

**DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
ACTIVITY REPORT: Scheduled Inspection**

B582344899

FACILITY: AJAX MATERIALS CORP		SRN / ID: B5823
LOCATION: 7392 KENSINGTON RD, BRIGHTON		DISTRICT: Lansing
CITY: BRIGHTON		COUNTY: LIVINGSTON
CONTACT: Mike Herzfeld , Assist. Plant Operator		ACTIVITY DATE: 06/26/2018
STAFF: Daniel McGeen	COMPLIANCE STATUS: Compliance	SOURCE CLASS: SM OPT OUT
SUBJECT: Unannounced, scheduled inspection, conducted as a Partial Compliance Evaluation (PCE) activity, part of a Full Compliance Evaluation (FCE).		
RESOLVED COMPLAINTS:		

On 6/26/2018, the Michigan Department of Environmental Quality (DEQ), Air Quality Division (AQD), conducted an unannounced, scheduled inspection of the brand new Hot Mix Asphalt (HMA) plant known as Ajax materials Plant 6. This inspection was conducted as a Partial Compliance Evaluation (PCE) activity, part of a Full Compliance Evaluation (FCE).

Environmental contacts:

Mike Herzfeld, Assistant Plant Operator, Ajax Materials Corp. Plant 6; 248-244-3448;
mherzfeld@ajaxpaving.com

Kathleen Anderson: President, Axis Environmental Consulting Corp.; 810-845-3925;
kanderson@ajaxpaving.com

Facility description:

This facility is a brand new Hot Mix Asphalt (HMA) plant, equipped with a counterflow drum dryer, and a truck loadout and silo control system. It also has a cyclone, a larger baghouse, and an exhaust stack taller than the previous plant had. The facility has a paved yard area, and paved roadways. There are also aggregate storage piles onsite, and unpaved yard areas. The old plant has been removed.

Emission units:

Emission Unit ID	Emission unit description	Permit or exemption	Operating status
EUHMAPLANT	Hot Mix Asphalt (HMA) facility including: Aggregate conveyors, 500 tons per hour counterflow drum mix plant, and fabric filter dust collector. HMA includes Warm Mix Asphalt.	PTI No. 76-17	Compliance
EUYARD	Fugitive dust sources including: Plant roadways, plant yard, material storage piles, and material handling operations (excluding cold feed aggregate bins).	PTI No. 76-17	Compliance
EUACTANKS	Liquid asphalt cement (AC) tanks, with vapor condensation and recovery systems.	PTI No. 76-17	Compliance
EUSILOS	HMA paving material product storage silos.	PTI No. 76-17	Compliance
FGFACILITY	All process equipment source-wide, including equipment covered by other permits, grandfathered equipment, and exempt equipment.	PTI No. 76-17	Compliance

Regulatory overview:

This brand new facility has an opt-out permit, Permit to Install (PTI) No. 76-17, which limits the facility's potential to emit (PTE) for carbon monoxide (CO). CO is the limiting pollutant; that is, the criteria pollutant which the plant has the highest potential to emit (PTE). The other criteria pollutants have lower PTE, and thus TPY permit limits were not needed. These pollutants include nitrogen oxides (NOx), sulfur dioxides (SO2), volatile organic compounds (VOC), particulate matter (PM), and lead. Lead emissions are limited in the PTI from an air toxics standpoint. Limiting the plant's PTE for CO keeps it from becoming a major source subject to the Renewable Operating Permit program. The facility is not considered to be a major source for Hazardous Air Pollutants (HAPs), because it does not have the PTE to emit 10 TPY or more of a single HAP, nor the PTE to emit 25 TPY or more of all HAPs combined.

The plant is subject to 40 CFR Part 60, Subpart I, *Standards of Performance for Hot Mix Asphalt Facilities*. This is also known as the New Source Performance Standards (NSPS) for HMA plants. The plant is scheduled to undergo required NSPS particulate and opacity testing, on 8/29/2018.

The PTI No. 38-90C, for the previous plant at this site, has been voided, following notice by the company on 5/17/2018 of the startup of the new plant. The previous plant has been removed from the site.

Fee status:

This facility is not classified as a Category I fee source, because it is not a major source, for either criteria pollutants or HAPs. Because it is subject to an NSPS (Subpart I), the facility is classified as a Category II fee source. It is not subject to one of the National Emissions Standards for Hazardous Air Pollutants, and so is not classified as a Category III fee source. Each year, the company has reported annual production and emissions through the Michigan Air Emission Reporting System (MAERS) for the previous plant at this site, now removed. The MAERS reporting is required to be done for the newly installed plant.

Location:

This facility is located in an industrial park, at the west end of Ajax Drive, a private drive off of the west side of Kensington Road. To the north are several industries of various types, including a concrete batch plant. To the east are a few industries along Ajax Drive, including another aggregate industry, a concrete crusher. Further east is land which is part of a state park. To the west is a solid waste transfer station. Further west there is wooded land which is part of a state park. To the south are businesses, and residential areas. The closest residences to the HMA plant are roughly 1,400 feet to the southwest, and 2,000 feet to the southeast. There is a housing development to the southeast, and an industrial park.

Plant history:

An HMA plant with a parallel flow drum dryer was permitted at this site in 1979, under PTI No. 254-79. The permit underwent minor revisions, to allow for use of RAP, to change a fan location, and a modification to a venturi scrubber. The drum dryer was kept when the plant received a new PTI, No. 38-90, for replacement of the venturi scrubber and a demister with a baghouse. That PTI underwent revisions to allow for the use of Nos. 2 through 6 fuel oils and Recycled Used Oil (RUO) as fuels for the drum dryer, and to revise the Compliance Monitoring Plan for RUO.

During the years 2000 through 2012, no air pollution complaints were received, regarding the existing parallel flow drum plant under PTI No. 38-90C. Starting in 2013, AQD began to receive intermittent complaints, attributing odors, downwashing visible emissions from the exhaust stack, and fallout of particulate emissions to this plant. AQD has investigated these complaints. Fallout samples have been collected by AQD staff, but results have been inconclusive. Odors have been detected offsite, but the odor levels experienced by staff have not been sufficient to constitute a violation of Rule 901(b), which prohibits unreasonable interference with the comfortable enjoyment of life and property.

On 5/11/2017, AQD received PTI Application No. 76-17, to replace the existing HMA plant with a new, state-of-the-art HMA plant. The permit application underwent the New Source Review process, and a public comment period was held, in which the US EPA submitted comments. AQD addressed the comments that were made, and the new PTI, No. 76-17, was issued on 11/3/2017.

The new plant includes a counterflow drum dryer, a drum design type which has proven effective at eliminating blue smoke emissions and reducing odor levels offsite, in AQD's experience, when replacing HMA plants equipped with parallel flow drum dryers. The new plant also has a truck loadout and silo control system, to capture and control emissions from those areas of the plant, which the previous plant did not have. It also has a cyclone, and a larger baghouse, rated at 110,000 air cubic feet per minute (acfm). The baghouse exhausts to a 120 foot tall stack. It is my understanding that the previous stack was 70 feet tall, although one facility contact has said that it was 60 feet.

Stack testing:

Stack testing of this new HMA plant is required pursuant to the NSPS Subpart I, and the PTI. Testing for NSPS particulate and opacity is scheduled for 8/29 or 8/30/2018, weather allowing

Safety attire required:

Hard hats, safety glasses with side shields, steel-toed boots, and high visibility safety vests.

Arrival:

AQD was represented today by Ms. Samantha Braman, who was the AQD Lansing District's newest air inspector, and by myself. This was an unannounced compliance inspection of a brand new plant, which AQD had not yet seen in operation.

As we drove south on Kensington Road, we conducted an odor evaluation to determine if there were any offsite odor impacts. Please see attached odor evaluation form, map, and summary of weather data.

We turned west from Kensington Road, onto a side road into an industrial park. Kensington Road roughly parallels Ajax Drive, about 1,200 feet to the north. Near the western end of that road, we stopped at a turn around, and exited the car, about 1,400 feet northwest of the HMA plant. S. Braman and I both detected a brief, barely detectable asphalt odor at 9:57 AM. At 9:59 AM, we detected intermittent asphalt odors, at a distinct and definite level. We drove southwards, into the parking lot of a nearby industry, General Chemical Corporation. We were again able to detect intermittent distinct and definite asphalt odors, about 1,600 feet to the west northwest of the plant. Distinct and definite corresponds to a level 2 on the AQD 0 to 5 odor scale; please see below.

The 0 to 5 odor scale used by AQD is as follows:

Level	Description
0	Non-detect
1	Just barely detectable
2	Distinct and definite
3	Distinct and definite objectionable odor
4	Odor strong enough to cause a person attempt to avoid it completely
5	Odor so strong as to be overpowering and intolerable for any length of time

These odors which we detected offsite were determined to be insufficient at this time to constitute a violation of Rule 901(b), which prohibits unreasonable interference with the comfortable enjoyment of life and property.

We arrived at the plant at 10:15 AM. The plant was running at the time. There was an attached steam plume from the plant exhaust stack, with no discoloration, and with no particulate emissions after the steam plume breakoff point.

Onsite roadways had been rearranged, to accommodate the new plant. We went to the first second floor of the new office onsite, where a QA/QC lab is. They directed us to go to the control room, which is on the second floor. We provided our identification/credentials, per AQD procedure, and introduced ourselves to the new Primary Plant Operator, Mr. Steve Neifert, and to a contractor who was visiting the site. We explained the reason for the inspection. Before long, we were joined by Mr, Mike Herzfeld, who has been the regular operator for the previous plant, and is now the Assistant Plant Operator for the new plant.

Inspection:

Operating data collected during the inspection was as follows:

Time	10:52 AM
Mix type	3C
Production rate TPH	466
Virgin aggregate TPH	244
Virgin agg. % moisture	3.0
Virgin agg. components	<ul style="list-style-type: none"> • 31 TPH Zeeb Rd. • 35 TPH 2 NS • 66 TPH 3/8 X 4 • 110 TPH 1/2 X 3/4
SHRAP TPH	210
SHRAP % moisture	2.2
SHRAP % of total mix	45.06
Grade liquid AC	PG 64-28
Liquid AC TPH	10.3
% of raw AC (liquid)	4.82
Raw mix TPH	14.0
Liquid AC temperature deg. F	297
Mix temperature deg. F	310
Draft through drum dryer " w.c.	0.25-0.8
Baghouse temperature deg. F	258
Baghouse pressure drop " w.c.	2.5
Stack temperature deg. F	241

Fugitive emissions check:

Source	Fugitive emissions?
Drum dryer	None
Burner	None
Virgin aggregate feed system	None
Virgin aggregate screen deck	None
RAP/SHRAP feed system	None
Ductwork	None
Cyclone	None
Baghouse	None
Liquid AC tanks w/condensers	None
RUO tank	None, tank not installed yet
Drag slat conveyor	None
Top of silos	Minor steam
Truck loadout	Minor puff of emissions; see report
Paved roadways	Minor; see report
Unpaved roadways	Minor; see report

The virgin aggregate and RAP conveyors both had wind covers along certain sections, which should help prevent fugitive dust emissions.

AQD does not regulate noise issues, but would occasionally receive noise complaints about the previous plant at this site, which had an open flame burner. Mr. Herzfeld explained that the new plant has a Mega Star burner which is so quiet, people can hold a conversation near it. The new burner was so quiet that we did not feel a need to wear hearing protection while standing several feet from it.

A compliance check with the Special Conditions of PTI No. 76-17 follows.

Special Conditions for EUHMAPLANT:

I. EMISSION LIMITS

This condition specifies 21 emission limits in a table. Stack testing would be required in order to verify compliance with these limits. The facility will undergo stack testing for the NSPS particulate limit, scheduled to be later this summer, in August.

Testing of 13 different toxic air contaminants (TACS) is not automatically required in the newest HMA permits, including this one. The reason for this is that from 2000 through 2012, AQD had 17 different HMA plants undergo stack testing for multiple TACs. The test results were reviewed by AQD. It was found that the emission factors in the HMA permit template are reasonable factors and that an adequate compliance margin existed. Thus, the mandatory testing requirements are no longer included in new HMA permits. The 6/1/2012 AQD document *Eliminating the Mandatory Testing Requirement for Toxic Air Contaminants for Hot Mix Asphalt Plants in Michigan* provides a detailed overview of this subject. This document is included in the engineer's evaluation document for PTI No. 76-17.

II. MATERIAL LIMITS

1. The facility is prohibited from burning any fuel other than natural gas, propane, Fuel Oils Nos. 2 through 6, and recycled used oil (RUO) in EUHMAPLANT. The facility was burning natural gas at this time, and there are no plans to burn RUO in the foreseeable future, I was told. There is a tank for RUO onsite, if they should ever want to use it. Mr. Herzfeld indicated that the piping is not connected for the RUO tank, nor is the pump.
2. The permittee is prohibited from burning in EUHMAPLANT any hazardous waste, blended fuel oil or RUO containing any contaminant that exceeds the following concentrations or for which the flash point, or ash content, vary from the standards in the following table.

Contaminant	Limit	Units
Arsenic	5.0	ppmw
Cadmium	2.0	ppmw
Chromium	10.0	ppmw
Lead	100.0	ppmw
PCBs	1.0	ppmw
Total Halogens	4000.0	ppmw
Sulfur	1.5	Weight %
Minimum Flash Point	100.0	Deg. F
Maximum Ash Content	1.0	Weight %

As previously mentioned, the facility has no plans to burn RUO as fuel in the foreseeable future. The facility has expressed no interest in burning any fuel other than natural gas at this time.

3. The permittee is prohibited from using any asbestos tailings or waste materials containing asbestos. It is my understanding that they do not use any asbestos tailings or any waste materials containing asbestos.
4. The RAP content of the asphalt mixture is limited to a maximum of 50% RAP/RAS, based on a monthly average. The content of RAP mixed with recycled shingle material today, known as SHRAP, was said to be 45%, below the 50% limit. The instantaneous data I collected today was calculated out to be 45.06%, indicating compliance with this condition.
5. Production is limited to no more than 895,000 tons of HMA in EUHMAPLANT per 12-month rolling time period, as determined at the end of each calendar month. This plant began operating this spring. Mr. Herzfeld provided a production report, attached from the start of the season through yesterday 6/25/2018. The report indicated that from trial operation of the new plant on 5/17 through yesterday, 80,631.40 tons of product had been made. The total production for the 2018 operating year will be provided to AQD in the form of the MAERS report for the 2018 operating year, in early 2019.
6. The plant is prohibited from a production rate of more than 500 tons per hour (TPH) of HMA, based on a daily average, to be determined by dividing the daily HMA production by the daily operating hours.

The instantaneous production rates I recorded during the inspection was 466 TPH, well below the permitted maximum.

