AES-01
AIR EMISSION STATEMENT CERTIFICATION
State Form 52052 (3-05)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM

IDEM - Office of Air Quality
Technical Support and Modeling Section - Mail Code 61-51
100 N. Senate Avenue
Indianapolis, IN 46204-2251
Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
http://www.emissions.IN.gov/

Instructions:

- *This is a required form for each air emission statement as well as any modifications.*
- *The certification supplied with a source's permit may be used in lieu of this form*
- *"Responsible Official" has the same meaning as defined in 326 IAC 2-7-1 (34), and is usually designated in the General Information section of the permit.*

Part A: Contact Information

Part A is intended to provide basic information about the company submitting an Air Emission Statement and information on the Air Emission Statement preparer in case there is a question about the report.

1. Company Name: MGPI of Indiana, LLC		**2.** Source ID: 029-00005
3. Mailing Address: 7 Ridge Avenue		
City: Lawrenceburg	State: IN	ZIP Code: 47025-
4. Name of Emission Statement Preparer: William R. Graves		
5. Title of Emission Statement Preparer: (*optional*): EHS Manager		
6. Telephone Number: (812) 532-4158	**7.** Facsimile Number *(optional)*: (812) 532-4216	
8. Electronic Mail Address *(optional)*: randy.graves@mgpingredients.com		

Part B: Emissions Summary

Part B is intended to aid in the review of data and to collect information about billable hazardous air pollutants

Emissions Statement Pollutants (Plant Wide)	**Tons Emitted**
Carbon Monoxide (CO)	71.52
Lead (PB)	0.0000
Nitrogen Dioxide (NO2)	42.60
Particulate Matter <10 Microns (PM10)	43.83
Sulfur Dioxide (SO2)	0.51
Volatile Organic Compounds (VOC)	1,175.79

Part 70 Permit Billable Hazardous Air Pollutants (Plant Wide)	**Tons Emitted**
Tetrachloroethylene (Perc) (CAS#127184)	
Chlorine (CAS# 7782505)	
Hydrochloric Acid (CAS# 7647010)	0.0000
Hydrofluoric Acid (CAS# 7664393)	0.0000
Methyl Chloroform or 1,1,1-Trichloroethane (CAS# 71556)	
Methylene Chloride or Dichloromethane (CAS# 75092)	
Phosphine (CAS# 7803512)	
Mercury and Mercury Compounds (CAS#7439976 and TRI ID N458)	0.0000

Part C: Signature of Responsible Official

☒ I hereby certify that the information in this emission statement is accurate based on reasonable estimates using data available to the preparers and on a reasonable inquiry into records and persons responsible for the operation of the source, and is true, accurate, and complete.

James Vinoski	Plant Manager
Name of Responsible Official *(typed or printed)*	Title of Responsible Official
James Vinoski	June 28, 2013
Signature of Responsible Official	Date *(month, day, year)*

Facility Emission Summary

MGPI of Indiana

Plant ID:1802900005 **Report for 2012**

Location: 7 Ridge Ave.Lawrenceburg.47025

NAICS: 31214 Distilleries

Pollutants	Pollutant Description	Emissions (Tons)
NH3	Ammonia	0
SO2	Sulfur Dioxide	0.5109
PM-PRI	Total Particulate Matter	133.1776
VOC	Volatile Organic Compounds	1175.7962
7439921	Lead	0
NOX	Nitrogen Oxides	42.60
PM25-PRI	Particulate Matter 2.5	11.8571
CO	Carbon Monoxide	71.5260
PM10-PRI	Particulate Matter 10	43.8329

Facility Emission Detail
MGPI of Indiana
Plant ID:1802900005 **Report for 2012**
Location: 7 Ridge Ave,Lawrenceburg,47025
NAICS: 31214 Distilleries

Facility Emissions Overview

Pollutants	Pollutant Description	Emissions (Tons)
NH3	Ammonia	0
SO2	Sulfur Dioxide	0.5109
PM-PRI	Total Particulate Matter	133.1776
VOC	Volatile Organic Compounds	1175.7962
7439921	Lead	0
NOX	Nitrogen Oxides	42.60
PM25-PRI	Particulate Matter 2.5	11.8571
CO	Carbon Monoxide	71.5260
PM10-PRI	Particulate Matter 10	43.8329

Group ID: 001 **Group Description:** GRAIN HANDLING
Percent Quarterly Throughput
Winter: 26 **Spring:** 26 **Summer:** 22 **Fall:** 26
Days Per Week: 7 **Weeks Per Year:** 50 **Hours Per Day:** 24 **Hours Per Year:** 8400

Process ID: 11 **Description:** OLD GRAIN UNLOADING OPERA

SCC: 30200605
Food and Agriculture
Feed and Grain Country Elevators
Unloading (Receiving)
Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 16959 Tons
Material: Grain

Stack: 103
Description: GRAIN BINS, OLD GRAIN UN'
Stack Type: Fugitive
Height: 216
Diameter: 1.33000004291534
Temperature: 68
Velocity: 5
Gas Flow: 500
Input/Output/: Process Material Used (Input)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
PM-PRI	State/Local Emission Factor	0.9750	0	8.2675
PM25-PRI	State/Local Emission Factor	0.066180	0	0.5612
PM10-PRI	State/Local Emission Factor	0.2350	0	1.9927

Process ID: 12 **Description:** CORN TRANSFER TO BINS

SCC: 30200605
Food and Agriculture
Feed and Grain Country Elevators
Unloading (Receiving)
Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 116828 Tons
Material: Grain

Stack: 112
Description: CORN TRANSPORT TO BINS
Stack Type: Fugitive
Height: 220
Diameter: 0.6600000262260440
Temperature: 68
Velocity: 67
Gas Flow: 1400
Input/Output/: Process Material Used (Input)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
PM10-PRI	State/Local Emission Factor	0.4046	99	0.2363
PM25-PRI	State/Local Emission Factor	0.113950	99	0.0666
PM-PRI	State/Local Emission Factor	1.6650	99	0.9726

Group ID: 001 **Group Description:** GRAIN HANDLING

Percent Quarterly Throughput

Winter: 26 **Spring:** 26 **Summer:** 22 **Fall:** 26

Days Per Week: 7 **Weeks Per Year:** 50 **Hours Per Day:** 24 **Hours Per Year:** 8400

Process ID: 13 **Description:** GRAIN BINS

SCC: 30200743
Food and Agriculture
Grain Millings
Dry Corn Milling: Precleaning/Handling

