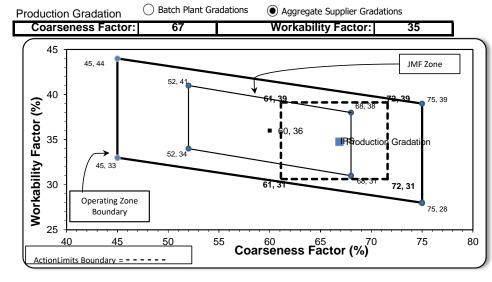
| PLANT : | #: | P-101 | | | | | Contractor: | | |
|--------------|--------|--------------|--------------|-----------------|---------------------|-------------------------|-----------------|--------------------------|-----|
| Sample Date | e: | 11/7/22 | | | Concrete Grade: | P1M, 3500HP | | | |
| Dates Test R | | 11/8/2022 | through | 11/14/2022 | | | MDOT No.: | | |
| Agg. Class | Pit # | Source | Weight (SSD) | ft ³ | Specific Gravity | % Contribution | | | |
| CA | 71-47 | Presque Isle | 1070 | 6.54 | 2.62 | 34.9 | | | |
| IA | 71-47 | Presque Isle | 800 | 4.89 | 2.62 | 26.1 | | | |
| 2NS | 75-051 | Mid Michigan | 1200 | 7.23 | 2.66 | 39.1 | | | |
| | | Total Wt | 3070 | 18.67 | | 100.0 | < Verify this n | umber is 100% | _ |
| Sieve | | CA | L/ | 4 | 2NS | Cumulative % Passing | % Retained | Cumulative % Retained | |
| 2" | 1 | 100.0 | 10 | 0.0 | 100.0 | 100.0 | 0.0 | 0.0 | |
| 1.5" | | 98.7 | 10 | 0.0 | 100.0 | 99.5 | 0.5 | 0.5 | |
| 1" | | 47.5 | 10 | 0.0 | 100.0 | 81.7 | 17.8 | 18.3 | |
| 3/4" | | 12.4 | 98 | 8.5 | 100.0 | 69.1 | 12.6 | 30.9 | |
| 1/2" | | 3.0 | 83 | 3.2 | 100.0 | 61.8 | 7.3 | 38.2 | |
| 3/8" | | 2.0 | 63 | 8.7 | 100.0 | 56.4 | 5.4 | 43.6 | * |
| #4 | | 1.6 | 17 | ' .3 | 98.8 | 43.7 | 12.7 | 56.3 | *. |
| #8 | | 1.4 | 4 | .5 | 84.7 | 34.8 | 8.9 | 65.2 | no |
| #16 | | 1.4 | 2 | .7 | 69.2 | 28.2 | 6.5 | 71.8 | * |
| #30 | | 1.3 | 2 | .3 | 50.9 | 20.9 | 7.3 | 79.1 | no |
| #50 | | 1.2 | 2 | .1 | 21.0 | 9.2 | 11.8 | 90.8 | * |
| #100 | | 1.1 | | .9 | 4.5 | 2.6 | 6.5 | 97.4 | a 2 |
| LBW | | 0.9 | 1. | .7 | 0.6 | 1.0 | 1.6 | 99.0 | 1 |



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*Maximum % Retained must be above the 3/8" sieve.
*Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 8% for the 1" sieve when a 2" max. size (nom. Max. 1.5") aggregate is used.



| | on Sample (IPS | 2) | _ |
|--------|-----------------|----------|------------|
| Coarse | eness Factor: | 66 | |
| Worka | ability Factor: | 35 | |
| Sieve | Cumulative | % | Cumulative |
| Sieve | % Passing | Retained | % Retained |
| 2" | 100.0 | 0.0 | 0.0 |
| 1.5" | 99.6 | 0.4 | 0.4 |
| 1" | 84.3 | 15.3 | 15.7 |
| 3/4" | 74.8 | 9.6 | 25.2 |
| 1/2" | 64.3 | 10.4 | 35.7 |
| 3/8" | 56.8 | 7.5 | 43.2 |
| #4 | 43.0 | 13.8 | 57.0 |
| #8 | 34.9 | 8.1 | 65.1 |
| #16 | 26.4 | 8.5 | 73.6 |
| #30 | 19.9 | 6.5 | 80.1 |
| #50 | 10.4 | 9.5 | 89.6 |
| #100 | 3.4 | 7.0 | 96.6 |
| LBW | 1.2 | 2.2 | 98.8 |

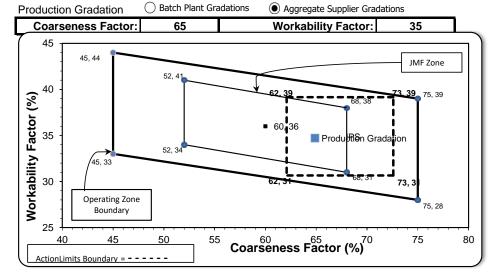
Approved By: Mart 1. Ball

| PLANT # | #: | P-102 | | | | | Contractor: | | |
|--------------|------------|-----------------|--------------|-----------------|---------------------|-------------------------|-----------------|--------------------------|---|
| Sample Date | : | 11/7/22 | | | Concrete Grade: | P1M, 3500HP | | | |
| Dates Test R | epresents: | 11/8/2022 | through | 11/14/2022 | | | MDOT No.: | | |
| Agg. Class | Pit # | Source | Weight (SSD) | ft ³ | Specific Gravity | % Contribution | | | |
| CA | 58-003 | Stoneco | 1370 | 8.16 | 2.69 | 43.9 | | | |
| IA | 58-003 | Stoneco | 550 | 3.28 | 2.69 | 17.6 | | | |
| 2NS | 81-019 | Pleasant Lake | 1200 | 7.26 | 2.65 | 38.5 | | | |
| | | Total Wt | 3120 | 18.70 | | 100.0 | < Verify this n | umber is 100% | |
| Sieve | | CA | ľ | A | 2NS | Cumulative % Passing | % Retained | Cumulative % Retained | |
| 2" | | 100.0 | 10 | 0.0 | 100.0 | 100.0 | 0.0 | 0.0 | |
| 1.5" | 1 | 100.0 | 10 | 0.0 | 100.0 | 100.0 | 0.0 | 0.0 | |
| 1" | | 66.4 | 10 | 0.0 | 100.0 | 85.2 | 14.8 | 14.8 | |
| 3/4" | | 38.0 | 10 | 0.0 | 100.0 | 72.8 | 12.5 | 27.2 | |
| 1/2" | | 21.7 93.9 100.0 | 100.0 | 64.5 | 8.2 | 35.5 | | | |
| 3/8" | | 12.3 | 78 | 3.2 | 100.0 | 57.6 | 6.9 | 42.4 | |
| #4 | | 4.2 | 24 | 1.5 | 98.1 | 43.9 | 13.8 | 56.1 | |
| #8 | | 2.6 | 6 | .1 | 84.5 | 34.7 | 9.2 | 65.3 | n |
| #16 | | 2.7 | 2 | .9 | 68.0 | 27.9 | 6.9 | 72.1 | 1 |
| #30 | | 2.4 | 2 | .0 | 49.2 | 20.3 | 7.5 | 79.7 | n |
| #50 | | 2.2 | 1 | .8 | 25.7 | 11.2 | 9.2 | 88.8 | |
| #100 | | 1.6 | 1 | .7 | 7.2 | 3.8 | 7.4 | 96.2 | а |
| LBW | | 1.4 | 1 | .4 | 1.4 | 1.4 | 2.4 | 98.6 | |



