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ADM Grand Ledge, MI

AIR QUALITY DIVISION

Emissions Test Report

15k Dust Collector, 50k bph Leg, Rail Loading Pit,
30k bph High Roller, 40k bph Screener
80k bph Bulkweigher Rail Loading Spout
50k bph High Roller feeding 50k Leg,
15k bph Drag running from 50k Leg to House

Plant ID No. M3912

Particulate Matter and Visible Emissions

Test Dates: March 18 thru March 21, 2019

Report Date: March 30, 2019

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EXECUTIVE SUMMARY

From March 18 to March 21, 2019, Sam Turner and Rick Dancey performed compliance testing to verify the performance of visible emissions and particulate matter (PM), at the ADM Grain facility in Grand Ledge MI. Measurements of O₂/CO₂, were done by a Fyrite analyzer. Three (3) PM or visible emissions test runs were performed in accordance with 40 CFR Subpart DD. Mr. Leo Muhlenkamp of ADM Grand Ledge MI facility, provided process information and operational data. Julie Brunner and David Patterson of the Michigan Department of Environmental Quality observed testing on March 18th. Julie Brunner also observed testing on the 21st.

A summary of the test results is given on the following pages in Tables 1 thru 4.

TABLE 1

**Particulate Matter Emissions Summary
Grain 15,000 cfm Dust Collector
Grand Ledge, MI**

Parameter	Run 1	Run 2	Run 3	Averages
<i>Test Date</i>	3/18/2019	3/18/2019	3/18/2019	
<i>Run Time (min.)</i>	72	72	72	
Stack Information				
% O ₂	20.90	20.90	20.90	20.90
% CO ₂	0.03	0.03	0.03	0.03
<i>Stack Temperature, Deg F</i>	42	48	47	45
<i>Stack Moisture Content</i>	0.84%	0.29%	0.11%	0.41%
Stack Gas Velocity				
<i>FPS</i>	67.43	66.52	68.72	67.56
<i>ACFM</i>	17,276	17,043	17,605	17,308
<i>DSCFM</i>	18,137	17,772	18,402	18,104
PM Emissions (Front Half)				
<i>PM, gr/dscf</i>	0.0006	0.0003	0.0006	0.0005
<i>PM, lbs/dscf</i>	8.73E-08	3.78E-08	8.89E-08	7.13E-08
<i>PM, lbs/hr</i>	0.0950	0.0403	0.0981	0.0778
PM Emissions (Total)				
<i>PM, gr/dscf</i>	0.0006	0.0003	0.0006	0.0005
<i>PM, lbs/dscf</i>	8.73E-08	3.78E-08	8.89E-08	7.13E-08
<i>PM, lbs/hr</i>	0.0950	0.0403	0.0981	0.0778

Visible Emissions

Parameter	Run 1	Run 2	Run 3	Averages
<i>Test Date</i>	03/18/2019	03/18/2019	03/18/2019	
<i>Run Time (min.)</i>	60	60	60	
VE Determination Locations				
<i>15,000 cfm Dust Collector Stack</i>	0%	0%	0%	0%

TABLE 2

Visible Emissions

Parameter	Run 1	Run 2	Run 3	Averages
<i>Test Date</i>	03/18/2019	03/19/2019	03/21/2019	
<i>Run Time (min.)</i>	60	60	60	
VE Determination Locations				
<i>50 K bph Leg</i>	0%	0%	0%	0%

Visible Emissions

Parameter	Run 1	Run 2	Run 3	Averages
<i>Test Date</i>	03/18/2019	03/19/2019	03/21/2019	
<i>Run Time (min.)</i>	60	60	60	
VE Determination Locations				
<i>50K High Roller feeding 50K Leg</i>	0%	0%	0%	0%

Visible Emissions

Parameter	Run 1	Run 2	Run 3	Averages
<i>Test Date</i>	03/18/2019	03/19/2019	03/21/20	
<i>Run Time (min.)</i>	60	60	60	
VE Determination Locations				
<i>30 K High Roller up top</i>	0%	0%	0%	0%

TABLE 3

Visible Emissions

Parameter	Run 1	Run 2	Run 3	Averages
<i>Test Date</i>	03/19/2019	03/19/2019	03/21/201	
<i>Run Time (min.)</i>	60	60	60	
VE Determination Locations				
<i>15 K bph Drag from 50 K</i>	0%	0%	0%	0%

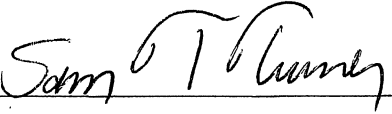
Parameter	Run 1	Run 2	Run 3	Averages
<i>Test Date</i>	03/19/2019	03/19/2019	03/21/201	
<i>Run Time (min.)</i>	60	60	60	
VE Determination Locations				
<i>Railcar pit unloading</i>	0%	0%	0%	0%

Parameter	Run 1	Run 2	Run 3	Averages
<i>Test Date</i>	03/21/2019	03/21/2019	03/21/201	
<i>Run Time (min.)</i>	60	60	60	
VE Determination Locations				
<i>40 K bph Screener</i>	0%	0%	0%	0%

Parameter	Run 1	Run 2	Run 3	Averages
<i>Test Date</i>	03/21/2019	03/21/2019	03/21/201	
<i>Run Time (min.)</i>	60	60	60	
VE Determination Locations				
<i>80K bph Bulkweigher Loadout Spout</i>	0%	0%	0%	0%

CERTIFICATION

Having written this report and having supervised the test program described herein, I certify that I am personally familiar with the emissions tests described in this report, and with the methods, measurements, data and calculations employed in the performance of those tests. To the best of my knowledge, the results reported herein are true and accurate within the limitations of the methods employed.



A handwritten signature in cursive script, reading "Sam Turner", is written over a horizontal line.

Sam Turner
Environmental Services

INTRODUCTION

The Michigan Department of Environmental Quality requires particulate and Visible Emission testing for the Railcar loading Baghouse and Conveyor's at ADM's Grain Handling System in Grand Ledge, MI.

Plant ID No. M3912

Test Summary is described on page 10. The tests performed and methodologies employed are described in pages 11 through 19 of this report. Quality assurance measures are described on pages 20 through 22. Appendices A thru F contain field data sheets, calculated values, sample calculations, and other reference data from which test results were developed.

TEST SUMMARY

Particulate Matter Emission Rates

From March 18 thru March 21, 2019, Visible Emissions and PM Emissions were measured on the Railcar baghouse and conveyor's system for three (3) 60-minute runs.

PM emissions results for the 15k CFM Dust Collector Stack ranged from 0.0003 to 0.0006 gr/dscf, averaging 0.0005 gr/dscf. PM emissions results ranged from 0.0403 to 0.0981 lbs/hr, averaging 0.0778 lbs/hr. Isokinetic ranged from 95.9% to 97.5 %, averaging 96.5 %. Sample volume ranged from 65.21 scf to 66.61 scf, averaging 65.11 scf.

Visible emissions for the 15,000 cfm Dust Collector Stack pass with no readings above 0 percent,

Visible emissions for all sources pass the allowable visible emission standard.

Emission rates for PM sampling runs were calculated using the flow and moisture determinations from each USEPA Method 5 sampling run, individual gas or particulate concentrations. PM Field data sheets are included in Appendix A, along with emission rate calculations, can be found in Appendix B. Example emission rate calculations are included in Appendix C.

TEST SERIES

In accordance with the testing requirements of the facility Test Plan per Subpart DD, PM and VE's, were measured. The following test methods were employed:

- USEPA Method 1 - Sample and Velocity Traverses for Stationary Sources
- USEPA Method 2 - Determination of Stack Gas Velocity and Flow Rate
- USEPA Method 3 - Determination of Dry Molecular Weight
- USEPA Method 4 - Determination of Moisture Content in Stack Gases
- USEPA Method 5 - Determination of Particulate Matter Emissions Subpart DD
- USEPA Method 9 - Determination of Opacity Emissions

USEPA Method 1: Sample & Velocity Traverses for Stationary Sources

The Grand Ledge dust collector baghouse exhausts through a 27.75" round Stack with 2 sample ports without nipples. Sampling ports, along with upstream and downstream measurements, are illustrated in Figure 1: Sample Ports are;

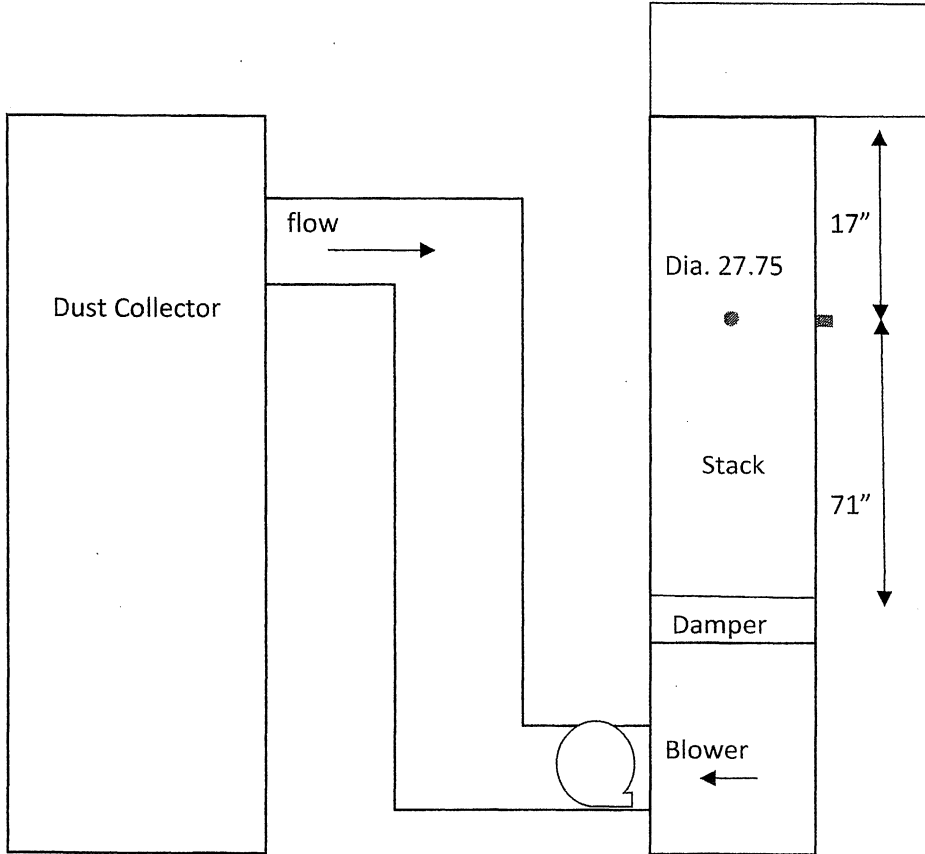
- 71" (2.54 diameters) downstream of nearest disturbance, and
- 17" (0.61 diameters) upstream of nearest disturbance.
- Diameter – 27.75 inches

USEPA Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate

Stack gas velocity measurements for the 15,000 cfm Dust Collector stack were made with a type "S" Pitot tube constructed in accordance with Method 2 specifications. Sample/velocity traverse points are shown in Table 4. Stack gas temperature was measured concurrently with VP at each traverse point using a type "K" thermocouple and readout.

FIGURE 1

Source Schematic – 15K CFM Baghouse



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TABLE 4

Location of Traverse Points

Source Name	Stack Diameter (in.)	Location of Traverse Point (inches)											
		1	2	3	4	5	6	7	8	9	10	11	12
15,000 cfm Dust collector	27.75	1.0	1.9	3.3	4.9	6.9	9.9	17.9	20.8	22.8	24.5	25.9	26.75

USEPA Method 4: Determination of Moisture Content of Stack Gas

Moisture content of stack gas is measured to allow calculation of stack gas volumetric flow rate on a dry basis. As part of the Method 5 particulate measurement test, a measured volume of stack gas is drawn through an impinger train consisting of four (4) ice-cooled impingers. Impingers 1, 3 and 4 are of the modified Greenburg-Smith design, while impinger 2 is of standard G-S design; impingers 1 and 2 are charged with 100 ml of deionized water each, impinger 4 is charged with approximately 300 grams of indicator-type silica gel, and impinger 3 is left empty. Sample gas is drawn through the ice-cooled impinger train at a rate yielding an isokinetic particulate sample. The volume of water collected in the first three impingers is quantified by weighing the final volume of water in each impinger and subtracting the initial weight of DI water placed in impingers 1 and 2. Impinger 4 is weighed prior to and following sample collection to quantify the volume of water vapor collected in the silica gel. The total volume of water vapor collected and the sample volume are used to calculate stack gas moisture content as specified in Method 4.

USEPA Method 5: Determination of Particulate Matter Emissions

Three (3) USEPA Method 5 test runs are performed, and the test results averaged, to quantify particulate emissions from the source tested. Unless otherwise specified below, all equipment preparation, sampling, sample recovery, analytical and calculation activities are conducted in accordance with CFR 40 Part 60.

Preliminary: Method 5 employs an 85mm circular glass-fiber filter meeting the specifications of Method 5 Section 3.1.1. In preparation for sampling, uniquely numbered Gelman Type A/E binder-free glass fiber filters were oven-dried at 110°C for 4 hours, and then desiccated over silica gel for six hours. Filters were then weighed at least 2 times at 6-hour (min.) intervals until constant weight (+/- 0.5 mg) was obtained; results of all weighing were recorded in a permanent log book. Filters were stored in individual sealed glass Petri dishes prior to sampling.

A series of four glass impingers was employed to condense water vapor from the filtered sample stream. The impinger train was constructed and prepared as described in USEPA Method 4. Total moisture collected in the sample train is quantified by weighing the volume of water collected in Impingers 1 through 4 to the nearest 0.1g.

USEPA Method 5: Determination of Particulate Matter Emissions (cont.)

Sampling: Preliminary velocity and temperature measurements and a low-temperature psychrometric chart are used to select a sampling nozzle as set forth in Method 5. Sampling was performed at the traverse points shown in Table 5. Each traverse point for the Dust Collector stacks were sampled for 3 minutes for a total sampling time of 72 minutes. The entire sample train was tested for leaks prior to and following each of the three sampling runs.

During run 1 impinger three froze up. The test was stopped and a leak check was done at highest vacuum before the removal of impinger. A measured amount of antifreeze [62.0 g) was added to the impinger and recorded in the tare weight for a total tare weight of 643.90 g. The impinger was replaced back in sample train. The entire sample train was leak checked once more and testing was continued. David Patterson of the Michigan Department of Environmental Quality approved the correction.

USEPA Method 5: Determination of Particulate Matter Emissions (Cont.)