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 133788 Tons
Material: Grain

Stack: 103
Description: GRAIN BINS, OLD GRAIN UN'
Stack Type: Fugitive
Height: 216
Diameter: 1.33000004291534
Temperature: 68
Velocity: 5
Gas Flow: 500
Input/Output/: Process Material Used (Input)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
PM25-PRI	State/Local Emission Factor	0.000830	98.95	0.0006
PM10-PRI	State/Local Emission Factor	0.0125	98.95	0.0088
PM-PRI	State/Local Emission Factor	0.05	98.95	0.0351

Process ID: 14 **Description:** HAMMERMILLS

SCC: 30200743
Food and Agriculture
Grain Millings
Dry Corn Milling: Precleaning/Handling

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 133788 Tons
Material: Grain

Stack: 104
Description: HAMMERMILLS
Stack Type: Fugitive
Height: 216
Diameter: 1.33000004291534
Temperature: 68
Velocity: 5.90
Gas Flow: 500
Input/Output/: Process Material Used (Input)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
PM25-PRI	State/Local Emission Factor	0.017330	0	1.1593
PM10-PRI	State/Local Emission Factor	0.26	0	17.3924
PM-PRI	State/Local Emission Factor	0.9450	0	63.2148

Group ID: 002 **Group Description:** FERMENTING AND DISTILLING

Percent Quarterly Throughput

Winter: 26 **Spring:** 26 **Summer:** 22 **Fall:** 26

Days Per Week: 7 **Weeks Per Year:** 50 **Hours Per Day:** 24 **Hours Per Year:** 8400

Process ID: 20 **Description:** SPIRIT STILLS

SCC: 30201004
Food and Agriculture
Distilled Spirits
Fermentation Tank** (see 3-02-010-14)

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 8759 1000 Gallons
Material: Material

Stack: 210
Description: SPIRIT STILLS
Stack Type: Fugitive
Height: 216
Diameter: 1.33000004291534
Temperature: 173
Velocity: 0
Gas Flow: 0
Input/Output/: Process Material Produced (Outut)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
VOC	State/Local Emission Factor	0.000620	0	0.0027

Process ID: 21 **Description:** OPEN FERMENTERS "A"

SCC: 30201004
Food and Agriculture
Distilled Spirits
Fermentation Tank** (see 3-02-010-14)

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 606 1000 Bushels
Material: Material

Stack: 201
Description: OPEN FERMENTERS
Stack Type: Fugitive
Height: 40
Diameter: 0.8000000119209290
Temperature: 68
Velocity: 5
Gas Flow: 50
Input/Output/: Process Material Produced (Outut)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
VOC	State/Local Emission Factor	14.20	0	4.3026

Process ID: 22 **Description:** CLOSED FERMENTERS "B"

SCC: 30201004
Food and Agriculture
Distilled Spirits
Fermentation Tank** (see 3-02-010-14)

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 4172 1000 Bushels
Material: Material

Stack: 202
Description: CLOSED FERMENTERS
Stack Type: Fugitive
Height: 40
Diameter: 0.8000000119209290
Temperature: 68
Velocity: 5
Gas Flow: 50
Input/Output/: Process Material Produced (Outut)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
VOC	State/Local Emission Factor	1.42	1	2.9325

Process ID: 23 **Description:** BEER WELL #1 "B"

SCC: 30201004
Food and Agriculture
Distilled Spirits
Fermentation Tank** (see 3-02-010-14)

Heat Content: 1
Sulfur Content: 0
Ash Content: 0
Throughput: 4172 1000 Bushels
Material: Material

Stack: 203
Description: BEER WELL #1
Stack Type: Fugitive
Height: 25
Diameter: 23
Temperature: 68
Velocity: 0.10
Gas Flow: 5
Input/Output/: Process Material Produced (Outut)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
VOC	State/Local Emission Factor	2.72	0	5.6739

Group ID: 002 **Group Description:** FERMENTING AND DISTILLING

Percent Quarterly Throughput

Winter: 26 **Spring:** 26 **Summer:** 22 **Fall:** 26

Days Per Week: 7 **Weeks Per Year:** 50 **Hours Per Day:** 24 **Hours Per Year:** 8400

Process ID: 24 **Description:** BEER WELL #3 "A"

SCC: 30201004
Food and Agriculture
Distilled Spirits
Fermentation Tank** (see 3-02-010-14)

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 606 1000 Bushels
Material: Material

Stack: 204
Description: BEER WELL #3
Stack Type: Fugitive
Height: 25
Diameter: 17.79999923706050
Temperature: 68
Velocity: 0.10
Gas Flow: 5
Input/Output/: Process Material Produced (Outut)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
VOC	State/Local Emission Factor	2.72	0	0.8242

Process ID: 25 **Description:** BEER STILLS

SCC: 30201004
Food and Agriculture
Distilled Spirits
Fermentation Tank** (see 3-02-010-14)

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 140450 1000 Gallons
Material: Material

Stack: 205
Description: BEER STILLS
Stack Type: Fugitive
Height: 216
Diameter: 1.33000004291534
Temperature: 170
Velocity: 0
Gas Flow: 0
Input/Output/: Process Material Produced (Outut)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
VOC	State/Local Emission Factor	0.000620	0	0.0435

Process ID: 26 **Description:** COLUMN & KETTLES

SCC: 30201004
Food and Agriculture
Distilled Spirits
Fermentation Tank** (see 3-02-010-14)

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 97 1000 Gallons
Material: Material

Stack: 206
Description: COLUMN & KETTLES
Stack Type: Fugitive
Height: 216
Diameter: 1.33000004291534
Temperature: 170
Velocity: 0
Gas Flow: 0
Input/Output/: Process Material Produced (Outut)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
VOC	State/Local Emission Factor	0.000620	0	0.0000

Process ID: 27 **Description:** GIN STILLS

SCC: 30201004
Food and Agriculture
Distilled Spirits
Fermentation Tank** (see 3-02-010-14)

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 3320 1000 Gallons
Material: Material

Stack: 207
Description: GIN STILLS
Stack Type: Fugitive
Height: 216
Diameter: 1.33000004291534
Temperature: 170
Velocity: 0
Gas Flow: 0
Input/Output/: Process Material Produced (Outut)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
VOC	State/Local Emission Factor	0.000620	0	0.0010