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*Maximum % Retained must be above the 3/8" sieve.
*Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 8% for the 1" sieve when 12" max. size (nom. Max. 1.5") aggregate is used.



| Intial Production | on Sample (IPS | 5) | _ |
|-------------------|-----------------|----------|------------|
| Coars | eness Factor: | 67 | |
| Work | ability Factor: | 35 | |
| Sieve | Cumulative | % | Cumulative |
| Sieve | % Passing | Retained | % Retained |
| 2" | 100.0 | 0.0 | 0.0 |
| 1.5" | 100.0 | 0.0 | 0.0 |
| 1" | 85.5 | 14.5 | 14.5 |
| 3/4" | 73.4 | 12.1 | 26.6 |
| 1/2" | 61.0 | 12.4 | 39.0 |
| 3/8" | 56.2 | 4.8 | 43.8 |
| #4 | 43.1 | 13.1 | 56.9 |
| #8 | 34.9 | 8.2 | 65.1 |
| #16 | 29.4 | 5.5 | 70.6 |
| #30 | 21.6 | 7.8 | 78.4 |
| #50 | 8.1 | 13.4 | 91.9 |
| #100 | #100 2.2 | | 97.8 |
| LBW | 1.4 | 0.8 | 98.6 |

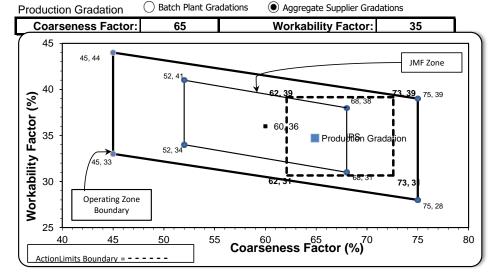
Approved By: Mart 1. Ball

| PLANT # | #: | P-103 | | | | | Contractor: | | | | | | | | | | |
|--------------|------------|---------------|--------------|-----------------|---------------------|-------------------------|-----------------|--------------------------|----|----|-----|-----|-------|------|------|------|---|
| Sample Date | : | 11/7/22 | | | Concrete Grade: | P1M, 3500HP | | | | | | | | | | | |
| Dates Test R | epresents: | 11/8/2022 | through | 11/14/2022 | | | MDOT No.: | | | | | | | | | | |
| Agg. Class | Pit # | Source | Weight (SSD) | ft ³ | Specific Gravity | % Contribution | | | | | | | | | | | |
| CA | 58-003 | Stoneco | 1370 | 8.16 | 2.69 | 43.9 | | | | | | | | | | | |
| IA | 58-003 | Stoneco | 550 | 3.28 | 2.69 | 17.6 | | | | | | | | | | | |
| 2NS | 81-019 | Pleasant Lake | 1200 | 7.26 | 2.65 | 38.5 | | | | | | | | | | | |
| | | Total Wt | 3120 | 18.70 | | 100.0 | < Verify this n | umber is 100% | | | | | | | | | |
| Sieve | | CA | L/ | A | 2NS | Cumulative % Passing | % Retained | Cumulative % Retained | | | | | | | | | |
| 2" | 1 | 100.0 | 10 | 0.0 | 100.0 | 100.0 | 0.0 | 0.0 | 1 | | | | | | | | |
| 1.5" | 1 | 100.0 | 10 | 0.0 | 100.0 | 100.0 | 0.0 | 0.0 | 1 | | | | | | | | |
| 1" | | 66.4 | 10 | 0.0 | 100.0 | 85.2 | 14.8 | 14.8 | 1 | | | | | | | | |
| 3/4" | | 38.0 | 10 | 10 | 10 | 10 | 100 | | 10 | 10 | 100 | 0.0 | 100.0 | 72.8 | 12.5 | 27.2 | 1 |
| 1/2" | | 21.7 | 93 | 3.9 | 100.0 | 64.5 | 8.2 | 35.5 | | | | | | | | | |
| 3/8" | | 12.3 | 78 | 3.2 | 100.0 | 57.6 | 6.9 | 42.4 | 1 | | | | | | | | |
| #4 | | 4.2 | 24 | 1.5 | 98.1 | 43.9 | 13.8 | 56.1 | 1 | | | | | | | | |
| #8 | | 2.6 | 6 | .1 | 84.5 | 34.7 | 9.2 | 65.3 | | | | | | | | | |
| #16 | | 2.7 | 2 | .9 | 68.0 | 27.9 | 6.9 | 72.1 | 1 | | | | | | | | |
| #30 | | 2.4 | 2 | .0 | 49.2 | 20.3 | 7.5 | 79.7 | | | | | | | | | |
| #50 | | 2.2 | 1. | .8 | 25.7 | 11.2 | 9.2 | 88.8 | | | | | | | | | |
| #100 | | 1.6 | 1. | .7 | 7.2 | 3.8 | 7.4 | 96.2 | | | | | | | | | |
| LBW | | 1.4 | 1. | .4 | 1.4 | 1.4 | 2.4 | 98.6 | 1 | | | | | | | | |



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*Maximum % Retained must be above the 3/8" sieve.
*Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 8% for the 1" sieve when 12" max. size (nom. Max. 1.5") aggregate is used.



| Intial Product | on Sample (IPS | 5) | _ |
|----------------|-----------------|----------|------------|
| Coars | seness Factor: | 67 | |
| Worl | ability Factor: | 35 | |
| Sieve | Cumulative | % | Cumulative |
| Sieve | % Passing | Retained | % Retained |
| 2" | 100.0 | 0.0 | 0.0 |
| 1.5" | 100.0 | 0.0 | 0.0 |
| 1" | 85.5 | 14.5 | 14.5 |
| 3/4" | 73.4 | 12.1 | 26.6 |
| 1/2" | 61.0 | 12.4 | 39.0 |
| 3/8" | 56.2 | 4.8 | 43.8 |
| #4 | 43.1 | 13.1 | 56.9 |
| #8 | 34.9 | 8.2 | 65.1 |
| #16 | 29.4 | 5.5 | 70.6 |
| #30 | 21.6 | 7.8 | 78.4 |
| #50 | 8.1 | 13.4 | 91.9 |
| #100 | 2.2 | 5.9 | 97.8 |
| LBW | 1.4 | 0.8 | 98.6 |
| | | | |