Recovery: Following the post-test leak check, each sample train is removed to a clean location for disassembly and recovery. The filter holder was disassembled, and the filter (with any loose particulate) removed and replaced in its sealed Petri dish (container 3). The “front half” of the filter holder is rinsed with acetone and the wash solvent retained in a clean glass jar with a Teflon-lined cap. The sampling nozzle is cleaned with acetone and an appropriate brush, with the process repeated at least six times; the nozzle is then rinsed until no visible particulate remained. Nozzle and probe wash liquid were collected and retained in the same container used for the filter holder wash. The resulting “front half” wash container (container 1) is labeled with the unit tested, test date and run number, and contents; liquid level is marked on the outside of the jar for laboratory reference. A single 100 ml acetone blank was retained for laboratory use.

PM emissions measured by USEPA Method 5, not including back half condensable particulate are used to measure PM and PM 10 emissions. The resulting sample containers (filters, probe wash “front half”, and a single acetone blank) are retained in the Key laboratory for analysis as described in the following paragraph.

Analytical: Key laboratory staff in Decatur IL, performed all analytical procedures at their internal laboratory. Each filter container will be opened and the contents desiccated over silica gel at room temperature for at least 24 hours; constant weight is obtained as described earlier for filter tare weights. The volume of each liquid sample is recorded, and the “front half” wash liquid from each test run is evaporated at room temperature in tarred, uniquely numbered 250 ml Pyrex® beakers. After evaporation of all free liquid, each beaker is desiccated and a constant weight obtained as described above for filters.

USEPA Method 9: Visible Determination of Opacity of Emissions

Opacity emissions are observed at 15-second intervals during each test run. VEE observations are made from ground level at a location chosen to ensure an unobstructed view of the stack exit/emission point and that the sun is within the 140° arc behind the observer. The 15-second opacity measurements were reduced to a maximum 60-minute average for reporting. The field sheets for opacity observations are included in Appendix A. A copy of the VE Certification card for the observer is included in Appendix D.

QA/QC PROCEDURES

Environmental Services follows the Quality Assurance/Quality Control protocols found in “Air Monitoring Quality Assurance Vol. VI: Standard Operating Procedures for Stationary Source Emission Monitoring and Testing” (CARB, 1979) and “Maintenance, Calibration and Operation of Isokinetic Source Sampling Equipment” (Jerome J. Rom, EPA, 1972) and the quality assurance guidelines as published in “Quality Assurance Handbook for Air Pollution Measurement Systems” Vol. III (EPA-600/4-77-0276).

General QA/QC measures include pre- and post-test leak checks of all sampling trains; blank laboratory and field solutions such as acetone, distilled water or other reagents used for sampling, recovery or cleaning; nitrogen gas blanks; and documentation of all project parameters. QA/QC measures for specific test methods are described in individual method discussions.

Equipment Calibrations

All equipment is calibrated prior to use in field-testing. Specific calibration checks performed for each equipment item are specified below. Equipment calibrations for this test are found in Appendix D; example calculations are found in Appendix C.

Type “S” Pitot Tubes

An S-type pitot tube was used for preliminary and post velocity traverses. Each Pitot tube is constructed as specified in USEPA Method 2. A standard Pitot tube was used for F5 stack per Method 1A. A Pitot tube calibration can be found in Appendix D.

Thermocouples

Type “K” thermocouples were used for all temperature measurements. Thermocouples were calibrated in the past six months against an ASTM mercury/glass reference thermometer at different temperatures encountered during sampling conditions. An oven was used to calibrate at levels within 10% of the temperatures of the stack. An ice bath was used to calibrate the impinger thermocouple. All thermocouples used measure within 2% (absolute) of the reference thermometer. Thermocouple calibrations are found in Appendix D.

Equipment Calibrations (Cont.)

Dry Gas Meters/Metering Orifices

Dry gas meters (DGMs) used to measure sample volume for moisture checks were calibrated with Critical Orifice set S/N 1722, which was calibrated against a reference dry test meter, serial number (16300942) as specified in USEPA Method 5, Section 16.2.1. The Critical Orifice calibration equipment setup is pictured in Figure 3.

Prior to field use, the DGM and its metering orifice were calibrated at three DH values; Y and DH@ values are calculated as specified in paragraphs 9.2.1.1 of Method 5. Upon return to the laboratory after the field test, the meter and orifice were recalibrated in the same manner as the initial calibration. DGM calibrations are included in Appendix D.

Sampling Nozzles

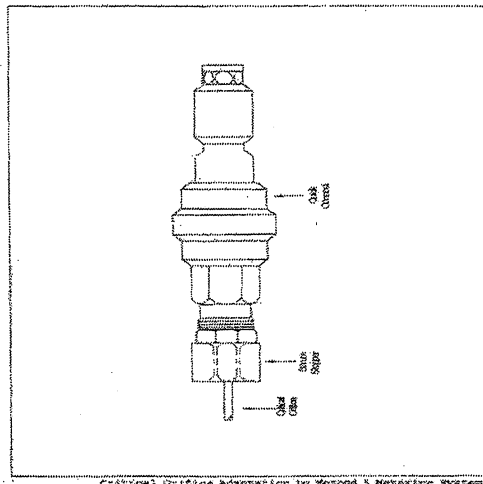
Nozzles used in particulate sampling are constructed in accordance with Section 10.1. of USEPA Method 5. Each nozzle used for sampling was calibrated prior to and immediately following each sample run. Nozzle diameter was measured at three axes; the average of the three measurements was used in all Method 5 calculations. Nozzle diameters, which vary less than 0.004" among the three measurements, are considered acceptable. Nozzle diameter calibrations are found in Appendix D.

Process Unit Operational Data

The process unit operational rates for each run are included in Appendix F.

FIGURE 2

Dry Gas Meter Calibration Schematic



Critical Orifice Apparatus Adaptation to Method 5 Monitoring System

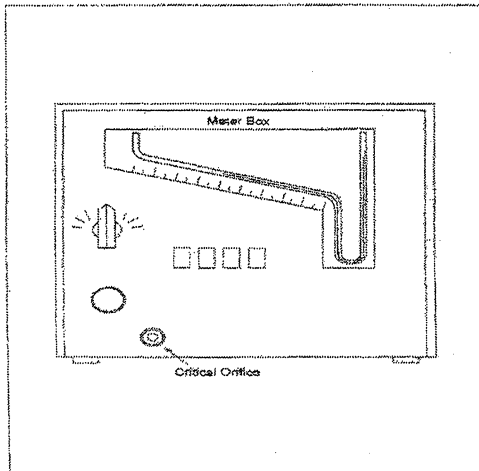


Figure 2-10. Apparatus Setup.

Appendix A
Field Data Sheets

USEPA METHOD _____ FIELD DATA 0.001 13"
 leak ck 0.003 at 9"

Location: 140m Grandhedge
 Process: Dust collector
 Unit: _____
 Pbar (in H₂O): 30.28
 Pstat. (in H₂O): 0.06
 As (sq. ft.): 4.27
 Nozzle (in.): 0.201
 Test Date: 3-18-19
 Test #: 1
 Operator: S. TAVEL
 Pitot Coeff.: .84
 Meter Yi: 1.014
 H@.75cfm: 1173
 Ref. Temp (F): _____

Pitot Line		Leak Check	
Pre-test: <input checked="" type="checkbox"/>	(Pre) cfm: <u>0.016</u>	(Post) cfm: <u>0.004</u>	
Post-test: <u>PASS</u>	vac: <u>19</u>	vac: <u>13.5</u>	
Filter #: <u>37</u>	O ₂ %: <u>20.9</u>		
Meter Box #: <u>209678</u>	CO ₂ %: <u>0.03</u>		
Probe #: <u>P-2</u>	Bws: _____		
Time (min): <u>72</u>	H ₂ O, ml: _____		

Impinger Wt./Vol.			
	Final	Init.	Diff.
1	<u>670.0</u>	<u>619.4</u>	<u>0.6</u>
2	<u>645.7</u>	<u>527.9</u>	<u>1.1</u>
3	<u>411.3</u>	<u>410.5</u>	<u>0.8</u>
4	<u>621.5</u>	<u>613.0</u>	<u>8.5</u>

55
 Limit
 643.40

Traverse Pt. #	Time	Δp Inches H ₂ O	Meter Conditions		Temperature (F)			Meter (F)		Imp Out (F)	Vac (in. Hg)	√Δp
			ΔH	Meter (cf)	Stack	Probe	Oven	In	Out			
1	9:39/9:41	2.55	4.3	669.3	35	30	29	43	42	29	9	
2	9:44	2.4	4.0	672	36	31	29	43	44	33	8.5	
3	9:47	2.2	3.45	675.2	36	32	29	46	43	36	8.0	
4	9:50	2.0	3.4	677.518	36	32	29	47	43	38	11.00	
5	10:11/10:14	1.9	3.2	675.4/680.0	38	33	31	48	46	34	7	
6	10:17	1.6	2.7	683.10	39	34	31	49	46	38	6	
7	10:20	.90	1.5	685.30	39	35	31	51	47	41	3	
8	10:23	.95	1.6	687.38	39	35	32	52	47	41	3	
9	10:26	1.1	1.8	689.40	41	36	32	55	48	45	4	
10	10:29	1.2	2.0	691.60	42	37	32	56	48	42	4	
11	10:32	1.2	2.0	694.20	41	38	32	58	49	43	6	
12	10:35	1.2	2.0	695.395	43	39	32	61	50	44	6	
10	10:53/10:56	2.3	3.6	699.60	43	38	35	57	53	37	7	
2	10:59	2.4	4.0	702.80	44	38	34	58	54	38	8	
3	11:02	2.4	4.0	704.90	43	39	35	59	54	45	8	
4	11:05	2.1	3.5	709.00	44	39	35	61	55	46	8	
5	11:08	1.7	2.8	712.00	45	39	35	63	55	46	7	
6	11:11	1.2	2.0	714.50	45	39	35	65	56	46	5	
7	11:14	.85	1.4	716.30	45	39	35	65	56	46	4	
8	11:17	.96	1.6	718.35	45	39	35	66	57	46	4	
9	11:20	1.2	2.0	720.60	45	39	35	68	58	44	4	
10	11:23	1.2	2.0	722.95	44	39	36	69	58	44	4	
11	11:26	1.2	2.0	725.30	45	39	36	70	59	45	4	
12	11:29	1.8	1.8	727.562	44	40	36	71	60	45	4	

665.607
 677.595
 meter
 677.595

60 1.1

USEPA METHOD _____ FIELD DATA

Location: AOM G-hedg Test Date: 3-15-19
 Process: Dust Collector Test #: 2
 Unit: _____ Operator: S. Turner

Pitot Line		Leak Check		Impinger Wt./Vol.		
Pre-test: <u>PASS</u>		(Pre)	(Post)			
Post-test: <u>PASS</u>		cfm: <u>0.002</u>	cfm: <u>0.00</u>	Final	Init.	Diff.
		vac: <u>12"</u>	vac: <u>9"</u>			

Pbar (in H₂O): 30.33 Pitot Coeff.: .84 Filter #: 38 O₂ %: 20.9
 Pstat. (in H₂O): 606 Meter Yi: 1.014 Meter Box #: 209678 CO₂ %: 0.03
 As (sq. ft.): 4.27 H@.75cfm: 1.73 Probe #: P-2 Bws: _____
 Nozzle (in.): 0.201 Ref. Temp (F): _____ Time (min): 72 H₂O, ml: _____

1	<u>584.7</u>	<u>590.8</u>	<u>-4.1</u>
2	<u>559.0</u>	<u>561.4</u>	<u>-3.4</u>
3	<u>410.9</u>	<u>411.0</u>	<u>-0.1</u>
4	<u>631.9</u>	<u>623.4</u>	<u>11.5</u>

Traverse Pt. #	Time	Δp Inches H ₂ O	Meter Conditions		Temperature (F)			Meter (F)		Imp Out (F)	Vac (in. Hg)	√Δp
			ΔH	Meter (cf)	Stack	Probe	Oven	In	Out			
A 1	12:44/12:49	2.55	4.4	727.69	47	41	39	60	60	39	8.5	
2	12:52	2.1	3.45	734.15	47	42	40	60	61	46	7.0	
3	12:55	2.3	3.65	737.20	47	42	40	62	61	50	7.5	
4	12:58	2.2	3.6	740.40	47	42	41	64	61	50	7.5	
5	13:01	1.8	3.0	743.10	47	42	42	67	61	53	6.5	
6	13:04	1.1	1.8	745.5	48	43	43	68	62	53	4	
7	13:07	.87	1.4	747.5	48	43	43	69	62	52	3	
8	13:10	.95	1.6	749.6	49	44	43	70	63	51	3	
9	13:13	1.0	1.7	751.65	48	44	43	72	63	50	3	
10	13:16	1.2	2.0	753.95	48	43	44	73	63	51	4	
11	13:19	1.2	2.0	756.25	48	45	43	74	64	50	4	
12	13:22	1.2	2.0	758.6	47	44	43	75	64	50	4	
B 1	13:30/13:33	2.4	3.8	761.8	47	43	42	70	65	45	8	
2	13:36	2.2	3.3	764.85	47	43	42	70	65	50	8	
3	13:39	2.1	3.3	767.90	47	43	42	70	66	51	7	
4	13:42	2.2	3.4	771.10	47	43	42	71	66	51	7	
5	13:45	1.7	3.0	773.80	48	43	42	72	66	51	6	
6	13:48	1.5	2.6	776.50	47	43	43	73	66	51	5.5	
7	13:51	.85	1.5	778.55	48	43	43	73	66	51	3	
8	13:54	.88	1.6	780.6	47	43	43	73	66	50	3	
9	13:57	.97	1.7	782.8	48	43	43	74	66	49	4	
10	14:00	1.1	1.9	785.10	48	44	43	75	66	50	4	
11	14:03	1.1	1.9	787.30	48	44	43	75	66	50	4	
12	14:06	.97	1.7	789.53	48	45	44	75	67	50	4	

USEPA METHOD _____ FIELD DATA

Location: ADM Granville, Ohio Test Date: 3-18-19
 Process: GAFFIN Test #: 3
 Unit: Dust collector Operator: STANLEY
 Pbar (in H_g): 30.30 Pitot Coeff.: .83
 Pstat. (in H₂O): 106 Meter Yi: 1.014
 As (sq. ft.): 4.27 H@.75cfm: 1.73
 Nozzle (in.): 0.201 Ref. Temp (F): _____

Pitot Line		Leak Check	
Pre-test: <u>PASS</u>	(Pre)	(Pre)	(Post)
Post-test: <u>PASS</u>	cfm: <u>0.00</u>	cfm: <u>0.00</u>	
	vac: <u>12.5</u>	vac: <u>11"</u>	