Group ID: 002 **Group Description:** FERMENTING AND DISTILLING

Percent Quarterly Throughput

Winter: 26 **Spring:** 26 **Summer:** 22 **Fall:** 26

Days Per Week: 7 **Weeks Per Year:** 50 **Hours Per Day:** 24 **Hours Per Year:** 8400

Process ID: 29 **Description:** DOUBLER STILL

SCC: 30201004
Food and Agriculture
Distilled Spirits
Fermentation Tank** (see 3-02-010-14)

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 1928 1000 Gallons
Material: Material

Stack: 209
Description: DOUBLER
Stack Type: Fugitive
Height: 216
Diameter: 1.33000004291534
Temperature: 170
Velocity: 0
Gas Flow: 0
Input/Output/: Process Material Produced (Outut)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
VOC	State/Local Emission Factor	0.000620	0	0.0006

Group ID: 003 **Group Description:** DRYER HOUSE OPERATIONS

Percent Quarterly Throughput

Winter: 26 **Spring:** 26 **Summer:** 22 **Fall:** 26

Days Per Week: 7 **Weeks Per Year:** 50 **Hours Per Day:** 24 **Hours Per Year:** 8400

Process ID: 31 **Description:** PADDLE SCREENS (2 VENTS)

SCC: 30201002
Food and Agriculture
Distilled Spirits
Dryer House Operations

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 110 Tons
Material: Grain

Stack: 301
Description: PADDLE SCREEN VENTS (2)
Stack Type: Fugitive
Height: 45
Diameter: 0.50
Temperature: 68
Velocity: 10
Gas Flow: 100
Input/Output/: Process Material Used (Input)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
PM10-PRI	EPA Emission Factor	3.05	0	0.1678
PM-PRI	EPA Emission Factor	5	0	0.2750
PM25-PRI	EPA Emission Factor	1.15	0	0.0632
VOC	State/Local Emission Factor	1.43	0	0.0786

Process ID: 32 **Description:** ROTARY DRYERS (5)

SCC: 30201002
Food and Agriculture
Distilled Spirits
Dryer House Operations

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 133788 Tons
Material: Grain

Stack: 303
Description: ROTARY DRYERS (5)
Stack Type: Fugitive
Height: 45
Diameter: 0.50
Temperature: 200
Velocity: 20
Gas Flow: 1000
Input/Output/: Process Material Used (Input)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
PM10-PRI	State/Local Emission Factor	0.27	85.50	2.6189
PM25-PRI	State/Local Emission Factor	0.1018	85.50	0.9874
PM-PRI	State/Local Emission Factor	0.49	85.50	4.7528
VOC	EPA Emission Factor	2.60	0	173.9244

Process ID: 34 **Description:** DRIED GRAIN SILOS (2)

SCC: 30201001
Food and Agriculture
Distilled Spirits
Grain Handling** (see 3-02-006-05)

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 38807 Tons
Material: Grain

Stack: 341
Description: DRIED GRAIN SILOS
Stack Type: Fugitive
Height: 60
Diameter: 0.50
Temperature: 68
Velocity: 77
Gas Flow: 905
Input/Output/: Process Material Used (Input)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
PM10-PRI	State/Local Emission Factor	0.5122	0	9.9385
PM25-PRI	State/Local Emission Factor	0.034150	0	0.6626
PM-PRI	State/Local Emission Factor	2.11	0	40.9414

Group ID: 003 **Group Description:** DRYER HOUSE OPERATIONS

Percent Quarterly Throughput

Winter: 26 **Spring:** 26 **Summer:** 22 **Fall:** 26

Days Per Week: 7 **Weeks Per Year:** 50 **Hours Per Day:** 24 **Hours Per Year:** 8400

Process ID: 35 **Description:** DDG LOADERS

SCC: 30201001
Food and Agriculture
Distilled Spirits
Grain Handling** (see 3-02-006-05)

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 38807 Tons
Material: Grain

Stack: 350
Description: NEW DDG LOADING
Stack Type: Fugitive
Height: 20
Diameter: 0.50
Temperature: 68
Velocity: 2.50
Gas Flow: 29
Input/Output/: Process Material Used (Input)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
PM25-PRI	State/Local Emission Factor	0.0005	94.05	0.0006
PM-PRI	State/Local Emission Factor	0.0275	89.79	0.0545
PM10-PRI	State/Local Emission Factor	0.0075	94.05	0.0087

Process ID: 36 **Description:** PADDLE SCREENS (2 VENTS)

SCC: 30201002
Food and Agriculture
Distilled Spirits
Dryer House Operations

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 3277 Tons
Material: Grain

Stack: 301
Description: PADDLE SCREEN VENTS (2)
Stack Type: Fugitive
Height: 45
Diameter: 0.50
Temperature: 68
Velocity: 10
Gas Flow: 100
Input/Output/: Process Material Used (Input)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
PM25-PRI	EPA Emission Factor	1.15	0	1.8843
VOC	State/Local Emission Factor	5.09	0	8.3400
PM-PRI	EPA Emission Factor	5	0	8.1925
PM10-PRI	EPA Emission Factor	3.05	0	4.9974

Process ID: 37 **Description:** PADDLE SCREENS (2 VENTS)

SCC: 30201002
Food and Agriculture
Distilled Spirits
Dryer House Operations

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 0 Tons
Material: Grain

Stack: 301
Description: PADDLE SCREEN VENTS (2)
Stack Type: Fugitive
Height: 45
Diameter: 0.50
Temperature: 68
Velocity: 10
Gas Flow: 100
Input/Output/: Process Material Used (Input)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
PM25-PRI	EPA Emission Factor	1.15	0	0
VOC	State/Local Emission Factor	1.43	0	0
PM10-PRI	EPA Emission Factor	3.05	0	0
PM-PRI	EPA Emission Factor	5	0	0

Group ID: 004 **Group Description:** TANK OPERATIONS

Percent Quarterly Throughput

Winter: 25 **Spring:** 26 **Summer:** 24 **Fall:** 25

Days Per Week: 7 **Weeks Per Year:** 51 **Hours Per Day:** 24 **Hours Per Year:** 8568

Process ID: 41 **Description:** WINE ROOM

SCC: 40700810
Organic Chemical Storage
Fixed Roof Tanks - Alcohols
Ethyl Alcohol: Working Loss

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 12176 1000 Gallons
Material: Ethanol