Approved BY: Mart P. Ball

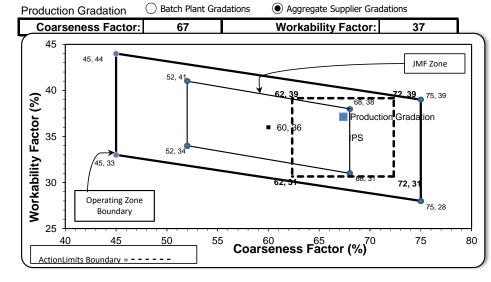
| PLANT : | #: | P-14 | | | | | Contractor: | | |
|--------------|------------|-----------|--------------|-----------------|---------------------|-------------------------|-----------------|--------------------------|-----------------------------------|
| Sample Date | •: | 11/7/22 | | (| Concrete Grade | : P1M, 3500HP | | | |
| Dates Test R | epresents: | 11/8/2022 | through | 11/14/2022 | | | MDOT No.: | | |
| Agg. Class | Pit # | Source | Weight (SSD) | ft ³ | Specific Gravity | % Contribution | | | |
| CA | 58-003 | Stoneco | 1370 | 8.16 | 2.69 | 43.9 | | | 5 |
| IA | 58-003 | Stoneco | 550 | 3.28 | 2.69 | 17.6 | | | |
| 2NS | 19-55 | Schlegel | 1200 | 7.20 | 2.67 | 38.5 | | | Bui |
| | | Total Wt | 3120 | 18.64 | | 100.0 | < Verify this n | umber is 100% | RE |
| Sieve | | CA | 1/ | A | 2NS | Cumulative % Passing | % Retained | Cumulative % Retained | Builders 30701 W. |
| 2" | 1 | 00.0 | 100 | 0.0 | 100.0 | 100.0 | 0.0 | 0.0 | Suite 500 |
| 1.5" | 1 | 00.0 | 100 | 0.0 | 100.0 | 100.0 | 0.0 | 0.0 | Farmingto |
| 1" | 6 | 66.4 | 100 | 0.0 | 100.0 | 85.2 | 14.8 | 14.8 | |
| 3/4" | 3 | 38.0 | 100 | 0.0 | 100.0 | 72.8 | 12.5 | 27.2 | |
| 1/2" | 2 | 21.7 | 93 | 5.9 | 100.0 | 64.5 | 8.2 | 35.5 | |
| 3/8" | 1 | 12.3 | 78 | 5.2 | 100.0 | 57.6 | 6.9 | 42.4 | *Maximum % Retained must be |
| #4 | | 4.2 | 24 | .5 | 100.0 | 44.6 | 13.0 | 55.4 | *Any two adjacent sieves must |
| #8 | | 2.6 | 6. | .1 | 90.8 | 37.1 | 7.5 | 62.9 | nom. max., #100 and #200 sieve |
| #16 | | 2.7 | 2. | .9 | 71.2 | 29.1 | 8.1 | 70.9 | *% Retained must be at least 4 |
| #30 | | 2.4 | 2. | .0 | 48.1 | 19.9 | 9.2 | 80.1 | nom. max., #100 and #200 sieve |
| #50 | | 2.2 | 1. | .8 | 16.9 | 7.8 | 12.1 | 92.2 | *% Retained must be at least 8 |
| #100 | | 1.6 | 1. | | 3.2 | 2.2 | 5.6 | 97.8 | a 2" max. size (nom. Max. 1.5") a |
| LBW | | 1.4 | 1. | 4 | 0.3 | 1.0 | 1.3 | 99.0 |] |



Builders Redi-Mix

30701 W. 10 Mile Rd. Suite 500 Farmington Hills, MI 48336

Maximum % Retained must be above the 3/8" sieve. Any two adjacent sieves must equal 10% except max., bm. max., #100 and #200 sieves. % Retained must be at least 4% for each sieve except max., bm. max., #100 and #200 sieves. % Retained must be at least 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



| Intial Product | ion Sample (IPS | 5) | _ |
|----------------|-----------------|----------|------------|
| Coars | seness Factor: | 67 | |
| Worl | ability Factor: | 35 | |
| Sieve | Cumulative | % | Cumulative |
| Sieve | % Passing | Retained | % Retained |
| 2" | 100.0 | 0.0 | 0.0 |
| 1.5" | 100.0 | 0.0 | 0.0 |
| 1" | 85.5 | 14.5 | 14.5 |
| 3/4" | 73.4 | 12.1 | 26.6 |
| 1/2" | 61.0 | 12.4 | 39.0 |
| 3/8" | 56.2 | 4.8 | 43.8 |
| #4 | 43.1 | 13.1 | 56.9 |
| #8 | 34.9 | 8.2 | 65.1 |
| #16 | 29.4 | 5.5 | 70.6 |
| #30 | 21.6 | 7.8 | 78.4 |
| #50 | 8.1 | 13.4 | 91.9 |
| #100 | 2.2 | 5.9 | 97.8 |
| LBW | 1.4 | 0.8 | 98.6 |
| | | | |

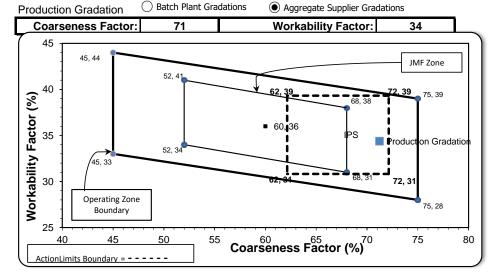
Approved By: Mary 1. Ball

| PLANT # | #: | P-12 | | | | | Contractor: | | |
|--------------|------------|--------------|--------------|-----------------|---------------------|-------------------------|-----------------|--------------------------|---|
| Sample Date | : | 11/7/22 | | | Concrete Grade: | P1M, 3500HP | | | |
| Dates Test R | epresents: | 11/8/2022 | through | 11/14/2022 | | | MDOT No.: | | |
| Agg. Class | Pit # | Source | Weight (SSD) | ft ³ | Specific Gravity | % Contribution | | | |
| CA | 71-47 | Presque Isle | 1020 | 6.24 | 2.62 | 33.2 | | | |
| IA | 71-47 | Presque Isle | 800 | 4.89 | 2.62 | 26.1 | | | |
| 2NS | 63-115 | Ray Rd | 1250 | 7.56 | 2.65 | 40.7 | | | |
| | | Total Wt | 3070 | 18.69 | | 100.0 | < Verify this n | umber is 100% | |
| Sieve | | CA | IA | A | 2NS | Cumulative % Passing | % Retained | Cumulative % Retained | |
| 2" | 1 | 00.0 | 100 |).0 | 100.0 | 100.0 | 0.0 | 0.0 | |
| 1.5" | 1 | 00.0 | 100 |).0 | 100.0 | 100.0 | 0.0 | 0.0 | |
| 1" | : | 50.2 | 100 |).0 | 100.0 | 83.5 | 16.5 | 16.5 | |
| 3/4" | | 12.6 | 97 | .1 | 100.0 | 70.2 | 13.2 | 29.8 | 1 |
| 1/2" | | 2.6 | 72 | .5 | 100.0 | 60.5 | 9.7 | 39.5 | |
| 3/8" | | 2.2 | 45 | .3 | 100.0 | 53.3 | 7.2 | 46.7 | |
| #4 | | 2.2 | 10 | .1 | 96.9 | 42.8 | 10.4 | 57.2 | |
| #8 | | 2.1 | 3. | 6 | 80.4 | 34.4 | 8.4 | 65.6 | n |
| #16 | | 2.1 | 2. | 6 | 65.3 | 28.0 | 6.4 | 72.0 | |
| #30 | | 2.0 | 2. | 4 | 50.6 | 21.9 | 6.1 | 78.1 | n |
| #50 | | 2.0 | 2. | 2 | 28.1 | 12.7 | 9.2 | 87.3 | |
| #100 | | 1.9 | 2. | | 6.1 | 3.7 | 9.0 | 96.3 | а |
| LBW | | 1.6 | 1. | 9 | 0.7 | 1.3 | 2.4 | 98.7 | |



