**OHIO DEPARTMENT of TRANSPORTATION**

**OFFICE of MATERIALS MANAGEMENT**

**COLUMBUS, OHIO**

**To: Lisa Zigmund, P.E., Administrator Attn: Charles Williams, Asphalt Conc. & Materials**

**ASPHALT PLANT INSPECTION REPORT**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of Plant:** |   | **PLT.** |   |
|  |  |  |  |
| **Location:** |   | **Code:** |   |
|  |  |  |  |
| **Date of Inspection:** | Click here to enter a date. | **Time:** |   |
|  |  |  |  |
| **Names of Personnel Attending Plant Inspection:** |   |
|  |  |  |   |
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| --- |
| **THE PRODUCER WAS NOTIFIED OF THE FOLLOWING ITEMS WARRANTING CORRECTIVE ACTION** |
| Click here to enter text. |
|  |

**OHIO DEPARTMENT of TRANSPORTATION**

**ASPHALT MATERIALS PLANT INSPECTION**

|  |  |  |  |
| --- | --- | --- | --- |
| **SUBMITTED BY:** |   | **DATE:** | Enter date. |
|  |  |  |  |
| **PLANT NAME:** |   | **PLANT #:** |   | **CMS:** |   |
|  |  |  |  |  |  |
| **PLANT ADDRESS:** |   |
|  |  |
| **CITY:** |   | **STATE:** |   | **ZIP CODE:** |   |
|  |  |  |  |  |  |
| **PLANT PHONE #:** |   | **LAB FAX #:** |   |
| **LAB PHONE #:** |   |  |  |  |
|  |  |  |  |  |
|  |  | **CONTRACTOR REP:** |   |