Stack: 410
Description: WINE ROOM
Stack Type: Fugitive
Height: 85
Diameter: 0.25
Temperature: 68
Velocity: 5
Gas Flow: 50
Input/Output/: Process Material Used (Input)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
VOC	State/Local Emission Factor	1.22	0	7.4274

Process ID: 42 **Description:** TANK FARM

SCC: 40700809
Organic Chemical Storage
Fixed Roof Tanks - Alcohols
Ethyl Alcohol: Breathing Loss

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 5536 1000 Gallon-Years
Material: Ethanol

Stack: 420
Description: TANK FARM
Stack Type: Fugitive
Height: 30
Diameter: 0.25
Temperature: 68
Velocity: 5
Gas Flow: 50
Input/Output/: Process Material Existing

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
VOC	State/Local Emission Factor	1.2670	0	3.5071

Process ID: 44 **Description:** REGAUGE TANK ROOM

SCC: 40700810
Organic Chemical Storage
Fixed Roof Tanks - Alcohols
Ethyl Alcohol: Working Loss

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 4759 1000 Gallons
Material: Ethanol

Stack: 440
Description: REGAUGE TANKS
Stack Type: Fugitive
Height: 30
Diameter: 0.25
Temperature: 68
Velocity: 5
Gas Flow: 50
Input/Output/: Process Material Used (Input)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
VOC	State/Local Emission Factor	0.8170	0	1.9441

Process ID: 45 **Description:** MINI TANK FARM/BLDG 88

SCC: 40700809
Organic Chemical Storage
Fixed Roof Tanks - Alcohols
Ethyl Alcohol: Breathing Loss

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 15084 1000 Gallon-Years
Material: Ethanol

Stack: 430
Description: MINI TANK FARM/BLDG 88
Stack Type: Fugitive
Height: 30
Diameter: 0.25
Temperature: 68
Velocity: 5
Gas Flow: 50
Input/Output/: Process Material Existing

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
VOC	State/Local Emission Factor	1.3880	0	10.4683

Group ID: 005 **Group Description:** BOTTLING OPERATIONS

Percent Quarterly Throughput

Winter: 25 **Spring:** 26 **Summer:** 25 **Fall:** 24

Days Per Week: 5 **Weeks Per Year:** 51 **Hours Per Day:** 8 **Hours Per Year:** 2040

Process ID: 51 **Description:** BOTTLING TANK ROOM

SCC: 40700810
Organic Chemical Storage
Fixed Roof Tanks - Alcohols
Ethyl Alcohol: Working Loss

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 4629 1000 Gallons
Material: Ethanol

Stack: 510
Description: BOTTLING TANK ROOM
Stack Type: Fugitive
Height: 30
Diameter: 0.25
Temperature: 68
Velocity: 5
Gas Flow: 50
Input/Output/: Process Material Used (Input)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
VOC	State/Local Emission Factor	0.7410	0	1.7150

Process ID: 52 **Description:** BOTTLING LINES

SCC: 30201199
Food and Agriculture
Wines, Brandy, and Brandy Spirits
Other Not Classified

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 5946 1000 Gallons
Material: Material

Stack: 520
Description: BOTTLING LINES
Stack Type: Fugitive
Height: 30
Diameter: 0.25
Temperature: 68
Velocity: 5
Gas Flow: 0
Input/Output/: Process Material Produced (Outut)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
VOC	State/Local Emission Factor	0.9130	0	2.7143

Process ID: 53 **Description:** COOLER OPERATIONS -FLAVOR

SCC: 30201199
Food and Agriculture
Wines, Brandy, and Brandy Spirits
Other Not Classified

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 2385 1000 Gallons
Material: Material

Stack: 530
Description: COOLER OPERATIONS
Stack Type: Fugitive
Height: 30
Diameter: 0.25
Temperature: 68
Velocity: 5
Gas Flow: 0
Input/Output/: Process Material Produced (Outut)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
VOC	State/Local Emission Factor	0.9130	0	1.0888

Process ID: 54 **Description:** COOLER OPERATIONS -TANKS

SCC: 30201199
Food and Agriculture
Wines, Brandy, and Brandy Spirits
Other Not Classified

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 2385 1000 Gallons
Material: Material

Stack: 530
Description: COOLER OPERATIONS
Stack Type: Fugitive
Height: 30
Diameter: 0.25
Temperature: 68
Velocity: 5
Gas Flow: 0
Input/Output/: Process Material Produced (Outut)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
VOC	State/Local Emission Factor	0.11	0	0.1312

Group ID: 006 **Group Description:** BARREL FILLING

Percent Quarterly Throughput

Winter: 25 **Spring:** 26 **Summer:** 24 **Fall:** 25

Days Per Week: 5 **Weeks Per Year:** 51 **Hours Per Day:** 8 **Hours Per Year:** 2040

Process ID: 61 **Description:** BARREL FIL/MT GIN

SCC: 30201199
Food and Agriculture
Wines, Brandy, and Brandy Spirits
Other Not Classified

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 0 1000 Gallons
Material: Material

Stack: 610
Description: BARREL FILLING OPS.
Stack Type: Fugitive
Height: 30
Diameter: 0.25
Temperature: 68
Velocity: 5
Gas Flow: 0
Input/Output/: Process Material Produced (Outut)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
VOC	State/Local Emission Factor	0.9130	0	0

Process ID: 62 **Description:** BARREL FIL/MT WHISKEY

SCC: 30201199
Food and Agriculture
Wines, Brandy, and Brandy Spirits
Other Not Classified

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 2086 1000 Gallons
Material: Material

Stack: 610
Description: BARREL FILLING OPS.
Stack Type: Fugitive
Height: 30
Diameter: 0.25
Temperature: 68
Velocity: 5
Gas Flow: 0
Input/Output/: Process Material Produced (Outut)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
VOC	State/Local Emission Factor	0.9130	0	0.9523

Group ID: 007 **Group Description:** BARREL STORAGE

Percent Quarterly Throughput

Winter: 25 **Spring:** 25 **Summer:** 25 **Fall:** 25

Days Per Week: 7 **Weeks Per Year:** 52 **Hours Per Day:** 24 **Hours Per Year:** 8736

Process ID: 71 **Description:** BARREL STORAGE OPS

SCC: 30201010
Food and Agriculture
Distilled Spirits
Whiskey Bottling: Storage** (see 3-02-010-18)

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 260719 Barrel-Years
Material: Product