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Maximum % Retained must be above the 3/8" sieve. Any two adjacent sieves must equal 10% except max., om. max., #100 and #200 sieves. % Retained must be at least 4% for each sieve except max., om. max., #100 and #200 sieves. % Retained must be at least 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



| Intial Producti | on Sample (IPS | 5) | - |
|-----------------|-----------------|----------|------------|
| Coars | eness Factor: | 67 | |
| Work | ability Factor: | 35 | |
| Sieve | Cumulative | % | Cumulative |
| Sieve | % Passing | Retained | % Retained |
| 2" | 100.0 | 0.0 | 0.0 |
| 1.5" | 99.6 | 0.4 | 0.4 |
| 1" | 83.9 | 15.7 | 16.1 |
| 3/4" | 74.0 | 9.8 | 26.0 |
| 1/2" | 63.7 | 10.3 | 36.3 |
| 3/8" | 56.4 | 7.3 | 43.6 |
| #4 | 43.0 | 13.4 | 57.0 |
| #8 | 35.1 | 7.9 | 64.9 |
| #16 | 29.0 | 6.1 | 71.0 |
| #30 | 20.9 | 8.0 | 79.1 |
| #50 | 8.1 | 12.8 | 91.9 |
| #100 | ¥100 1.6 | | 98.4 |
| LBW | 0.9 | 0.8 | 99.1 |

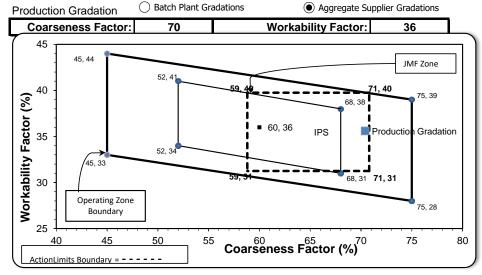
Approved By: Mart P. Ball

| PLANT # | #: | 11 | | | | | Contractor: | | |
|--------------|------------|--------------|--------------|-----------------|---------------------|-------------------------|-----------------|--------------------------|--------|
| Sample Date | : | 11/7/22 | | (| Concrete Grade | e: P1M, 3500HP | | | |
| Dates Test R | epresents: | 11/8/2022 | through | 11/14/2022 | | | MDOT No.: | | |
| Agg. Class | Pit # | Source | Weight (SSD) | ft ³ | Specific Gravity | % Contribution | | | |
| CA | 71-47 | Presque Isle | 920 | 5.63 | 2.62 | 30.0 | | | |
| IA | 71-47 | Presque Isle | 900 | 5.50 | 2.62 | 29.3 | | | |
| 2NS | 95-013 | Smelter Bay | 1250 | 7.56 | 2.65 | 40.7 | | | |
| | | Total Wt | 3070 | 18.69 | | 100.0 | < Verify this n | umber is 100% | _ |
| Sieve | | CA | IA | A | 2NS | Cumulative % Passing | % Retained | Cumulative % Retained | |
| 2" | 1 | 100.0 | 100 | 0.0 | 100.0 | 100.0 | 0.0 | 0.0 | 1 |
| 1.5" | 1 | 100.0 | 100 | 0.0 | 100.0 | 100.0 | 0.0 | 0.0 | 1 |
| 1" | | 50.2 | 100 | 0.0 | 100.0 | 85.1 | 14.9 | 14.9 | |
| 3/4" | | 12.6 | 97 | .1 | 100.0 | 73.0 | 12.1 | 27.0 | 1 |
| 1/2" | | 2.6 | 72 | .5 | 100.0 | 62.7 | 10.2 | 37.3 | |
| 3/8" | | 2.2 | 45 | .3 | 100.0 | 54.7 | 8.1 | 45.3 | *Ma |
| #4 | | 2.2 | 10 | .1 | 96.1 | 42.7 | 11.9 | 57.3 | *Any |
| #8 | | 2.1 | 3. | 6 | 83.3 | 35.6 | 7.1 | 64.4 | nom. |
| #16 | | 2.1 | 2. | 6 | 68.4 | 29.2 | 6.4 | 70.8 | *% F |
| #30 | | 2.0 | 2. | 4 | 49.6 | 21.5 | 7.7 | 78.5 | nom. |
| #50 | | 2.0 | 2. | 2 | 24.2 | 11.1 | 10.4 | 88.9 | *% F |
| #100 | | 1.9 | 2. | | 6.9 | 4.0 | 7.1 | 96.0 | a 2" n |
| LBW | | 1.6 | 1. | 9 | 1.3 | 1.6 | 2.4 | 98.4 | |



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Maximum % Retained must be above the 3/8" sieve. Any two adjacent sieves must equal 10% except max., om. max., #100 and #200 sieves. % Retained must be at least 4% for each sieve except max., om. max., #100 and #200 sieves. % Retained must be at least 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



| Intial Product | ion Sample (IPS | 5) | |
|----------------|------------------|----------|------------|
| Coar | seness Factor: | 65 | |
| Wor | kability Factor: | 36 | |
| Sieve | Cumulative | % | Cumulative |
| Sleve | % Passing | Retained | % Retained |
| 2" | 100.0 | 0.0 | 0.0 |
| 1.5" | 99.0 | 0.6 | 0.6 |
| 1" | 84.0 | 15.3 | 16.0 |
| 3/4" | 73.5 | 10.5 | 26.5 |
| 1/2" | 65.2 | 8.2 | 34.8 |
| 3/8" | 58.2 | 7.1 | 41.8 |
| #4 | 44.1 | 14.1 | 55.9 |
| #8 | 35.5 | 8.6 | 64.5 |
| #16 | 29.1 | 6.4 | 70.9 |
| #30 | 21.9 | 7.3 | 78.1 |
| #50 | 9.6 | 12.2 | 90.4 |
| #100 | 2.6 | 7.1 | 97.4 |
| LBW | 1.0 | 1.6 | 99.0 |

