------------|------------------|-------------------|
| | Total | + 1.5 inch | 1.5 to 0.75 inch | |
| 3 - 10 | 6.5 | 1.5 | 1.0 | 36.2 |
| 10 - 20 | 9.4 | 2.3 | 3.8 | 35.7 |
| 20 - 25 | 21.2 | 4.7 | 5.8 | 32.0 |
| 25 - 30 | 15.0 | 0.0 | 5.2 | 30.7 |
| 30 - 35 | 16.2 | 2.7 | 4.8 | 30.9 |
| 35 - 40 | 18.5 | 0.0 | 6.2 | 27.2 |
| 40 - 45 | 21.1 | 0.0 | 4.5 | 28.0 |
| 45 - 50 | 12.5 | 4.4 | 2.1 | 17.5 |

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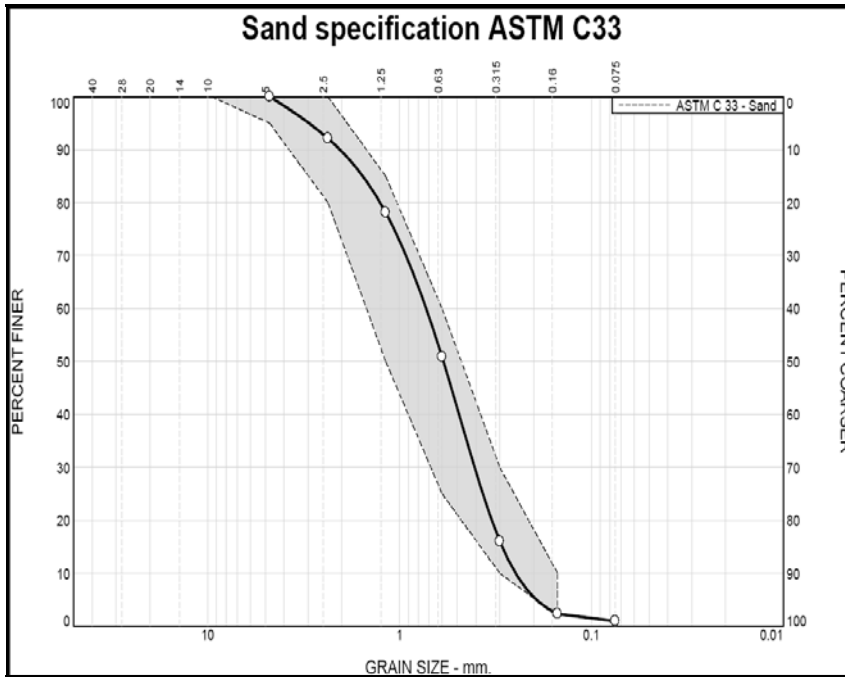
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HOLE NO. I13300

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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 | 7.9 | 92.1 | 80 - 100 |
| No. 16 | 14.0 | 78.1 | 50 - 85 |
| No. 30 | 27.3 | 50.9 | 25 - 60 |
| No. 50 | 34.8 | 16.0 | 10 - 30 |
| No. 100 | 13.7 | 2.3 | 2 - 10 |
| No. 200 | 1.4 | 0.9 | |
| Pan | 0.9 | | |

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

| | | | |
|--------------------------------------|------|-----------------------------|-------------|
| Percent Gravel + 1.5 inch | 1.7 | | |
| Percent Gravel 1.5 to 0.75 inches | 5.5 | Total Percent Gravel | 23.1 |
| Percent Gravel 0.75 inch to #4 sieve | 15.9 | | |

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 | |
| 5 - 10 | 12.2 | 0.7 | 4.1 | 7.4 | 28.6 |
| 10 - 15 | 16.7 | 1.4 | 5.9 | 9.4 | 32.9 |
| 15 - 20 | 21.5 | 3.9 | 7.3 | 10.2 | 33.1 |
| 20 - 25 | 31.3 | 5.0 | 3.3 | 23.0 | 34.3 |
| 25 - 30 | 29.0 | 0.0 | 7.6 | 21.4 | 32.1 |
| 30 - 35 | 27.8 | 1.1 | 3.4 | 23.2 | 27.8 |
| 35 - 40 | 23.4 | 0.0 | 6.6 | 16.7 | 26.4 |

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