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The facility is required to implement and maintain the Fugitive Dust Control Plan for EUYARD, specified in Appendix A of the PTI. Mr. Herzfeld provided a copy of their year to date road maintenance activities, please see attached. It lists the dates on which road and yard areas were swept and/or watered. It also provides the dates when calcium chloride was used. On 6/8/2018, calcium chloride was applied to the yard area, the record indicates.

Overall, it appeared that the facility was following their fugitive dust plan appropriately.

There were places where signs of calcium chloride were still visible on unpaved roadways or yard areas, from a previous dust control application. During the inspection, I noted that there was a small amount of fugitive dust being stirred up the wheels of a front end loader and trucks. I asked if they would be applying water to unpaved roadways today. I was informed that it would rain tonight/tomorrow, but the next day, 8/28 they would try to have calcium chloride applied. I was advised that they are considering installing a sprinkler system which would water the paved onsite roadway, in addition to watering the lawn of the facility.

2. The permittee is required to implement and maintain the Preventative Maintenance Program specified in Appendix B of the PTI. I was informed by plant staff that because the plant is brand new, they have not had to perform any plant maintenance activities, yet.

Appendix B requires a black light test at least once per year, prior to operations beginning for a paving season. Ms. Kathleen Anderson, Environmental Consultant for Ajax Materials, indicated in a 9/5/2018 e-mail that they did perform a black light test and baghouse inspection after the new baghouse and the filters (filter bags) were installed. Please see attached records of black light testing results, and of the baghouse inspection diagram showing that 924 all new bags were installed in 2018.

3. The permittee shall not operate unless the emission abatement plan for startup, shutdown, and malfunctions specified in Appendix C is implemented and maintained. I have been advised that they follow this.

4. The permittee is required to implement and maintain the Compliance Monitoring Plan (CMP) for RUO specified in Appendix C of the PTI, or an alternate approved plan. I was informed that they do not burn RUO in the new plant, and have no plans to do so, in the foreseeable future.

5. The permittee is require to maintain the efficiency of the EUHMAPLANT drum mix burner(s), to control CO emissions, by fine tuning the burners. This is to be done at the start of the paving season, or upon a malfunction of EUHMAPLANT as shown by the CO emission monitoring data.

Pursuant to a request I made, I was sent an example of CO data, which was collected by Ms. Anderson on 5/18/2018. Please see below:

CO Reading number	Time on 5/18/2018	CO reading in parts per million (ppm)
1	11:21 AM	225
2	11:24 AM	157
3	11:28 AM	99
4	11:31 AM	95
5	11:32 AM	90
6	11:44 AM	102
7	11:50 AM	94
8	11:55 AM	83
9	12:01 PM	80

TPH: 400

RAP: 33%
Mix code: 5 E3

IV. DESIGN/EQUIPMENT PARAMETERS

1. The fabric filter dust collector, or baghouse, is required to be installed, maintained, and operated in a satisfactory manner. Satisfactory operation is said to require a pressure drop range between 2 and 10 inches of water column (w.c.), and the minimum pressure drop is prohibited from being less than 2 inches w.c., except when a large number of bags have been replaced or other reason acceptable to AQD. Currently, pressure drop was 2.5 inches w.c., within the acceptable range.

During the inspection, there were no visible emissions (other than steam) from the baghouse exhaust stack. The instantaneous reading obtained from the control room computer monitors 2.5 inches, w.c.. The baghouse appeared to be operating properly, at this time. All of the fabric filter bags were brand new. It is my understanding that there are 924, total. We were shown an example of a bag, in a shop trailer, as an example of the spare parts they keep in inventory. The Dust-Eater brand baghouse uses a pulse jet cleaning mechanism to clean an entire row of bags at a time, we were told.

After the inspection, I e-mailed Ms. Anderson, to inquire about black light testing this year. I was advised that black light testing was conducted on 5/20/18, along with a baghouse inspection, after installation of the baghouse and filters (the 924 bags themselves). Please see attached records of these activities.

V. TESTING/SAMPLING

1. EUHMAPLANT is required to undergo stack testing for particulate emission rates within 60 days after achieving maximum production rate of HMA, but not later than 180 days after commencing trial operation, pursuant to 40 CFR Part 60, Subpart I, Standards of Performance for Hot Mix Asphalt Facilities. Stack testing for NSPS particulate rates and opacity is scheduled to take place beginning on 8/29 or 8/30/2018, weather allowing, and will be observed by AQD.

The company is required to notify the AQD District Supervisor in writing, within 15 days of the date of commencement of trial operations. On 5/25/2018, AQD received a 5/21 letter from Mr. Mark E. Boden, Vice President of Ajax Materials, advising us that trial operations commenced for the new facility on 5/17. No less than 30 days prior to testing, a complete test plan, including a testing schedule, is required to be submitted to AQD. On 6/8/2018 AQD received a stack test protocol from Derenzo Environmental Services (DES), for stack testing initially proposed for 8/7/2018, weather depending, so this condition was met. The stack testing was later moved back to 8/29 or 8/30/2018, due to lack of enough production scheduled for 8/7.

2. This condition states that verification and quantification of emissions may be required, if the facility is notified to do so by the AQD District Supervisor. Such testing could include PM10, PM2.5, CO, SO2, NOx, lead, and the following TACs: acrolein, arsenic, benzene, ethylbenzene, formaldehyde, lead, manganese, naphthalene, nickel, sulfuric acid mist, toluene, xylene, and hydrogen chloride. At this time, only the particulate and opacity testing required by 40 CFR Part 60 Subpart I and by this PTI is being pursued. AQD reserves the right to require additional stack testing under this special condition.

3. This condition states that verification of odor rates from this plant may be required, upon notification from the AQD District Supervisor. Testing for odor rates is not being required at this time. The counterflow design of the new plant, truck loadout and silo control, and taller stack are expected to result in fewer odor complaints.

VI. MONITORING/RECORDKEEPING

1. All required calculations are required to be completed in a format acceptable to the AQD District Supervisor by the 30th day of the calendar month, for the previous calendar month.

2. Virgin aggregate feed rate and RAP feed rate is required to be monitored on a continuous basis. This was verified visually, during the inspection. Individual aggregate types and feed rates thereof are monitored and tracked. Mr. Herzfeld showed us that the individual aggregate and RAP feed bins are computerized, and are calibrated.

3. The permittee is required to monitor, with a hand held CO monitor, CO emissions from EUHMAPLANT and associated production data from the time of the emissions readings upon startup of each paving season, upon a malfunction of the drum dryer or its associated burner, and after 500 hours of operation. The example of CO data which I reviewed was dated 5/18/2018, and conducted by Ms. Anderson. Please see table below:

CO Reading number	Time on 5/18/2018	CO reading in parts per million (ppm)
1	11:21 AM	225
2	11:24 AM	157
3	11:28 AM	99
4	11:31 AM	95
5	11:32 AM	90
6	11:44 AM	102
7	11:50 AM	94
8	11:55 AM	83
9	12:01 PM	80

TPH: 400
 RAP: 33%
 Mix code: 5 E3

4. The permittee is required to monitor emissions and operating information in accordance with 40 CFR Part 60 Subparts A and I. The stack testing scheduled for 8/29 or 8/30//2018 is being done to comply with 40 CFR Part 60, and the PTI.

5. The permittee is required to conduct all necessary maintenance and make all necessary attempts to keep all drum mixer/burner and fabric filter dust collector components of EUHMAPLANT maintained and operating in a satisfactory manner at all times. They are required to maintain a log of all significant maintenance activities conducted and all significant repairs made to EUHMAPLANT. Maintenance for the baghouse or fabric filter dust collector is required to be consistent with the Preventative Maintenance Program specified in Appendix B of the PTI. I was informed today that because the plant is brand new, they have not had a need to perform any plant maintenance activities as of this date. Please see this activity report's discussion of SC EUHMAPLANT III. 2 and IV. 1, regarding black light testing of the new baghouse and an inspection of the new baghouse.

6. The permittee is required to keep the following records for each calendar month of operation:

a. Identification, type and amounts (in gallons) of all fuel oils combusted. I was advised that this plant has so far fired only natural gas.

b. Sulfur content (percent by weight), specific gravity, flash point, and higher heating value (Btu/lb) of all fuel oils being combusted. I was advised that this plant has so far fired only natural gas.

c. Tons of HMA containing RAP produced, including the average % of RAP per ton of HMA produced containing RAP/RAS. On 9/5/2018, I received copies of records (attached) for May, June, and July 2018, showing that the facility is recording these required parameters. Average RAP contents for the months of May, June, and July were 36%, 40% and 39%, respectively, below the permitted limit of 50%.

7. The permittee is required to keep intermittent daily records of the following production information for

EUHMAPLANT:

- a. The virgin aggregate feed rate. It is my understanding that they keep daily records of the feed rate, showing initial start time, end time, totals every 15 minutes or at mix design change, and totals at the end of the day. Please see attached daily intermittent record example from 8/31/2016, which Ms. Anderson sent on 9/5/2018, per a recent request I e-mailed. She included a "cheat sheet" on page 2 of 9 of the daily intermittent records to help interpret the complex array of data which was shown. The facility appears to be complying with this permit requirement.
- b. The RAP/RAS feed rate. It is my understanding that they keep daily records of the feed rate, showing initial start time, end time, totals every 15 minutes or at mix design change, and totals at the end of the day. Please see attached daily intermittent record example from 8/31/2016, along with a "cheat sheet" on page 2 of 9, to help interpret the complex array of data which was shown. The facility appears to be complying with this permit requirement.
- c. The asphalt paving material product temperature. It is my understanding that this data is kept on daily print out records. Please see attached daily intermittent record example from 8/31/2016, along with a "cheat sheet" on page 2 of 9, to help interpret the complex array of data which was shown. Item 7 on the "cheat sheet" is the mix temperature. The facility appears to be complying with this permit requirement.
- d. Information sufficient to identify all components of the asphalt paving material mixture. It is my understanding that this data is kept on daily print out records. Please see attached daily intermittent record example from 8/31/2016, along with a "cheat sheet" on page 2 of 9, to help interpret the complex array of data which was shown. The mix design 13 virgin aggregate feed bins, and 4 RAP feed bins, asphalt cement type and AC content of the mix are all included. The facility appears to be complying with this permit requirement.

The permittee is to record the initial mix design and time, upon startup. When a new mix design (i.e. a different mix design) is activated, the time and new mix design are to be recorded. This data is being kept on the daily intermittent records, please see example from 8/31/2018, and the "cheat sheet" on page 2 of 9 of the intermittent records, which shows where the mix design is recorded.

8. This requires monthly and 12-month rolling time period emission calculation records of all criteria pollutants and TACs listed in the emission limit table at the start of the Special Conditions in the PTI for EUHMAPLANT.

- Records e-mailed to me on 9/5/2018 by Ms. Anderson included calculated values for the criteria pollutants PM, PM10, PM2.5, SO2, NOx, and CO, in daily lbs/hr, and average monthly lbs/hr for the months May, June, and July, 2018. It is my understanding that there is not a 12-month rolling average listed for every month because the new plant just started up in May, 2018. AQD will request that lead be added to the calculated emissions.
- Additional records (attached) e-mailed to me on 9/5/2018 by Ms. Anderson included all of the TACs listed in the emission limit table at the start of the Special Conditions for EUHMAPLANT. This included benzene, toluene, ethylbenzene, xylene, naphthalene, formaldehyde, acrolein, arsenic, nickel, H2SO4 (sulfuric acid) manganese, and hydrogen chloride. Please see FGFACILITY for discussion of these pollutants compared with the permitted HAP limits for FGFACILITY of <9 TPY for single HAPs and <22.5 TPY for aggregate or total HAPs. It is my understanding that there is not a 12-month rolling average listed for every month because the new plant just started up in May, 2018.

9. The permittee is to keep records of all CO emissions and related production data (at the time CO data was collected). They appear to be doing this. Please see the table of CO readings from 5/18/2018, earlier in this inspection report.

10. The permittee is to record average daily, monthly, and 12-month rolling time period records of the amount of HMA product produced. The facility is keeping daily, monthly, and yearly records on HMA produced, based on the year to date Production Report which Mr. Herzfeld provided me; please see attached.

11. The permittee is to maintain shipment records demonstrating compliance with RUO limits. It is my understanding that this new plant has never burned RUO, that there is no RUO onsite, and that the piping and a fuel pump for the RUO tank have not been installed.

VII. REPORTING

1. Within 30 days after installation, construction, reconstruction, relocation or modification, the permittee is to notify the AQD in writing, of completion of this activity. Completion of installation, construction, reconstruction, relocation, or modification is considered to occur not later than commencement of trial operation. On 5/25/2018, AQD received a 5/21 letter from Mr. Mark E. Boden, Vice President of Ajax Materials, advising us that trial operations commenced for the new facility on 5/17. This complies with the permit requirement.

VIII. STACK/VENT RESTRICTIONS

1. The exhaust gases from the baghouse exhaust stack are required to be exhausted unobstructed vertically upwards from a stack (SVHMAPLANT) with a maximum diameter of 68 inches, and a minimum height of 120 feet. The stack appears to comply with this requirement.

IX. OTHER REQUIREMENTS

NA.

Special Conditions applicable to EUYARD:

I. EMISSION LIMITS

NA

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The fugitive dust control plan in Appendix B of the PTI is required to be implemented and maintained. Mr. Herzfeld provided a copy of their year to date road maintenance activities, please see attached. It lists the dates on which road and yard areas were swept and/or watered. It also provides the dates when calcium chloride was used. On 6/8/2018, calcium chloride was applied to the yard area, the record indicates. It appears that the plan has been implemented and maintained throughout the operating season.

Traces of calcium chloride used as dust suppressant were visible on unpaved roadways. Overall, the facility was meeting this requirement. As mentioned earlier in this report, I saw some minor fugitive dust from front end loader and truck traffic, and asked about the next application of water. I was advised that tonight/tomorrow it would rain, but that the next day, 8/28, they would try to have calcium chloride applied to unpaved roadways and yard areas.

I was advised that they are considering installing a sprinkler system which would water the paved onsite roadway, in addition to watering the lawn of the facility. There is a 5 mile per hour speed limit sign posted onsite, with enhanced signage to compel site visitors to comply.

IV. DESIGN/EQUIPMENT PARAMETERS

NA

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

1. All required calculations are to be completed by the 30th day of the calendar month, for the previous calendar month.

2. The permittee is required to calculate the annual fugitive dust emissions for EUYARD, using emission factors from the U.S. Environmental Protection Agency (EPA) document AP-42, or other emission factors approved by the DEQ. The company provided a MAERS report for the previous plant for the 2017 operating year, on 3/1/2018, which included emissions from EUYARD. The facility is expected to continue submittal of MAERS reports for the new plant. The MAERS report for the 2018 operating year will be due on 3/15/2018.

VII. REPORTING

1. The permittee is required to report the actual emission levels from EUYARD to the AQD through the annual MAERS report. This is a brand new plant, and has not yet had an opportunity to have emissions reported to MAERS. The company provided a MAERS report for the previous plant for the 2017 operating year, on 3/1/2018, which included emissions from EUYARD. The facility is expected to continue submittal of MAERS reports for the new plant. The MAERS report for the 2018 operating year will be due on 3/15/2018.