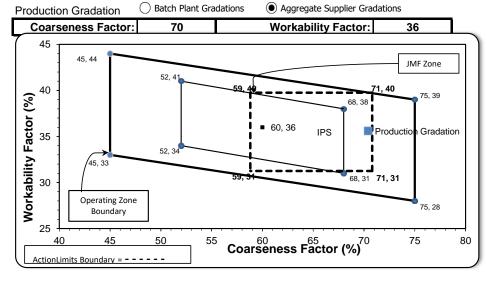
Approved By: Mart P. Ball

| PLANT #: P-32 | | | | | | Contractor: | | | |
|---------------|--------|--------------|--------------|-----------------|---------------------|-------------------------|-----------------|--------------------------|-----|
| Sample Date | e: | 11/7/22 | | | Concrete Grade: | P1M, 3500HP | | | |
| Dates Test R | | 11/8/2022 | through | 11/14/2022 | | | MDOT No.: | | |
| Agg. Class | Pit # | Source | Weight (SSD) | ft ³ | Specific Gravity | % Contribution | | | |
| CA | 71-47 | Presque Isle | 920 | 5.63 | 2.62 | 30.0 | | | |
| IA | 71-47 | Presque Isle | 900 | 5.50 | 2.62 | 29.3 | | | |
| 2NS | 95-013 | Smelter Bay | 1250 | 7.56 | 2.65 | 40.7 | | | |
| | | Total Wt | 3070 | 18.69 | | 100.0 | < Verify this n | umber is 100% | _ |
| Sieve | | CA | I/ | 4 | 2NS | Cumulative % Passing | % Retained | Cumulative % Retained | |
| 2" | 1 | 00.0 | 10 | 0.0 | 100.0 | 100.0 | 0.0 | 0.0 | 1 |
| 1.5" | 1 | 00.0 | 10 | 0.0 | 100.0 | 100.0 | 0.0 | 0.0 | 1 |
| 1" | | 50.2 | 10 | 0.0 | 100.0 | 85.1 | 14.9 | 14.9 | 1 |
| 3/4" | | 12.6 | 97 | ' .1 | 100.0 | 73.0 | 12.1 | 27.0 | 1 |
| 1/2" | | 2.6 | 72 | 2.5 | 100.0 | 62.7 | 10.2 | 37.3 | |
| 3/8" | | 2.2 | 45 | 5.3 | 100.0 | 54.7 | 8.1 | 45.3 | * |
| #4 | | 2.2 | 10 |).1 | 96.1 | 42.7 | 11.9 | 57.3 | *. |
| #8 | | 2.1 | 3 | .6 | 83.3 | 35.6 | 7.1 | 64.4 | no |
| #16 | | 2.1 | 2 | .6 | 68.4 | 29.2 | 6.4 | 70.8 | * |
| #30 | | 2.0 | 2 | .4 | 49.6 | 21.5 | 7.7 | 78.5 | no |
| #50 | | 2.0 | 2 | .2 | 24.2 | 11.1 | 10.4 | 88.9 | * |
| #100 | | 1.9 | 2 | .1 | 6.9 | 4.0 | 7.1 | 96.0 | a 2 |
| LBW | | 1.6 | 1. | .9 | 1.3 | 1.6 | 2.4 | 98.4 | 1 |



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*Maximum % Retained must be above the 3/8" sieve.
*Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 8% for the 1" sieve when 12" max. size (nom. Max. 1.5") aggregate is used.



| Intial Production Sample (IPS) | | | | | | | | | |
|--------------------------------|-----------------|----------|------------|--|--|--|--|--|--|
| Coars | seness Factor: | 65 | | | | | | | |
| Worl | ability Factor: | 36 | | | | | | | |
| Sieve | Cumulative | % | Cumulative | | | | | | |
| Sleve | % Passing | Retained | % Retained | | | | | | |
| 2" | 100.0 | 0.0 | 0.0 | | | | | | |
| 1.5" | 99.0 | 0.6 | 0.6 | | | | | | |
| 1" | 84.0 | 15.3 | 16.0 | | | | | | |
| 3/4" | 73.5 | 10.5 | 26.5 | | | | | | |
| 1/2" | 65.2 | 8.2 | 34.8 | | | | | | |
| 3/8" | 58.2 | 7.1 | 41.8 | | | | | | |
| #4 | 44.1 | 14.1 | 55.9 | | | | | | |
| #8 | 35.5 | 8.6 | 64.5 | | | | | | |
| #16 | 29.1 | 6.4 | 70.9 | | | | | | |
| #30 | 21.9 | 7.3 | 78.1 | | | | | | |
| #50 | 9.6 | 12.2 | 90.4 | | | | | | |
| #100 | 2.6 | 7.1 | 97.4 | | | | | | |
| LBW | 1.0 | 1.6 | 99.0 | | | | | | |

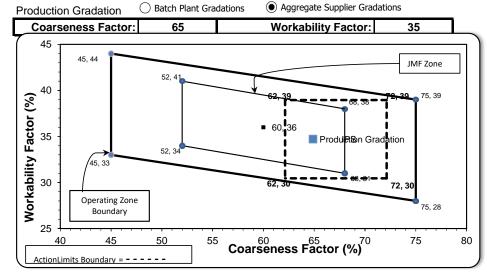
Approved By: Mart P. Ball

| PLANT #: P-35 | | | | | | Contractor: | | | |
|---------------|------------|---------------|--------------|-----------------|---------------------|-------------------------|-----------------|--------------------------|---|
| Sample Date | : | 11/7/22 | | | Concrete Grade: | P1M, 3500HP | | | |
| Dates Test R | epresents: | 11/8/2022 | through | 11/14/2022 | | | MDOT No.: | | |
| Agg. Class | Pit # | Source | Weight (SSD) | ft ³ | Specific Gravity | % Contribution | | | |
| CA | 58-003 | Stoneco | 1370 | 8.16 | 2.69 | 43.9 | | | |
| IA | 58-003 | Stoneco | 550 | 3.28 | 2.69 | 17.6 | | | |
| 2NS | 81-019 | Pleasant Lake | 1200 | 7.26 | 2.65 | 38.5 | | | |
| | | Total Wt | 3120 | 18.70 | | 100.0 | < Verify this n | umber is 100% | |
| Sieve | | CA | IA | A | 2NS | Cumulative % Passing | % Retained | Cumulative % Retained | |
| 2" | | 100.0 | 100 | 0.0 | 100.0 | 100.0 | 0.0 | 0.0 | 1 |
| 1.5" | 1 | 100.0 | 100 | 0.0 | 100.0 | 100.0 | 0.0 | 0.0 | |
| 1" | | 66.4 | 100 | 0.0 | 100.0 | 85.2 | 14.8 | 14.8 | 1 |
| 3/4" | | 38.0 | 100 | 0.0 | 100.0 | 72.8 | 12.5 | 27.2 | 1 |
| 1/2" | | 21.7 | 93 | .9 | 100.0 | 64.5 | 8.2 | 35.5 | |
| 3/8" | | 12.3 | 78 | .2 | 100.0 | 57.6 | 6.9 | 42.4 | |
| #4 | | 4.2 | 24 | .5 | 98.1 | 43.9 | 13.8 | 56.1 | |
| #8 | | 2.6 | 6. | 1 | 84.5 | 34.7 | 9.2 | 65.3 | n |
| #16 | | 2.7 | 2. | 9 | 68.0 | 27.9 | 6.9 | 72.1 | |
| #30 | | 2.4 | 2. | 0 | 49.2 | 20.3 | 7.5 | 79.7 | n |
| #50 | | 2.2 | 1. | 8 | 25.7 | 11.2 | 9.2 | 88.8 | |
| #100 | | 1.6 | 1. | 7 | 7.2 | 3.8 | 7.4 | 96.2 | а |
| LBW | | 1.4 | 1. | 4 | 1.4 | 1.4 | 2.4 | 98.6 | 1 |



