



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

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(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

To: Interested Parties

Date: March 3, 2015

From: Matthew Stuckey, Chief
Permits Branch
Office of Air Quality

Source Name: Aramark Uniform

Permit Level: Exemption

Permit Number: 181-35374-00058

Source Location: 211 South Prairie Street Brookston, Indiana 47923

Type of Action Taken: Initial Permit

Notice of Decision: Approval

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the matter referenced above. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

The final decision is available on the IDEM website at: <http://www.in.gov/apps/idem/caats/>
To view the document, select Search option 3, then enter permit 35374.

If you would like to request a paper copy of the permit document, please contact IDEM's central file room:

Indiana Government Center North, Room 1201
100 North Senate Avenue, MC 50-07
Indianapolis, IN 46204
Phone: 1-800-451-6027 (ext. 4-0965)
Fax (317) 232-8659

(continues on next page)

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.



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Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

Tom Navarre
Family Express Corporation
213 South State Road 49
Valparaiso, IN 46383

March 3, 2015

Re: Exempt Construction and Operation Status,
E181-35374-00058

Dear Mr. Navarre:

The application from Family Express Corporation #29, received on January 21, 2015, has been reviewed. Based on the data submitted and the provisions in 326 IAC 2-1.1-3, it has been determined that the following stationary high vacuum dual phase extraction (DPE) system for the remediation of soil and groundwater located at, 211 South Prairie Street, Brookston, Indiana is classified as exempt from air pollution permit requirements:

- (a) One (1) high vacuum dual phase extraction (DPE) remediation system, identified as DPE-1, installed in 2015 for the remediation of soil and groundwater contaminated with petroleum hydrocarbons at a maximum air flow rate of 150 standard cubic feet per minute (scfm) and a maximum water flow rate of 20 gallons per minute (gpm) exhausting to stack EXHAUST-1.
- (b) Fugitive emissions from paved roads. [326 IAC 6-4]

The following conditions shall be applicable:

1. Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-1 (Opacity Limitations), except as provided in 326 IAC 5-1-2 (Applicability) and 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 of fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

2. Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line of boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

This exemption is the first air approval issued to this source.

A copy of the Exemption is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov



A State that Works

An application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source. If you have any questions on this matter, please contact Roger Osburn, OAQ, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana, 46204-2251, at 317-233-0242 or at 1-800-451-6027 (ext 3-0242).

Sincerely,



Chrystal Wagner, Section Chief
Permits Branch
Office of Air Quality

CW/ro

cc: File - White County
White County Health Department
Compliance and Enforcement Branch

**Indiana Department of Environmental Management
Office of Air Quality**

Technical Support Document (TSD) for an Exemption

Source Description and Location
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Source Name:	Family Express Corporation #29
Source Location:	211 South Prairie Street, Brookston, Indiana 47923
County:	White
SIC Code:	5541
Exemption No.:	E181-35374-00058
Permit Reviewer:	Roger Osburn

On January 21, 2015, the Office of Air Quality (OAQ) received an application from Family Express Corporation #29, related to the construction and operation of a new stationary high vacuum dual phase extraction (DPE) system for the remediation of soil and groundwater contaminated with petroleum hydrocarbons.

Existing Approvals

There have been no previous approvals issued to this source.

County Attainment Status

The source is located in White County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Unclassifiable or attainment effective July 20, 2012, for the 2008 8-hour ozone standard. ¹
PM _{2.5}	Unclassifiable or attainment effective April 5, 2005, for the annual PM _{2.5} standard.
PM _{2.5}	Unclassifiable or attainment effective December 13, 2009, for the 24-hour PM _{2.5} standard.
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Unclassifiable or attainment effective December 31, 2011.
¹ Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.	

- (a) **Ozone Standards**
Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. White County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

- (b) **PM_{2.5}**
White County has been classified as attainment for PM_{2.5}. Therefore, direct PM_{2.5}, SO₂, and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

- (c) Other Criteria Pollutants
White County has been classified as attainment or unclassifiable in Indiana for list the pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

The fugitive emissions of criteria pollutants and hazardous air pollutants, are counted toward the determination of 326 IAC 2-1.1-3 (Exemptions) applicability.

Background and Description of Emission Units and Pollution Control Equipment

The Office of Air Quality (OAQ) has reviewed an application, submitted by Family Express Corporation #29 on January 21, 2015 relating to the construction and operation of a new stationary high vacuum dual phase extraction (DPE) system for the remediation of soil and groundwater contaminated with petroleum hydrocarbons located at 211 South Prairie Street, Brookston, Indiana.