VIII. STACK/VENT RESTRICTIONS

NA

IX. OTHER REQUIREMENTS

NA

Special Conditions applicable to EUACTANKS

I. EMISSION LIMITS

NA

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

The permittee is required to install, maintain, and operate in a satisfactory manner a vapor condensation and recovery system. The six new liquid AC tanks are all equipped with condensers. No visible emissions could be seen from the tanks, or their condensers.

IV. DESIGN/EQUIPMENT PARAMETERS

NA

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

NA

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

NA

IX. OTHER REQUIREMENTS

NA

Special Conditions applicable to EUSILOS**I. EMISSION LIMITS**

NA

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee is required to have an emission control system from the top of each storage silo which is installed, maintained, and operated in a satisfactory manner. Please see discussion below.

2. The permittee is required to have the load out activities take place in an area which is enclosed except for entrance and exit points, with emissions vented into the burning zone of the drum dryer, or equivalent means of control. The company chose as an equivalent means a blue smoke control system. They are required to install, maintain, and operate the system in a satisfactory manner. Please see discussion below.

There are eight storage silos for HMA product, and two loadout lanes which pass underneath them. The loadout lanes are enclosed with what appear to solid side panels. Cameras are used, we were told, so the loadout operator knows where the trucks are within the enclosures. This is to avoid the risk of tons of asphalt product being dropped onto the cab roof of a truck in the load out tunnel. The south row of silos, starting from the west end, are numbered 1 through 4. The north row of silos, starting from the west, are numbered 5-8. The silos range from 200 to 250 to 300 ton storage capacity. There is an emissions capture system atop the silos. Periodically, there were some emissions of steam or blue smoke from one or more silos. The emissions did not appear excessive, and AQD is not pursuing this as an issue at t his time.

An air handling system has been installed for the loadout lanes under the silos, with the intent to capture emissions of blue smoke from the loadout process. The captured emissions from the loadout and from atop the silos are then routed to a blue smoke control system. The controlled emissions are then exhausted unobstructed vertically upwards, through a single, rectangular exhaust stack. It is my understanding that the control mechanism is a series of seven mechanical filters, each of which

consists of a finer grid than the one before it. It is also my understanding that water and oily liquids which condense inside the control device are removed from the unit every other day, and stored in a used oil tank, until they are taken offsite for recycling.

There were no visible emissions at this time from the gray, rectangular stack for the blue smoke control system. Winds were out of the east southeast this morning, and I observed a puff of steam or blue smoke being blown out of the west end of a load out tunnel. It did not appear to me to be excessive.

IV. DESIGN/EQUIPMENT PARAMETERS

NA

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

NA

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

NA

IX. OTHER REQUIREMENTS

NA

FGFACILITY

DESCRIPTION: All process equipment source-wide, including equipment covered by other permits, grandfathered equipment and exempt equipment.

Emission units: EUHMAPLANT, EUACTANKS, EUSILOS, EUYARD

POLLUTION CONTROL EQUIPMENT: NA

I. EMISSION LIMITS:

1. CO is limited to 89.9 TPY. This is to be achieved through the annual production limit of 895,000 tons of production of HMA paving product. CO testing is not being required at this time, but the permit indicates CO testing may be required by the District Supervisor. See FGFACILITY Special Condition VI. 2 for CO recordkeeping.

2. Each individual HAP is limited to less than 9.0 TPY, to keep the plant from going over the 10 TPY threshold for a single HAP which would make it a major HAPs source. HAPs testing is not being pursued at this time, but the permit indicates HAP testing may be required by the AQD District Supervisor. See FGFACILITY Special Condition VI. 3. a and 3. b.

3. Aggregate HAPs are limited to less than 22.5 TPY, to keep the total HAPs from going over the 25 TPY threshold which would make the plant a major HAPs source. HAPs testing is not being pursued at this time, but the permit indicates HAP testing may be required by the AQD District Supervisor. See FGFACILITY Special Condition VI. 3. a and 3. b.

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

NA

IV. DESIGN/EQUIPMENT PARAMETERS

NA

V. TESTING SAMPLING

NA

VI. MONITORING/RECORDKEEPING

1. All required calculations are to be completed in a format acceptable to the AQD District Supervisor, and made available by the 15th day of the calendar month.

2. The facility is required to keep in a satisfactory manner monthly and 12-month rolling time period CO emission calculation records for FGFACILITY. It is my understanding that there are not 12-month rolling values calculated for each month, as the plant is brand new, and 12 months of data are not yet available.

3. The facility is required to keep the following for FGFACILITY:

a. Monthly individual HAP and aggregate HAP emissions determining the emission rate of each in tons per calendar month. It is my understanding that this data is kept on daily print out records.

Records (attached) e-mailed to me on 9/5/2018 by Ms. Anderson included all of the TACs listed in the emission limit table at the start of the Special Conditions for EUHMAPLANT. This included benzene, toluene, ethylbenzene, xylene, naphthalene, formaldehyde, acrolein, arsenic, nickel, H₂SO₄ (sulfuric acid) manganese, and hydrogen chloride. For May, June, and July 2018, total HAPs were 0.89 tons, 1.69 tons, and 1.42 tons, respectively. The single HAPs emitted at the highest rates in May, June, and July 2018 were as follows:

May 2018:

- H₂SO₄ (sulfuric acid): 0.24 tons per month
- Hydrogen chloride: 0.32 tons per month

June 2018:

- H₂SO₄ (sulfuric acid): 0.45 tons per month
- Hydrogen chloride: 0.60 tons per month

July 2018:

- H₂SO₄ (sulfuric acid): 0.38 tons per month
- Hydrogen chloride: 0.51 tons per month

b. Annual emission rates of individual and aggregate HAPs in tons per 12-month rolling time period. It is my understanding that this data is kept on daily print out records.

Records (attached) e-mailed to me on 9/5/2018 by Ms. Anderson included all of the TACs listed in the emission limit table at the start of the Special Conditions for EUHWA PLANT. This included benzene, toluene, ethylbenzene, xylene, naphthalene, formaldehyde, acrolein, arsenic, nickel, H₂SO₄ (sulfuric acid) manganese, and hydrogen chloride. For May, June, and July 2018, total HAPs were 0.89 tons, 1.69 tons, and 1.42 tons, respectively. The limit of < 22.5 TPY for total HAPs for FGFACILITY did not look to be at risk of being exceeded based on the data shown for these 3 months.

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

NA

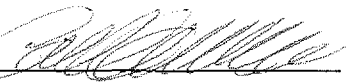
IX. OTHER REQUIREMENTS

NA

Conclusion:

No instances of noncompliance were observed. The facility appeared to be in compliance with opt-out PTI No. 76-17.

NAME



DATE

9/7/2018

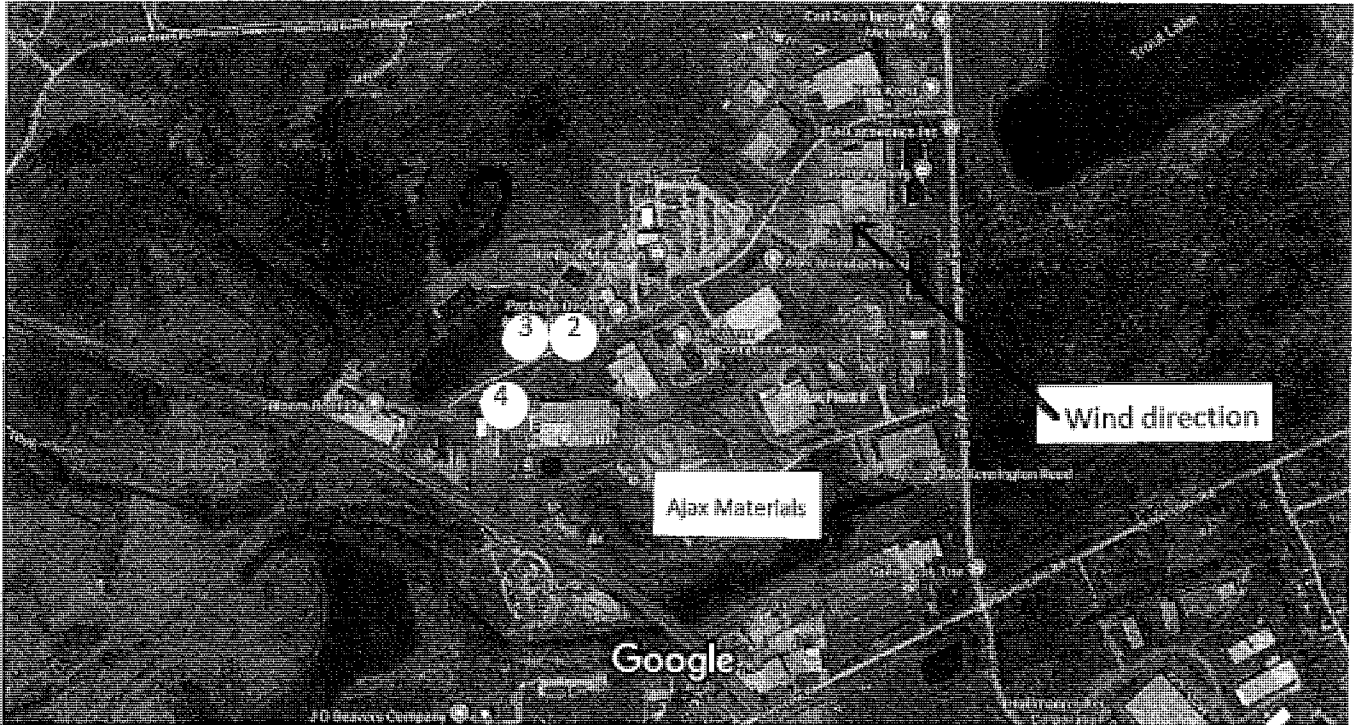
SUPERVISOR



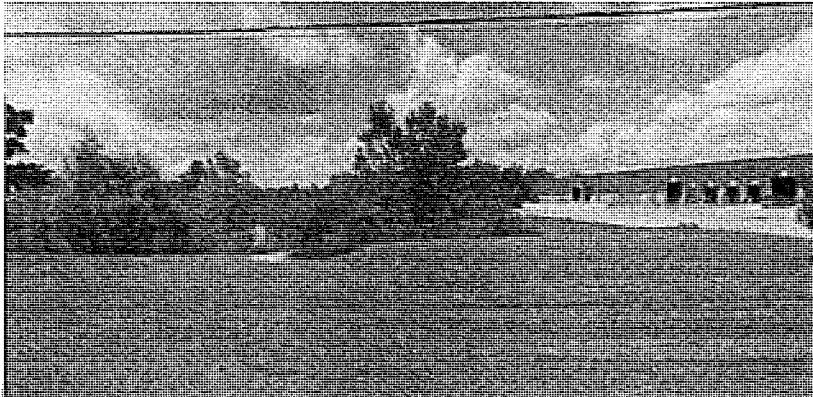
**ODOR SURVEY FORM**

Source Name: Ajax Materials Corp., Plant 6				Inspector: Daniel McGeen
Source Address: 7392 Kensington Road Brighton MI 48116 Livingston Co.				Date: 6/26/2018
Sky Conditions: Mostly sunny				Temperature: 69 degrees F
Wind Speed: 5-10 mph		Wind Direction: SE		Source of Meteorological Data: Car thermometer.
Location (attach map, if available)	Time	Odor Scale (See below)	Characteristic (See below)	Comments (Observations that will aid in the determination of the source & properties of the odor.)
1. Emerson & Kensington	9:55 AM	0		
2. Emerson turn-around	9:57 AM	1	Asphalt	Brief. Wind out of ESE.
3. Emerson turn-around	9:59 AM	2	Asphalt	Intermittent, no odor when wind subsided.
4. General Chem. lot	10:04 AM	2	Asphalt	Steady odor, when in parking lot of General Chemical Corporation.
<u>Odor Scale</u> 0 - Non-Detect 1 - Just barely detectable 2 - Distinct and definite odor 3 - Distinct and definite objectionable odor 4 - Odor strong enough to cause a person to attempt to avoid it completely 5 - Odor so strong as to be overpowering and intolerable for any length of time				<u>Odor characteristic examples:</u> Paint-like Musty, moldy Burnt, smoky Tar-like, asphalt Cut grass Citrus fruit

Google Maps 7392 Kensington Rd



Imagery ©2018 CNES / Airbus, DigitalGlobe, U.S. Geological Survey, USDA Farm Service Agency, Map data ©2018 Google



7392 Kensington Rd
Brighton, MI 48116

Key

2 - level 1 asphalt

3 - level 2 asphalt

4 - level 2 asphalt



At this location

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Severe Weather

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- [Convective Outlook \(/severeconvective.asp\)](#)
- [Wildfires \(/wundermap/?zoom=5&lat=37.80307138624724&lon=-90.50826873347978&wxstn=0&wxslnmode=tw&radar=0&radaropa=0.7&satellite=0&satelliteopa=0.8&insertHurricaneNameHere=false&q:](#)
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Apps

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- [Weather Underground for iOS \(https://app.apple.com/id488154808?pid=Web&c=AppPage\)](#)
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- [WunderStation for iPad \(https://itunes.apple.com/us/app/wunderstation-weather-from/id906099986?ls=1&mt=8\)](#)
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Elev 958ft 42.83 °N, 83.98 °W

Livingston County, MI

🌤️ **67° LIVINGSTON COUNTY STATION (/HISTORY/DAILY/US/MI/HOWELL/KOZW/DATE/2018-9-6?CM_VEN=LOCALWX_PWSDASH)** | [CHANGE](#) ▾

[HISTORY \(/HISTORY/DAILY/US/MI/HOWELL/KOZW/DATE/2018-9-6\)](#)

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- [HISTORY \(/HISTORY/DAILY/US/MI/HOWELL/KOZW/DATE/2018-9-6\)](#)
- [WUNDERMAP \(/WUNDERMAP?LAT=42.62944412&LON=-83.98416901\)](#)

Daily Weekly Monthly

Summary

Temperature (° F)	Actual	Historic Avg.	Record	▲
High Temp	85	0	91	
Low Temp	67	0	46	
Day Average Temp	76	0	-	
Precipitation (Inches)	Actual	Historic Avg.	Record	▲
Precipitation	0	0	1.44	
Month to Date	0	0	-	
Year to Date	0	0	-	
Degree Days (° F)	Actual	Historic Avg.	Record	▲
Heating Degree Days	0	0	-	
HDD Month to Date	0	0	-	
HDD Since July 1	0	0	-	
Cooling Degree Days	11	0	-	
CDD Month to Date	0	0	-	
CDD Year to Date	0	0	-	
Growing Degree Days	26	-	-	
Dew Point (° F)	Actual	Historic Avg.	Record	▲
Dew Point	70	-	-	
High	74	-	-	
Low	67	-	-	
Average	70	-	-	
Wind (MPH)	Actual	Historic Avg.	Record	▲
Max Wind Speed	10	-	-	
Visibility	10	-	-	
Sea Level Pressure (Hg)	Actual	Historic Avg.	Record	▲
Sea Level Pressure	30.09	-	-	
Astronomy	Day Length	Rise	Set	▲
Actual Time	13h 26m	6:55 AM	8:22 PM	