Impinger Wt./Vol.		
Final	Init.	Diff.
1 <u>590.8</u>	<u>586.7</u>	<u>-5.2</u>
2 <u>561.4</u>	<u>558.0</u>	<u>-3.2</u>
3 <u>411.3</u>	<u>410.9</u>	<u>0.4</u>
4 <u>644.7</u>	<u>634.9</u>	<u>9.5</u>

Filter #: 39 O₂ % 20.9
 Meter Box #: 2096-78 CO₂ % 0.03
 Probe #: P-2 Bws: _____
 Time (min): 72 H₂O, ml _____

Traverse Pt. #	Time	ΔP Inches H ₂ O	Meter Conditions		Temperature (F)			Meter (F)		Imp Out (F)	Vac (in. Hg)	√Δ p
			ΔH	Meter (cf)	Stack	Probe	Oven	In	Out			
1	15:24	2.6	7.6	789.643	47	45	47	60	62	44	9	
2	15:27	2.0	3.6	792.31	47	44	47	60	62	50	9	
3	15:30	2.1	3.7	796.90	47	44	46	62	61	50	8	
4	15:33	2.2	3.9	802.40	46	44	46	63	61	52	8	
5	15:36	1.9	3.4	805.80	47	44	46	65	61	52	7	
6	15:39	1.5	2.65	809.5	47	44	46	66	61	51	6	
7	15:42	.90	1.6	810.70	47	44	46	67	61	50	3	
8	15:45	.94	1.7	818.80	47	44	46	67	61	49	4	
9	15:48	1.1	1.9	815.10	48	45	46	69	62	49	4	
10	15:51	1.1	1.9	817.35	47	45	46	70	62	49	4	
11	15:54	1.3	2.6	820.10	47	45	46	71	62	50	5	
12	15:57	7.1	1.9	822.405	48	46	47	72	63	49	4	
1	16:03/1606	2.2	3.8	825.0	47	45	46	69	63	47	8	
2	16:09	2.2	3.8	828.9	47	45	46	70	64	50	8	
3	16:12	2.2	3.8	832.10	46	45	46	70	64	50	8	
4	16:15	2.1	3.7	836.3	47	45	46	71	64	50	8	
5	16:18	1.6	2.8	838.3	47	45	46	71	64	49	8	
6	16:21	7.1	1.65	840.50	47	45	46	71	64	49	4	
7	16:24	.90	1.6	842.60	47	45	46	72	65	48	4	
8	16:27	1.1	1.9	844.70	47	45	46	72	65	48	4	
9	16:30	1.3	2.3	847.20	48	47	47	73	65	48	5	
10	16:33	1.6	2.8	850.0	48	47	47	74	65	48	6	
11	16:36	1.8	3.2	852.90	48	47	48	75	65	49	7	
12	16:39	1.7	3.0	855.816	48	48	49	75	66	49	7	

Fyrite Field Sheet

ADM GRAIN
 Facility: GRAIN Ledge
 Date: 3-18-19

Unit: ISK dust collector Fuel: None
 Site: GRAIN ledge

Rick Daney

Test #: <u>1</u>		Leak Ck: <input checked="" type="checkbox"/>		Operator: <u>S. TUARVA</u>		
Sample Time	Analysis Time	Raw Readings			Calculated Conc.	
		CO2 A	O2 B	CO C	%O2 (B-A)	%CO (C-B)
10:00	10:00	0.03	20.9			
10:40	10:40	0.03	20.9			
Averages:						

Test #: <u>2</u>		Leak Ck: <input checked="" type="checkbox"/>		Operator: <u>RICK DANNEY</u>		
Sample Time	Analysis Time	Raw Readings			Calculated Conc.	
		CO2 A	O2 B	CO C	%O2 (B-A)	%CO (C-B)
12:40	12:40	0.03	20.9			
13:30	13:30	0.03	20.9			
Averages:						

Test #: <u>3</u>		Leak Ck: <input checked="" type="checkbox"/>		Operator: <u>RICK DANNEY</u>		
Sample Time	Analysis Time	Raw Readings			Calculated Conc.	
		CO2 A	O2 B	CO C	%O2 (B-A)	%CO (C-B)
16:10	16:10	0.03	20.9			
16:40	16:40	0.03	20.9			
Averages:						

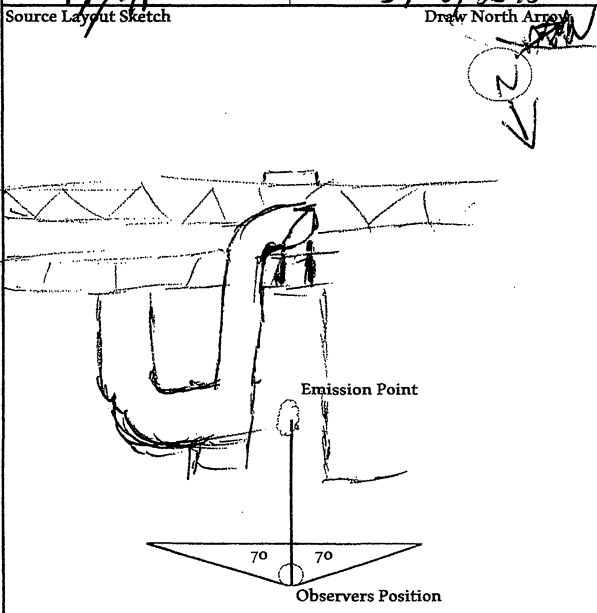
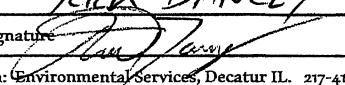
USEPA Method 9 Visible Emissions Field Data Sheets

Plant name: ADM				Observation Date 3/18/19				Start Time 0945				End Time 1125			
Address: 16994 Wright Rd				SEC.	0	15	30	45	SEC.	0	15	30	45		
City: Grand Ledge		State: MI	Zip: 48837	MIN					MIN						
Phone: 517-627-4017				1	0	0	0	0	31	0	0	0	0		
Source: 15 K cfm dust collector				2	0	0	0	0	32	0	0	0	0		
Source Number				3	0	0	0	0	33	0	0	0	0		
Process Equipment: Grain			Operating Mode	4	0	0	0	0	34	0	0	0	0		
Control Equipment: Baghouse			Operating Mode	5	0	0	0	0	35	0	0	0	0		
Describe Emission Point: Stack Outlet				6	0	0	0	0	36	0	0	0	0		
				7	0	0	0	0	37	0	0	0	0		
Height Above Ground Level		Height Relative to Observer		8	0	0	0	0	38	0	0	0	0		
Distance from Observer		Direction from Observer		9	0	0	0	0	39	0	0	0	0		
Describe Emissions		Emission Color		10	0	0	0	0	40	0	0	0	0		
Plume Type: Continuous <input checked="" type="checkbox"/> Fugitive: <input type="checkbox"/> Intermittent <input type="checkbox"/>				11	0	0	0	0	41	0	0	0	0		
Water Droplets Present		Plume: Attached <input type="checkbox"/> Detached <input type="checkbox"/>		12	0	0	0	0	42	0	0	0	0		
At What Point Was Opacity Determined				13	0	0	0	0	43	0	0	0	0		
Background				14	0	0	0	0	44	0	0	0	0		
Background Color		Percent Cloud Cover Start/End		15	0	0	0	0	45	0	0	0	0		
Wind Speed		Wind Direction From Start/End		16	0	0	0	0	46	0	0	0	0		
Temperature		Humidity		17	0	0	0	0	47	0	0	0	0		
Source Layout Sketch				18	0	0	0	0	48	0	0	0	0		
				19	0	0	0	0	49	0	0	0	0		
				20	0	0	0	0	50	0	0	0	0	0	
				21	0	0	0	0	51	0	0	0	0	0	
				22	0	0	0	0	52	0	0	0	0	0	
				23	0	0	0	0	53	0	0	0	0	0	
				24	0	0	0	0	54	0	0	0	0	0	
				25	0	0	0	0	55	0	0	0	0	0	
				26	0	0	0	0	56	0	0	0	0	0	
				27	0	0	0	0	57	0	0	0	0	0	
				28	0	0	0	0	58	0	0	0	0	0	
				29	0	0	0	0	59	0	0	0	0	0	
				30	0	0	0	0	60	0	0	0	0	0	
Highest 6 Minute Average 0								# Readings Above 0 % Were 0							
Opacity Readings Minimum 0								Maximum 0							
Comments: STOP 0954 HR				Observers Name: Rick RANCOY											
START 1009 HR				Observers Signature: <i>[Signature]</i>								Date: 3/18/19			
STOP 1030 HR				Organization: Environmental Services, Decatur IL. 217-413-6618											
START 1055 HR				Certified by: Carl Koontz Associate								Date: 9/26/18			
				Verified By:								Date:			

USEPA Method 9 Visible Emissions Field Data Sheets

Plant name: ADM			Observation Date 3/18/19				Start Time 1244		End Time 1401			
Address: 16994 Wright Rd			SEC	0	15	30	45	SEC	0	15	30	45
City: Grand Ledge		State: MI	Zip: 48837		MIN		MIN					
Phone: 517-627-4017			1	0	0	0	0	31	0	0	0	0
Source: 15 K cfm dust collector			2	0	0	0	0	32	0	0	0	0
Source Number			3	0	0	0	0	33	0	0	0	0
Process Equipment: Grain		Operating Mode	4	0	0	0	0	34	0	0	0	0
Control Equipment: Baghouse		Operating Mode	5	0	0	0	0	35	0	0	0	0
Describe Emission Point: Stack Outlet			6	0	0	0	0	36	0	0	0	0
			7	0	0	0	0	37	0	0	0	0
Height Above Ground Level 20 SE		Height Relative to Observer 15 SE	8	0	0	0	0	38	0	0	0	0
Distance from Observer 30 SE		Direction from Observer SSW	9	0	0	0	0	39	0	0	0	0
Describe Emissions GRAIN DUST		Emission Color LIGHT BROWN	10	0	0	0	0	40	0	0	0	0
Plume Type: Continuous <input checked="" type="checkbox"/> Fugitive: <input type="checkbox"/> Intermittent: <input type="checkbox"/>			11	0	0	0	0	41	0	0	0	0
Water Droplets Present NO		Plume: Attached <input type="checkbox"/> Detached <input type="checkbox"/> N/A	12	0	0	0	0	42	0	0	0	0
At What Point Was Opacity Determined 1 SE FROM STACK			13	0	0	0	0	43	0	0	0	0
Background BLUE SKY & RAILING			14	0	0	0	0	44	0	0	0	0
Background Color BLUE / YELLOW		Percent Cloud Cover start/End 0 / 50%	15	0	0	0	0	45	0	0	0	0
Wind Speed 6 MPH / 8 MPH		Wind Direction From start/End WSW / W	16	0	0	0	0	46	0	0	0	0
Temperature 39 / 41		Humidity 48% / 38%	17	0	0	0	0	47	0	0	0	0
Source Layout Sketch Draw North Arrow			18	0	0	0	0	48	0	0	0	0
			19	0	0	0	0	49	0	0	0	0
			20	0	0	0	0	50	0	0	0	0
			21	0	0	0	0	51	0	0	0	0
			22	0	0	0	0	52	0	0	0	0
			23	0	0	0	0	53	0	0	0	0
			24	0	0	0	0	54	0	0	0	0
			25	0	0	0	0	55	0	0	0	0
			26	0	0	0	0	56	0	0	0	0
			27	0	0	0	0	57	0	0	0	0
			28	0	0	0	0	58	0	0	0	0
			29	0	0	0	0	59	0	0	0	0
			30	0	0	0	0	60	0	0	0	0
			Highest 6 Minute Average 0							# Readings Above 0 % Were 0		
Opacity Readings Minimum 0							Maximum 0					
Comments: STOP 1314 START 1331			Observers Name: RICK DANCEY									
			Observers Signature: <i>[Signature]</i>						Date: 3/18/19			
			Organization: Environmental Services, Decatur IL 217-413-6618									
			Certified by: Carl Koontz Associate						Date: 9/26/18			
			Verified By:						Date:			

USEPA Method 9 Visible Emissions Field Data Sheets

Plant name: ADM				Observation Date 3/18/19				Start Time 1521		End Time 1634			
Address: 16994 Wright Rd				SEC.	0	15	30	45	SEC.	0	15	30	45
City: Grand Ledge		State: MI	Zip: 48837	MIN				MIN					
Phone: 517-627-4017				1	0	0	0	0	31	0	0	0	0
Source: 15 K cfm dust collector				2	0	0	0	0	32	0	0	0	0
Source Number				3	0	0	0	0	33	0	0	0	0
Process Equipment: Grain			Operating Mode	4	0	0	0	0	34	0	0	0	0
Control Equipment: Baghouse			Operating Mode	5	0	0	0	0	35	0	0	0	0
Describe Emission Point: Stack Outlet				6	0	0	0	0	36	0	0	0	0
				7	0	0	0	0	37	0	0	0	0
Height Above Ground Level 20.50		Height Relative to Observer 15.50		8	0	0	0	0	38	0	0	0	0
Distance from Observer 30.50		Direction from Observer SSW SW		9	0	0	0	0	39	0	0	0	0
Describe Emissions GRAIN DUST		Emission Color LIGHT BROWN		10	0	0	0	0	40	0	0	0	0
Plume Type: Continuous <input checked="" type="checkbox"/> Fugitive: <input type="checkbox"/> Intermittent <input type="checkbox"/>				11	0	0	0	0	41	0	0	0	0
Water Droplets Present NO		Plume: Attached <input type="checkbox"/> Detached <input type="checkbox"/> N/A		12	0	0	0	0	42	0	0	0	0
At What Point Was Opacity Determined 1.50 FT. FROM STACK				13	0	0	0	0	43	0	0	0	0
Background CLOUDY SKY / RAINING				14	0	0	0	0	44	0	0	0	0
Background Color GRAYISH WHITE / YELLOW		Percent Cloud Cover Start/End 90%/60%		15	0	0	0	0	45	0	0	0	0
Wind Speed 9 MPH / 8 MPH		Wind Direction From Start/ End N/W		16	0	0	0	0	46	0	0	0	0
Temperature 41/41		Humidity 39%/38%		17	0	0	0	0	47	0	0	0	0
Source Layout Sketch 				18	0	0	0	0	48	0	0	0	0
				19	0	0	0	0	49	0	0	0	0
				20	0	0	0	0	50	0	0	0	0
				21	0	0	0	0	51	0	0	0	0
				22	0	0	0	0	52	0	0	0	0
				23	0	0	0	0	53	0	0	0	0
				24	0	0	0	0	54	0	0	0	0
				25	0	0	0	0	55	0	0	0	0
				26	0	0	0	0	56	0	0	0	0
				27	0	0	0	0	57	0	0	0	0
				28	0	0	0	0	58	0	0	0	0
				29	0	0	0	0	59	0	0	0	0
				30	0	0	0	0	60	0	0	0	0
Highest 6 Minute Average 0								# Readings Above 0 % Were 0					
Opacity Readings Minimum 0								Maximum 0					
Comments: STOP 155/1725 START 1604				Observers Name: RICK DANCEY									
Observers Signature: 								Date: 3/18/19					
Organization: Environmental Services, Decatur IL. 217-413-6618								Certified by: Carl Koontz Associate					
								Date: 3/26/18					
Verified By:								Date:					