|  |  |  |  |  |  |  |  |  |
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| **1)** | **FIELD LAB** |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |   | **x** |   | **=** |   | **SQ. FT.** |  | **LOCATION:** |   |
|  |  |  |  |  |  |  |  |  |  |
| **2)** | **PERFORMANCE GRADE STORAGE TANKS** |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | **TANK #1** | **MAT.** |   | **GALLONS ON-HAND** |   | **CAP.** |   | **TESTED** | NO |
|  | **TANK #2** | **MAT.** |   | **GALLONS ON-HAND** |   | **CAP.** |   | **TESTED** | NO |
|  | **TANK #3** | **MAT.** |   | **GALLONS ON-HAND** |   | **CAP.** |   | **TESTED** | NO |
|  | **TANK #4** | **MAT.** |   | **GALLONS ON-HAND** |   | **CAP.** |   | **TESTED** | NO |
|  | **TANK #5** | **MAT.** |   | **GALLONS ON-HAND** |   | **CAP.** |   | **TESTED** | NO |
|  | **TANK #6** | **MAT.** |   | **GALLONS ON-HAND** |   | **CAP.** |   | **TESTED** | NO |
|  | **LOCATION of SAMPLE VALVE** |   | **TANKS NUMBERED** |   |
|  |  |  |  |  |  |  |  |  |  |
| **3)** | **FEEDERS** |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | **# OF COLD FEEDS** |   | **SIZE OF COLD BINS** |   | **SENSORS** |   | **MASTER** |   |
|  | **# OF RAP FEEDS** |   | **SIZE OF RAP BINS** |   | **SENSORS** |   |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **4)** | **DRIER** |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | **DRUM SIZE** |   | **x** |   |  | **NOTE:** |   |
|  | **MINI MIXER (SIZE)** |   | **x** |   |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **5)** | **DUST COLLECTOR/RETURN SYSTEM** |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | **EXPLAIN:** | Click here to enter text. |
|  |  |
|  |  |  |  |  |  |  |  |  |  |
| **6)** | **PLANT SYSTEM & PRINTER(S)** |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | **EXPLAIN:** | Click here to enter text. |
|  |  |
|  |  |  |  |  |  |  |  |  |
| **7)** | **TRUCK FACILITIES** |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | **SAMPLING PLATFORM** |   | **LIGHTED** |   |  |  |  |
|  | **BED-SPRAY PLATFORM** |   | **LIGHTED** |   |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
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| **8)** | **SILOS/SURGE BINS** |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | **SURGE BIN** | **MAKE** |   | **SIZE** |   | **DATE SEALED** | Date |
|  | **SILO #1** | **MAKE** |   | **SIZE** |   | **DATE SEALED** | Date |
|  | **SILO #2** | **MAKE** |   | **SIZE** |   | **DATE SEALED** | Date |
|  | **SILO #3** | **MAKE** |   | **SIZE** |   | **DATE SEALED** | Date |
|  | **SILO #4** | **MAKE** |   | **SIZE** |   | **DATE SEALED** | Date |
|  | **HEATED** |   | **INSULATED** |   |  |  |
|  |  |  |  |  |  |  |
| **9)** | **TRUCK PLATFORM SCALE** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | **SCALE** | **MAKE** |   |
|  |  | **LOAD OUT** | **MAKE** |   |
|  |  | **DIGITAL READOUT** | **MAKE** |   |
|  |  | **PRINTER** | **MAKE** |   |
|  |  |  |  |  |  |  |  |  |  |
|  |  | **SIZE** |   | **x** |   |  | **CAPACITY** |   | **LBS.** |
|  |  | **TESTED** | Date | **BY:** |   |
|  |  |  |  |  |  |  |  |  |  |
| **10)** | **BITUMINOUS MATERIAL BUCKET** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | **MAKE** |   | **CAPACITY** |   | **LBS.** |  |  |
|  |  | **TESTED** | Date | **BY:** |   |
|  |  |  |  |  |  |  |  |  |  |
| **11)** | **BITUMINOUS MATERIAL SCALE** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | **CAPACITY** |   | **LBS.** |  | **MINIMUM GRADE** |   | **LB(S)** |  |
|  |  | **TESTED** | Date | **BY:** |   |
|  |  |  |  |  |  |  |  |  |  |
| **12)** | **AGGREGATE SCALE** |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | **CAPACITY** |   | **LBS.** |  | **MINIMUM GRADE** |   | **LB(S)** |  |
|  |  | **TESTED** | Date | **BY:** |   |
|  |  |  |  |  |  |  |  |  |  |
| **13)** | **50 LB TEST WEIGHTS** |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | **NUMBER** |   | **TESTED** | Date | **BY:** |   |
|  |  |  |  |  |  |  |  |  |  |
| **14)** | **WEIGH BOX** |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | **CAPACITY** |   | **LBS.** |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **15)** | **MIXER** |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | **MAKE** |   |  | **CAPACITY** |   | **LBS.** |
|  |  | **SIZE** |   |  |  |  | **AREA OF HEATED JACKET** |   | **SQ INS.** |
|  |  | **DEPTH TO C/L SHAFT** |   | **INS.** |  | **C/L SHAFT TO BOTTOM** |   | **INS.** |
|  |  | **NUMBER OF TIPS** |   |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **16)** | **HOT AGGREGATE BINS** |  |  |  |  |  |  |  |
|  |  |  | **BIN 1** |  | **BIN 2** |  | **BIN 3** |  | **BIN 4** |
|  |  | **CAPACITY (TONS)** |   |  |   |  |   |  |   |
|  |  |  |  |  |  |  |  |  |  |
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| **17)** | **SCREEN UNIT** |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | **MAKE** |   | **SIZE** |   | **FT. x** |   | **FT.** |
|  |  |  |  |  |  |  |  |  |
|  | **NUMBER OF DECKS** |   | **SCREEN OPENINGS** |   | **INS. @** |   | **INS. IN LENGTH** |
|  |  |  |  |   | **INS. @** |   | **INS. IN LENGTH** |
|  |  |  |  |   | **INS. @** |   | **INS. IN LENGTH** |
|  |  |  |  |   | **INS. @** |   | **INS. IN LENGTH** |
|  |  |  |  |   | **INS. @** |   | **INS. IN LENGTH** |
|  |  |  |  |  |  |  |  |
| **18)** | **WARM MIX ASPHALT (WATER INJECTION ONLY)** |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | **IS PLANT EQUIPPED WITH WMA WATER INJECTION SYSTEM?** |   |
|  |  | **MANUFACTURER** |   |  |  |
|  |  |  |  |  |  |  |  |
|  | **ARE INJECTION EQUIPMENT COMPUTER CONTROLS IN THE PLANT CONTROL ROOM AND TIED TO THE PLANT COMPUTER METERING?** |   |
|  |  |  |
|  | **DOES INJECTION EQUIPMENT HAVE VARIABLE WATER INJECTION CONTROLLED BY THE PLANT OPERATION RATE? (CANNOT EXCEED 2.2% BY WEIGHT OF BINDER)** |   |
|  |  |  |
|  | **IS THE WATER INJECTION RATE UNABLE TO BE MANUALLY OVERRIDDEN BY THE PLANT OPERATOR ONCE IN THE COMPUTER?** |   |
|  |  |  |
|  | **DOES INJECTION EQUIPMENT STOP FLOW WHEN A CONTROL OR EQUIPMENT FAILURE IN THE INJECTION SYSTEM OCCURS?** |   |
|  |  |  |
|  | **DOES INJECTION EQUIPMENT INCLUDE WATER STORAGE AND PUMP TIED TO THE INJECTION COMPUTER CONTROLS?** |   |
|  |  |  |
|  | **IS A WATER STORAGE LOW ALARM INSTALLED IN CONTROL ROOM?** |   |
|  |  |  |
|  | **HAS A PG BINDER SAMPLING VALVE BEEN INSTALLED TO SAMPLE BINDER BEFORE AND AFTER WATER INJECTION?** |   |
|  |  |  |
|  | **HAS WATER INJECTION SYSTEM BEEN PREVIOUSLY APPROVED FOR USE BY ODOT?** |   |