The following is a list of the new emission units:

- (a) One (1) high vacuum dual phase extraction (DPE) remediation system, identified as DPE-1, installed in 2015 for the remediation of soil and groundwater contaminated with petroleum hydrocarbons at a maximum air flow rate of 150 standard cubic feet per minute (scfm) and a maximum water flow rate of 20 gallons per minute (gpm) exhausting to stack EXHAUST-1.
- (b) Fugitive emissions from paved roads. [326 IAC 6-4]

Enforcement Issues

There are no pending enforcement actions related to this source.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – Exemption

The following table reflects the unlimited potential to emit (PTE) of the entire source before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Process/ Emission Unit	Potential To Emit of the Entire Source (tons/year)								
	PM	PM10*	PM2.5*	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Remediation system DPE-1	-	-	-	-	-	8.75	-	2.42	1.88 (Toluene)
Paved roads (mitigated fugitives)	0.39	0.08	0.02	-	-	-	-	-	-
Total PTE of Entire Source	0.39	0.08	0.02	-	-	8.75	-	2.42	1.88 (Toluene)
Exemptions Levels**	< 5	< 5	< 5	< 10	< 10	< 10	< 25	< 25	< 10
Registration Levels**	< 25	< 25	< 25	< 25	< 25	< 25	< 100	< 25	< 10
negl. = negligible *Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a regulated air pollutant".									

- (a) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of all regulated criteria pollutants are less than the levels listed in 326 IAC 2-1.1-3(e)(1). Therefore, the source is subject to the provisions of 326 IAC 2-1.1-3 (Exemptions).
- (b) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of any single HAP is less than ten (10) tons per year and the PTE of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7.

Federal Rule Applicability Determination

New Source Performance Standards (NSPS)

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) applicable to this exemption.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (b) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Equipment Leaks, 40 CFR 63.160, Subpart H, are not included in the exemption for the extraction system pumps, connectors, sampling system, and control device. The extraction system will operate in hazardous air pollutant service more than 300 hours per year; however, the source is not subject to the provisions of a specific subpart in 40 CFR, part 63 that references this subpart. Therefore, 40 CFR 63.160, Subpart H does not apply.
- (c) The requirements of the National Emission Standards for Hazardous Air Pollutants: Site Remediation, 40 CFR 63, Subpart GGGGG (326 IAC 20-87), are not included in the exemption since the remediation system is not co-located with any other stationary sources that emit hazardous air pollutants (HAPs) and meet an affected source definition specified for a source category that is regulated by another subpart under 40 CFR Part 63, and it is not a major source of HAPs.
- (d) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) applicable to this Exemption.

Compliance Assurance Monitoring (CAM)

- (e) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not applicable because the unlimited potential to emit of the source is less than the Title V major source thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

State Rule Applicability Determination

326 IAC 2-1.1-3 (Exemptions)

Exemption applicability is discussed under the Permit Level Determination – Exemption section above.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

The potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-4.1.

326 IAC 2-6 (Emission Reporting)

Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this exemption:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 6-4 (Fugitive Dust Emissions Limitations)

The source is subject to the requirements of 326 IAC 6-4, because the the paved roads have the potential to emit fugitive particulate emissions. Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4.

326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)

The source is not subject to the requirements of 326 IAC 6-5, because the source does not have potential fugitive particulate emissions greater than 25 tons per year. Therefore, 326 IAC 6-5 does not apply.

326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)

The remediation system DPE-1 is not subject to the requirements of 326 IAC 8-1-6, since the unlimited potential VOC emissions are less than twenty-five (25) tons per year.

326 IAC 12 (New Source Performance Standards)

See Federal Rule Applicability Section of this TSD.

326 IAC 20 (Hazardous Air Pollutants)
See Federal Rule Applicability Section of this TSD.

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on January 21, 2015.

The construction and operation of this source shall be subject to the conditions of the attached proposed Exemption No.: E181-35374-00058. The staff recommends to the Commissioner that this Exemption be approved.

IDEM Contact

- (a) Questions regarding this proposed exemption can be directed to Roger Osburn at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 233-0242 or toll free at 1-800-451-6027 extension 3-0242.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Permit Guide on the Internet at: <http://www.in.gov/idem/5881.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

**Appendix A: Emission Calculations
Summary of Potential to Emit**

Company Name: Family Express Corporation #29
Address City IN Zip: 211 South Prairie Street, Brookston, Indiana 47923
Exemption No.: E181-35374-00058
Reviewer: Roger Osburn
Date: January 21, 2015

Emission Units	Unlimited Potential To Emit (tons/year)								
	PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	VOC	CO	Total HAP	Single Worst HAP
Remediation system DPE ⁽¹⁾	-	-	-	-	-	8.75	-	2.42	1.88 (Toluene)
Fugitive dust ⁽²⁾	0.39	0.08	0.02	-	-	-	-	-	-
TOTAL	0.39	0.08	0.02	-	-	8.75	-	<25	<10 (Toluene)

⁽¹⁾ worst case VOC emissions using extraction well DPE-1 data.