Temperature (° F)	Actual	Historic Avg.	Record
Civil Twilight		6:26 AM	8:52 PM
Nautical Twilight		5:50 AM	9:27 PM
Astronomical Twilight		5:13 AM	10:05 PM
Moon: waning gibbous		8:45 PM	6:50 AM

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Precip Accum	Condition
Sun Aug 26 2018 19:35:00 GMT-0400 (Eastern Daylight Time)	82 ° F	72 ° F	71 %	CALM	0 mph	0 mph	29.0 in	0.0 in	0.0 in	Fair
Sun Aug 26 2018 19:55:00 GMT-0400 (Eastern Daylight Time)	82 ° F	72 ° F	73 %	CALM	0 mph	0 mph	29.0 in	0.0 in	0.0 in	Fair
Sun Aug 26 2018 20:15:00 GMT-0400 (Eastern Daylight Time)	80 ° F	72 ° F	76 %	SSE	3 mph	0 mph	29.0 in	0.0 in	0.0 in	Fair
Sun Aug 26 2018 20:35:00 GMT-0400 (Eastern Daylight Time)	80 ° F	72 ° F	78 %	S	3 mph	0 mph	29.0 in	0.0 in	0.0 in	Fair
Sun Aug 26 2018 20:55:00 GMT-0400 (Eastern Daylight Time)	79 ° F	72 ° F	79 %	SSE	3 mph	0 mph	29.0 in	0.0 in	0.0 in	Fair
Sun Aug 26 2018 21:15:00 GMT-0400 (Eastern Daylight Time)	78 ° F	72 ° F	81 %	SW	3 mph	0 mph	29.0 in	0.0 in	0.0 in	Fair
Sun Aug 26 2018 21:35:00 GMT-0400 (Eastern Daylight Time)	79 ° F	72 ° F	80 %	S	5 mph	0 mph	29.0 in	0.0 in	0.0 in	Fair
Sun Aug 26 2018 21:55:00 GMT-0400 (Eastern Daylight Time)	78 ° F	72 ° F	82 %	S	5 mph	0 mph	29.0 in	0.0 in	0.0 in	Fair
Sun Aug 26 2018 22:15:00 GMT-0400 (Eastern Daylight Time)	78 ° F	72 ° F	83 %	SSE	3 mph	0 mph	29.0 in	0.0 in	0.0 in	Fair
Sun Aug 26 2018 22:35:00 GMT-0400 (Eastern Daylight Time)	77 ° F	73 ° F	86 %	SSE	6 mph	0 mph	29.0 in	0.0 in	0.0 in	Fair
Sun Aug 26 2018 22:55:00 GMT-0400 (Eastern Daylight Time)	76 ° F	73 ° F	88 %	SSE	5 mph	0 mph	29.0 in	0.0 in	0.0 in	Fair
Sun Aug 26 2018 23:15:00 GMT-0400 (Eastern Daylight Time)	76 ° F	73 ° F	89 %	SSE	5 mph	0 mph	29.0 in	0.0 in	0.0 in	Fair
Sun Aug 26 2018 23:36:00 GMT-0400 (Eastern Daylight Time)	76 ° F	73 ° F	91 %	SSE	5 mph	0 mph	29.0 in	0.0 in	0.0 in	Fair
Sun Aug 26 2018 23:55:00 GMT-0400 (Eastern Daylight Time)	77 ° F	74 ° F	90 %	S	6 mph	0 mph	29.0 in	0.0 in	0.0 in	Fair

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, Dan (DEQ)

From: Kathleen T. Anderson <kanderson@ajaxpaving.com>
Sent: Wednesday, September 05, 2018 11:15 AM
To: McGeen, Dan (DEQ)
Cc: David Grabowski; Chris Edwards
Subject: FW: Message from "RNP002673C753BB"
Attachments: 20180905110752339.pdf

Dan,
Here are the back-up records for Ajax Materials Corporation-Plant located in Brighton, MI (SRN B5823).
If you need anything else please let me know.
Thanks,

Kathleen T. Anderson
Axis Environmental Consulting Corp.
Environmental Consultant for
Ajax Paving Industries, Inc./Ajax Materials Corporation/GLPT, LLC
Cell: 810-845-3925

-----Original Message-----

From: Ricoh6503@ajaxpaving.com [mailto:Rico6503@ajaxpaving.com]
Sent: Wednesday, September 5, 2018 11:08 AM
To: Kathleen T. Anderson <kanderson@ajaxpaving.com>
Subject: Message from "RNP002673C753BB"

This E-mail was sent from "RNP002673C753BB" (MP C6503).

Scan Date: 09.05.2018 11:07:52 (-0400)
Queries to: Ricoh6503@ajaxpaving.com



Ajax Materials Corporation

Tons Produced

Plant: Brighton

Dates: 5/1/2018 To 7/31/2018

SRN B5823

Monthly Period	12 Month Period	Monthly Total Tons Produced	12 Months Total Tons Produced
May 2018 - 5/1/2018 To 5/31/2018	12 Months - 6/1/2017 To 5/31/2018	31,827.1	383,596.7
Jun 2018 - 6/1/2018 To 6/30/2018	12 Months - 7/1/2017 To 6/30/2018	60,203.9	387,997.1
Jul 2018 - 7/1/2018 To 7/31/2018	12 Months - 8/1/2017 To 7/31/2018	50,570.2	374,444.6



Ajax Materials Corporation

Tons Produced

Plant: Brighton

Dates: 1/1/2018 To 7/31/2018

Monthly Period	12 Month Period	Monthly Total Tons Produced	12 Months Total Tons Produced
Jan 2018 - No Activity	12 Months - No Activity		
Feb 2018 - No Activity	12 Months - No Activity		
Mar 2018 - No Activity	12 Months - No Activity		
Apr 2018 - No Activity	12 Months - No Activity		
May 2018 - 5/1/2018 To 5/31/2018	12 Months -6/1/2017 To 5/31/2018	31,827.1	383,596.7
Jun 2018 - 6/1/2018 To 6/30/2018	12 Months -7/1/2017 To 6/30/2018	60,203.9	387,997.1
Jul 2018 - 7/1/2018 To 7/31/2018	12 Months -8/1/2017 To 7/31/2018	50,570.2	374,444.6

Ajax Materials Corp-Plant 6
 PTI: 76-17; Monthly HAPs Calculations

May 2018

Pollutant	Emission Rate (lbs./ton of HMA)	Monthly Total Tons of HMA Produced	Lbs.of HAPs/month	Tons of HAPs/month	Source
Sulfuric Acid	1.50E-02	31,827	477.405	0.23870	PTI 76-17
Benzene	1.00E-03	31,827	31.827	0.01591	PTI 76-17
Toluene	6.00E-03	31,827	190.962	0.09548	PTI 76-17
Ethylbenzene	1.00E-03	31,827	31.827	0.01591	PTI 76-17
Xylenes	1.00E-03	31,827	31.827	0.01591	PTI 76-17
Hydrogen Chloride	2.00E-02	31,827	636.540	0.31827	PTI 76-17
Arsenic	1.00E-06	31,827	0.032	0.00002	PTI 76-17
Nickel	1.00E-04	31,827	3.183	0.00159	PTI 76-17
Managanese	5.00E-05	31,827	1.591	0.00080	PTI 76-17
Lead	2.00E-06	31,827	0.064	0.00003	PTI 76-17
Napthalene	1.00E-03	31,827	31.827	0.01591	PTI 76-17
Formaldehyde	1.00E-02	31,827	318.270	0.15914	PTI 76-17
Acrolein	1.00E-03	31,827	31.827	0.01591	PTI 76-17
			Total Combined HAPs	0.89359	

Permitted limit is based on 895,000 tons of HMA per year.

Per Permit No: 76-17

SC: VI 8

Ajax Materials Corp-Plant 6
 PTI: 76-17; Monthly HAPs Calculations

June 2018

Pollutant	Emission Rate (lbs./ton of HMA)	Monthly Total Tons of HMA Produced	Lbs.of HAPs/month	Tons of HAPs/month	Source
Sulfuric Acid	1.50E-02	60,204	903.060	0.45153	PTI 76-17
Benzene	1.00E-03	60,204	60.204	0.03010	PTI 76-17
Toluene	6.00E-03	60,204	361.224	0.18061	PTI 76-17
Ethylbenzene	1.00E-03	60,204	60.204	0.03010	PTI 76-17
Xylenes	1.00E-03	60,204	60.204	0.03010	PTI 76-17
Hydrogen Chloride	2.00E-02	60,204	1204.080	0.60204	PTI 76-17
Arsenic	1.00E-06	60,204	0.060	0.00003	PTI 76-17
Nickel	1.00E-04	60,204	6.020	0.00301	PTI 76-17
Managanese	5.00E-05	60,204	3.010	0.00151	PTI 76-17
Lead	2.00E-06	60,204	0.120	0.00006	PTI 76-17
Napthalene	1.00E-03	60,204	60.204	0.03010	PTI 76-17
Formaldehyde	1.00E-02	60,204	602.040	0.30102	PTI 76-17
Acrolein	1.00E-03	60,204	60.204	0.03010	PTI 76-17
			Total Combined HAPs	1.69032	

Permitted limit is based on 895,000 tons of HMA per year.

Per Permit No: 76-17

SC: VI 8

Ajax Materials Corp-Plant 6
PTI 76-17; HAPS Calculations

July 2018

Pollutant	Emission Rate (lbs./ton of HMA)	Monthly Total Tons of HMA Produced	Lbs.of HAPs/month	Tons of HAPs/month	Source
Sulfuric Acid	1.50E-02	50,570	758.550	0.37928	PTI 76-17
Benzene	1.00E-03	50,570	50.570	0.02529	PTI 76-17
Toluene	6.00E-03	50,570	303.420	0.15171	PTI 76-17
Ethylbenzene	1.00E-03	50,570	50.570	0.02529	PTI 76-17
Xylenes	1.00E-03	50,570	50.570	0.02529	PTI 76-17
Hydrogen Chloride	2.00E-02	50,570	1011.400	0.50570	PTI 76-17
Arsenic	1.00E-06	50,570	0.051	0.00003	PTI 76-17
Nickel	1.00E-04	50,570	5.057	0.00253	PTI 76-17
Managanese	5.00E-05	50,570	2.529	0.00126	PTI 76-17
Lead	2.00E-06	50,570	0.101	0.00005	PTI 76-17
Napthalene	1.00E-03	50,570	50.570	0.02529	PTI 76-17
Formaldehyde	1.00E-02	50,570	505.700	0.25285	PTI 76-17
Acrolein	1.00E-03	50,570	50.570	0.02529	PTI 76-17
			Total Combined HAPs	1.41983	

Permitted limit is based on 895,000 tons of HMA per year.

Per Permit No: 76-17

SC: VI 8



Ajax Materials Corporation

Rap Usage Report

Plant: Brighton

Dates: 5/1/2018 To 5/31/2018

Brighton

SC VI: 6-9

<u>Date</u>	<u>Rap Used (tons)</u>
5/17/2018	401.00
5/18/2018	927.46
5/20/2018	254.25
5/21/2018	1,376.58
5/22/2018	1,620.27
5/23/2018	1,631.14
5/24/2018	786.07
5/25/2018	707.88
5/29/2018	1,746.03
5/30/2018	863.99
5/31/2018	1,148.42
<u>Brighton subtotal:</u>	
Total Rap Used	11,363.09
Total Tons Produced	31,827.10
This Month's Average Rap Usage	36%

Grand Total:

Total Rap Used	11,363.09
Total Tons Produced	31,827.10
This Month's Average Rap Usage	36%



Ajax Materials Corporation

Rap Usage Report

Plant: Brighton

Dates: 6/1/2018 To 6/30/2018

Brighton

SCVI 6-9

<u>Date</u>	<u>Rap Used (tons)</u>
6/1/2018	944.44
6/2/2018	848.35
6/4/2018	824.38
6/5/2018	456.59
6/6/2018	1,469.38
6/7/2018	1,637.19
6/8/2018	1,381.12
6/9/2018	377.94
6/11/2018	420.25
6/12/2018	1,397.95
6/13/2018	1,167.97
6/14/2018	461.27
6/15/2018	1,336.07
6/17/2018	150.18
6/18/2018	1,421.13
6/19/2018	503.00
6/20/2018	136.47
6/20/2018	188.92
6/21/2018	1,005.55
6/21/2018	410.14
6/22/2018	514.30
6/24/2018	261.17
6/25/2018	1,654.25
6/26/2018	1,481.13
6/28/2018	1,243.27
6/29/2018	883.90

Brighton

<u>Date</u>	<u>Rap Used (tons)</u>
6/30/2018	1,299.92

Brighton subtotal:

Total Rap Used	23,878.23
Total Tons Produced	60,203.90
This Month's Average Rap Usage	40%

Grand Total:

Total Rap Used	23,878.23
Total Tons Produced	60,203.90
This Month's Average Rap Usage	40%



Ajax Materials Corporation

Rap Usage Report

Plant: Brighton

Dates: 7/1/2018 To 7/31/2018

Brighton

S.C VI 6-9

<u>Date</u>	<u>Rap Used (tons)</u>
7/1/2018	992.07
7/2/2018	898.46
7/5/2018	621.65
7/6/2018	1,396.90
7/7/2018	527.35
7/8/2018	802.22
7/9/2018	1,094.43
7/10/2018	885.01
7/11/2018	1,044.94
7/12/2018	412.16
7/13/2018	410.16
7/14/2018	602.42
7/15/2018	303.77
7/16/2018	1,007.18
7/17/2018	1,341.76
7/18/2018	1,721.49
7/19/2018	1,056.41
7/20/2018	942.20
7/23/2018	968.66
7/24/2018	364.03
7/25/2018	825.30
7/26/2018	368.73
7/27/2018	520.18
7/29/2018	221.38
7/30/2018	313.77
7/31/2018	506.58

Brighton

<u>Date</u>	<u>Rap Used (tons)</u>
<u>Brighton subtotal:</u>	
Total Rap Used	20,149.21
Total Tons Produced	52,218.30
This Month's Average Rap Usage	39%

<u>Grand Total:</u>	
Total Rap Used	20,149.21
Total Tons Produced	52,218.30
This Month's Average Rap Usage	39%



Ajax Materials Corporation

Emissions Report

Plant: Brighton

Dates: 5/1/2018 To 5/31/2018

SC: VI 8/10 monthly/daily

Date	Tons Produced	Hours of Operation	Tons/Hour	Gas Tons	Oil Tons	* PM10/hr	* SO2/hr	* NOX/hr	* CO/hr	* PM2.5/hr	PM/hr
5/17/2018	935	3.50	267.1	935	0	0.011	0.016	0.011	0.027	0.011	0.007
5/18/2018	2,442	9.00	271.3	2,442	0	0.011	0.016	0.011	0.027	0.011	0.007
5/20/2018	768	3.00	256.1	768	0	0.010	0.015	0.010	0.026	0.010	0.006
5/21/2018	4,172	10.00	417.2	4,172	0	0.017	0.025	0.017	0.042	0.017	0.010
5/22/2018	4,274	12.00	356.1	4,274	0	0.014	0.021	0.014	0.036	0.014	0.009
5/23/2018	4,448	12.00	370.6	4,448	0	0.015	0.022	0.015	0.037	0.015	0.009
5/24/2018	2,187	7.00	312.4	2,187	0	0.012	0.019	0.012	0.031	0.012	0.008
5/25/2018	2,334	7.50	311.3	2,334	0	0.012	0.019	0.012	0.031	0.012	0.008
5/29/2018	4,910	12.00	409.1	4,910	0	0.016	0.025	0.016	0.041	0.016	0.010
5/30/2018	2,390	7.00	341.5	2,390	0	0.014	0.020	0.014	0.034	0.014	0.009
5/31/2018	2,968	8.00	371.1	2,968	0	0.015	0.022	0.015	0.037	0.015	0.009
Total	31,827	91.00	349.7	31,827	0	0.014	0.021	0.014	0.035	0.014	0.009

12 Month Avg:	400,594	1,466.84	273.1	400,594	0	0.011	0.016	0.011	0.027	0.011	0.007
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Emission Items:		
Item	Gas Tons Factor	Oil Tons Factor
PM10:	0.08	0
SO2:	0.12	0
NOX:	0.08	0
CO:	0.2	0
PM2.5:	0.08	0
PM:	0.05	0

NOTE:
* Pollutant emission calculations are expressed in lbs/hr.