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Maximum % Retained must be above the 3/8" sieve. "Any two adjacent sieves must equal 10% except max., bm. max., #100 and #200 sieves. "% Retained must be at least 4% for each sieve except max., bm. max., #100 and #200 sieves. "% Retained must be at least 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



| Intial Production Sample (IPS) | | | | | | | | | |
|--------------------------------|-----------------|----------|------------|--|--|--|--|--|--|
| Coars | seness Factor: | 67 | | | | | | | |
| Work | ability Factor: | 35 | | | | | | | |
| Sieve | Cumulative | % | Cumulative | | | | | | |
| Sieve | % Passing | Retained | % Retained | | | | | | |
| 2" | 100.0 | 0.0 | 0.0 | | | | | | |
| 1.5" | 100.0 | 0.0 | 0.0 | | | | | | |
| 1" | 86.9 | 13.1 | 13.1 | | | | | | |
| 3/4" | 76.1 | 10.8 | 23.9 | | | | | | |
| 1/2" | 63.7 | 12.4 | 36.3 | | | | | | |
| 3/8" | 56.2 | 7.5 | 43.8 | | | | | | |
| #4 | 43.2 | 13.0 | 56.8 | | | | | | |
| #8 | 34.7 | 8.5 | 65.3 | | | | | | |
| #16 | 27.5 | 7.2 | 72.5 | | | | | | |
| #30 | 20.6 | 7.0 | 79.4 | | | | | | |
| #50 | 9.0 | 11.6 | 91.0 | | | | | | |
| #100 | 2.1 | 6.9 | 97.9 | | | | | | |
| LBW | 1.0 | 1.1 | 99.0 | | | | | | |

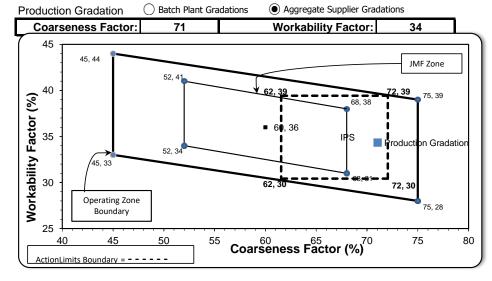
Approved By: Mart P. Ball

| PLANT #: P-36 | | | | | | Contractor: | | | | |
|---------------|------------|--------------|--------------|-----------------|---------------------|-------------------------|-----------------|--------------------------|------|----|
| Sample Date | : | 11/7/22 | | | Concrete Grade: | P1M, 3500HP | | | | |
| Dates Test R | epresents: | 11/8/2022 | through | 11/14/2022 | | | MDOT No.: | | | |
| Agg. Class | Pit # | Source | Weight (SSD) | ft ³ | Specific Gravity | % Contribution | | | | |
| CA | 71-47 | Presque Isle | 950 | 5.81 | 2.62 | 30.9 | | | | |
| IA | 71-47 | Presque Isle | 920 | 5.63 | 2.62 | 30.0 | | | | |
| 2NS | 63-92 | Grange Hall | 1200 | 7.26 | 2.65 | 39.1 | | | | |
| | | Total Wt | 3070 | 18.70 | | 100.0 | < Verify this n | umber is 100% | _ | |
| Sieve | | CA | L/ | A | 2NS | Cumulative % Passing | % Retained | Cumulative % Retained | | |
| 2" | 1 | 00.0 | 10 | 0.0 | 100.0 | 100.0 | 0.0 | 0.0 | - | |
| 1.5" | 1 | 00.0 | 10 | 0.0 | 100.0 | 100.0 | 0.0 | 0.0 | | |
| 1" | | 50.2 | 10 | 0.0 | 100.0 | 84.6 | 15.4 | 15.4 | 1 | |
| 3/4" | | 12.6 | 97 | 7.1 | 100.0 | 72.1 | 12.5 | 27.9 | | |
| 1/2" | | 2.6 | 72 | 2.5 | 100.0 | 61.6 | 10.5 | 38.4 | | |
| 3/8" | | 2.2 | 45 | 5.3 | 100.0 | 53.3 | 8.3 | 46.7 | * | |
| #4 | | 2.2 10 | |).1 | 97.5 | 41.8 | 11.5 | 58.2 | *, | |
| #8 | | 2.1 3.0 | | .6 | 83.4 | 34.3 | 7.5 | 65.7 | no | |
| #16 | | 2.1 | 2.6 | 2.6 69.4 | 2.6 | 69.4 | 28.6 | 5.8 | 71.4 | *(|
| #30 | | 2.0 | 2 | .4 | 51.5 | 21.5 | 7.1 | 78.5 | no | |
| #50 | | 2.0 | 2 | .2 | 22.1 | 9.9 | 11.6 | 90.1 | *0 | |
| #100 | | 1.9 | 2 | | 4.1 | 2.8 | 7.1 | 97.2 | a 2 | |
| LBW | | 1.6 | 1. | .9 | 1.0 | 1.5 | 1.4 | 98.5 | 1 | |



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*Maximum % Retained must be above the 3/8" sieve.
*Any two adjacent sieves must equal 10% except max., om. max., #100 and #200 sieves.
*% Retained must be at least 4% for each sieve except max., om. max., #100 and #200 sieves.
*% Retained must be at least 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



| Intial Production Sample (IPS) | | | | | | | | |
|--------------------------------|-----------------|----------|------------|--|--|--|--|--|
| Coars | eness Factor: | 67 | | | | | | |
| Work | ability Factor: | 35 | | | | | | |
| Sieve | Cumulative | % | Cumulative | | | | | |
| Sieve | % Passing | Retained | % Retained | | | | | |
| 2" | 100.0 | 0.0 | 0.0 | | | | | |
| 1.5" | 100.0 | 0.0 | 0.0 | | | | | |
| 1" | 85.0 | 15.0 | 15.0 | | | | | |
| 3/4" | 72.1 | 12.9 | 27.9 | | | | | |
| 1/2" | 64.5 | 7.6 | 35.5 | | | | | |
| 3/8" | 56.5 | 8.0 | 43.5 | | | | | |
| #4 | 42.7 | 13.8 | 57.3 | | | | | |
| #8 | 34.9 | 7.8 | 65.1 | | | | | |
| #16 | 29.0 | 5.9 | 71.0 | | | | | |
| #30 | 21.0 | 8.0 | 79.0 | | | | | |
| #50 | 8.2 | 12.8 | 91.8 | | | | | |
| #100 | 1.6 | 6.5 | 98.4 | | | | | |
| LBW | 0.7 | 0.9 | 99.3 | | | | | |