⁽²⁾ mitigated PTE

"-" denotes designated pollutant not emitted by the emission unit

**Appendix A: Emission Calculations
VOC/HAP Emissions from AS/SVE-1**

Company Name: Family Express Corporation #29
Address City IN Zip: 211 South Prairie Street, Brookston, Indiana 47923
Exemption No.: E181-35374-00058
Reviewer: Roger Osburn
Date: January 21, 2015

PTE for AS/SVE-1 remediation system:*

Air Flow = 150 cfm

c=constant at standard condition at 68 F, 29.2 inches of Hg = 385,260,000 ppmv cu ft / lb-mole

Contaminant	VOC/HAP Concentration (ppmv)**	Molecular Weight (lb/lb-mol)	VOC/HAP Emission Rate (lbs/hour)	VOC Emission Rate (tons/year)	HAP Emission Rate (tons/year)
4-Ethyltoluene	20.0	120.192	0.0562	0.2460	
4-Methyl-2-pentanone	100	100.159	0.2340	1.0248	
1,1,1-Trichloroethane	20.0	133.404	0.0623	0.2730	
1,1,2,2-Tetrachloroethane	0.010	167.849	0.0000	0.0002	
1,1,2-Trichloroethane	0.008	133.404	0.0000	0.0001	0.0001
1,1-Dichloroethane	0.200	98.949	0.0005	0.0020	
1,1-Dichloroethene	10.0	96.943	0.0226	0.0992	
1,1-Dichloropropene	2.00	110.97	0.0052	0.0227	
1,2,4-Trichlorobenzene	0.020	181.45	0.0001	0.0004	0.0004
1,2,4-Trimethylbenzene	0.076	120.192	0.0002	0.0009	
1,2-Dibromoethane	0.0008	187.861	0.0000	0.00002	
1,2-Dichlorobenzene	2.00	147.002	0.0069	0.0301	
1,2-Dichloroethane	0.020	98.949	0.0000	0.0002	
1,2-Dichloropropane	0.020	112.986	0.0001	0.0002	
1,2,5-Trimethylbenzene	0.200	120.192	0.0006	0.0025	
1,3-Butadiene	0.020	54.091	0.0000	0.0001	0.0001
1,3-Dichlorobenzene	2.000	147.002	0.0069	0.0301	
1,4-Dichlorobenzene	0.020	147.002	0.0001	0.0003	0.0003
1,4-Dioxane	0	88.105	0.0000	0.0000	0.0000
2-Butanone	200	72.106	0.3369	1.4756	
2-Hexanone	1.00	100.159	0.0023	0.0102	
Acetone	200.00	58.079	0.2714	1.1885	
Benzene	1.4	78.112	0.0025	0.0109	0.0109
Benzyl Chloride	0.016	126.583	0.0000	0.0002	0.0002
Bromodichloromethane	0.016	163.829	0.0001	0.0003	
Bromoform	0.200	252.731	0.0012	0.0052	0.0052
Bromomethane	0.200	94.939	0.0004	0.0019	
Carbon Disulfide	20.0	76.141	0.0356	0.1558	0.1558
Carbon Tetrachloride	0.020	153.823	0.0001	0.0003	0.0003
Chlorobenzene	1.0	112.557	0.0026	0.0115	0.0115
Chloroethane	1.0	64.514	0.0015	0.0066	
Chloroform	0.034	119.378	0.0001	0.0004	0.0004
Chloromethane	2.0	50.445	0.0024	0.0103	
cis-1,2-Dichloroethene	1.0	96.943	0.0023	0.0099	
cis-1,3-Dichloropropene	0.20	110.97	0.0005	0.0023	
Cyclohexane	4.6	84.160	0.0091	0.0397	
Dibromochloromethane	0.020	208.280	0.0001	0.0004	
Dichlorodifluoromethane	2.000	120.914	0.0056	0.0247	
Ethylacetate	100.0	88.105	0.2058	0.9015	

continued next page

Sub Total VOC = 5.589
 Sub Total HAP = 0.19

Appendix A: Emissions Calculations
HAP Emissions from AS/SVE-1

Company Name: Family Express Corporation #29
Address City IN Zip: 211 South Prairie Street, Brookston, Indiana 47923
Exemption No.: E181-35374-00058
Reviewer: Roger Osburn
Date: January 21, 2015