USEPA Method 9 Visible Emissions Field Data Sheets

Plant name: ADM			Observation Date 3/18/19				Start Time 1828		End Time 1928				
Address: 16994 Wright Rd			SEC ₉	0	15	30	45	SEC ₉	0	15	30	45	
City: Grand Ledge	State: MI	Zip: 48837	MIN					MIN					
Phone: 517-627-4017			1	0	0	0	0	31	0	0	0	0	
Source: 50 K bph leg			2	0	0	0	0	32	0	0	0	0	
Source Number			3	0	0	0	0	33	0	0	0	0	
Process Equipment: Grain		Operating Mode	4	0	0	0	0	34	0	0	0	0	
Control Equipment: Baghouse		Operating Mode	5	0	0	0	0	35	0	0	0	0	
Describe Emission Point: Stack Outlet AROUND CONVEYOR LEG			6	0	0	0	0	36	0	0	0	0	
Height Above Ground Level			7	0	0	0	0	37	0	0	0	0	
Height Relative to Observer			8	0	0	0	0	38	0	0	0	0	
Distance from Observer			9	0	0	0	0	39	0	0	0	0	
Direction from Observer			10	0	0	0	0	40	0	0	0	0	
Describe Emissions			11	0	0	0	0	41	0	0	0	0	
Emission Color			12	0	0	0	0	42	0	0	0	0	
Plume Type: Continuous <input type="radio"/> Fugitive: <input checked="" type="checkbox"/> Intermittent <input type="radio"/>			13	0	0	0	0	43	0	0	0	0	
Water Droplets Present		Plume: Attached <input type="radio"/> Detached <input type="radio"/>	14	0	0	0	0	44	0	0	0	0	
At What Point Was Opacity Determined			15	0	0	0	0	45	0	0	0	0	
Background			16	0	0	0	0	46	0	0	0	0	
Background Color		Percent Cloud Cover Start/End	17	0	0	0	0	47	0	0	0	0	
Wind Speed		Wind Direction From Start/End	18	0	0	0	0	48	0	0	0	0	
Temperature		Humidity	19	0	0	0	0	49	0	0	0	0	
Source Layout Sketch			20	0	0	0	0	50	0	0	0	0	
			21	0	0	0	0	51	0	0	0	0	
			22	0	0	0	0	0	52	0	0	0	0
			23	0	0	0	0	0	53	0	0	0	0
			24	0	0	0	0	0	54	0	0	0	0
			25	0	0	0	0	0	55	0	0	0	0
			26	0	0	0	0	0	56	0	0	0	0
			27	0	0	0	0	0	57	0	0	0	0
			28	0	0	0	0	0	58	0	0	0	0
			29	0	0	0	0	0	59	0	0	0	0
			30	0	0	0	0	0	60	0	0	0	0
Highest 6 Minute Average							# Readings Above 0 % Were 0						
Opacity Readings Minimum							Maximum						
Comments:			Observers Name: RICK DANCEY										
			Observers Signature: <i>[Signature]</i>							Date: 3/18/19			
			Organization: Environmental Services, Decatur IL. 217-413-6618										
			Certified by: Carl Koontz Associate							Date: 9/26/18			
			Verified By:							Date:			

[Handwritten notes and signatures in the bottom left corner]

USEPA Method 9 Visible Emissions Field Data Sheets

Plant name: ADM			Observation Date 3/19/19				Start Time 0828			End Time 0928		
Address: 16994 Wright Rd			SEC.	0	15	30	45	SEC.	0	15	30	45
City: Grand Ledge	State: MI	Zip: 48837	MIN				MIN					
Phone: 517-627-4017			1	0	0	0	0	31	0	0	0	0
Source: 50 K bph leg ^{50K BPH LEG} HT ROLLER FEEDING 50K LEG			2	0	0	0	0	32	0	0	0	0
Source Number			3	0	0	0	0	33	0	0	0	0
Process Equipment: Grain		Operating Mode	4	0	0	0	0	34	0	0	0	0
Control Equipment: Baghouse		Operating Mode	5	0	0	0	0	35	0	0	0	0
Describe Emission Point: Stack Outlet ^{AROUND CONDUIT LEG}			6	0	0	0	0	36	0	0	0	0
Height Above Ground Level			7	0	0	0	0	37	0	0	0	0
Height Relative to Observer			8	0	0	0	0	38	0	0	0	0
Distance from Observer			9	0	0	0	0	39	0	0	0	0
Direction from Observer			10	0	0	0	0	40	0	0	0	0
Describe Emissions			11	0	0	0	0	41	0	0	0	0
Emission Color			12	0	0	0	0	42	0	0	0	0
Plume Type: Continuous O Fugitive: <input checked="" type="checkbox"/> Intermittent O			13	0	0	0	0	43	0	0	0	0
Water Droplets Present			14	0	0	0	0	44	0	0	0	0
Plume: Attached O Detached O			15	0	0	0	0	45	0	0	0	0
At What Point Was Opacity Determined			16	0	0	0	0	46	0	0	0	0
Background			17	0	0	0	0	47	0	0	0	0
Background Color			18	0	0	0	0	48	0	0	0	0
Percent Cloud Cover Start/End			19	0	0	0	0	49	0	0	0	0
Wind Speed			20	0	0	0	0	50	0	0	0	0
Wind Direction/From Start/ End			21	0	0	0	0	51	0	0	0	0
Temperature			22	0	0	0	0	52	0	0	0	0
Humidity			23	0	0	0	0	53	0	0	0	0
Source Layout Sketch			24	0	0	0	0	54	0	0	0	0
Draw North Arrow			25	0	0	0	0	55	0	0	0	0
<p>Emission Point</p> <p>Observers Position</p>			26	0	0	0	0	56	0	0	0	0
			27	0	0	0	0	57	0	0	0	0
			28	0	0	0	0	58	0	0	0	0
			29	0	0	0	0	59	0	0	0	0
			30	0	0	0	0	60	0	0	0	0
			Highest 6 Minute Average			0				# Readings Above 0 % Were 0		
Opacity Readings			Minimum 0				Maximum 0					
Comments:			Observers Name: Rick Danckw									
			Observers Signature: <i>[Signature]</i>							Date: 3/19/19		
			Organization: Environmental Services, Decatur IL. 217-413-6618									
			Certified by: Carl Koontz Associate							Date: 9/26/18		
			Verified By:							Date:		

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AIR QUALITY DIVISION

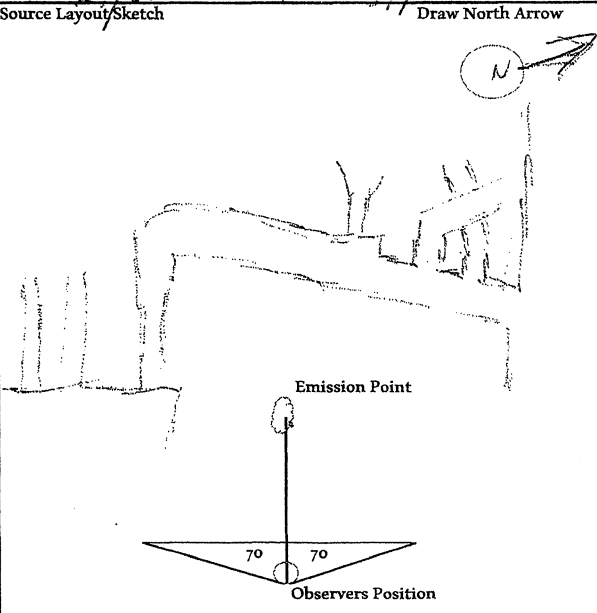
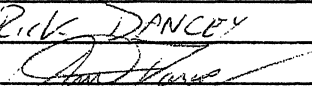
USEPA Method 9 Visible Emissions Field Data Sheets

Plant name: ADM			Observation Date 3/21/19			Start Time 0835			End Time 0943					
Address: 16994 Wright Rd			SEC.	0	15	30	45	SEC.	0	15	30	45		
City: Grand Ledge	State: MI	Zip: 48837	MIN						MIN					
Phone: 517-627-4017			1	0	0	0	0	31	0	0	0	0		
Source: 50 K bph leg			2	0	0	0	0	32	0	0	0	0		
Source Number			3	0	0	0	0	33	0	0	0	0		
Process Equipment: Grain		Operating Mode	4	0	0	0	0	34	0	0	0	0		
Control Equipment: Baghouse		Operating Mode	5	0	0	0	0	35	0	0	0	0		
Describe Emission Point: Stack Outlet			6	0	0	0	0	36	0	0	0	0		
AROUND CONVEYOR LCL			7	0	0	0	0	37	0	0	0	0		
Height Above Ground Level	Height Relative to Observer	8	0	0	0	0	38	0	0	0	0			
0-130 ft	0-130 ft	9	0	0	0	0	39	0	0	0	0			
Distance from Observer	Direction from Observer	10	0	0	0	0	40	0	0	0	0			
30-150 ft.	NNW	11	0	0	0	0	41	0	0	0	0			
Describe Emissions		Emission Color	12	0	0	0	0	42	0	0	0	0		
GRAIN DUST		LT BROWN	13	0	0	0	0	43	0	0	0	0		
Plume Type: Continuous <input type="checkbox"/> Fugitive: <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/>			14	0	0	0	0	44	0	0	0	0		
Water Droplets Present		Plume: Attached <input type="checkbox"/> Detached <input type="checkbox"/>	15	0	0	0	0	45	0	0	0	0		
NO		N/A	16	0	0	0	0	46	0	0	0	0		
At What Point Was Opacity Determined			17	0	0	0	0	47	0	0	0	0		
1-2 SE. AROUND LCL			18	0	0	0	0	48	0	0	0	0		
Background			19	0	0	0	0	49	0	0	0	0		
SKY - SKY			20	0	0	0	0	50	0	0	0	0		
Background Color		Percent Cloud Cover Start/End	21	0	0	0	0	51	0	0	0	0		
RAY LT GRAY		100% / 100	22	0	0	0	0	52	0	0	0	0		
Wind Speed	Start End	Wind Direction From Start/ End	23	0	0	0	0	53	0	0	0	0		
4/3		N/NW	24	0	0	0	0	54	0	0	0	0		
Temperature	Start End	Humidity	25	0	0	0	0	55	0	0	0	0		
35/35		95/97	26	0	0	0	0	56	0	0	0	0		
Source Layout Sketch			27	0	0	0	0	57	0	0	0	0		
Draw North Arrow			28	0	0	0	0	58	0	0	0	0		
			29	0	0	0	0	59	0	0	0	0		
			30	0	0	0	0	60	0	0	0	0	0	
			Highest 6 Minute Average			0			# Readings Above			0 % Were 0		
			Opacity Readings			Minimum 0			Maximum 0					
			Comments: 51070909			Observers Name: RICK DANCOY			Observers Signature: [Signature]			Date: 3/21/19		
			START 0717			Organization: Environmental Services, Decatur IL 217-413-6618			Certified by: Carl Koontz Associate			Date: 9/26/18		
						Verified By:			Date:					

USEPA Method 9 Visible Emissions Field Data Sheets

Plant name: ADM			Observation Date 3/18/19				Start Time 1828		End Time 1928			
Address: 16994 Wright Rd			SEC.	0	15	30	45	SEC.	0	15	30	45
City: Grand Ledge	State: MI	Zip: 48837	MIN				MIN					
Phone: 517-627-4017			1	0	0	0	0	31	0	0	0	0
Source: 50 K bph hi roller that feeds the 50 K leg			2	0	0	0	0	32	0	0	0	0
Source Number			3	0	0	0	0	33	0	0	0	0
Process Equipment: Grain		Operating Mode	4	0	0	0	0	34	0	0	0	0
Control Equipment: Baghouse		Operating Mode	5	0	0	0	0	35	0	0	0	0
Describe Emission Point: Stack Outlet AROUND CONVEYOR			6	0	0	0	0	36	0	0	0	0
Height Above Ground Level 10-20 ft.			7	0	0	0	0	37	0	0	0	0
Height Relative to Observer 10-20 ft.			8	0	0	0	0	38	0	0	0	0
Distance from Observer 30-60 ft.			9	0	0	0	0	39	0	0	0	0
Direction from Observer N			10	0	0	0	0	40	0	0	0	0
Describe Emissions OPEN DUST		Emission Color LIGHT BROWN	11	0	0	0	0	41	0	0	0	0
Plume Type: Continuous <input type="radio"/> Fugitive: <input checked="" type="checkbox"/> Intermittent <input type="radio"/>			12	0	0	0	0	42	0	0	0	0
Water Droplets Present		Plume: Attached <input type="radio"/> Detached <input type="radio"/>	13	0	0	0	0	43	0	0	0	0
At What Point Was Opacity Determined 1-2 SE AROUND CONVEYOR			14	0	0	0	0	44	0	0	0	0
Background SILO			15	0	0	0	0	45	0	0	0	0
Background Color LT GRAY		Percent Cloud Cover Start/End 50/50	16	0	0	0	0	46	0	0	0	0
Wind Speed Start/End 10/10		Wind Direction From Start/End W/W	17	0	0	0	0	47	0	0	0	0
Temperature Start/End 41/41		Humidity 38/38	18	0	0	0	0	48	0	0	0	0
Source Layout Sketch Draw North Arrow			19	0	0	0	0	49	0	0	0	0
			20	0	0	0	0	50	0	0	0	0
			21	0	0	0	0	51	0	0	0	0
			22	0	0	0	0	52	0	0	0	0
			23	0	0	0	0	53	0	0	0	0
			24	0	0	0	0	54	0	0	0	0
			25	0	0	0	0	55	0	0	0	0
			26	0	0	0	0	56	0	0	0	0
			27	0	0	0	0	57	0	0	0	0
			28	0	0	0	0	58	0	0	0	0
			29	0	0	0	0	59	0	0	0	0
			30	0	0	0	0	60	0	0	0	0
			Highest 6 Minute Average 0							# Readings Above 0 % Were 0		
Opacity Readings Minimum 0							Maximum 0					
Comments:			Observers Name: RICK DANCEY									
			Observers Signature: <i>[Signature]</i>						Date: 3/18/19			
			Organization: Environmental Services, Decatur IL 217-413-6618									
			Certified by: Carl Koontz Associate						Date: 9/26/18			
			Verified By:						Date:			