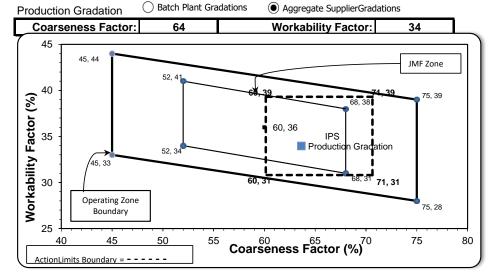
Approved By: Mart 1. Ball

| PLANT #: F | | P-39 | | | | | Contractor: | | |
|--------------|------------|-----------------|--------------|-----------------|---------------------|-------------------------|-----------------|--------------------------|-----|
| Sample Date | : | 11/7/22 | | | Concrete Grade: | P1M, 3500HP | | | |
| Dates Test R | epresents: | 11/8/2022 | through | 11/14/2022 | | | MDOT No.: | | |
| Agg. Class | Pit # | Source | Weight (SSD) | ft ³ | Specific Gravity | % Contribution | | | |
| CA | 71-47 | Presque Isle | 1020 | 6.24 | 2.62 | 33.2 | | | |
| IA | 71-47 | Presque Isle | 800 | 4.89 | 2.62 | 26.1 | | | |
| 2NS | 44-051 | Krake Willis Rd | 1250 | 7.56 | 2.65 | 40.7 | | | |
| | | Total Wt | 3070 | 18.69 | | 100.0 | < Verify this n | umber is 100% | _ |
| Sieve | | CA | 14 | A | 2NS | Cumulative % Passing | % Retained | Cumulative % Retained | |
| 2" | 1 | 100.0 | 100 | 0.0 | 100.0 | 100.0 | 0.0 | 0.0 | 1 |
| 1.5" | | 98.7 | 100 | 0.0 | 100.0 | 99.6 | 0.4 | 0.4 | |
| 1" | | 47.5 | 100 | 0.0 | 100.0 | 82.6 | 17.0 | 17.4 | |
| 3/4" | | 12.4 | 98 | .5 | 100.0 | 70.5 | 12.1 | 29.5 | |
| 1/2" | | 3.0 | 83 | .2 | 100.0 | 63.4 | 7.1 | 36.6 | |
| 3/8" | 2.0 | | 63 | 63.7 | | 58.0 | 5.4 | 42.0 | 1 |
| #4 | | 1.6 17. | | .3 | 96.3 | 44.2 | 13.7 | 55.8 | 1 |
| #8 | | 1.4 | 4. | 5 | 79.4 | 34.0 | 10.3 | 66.0 | nc |
| #16 | | 1.4 | 2. | 7 | 63.5 | 27.0 | 6.9 | 73.0 | 4 |
| #30 | | 1.3 | 2. | 3 | 45.6 | 19.6 | 7.4 | 80.4 | nc |
| #50 | | 1.2 | 2. | 1 | 21.0 | 9.5 | 10.1 | 90.5 | * |
| #100 | | 1.1 | 1. | | 5.5 | 3.1 | 6.4 | 96.9 | a : |
| LBW | | 0.9 | 1. | 7 | 0.6 | 1.0 | 2.1 | 99.0 | |



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Maximum % Retained must be above the 3/8" sieve. Any two adjacent sieves must equal 10% except max., om. max., #100 and #200 sieves. % Retained must be at least 4% for each sieve except max., om. max., #100 and #200 sieves. % Retained must be at least 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



| Coarseness Factor: 65 Workability Factor: 35 Sieve Cumulative % Passing % Cumulative % Retained 2" 100.0 0.0 0.0 1.5" 99.6 0.4 0.4 1" 83.9 15.7 16.1 3/4" 74.1 9.8 25.9 1/2" 64.3 9.7 35.7 3/8" 57.5 6.8 42.5 #4 44.5 13.1 55.5 #8 35.1 9.4 64.9 #16 27.9 7.2 72.1 #30 21.7 6.2 78.3 #50 12.6 9.1 87.4 #100 3.5 9.1 96.5 | Intial Production Sample (IPS) | | | | | | | | |
|--|--------------------------------|-----------------|----------|------------|--|--|--|--|--|
| Sieve Cumulative % Passing % Retained Cumulative % Retained 2" 100.0 0.0 0.0 1.5" 99.6 0.4 0.4 1" 83.9 15.7 16.1 3/4" 74.1 9.8 25.9 1/2" 64.3 9.7 35.7 3/8" 57.5 6.8 42.5 #4 44.5 13.1 55.5 #8 35.1 9.4 64.9 #16 27.9 7.2 72.1 #30 21.7 6.2 78.3 #50 12.6 9.1 87.4 | Coars | eness Factor: | 65 | | | | | | |
| Sieve % Passing Retained % Retained 2" 100.0 0.0 0.0 1.5" 99.6 0.4 0.4 1" 83.9 15.7 16.1 3/4" 74.1 9.8 25.9 1/2" 64.3 9.7 35.7 3/8" 57.5 6.8 42.5 #4 44.5 13.1 55.5 #8 35.1 9.4 64.9 #16 27.9 7.2 72.1 #30 21.7 6.2 78.3 #50 12.6 9.1 87.4 | Work | ability Factor: | 35 | | | | | | |
| % Passing Retained % Retained 2" 100.0 0.0 0.0 1.5" 99.6 0.4 0.4 1" 83.9 15.7 16.1 3/4" 74.1 9.8 25.9 1/2" 64.3 9.7 35.7 3/8" 57.5 6.8 42.5 #4 44.5 13.1 55.5 #8 35.1 9.4 64.9 #16 27.9 7.2 72.1 #30 21.7 6.2 78.3 #50 12.6 9.1 87.4 | Siovo | Cumulative | % | Cumulative | | | | | |
| 1.5" 99.6 0.4 0.4 1" 83.9 15.7 16.1 3/4" 74.1 9.8 25.9 1/2" 64.3 9.7 35.7 3/8" 57.5 6.8 42.5 #4 44.5 13.1 55.5 #8 35.1 9.4 64.9 #16 27.9 7.2 72.1 #30 21.7 6.2 78.3 #50 12.6 9.1 87.4 | Sieve | % Passing | Retained | % Retained | | | | | |
| 1" 83.9 15.7 16.1 3/4" 74.1 9.8 25.9 1/2" 64.3 9.7 35.7 3/8" 57.5 6.8 42.5 #4 44.5 13.1 55.5 #8 35.1 9.4 64.9 #16 27.9 7.2 72.1 #30 21.7 6.2 78.3 #50 12.6 9.1 87.4 | 2" | 100.0 | 0.0 | 0.0 | | | | | |
| 3/4" 74.1 9.8 25.9 1/2" 64.3 9.7 35.7 3/8" 57.5 6.8 42.5 #4 44.5 13.1 55.5 #8 35.1 9.4 64.9 #16 27.9 7.2 72.1 #30 21.7 6.2 78.3 #50 12.6 9.1 87.4 | 1.5" | 99.6 | 0.4 | 0.4 | | | | | |
| 1/2" 64.3 9.7 35.7 3/8" 57.5 6.8 42.5 #4 44.5 13.1 55.5 #8 35.1 9.4 64.9 #16 27.9 7.2 72.1 #30 21.7 6.2 78.3 #50 12.6 9.1 87.4 | 1" | 83.9 | 15.7 | 16.1 | | | | | |
| 3/8" 57.5 6.8 42.5 #4 44.5 13.1 55.5 #8 35.1 9.4 64.9 #16 27.9 7.2 72.1 #30 21.7 6.2 78.3 #50 12.6 9.1 87.4 | 3/4" | 74.1 | 9.8 | 25.9 | | | | | |
| #4 44.5 13.1 55.5 #8 35.1 9.4 64.9 #16 27.9 7.2 72.1 #30 21.7 6.2 78.3 #50 12.6 9.1 87.4 | 1/2" | 64.3 | 9.7 | 35.7 | | | | | |
| #8 35.1 9.4 64.9 #16 27.9 7.2 72.1 #30 21.7 6.2 78.3 #50 12.6 9.1 87.4 | 3/8" | 57.5 | 6.8 | 42.5 | | | | | |
| #16 27.9 7.2 72.1 #30 21.7 6.2 78.3 #50 12.6 9.1 87.4 | #4 | 44.5 | 13.1 | 55.5 | | | | | |
| #30 21.7 6.2 78.3 #50 12.6 9.1 87.4 | #8 | 35.1 | 9.4 | 64.9 | | | | | |
| #50 12.6 9.1 87.4 | #16 | 27.9 | 7.2 | 72.1 | | | | | |
| | #30 | 21.7 | 6.2 | 78.3 | | | | | |
| #100 3.5 9.1 96.5 | #50 | 12.6 | 9.1 | 87.4 | | | | | |
| | #100 | 3.5 | 9.1 | 96.5 | | | | | |
| LBW 1.2 2.4 98.8 | LBW | 1.2 | 2.4 | 98.8 | | | | | |