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| **19)** | **SBR MODIFICATION AT ASPHALT PLANT** |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | **FOR DRUM PLANTS, ASTEC IN-LINE BLENDER OR SIMILAR DESIGN APPROVED BY OMM?** |   |
|  |  | **MANUFACTURER** |   |  |  |
|  |  |  |
|  | **FOR DRUM PLANTS, SAMPLING VALVE IS BETWEEN IN-LINE BLENDER AND DRUM AT LEAST 12 FT DOWNSTREAM OF BLENDER AND AT LEAST 5 FT DOWNSTREAM OF PIPING ELBOW?** |   |
|  |  |  |
|  | **SAMPLING VALVE PORT IS AT LEAST 1 IN. (2.54 CM) IN DIAMETER?** |   |
|  |  |  |
|  | **SAMPLING VALVE IS ABLE TO BE COMPLETELY OPENED QUICKLY?** |   |
|  |  |  |
|  | **FOR DRUM PLANT, IF NO IN-LINE SAMPLING VALVE IS THERE A SURGE TANK OF AT LEAST 3-5 GALLONS DOWNSTREAM OF IN-LINE BLENDER AND IN-LINE FLOW CAN QUICKLY BE DIVERTED TO SURGE TANK?** |   |
|  |  |  |
|  | **HAVE CLEAN, METAL 5-GALLON BUCKETS AND STIR ROD OR SPOON ON SITE?** |   |
|  |  |  |
|  | **SBR METER IS A MAGNETIC FLOW METER CONSISTING OF A METERING FLOW TUBE WHICH UTILIZES FARADAY’S LAW OF INDUCTION TO MEASURE THE FLOW?** |   |
|  |  | **MANUFACTURER** |   |  |  |
|  |  |  |
|  | **SBR METER WITH TRANSMITTER ABLE TO TRANSMIT THE FLOW SIGNAL TO A TOTALIZER LOCATED IN CONTROL ROOM AT ASPHALT PLANT?** |   |
|  |  |  |
|  | **SBR METER IS ACCURATE TO +/- 2.0% OVER A FLOW RANGE TYPICALLY USED AT THE ASPHALT PLANT (TYPICALLY 0.8 TO 12 GPM AT DRUM PLANT AND 10-25 GPM AT BATCH PLANT)?** |   |
|  |  |  |
|  | **SBR METER HAS A DATA LOGGER WHICH PRODUCES PRINTOUTS OF LOGGED DATA EVERY 5 MINUTES FOR A DRUM PLANT OR EVERY BATCH FOR A BATCH PLANT?** |   |
|  |  |  |
|  | **PRINTABLE LOGGED DATA INCLUDES TIME, DATE, FLOW RATE (NOT REQUIRED FOR BATCH PLANT), AND FLOW TOTAL?** |   |
|  |  |  |  |  |  |  |  |
| **20)** | **GENERAL CONDITION** |   |
|  |  |  |  |  |  |  |  |
|  | **TOILET ON SITE** |   | **DRINKING WATER ON SITE** |   |  |  |