Ajax Materials Corporation

Emissions Report

Plant: Brighton

Dates: 6/1/2018 To 6/30/2018

Date	Tons Produced	Hours of Operation	Tons/Hour	Gas Tons	Oil Tons	PM10/hr	SO2/hr	NOX/hr	CO/hr	PM2.5/hr	PM/hr
6/1/2018	2,293	6.00	382.2	2,293	0	0.015	0.023	0.015	0.038	0.015	0.010
6/2/2018	2,133	5.50	387.8	2,133	0	0.016	0.023	0.016	0.039	0.016	0.010
6/4/2018	2,259	6.00	376.5	2,259	0	0.015	0.023	0.015	0.038	0.015	0.009
6/5/2018	964	2.50	385.6	964	0	0.015	0.023	0.015	0.039	0.015	0.010
6/6/2018	3,723	9.00	413.7	3,723	0	0.017	0.025	0.017	0.041	0.017	0.010
6/7/2018	4,088	9.50	430.3	4,088	0	0.017	0.026	0.017	0.043	0.017	0.011
6/8/2018	3,623	8.50	426.2	3,623	0	0.017	0.026	0.017	0.043	0.017	0.011
6/9/2018	848	2.50	339.4	848	0	0.014	0.020	0.014	0.034	0.014	0.008
6/11/2018	954	2.50	381.4	954	0	0.015	0.023	0.015	0.038	0.015	0.010
6/12/2018	3,322	7.75	428.7	3,322	0	0.017	0.026	0.017	0.043	0.017	0.011
6/13/2018	2,768	7.00	395.4	2,768	0	0.016	0.024	0.016	0.040	0.016	0.010
6/14/2018	1,106	2.75	402.0	1,106	0	0.016	0.024	0.016	0.040	0.016	0.010
6/15/2018	3,541	9.00	393.5	3,541	0	0.016	0.024	0.016	0.039	0.016	0.010
6/17/2018	387	1.00	386.7	387	0	0.015	0.023	0.015	0.039	0.015	0.010
6/18/2018	4,799	11.25	426.6	4,799	0	0.017	0.026	0.017	0.043	0.017	0.011
6/19/2018	1,113	3.00	370.8	1,113	0	0.015	0.022	0.015	0.037	0.015	0.009
6/20/2018	364	1.00	364.4	364	0	0.015	0.022	0.015	0.036	0.015	0.009
6/20/2018	530	1.30	407.7	530	0	0.016	0.024	0.016	0.041	0.016	0.010
6/21/2018	2,744	6.80	403.5	2,744	0	0.016	0.024	0.016	0.040	0.016	0.010
6/21/2018	1,150	3.30	348.5	1,150	0	0.014	0.021	0.014	0.035	0.014	0.009
6/22/2018	1,146	3.00	381.9	1,146	0	0.015	0.023	0.015	0.038	0.015	0.010
6/24/2018	742	2.00	371.0	742	0	0.015	0.022	0.015	0.037	0.015	0.009
6/25/2018	4,208	9.25	454.9	4,208	0	0.018	0.027	0.018	0.045	0.018	0.011
6/26/2018	3,464	8.00	432.9	3,464	0	0.017	0.026	0.017	0.043	0.017	0.011
6/28/2018	2,875	7.50	383.3	2,875	0	0.015	0.023	0.015	0.038	0.015	0.010

Date	Tons Produced	Hours of Operation	Tons/Hour	Gas Tons	Oil Tons	PM10/hr	SO2/hr	NOX/hr	CO/hr	PM2.5/hr	PM/hr
6/29/2018	2,045	5.50	371.8	2,045	0	0.015	0.022	0.015	0.037	0.015	0.009
6/30/2018	3,016	6.75	446.8	3,016	0	0.018	0.027	0.018	0.045	0.018	0.011
Total	60,204	148.15	406.4	60,204	0	0.016	0.024	0.016	0.041	0.016	0.010
Last Month Avg:	31,827	91.00	349.7	31,827	0	0.014	0.021	0.014	0.035	0.014	0.009
12 Month Avg:	383,597	1,375.54	278.9	383,597	0	0.011	0.017	0.011	0.028	0.011	0.007

Emission Items:		
Item	Gas Tons Factor	Oil Tons Factor
PM10:	0.08	0
SO2:	0.12	0
NOX:	0.08	0
CO:	0.2	0
PM2.5:	0.08	0
PM:	0.05	0



Ajax Materials Corporation

Emissions Report

Plant: Brighton

Dates: 7/1/2018 To 7/31/2018

Date	Tons Produced	Hours of Operation	Tons/Hour	Gas Tons	Oil Tons	PM10/hr	SO2/hr	NOX/hr	CO/hr	PM2.5/hr	PM/hr
7/1/2018	2,074	5.00	414.7	2,074	0	0.017	0.025	0.017	0.041	0.017	0.010
7/2/2018	2,240	5.50	407.3	2,240	0	0.016	0.024	0.016	0.041	0.016	0.010
7/5/2018	1,751	4.50	389.2	1,751	0	0.016	0.023	0.016	0.039	0.016	0.010
7/6/2018	3,381	7.75	436.2	3,381	0	0.017	0.026	0.017	0.044	0.017	0.011
7/7/2018	1,784	4.25	419.7	1,784	0	0.017	0.025	0.017	0.042	0.017	0.010
7/8/2018	2,083	6.00	347.2	2,083	0	0.014	0.021	0.014	0.035	0.014	0.009
7/9/2018	3,084	7.00	440.6	3,084	0	0.018	0.026	0.018	0.044	0.018	0.011
7/10/2018	2,466	6.00	411.1	2,466	0	0.016	0.025	0.016	0.041	0.016	0.010
7/11/2018	2,820	7.00	402.8	2,820	0	0.016	0.024	0.016	0.040	0.016	0.010
7/12/2018	1,551	3.50	443.2	1,551	0	0.018	0.027	0.018	0.044	0.018	0.011
7/13/2018	977	2.50	390.6	977	0	0.016	0.023	0.016	0.039	0.016	0.010
7/14/2018	0	3.50	0.0	0	0	0.000	0.000	0.000	0.000	0.000	0.000
7/15/2018	1,026	3.00	342.1	1,026	0	0.014	0.021	0.014	0.034	0.014	0.009
7/16/2018	2,258	5.75	392.6	2,258	0	0.016	0.024	0.016	0.039	0.016	0.010
7/17/2018	2,980	7.75	384.5	2,980	0	0.015	0.023	0.015	0.038	0.015	0.010
7/18/2018	4,445	10.00	444.5	4,445	0	0.018	0.027	0.018	0.044	0.018	0.011
7/19/2018	2,651	6.50	407.8	2,651	0	0.016	0.024	0.016	0.041	0.016	0.010
7/20/2018	2,470	6.00	411.7	2,470	0	0.016	0.025	0.016	0.041	0.016	0.010
7/23/2018	2,624	6.75	388.7	2,624	0	0.016	0.023	0.016	0.039	0.016	0.010
7/24/2018	960	2.50	384.0	960	0	0.015	0.023	0.015	0.038	0.015	0.010
7/25/2018	1,967	4.25	462.8	1,967	0	0.019	0.028	0.019	0.046	0.019	0.012
7/26/2018	1,173	3.00	391.0	1,173	0	0.016	0.023	0.016	0.039	0.016	0.010
7/27/2018	1,475	3.75	393.2	1,475	0	0.016	0.024	0.016	0.039	0.016	0.010
7/29/2018	496	1.25	397.0	496	0	0.016	0.024	0.016	0.040	0.016	0.010
7/30/2018	711	1.75	406.3	711	0	0.016	0.024	0.016	0.041	0.016	0.010

Date	Tons Produced	Hours of Operation	Tons/Hour	Gas Tons	Oil Tons	PM10/hr	SO2/hr	NOX/hr	CO/hr	PM2.5/hr	PM/hr
7/31/2018	1,124	2.50	449.6	1,124	0	0.018	0.027	0.018	0.045	0.018	0.011
Total	50,570	127.25	397.4	50,570	0	0.016	0.024	0.016	0.040	0.016	0.010

Last Month Avg:	60,204	148.15	406.4	60,204	0	0.016	0.024	0.016	0.041	0.016	0.010
12 Month Avg:	387,997	1,323.09	293.3	387,997	0	0.012	0.018	0.012	0.029	0.012	0.007

Emission Items:		
Item	Gas Tons Factor	Oil Tons Factor
PM10:	0.08	0
SO2:	0.12	0
NOX:	0.08	0
CO:	0.2	0
PM2.5:	0.08	0
PM:	0.05	0

AJAX MATERIALS CORPORATION
BAGHOUSE INSPECTION RECORD

APP. B3
Backlight/
Baghouse Inspection
May 2018
Please
fill out!
Thanks PA

Date: 5-20-18 Time: 5:30 AM

Plant Location: Ajax Materials Plant 6 Brighton

Inspected By: M. Hernandez, S. Newport

What is the reason for the baghouse inspection?

- Start up of paving season Routine Maintenance Visible emission observed

Note: If visible emission was observed over 20% opacity, then record readings on separate sheet and attach

What were the findings of the visual inspection?

Was a black light test performed?

- Yes No

What was the reason for the black light test?

- Start up of paving season Routine Maintenance Visible emission observed

What were the findings of the black light test?

Everything checked out O.K. All new bags

How many filterbags were replaced? 0

Date of Replacement: _____ Time of Replacement: _____

Replacement filter bags were:

- New Cleaned Previously Used

Note: Fill out the Bag Replacement Chart to indicate which bags were replaced and attach to this form.

Check off all descriptions of the filters that were replaced:

- Holes in bag Brittle Leaking at cuff
 Dislodged from tubesheet Shrunken Routine Maintenance
 Other _____

Describe any other significant maintenance performed:

924 new bags installed in new baghouse

Name of Inspector(s): Herzfeld / Niefort

Date(s): May 2018

Ajax Plant 6 Brighton- Baghouse Replacement Chart

Row

South side of baghouse (1st Half)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39						
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

North side of Baghouse

Row

South side of Baghouse (2nd half)

	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77							
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

North side of Baghouse

West side of baghouse (exhaust side) Inspector
 App. B. Baghouse

**AJAX MATERIALS CORPORATION
CO EMISSION READINGS**

CO readings need to be taken during the start up of the season, during malfunctions of the dryer/mixer or its associated burner and after every 500 hours of operation.

Date: 5/18/18 Time: 11:20 am

Plant Location: Ajax Materials Plant 6 - Brighton, MI

Performed By: K. Anderson

What is the reason for the CO readings?

- Start up of paving season Equipment malfunction
 500 hours of operation 1,000 hours of operation

5E3

FUEL: Natural Gas TPH: 400 RAP: 33% MIX DESIGN: ~~5008~~

Note: Record eight (8) readings over a time period of no less than 30 minutes

CO Reading Number	Time	CO Reading (ppm)
<u>1</u>	<u>11:21 am</u>	<u>225</u>
<u>2</u>	<u>11:24 am</u>	<u>157</u>
<u>3</u>	<u>11:28 am</u>	<u>99</u>
<u>4</u>	<u>11:31 am</u>	<u>95</u>
<u>5</u>	<u>11:32 am</u>	<u>90</u>
<u>6</u>	<u>11:44 am</u>	<u>102</u>
<u>7</u>	<u>11:50 am</u>	<u>94</u>
<u>8</u>	<u>11:55 am</u>	<u>83</u>
<u>9</u>	<u>12:01 pm</u>	<u>80</u>

Stack Observation: Attached steam plume towards the west
NO VE observed.