Stack: 701
Description: BARREL STORAGE
Stack Type: Fugitive
Height: 20
Diameter: 1
Temperature: 68
Velocity: 0
Gas Flow: 0
Input/Output/: Process Material Existing

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
VOC	State/Local Emission Factor	6.90	0	899.4806

Group ID: 008 **Group Description:** FUGITIVE EMISSIONS

Percent Quarterly Throughput

Winter: 26 **Spring:** 26 **Summer:** 22 **Fall:** 26

Days Per Week: 7 **Weeks Per Year:** 50 **Hours Per Day:** 24 **Hours Per Year:** 8400

Process ID: 01 **Description:** FUGITIVE LEAKS FROM PIPES

SCC: 30288801
Food and Agriculture
Fugitive Emissions
Specify in Comments Field

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 34430 Tons
Material: Product

Stack: 810
Description: FUGITIVE LEAKS FROM PIPES
Stack Type: Fugitive
Height: 20
Diameter: 1
Temperature: 68
Velocity: 0
Gas Flow: 0
Input/Output/: Process Material Produced (Outut)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
VOC	EPA Speciation Profile	0	0	45.56

Process ID: 03 **Description:** DISTILLERY MAINTENANCE

SCC: 39999989
Miscellaneous Manufacturing Industries
Miscellaneous Industrial Processes
Other Not Classified

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 0 Kilograms
Material: Material

Stack: 0
Description: No Stack Associated
Stack Type: Fugitive
Height: 0
Diameter: 0
Temperature: 0
Velocity: 0
Gas Flow: 0
Input/Output/: Process Material Used (Input)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
VOC	State/Local Emission Factor	0.0214	0	0

Process ID: 04 **Description:** BOTTLING MAINTENANCE

SCC: 39999989
Miscellaneous Manufacturing Industries
Miscellaneous Industrial Processes
Other Not Classified

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 0 Kilograms
Material: Material

Stack: 0
Description: No Stack Associated
Stack Type: Fugitive
Height: 0
Diameter: 0
Temperature: 0
Velocity: 0
Gas Flow: 0
Input/Output/: Process Material Used (Input)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
VOC	State/Local Emission Factor	0.0214	0	0

Group ID: 009 **Group Description:** STEAM PLANT OPERATIONS

Percent Quarterly Throughput

Winter: 26 **Spring:** 26 **Summer:** 22 **Fall:** 26

Days Per Week: 7 **Weeks Per Year:** 50 **Hours Per Day:** 24 **Hours Per Year:** 8400

Process ID: 61 **Description:** BOILER #6 - COAL

SCC: 10300205
Commercial/Institutional
Bituminous/Subbituminous Coal
Pulverized Coal: Wet Bottom (Bituminous Coal)

Heat Content: 0
Sulfur Content: 0.85
Ash Content: 9.19
Throughput: 0 Tons
Material: Bituminous Coal

Stack: 906
Description: BOILER 6
Stack Type: Fugitive
Height: 275
Diameter: 7
Temperature: 350
Velocity: 43
Gas Flow: 98400
Input/Output/: Process Material Used (Input)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
N20	EPA Emission Factor	0.08	0	0
7440417	EPA Emission Factor	0.001940	0	0
7440473	EPA Emission Factor	0.0310	0	0
PM10-PRI	EPA Emission Factor	0	98.19	0
7439921	EPA Emission Factor	0.0120	0	0
CH4	EPA Emission Factor	0.05	0	0
CO	EPA Emission Factor	0.50	0	0
7440382	EPA Emission Factor	0.0130	0	0
7664393	EPA Emission Factor	0.15	0	0
7440020	EPA Emission Factor	0.0260	0	0
NOX	State/Local Emission Factor	22	0	0
NH3	EPA Emission Factor	0.000560	0	0
7439965	EPA Emission Factor	0.0460	0	0
PM25-PRI	Material Balance	0	0	0
VOC	State/Local Emission Factor	0.07	0	0
PM-PRI	State/Local Emission Factor	10	98.19	0
SO2	EPA Emission Factor	38	0	0
7439976	EPA Emission Factor	0.000380	0	0
7440439	EPA Emission Factor	0.001370	0	0
7647010	EPA Emission Factor	1.20	0	0

Process ID: 62 **Description:** BOILER #6 - FUEL OIL

SCC: 10300401
Commercial/Institutional
Residual Oil
Grade 6 Oil

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 0 1000 Gallons
Material: Residual Oil (No. 6)

Stack: 906
Description: BOILER 6
Stack Type: Fugitive
Height: 275
Diameter: 7
Temperature: 350
Velocity: 43
Gas Flow: 98400
Input/Output/: Process Material Used (Input)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
7439976	State/Local Emission Factor	1.40	0	0
7440020	State/Local Emission Factor	837	0	0
7440382	State/Local Emission Factor	0	0	0
PM10-PRI	EPA Emission Factor	7.80	98.19	0
7439965	State/Local Emission Factor	23	0	0
7440417	State/Local Emission Factor	0	0	0
7440473	State/Local Emission Factor	21	0	0
SO2	EPA Emission Factor	158.600010	0	0
VOC	EPA Emission Factor	1.13	0	0
CO	EPA Emission Factor	5	0	0
7439921	EPA Emission Factor	0.0042	0	0
PM-PRI	EPA Emission Factor	12	98.19	0

Group ID: 009 **Group Description:** STEAM PLANT OPERATIONS

Percent Quarterly Throughput

Winter: 26 **Spring:** 26 **Summer:** 22 **Fall:** 26

Days Per Week: 7 **Weeks Per Year:** 50 **Hours Per Day:** 24 **Hours Per Year:** 8400

Process ID: 62 **Description:** BOILER #6 - FUEL OIL

SCC: 10300401
Commercial/Institutional
Residual Oil
Grade 6 Oil

Heat Content: 0
Sulfur Content: 0
Ash Content: 0
Throughput: 0 1000 Gallons
Material: Residual Oil (No. 6)

Stack: 906
Description: BOILER 6
Stack Type: Fugitive
Height: 275
Diameter: 7
Temperature: 350
Velocity: 43
Gas Flow: 98400
Input/Output/: Process Material Used (Input)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
PM25-PRI	EPA Emission Factor	0	98.19	0
50000	State/Local Emission Factor	161	0	0
NOX	EPA Emission Factor	47	0	0
7440439	State/Local Emission Factor	16	0	0