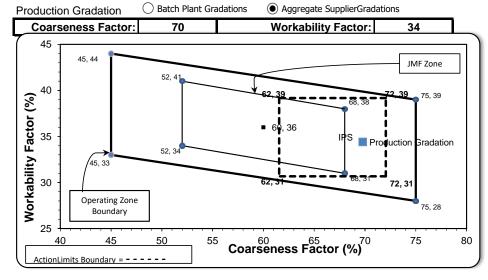
Approved By: Mart P. Ball

| PLANT #: P-C | | P-02 | | | | | Contractor: | |
|--------------|------------|--------------|--------------|-----------------|---------------------|-------------------------|-----------------|--------------------------|
| Sample Date | : | 11/7/22 | | | Concrete Grade: | P1M, 3500HP | | |
| Dates Test R | epresents: | 11/8/2022 | through | 11/14/2022 | | | MDOT No.: | |
| Agg. Class | Pit # | Source | Weight (SSD) | ft ³ | Specific Gravity | % Contribution | | |
| CA | 71-47 | Presque Isle | 950 | 5.81 | 2.62 | 30.9 | | |
| IA | 71-47 | Presque Isle | 870 | 5.32 | 2.62 | 28.3 | | |
| 2NS | 63-115 | Ray Rd | 1250 | 7.56 | 2.65 | 40.7 | | |
| | | Total Wt | 3070 | 18.69 | | 100.0 | < Verify this n | umber is 100% |
| Sieve | | CA | IJ | A | 2NS | Cumulative % Passing | % Retained | Cumulative % Retained |
| 2" | 1 | 00.0 | 10 | 0.0 | 100.0 | 100.0 | 0.0 | 0.0 |
| 1.5" | 1 | 00.0 | 10 | 0.0 | 100.0 | 100.0 | 0.0 | 0.0 |
| 1" | Į | 50.2 | 10 | 0.0 | 100.0 | 84.6 | 15.4 | 15.4 |
| 3/4" | | 12.6 | 97 | 7.1 | 100.0 | 72.1 | 12.5 | 27.9 |
| 1/2" | | 2.6 | 72 | 2.5 | 100.0 | 62.1 | 10.1 | 37.9 |
| 3/8" | | 2.2 45 | | 5.3 | 100.0 | 54.2 | 7.8 | 45.8 |
| #4 | | 2.2 | 10 |).1 | 96.9 | 43.0 | 11.2 | 57.0 |
| #8 | | 2.1 | 3 | .6 | 80.4 | 34.4 | 8.6 | 65.6 |
| #16 | | 2.1 | 2 | .6 | 65.3 | 28.0 | 6.4 | 72.0 |
| #30 | | 2.0 | 2 | .4 | 50.6 | 21.9 | 6.1 | 78.1 |
| #50 | | 2.0 | 2 | .2 | 28.1 | 12.7 | 9.2 | 87.3 |
| #100 | | 1.9 | 2 | .1 | 6.1 | 3.7 | 9.0 | 96.3 |
| LBW | | 1.6 | 1. | .9 | 0.7 | 1.3 | 2.3 | 98.7 |



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*Maximum % Retained must be above the 3/8" sieve. *Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves. *% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves. *% Retained must be at least 8% for the 1" sieve when a 2" max. size (nom. Max. 1.5") aggregate is used.



| Intial Production Sample (IPS) | | | | | | | | |
|--------------------------------|-----------------|----------|------------|--|--|--|--|--|
| Coars | eness Factor: | 67 | | | | | | |
| Work | ability Factor: | 35 | | | | | | |
| Sieve | Cumulative | % | Cumulative | | | | | |
| Sieve | % Passing | Retained | % Retained | | | | | |
| 2" | 100.0 | 0.0 | 0.0 | | | | | |
| 1.5" | 100.0 | 0.0 | 0.0 | | | | | |
| 1" | 85.0 | 15.0 | 15.0 | | | | | |
| 3/4" | 72.3 | 12.7 | 27.7 | | | | | |
| 1/2" | 64.5 | 7.8 | 35.5 | | | | | |
| 3/8" | 56.5 | 8.0 | 43.5 | | | | | |
| #4 | 42.7 | 13.8 | 57.3 | | | | | |
| #8 | 34.9 | 7.8 | 65.1 | | | | | |
| #16 | 29.0 | 5.9 | 71.0 | | | | | |
| #30 | 21.0 | 8.0 | 79.0 | | | | | |
| #50 | 8.2 | 12.8 | 91.8 | | | | | |
| #100 | 1.6 | 6.5 | 98.4 | | | | | |
| LBW | 0.7 | 0.9 | 99.3 | | | | | |

Approved By: Mart 1. Ball