- Daily Intermittent Records -

Ajax Materials Corp.
Plant 6 Brighton

English - Mix: '302 - 1100 Hearing' + TPH @ 66 F 0.00 %A/C Mix T: +.0 Inc T: +.01 8/31/2018 5:47:21 AM

JMN: 'All Retailers' (Tank num5 : '64-22' 1.042 SpGr @ 293 F 0.0 %A/C) 0.00 %A/C HOLD %A/C

Measured By	VSscale	RSscale	A/C	DstLss	Vir 1	Vir 2	Vir 3	Vir 4	Vir 5	Vir 6	Vir 7	Vir 8	Vir 9	Vir 10	Vir 11	Vir 12	Vir 13	Rep 14	Rep 15	Rep 1
Moisture %	3.3	2.5	N/A	N/A	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach
Rate dTPH	-2	+	16.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total1 T	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total2 T	9197.6	9710.7	0.13	0.0	1700.1	0.0	0.0	128.3	0.0	2236.9	5979.9	0.0	78.7	0.0	0.0	0.0	18.3	4459.5	1230.9	3562.7
Blend Perc.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Errors	0	0	1	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

HPod17 Add 10

Measured By	none	Tach
Moisture %	0.0	1.000
Rate dTPH	0.0	0.00
Total1 T	0.0	0.0
Total2 T	0.0	0.0
Blend Perc.	0.0	0.0
Errors	0	0

B70028.S01 Ajax Material Process on 8/31/2018 5:50 AM

English - Mix: '302 - 1100 Hearing' 0 TPH @ 77 F 0.00 %A/C Mix T: +.0 Inc T: 0.00 8/31/2018 5:50:42 AM

JMN: 'All Retailers' (Tank num5 : '64-22' 1.042 SpGr @ 294 F HOLD %A/C) 0.00 %A/C HOLD %A/C

Measured By	VSscale	RSscale	A/C	DstLss	Vir 1	Vir 2	Vir 3	Vir 4	Vir 5	Vir 6	Vir 7	Vir 8	Vir 9	Vir 10	Vir 11	Vir 12	Vir 13	Rep 14	Rep 15	Rep 1
Moisture %	3.3	2.5	N/A	N/A	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach
Rate dTPH	-3	-	15.9	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total1 T	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total2 T	9197.6	9710.7	0.13	0.0	1700.1	0.0	0.0	128.3	0.0	2236.9	5979.9	0.0	78.7	0.0	0.0	0.0	18.3	4459.5	1230.9	3562.7
Blend Perc.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Errors	0	0	0	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

HPod17 Add 10

Measured By	none	Tach
Moisture %	0.0	1.000
Rate dTPH	0.0	0.00
Total1 T	0.0	0.0
Total2 T	0.0	0.0
Blend Perc.	0.0	0.0
Errors	0	0

English - Mix: '302 - 1100 Hearing' 2 TPH @ 77 F 0.00 %A/C Mix T: +.0 Inc T: +.01 8/31/2018 5:50:59 AM

JMN: 'All Retailers' (Tank num5 : '64-22' 1.042 SpGr @ 294 F HOLD %A/C) 0.00 %A/C HOLD %A/C

Measured By	VSscale	RSscale	A/C	DstLss	Vir 1	Vir 2	Vir 3	Vir 4	Vir 5	Vir 6	Vir 7	Vir 8	Vir 9	Vir 10	Vir 11	Vir 12	Vir 13	Rep 14	Rep 15	Rep 1
Moisture %	3.3	2.5	N/A	N/A	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach
Rate dTPH	-2	+	16.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total1 T	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total2 T	9197.6	9710.7	0.13	0.0	1700.1	0.0	0.0	128.3	0.0	2236.9	5979.9	0.0	78.7	0.0	0.0	0.0	18.3	4459.5	1230.9	3562.7
Blend Perc.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Errors	0	0	1	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

HPod17 Add 10

Measured By	none	Tach
Moisture %	0.0	1.000
Rate dTPH	0.0	0.00
Total1 T	0.0	0.0
Total2 T	0.0	0.0
Blend Perc.	0.0	0.0
Errors	0	0

B70028.S01 Ajax Material Process off 8/31/2018 6:00 AM

B70028.S01 Ajax Material Process off 8/31/2018 6:15 AM

B70028.S01 Ajax Material Process on 8/31/2018 6:25 AM

English - Mix: '302 - 1100 Weaving' 136 TPH @ 72 F 0.00 %A/C Mix T: 4.8 Inc T: 4.71 8/31/2018 6:26:07 AM

JMN: 'All Retailers' Tank num5: '64-22' 1.042 SpGr @ 294 F 0.0 %A/C 0.00 %a rA/C 0.00 %a rA/C

Measured By	VScale	RScale	%A/C	DstLss	Vir 1	Vir 2	Vir 3	Vir 4	Vir 5	Vir 6	Vir 7	Vir 8	Vir 9	Vir 10	Vir 11	Vir 12	Vir 13	Rap 14	Rap 15	Rap 1	
	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	
Moisture %	3.5	2.5	N/A	N/A	3.0	2.9	3.5	4.0	7.0	3.0	3.7	4.0	1.0	3.6	3.6	1.4	1.0	2.5	3.0	3.0	
Rate dTPH	263	80	15.9	0.0	0	0	80	56	0	0	124	0	39	0	0	0	0	88	0	0	
Total1 T	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total2 T	9190.4	9710.7	0.13	0.0	1780.1	0.0	0.0	128.3	0.0	2236.9	5979.9	0.0	70.7	0.0	0.0	0.0	0.0	10.3	4459.5	1230.9	3562.7
Blend Perc.	76.6	23.4	0.0	0.0	0.0	0.0	20.6	14.5	0.0	0.0	31.9	0.0	10.2	0.0	0.0	0.0	0.0	22.0	0.0	0.0	
Errors	0	0	13	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

English - Mix: '338 - 36A Tier 1 RAP' 326 TPH @ 221 F 6.67 %A/C Mix T: 22.2 Inc T: 21.30 8/31/2018 6:30:03 AM

JMN: 'ASI' Tank num5: '64-22' 1.042 SpGr @ 293 F 5.0 %A/C 5.61 %a rA/C 1.06 %a rA/C

Measured By	VScale	RScale	%A/C	DstLss	Vir 1	Vir 2	Vir 3	Vir 4	Vir 5	Vir 6	Vir 7	Vir 8	Vir 9	Vir 10	Vir 11	Vir 12	Vir 13	Rap 14	Rap 15	Rap 1
	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach
Moisture %	3.5	2.5	N/A	N/A	3.0	2.9	3.5	4.0	7.0	3.0	3.7	4.0	1.0	3.6	3.6	1.4	1.0	2.5	3.0	3.0
Rate dTPH	265	96	21.0	0.0	0	0	80	56	0	0	123	0	40	0	0	0	0	100	0	0
Total1 T	37.8	7.0	1.21	0.0	0.0	0.0	12.5	8.0	0.0	0.0	19.6	0.0	6.4	0.0	0.0	0.0	0.0	9.1	0.0	0.0
Total2 T	2480.8	930.5	1.21	0.0	0.0	0.0	734.1	540.0	0.0	0.0	1122.9	0.0	367.2	0.0	0.0	0.0	0.0	086.7	0.0	0.0
Blend Perc.	73.4	26.6	5.0	0.0	0.0	0.0	20.0	14.0	0.0	0.0	30.9	0.0	10.0	0.0	0.0	0.0	0.0	25.0	0.0	0.0
Errors	2	0	11	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

↓ CHEAT SHEET ↓

English - Mix: '330 - 36A Tier 1 RAP' 307 TPH @ 307 F 7.00 %A/C Mix T: 19.0 Inc T: 96.03 8/31/2018 6:45:03 AM

JMN: 'ASI' Tank num5: '64-22' 1.042 SpGr @ 293 F 5.0 %A/C 5.75 %a rA/C 1.25 %a rA/C

Measured By	VScale	RScale	%A/C	DstLss	Vir 1	Vir 2	Vir 3	Vir 4	Vir 5	Vir 6	Vir 7	Vir 8	Vir 9	Vir 10	Vir 11	Vir 12	Vir 13	Rap 14	Rap 15	Rap 1
	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach
Moisture %	3.5	2.5	N/A	N/A	3.0	2.9	3.5	4.0	7.0	3.0	3.7	4.0	1.0	3.6	3.6	1.4	1.0	2.5	3.0	3.0
Rate dTPH	268	97	22.1	0.0	0	0	80	56	0	0	124	0	40	0	0	0	0	102	0	0
Total1 T	105.2	31.2	6.70	0.0	0.0	0.0	32.5	22.0	0.0	0.0	50.5	0.0	16.4	0.0	0.0	0.0	0.0	34.1	0.0	0.0
Total2 T	2540.2	962.7	6.70	0.0	0.0	0.0	754.1	554.0	0.0	0.0	1153.8	0.0	377.2	0.0	0.0	0.0	0.0	911.7	0.0	0.0
Blend Perc.	73.4	26.6	5.7	0.0	0.0	0.0	19.9	13.9	0.0	0.0	30.9	0.0	9.9	0.0	0.0	0.0	0.0	25.3	0.0	0.0
Errors	3	0	0	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

KEY:
 1 - TONS PER HOUR VIRGIN AGGS.
 2 - MIX DESIGN
 3 - 13 VIRGIN FEED BINS
 4 - 5 RAP BINS
 5 - ASPHALT CEMENT TYPE / SP. GR. AND % OF THE MIX
 6 - SET RATE TPH PRODUCTION
 7 - TEMPERATURE OF MIX
 8 - % ASPHALT CEMENT IN RAP
 9 - DATE
 10 - TIME

English - Mix: '338 - 36A Tier 1 RAP' 389 TPH @ 319 F 6.99 %A/C Mix T: 216.2 Inc T: 97.20 8/31/2018 7:00:03 AM

JMN: 'ASI' Tank num5: '64-22' 1.042 SpGr @ 294 F 5.0 %A/C 5.74 %a rA/C 1.25 %a rA/C

Measured By	VScale	RScale	%A/C	DstLss	Vir 1	Vir 2	Vir 3	Vir 4	Vir 5	Vir 6	Vir 7	Vir 8	Vir 9	Vir 10	Vir 11	Vir 12	Vir 13	Rap 14	Rap 15	Rap 1
	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach
Moisture %	3.5	2.5	N/A	N/A	3.0	2.9	3.5	4.0	7.0	3.0	3.7	4.0	1.0	3.6	3.6	1.4	1.0	2.5	3.0	3.0
Rate dTPH	279	95	22.3	0.0	0	0	80	56	0	0	124	0	40	0	0	0	0	100	0	0
Total1 T	172.2	55.6	12.35	0.0	0.0	0.0	52.5	36.8	0.0	0.0	81.3	0.0	26.4	0.0	0.0	0.0	0.0	59.1	0.0	0.0
Total2 T	2615.2	987.1	12.35	0.0	0.0	0.0	774.1	560.0	0.0	0.0	1184.6	0.0	387.2	0.0	0.0	0.0	0.0	936.7	0.0	0.0

Errors	17	0	2	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HPod17 Add 10																			
Measured By	none	Tach																	
Moisture %	0.0	1.000																	
Rate dTPH	0.0	0.00																	
Total1 T	0.0	0.0																	
Total2 T	0.0	0.0																	
Blend Perc.	0.0	0.0																	
Errors	0	0																	

English - Mix: '330 - 36A Tier 1 RAP' 308 TPH @ 316 F 6.99 %A/C Mix T: 313.1 Inc T: 96.92 8/31/2010 7:15:03 AM

JMN: 'ASI' (Tank num5 : '64-22') 1.042 SpGr @ 294 F 5.0 %A/C) 5.75 %m +A/C 1.25 %m rA/C

	VScale	RScale	+A/C	DstLss	Vir 1	Vir 2	Vir 3	Vir 4	Vir 5	Vir 6	Vir 7	Vir 8	Vir 9	Vir 10	Vir 11	Vir 12	Vir 13	Rap 14	Rap 15	Rap 1
Measured By					Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach
Moisture %	3.5	2.5	N/A	N/A	3.0	2.9	3.5	4.8	7.0	3.0	3.7	4.0	1.0	3.6	3.6	1.4	1.0	2.5	3.0	3.0
Rate dTPH	260	98	22.7	0.0	0	0	80	56	0	0	124	0	40	0	0	0	0	100	0	0
Total1 T	239.4	79.0	17.92	0.0	0.0	0.0	72.5	50.0	0.0	0.0	112.2	0.0	36.4	0.0	0.0	0.0	0.0	84.1	0.0	0.0
Total2 T	2502.4	1011.3	17.92	0.0	0.0	0.0	794.1	582.0	0.0	0.0	1215.4	0.0	397.2	0.0	0.0	0.0	0.0	961.7	0.0	0.0
Blend Perc.	73.3	26.7	5.6	0.0	0.0	0.0	20.1	14.0	0.0	0.0	31.0	0.0	10.0	0.0	0.0	0.0	0.0	24.9	0.0	0.0
Errors	17	0	0	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

HPod17 Add 10

Measured By	none	Tach																	
Moisture %	0.0	1.000																	
Rate dTPH	0.0	0.00																	
Total1 T	0.0	0.0																	
Total2 T	0.0	0.0																	
Blend Perc.	0.0	0.0																	
Errors	0	0																	

English - Mix: '330 - 36A Tier 1 RAP' 308 TPH @ 308 F 7.00 %A/C Mix T: 410.5 Inc T: 97.39 8/31/2010 7:30:03 AM

JMN: 'ASI' (Tank num5 : '64-22') 1.042 SpGr @ 294 F 5.0 %A/C) 5.74 %m +A/C 1.26 %m rA/C

	VScale	RScale	+A/C	DstLss	Vir 1	Vir 2	Vir 3	Vir 4	Vir 5	Vir 6	Vir 7	Vir 8	Vir 9	Vir 10	Vir 11	Vir 12	Vir 13	Rap 14	Rap 15	Rap 1
Measured By					Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach
Moisture %	3.3	2.5	N/A	N/A	3.0	2.9	3.5	4.8	7.0	3.0	3.7	4.0	1.0	3.6	3.6	1.4	1.0	2.5	3.0	3.0
Rate dTPH	107	100	22.3	0.0	57	0	0	0	0	58	96	0	0	0	0	0	0	101	0	0
Total1 T	295.0	104.3	23.51	0.0	0.0	0.0	80.0	61.6	0.0	0.0	135.0	0.0	44.0	0.0	0.0	0.0	0.0	109.1	0.0	0.0
Total2 T	2738.9	1035.0	23.51	0.0	0.0	0.0	809.6	592.9	0.0	0.0	1239.0	0.0	404.0	0.0	0.0	0.0	0.0	986.7	0.0	0.0
Blend Perc.	65.1	34.9	5.8	0.0	10.3	0.0	0.0	0.0	0.0	18.7	30.7	0.0	0.0	0.0	0.0	0.0	0.0	32.3	0.0	0.0
Errors	33	0	0	N/A	1	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0

HPod17 Add 10

Measured By	none	Tach																	
Moisture %	0.0	1.000																	
Rate dTPH	0.0	0.00																	
Total1 T	0.0	0.0																	
Total2 T	0.0	0.0																	
Blend Perc.	0.0	0.0																	
Errors	1	0																	

English - Mix: '330 - 36A Tier 1 RAP' 308 TPH @ 317 F 6.99 %A/C Mix T: 427.1 Inc T: 16.59 8/31/2010 7:32:37 AM

JMN: 'ASI' (Tank num5 : '64-22') 1.042 SpGr @ 295 F 5.0 %A/C) 5.72 %m +A/C 1.27 %m rA/C

	VScale	RScale	+A/C	DstLss	Vir 1	Vir 2	Vir 3	Vir 4	Vir 5	Vir 6	Vir 7	Vir 8	Vir 9	Vir 10	Vir 11	Vir 12	Vir 13	Rap 14	Rap 15	Rap 1
Measured By					Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach
Moisture %	3.3	2.6	N/A	N/A	3.0	2.9	3.5	4.8	7.0	3.0	3.7	4.0	1.0	3.6	3.6	1.4	1.0	2.5	3.0	3.0
Rate dTPH	194	171	15.7	0.0	60	0	0	0	0	60	100	0	0	0	0	0	0	135	38	0
Total1 T	295.0	106.0	24.45	0.0	0.0	0.0	80.0	61.6	0.0	0.0	135.0	0.0	44.0	0.0	0.0	0.0	0.0	102.0	0.0	0.0
Total2 T	2738.9	1037.5	24.45	0.0	0.0	0.0	809.6	592.9	0.0	0.0	1239.0	0.0	404.0	0.0	0.0	0.0	0.0	987.4	0.0	0.0
Blend Perc.	53.0	47.0	5.3	0.0	15.3	0.0	0.0	0.0	0.0	15.3	25.3	0.0	0.0	0.0	0.0	0.0	0.0	34.3	9.8	0.0
Errors	0	17	2	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