Process ID: 63 **Description:** BOILER #6 - NATURAL GAS

SCC: 10300601
Commercial/Institutional
Natural Gas
> 100 Million Btu/hr

Heat Content: 1
Sulfur Content: 0
Ash Content: 0.02
Throughput: 1702 Million Cubic Feet
Material: Natural Gas

Stack: 906
Description: BOILER 6
Stack Type: Fugitive
Height: 275
Diameter: 7
Temperature: 350
Velocity: 43
Gas Flow: 98400
Input/Output/: Process Material Used (Input)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
VOC	EPA Emission Factor	5.50	0	4.6805
PM10-PRI	EPA Emission Factor	7.60	0	6.4676
PM25-PRI	EPA Emission Factor	7.60	0	6.4676
NOX	State/Local Emission Factor	50	0	42.55
SO2	EPA Emission Factor	0.60	0	0.5106
CO	EPA Emission Factor	84	0	71.4840
PM-PRI	EPA Emission Factor	7.60	0	6.4676

Process ID: 73 **Description:** BOILER #7 - NATURAL GAS

SCC: 10200602
Industrial
Natural Gas
10-100 Million Btu/hr

Heat Content: 1
Sulfur Content: 0
Ash Content: 0.02
Throughput: 1 Million Cubic Feet
Material: Natural Gas

Stack: 907
Description: BOILER 7
Stack Type: Fugitive
Height: 32
Diameter: 3.29999995231628
Temperature: 550
Velocity: 25
Gas Flow: 12830
Input/Output/: Process Material Used (Input)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
PM25-PRI	EPA Emission Factor	7.60	0	0.0038
CO	EPA Emission Factor	84	0	0.0420
NOX	EPA Emission Factor	100	0	0.05
PM-PRI	EPA Emission Factor	7.60	0	0.0038
SO2	EPA Emission Factor	0.60	0	0.0003
VOC	EPA Emission Factor	5.50	0	0.0028
PM10-PRI	EPA Emission Factor	7.60	0	0.0038

Group ID: 009 **Group Description:** STEAM PLANT OPERATIONS

Percent Quarterly Throughput

Winter: 26 **Spring:** 26 **Summer:** 22 **Fall:** 26

Days Per Week: 7 **Weeks Per Year:** 50 **Hours Per Day:** 24 **Hours Per Year:** 8400

Process ID: 74 **Description:** BOILER #6 - WOOD(BOT'LS)

SCC: 39000989
In-process Fuel Use
Wood
General

Heat Content: 1
Sulfur Content: 0.10
Ash Content: 10
Throughput: 0 Tons
Material: Wood

Stack: 906
Description: BOILER 6
Stack Type: Fugitive
Height: 275
Diameter: 7
Temperature: 350
Velocity: 43
Gas Flow: 98400

Input/Output/: Process Material Used (Input)

Pollutant	Estimation Method	Factor	Overall Control Effciency	Emission (Tons)
PM10-PRI	State/Local Emission Factor	0.01	98.19	0
VOC	State/Local Emission Factor	0.0930	0	0
PM25-PRI	State/Local Emission Factor	0.01	98.19	0
CO	State/Local Emission Factor	0.50	0	0
SO2	State/Local Emission Factor	0.0240	0	0
PM-PRI	State/Local Emission Factor	0.01	98.19	0
NOX	State/Local Emission Factor	0.20	0	0

FORM-ES1
1/00

IDEM

STATE OF INDIANA
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT

Emission Statement Addendum
Hazardous Air Pollutants (HAPs)

Company Name: MGPI of Indiana, LLC

Location: 7 Ridge Avenue, Lawrenceburg, IN 47025

Check the box next to the name of any compound emitted. If these emissions were included as part of the Emissions Statement check the box in the column labeled I-STEPS. Provide both the actual and potential ("potential to emit") emissions for each compound in tons/year.

"Potential to emit" means the maximum capacity of a source to emit a pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the source to emit a pollutant, including air pollution equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design IF THE LIMITATION OR THE EFFECT IT WOULD HAVE ON EMISSIONS IS ENFORCEABLE (326 IAC 2-6-2(18)). *[An example would be an asphalt plant subject to an New Source Performance Standard (NSPS) of 0.04 gr/dscf for particulate matter. The plant may have controls that limit particulate matter to 0.01 gr/dscf, but the enforceable limit is 0.04 gr/dscf. Therefore, the potential to emit would be based on the 0.04 gr/dscf standard and not the 0.01 gr/dscf.]*

"Actual emissions" are based on the true production and do not assume 8,760 hours of operation at maximum design. Actual emissions are calculated after controls and are not dependent on any enforceable limitations.

Emitted?	I-STEPS?	CAS	Chemical Name	Actual Emissions	Potential Emissions
☒	☒	00075070	Acetaldehyde	0.169	0.462
☐	☐	00060355	Acetamide		
☐	☐	00075058	Acetonitrile		
☐	☐	00098862	Acetophenone		
☐	☐	00053963	2-Acetylaminofluorene		
☐	☐	00107028	Acrolein		
☐	☐	00079061	Acrylamide		
☐	☐	00079107	Acrylic Acid		
☐	☐	00107131	Acrylonitrile		
☐	☐	00107051	Allyl chloride		
☐	☐	00092671	4-Aminodiphenyl		
☐	☐	00062533	Aniline		
☐	☐	00090040	o-Anisidine		
☐	☐	01912249	Atrazine		
☐	☐	01332214	Asbestos		
☐	☐	00056553	Benz(a)anthracene		
☐	☐	00071432	Benzene (including from gasoline)		
☐	☐	00092875	Benzidine		
☐	☐	00050328	Benzo(a)pyrene		
☐	☐	00098077	Benzotrichloride		
☐	☐	00100447	Benzyl chloride		
☐	☐	00092524	Biphenyl		
☐	☐	00117817	Bis (2-ethylhexyl) phthalate (DEHP)		
☐	☐	00542881	Bis (chloromethyl) ether		
☐	☐	00075252	Bromoform		

Hazardous Air Pollutants (continued)