USEPA Method 9 Visible Emissions Field Data Sheets

Plant name: ADM			Observation Date 3/19/19				Start Time 0728		End Time 0728			
Address: 16994 Wright Rd			SEC	0	15	30	45	SEC	0	15	30	45
City: Grand Ledge		State: MI	Zip: 48837		MIN		MIN					
Phone: 517-627-4017			1	0	0	0	0	31	0	0	0	0
Source: 50 K bph hi roller that feeds the 50 K leg			2	0	0	0	0	32	0	0	0	0
Source Number			3	0	0	0	0	33	0	0	0	0
Process Equipment: Grain		Operating Mode	4	0	0	0	0	34	0	0	0	0
Control Equipment: Baghouse		Operating Mode	5	0	0	0	0	35	0	0	0	0
Describe Emission Point: Stack Outlet AROUND CONVEYOR			6	0	0	0	0	36	0	0	0	0
Height Above Ground Level: 10-20 ft			7	0	0	0	0	37	0	0	0	0
Height Relative to Observer: 10-20 ft			8	0	0	0	0	38	0	0	0	0
Distance from Observer: 30-60 ft			9	0	0	0	0	39	0	0	0	0
Direction from Observer: N			10	0	0	0	0	40	0	0	0	0
Describe Emissions: CORN DUST			11	0	0	0	0	41	0	0	0	0
Emission Color: LT. BROWN			12	0	0	0	0	42	0	0	0	0
Plume Type: Continuous <input type="radio"/> Fugitive <input checked="" type="radio"/> Intermittent <input type="radio"/>			13	0	0	0	0	43	0	0	0	0
Water Droplets Present: NO			14	0	0	0	0	44	0	0	0	0
Plume: Attached <input type="radio"/> Detached <input type="radio"/>			15	0	0	0	0	45	0	0	0	0
At What Point Was Opacity Determined: 1-7 SE AROUND CONVEYOR			16	0	0	0	0	46	0	0	0	0
Background: BLUE SKY SILO			17	0	0	0	0	47	0	0	0	0
Background Color: LT. GRAY BLUE			18	0	0	0	0	48	0	0	0	0
Percent Cloud Cover Start/End: 0/0			19	0	0	0	0	49	0	0	0	0
Wind Speed: 1 MPH / 4 MPH			20	0	0	0	0	50	0	0	0	0
Wind Direction: From Start/End: NE/S			21	0	0	0	0	51	0	0	0	0
Temperature: 24/31			22	0	0	0	0	52	0	0	0	0
Humidity: 39/83			23	0	0	0	0	53	0	0	0	0
Source Layout/Sketch: 			24	0	0	0	0	54	0	0	0	0
Draw North Arrow			25	0	0	0	0	55	0	0	0	0
			26	0	0	0	0	56	0	0	0	0
			27	0	0	0	0	57	0	0	0	0
			28	0	0	0	0	58	0	0	0	0
			29	0	0	0	0	59	0	0	0	0
			30	0	0	0	0	60	0	0	0	0
Highest 6 Minute Average 0							# Readings Above 0 % Were 0					
Opacity Readings Minimum 0							Maximum 0					
Comments:			Observers Name: Rick DANCEY									
			Observers Signature: 						Date: 3/19/19			
			Organization: Environmental Services, Decatur IL 217-413-6618									
			Certified by: Carl Koontz Associate						Date: 9/26/18			
			Verified By:						Date:			

USEPA Method 9 Visible Emissions Field Data Sheets

Plant name: ADM				Observation Date 3/21/19			Start Time 0835			End Time 0943							
Address: 16994 Wright Rd				SEC.	0	15	30	45	SEC.	0	15	30	45				
City: Grand Ledge		State: MI	Zip: 48837	MIN				MIN									
Phone: 517-627-4017				1	0	0	0	0	31	0	0	0	0				
Source: 50 K bph hi roller that feeds the 50 K leg				2	0	0	0	0	32	0	0	0	0				
Source Number				3	0	0	0	0	33	0	0	0	0				
Process Equipment: Grain			Operating Mode	4	0	0	0	0	34	0	0	0	0				
Control Equipment: Baghouse			Operating Mode	5	0	0	0	0	35	0	0	0	0				
Describe Emission Point: Stack Outlet AROUND CONVEYOR				6	0	0	0	0	36	0	0	0	0				
Height Above Ground Level				7	0	0	0	0	37	0	0	0	0				
Height Relative to Observer		10-20 ft		8	0	0	0	0	38	0	0	0	0				
Distance from Observer		30-60 ft		9	0	0	0	0	39	0	0	0	0				
Direction from Observer		N		10	0	0	0	0	40	0	0	0	0				
Describe Emissions			GRAIN DUST	11	0	0	0	0	41	0	0	0	0				
Emission Color			LT BROWN	12	0	0	0	0	42	0	0	0	0				
Plume Type: Continuous O Fugitive: <input checked="" type="checkbox"/> Intermittent O				13	0	0	0	0	43	0	0	0	0				
Water Droplets Present			N/A	14	0	0	0	0	44	0	0	0	0				
Plume: Attached O Detached O			N/A	15	0	0	0	0	45	0	0	0	0				
At What Point Was Opacity Determined				16	0	0	0	0	46	0	0	0	0				
1-2 SE AROUND CONVEYOR				17	0	0	0	0	47	0	0	0	0				
Background				18	0	0	0	0	48	0	0	0	0				
SILO				19	0	0	0	0	49	0	0	0	0				
Background Color		LT GRAY		20	0	0	0	0	50	0	0	0	0				
Percent Cloud Cover Start/End				21	0	0	0	0	51	0	0	0	0				
100/100		Wind Speed		22	0	0	0	0	52	0	0	0	0				
4/3		Wind Direction From Start/End		23	0	0	0	0	53	0	0	0	0				
N/N		Temperature		24	0	0	0	0	54	0	0	0	0				
35/35		Humidity		25	0	0	0	0	55	0	0	0	0				
95/97						26	0	0	0	0	56	0	0	0	0		
Source Layout Sketch						27	0	0	0	0	57	0	0	0	0		
Draw North Arrow						28	0	0	0	0	58	0	0	0	0		
Emission Point						29	0	0	0	0	59	0	0	0	0		
Observers Position						30	0	0	0	0	60	0	0	0	0		
Highest 6 Minute Average						0				# Readings Above 0 % Were 0							
Opacity Readings						Minimum 0				Maximum 0							
Comments: STOP 0909						Observers Name: RICK DANCEY				Observers Signature: [Signature]							
START 0917						Organization: Environmental Services, Decatur IL 217-413-6618				Date: 3/21/19							
Certified by: Carl Koontz Associate						Date: 9/26/18				Verified By:							
Date:						Date:				Date:							

USEPA Method 9 Visible Emissions Field Data Sheets

Plant name: ADM				Observation Date 3-18-19				Start Time 1832		End Time 1932				
Address:				SEC	0	15	30	45	SEC	0	15	30	45	
State: Zip:				MIN					MIN					
Phone:				1	0	0	0	0	31	0	0	0	0	
Source: 30 K bph high Roller up top				2	0	0	0	0	32	0	0	0	0	
Source Number				3	0	0	0	0	33	0	0	0	0	
Process Equipment: GRAIN		Operating Mode: yes		4	0	0	0	0	34	0	0	0	0	
Control Equipment: Enclosed		Operating Mode: yes		5	0	0	0	0	35	0	0	0	0	
Describe Emission Point: conveyor				6	0	0	0	0	36	0	0	0	0	
				7	0	0	0	0	37	0	0	0	0	
Height Above Ground Level: 115'		Height Relative to Observer: 0 ft		8	0	0	0	0	38	0	0	0	0	
Distance from Observer: 150'		Direction from Observer: NE		9	0	0	0	0	39	0	0	0	0	
Describe Emissions: GRAIN		Emission Color: light GRAY		10	0	0	0	0	40	0	0	0	0	
Plume Type: Continuous <input type="radio"/> Fugitive: <input checked="" type="radio"/> Intermittent <input type="radio"/>				11	0	0	0	0	41	0	0	0	0	
Water Droplets Present: NO		Plume: Attached <input type="radio"/> Detached <input type="radio"/>		12	0	0	0	0	42	0	0	0	0	
At What Point Was Opacity Determined: 1-3 ft around conveyor				13	0	0	0	0	43	0	0	0	0	
Background: SKY and conveyor/silo				14	0	0	0	0	44	0	0	0	0	
Background Color: GRAY - yellow		Percent Cloud Cover Start/End: 50 50		15	0	0	0	0	45	0	0	0	0	
Wind Speed: 0-10		Wind Direction From Start/End: W W		16	0	0	0	0	46	0	0	0	0	
Temperature: 41		Humidity: 38		17	0	0	0	0	47	0	0	0	0	
Source Layout Sketch: Draw North Arrow				18	0	0	0	0	48	0	0	0	0	
<p>The sketch shows a circular silo on the left and a long conveyor belt extending from the silo towards the right. An emission point is marked on the conveyor. A north arrow points to the right. The observer's position is marked at the bottom with 'WEST' and 'SUN' labels. A 70-degree angle is indicated between the observer's position and the conveyor.</p>				19	0	0	0	0	49	0	0	0	0	
				20	0	0	0	0	50	0	0	0	0	0
				21	0	0	0	0	51	0	0	0	0	0
				22	0	0	0	0	52	0	0	0	0	0
				23	0	0	0	0	53	0	0	0	0	0
				24	0	0	0	0	54	0	0	0	0	0
				25	0	0	0	0	55	0	0	0	0	0
				26	0	0	0	0	56	0	0	0	0	0
				27	0	0	0	0	57	0	0	0	0	0
				28	0	0	0	0	58	0	0	0	0	0
				29	0	0	0	0	59	0	0	0	0	0
				30	0	0	0	0	60	0	0	0	0	0
Highest 6 Minute Average: 0				# Readings Above: 0 % Were: 0										
Opacity Readings Minimum: 0				Maximum: 0										
Comments:				Observers Name: Sam Turner										
				Observers Signature: Sam Turner		Date: 3-18-19								
				Organization: Environmental Services, Decatur IL. 217-413-6618										
				Certified by: Carl Koontz Associate		Date: 3-15-19								
				Verified By:		Date:								

USEPA Method 9 Visible Emissions Field Data Sheets

Plant name: ADM				Observation Date 3-19-19				Start Time 8:29				End Time 9:29			
Address: 16994 Wright Rd				SEC ₁	0	15	30	45	SEC ₂	0	15	30	45		
City: Grand Ledge		State: MI	Zip: 48837	MIN				MIN							
Phone: 517-627-4017				1	0	0	0	0	31	0	0	0	0		
Source: 30 K bph high roller up top				2	0	0	0	0	32	0	0	0	0		
Source Number				3	0	0	0	0	33	0	0	0	0		
Process Equipment: Grain			Operating Mode:	4	0	0	0	0	34	0	0	0	0		
Control Equipment: Roller			Operating Mode:	5	0	0	0	0	35	0	0	0	0		
Describe Emission Point: Stack Outlet around conveyor				6	0	0	0	0	36	0	0	0	0		
Height Above Ground Level: 200' 115'				7	0	0	0	0	37	0	0	0	0		
Height Relative to Observer: 0				8	0	0	0	0	38	0	0	0	0		
Distance from Observer: 150'			Direction from Observer:	9	0	0	0	0	39	0	0	0	0		
Describe Emissions: GRAIN			Emission Color:	10	0	0	0	0	40	0	0	0	0		
Plume Type: Continuous <input type="checkbox"/> Fugitive: <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/>				11	0	0	0	0	41	0	0	0	0		
Water Droplets Present: NO			Plume: Attached <input type="checkbox"/> Detached <input type="checkbox"/>	12	0	0	0	0	42	0	0	0	0		
At What Point Was Opacity Determined: 1-2 FT around conveyor				13	0	0	0	0	43	0	0	0	0		
Background: SKY & silo / conveyor				14	0	0	0	0	44	0	0	0	0		
Background Color: GRAY BLUE			Percent Cloud Cover Start/End:	15	0	0	0	0	45	0	0	0	0		
Wind Speed: Start End: 0-5 mph			Wind Direction From Start/End:	16	0	0	0	0	46	0	0	0	0		
Temperature: Start End: 36 37			Humidity:	17	0	0	0	0	47	0	0	0	0		
Source Layout Sketch				18	0	0	0	0	48	0	0	0	0		
<p>Draw North Arrow</p> <p>West</p> <p>SKY</p> <p>south</p> <p>silos</p> <p>150' ← → 150'</p> <p>← → 75' 75'</p> <p>Emission Point</p> <p>70° 70°</p> <p>EAST Observers Position</p> <p>SUN</p>				19	0	0	0	0	49	0	0	0	0		
				20	0	0	0	0	50	0	0	0	0		
				21	0	0	0	0	51	0	0	0	0		
				22	0	0	0	0	52	0	0	0	0		
				23	0	0	0	0	53	0	0	0	0		
				24	0	0	0	0	54	0	0	0	0		
				25	0	0	0	0	55	0	0	0	0		
				26	0	0	0	0	56	0	0	0	0		
				27	0	0	0	0	57	0	0	0	0		
				28	0	0	0	0	58	0	0	0	0		
				29	0	0	0	0	59	0	0	0	0		
				30	0	0	0	0	60	0	0	0	0		
				Highest 6 Minute Average: 0								# Readings Above 0% Were 0			
Opacity Readings Minimum: 0								Maximum: 0							
Comments:				Observers Name: SAM TURNER											
				Observers Signature: Sam Turner				Date: 3-19-19							
Organization: Environmental Services, Decatur IL 217-413-6618															
Certified by: Carl Koontz Associate								Date: 3-15-19							
Verified By:								Date:							