HPod17 Add 10

Measured By	none	Tach																	
Moisture %	0.0	1.000																	
Rate dTPH	0.0	0.00																	
Total1 T	0.0	0.0																	
Total2 T	0.0	0.0																	
Blend Perc.	0.0	0.0																	
Errors	0	0																	

Blend Perc.	52.5	47.5	3.6	0.0	15.1	0.0	0.0	0.0	0.0	14.7	25.1	0.0	0.0	0.0	0.0	0.0	0.0	35.1	9.9	0.0
Errors	5	1	0	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

HPod17 Add 18

Measured By	none	Tach
Moisture %	0.0	1.000
Rate dTPH	0.0	0.00
Total1 T	0.0	0.0
Total2 T	0.0	0.0
Blend Perc.	0.0	0.0
Errors	0	0

English - Mix: '302 - 1100 Wearing' 374 TPH @ 319 F 6.09 %wA/C Mix T: 692.5 Inc T: 93.59 8/31/2018 8:15:03 AM

JMW: 'All Retailers' (Tank num: '52-20' 1.032 SpGr @ 294 F 5.6 %wA/C) 3.52 %w A/C 2.57 %w rA/C

	VScale	RScale	+A/C	DstLss	Vir 1	Vir 2	Vir 3	Vir 4	Vir 5	Vir 6	Vir 7	Vir 8	Vir 9	Vir 10	Vir 11	Vir 12	Vir 13	Rap 14	Rap 15	Rap 1
Measured By					Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach
Moisture %	3.3	2.6	N/A	N/A	3.0	2.9	3.5	4.0	7.0	3.0	3.7	4.0	1.0	3.6	3.6	1.4	1.0	2.5	3.0	3.0
Rate dTPH	189	160	13.4	0.0	60	0	0	0	0	60	100	0	0	0	0	0	0	140	41	0
Total1 T	150.0	126.3	9.35	0.0	40.2	0.0	0.0	0.0	0.0	40.3	80.7	0.0	0.0	0.0	0.0	0.0	0.0	183.8	29.7	0.0
Total2 T	9340.3	9836.9	770.40	0.0	1020.3	0.0	0.0	120.3	0.0	2205.2	6060.6	0.0	70.7	0.0	0.0	0.0	10.3	4563.3	1260.5	3562.7
Blend Perc.	52.9	47.1	3.6	0.0	14.9	0.0	0.0	0.0	0.0	15.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	35.0	10.1	0.0
Errors	73	0	0	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

HPod17 Add 18

Measured By	none	Tach
Moisture %	0.0	1.000
Rate dTPH	0.0	0.00
Total1 T	0.0	0.0
Total2 T	0.0	0.0
Blend Perc.	0.0	0.0
Errors	0	0

English - Mix: '302 - 1100 Wearing' 376 TPH @ 323 F 6.09 %wA/C Mix T: 786.5 Inc T: 94.02 8/31/2018 8:30:03 AM

JMW: 'All Retailers' (Tank num: '52-20' 1.032 SpGr @ 294 F 5.6 %wA/C) 3.57 %w A/C 2.52 %w rA/C

	VScale	RScale	+A/C	DstLss	Vir 1	Vir 2	Vir 3	Vir 4	Vir 5	Vir 6	Vir 7	Vir 8	Vir 9	Vir 10	Vir 11	Vir 12	Vir 13	Rap 14	Rap 15	Rap 1
Measured By					Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach
Moisture %	3.3	2.6	N/A	N/A	3.0	2.9	3.5	4.0	7.0	3.0	3.7	4.0	1.0	3.6	3.6	1.4	1.0	2.5	3.0	3.0
Rate dTPH	185	132	14.3	0.0	60	0	0	0	0	60	100	0	0	0	0	0	0	141	30	0
Total1 T	190.7	160.0	12.71	0.0	63.2	0.0	0.0	0.0	0.0	63.3	105.7	0.0	0.0	0.0	0.0	0.0	0.0	130.8	39.7	0.0
Total2 T	9396.2	9879.4	773.04	0.0	1043.3	0.0	0.0	120.3	0.0	2300.2	6005.6	0.0	70.7	0.0	0.0	0.0	10.3	4590.3	1270.6	3562.7
Blend Perc.	50.3	41.7	3.5	0.0	15.1	0.0	0.0	0.0	0.0	15.1	25.0	0.0	0.0	0.0	0.0	0.0	0.0	35.2	9.6	0.0
Errors	9	12	0	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

HPod17 Add 18

Measured By	none	Tach
Moisture %	0.0	1.000
Rate dTPH	0.0	0.00
Total1 T	0.0	0.0
Total2 T	0.0	0.0
Blend Perc.	0.0	0.0
Errors	0	0

English - Mix: '302 - 1100 Wearing' 374 TPH @ 309 F 6.09 %wA/C Mix T: 800.1 Inc T: 93.54 8/31/2018 8:45:03 AM

JMW: 'All Retailers' (Tank num: '52-20' 1.032 SpGr @ 294 F 5.6 %wA/C) 3.50 %w A/C 2.51 %w rA/C

	VScale	RScale	+A/C	DstLss	Vir 1	Vir 2	Vir 3	Vir 4	Vir 5	Vir 6	Vir 7	Vir 8	Vir 9	Vir 10	Vir 11	Vir 12	Vir 13	Rap 14	Rap 15	Rap 1
Measured By					Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach
Moisture %	3.3	2.6	N/A	N/A	3.0	2.9	3.5	4.0	7.0	3.0	3.7	4.0	1.0	3.6	3.6	1.4	1.0	2.5	3.0	3.0
Rate dTPH	191	176	13.3	0.0	60	0	0	0	0	60	100	0	0	0	0	0	0	140	39	0
Total1 T	246.6	211.4	16.05	0.0	70.2	0.0	0.0	0.0	0.0	70.3	130.7	0.0	0.0	0.0	0.0	0.0	0.0	173.8	49.7	0.0
Total2 T	9444.2	9922.0	777.18	0.0	1050.3	0.0	0.0	120.3	0.0	2315.2	6110.5	0.0	70.7	0.0	0.0	0.0	10.3	4633.3	1200.5	3562.7
Blend Perc.	52.1	47.9	3.6	0.0	15.0	0.0	0.0	0.0	0.0	15.0	25.1	0.0	0.0	0.0	0.0	0.0	0.0	35.1	9.9	0.0
Errors	6	0	0	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

HPod17 Add 18

Measured By	none	Tach
Moisture %	0.0	1.000
Rate dTPH	0.0	0.00
Total1 T	0.0	0.0
Total2 T	0.0	0.0
Blend Perc.	0.0	0.0
Errors	0	0

Total2 T	2761.6	1040.3	24.46	0.0	0.0	0.0	0.0	817.6	598.5	0.0	0.0	1251.7	0.0	409.0	0.0	0.0	0.0	0.0	991.2	0.0	0.0
Blend Perc.	73.5	26.5	4.8	0.0	0.0	0.0	20.0	14.0	0.0	0.0	31.0	0.0	10.1	0.0	0.0	0.0	0.0	0.0	24.8	0.0	0.0
Errors	0	0	0	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

HPod17 Add 18

Measured By	none	Tach
Moisture %	0.0	1.000
Rate dTPH	0.0	0.00
Total1 T	0.0	0.0
Total2 T	0.0	0.0
Blend Perc.	0.0	0.0
Errors	0	0

English - Mix: '338 - 36A Tier 1 RAP' 409 TPH @ 377 F 6.97 %A/C Mix T: 1070.4 Inc T: 4.20 8/31/2018 9:15:03 AM
 JMN: 'ASI' (Tank num5 : '64-22' 1.042 SpGr @ 296 F 5.0 %A/C) 5.50 %A/C 1.47 %A/C

	VScale	RScale	%A/C	DstLss	Vir 1	Vir 2	Vir 3	Vir 4	Vir 5	Vir 6	Vir 7	Vir 8	Vir 9	Vir 10	Vir 11	Vir 12	Vir 13	Rap 14	Rap 15	Rap 1
Measured By					Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach
Moisture %	3.5	2.5	N/A	N/A	3.0	2.9	3.3	4.8	7.0	3.0	3.7	4.0	1.0	3.6	3.6	1.4	1.0	2.5	3.0	3.0
Rate dTPH	268	98	22.1	0.0	0	0	80	56	0	0	124	0	40	0	0	0	0	100	0	0
Total1 T	321.2	109.8	24.60	0.0	0.0	0.0	96.8	67.8	0.0	0.0	149.7	0.0	48.5	0.0	0.0	0.0	0.0	114.6	0.0	0.0
Total2 T	2764.2	1041.3	24.60	0.0	0.0	0.0	818.4	599.0	0.0	0.0	1252.9	0.0	409.4	0.0	0.0	0.0	0.0	992.2	0.0	0.0
Blend Perc.	73.3	26.7	5.7	0.0	0.0	0.0	20.1	14.0	0.0	0.0	31.0	0.0	10.0	0.0	0.0	0.0	0.0	24.9	0.0	0.0
Errors	0	0	0	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

HPod17 Add 18

Measured By	none	Tach
Moisture %	0.0	1.000
Rate dTPH	0.0	0.00
Total1 T	0.0	0.0
Total2 T	0.0	0.0
Blend Perc.	0.0	0.0
Errors	0	0

English - Mix: '338 - 36A Tier 1 RAP' 391 TPH @ 327 F 7.00 %A/C Mix T: 1168.1 Inc T: 97.75 8/31/2018 9:30:03 AM
 JMN: 'ASI' (Tank num5 : '64-22' 1.042 SpGr @ 294 F 5.0 %A/C) 5.74 %A/C 1.26 %A/C

	VScale	RScale	%A/C	DstLss	Vir 1	Vir 2	Vir 3	Vir 4	Vir 5	Vir 6	Vir 7	Vir 8	Vir 9	Vir 10	Vir 11	Vir 12	Vir 13	Rap 14	Rap 15	Rap 1
Measured By					Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach
Moisture %	3.5	2.5	N/A	N/A	3.0	2.9	3.5	4.8	7.0	3.0	3.7	4.0	1.0	3.6	3.6	1.4	1.0	2.5	3.0	3.0
Rate dTPH	273	99	22.6	0.0	0	0	80	55	0	0	124	0	40	0	0	0	0	100	0	0
Total1 T	308.8	134.4	30.29	0.0	0.0	0.0	116.8	81.8	0.0	0.0	180.5	0.0	58.5	0.0	0.0	0.0	0.0	139.6	0.0	0.0
Total2 T	2831.8	1065.9	30.29	0.0	0.0	0.0	838.4	613.0	0.0	0.0	1283.8	0.0	419.4	0.0	0.0	0.0	0.0	1017.2	0.0	0.0
Blend Perc.	73.4	26.6	5.8	0.0	0.0	0.0	20.1	13.9	0.0	0.0	31.1	0.0	10.1	0.0	0.0	0.0	0.0	24.9	0.0	0.0
Errors	0	0	0	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

HPod17 Add 18

Measured By	none	Tach
Moisture %	0.0	1.000
Rate dTPH	0.0	0.00
Total1 T	0.0	0.0
Total2 T	0.0	0.0
Blend Perc.	0.0	0.0
Errors	0	0

English - Mix: '338 - 36A Tier 1 RAP' 390 TPH @ 325 F 7.00 %A/C Mix T: 1265.5 Inc T: 97.41 8/31/2018 9:45:03 AM
 JMN: 'ASI' (Tank num5 : '64-22' 1.042 SpGr @ 296 F 5.0 %A/C) 5.74 %A/C 1.25 %A/C

	VScale	RScale	%A/C	DstLss	Vir 1	Vir 2	Vir 3	Vir 4	Vir 5	Vir 6	Vir 7	Vir 8	Vir 9	Vir 10	Vir 11	Vir 12	Vir 13	Rap 14	Rap 15	Rap 1
Measured By					Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach
Moisture %	3.5	2.5	N/A	N/A	3.0	2.9	3.5	4.8	7.0	3.0	3.7	4.0	1.0	3.6	3.6	1.4	1.0	2.5	3.0	3.0
Rate dTPH	272	96	22.1	0.0	0	0	80	56	0	0	124	0	39	0	0	0	0	100	0	0
Total1 T	456.2	158.8	35.88	0.0	0.0	0.0	136.8	95.8	0.0	0.0	211.4	0.0	68.5	0.0	0.0	0.0	0.0	164.6	0.0	0.0
Total2 T	2899.2	1098.3	35.88	0.0	0.0	0.0	858.4	627.0	0.0	0.0	1314.6	0.0	429.4	0.0	0.0	0.0	0.0	1042.2	0.0	0.0
Blend Perc.	73.8	26.2	5.7	0.0	0.0	0.0	20.1	14.1	0.0	0.0	31.1	0.0	9.8	0.0	0.0	0.0	0.0	24.9	0.0	0.0
Errors	1	0	0	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

HPod17 Add 18

Measured By	none	Tach
Moisture %	0.0	1.000
Rate dTPH	0.0	0.00
Total1 T	0.0	0.0
Total2 T	0.0	0.0

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Blend Perc. 0.0 0.0
Errors 0 0

English - Mix: '330 - 36A Tier 1 RAP' 330 TPH @ 318 F 7.00 %wA/C Mix T: 1363.0 Inc T: 97.49 8/31/2018 10:00:03 AM
JMN: 'ASI' [Tank num5 : '64-22' 1.042 SpGr @ 297 F 5.0 %wA/C] 5.74 %wA/C 1.26 %wA/C

Measured By	VScale	RScale	+A/C	DstLss	Vir 1	Vir 2	Vir 3	Vir 4	Vir 5	Vir 6	Vir 7	Vir 8	Vir 9	Vir 10	Vir 11	Vir 12	Vir 13	Rap 14	Rap 15	Rap 1
Moisture %	3.5	2.5	N/A	N/A	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach
Rate dTPH	272	97	22.2	0.0	0	0	80	56	0	0	123	0	40	0	0	0	0	100	0	0
Total1 T	523.6	183.3	41.40	0.0	0.0	0.0	156.0	109.0	0.0	0.0	242.2	0.0	78.5	0.0	0.0	0.0	0.0	189.6	0.0	0.0
Total2 T	2966.6	1114.8	41.40	0.0	0.0	0.0	870.4	641.0	0.0	0.0	1345.5	0.0	439.4	0.0	0.0	0.0	0.0	1067.2	0.0	0.0
Blend Perc.	73.7	26.3	5.7	0.0	0.0	0.0	20.0	14.0	0.0	0.0	30.9	0.0	10.0	0.0	0.0	0.0	0.0	25.0	0.0	0.0
Errors	10	0	1	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