FORM SS2
1/00

Emitted?	I-STEPS?	CAS	Chemical Name	Actual Emissions	Potential Emissi
☐	☐	00106990	1,3-Butadiene		
☐	☐	00156627	Calcium cyanamide		
☐	☐	00105602	Caprolactam		
☐	☐	00133062	Captan		
☐	☐	00063252	Carbaryl		
☐	☐	00075150	Carbon disulfide		
☐	☐	00056235	Carbon tetrachloride		
☐	☐	00463581	Carbonyl sulfide		
☐	☐	00120809	Catechol (1,2-dihydroxylbenzene)		
☐	☐	00133904	Chloramben		
☐	☐	00057749	Chlordane		
☐	☐	07782505	Chlorine		
☐	☐	00079118	Chloracetic acid		
☐	☐	00532274	2-Chloroacetophenone		
☐	☐	00108907	Chlorobenzene		
☐	☐	00510156	Chlorobenzilate		
☐	☐	00067663	Chloroform		
☐	☐	00107302	Chloromethyl methyl ether		
☐	☐	00126998	Chloroprene		
☐	☐	00218019	Chrysene		
☐	☐	01319773	Cresols/Cresylic Acid (isomers and mixtures)		
☐	☐	00095487	o-Cresol		
☐	☐	00108394	m-Cresol		
☐	☐	00106445	p-Cresol		
☐	☐	00098828	Cumene		
☐	☐	00094757	2,4-D, (2,4-Dichlorophenoxyacetic acid, including salts and esters)		
☐	☐	00072559	DDE (1,1-Dichloro-2,2-bis(p-chlorophenyl)ethylene		
☐	☐	00334883	Diazomethane		
☐	☐	00132649	Dibenzofuran		
☐	☐	00096128	1,2-Dibromo-3-chloropropane		
☐	☐	00084742	Dibutylphthalate		
☐	☐	00106467	1,4-Dichlorobenzene		
☐	☐	00091941	3,3'-Dichlorobenzidine		
☐	☐	00111444	Dichloroethyl ether [Bis (2-chloroethyl) ether]		
☐	☐	00542756	1,3-Dichloropropene		
☐	☐	00062737	Dichlorvos (DDVP)		
☐	☐	00111422	Diethanolamine		
☐	☐	00121697	N,N-Dimethylaniline		
☐	☐	00064675	Diethyl sulfate		
☐	☐	00119904	3,3'-Dimethoxybenzidine		
☐	☐	00060117	Dimethyl aminoazobenzene		
☐	☐	00119937	3,3'-Dimethylbenzidine		
☐	☐	00079447	Dimethylcarbamoyl chloride		
☐	☐	00068122	Dimethylformamide		
☐	☐	00057147	1,1-Dimethylhydrazine		

Hazardous Air Pollutants (continued)

FORM ES3
1/00

Emitted?	I-STEPS?	CAS	Chemical Name	Actual Emissions	Potential Emissio
☐	☐	00131113	Dimethyl phthalate		
☐	☐	00077781	Dimethyl Sulfate		
☐	☐		4,6-Dinitro-o-cresol, and salts		
☐	☐	00051285	2,4-Dinitrophenol		
☐	☐	00121142	2,4-Dinitrotoluene		
☐	☐	00117840	Dioctyl phthlate		
☐	☐	00123911	1,4-Dioxane (1,4-Diethyleneoxide)		
☐	☐	00122667	1,2-Diphenylhydrazine		
☐	☐	00106898	Epichlorohydrin (1-Chloro-2,3-epoxypropane)		
☐	☐	00106887	1,2-Epoxybutane		
☐	☐	00140885	Ethyl acrylate		
☐	☐	00100414	Ethylbenzene		
☐	☐	00051796	Ethyl carbamate (Urethane)		
☐	☐	00075003	Ethyl chloride (Chloroethane)		
☐	☐	00106934	Ethylene dibromide (Dibromoethane)		
☐	☐	00107062	Ethylene dichloride (1,2-Dichloroethane)		
☐	☐	00107211	Ethylene Glycol[1]		
☐	☐	00151564	Ethyleneimine (Azirdine)		
☐	☐	00075218	Ethylene Oxide		
☐	☐	00096457	Ethylene thiourea		
☐	☐	00075343	Ethylidene dichloride(1,1-Dichloroethane)		
☐	☐	00206440	Fluoranthene		
☐	☐	00050000	Formaldehyde		
☐	☐	00076448	Heptachlor		
☐	☐	00118741	Hexachlorobenzene		
☐	☐	00087683	Hexachorobutadiene		
☐	☐	00058899	1,2,3,4,5,6-Hexachlorocyclohexane (all stereo isomers, including Lindane)		
☐	☐	00077474	Hexachlorocyclopentadiene		
☐	☐	00067721	Hexachloroethane		
☐	☐	00822060	Hexamethylene-1,6-diisocyanate		
☐	☐	00680319	Hexamethylphosphoramide		
☐	☐	00110543	Hexane		
☐	☐	00302012	Hydrazine		
☐	☐	07647010	Hydrochloric acid [Hydrogen chloride (gas only)]		
☐	☐	07664393	Hydrogen fluoride (Hydrofluoric acid)		
☐	☐	00123319	Hydroquinone		
☐	☐	00078591	Isophorone		
☐	☐	00108316	Maleic anhydride		
☐	☐	00067561	Methanol		
☐	☐	00072435	Methoxychlor		
☐	☐	00074839	Methyl Bromide (Bromomethane)		
☐	☐	00074873	Methyl chloride (Chloromethane)		
☐	☐	00071556	Methyl Chloroform (1,1,1-Trichloroethane)		
☐	☐	00078933	Methyl ethyl ketone (2-Butanone)		

Hazardous Air Pollutants (continued)