PTE for AS/SVE-1 remediation system* (continued):

Air Flow = 150 cfm

c=constant at standard condition at 68 F, 29.2 inches of Hg = 385,260,000 ppmv cu ft / lb-mole

Contaminant	VOC/HAP Concentration (ppmv)**	Molecular Weight (lb/lb-mol)	VOC/HAP Emission Rate (lbs/hour)	VOC Emission Rate (tons/year)	HAP Emission Rate (tons/year)
Ethylbenzene	0.16	106.165	0.0004	0.0017	0.0017
Hexachloro-1,3-butadiene	0.020	260.760	0.0001	0.0005	0.0005
isooctane	12.0	114.229	0.0320	0.1403	
m,p-Xylene	0.4	106.165	0.0011	0.0048	0.0048
Methylene Chloride	2.4	84.933	0.0048	0.0209	0.0209
Methyl-t-butyl ether	2.0	88.148	0.0041	0.0180	0.0180
n-Heptane	7.8	100.202	0.0184	0.0804	
n-Hexane	18.4	86.175	0.0370	0.1622	
o-Xylene	0.1	106.165	0.0002	0.0007	0.0007
Propylene	20.0	42.080	0.0197	0.0861	
Tetrachloroethylene	0.09	165.833	0.0004	0.0016	0.0016
Tetrahydrofuran	20.0	72.106	0.0337	0.1476	
Styrene	20.0	104.149	0.0487	0.2131	0.2131
Toluene	200.0	92.138	0.4305	1.8855	1.8855
trans-1,2-Dichloroethylene	2.0	96.943	0.0045	0.0198	
trans-1,3-Dichloropropylene	0.2	110.97	0.0005	0.0023	
Trichloroethylene	0.040	131.388	0.0001	0.0005	
Trichlorofluoromethane	20.000	137.368	0.0642	0.2811	
Vinyl Acetate	10.0	86.089	0.0201	0.0881	0.0881
Vinyl Bromide	0.02	106.949	0.0000	0.0002	0.0002
Vinyl Chloride	0.10	62.949	0.0001	0.0006	0.0006

Total VOC = 8.745

Total HAP = 2.42

Highest Single HAP = 1.89 Toluene

* The VOC/HAP emissions are from the worst case extraction well (SVE-1) within the project radius of influence. The VOC/HAP concentrations were determined by EPA Method TO-15.

** VOC/HAP concentration as parts per million by volume

Methodology

VOC/HAP Emission Rate (lbs/hr) = VOC/HAP Concentration (ppmv) * VOC/HAP Molecular Weight (lb/lb-mol) * Air Flow (cu ft/min)

*60 min/hr * 1/Constant (ppmv cub ft/lb-mol)

VOC/HAP Emission Rate (tons/yr) = HAP Emission Rate (lbs/hr) * 8760 hr/yr * 1 ton/2000 lbs

**Appendix A: Emission Calculations
Fugitive Dust Emissions - Paved Roads**

Company Name: Family Express Corporation #29
Address City IN Zip: 211 South Prairie Street, Brookston, Indiana 47923
Exemption No.: E181-35374-00058
Reviewer: Roger Osburn
Date: January 21, 2015

Paved Roads at Industrial Site

The following calculations determine the amount of emissions created by paved roads, based on 8,760 hours of use and AP-42, Ch 13.2.1 (1/2011).

Vehicle Information (provided by source)

Type	Maximum number of vehicles	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Vehicle (entering plant) (one-way trip)	1000	1.0	1000.0	5.0	5000.0	175	0.033	33.1	12097.5
Vehicle (leaving plant) (one-way trip)	1000	1.0	1000.0	5.0	5000.0	175	0.033	33.1	12097.5
Total			2000.0		10000.0			66.3	24195.1

Average Vehicle Weight Per Trip = $\frac{5.0}{1.0}$ tons/trip
 Average Miles Per Trip = $\frac{0.033}{1.0}$ miles/trip

Unmitigated Emission Factor, $E_f = k * (sL)^{0.91} * (W)^{1.02}$ (Equation 1 from AP-42 13.2.1)

	PM	PM10	PM2.5	
where k =	0.011	0.0022	0.00054	lb/mi = particle size multiplier (AP-42 Table 13.2.1-1)
W =	5.0	5.0	5.0	tons = average vehicle weight (provided by source)
sL =	0.6	0.6	0.6	g/m ² = Ubiquitous Baseline Silt Loading Values of paved roads (Table 13.2.1-3 for summer months)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, $E_{ext} = E_f * [1 - (p/4N)]$