USEPA Method 9 Visible Emissions Field Data Sheets

Plant name: ADM			Observation Date 3-21-19				Start Time 8:39		End Time 9:46			
Address: 16994 Wright Rd			SEC	0	15	30	45	SEC	0	15	30	45
City: Grand Ledge	State: MI	Zip: 48837	MIN					MIN				
Phone: 517-627-4017			1	0	0	0	0	31	0	0	0	0
Source: 30 K bph high roller up top			2	0	0	0	0	32	0	0	0	0
Source Number			3	0	0	0	0	33	0	0	0	0
Process Equipment: Grain		Operating Mode	4	0	0	0	0	34	0	0	0	0
Control Equipment: Baghouse		Operating Mode	5	0	0	0	0	35	0	0	0	0
Describe Emission Point: <u>Enclosed</u> around conveyor			6	0	0	0	0	36	0	0	0	0
Height Above Ground Level			7	0	0	0	0	37	0	0	0	0
Height Relative to Observer			8	0	0	0	0	38	0	0	0	0
Distance from Observer			9	0	0	0	0	39	0	0	0	0
Direction from Observer			9	NE - South west				39				
Describe Emissions			10	0	0	0	0	40	0	0	0	0
Emission Color			10	light GRAY				40				
Plume Type: Continuous <input type="checkbox"/> Fugitive: <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/>			11	0	0	0	0	41	0	0	0	0
Water Droplets Present			12	0	0	0	0	42	0	0	0	0
Plume: Attached <input type="checkbox"/> Detached <input checked="" type="checkbox"/>			12	N/A				42				
At What Point Was Opacity Determined			13	0	0	0	0	43	0	0	0	0
Background			14	Silos/conveyors/GROIN				44				
Background Color			15	0	0	0	0	45	0	0	0	0
Percent Cloud Cover Start/End			15	100 100				45				
Wind Speed			16	0	0	0	0	46	0	0	0	0
Start/End			16	3 mph 3 mph				46				
Wind Direction From Start/End			16	WNW N				46				
Temperature			17	0	0	0	0	47	0	0	0	0
Start/End			17	36 37				47				
Humidity			17	97%				47				
Source Layout Sketch			18	0	0	0	0	48	0	0	0	0
Draw North Arrow			18					48				
			19	0	0	0	0	49	0	0	0	0
			20	0	0	0	0	50	0	0	0	0
			21	0	0	0	0	51	0	0	0	0
			22	0	0	0	0	52	0	0	0	0
			23	0	0	0	0	53	0	0	0	0
			24	0	0	0	0	54	0	0	0	0
			25	0	0	0	0	55	0	0	0	0
			26	0	0	0	0	56	0	0	0	0
			27	0	0	0	0	57	0	0	0	0
			28	0	0	0	0	58	0	0	0	0
			29	0	0	0	0	59	0	0	0	0
			30	0	0	0	0	60	0	0	0	0
			Highest 6 Minute Average 0				# Readings Above 0 % Were 0					
			Opacity Readings Minimum 0				Maximum 0					
Comments: stop 9:11 start 9:18			Observers Name: SAM TURNER									
			Observers Signature:						Date: 3-21-19			
			Organization: Environmental Services, Decatur IL 217-413-6618									
			Certified by: Carl Koontz Associate						Date: 3-15-19			
			Verified By:						Date:			

USEPA Method 9 Visible Emissions Field Data Sheets

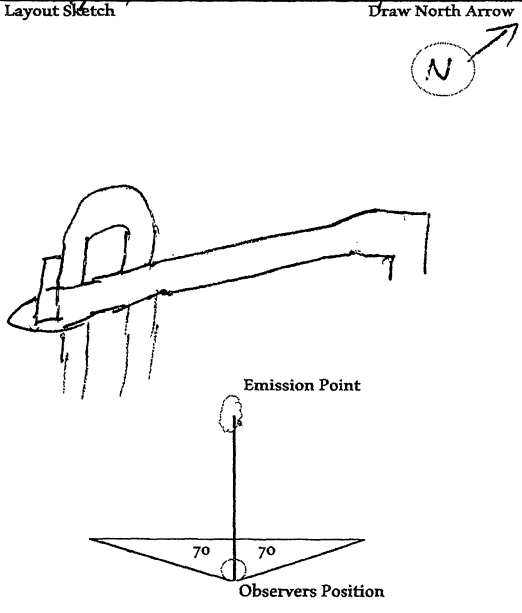
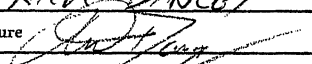
Plant name: ADM			Observation Date <u>3/19/19</u>				Start Time <u>1635</u>		End Time <u>1735</u>			
Address: 16994 Wright Rd			SEC.	0	15	30	45	SEC.	0	15	30	45
City: Grand Ledge	State: MI	Zip: 48837	MIN				MIN					
Phone: 517-627-4017			1	0	0	0	0	31	0	0	0	0
Source: 15K bph drag from 50K leg back to house			2	0	0	0	0	32	0	0	0	0
Source Number			3	0	0	0	0	33	0	0	0	0
Process Equipment: Grain		Operating Mode	4	0	0	0	0	34	0	0	0	0
Control Equipment: Baghouse		Operating Mode	5	0	0	0	0	35	0	0	0	0
Describe Emission Point: <u>Stack Outlet</u> <u>AROUND CONVOYOR</u>			6	0	0	0	0	36	0	0	0	0
Height Above Ground Level <u>130 FT</u>			7	0	0	0	0	37	0	0	0	0
Height Relative to Observer <u>5-15 FT</u>			8	0	0	0	0	38	0	0	0	0
Distance from Observer <u>5-10 FT</u>			9	0	0	0	0	39	0	0	0	0
Direction from Observer <u>NE</u>			10	0	0	0	0	40	0	0	0	0
Describe Emissions <u>GRAIN DUST</u>			11	0	0	0	0	41	0	0	0	0
Emission Color <u>LT. BROWN</u>			12	0	0	0	0	42	0	0	0	0
Plume Type: Continuous <input type="radio"/> Fugitive: <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/>			13	0	0	0	0	43	0	0	0	0
Water Droplets Present <u>NO</u>			14	0	0	0	0	44	0	0	0	0
Plume: Attached <input type="radio"/> Detached <input type="radio"/>			15	0	0	0	0	45	0	0	0	0
At What Point Was Opacity Determined <u>1-2 FT AROUND CONVOYOR</u>			16	0	0	0	0	46	0	0	0	0
Background <u>SKY & CONVOYOR LEG</u>			17	0	0	0	0	47	0	0	0	0
Background Color <u>WHITE/BLUE/GRAY</u>			18	0	0	0	0	48	0	0	0	0
Percent Cloud Cover Start/End <u>50/50</u>			19	0	0	0	0	49	0	0	0	0
Wind Speed <u>15-12/5-15</u>			20	0	0	0	0	50	0	0	0	0
Wind Direction From Start/End <u>SW/SW</u>			21	0	0	0	0	51	0	0	0	0
Temperature <u>47/47</u>			22	0	0	0	0	52	0	0	0	0
Humidity <u>42/42</u>			23	0	0	0	0	53	0	0	0	0
Source Layout Sketch			24	0	0	0	0	54	0	0	0	0
			25	0	0	0	0	55	0	0	0	0
<p>Draw North Arrow</p> <p>Emission Point</p> <p>Observers Position</p>			26	0	0	0	0	56	0	0	0	0
<p>Highest 6 Minute Average <u>0</u></p> <p># Readings Above <u>0</u> % Were <u>0</u></p>			27	0	0	0	0	57	0	0	0	0
<p>Opacity Readings Minimum <u>0</u> Maximum <u>0</u></p>			28	0	0	0	0	58	0	0	0	0
Comments:			29	0	0	0	0	59	0	0	0	0
Observers Name: <u>RICK DANCOY</u>			30	0	0	0	0	60	0	0	0	0
Observers Signature: <u>[Signature]</u>			Date: <u>3/19/19</u>									
Organization: Environmental Services, Decatur IL. 217-413-6618			Certified by: Carl Koontz Associate									
Date: <u>9/26/18</u>			Verified By:									
Date:			Date:									

USEPA Method 9 Visible Emissions Field Data Sheets

1436

Plant name: ADM			Observation Date 3/19/19				Start Time 1310		End Time 1437 (6)				
Address: 16994 WRIGHT RD.			SEC	0	15	30	45	SEC	0	15	30	45	
GRAND LEDGE		State: MI	Zip: 48837		MIN	MIN							
Phone: 517-627-4017			1	0	0	0	0	31	0	0	0	0	
Source: 15K BPH DRAG FROM SOK			2	0	0	0	0	32	0	0	0	0	
Source Number			3	0	0	0	0	33	0	0	0	0	
Process Equipment:		Operating Mode	4	0	0	0	0	34	0	0	0	0	
Control Equipment:		Operating Mode	5	0	0	0	0	35	0	0	0	0	
Describe Emission Point AROUND CONVEYOR			6	0	0	0	0	36	0	0	0	0	
Height Above Ground Level 130 ft			7	0	0	0	0	37	0	0	0	0	
Height Relative to Observer 5-15 ft.		8	0	0	0	0	0	38	0	0	0	0	
Distance from Observer 20-40 ft.		9	0	0	0	0	0	39	0	0	0	0	
Describe Emissions GRAIN DUST		Emission Color LT. BROWN	10	0	0	0	0	40	0	0	0	0	
Plume Type: Continuous <input type="radio"/> Fugitive: <input checked="" type="checkbox"/> Intermittent <input type="radio"/>			11	0	0	0	0	41	0	0	0	0	
Water Droplets Present NO		Plume: Attached <input type="radio"/> Detached <input type="radio"/>	12	0	0	0	0	42	0	0	0	0	
At What Point Was Opacity Determined 1-2 ft AROUND CONVEYOR			13	0	0	0	0	43	0	0	0	0	
Background SKY / CONVEYOR LEG			14	0	0	0	0	44	0	0	0	0	
Background Color White / Blue / GRAY		Percent Cloud Cover Start/End 5% / 70%	15	0	0	0	0	45	0	0	0	0	
Wind Speed 8 MPH / 10-15 MPH		Wind Direction From Start/End SSW / SW	16	0	0	0	0	46	0	0	0	0	
Temperature 42 / 45		Humidity 57 / 57	17	0	0	0	0	47	0	0	0	0	
Source Layout Sketch Draw North Arrow			18	0	0	0	0	48	0	0	0	0	
			19	0	0	0	0	49	0	0	0	0	
			20	0	0	0	0	0	50	0	0	0	0
			21	0	0	0	0	0	51	0	0	0	0
			22	0	0	0	0	0	52	0	0	0	0
			23	0	0	0	0	0	53	0	0	0	0
			24	0	0	0	0	0	54	0	0	0	0
			25	0	0	0	0	0	55	0	0	0	0
			26	0	0	0	0	0	56	0	0	0	0
			27	0	0	0	0	0	57	0	0	0	0
			28	0	0	0	0	0	58	0	0	0	0
			29	0	0	0	0	0	59	0	0	0	0
			30	0	0	0	0	0	60	0	0	0	0
			Highest 6 Minute Average 0							# Readings Above 0 % Were 6			
Opacity Readings Minimum 0							Maximum 0						
Comments: STOP 1313			Observers Name: Sam Turner RICK DANCEY										
START 1318, STOP 1341			Observers Signature:						Date: 3/19/19				
START 1352, STOP 1354 DRAG PROBLEM			Organization: Environmental Services, Decatur IL. 217-413-6618										
START 1359, STOP 1401, START 1408			Certified by: Carl Koontz Associate						Date: 3-23-2018 9/26/18				
			Verified By:						Date:				

USEPA Method 9 Visible Emissions Field Data Sheets

Plant name: ADM				Observation Date 3/19/19				Start Time 1532		End Time 1632			
Address: 16994 Wright Rd				SEC ₀	0	15	30	45	SEC ₀	0	15	30	45
City: Grand Ledge		State: MI	Zip: 48837	MIN				MIN					
Phone: 517-627-4017				1	0	0	0	0	31	0	0	0	0
Source: 15K bph drag from 50K leg back to house				2	0	0	0	0	32	0	0	0	0
Source Number				3	0	0	0	0	33	0	0	0	0
Process Equipment: Grain			Operating Mode	4	0	0	0	0	34	0	0	0	0
Control Equipment: Baghouse			Operating Mode	5	0	0	0	0	35	0	0	0	0
Describe Emission Point: Stack Outlet				6	0	0	0	0	36	0	0	0	0
AROUND CONVEYOR				7	0	0	0	0	37	0	0	0	0
Height Above Ground Level		Height Relative to Observer		8	0	0	0	0	38	0	0	0	0
130 SE		5-15 SE		9	0	0	0	0	39	0	0	0	0
Distance from Observer		Direction from Observer		10	0	0	0	0	40	0	0	0	0
20-40 SE		NNE		11	0	0	0	0	41	0	0	0	0
Describe Emissions		Emission Color		12	0	0	0	0	42	0	0	0	0
GRAIN DUST		LT. BROWN		13	0	0	0	0	43	0	0	0	0
Plume Type: Continuous <input type="radio"/> Fugitive <input checked="" type="checkbox"/> Intermittent <input type="radio"/>				14	0	0	0	0	44	0	0	0	0
Water Droplets Present		Plume: Attached <input type="radio"/> Detached <input type="radio"/>		15	0	0	0	0	45	0	0	0	0
NO		N/A		16	0	0	0	0	46	0	0	0	0
At What Point Was Opacity Determined				17	0	0	0	0	47	0	0	0	0
1-2 SE AROUND CONVEYOR				18	0	0	0	0	48	0	0	0	0
Background				19	0	0	0	0	49	0	0	0	0
SKY / CONVEYOR LOG				20	0	0	0	0	50	0	0	0	0
Background Color		Percent Cloud Cover Start/End		21	0	0	0	0	51	0	0	0	0
WHITE / BLUE GRAY		50% / 50%		22	0	0	0	0	52	0	0	0	0
Wind Speed		Wind Direction From Start/End		23	0	0	0	0	53	0	0	0	0
11 / 5-12		WSW / SW		24	0	0	0	0	54	0	0	0	0
Temperature		Humidity		25	0	0	0	0	55	0	0	0	0
47 / 47		42 / 42		26	0	0	0	0	56	0	0	0	0
Source Layout Sketch				27	0	0	0	0	57	0	0	0	0
Draw North Arrow				28	0	0	0	0	58	0	0	0	0
				29	0	0	0	0	59	0	0	0	0
Emission Point				30	0	0	0	0	60	0	0	0	0
Observers Position				Highest 6 Minute Average 0				# Readings Above 0 % Were 0					
Opacity Readings Minimum 0				Maximum 0				Comments:					
Observers Name: RICK DANCOY				Observers Signature: 				Date: 3/19/19					
Organization: Environmental Services, Decatur IL 217-413-6618				Certified by: Carl Koontz Associate				Date: 9/26/18					
Verified By:				Date:									