FORM ES4
1/00

Emitted?	I-STEPS?	CAS	Chemical Name	Actual Emissions	Potential Emissio
☐	☐	00060344	Methylhydrazine		
☐	☐	00074884	Methyliodide (Iodomethane)		
☐	☐	00108101	Methyl isobutyl ketone (Hexone)		
☐	☐	00624839	Methyl isocyanate		
☐	☐	00080626	Methyl methacrylate		
☐	☐	01634044	Methyl tert-butyl ether		
☐	☐	00101144	4,4-Methylenebis(2-chloroaniline)		
☐	☐	00075092	Methylene chloride (Dichloromethane)		
☐	☐	00101688	4-4' Methylenediphenyl diisocyanate (MDI)		
☐	☐	00101779	4,4-Methylenedianiline		
☐	☐	00091203	Naphthalene		
☐	☐	00098953	Nitrobenzene		
☐	☐	00092933	4-Nitrobiphenyl		
☐	☐	00100027	4-Nitrophenol		
☐	☐	00079469	2-Nitropropane		
☐	☐	00684935	N-Nitroso-N-methylurea		
☐	☐	00062759	N-Nitrosodimethylamine		
☐	☐	00059892	N-Nitrosomorpholine		
☐	☐	00056382	Parathion		
☐	☐	00082688	Pentachloronitrobenzene (Quintobenzene)		
☐	☐	00087865	Pentachlorophenol		
☐	☐	00108952	Phenol		
☐	☐	00106503	p-Phenylenediamine		
☐	☐	00075445	Phosgene		
☐	☐	07803512	Phosphine		
☐	☐	07723140	Phosphorus		
☐	☐	00085449	Phthalic anhydride		
☐	☐	01336363	Polychlorinated biphenyls (Aroclors)		
☐	☐	01120714	1,3-Propane sultone		
☐	☐	00057578	beta-Propiolactone		
☐	☐	00123386	Propionaldehyde		
☐	☐	00114261	Propoxur (Baygon)		
☐	☐	00078875	Propylene dichloride (1,2-Dichloropropane)		
☐	☐	00075569	Propylene Oxide		
☐	☐	00075558	1,2-Propylenimine (2-Methyl aziridine)		
☐	☐	00091225	Quinoline		
☐	☐	00106514	Quinone		
☐	☐	00100425	Styrene		
☐	☐	00096093	Styrene Oxide		
☐	☐	01746016	2,3,7,8-Tetrachlorodibenzo-p-dioxin		
☐	☐	00079345	1,1,2,2-Tetrachloroethane		
☐	☐	00127184	Tetrachloroethylene (Perchloroethylene)		
☐	☐	07550450	Titanium tetrachloride		
☐	☐	00108883	Toluene		
☐	☐	00095807	2,4-Toluenediamine		

Hazardous Air Pollutants (continued)

FORM 2S5
1/00

Emitted?	I-STEPS?	CAS	Chemical Name	Actual Emissions	Potential Emissions
D	D	00584849	2,4-Toluene diisocyanate		
D	D	00095534	o-Toluidine		
D	D	08001352	Toxaphene (chlorinated camphene)		
D	D	00120821	1,2,4-Trichlorobenzene		
D	D	00079005	1,1,2-Trichloroethane		
D	D	00079016	Trichloroethylene		
D	D	00095954	2,4,5-Trichlorophenol		
D	D	00088062	2,4,6-Trichlorophenol		
D	D	00121448	Triethylamine		
D	D	01582098	Trifluralin		
D	D	00540841	2,2,4-Trimethylpentane		
D	D	00108054	Vinyl acetate		
D	D	00593602	Vinyl bromide		
D	D	00075014	Vinyl chloride		
D	D	00075354	Vinylidene chloride (1,1-Dichloroethylene)		
D	D	01330207	Xylenes (isomers and mixtures)		
D	D	00095476	o-Xylene		
D	D	00108383	m-Xylene		
D	D	00106423	p-Xylene		
D	D		Antimony Compounds		
D	D		Arsenic Compounds (inorganic including arsine)		
D	D		Beryllium Compounds		
D	D		Cadmium Compounds		
D	D		Chromium Compounds (including Cr^{+6})		
D	D		Cobalt Compounds		
D	D		Coke Oven Emissions		
D	D		Copper Compounds		
D	D		Cyanide Compounds[2]		
D	D		Glycol Ethers		
D	D		Lead Compounds		
D	D		Manganese Compounds		
D	D		Mercury Compounds		
D	D		Fine Mineral Fibers[3]		
D	D		Nickel Compounds		
D	D		Polycyclic Organic Matter[4]		
D	D		Polychlorinated biphenyls (total)		
D	D		Polychlorinated dibenzodioxins (total)		
D	D		Polychlorinated dibenzofurans (total)		
D	D		Radionuclides (including Radon)[5]		
D	D		Selenium Compounds		

D None of the compounds listed under Hazardous Air Pollutants are emitted from this source.

NOTE: For all listings above which contain the word "compounds" and for glycol ethers, the following applies: unless otherwise specified, these listings are defined as including any unique chemical substance that contains the named chemical (i.e., Antimony, arsenic, etc.) As part of that chemical's infrastructure.

[1] Includes mono- and di- ethers of ethylene glycol, diethylene glycol, and triethylene glycol $R-(OCH_2CH_2)_n-OR'$ where: n=1, 2, or 3;

R= alkyl or aryl groups; and R' = R, H, or groups which, when removed, yield glycol ethers with the structure $R-(OCH_2CH_2)_n-OH$. Polymers are excluded from the glycol category.

Some common glycol ethers include:

Chemical name	CAS #
Diethylene glycol	00111466
Diethylene glycol butyl ether acetate	00124174
Diethylene glycol dibutyl ether	00112732
Diethylene glycol monoethyl ether	00111900
Diethylene glycol monomethyl ether	00111773
Ethylene glycol monobutyl ether	00111762
Ethylene glycol monoethyl ether	00110805
Ethylene glycol monobutyl ether acetate	00112072
Triethylene glycol monobutyl ether	00143226
Triethylene glycol monoethyl ether	00112505
Triethylene glycol monomethyl ether	00112356
Diethylene glycol monoethyl ether acetate	00112152

[2] X'CN where X=H' or any other group where a formal dissociation may occur. For example KCN or $Ca(CN)_2$

[3] includes mineral fiber emissions from facilities manufacturing or processing glass, rock, or slag fibers (or other mineral derived fibers) of average diameter 1 micrometer or less.

[4] limited to, or refers to, products from incomplete combustion of organic compounds (or material) and pyrolysis processes having more than one (1) benzene ring, and which have a boiling point greater than or equal to 100 degrees Celsius. Primary constituents of the polycyclic organic matter category include:

Pollutant	CAS
Acenaphthene	0083329
Acenaphthylene	0208968
Anthracene	0120127
Benz(a)anthracene	0056553
Benzo(a)pyrene	0050328
Benzo(b)fluoranthene	0205992
Benzo(ghi))perylene	0191242
Benzo(k)fluoranthene	0207089
Chrysene	0218019
Dibenz(a,h)anthracene	0053703
Fluoranthene	0206440
Fluorene	0086737
Indeno(1,2,3-cd)pyrene	0193395
Naphthalene	0091203
Phenanthrene	0085018
Pyrene	0129000

[5] a type of atom which spontaneously undergoes radioactive decay.

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