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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>19MD140 | MIXTURE TYPE<br>5E3                 | DATE SAMPLED<br>11/10/19    | DATE TESTED<br>11/15/19    |
| CONTRACTOR<br>AJAX Paving Industries, Inc.                           |              |                       |                                                                                                                                                                                                                                                   | PLANT NUMBER<br>20-10    | PLANT LOCATION<br>Warren (Sherwood) |                             | SUBLOT SIZE<br>PM          |
| 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>2             | SUB LOT NUMBER<br>2        |
| Gb<br>1.029                                                          | Gsb<br>2.696 | Gse<br>2.763          | 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 Supervisor, email=bgondek@somateng.com, c=US<br/>Date: 2019.11.18 13:32:44 -05'00'</small> |                          | FORM 1911 DATE<br>09/30/19          | SUBLOT RANDOM<br>TONS 50.37 | ACCUMULATED TONS<br>854.30 |

| 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 %                                                                        | 6.15     | 6.35 |                                   | 0.20                  | 6.35                    | -0.3 / +0.4 |
| P 1" (25.0 mm)     | 100.00 | 100.00 |       | 0.00                  | 100.00                  | +/- 5.0 | Gmm                                                                              | 2.504    |      |                                   |                       |                         |             |
| P ¾" (19.0 mm)     | 100.00 | 100.00 |       | 0.00                  | 100.00                  | +/- 5.0 | Gmb @ N DESIGN                                                                   | 2.416    |      |                                   |                       |                         |             |
| P ½" (12.5 mm)     | 100.00 | 100.00 |       | 0.00                  | 100.00                  | +/- 5.0 | AIR VOIDS                                                                        | 3.50     |      |                                   |                       |                         |             |
| P 3/8" (9.5 mm)    | 99.50  | 99.60  |       | 0.10                  | 99.60                   | +/- 5.0 | VMA                                                                              | 15.90    |      |                                   |                       |                         |             |
| P No. 4 (4.75 mm)  | 83.50  | 81.63  |       | -1.87                 | 81.63                   | +/- 5.0 | VFA                                                                              | 77.99    |      |                                   |                       |                         |             |
| P No. 8 (2.36 mm)  | 62.20  | 62.27  |       | 0.07                  | 62.27                   | +/- 5.0 | F/A RATIO                                                                        | 1.17     |      |                                   |                       |                         |             |
| P No. 16 (1.18 mm) | 46.40  | 48.63  |       | 2.23                  | 48.63                   |         |                                                                                  | GRADE    |      | CERTIFIED SUPPLIER/LOCATION/CERT# |                       |                         | % ADD       |
| P No. 30 (600 µm)  | 34.80  | 34.51  |       | -0.29                 | 34.51                   | +/- 4.0 | ASPHALT BINDER                                                                   | PG 58-28 |      | Ajax Terminal/Detroit/2500        |                       |                         | 4.54        |
| P No. 50 (300 µm)  | 18.20  | 18.10  |       | -0.10                 | 18.10                   |         | Gmb WEIGHTS/COMPACTION TEMPERATURE 331 degrees F                                 |          |      |                                   |                       |                         |             |
| P No. 100 (150 µm) | 10.20  | 9.04   |       | -1.16                 | 9.04                    |         |                                                                                  |          |      |                                   |                       |                         |             |
| P No. 200 (75 µm)  | 6.20   | 6.94   |       | 0.74                  | 6.94                    | +/- 1.0 | NUMBER OF SOLVENT WASHES (When using the vacuum extraction method for Asphalt %) |          |      |                                   |                       |                         |             |
| CRUSH – 1 FACE     | 97.7   | 97.6   |       | -0.1                  | 97.6                    | < 10%   |                                                                                  |          |      |                                   |                       |                         |             |
| CRUSH – 2 FACE     |        |        |       |                       |                         |         |                                                                                  |          |      |                                   |                       |                         |             |

REMARKS Sample Load: 17, Time: 11:25 AM, Location: McClellan middle lane SB at Sylvester NB east approach, Field Sampled by: Andrew Patterson

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

\*CIRCLE TEST RESULTS OUT OF TOLERANCE