USEPA Method 9 Visible Emissions Field Data Sheets

Plant name: ADM			Observation Date 3-19-19				Start Time 13:10		End Time 14:38			
Address: 16994 Wright Rd			SEC	0	15	30	45	SEC	0	15	30	45
City: Grand Ledge		State: MI	Zip: 48837		MIN		MIN					
Phone: 517-627-4017			1	0	0	0	0	31	0	0	0	0
Source: 15 K bph pit reclaim Pit (Rail)			2	0	5	0	5	32	0	0	0	0
Source Number			3	0	0	0	0	33	0	0	0	0
Process Equipment: Grain		Operating Mode	4	0	0	0	0	34	0	0	0	0
Control Equipment: Grain Suction Fan		Operating Mode	5	0	0	0	0	35	0	0	0	0
Describe Emission Point: Stack Outlet Pit outlet			6	0	0	0	0	36	0	0	0	0
Height Above Ground Level			7	0	0	0	0	37	0	0	0	0
Height Relative to Observer		- 3 ft	8	0	0	0	0	38	0	0	0	5
Distance from Observer		30 ft	9	0	0	0	0	39	0	0	0	0
Direction from Observer		NW	10	0	0	0	0	40	0	0	0	0
Describe Emissions		GRAIN	11	0	0	0	0	41	0	0	0	0
Emission Color		light GRAY	12	0	0	0	0	42	0	0	0	0
Plume Type: Continuous <input type="radio"/> Fugitive <input checked="" type="radio"/> Intermittent <input type="radio"/>			13	0	0	0	0	43	0	0	0	0
Water Droplets Present		NO	14	0	0	0	0	44	0	0	0	0
Plume: Attached <input type="radio"/> Detached <input type="radio"/>		N/A	15	0	0	0	0	45	0	0	0	0
At What Point Was Opacity Determined			16	0	0	0	0	46	0	0	0	0
Above Pit 1-3 ft			17	0	0	0	0	47	0	0	0	0
Background			18	0	0	0	0	48	0	0	0	0
Background		Corn field / Ground-Railcar	19	0	0	0	0	49	0	0	0	0
Background Color		Blue/Brown	20	0	0	0	0	50	0	0	0	0
Percent Cloud Cover Start/End		5% / 70%	21	0	0	0	0	51	0	0	0	0
Wind Speed, Start End		8 mph 10-15 mph	22	0	0	0	0	52	0	0	0	0
Wind Direction From Start/End		SSW SW	23	0	0	0	0	53	0	0	0	0
Temperature Start End		42 45	24	0	0	0	0	54	0	0	0	0
Humidity		57%	25	0	0	0	0	55	0	0	0	0
Source Layout Sketch			26	0	0	0	0	56	0	0	0	0
<p>Draw North Arrow</p> <p>South East (Sun)</p>			27	0	0	0	0	57	0	0	0	0
<p>corn field</p> <p>Blue railcar</p> <p>← Pit</p> <p>Emission Point</p> <p>Observer Position</p> <p>70° 70°</p>			28	0	0	0	0	58	0	0	0	0
<p>Highest 6 Minute Average 10</p> <p># Readings Above 5% Were 0</p>			29	0	0	0	0	59	0	0	0	0
<p>Opacity Readings Minimum 0 Maximum 5</p>			30	0	0	0	0	60	0	0	0	0
<p>Comments: Stop 13:13</p> <p>Start 13:18 Stop 13:41</p> <p>Start 13:52 Stop 13:54 Data problem</p> <p>Start 13:59 Stop 14:02 Start 14:08</p>			<p>Observers Name:</p> <p>Observers Signature Sam Kerner Date:</p> <p>Organization: Environmental Services, Decatur IL. 217-413-6618</p> <p>Certified by: Carl Koontz Associate Date:</p> <p>Verified By: Date:</p>									

stop at 1:13

USEPA Method 9 Visible Emissions Field Data Sheets

Plant name: ADM				Observation Date 3-19-19				Start Time 15:31		End Time 16:31			
Address: 16994 Wright Rd				SEC.	0	15	30	45	SEC.	0	15	30	45
City: Grand Ledge		State: MI	Zip: 48837	MIN				MIN					
Phone: 517-627-4017				1	0	0	0	0	31	0	0	0	0
Source: 15 K bph pit reclaim Rail Pit				2	0	0	0	0	32	0	0	0	0
Source Number				3	0	0	0	0	33	0	0	0	0
Process Equipment: Grain			Operating Mode	4	0	0	0	0	34	0	0	0	0
Control Equipment: Baggouse			Operating Mode	5	0	0	0	0	35	0	0	0	0
Describe Emission Point: Stack Outlet Top of pit				6	0	0	0	0	36	0	0	0	0
Height Above Ground Level				7	0	0	0	0	37	0	0	0	0
Height Relative to Observer		- 31 ft		8	0	0	0	0	38	0	0	0	0
Distance from Observer		20		9	0	0	0	0	39	0	0	0	0
Describe Emissions		GRAIN		10	0	0	0	0	40	0	0	0	0
Emission Color		DR / light GRAY		11	0	0	0	0	41	0	0	0	0
Plume Type: Continuous O Fugitive Intermittent O				12	0	0	0	0	42	0	0	0	0
Water Droplets Present		Plume: Attached O Detached O		13	0	0	0	0	43	0	0	0	0
NO		N/A		14	0	0	0	0	44	0	0	0	0
At What Point Was Opacity Determined				15	0	0	0	0	45	0	0	0	0
1-2 ft above pit				16	0	0	0	0	46	0	0	0	0
Background				17	0	0	0	0	47	0	0	0	0
Background Color		Percent Cloud Cover Start/End		18	0	0	0	0	48	0	0	0	0
Blue - white		50% 50		19	0	0	0	0	49	0	0	0	0
Wind Speed		Wind Direction From Start/End		20	0	0	0	0	50	0	0	0	0
47 11 5-12		WSW SW		21	0	0	0	0	51	0	0	0	0
Temperature		Humidity		22	0	0	0	0	52	0	0	0	0
47 47		42		23	0	0	0	0	53	0	0	0	0
Source Layout Sketch				24	0	0	0	0	54	0	0	0	0
				25	0	0	0	0	55	0	0	0	0
<p>Draw North Arrow</p> <p>North East</p> <p>Operator House</p> <p>Pile</p> <p>Emission Point</p> <p>Observers Position</p> <p>West</p> <p>SW</p>				26	0	0	0	0	56	0	0	0	0
<p>Highest 6 Minute Average</p> <p># Readings Above 5% Were</p>				27	0	0	0	0	57	0	0	0	0
<p>Opacity Readings Minimum</p> <p>Maximum</p>				28	0	0	0	0	58	0	0	0	0
<p>Comments:</p>				29	0	0	0	0	59	0	0	0	0
<p>Observers Name: SAM TUANEK</p>				30	0	0	0	0	60	0	0	0	0
<p>Observers Signature: Sam TuaneK</p> <p>Date: 3-19-19</p>				<p>Organization: Environmental Services, Decatur IL. 217-413-6618</p>									
<p>Certified by: Carl Koontz Associate</p> <p>Date: 3-15-19</p>				<p>Verified By:</p> <p>Date:</p>									

USEPA Method 9 Visible Emissions Field Data Sheets

Plant name: ADM			Observation Date 3-19-19				Start Time 1633		End Time 1733			
Address: 16994 Wright Rd			SEC ₁	0	15	30	45	SEC ₂	0	15	30	45
City: Grand Ledge	State: MI	Zip: 48837	MIN					MIN				
Phone: 517-627-4017			1	0	0	0	0	31	0	0	0	0
Source: 15 K bph pit reclaim Rail Pit			2	0	0	0	0	32	0	0	0	0
Source Number			3	0	0	0	0	33	0	0	0	0
Process Equipment: Grain		Operating Mode	4	0	0	0	0	34	0	0	0	0
Control Equipment: Baghouse		Operating Mode	5	0	0	0	0	35	0	0	0	0
Describe Emission Point: Stack Outlet Pit outlet			6	0	0	0	0	36	0	0	0	0
Height Above Ground Level			7	0	0	0	0	37	0	0	0	0
Height Relative to Observer			8	0	0	0	0	38	0	0	0	0
Distance from Observer			9	0	0	0	0	39	0	0	0	0
Direction from Observer			10	0	0	0	0	40	0	0	0	0
Describe Emissions			11	0	0	0	0	41	0	0	0	0
Emission Color			12	0	0	0	0	42	0	0	0	0
Plume Type: Continuous <input type="radio"/> Fugitive <input checked="" type="radio"/> Intermittent <input type="radio"/>			13	0	0	0	0	43	0	0	0	0
Water Droplets Present			14	0	0	0	0	44	0	0	0	0
Plume: Attached <input type="radio"/> Detached <input type="radio"/>			15	0	0	0	0	45	0	0	0	0
At What Point Was Opacity Determined			16	0	0	0	0	46	0	0	0	0
Background			17	0	0	0	0	47	0	0	0	0
Background Color			18	0	0	0	0	48	0	0	0	0
Percent Cloud Cover Start/End			19	0	0	0	0	49	0	0	0	0
Wind Speed Start End			20	0	0	0	0	50	0	0	0	0
Wind Direction From Start/ End			21	0	0	0	0	51	0	0	0	0
Temperature Start End			22	0	0	0	0	52	0	0	0	0
Humidity			23	0	0	0	0	53	0	0	0	0
Source Layout Sketch			24	0	0	0	0	54	0	0	0	0
<p>Draw North Arrow</p> <p>Operator house</p> <p>Rail cars</p> <p>ground</p> <p>Emission Point</p> <p>Observers Position</p> <p>70°</p> <p>70°</p> <p>west</p>			25	0	0	0	0	55	0	0	0	0
			26	0	0	0	0	56	0	0	0	0
			27	0	0	0	0	57	0	0	0	0
			28	0	0	0	0	58	0	0	0	0
			29	0	0	0	0	59	0	0	0	0
			30	0	0	0	0	60	0	0	0	0
			Highest 6 Minute Average			0				# Readings Above 5 % Were		
Opacity Readings			Minimum 0				Maximum 0					
Comments:			Observers Name: SAM TURNER									
			Observers Signature: Sam Turner						Date: 3-19-19			
			Organization: Environmental Services, Decatur IL. 217-413-6618									
			Certified by: Carl Koontz Associate						Date: 3-15-19			
			Verified By:						Date:			

USEPA Method 9 Visible Emissions Field Data Sheets

Plant name: ADM			Observation Date 3/21/19				Start Time 11:29		End Time 12:09			
Address: 16994 Wright Rd			SEC	0	15	30	45	SEC	0	15	30	45
City: Grand Ledge	State: MI	Zip: 48837	MIN			MIN						
Phone: 517-627-4017			1	0	0	0	0	31	0	0	0	0
Source: 40 K bph screener			2	0	0	0	0	32	0	0	0	0
Source Number			3	0	0	0	0	33	10	5	0	0
Process Equipment: Grain		Operating Mode	4	0	0	0	5	34	0	0	0	0
Control Equipment: Baghouse		Operating Mode	5	0	0	0	0	35	5	0	0	0
Describe Emission Point: Stack Outlet			6	0	0	0	0	36	0	0	0	0
AROUND SCREEN HOUSING			7	5	0	0	0	37	0	0	0	0
Height Above Ground Level		Height Relative to Observer	8	0	0	0	5	38	0	0	0	5
100 ft		7-8 ft	9	0	0	0	0	39	0	0	0	0
Distance from Observer		Direction from Observer	10	0	0	0	0	40	0	0	0	0
3-12 ft		7/8 NNW	11	0	0	0	0	41	0	0	0	0
Describe Emissions		Emission Color	12	0	0	0	0	42	0	0	5	0
GRAIN DUST		LT BROWN	13	0	0	0	0	43	0	0	0	0
Plume Type: Continuous <input type="checkbox"/> Fugitive: <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/>		Water Droplets Present	14	0	0	0	0	44	0	0	0	0
NO		NO	15	0	0	0	0	45	0	0	0	0
Plume: Attached <input type="checkbox"/> Detached <input type="checkbox"/>		At What Point Was Opacity Determined	16	0	0	0	0	46	0	0	0	0
N/A		1-SE AROUND SCREEN HOUSING	17	0	0	0	0	47	0	0	0	0
Background		Background Color	18	0	0	0	0	48	0	0	0	0
7/8 / CONCRETE		GRAY / LT GRAY	19	0	0	0	0	49	0	0	0	0
Percent Cloud Cover Start/End		Wind Speed	20	0	0	0	0	50	0	0	0	0
100 100		12 mph	21	0	0	0	0	51	0	0	0	0
Wind Direction From Start/ End		Temperature	22	0	0	0	0	52	0	0	0	0
NW WW		39	23	0	0	0	0	53	0	0	0	0
Humidity		Source Layout Sketch	24	0	0	0	0	54	0	0	0	0
75%		Draw North arrow	25	0	0	0	0	55	0	0	0	0
			26	0	0	0	0	56	0	0	0	0
		Emission Point	27	0	0	0	0	57	0	0	0	0
		Observers Position	28	0	0	0	0	58	0	0	0	0
			29	0	0	0	0	59	0	0	0	0
			30	0	0	0	0	60	0	0	0	0
Highest 6 Minute Average 20							# Readings Above 0% Were 7					
Opacity Readings Minimum 0							Maximum 10					
Comments:			Observers Name: Rick DANCOSY									
			Observers Signature:						Date: 3/21/19			
			Organization: Environmental Services, Decatur IL 217-413-6618									
			Certified by: Carl Koontz Associate						Date: 9/26/18			
			Verified By:						Date:			

0.17

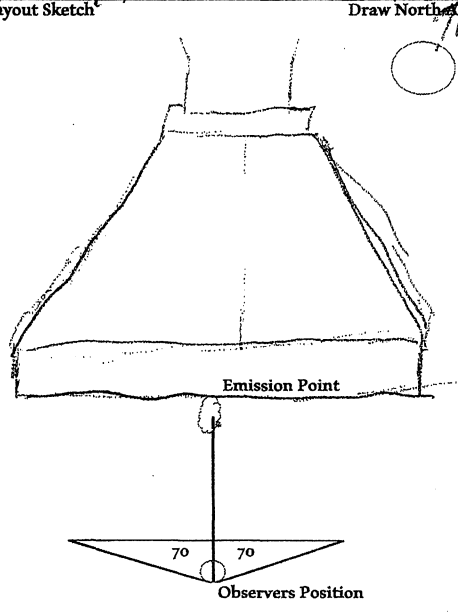
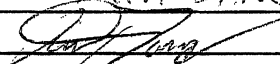
USEPA Method 9 Visible Emissions Field Data Sheets