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| **LEVEL 2 LAB REQUIRED EQUIPMENT** |
|  |  |  |  |
|[ ]  **ELECTRICAL CENTRIFUGE, 3000 GRAM CAPACITY** | **MAKE:** |   |
|[ ]  **NESTED SIEVES 8” OR 12” ROUND MEETING REQUIREMENTS OF ASTM E 11** |
|[ ]  **MECHANICAL SHAKER** | **MAKE:** |   |
|[ ]  **IGNITION OVEN** | **MAKE:** |   |
|[ ]  **OVENS CAPABLE OF MAINTAINING UNIFORM TEMPERATURE OF 200-320 °F AND 355 +/- 20 °F** |
|  | **MAKE & MODEL:** |   |
|  | **MAKE & MODEL:** |   |
|  | **MAKE & MODEL:** |   |
|[ ]  **TROXLER 3241-C ASPHALT CONTENT NUCLEAR GAUGE AND PRINTER** |
|[ ]  **EIGHT AC GAUGE PANS** |
|[ ]  **DIGITAL BALANCES MEETING APPROPRIATE SPECIFICATIONS (MINIMUM 10,000g x 0.1g and 100g x 0.01g)** |
|  | **MAKE & MODEL:** |   | **CAPACITY:** |   | **GRAMS** |
|  | **MAKE & MODEL:** |   | **CAPACITY:** |   | **GRAMS** |
|  | **MAKE & MODEL:** |   | **CAPACITY:** |   | **GRAMS** |
|[ ]  **PANS MADE OF NON CORROSIVE MATERIAL** |
|[ ]  **HOT PLATES** |
|  | **MAKE:** |   | **RANGE:** |   |
|  | **MAKE:** |   | **RANGE:** |   |
|[ ]  **1000 ML MINIMUM GRADUATE** |
|[ ]  **THERMOMETER ASTM 17 C** |
|[ ]  **LABORATORY STYLE TIMER WITH AUDIBLE WARNING AND VISIBLE TIMING** |
|[ ]  **MARSHALL SPECIMEN COMPACTOR, AUTOMATIC & CALIBRATED** | **MAKE & MODEL:** |   |
|[ ]  **MARSHALL SPECIMEN MOLDS AND EXTRACTOR** |
|[ ]  **GYRATORY MOLDS AND COMPACTOR WITH STICKER SHOWING DATE AND VALUES OF THE ANNUAL INTERNAL ANGLE CALIBRATION (1.16 +/- 0.02) AND EXTERNAL ANGLE MEASUREMENT (1.25 +/- 0.02)** |
|[ ]  **MEANS TO MAINTAIN ROOM TEMPERATURE BETWEEN 68 °F & 86 °F** |
|[ ]  **MINIMUM FLOOR AREA OF 250 SQUARE FEET, WITH A DESK FOR BOTH TECHNICIAN AND MONITOR** |
|[ ]  **CONTRACTOR QUALITY CONTROL PROGRAM** |
| **BULK SPECIFIC GRAVITY DETERMINATION APPARATUS** |
|[ ]  **WATER BATH WITH CLEAN WATER INCLUDING A SWITCHED SUITABLE HEATER AND SWITCHED CIRCULATOR WIRED TO A PROPERLY FUNCTIONING GROUND FAULT INTERRUPT OUTLET** |
|[ ]  **SUITABLE APPARATUS FOR WEIGHING OF SPECIMENS SUSPENDED IN WATER WITH SINGLE WIRE OR FISH LINE** |
| **MAXIMUM SPECIFIC GRAVITY DETERMINATION APPARATUS** |
|[ ]  **VACUUM PUMP** |  | **MAKE & MODEL:** |   |
|[ ]  **MANOMETER** |  | **MAKE & MODEL:** |   |
|[ ]  **TABLETOP MECHANICAL VIBRATION DEVICE CAPABLE OF HOLDING METAL PYCNOMETER** |
|[ ]  **CONTAINER WILL BE A 4000 ML MINIMUM METAL PYCNOMETER** | **CAPACITY:** |   |
|[ ]  **WATER BATH SUITABLE FOR IMMERSING CONTAINER** |
|[ ]  **12” DIAMETER FULL HEIGHT #50 OR #100 SIEVE** |
|[ ]  **PORTABLE 120V FAN WITH A MINIMUM 12” DIAMETER** |
|[ ]  **TEST WATER “DE-AIRED”** |
| **ASH DETERMINATION APPARATUS** |
|[ ]  **BUNSEN BURNER AND MUFFLE FURNACE WITH TEMPERATURE RANGE OF500°C TO 600°C OR IGNITION OVEN** |
|  | **MAKE & MODEL:** |   |
|[ ]  **CRUCIBLE CAPABLE OF 100 ML ASH CORRECTION** |
|[ ]  **100 ML GRADUATE OR CALIBRATED DIPPER** |
| **EQUIPMENT CALIBRATIONS** |
|[ ]  **EQUIPMENT CALIBRATION DATA FURNISHED AND VERIFIED** |

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| --- | --- | --- | --- |
| **PRODUCER** |   |  |  |
| **LOCATION** |   |  |  |
| **P/S CODE** |   |  |  |
| **DATE** | Date | **INSPECTOR** |   |