

Clear Form

Michigan Department  
Of Transportation  
1903B (05/15)

# REPORT OF QUALITY ASSURANCE TESTING

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File 208

|                                                                      |                       |                                                                         |                                                                                                                                                                                                                                                     |                                     |                            |                                |
|----------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------|--------------------------------|
| CONTROL SECTION<br>STU 82000                                         | JOB NUMBER<br>205935A | PROJECT LOCATION<br>HMA Resurfacing 20+ Various Locations               | MIX DESIGN NO<br>18MD276                                                                                                                                                                                                                            | MIXTURE TYPE<br>4E3                 | DATE SAMPLED<br>10/01/19   | DATE TESTED<br>10/07/19        |
| CONTRACTOR<br>AJAX Paving Industries, Inc.                           |                       |                                                                         | PLANT NUMBER<br>20-10                                                                                                                                                                                                                               | PLANT LOCATION<br>Warren (Sherwood) |                            | SUBLOT SIZE<br>AM              |
| PROJECT ENGINEER<br>Richard T. Doherty - City of Detroit Engineering |                       | NAME OF TESTER (Please Print)<br>Brian Gondek - Somat Engineering, Inc. |                                                                                                                                                                                                                                                     | QUALIFICATION NO.<br>0383-0421      | LOT NUMBER<br>1            | SUB LOT NUMBER<br>1            |
| Gb<br>1.029                                                          | Gsb<br>2.710          | Gse<br>2.747                                                            | NAME OF TESTER (Signature)<br>Brian Gondek<br><small>Digitally signed by Brian Gondek<br/>DN: cn=Brian Gondek, o=Somat Engineering Inc., ou=Laboratory<br/>Supervisor, email=bgondek@somateng.com, c=US<br/>Date: 2019.10.14 12:45:52 -0400</small> |                                     | FORM 1911 DATE<br>09/30/19 | SUBLOT RANDOM<br>TONS<br>50.51 |
|                                                                      |                       |                                                                         |                                                                                                                                                                                                                                                     |                                     | ACCUMULATED TONS<br>677.94 |                                |

| TEST RESULTS       |        |        |       |                       |                         |         | TEST RESULTS                                                                     |          |      |                                   |                       |                         |             |
|--------------------|--------|--------|-------|-----------------------|-------------------------|---------|----------------------------------------------------------------------------------|----------|------|-----------------------------------|-----------------------|-------------------------|-------------|
|                    | JMF    | MDOT   | CONTR | MDOT<br>DIFF.<br>JMF* | MDOT<br>DIFF.<br>CONTR* | TOL     |                                                                                  | JMF      | MDOT | CONTR                             | MDOT<br>DIFF.<br>JMF* | MDOT<br>DIFF.<br>CONTR* | TOL         |
| P 1-½" (37.5 mm)   | 100.00 | 100.00 |       | 0.00                  | 100.00                  | +/- 5.0 | ASPHALT %                                                                        | 5.04     | 4.80 |                                   | -0.24                 | 4.80                    | -0.3 / +0.4 |
| P 1" (25.0 mm)     | 100.00 | 100.00 |       | 0.00                  | 100.00                  | +/- 5.0 | Gmm                                                                              | 2.534    |      |                                   |                       |                         |             |
| P ¾" (19.0 mm)     | 100.00 | 100.00 |       | 0.00                  | 100.00                  | +/- 5.0 | Gmb @ N DESIGN                                                                   | 2.445    |      |                                   |                       |                         |             |
| P ½" (12.5 mm)     | 95.60  | 92.34  |       | -3.26                 | 92.34                   | +/- 5.0 | AIR VOIDS                                                                        | 3.50     |      |                                   |                       |                         |             |
| P 3/8" (9.5 mm)    | 84.70  | 82.45  |       | -2.25                 | 82.45                   | +/- 5.0 | VMA                                                                              | 14.32    |      |                                   |                       |                         |             |
| P No. 4 (4.75 mm)  | 61.90  | 59.06  |       | -2.84                 | 59.06                   | +/- 5.0 | VFA                                                                              | 75.56    |      |                                   |                       |                         |             |
| P No. 8 (2.36 mm)  | 46.30  | 42.36  |       | -3.94                 | 42.36                   | +/- 5.0 | F/A RATIO                                                                        | 1.21     |      |                                   |                       |                         |             |
| P No. 16 (1.18 mm) | 34.40  | 34.35  |       | -0.05                 | 34.35                   |         |                                                                                  | GRADE    |      | CERTIFIED SUPPLIER/LOCATION/CERT# |                       |                         | % ADD       |
| P No. 30 (600 µm)  | 26.40  | 26.34  |       | -0.06                 | 26.34                   | +/- 4.0 | ASPHALT BINDER                                                                   | PG 58-28 |      | Ajax Terminal/Detroit/2500        |                       |                         | 3.69        |
| P No. 50 (300 µm)  | 14.10  | 15.75  |       | 1.65                  | 15.75                   |         | Gmb WEIGHTS/COMPACTION TEMPERATURE 270 degrees F                                 |          |      |                                   |                       |                         |             |
| P No. 100 (150 µm) | 8.40   | 8.64   |       | 0.24                  | 8.64                    |         |                                                                                  |          |      |                                   |                       |                         |             |
| P No. 200 (75 µm)  | 5.50   | 6.14   |       | 0.64                  | 6.14                    | +/- 1.0 | NUMBER OF SOLVENT WASHES (When using the vacuum extraction method for Asphalt %) |          |      |                                   |                       |                         |             |
| CRUSH – 1 FACE     | 96.9   | 97.1   |       | 0.2                   | 97.1                    | < 10%   |                                                                                  |          |      |                                   |                       |                         |             |
| CRUSH – 2 FACE     |        |        |       |                       |                         |         |                                                                                  |          |      |                                   |                       |                         |             |

REMARKS Sample Load: 14, Time: 12:45 PM, GPS Coordinates: 42.3678, -83.0789, Location: 3rd Ave near W Grand Blvd, Field Sampled by: Ryan Castillo

Within RANGE 1 tolerance limits for Leveling Course (12SP-501J-05 dated 07-05-16)

\*CIRCLE TEST RESULTS OUT OF TOLERANCE