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Plant name: ADM			Observation Date 3/21/19				Start Time 1252		End Time 1420 1421			
Address: 16994 Wright Rd			SEC	0	15	30	45	SEC	0	15	30	45
City: Grand Ledge	State: MI	Zip: 48837	MIN					MIN				
Phone: 517-627-4017			1	0	0	0	0	31	0	0	0	0
Source: 40 K bph screener			2	0	0	0	0	32	0	0	0	0
Source Number			3	0	0	0	0	33	0	0	0	0
Process Equipment: Grain		Operating Mode	4	0	0	0	0	34	0	0	0	0
Control Equipment: Baghouse		Operating Mode	5	0	0	0	0	35	0	0	0	0
Describe Emission Point: Stack Outlet AROUND SCREENER HOUSING			6	0	0	0	0	36	0	0	0	0
Height Above Ground Level			7	0	0	0	0	37	0	0	0	0
Distance from Observer			8	0	0	0	0	38	0	0	0	5
Describe Emissions			9	0	0	0	0	39	0	0	0	0
Plume Type: Continuous <input type="radio"/> Fugitive: <input checked="" type="radio"/> Intermittent <input type="radio"/>			10	0	0	0	0	40	0	5	0	0
Water Droplets Present			11	0	0	0	0	41	0	0	0	0
At What Point Was Opacity Determined			12	0	0	0	0	42	0	0	0	0
Background			13	5	5	0	0	43	0	0	0	0
Wind Speed			14	0	0	0	0	44	0	0	0	0
Temperature			15	0	0	0	0	45	0	0	0	0
Humidity			16	0	0	0	0	46	0	5	0	0
Source Layout Sketch			17	0	0	0	0	47	0	0	5	0
			18	0	0	0	0	48	0	5	0	0
			19	0	0	5	5	49	0	0	0	0
			20	0	0	0	0	50	0	0	0	0
			21	0	0	0	0	51	0	0	0	0
			22	0	0	0	0	52	0	0	0	0
			23	0	0	0	0	53	5	0	0	5
			24	0	0	0	0	54	0	0	0	0
			25	0	0	0	0	55	0	0	0	0
			26	0	0	0	5	56	0	0	0	0
			27	0	5	0	0	57	0	0	0	0
			28	0	0	0	0	58	0	0	0	0
			29	5	0	0	0	59	0	0	0	0
			30	0	0	0	0	60	0	0	0	0
Highest 6 Minute Average 15							# Readings Above 0 % Were 64					
Opacity Readings Minimum 0							Maximum 5					
Comments: STOP 1321			Observers Name: Rick DANCY									
START 1350			Observers Signature: [Signature]						Date: 3/21/19			
Organization: Environmental Services, Decatur IL 217-413-6618												
Certified by: Carl Kooztz Associate									Date: 9/26/18			
Verified By:									Date:			

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USEPA Method 9 Visible Emissions Field Data Sheets

Plant name: ADM		Observation Date 3/21/19				Start Time 1423		End Time 1523				
Address: 16994 WRIGHT RD.		SEC	0	15	30	45	SEC	0	15	30	45	
GRAND LUTHER	State: MI	Zip: 48837	MIN				MIN					
Phone: 517-627-4017		1	0	0	0	0	31	0	0	0	0	
Source: 40K BPH SCREENNETZ		2	0	0	0	0	32	0	0	0	0	
Source Number		3	0	0	0	0	33	0	0	0	0	
Process Equipment: GRAM		Operating Mode YES		4	0	0	0	0	34	0	0	0
Control Equipment: ENCLOSED		Operating Mode YES		5	0	0	0	0	35	0	0	0
Describe Emission Point AROUND SCREEN HOUSING		6	0	0	0	0	36	0	0	0	0	
Height Above Ground Level 100 SL		Height Relative to Observer = 8 FT		8	0	0	0	0	38	0	0	0
Distance from Observer 3-12 FT		Direction from Observer WNW		9	0	0	0	5	39	0	0	0
Describe Emissions GRAM DUST		Emission Color LT-BROWN		10	0	0	0	0	40	0	0	0
Plume Type: Continuous <input type="radio"/> Fugitive: <input checked="" type="radio"/> Intermittent <input type="radio"/>		11	0	0	0	0	41	0	0	0	0	
Water Droplets Present NO		Plume: Attached <input type="radio"/> Detached <input type="radio"/> N/A		12	0	0	0	0	42	0	0	0
At What Point Was Opacity Determined 156 AROUND SCREEN HOUSING		13	0	0	0	0	43	0	0	0	0	
Background SILO / CONVEYORS		14	0	0	0	0	44	0	0	0	0	
Background Color GRAY / LT GRAY		Percent Cloud Cover Start/End 100 100 %		15	0	0	0	0	45	0	0	0
Wind Speed Start/End 7		Wind Direction From Start/End WNW WNW		16	0	0	5	0	46	0	0	0
Temperature Start/End 39 41		Humidity 80 %		17	0	0	5	0	47	0	0	0
Source Layout Sketch 		Draw North Arrow		18	0	0	0	0	48	0	0	0
		19	0	0	0	0	49	0	0	0	0	
		20	0	0	0	0	50	0	0	5	0	
		21	0	0	0	0	51	0	0	0	0	
		22	0	0	0	0	52	0	0	0	0	
		23	0	0	0	0	53	0	0	0	0	
		24	0	0	0	10	54	0	0	0	0	
		25	0	0	0	0	55	0	0	0	0	
		26	0	0	0	0	56	0	0	0	0	
		27	5	5	0	0	57	0	0	5	0	
		28	0	0	0	0	58	0	0	0	0	
		29	5	0	0	0	59	0	0	0	0	
		30	0	5	0	0	60	0	0	0	0	
Highest 6 Minute Average 15							# Readings Above 0 % Were 13					
Opacity Readings Minimum 0							Maximum 10					
Comments:		Observers Name: Sam Turner RICK DANCEY										
		Observers Signature 								Date: 3/21/19		
		Organization: Environmental Services, Decatur IL. 217-413-6618										
		Certified by: Carl Koontz Associate							Date: 3-23-2017			
		Verified By:							Date: 4/26/18			

70 (0.29)

USEPA Method 9 Visible Emissions Field Data Sheets

Plant name: ADM			Observation Date 3-21-19				Start Time 11:09		End Time 12:09			
Address: 16994 Wright Rd			SEC ₁	0	15	30	45	SEC ₂	0	15	30	45
City: Grand Ledge		State: MI	Zip: 48837		MIN			MIN				
Phone: 517-627-4017			1	0	0	0	0	31	0	0	0	0
Source: 80 K bph bulk weigher (loadout spout)			2	0	0	0	0	32	0	0	0	0
Source Number			3	0	0	0	0	33	0	0	0	0
Process Equipment: Grain		Operating Mode	4	0	0	0	5	34	0	0	0	0
Control Equipment: Baghouse		Operating Mode	5	0	0	0	0	35	0	0	0	0
Describe Emission Point: Stack Outlet			6	0	0	0	5	36	0	0	0	0
outlet of spout			7	0	0	0	0	37	0	0	0	0
1-3 Ft			8	0	0	0	0	38	0	0	0	0
Height Above Ground Level		Height Relative to Observer	9	0	0	0	0	39	0	0	0	0
15'		13'	10	0	15	5	0	40	0	0	0	0
Distance from Observer		Direction from Observer	11	0	0	10	0	41	0	0	0	0
251		SW	12	0	0	0	0	42	0	0	0	0
Describe Emissions		Emission Color	13	0	0	0	5	43	0	0	0	0
GAMIN		light GRAY/BR	14	0	0	0	0	44	0	0	0	0
Plume Type: Continuous O Fugitive X Intermittent O			15	0	0	0	0	45	0	0	0	0
Water Droplets Present		Plume: Attached O Detached O	16	0	0	0	0	46	0	0	0	0
NO		N/A	17	0	0	0	0	47	0	0	0	0
At What Point Was Opacity Determined			18	0	0	0	0	48	0	0	0	0
1-3 Ft Around Spout			19	0	0	0	0	49	0	0	0	0
Background			20	0	0	0	0	50	0	0	0	0
Corn Field - Trees - Sky - spout			21	0	0	0	0	51	0	5	0	0
Background Color		Percent Cloud Cover Start/End	22	0	0	0	0	52	0	0	0	0
Brown - black - GRAY		100 100	23	0	0	0	0	53	0	0	0	0
Wind Speed		Start End	24	0	0	0	0	54	0	0	0	0
12 mph		12 mph	25	0	0	0	0	55	0	0	0	0
Temperature		Start End	26	0	0	0	0	56	0	0	0	0
39		40	27	0	0	35	0	57	0	0	5	0
Humidity		75%	28	0	0	0	0	58	0	0	0	0
Source Layout Sketch			29	0	0	0	0	59	0	0	0	0
Draw North Arrow			30	0	0	0	10	60	0	0	0	0
			Highest 6 Minute Average 45				# Readings Above 5% Were 4					
<p>IN TALLS SOUTH</p> <p>Trees</p> <p>CORN Field</p> <p>EAST</p> <p>WEST</p> <p>spout</p> <p>ANTENNA Emission Point</p> <p>70 70</p> <p>North</p> <p>Observers Position</p> <p>NO SUN</p>			Opacity Readings Minimum 0				Maximum 35					
Comments:			Observers Name: SAM TUAWER									
			Observers Signature						Date: 3-21-19			
			Organization: Environmental Services, Decatur IL. 217-413-6618									
			Certified by: Carl Koontz Associate						Date: 3-15-19			
			Verified By:						Date:			

USEPA Method 9 Visible Emissions Field Data Sheets

Plant name: ADM			Observation Date 3-21-19				Start Time 12:47		End Time 14:17			
Address: 16994 Wright Rd			SEC ₉	0	15	30	45	SEC ₉	0	15	30	45
City: Grand Ledge	State: MI	Zip: 48837	MIN				MIN					
Phone: 517-627-4017			1	0	0	0	20	31	0	0	0	0
Source: 80 K bph buliweigher (loadout spout)			2	0	0	0	0	32	0	0	0	0
Source Number			3	0	0	0	0	33	0	0	0	0
Process Equipment: Grain		Operating Mode	4	0	0	0	0	34	0	0	0	0
Control Equipment: Baghouse		Operating Mode	5	0	0	0	25	35	0	0	0	0
Describe Emission Point: Stack Outlet spout outlet			6	0	0	0	0	36	0	0	0	0
Height Above Ground Level			7	0	0	0	0	37	0	0	0	0
Distance from Observer		Direction from Observer	8	0	0	0	0	38	0	0	0	0
Describe Emissions		Emission Color	9	0	0	0	0	39	0	0	0	0
Plume Type: Continuous <input type="radio"/> Fugitive: <input checked="" type="radio"/> Intermittent <input type="radio"/>			10	0	0	0	0	40	0	0	0	0
Water Droplets Present		Plume: Attached <input type="radio"/> Detached <input type="radio"/>	11	0	0	0	0	41	0	0	0	0
At What Point Was Opacity Determined			12	0	0	10	0	42	0	0	0	0
Background			13	0	0	0	0	43	0	0	0	0
Background Color		Percent Cloud Cover Start/End	14	0	0	0	0	44	0	0	0	0
Wind Speed		Wind Direction From Start/End	15	0	10	0	0	45	0	0	0	0
Temperature		Humidity	16	0	0	0	0	46	0	0	0	0
Source Layout Sketch			17	0	0	0	0	47	0	0	0	0
<p>SKY</p> <p>Black Hose</p> <p>spout</p> <p>Black hose</p> <p>RAIL CAR</p> <p>Emission Point</p> <p>Observers Position</p>			18	0	0	0	0	48	0	0	0	0
			19	0	0	0	0	49	0	0	0	0
			20	0	0	0	0	50	0	0	0	0
			21	0	15	0	0	51	0	0	0	0
			22	0	0	0	0	52	0	0	0	0
			23	0	0	0	0	53	0	0	0	0
			24	0	0	0	0	54	0	0	0	0
			25	0	0	0	0	55	0	0	0	0
			26	0	0	0	0	56	0	0	0	0
			27	0	0	0	0	57	0	0	0	0
			28	0	0	0	0	58	0	0	0	0
			29	0	30	0	0	59	0	0	0	0
			30	0	0	0	0	60	0	0	0	0
Highest 6 Minute Average 45							# Readings Above 5 % Were 6					
Opacity Readings Minimum 0							Maximum 30					
Comments: Stop: 13:19			Observers Name: Sam Turner									
Start: 13:49			Observers Signature: Sam Turner						Date: 3-21-19			
Organization: Environmental Services, Decatur IL 217-413-6618												
Certified by: Carl Koontz Associate									Date: 3-15-19			
Verified By:									Date:			

USEPA Method 9 Visible Emissions Field Data Sheets

Plant name: ADM			Observation Date 3-21-19				Start Time 14:19		End Time 15:19			
Address: 16994 Wright Rd			SEC ₉	0	15	30	45	SEC ₉	0	15	30	45
City: Grand Ledge	State: MI	Zip: 48837	MIN					MIN				
Phone: 517-627-4017			1	0	0	0	0	31	0	0	0	0
Source: 80 K bph buliweigher (loadout spout)			2	0	0	0	0	32	0	0	0	0
Source Number			3	0	0	0	0	33	0	0	0	0
Process Equipment: Grain		Operating Mode	4	0	0	0	0	34	0	0	0	0
Control Equipment: Baghouse		Operating Mode	5	0	0	0	0	35	0	0	0	0
Describe Emission Point: Spout outlet			6	0	0	0	0	36	0	0	0	0
Height Above Ground Level 15'			7	0	0	0	0	37	0	0	0	0
Distance from Observer 75'			8	0	0	0	0	38	0	0	0	0
Describe Emissions CONTIN			9	0	0	0	0	39	0	0	0	0
Plume Type: Continuous O			10	0	0	0	0	40	0	0	0	0
Water Droplets Present NO			11	0	0	0	0	41	0	0	0	0
At What Point Was Opacity Determined 1-3 FT Around conveyor			12	0	0	0	0	42	0	0	0	0
Background SKY - spout			13	0	0	0	0	43	0	0	0	0
Background Color GRAY			14	0	0	0	0	44	0	0	0	0
Percent Cloud Cover Start/End 100			15	0	0	0	0	45	40	0	0	0
Wind Speed 7 mph			16	0	0	0	0	46	0	0	0	0
Temperature 39			17	0	0	0	0	47	0	0	0	0
Source Layout Sketch			18	0	0	0	0	48	0	0	0	0
<p>SKY West</p> <p>Black hose</p> <p>North</p> <p>South</p> <p>West</p> <p>Rail car Emission Point</p> <p>Observers Position</p> <p>70 70</p> <p>East</p>			19	0	0	25	0	49	0	0	0	0
			20	0	0	0	0	50	0	0	0	0
			21	0	0	0	0	51	0	0	0	0
			22	0	0	0	0	52	0	0	0	0
			23	0	0	0	0	53	0	0	0	0
			24	0	0	0	0	54	0	5	0	0
			25	0	0	0	0	55	0	0	0	0
			26	0	0	0	0	56	0	0	0	0
			27	0	0	0	0	57	0	0	0	0
			28	0	0	0	0	58	0	0	0	0
			29	0	0	0	0	59	0	0	0	0
			30	0	0	0	0	60	0	0	0	0
			Highest 6 Minute Average 40								# Readings Above 5 % Were 2	
Opacity Readings Minimum 0								Maximum 40				
Comments:			Observers Name: SAM TWARDZ									
			Observers Signature Sam Twardz						Date: 3-21-19			
			Organization: Environmental Services, Decatur IL. 217-413-6618									
			Certified by: Carl Koontz Associate						Date: 3-15-19			
			Verified By:						Date:			