HPod17 Add 10

Measured By	none	Tach
Moisture %	0.0	1.000
Rate dTPH	0.0	0.00
Total1 T	0.0	0.0
Total2 T	0.0	0.0
Blend Perc.	0.0	0.0
Errors	0	0

English - Mix: '330 - 36A Tier 1 RAP' 330 TPH @ 321 F 7.00 %wA/C Mix T: 1460.4 Inc T: 97.39 8/31/2018 10:15:03 AM
JMN: 'ASI' [Tank num5 : '64-22' 1.042 SpGr @ 297 F 5.0 %wA/C] 5.74 %wA/C 1.26 %wA/C

Measured By	VScale	RScale	+A/C	DstLss	Vir 1	Vir 2	Vir 3	Vir 4	Vir 5	Vir 6	Vir 7	Vir 8	Vir 9	Vir 10	Vir 11	Vir 12	Vir 13	Rap 14	Rap 15	Rap 1
Moisture %	3.5	2.5	N/A	N/A	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach
Rate dTPH	266	100	22.1	0.0	0	0	80	56	0	0	124	0	40	0	0	0	0	102	0	0
Total1 T	530.8	207.9	47.06	0.0	0.0	0.0	176.0	123.0	0.0	0.0	273.1	0.0	80.5	0.0	0.0	0.0	0.0	214.6	0.0	0.0
Total2 T	3033.8	1139.4	47.06	0.0	0.0	0.0	890.4	655.0	0.0	0.0	1376.3	0.0	449.4	0.0	0.0	0.0	0.0	1092.2	0.0	0.0
Blend Perc.	72.7	27.3	5.7	0.0	0.0	0.0	19.9	14.0	0.0	0.0	30.9	0.0	10.0	0.0	0.0	0.0	0.0	25.3	0.0	0.0
Errors	10	0	0	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

HPod17 Add 10

Measured By	none	Tach
Moisture %	0.0	1.000
Rate dTPH	0.0	0.00
Total1 T	0.0	0.0
Total2 T	0.0	0.0
Blend Perc.	0.0	0.0
Errors	0	0

English - Mix: '330 - 36A Tier 1 RAP' 331 TPH @ 307 F 7.00 %wA/C Mix T: 1558.1 Inc T: 97.67 8/31/2018 10:30:03 AM
JMN: 'ASI' [Tank num5 : '64-22' 1.042 SpGr @ 290 F 5.0 %wA/C] 5.74 %wA/C 1.26 %wA/C

Measured By	VScale	RScale	+A/C	DstLss	Vir 1	Vir 2	Vir 3	Vir 4	Vir 5	Vir 6	Vir 7	Vir 8	Vir 9	Vir 10	Vir 11	Vir 12	Vir 13	Rap 14	Rap 15	Rap 1
Moisture %	3.5	2.5	N/A	N/A	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach
Rate dTPH	+	99	22.7	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	99	0	0
Total1 T	646.6	232.5	52.66	0.0	0.0	0.0	192.3	134.6	0.0	0.0	236.6	0.0	96.1	0.0	0.0	0.0	0.0	229.6	0.0	0.0
Total2 T	3009.6	1164.0	52.66	0.0	0.0	0.0	913.9	665.8	0.0	0.0	1393.8	0.0	456.9	0.0	0.0	0.0	0.0	1117.2	0.0	0.0
Blend Perc.	0.0	100.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
Errors	19	0	0	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

HPod17 Add 10

Measured By	none	Tach
Moisture %	0.0	1.000
Rate dTPH	0.0	0.00
Total1 T	0.0	0.0
Total2 T	0.0	0.0
Blend Perc.	0.0	0.0
Errors	0	0

English - Mix: '330 - 36A Tier 1 RAP' 346 TPH @ 293 F 6.92 %wA/C Mix T: 1574.4 Inc T: 16.35 8/31/2018 10:32:53 AM
JMN: 'ASI' [Tank num5 : '64-22' 1.042 SpGr @ 290 F 0.0 %wA/C] 5.60 %wA/C ++++ %wA/C

Measured By	VScale	RScale	+A/C	DstLss	Vir 1	Vir 2	Vir 3	Vir 4	Vir 5	Vir 6	Vir 7	Vir 8	Vir 9	Vir 10	Vir 11	Vir 12	Vir 13	Rap 14	Rap 15	Rap 1
Moisture %	3.5	2.5	N/A	N/A	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach	Tach
Rate dTPH	-2	+	15.9	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	15.9	0	0

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Total1 T	646.6	234.7	53.60	0.0	0.0	0.0	192.3	134.6	0.0	0.0	296.6	0.0	96.1	0.0	0.0	0.0	0.0	240.2	0.0	0.0
Total2 T	3089.6	1166.1	53.60	0.0	0.0	0.0	913.9	665.8	0.0	0.0	1399.8	0.0	456.9	0.0	0.0	0.0	0.0	1117.8	0.0	0.0
Blend Perc.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Errors	0	0	20	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

HPod17 Add 18

Measured By	none	Tach
Moisture %	0.0	1.000
Rate dTPH	0.0	0.00
Total1 T	0.0	0.0
Total2 T	0.0	0.0
Blend Perc.	0.0	0.0
Errors	0	0

B70020.S01	Ajax Material	Process off	8/31/2018 10:45 AM
B70020.S01	Ajax Material	Process off	8/31/2018 11:00 AM
B70020.S01	Ajax Material	Process off	8/31/2018 11:15 AM
B70020.S01	Ajax Material	Process off	8/31/2018 11:30 AM
B70020.S01	Ajax Material	Process off	8/31/2018 11:45 AM
B70020.S01	Ajax Material	Process off	8/31/2018 12:00 PM
B70020.S01	Ajax Material	Process off	8/31/2018 12:03 PM
B70020.S01	Ajax Material	Process off	8/31/2018 12:03 PM
B70020.S01	Ajax Material	Process off	8/31/2018 12:15 PM
B70020.S01	Ajax Material	Process off	8/31/2018 12:30 PM
B70020.S01	Ajax Material	Process off	8/31/2018 12:45 PM
B70020.S01	Ajax Material	Process off	8/31/2018 1:00 PM
B70020.S01	Ajax Material	Process off	8/31/2018 1:15 PM
B70020.S01	Ajax Material	Process off	8/31/2018 1:30 PM
B70020.S01	Ajax Material	Process off	8/31/2018 1:45 PM
B70020.S01	Ajax Material	Process off	8/31/2018 2:00 PM
B70020.S01	Ajax Material	Process off	8/31/2018 2:15 PM
B70020.S01	Ajax Material	Process off	8/31/2018 2:30 PM
B70020.S01	Ajax Material	Process off	8/31/2018 2:36 PM
B70020.S01	Ajax Material	Process off	8/31/2018 2:45 PM
B70020.S01	Ajax Material	Process off	8/31/2018 3:00 PM
B70020.S01	Ajax Material	Process off	8/31/2018 3:15 PM
B70020.S01	Ajax Material	Process off	8/31/2018 3:30 PM
B70020.S01	Ajax Material	Process off	8/31/2018 3:45 PM
B70020.S01	Ajax Material	Process off	8/31/2018 4:00 PM
B70020.S01	Ajax Material	Process off	8/31/2018 4:15 PM



Ajax Materials Corporation

Production Report

Plant: Brighton

Dates: 4/1/2018 To 6/26/2018

DEQ-AQD LANSING D.O.

Brighton

JUN 26 2018

<u>Date</u>	<u>Mix Name</u>	<u>Tons</u>
5/17/2018	36A OCRC	860.30
5/17/2018	5E 3 T1	74.50
5/18/2018	1100 Wearing	724.70
5/18/2018	36A OCRC	430.20
5/18/2018	5E 3	1,235.40
5/18/2018	5E 3 T1	51.50
5/20/2018	1100 Wearing	288.50
5/20/2018	5E 3 T1	479.80
5/21/2018	3C OCRC	135.20
5/21/2018	4C OCRC	101.20
5/21/2018	5E 3	3,935.20
5/22/2018	1100 Wearing	935.00
5/22/2018	5E 3	3,338.70
5/23/2018	1100 Wearing	522.60
5/23/2018	13A OCRC	0.00
5/23/2018	13A Lev	214.30
5/23/2018	5E 3	3,710.80
5/24/2018	1100 Wearing	232.60
5/24/2018	13A Lev	344.00
5/24/2018	4E1	258.70
5/24/2018	5E 3	1,351.40
5/25/2018	13A Tier I Rap	503.90
5/25/2018	4E1	61.50
5/25/2018	5E 3	1,247.80
5/25/2018	LVSP Wearing	521.20
5/29/2018	1100 Leveling	453.90
5/29/2018	1100 Wearing	326.60

Brighton

<u>Date</u>	<u>Mix Name</u>	<u>Tons</u>
5/29/2018	13A PMS	502.60
5/29/2018	5E 3	3,626.40
5/30/2018	1100 Leveling	129.20
5/30/2018	1100 Wearing	166.30
5/30/2018	5E 3	2,094.70
5/31/2018	2C OCRC	421.70
5/31/2018	1100 Wearing	793.20
5/31/2018	36A Tier I Rap	104.20
5/31/2018	5E 3	1,649.30
6/1/2018	2C OCRC	105.30
6/1/2018	3C OCRC	242.20
6/1/2018	1100 Wearing	1,124.00
6/1/2018	5E 3	821.60
6/2/2018	1100 Wearing	455.30
6/2/2018	13A OCRC	817.10
6/2/2018	36A Wearing	532.20
6/2/2018	5E 3	277.90
6/2/2018	5E 3	50.60
6/4/2018	1100 Wearing	424.00
6/4/2018	5E 3	800.00
6/4/2018	5E 3	100.00
6/4/2018	5E 3	712.00
6/4/2018	LVSP	223.00
6/5/2018	1100 Wearing	666.00
6/5/2018	36A Wearing	298.00
6/6/2018	Mix 2C	307.20
6/6/2018	1100 Wearing	959.60
6/6/2018	36A Wearing	121.00
6/6/2018	5E 3	2,335.50
6/7/2018	1100 Leveling	581.30
6/7/2018	1100 Wearing	1,165.30
6/7/2018	5E 3	2,341.70

Brighton

<u>Date</u>	<u>Mix Name</u>	<u>Tons</u>
6/8/2018	3C OCRC	136.00
6/8/2018	1100 Wearing	935.70
6/8/2018	5E 3	2,551.30
6/9/2018	1100 Leveling	566.60
6/9/2018	3C OCRC	27.80
6/9/2018	1100 Wearing	37.80
6/9/2018	13A OCRC	216.20
6/11/2018	3C OCRC	205.00
6/11/2018	1100 Wearing	93.60
6/11/2018	36A Wearing	654.90
6/12/2018	1100 Leveling	695.70
6/12/2018	1100 Wearing	495.50
6/12/2018	13A OCRC	1,181.90
6/12/2018	5E 3	76.60
6/12/2018	5E 3 T1	872.60
6/13/2018	Mix 2C	113.70
6/13/2018	3C OCRC	206.70
6/13/2018	1100 Wearing	294.60
6/13/2018	1100 Wearing	51.60
6/13/2018	13A	728.20
6/13/2018	13A OCRC	455.90
6/13/2018	13A OCRC	728.20
6/13/2018	5E 3	188.80
6/14/2018	1100 Leveling	306.00
6/14/2018	3C OCRC	123.60
6/14/2018	1100 Wearing	209.40
6/14/2018	1100 Wearing	45.70
6/14/2018	36A Wearing	78.30
6/14/2018	4E1	342.50
6/15/2018	2C OCRC	109.00
6/15/2018	3C OCRC	110.70
6/15/2018	1100 Wearing	0.00

Brighton

<u>Date</u>	<u>Mix Name</u>	<u>Tons</u>
6/15/2018	1100 Wearing	208.20
6/15/2018	13A	437.30
6/15/2018	5E 3	568.50
6/15/2018	5E 3	2,107.40
6/17/2018	3E 30	117.80
6/17/2018	1100 Wearing	231.00
6/17/2018	1100 Wearing	37.90
6/18/2018	1100 Wearing	475.90
6/18/2018	13A PMS	553.30
6/18/2018	5E 3	1,852.00
6/18/2018	5E 3 T1	1,314.00
6/18/2018	5E 3 T1	604.00
6/19/2018	1100 Wearing	392.20
6/19/2018	1100 Wearing	76.00
6/19/2018	36A OCRC	292.50
6/19/2018	36A Tier I Rap	351.80
6/20/2018	1100 Wearing	45.40
6/20/2018	36A Tier I Rap	158.10
6/20/2018	4E 3	160.90
6/20/2018	5E 3	90.00
6/20/2018	5E 3 HS	440.00
6/21/2018	1100 Wearing	333.30
6/21/2018	1100 Wearing	73.10
6/21/2018	5E 3	2,337.40
6/21/2018	5E 3 HS	1,150.00
6/22/2018	1100 Wearing	76.20
6/22/2018	1100 Wearing	403.20
6/22/2018	36A Wearing	666.40
6/24/2018	5E 3 HS	675.00
6/24/2018	5E 30 HS	67.00
6/25/2018	3C OCRC	1,540.70
6/25/2018	1100 Wearing	327.70

Brighton

<u>Date</u>	<u>Mix Name</u>	<u>Tons</u>
6/25/2018	36A OCRC	205.10
6/25/2018	36A Tier I Rap	329.90
6/25/2018	5E 3	1,804.20

Summary for Brighton-4/1/2018 To 6/26/2018:

Total Tons Produced (Virgin Mixes)	0.00
Total Tons Produced (All Mixes)	80,631.40
Average Virgin Mix Produced	0.0000%



Ajax Materials Corporation

Daily Road Maintenance

DEQ-AQD LANSING D.C.

JUN 26 2018

Plant: Brighton
 Beginning Date: 4/1/2018
 Ending Date: 6/26/2018

Brighton

Date	Swept Yard?	Swept Roads?	Watered Yard?	Watered Roads?	Watered Aggs?	Chloride Yard?	Chloride Roads?	Other Activity?	Reason For Dust Control Activity		Verified By
									Routine Maintenance?	Visible Dust?	
5/22/2018	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Steve Neifert
5/31/2018	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Steve Neifert
6/5/2018	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MIKE HERZFELD
6/8/2018	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Steve Neifert
6/9/2018	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Steve Neifert
6/10/2018	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Steve Neifert
6/11/2018	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Steve Neifert
6/17/2018	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Steve Neifert
6/20/2018	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Steve Neifert
6/22/2018	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Steve Neifert
6/24/2018	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MIKE HERZFELD