Mitigated Emission Factor, $E_{ext} = \frac{E_f * [1 - (p/4N)]}{N}$
 where p = $\frac{125}{365}$ days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)
 N = 365 days per year

	PM	PM10	PM2.5	
Unmitigated Emission Factor, $E_f =$	0.036	0.007	0.002	lb/mile
Mitigated Emission Factor, $E_{ext} =$	0.033	0.007	0.002	lb/mile
Dust Control Efficiency =	50%	50%	50%	(pursuant to control measures outlined in fugitive dust control plan)

Process	Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Unmitigated PTE of PM2.5 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM2.5 (tons/yr)	Controlled PTE of PM (tons/yr)	Controlled PTE of PM10 (tons/yr)	Controlled PTE of PM2.5 (tons/yr)
Vehicle (entering plant) (one-way trip)	0.22	0.04	0.01	0.20	0.04	0.01	0.10	0.02	0.00
Vehicle (leaving plant) (one-way trip)	0.22	0.04	0.01	0.20	0.04	0.01	0.10	0.02	0.00
Total	0.43	0.09	0.02	0.39	0.08	0.02	0.20	0.04	0.01

Methodology

Total Weight driven per day (ton/day) = [Maximum Weight Loaded (tons/trip)] * [Maximum trips per day (trip/day)]
 Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip)] / [5280 ft/mile]
 Maximum one-way miles (miles/day) = [Maximum trips per year (trip/day)] * [Maximum one-way distance (mi/trip)]
 Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per day (ton/day)] / SUM[Maximum trips per day (trip/day)]
 Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/day)] / SUM[Maximum trips per year (trip/day)]
 Unmitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] * [Unmitigated Emission Factor (lb/mile)] * (ton/2000 lbs)
 Mitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] * [Mitigated Emission Factor (lb/mile)] * (ton/2000 lbs)
 Controlled PTE (tons/yr) = [Mitigated PTE (tons/yr)] * [1 - Dust Control Efficiency]

Abbreviations

PM = Particulate Matter
 PM10 = Particulate Matter (<10 um)
 PM2.5 = Particulate Matter (<2.5 um)
 PTE = Potential to Emit



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Tom Navarre
Family Express Corporation
213 South State Road 49
Valparaiso, Indiana 46383

DATE: March 3, 2015

FROM: Matt Stuckey, Branch Chief
Permits Branch
Office of Air Quality

SUBJECT: Final Decision
Exemption
181-35374-00058

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
Erek Simon / Creek Run LLC Environmental Engineering
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at jbrush@idem.IN.gov.

Final Applicant Cover letter.dot 6/13/2013

Mail Code 61-53

IDEM Staff	AWELLS 03/03/2015 Family Express Corporation #29 181-35374-00058 Final		Type of Mail: CERTIFICATE OF MAILING ONLY	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Tom Navarre Family Express Corporation #29 213 S SR 49 Valparaiso IN 46383 (Source CAATS) VIA CERTIFEID MAIL USPS										
2		Mr. Harry D. DuVall P.O. Box 147 Idaville IN 47950 (Affected Party)										
3		White County Commissioners P.O. Box 260 Monticello IN 47960-0260 (Local Official)										
4		Ms. Magje Read P.O. Box 248 Battle Ground IN 47920 (Affected Party)										
5		Brookston Town Council P.O. Box 238 Brookston IN 47923 (Local Official)										
6		White County Health Department 315 N Illinois St Monticello IN 47960 (Health Department)										
7		Erek Simon Creek Run, LLC Environmental Engineering PO Box 114 Montpelier IN 47359 (Consultant)										
8		Top Notch Bar, Inc. 113 3rd Street Brookston IN 47923 (Affected Party)										
9		Two Cookin Sisters Specialty Food Co. & Shop 210 S Prairie Street Brookston IN 47923 (Affected Party)										
10		Garrot-Keller Insurance Agency, Inc. 301 S. Prairie Street Brookston IN 47923 (Affected Party)										
11		Ralph Frost 305 S Prairie Street Brookston IN 47923 (Affected Party)										
12		Steel magnolias Haircare 303 S Prairie Street Brookston IN 47923 (Affected Party)										
13		Alfred Bunch 300 S Ripley Street Brookston IN 47923 (Affected Party)										
14		Debra Clawson PO Box 151 Chalmers IN 47929 (Affected Party)										
15		Roger Victor 207 S Prairie Street Brookston IN 47923 (Affected Party)										

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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1		Candys Sweet Shop 118 W 3rd Street Brookston IN 47923 (Affected Party)										
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
1			