

## 2019 Annual Public Reporting for Toxic Substances Sulphuric Acid

### Facility and Contact Information

Facility NPRI No.	485
Facility MOE No. if assigned	8407
Company legal and trade names of owner and operator of the facility	Ingredion Canada Corporation
Facility street/ mailing address	1100 Green Valley Road London, Ontario Canada N6N 1E3
Name, position, tel no. of facility public contact	Gene Ryan, Acting Plant Manager 519-686-3160
No. of full-time employee equivalent	106
2, 4, and 6 digit NAICS Codes	31-33 Manufacturing 3112 Grain & Oilseed Milling 311221 Wet Corn Milling
UTM spatial coordinates with NAD83 datum	17T 484346 E; 4752320 N
Legal name of Canadian parent company	Ingredion Canada Corporation
Street and mailing address of parent company	1600 - 90 Burnhamthorpe Road West Mississauga, Ontario, L5B 0H9
Percentage ownership of facility	100

### Toxic Substance Plan Information

Name and CAS numbers of toxic substance for this report	Sulphuric Acid, CAS 7669-93-9
Name and CAS No's of other toxic substances for which plans have been prepared at the facility	Ammonia (Total) NA-16 Hydrochloric Acid, CAS 7647-01-0 Phosphorus (Total), CAS NA-22 Hydrogen Sulphide, CAS 7783-06-4 Total Reduced Sulphur, CAS NA-M14 Carbon Monoxide, CAS 630-08-0 Nitrogen Oxides (expressed as NO <sub>2</sub> ), CAS 11104-93-1 Sulfur Dioxide, CAS 7446-09-5 Total Particulate, CAS NA-M08 PM10 - Particulate <= 10 micron, CAS NA-M09 PM2.5 Particulate <= 2.5 micron, CAS NA-M10
Date of most recent plan	3/21/2016
Objectives of plan, and targets	Ingredion's main business is producing valuable products from corn, and has already invested significant resources to reduce waste and excess chemical usage. Through this plan, Ingredion is committed to reducing the usage of sulphuric acid. This will be accomplished by assessing potential reductions through material or feedstock substitution, product design or reformulation, equipment or process modification, spill and leak prevention, on-site reuse or recycling, improved inventory management or purchasing techniques, and training or improved operating procedures.
Summarize any amendmendments to the plan	There have been no plan amendments
Summarize the steps taken during the reporting period towards achieving the objectives of the plan	No steps were planned to be taken for the 2019 reporting year



**2019 Annual Public Reporting for Toxic Substances  
Sulphuric Acid**

Summarize the effectiveness of the steps taken during the reporting period	No steps were planned to be taken for the 2019 reporting year
Review implementation progress and timelines set out in the plan	The implementation plan did not contain any reduction steps for the 2019 reporting year
Summarize actions taken in this reporting year that were additional to the steps described in the plan	There were no additional actions taken for the 2019 reporting year

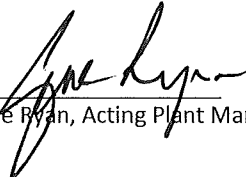
**Annual Reporting Metrics**

Sulphuric Acid	Tonne			On-site Releases, tonne			Disposals, tonne		Off-Site Recycled, tonne
	Used	Created	In Product	Air	Land	Water	On-Site	Off-Site	
Previous Year	10-100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Current Year	10-100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Difference	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%
Reductions in plan	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Reductions outside plan	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total Reductions	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Percent Reductions	0	0	0	0	0	0	0	0	0
Rationale for changes	no significant change								

**Certification**

As of August 1, 2020, I, Gene Ryan, certify that I have read the report on the toxic substance reduction plan for the toxic substance referred to below and am familiar with its contents, and to my knowledge the information contained in the report is factually accurate and the report complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

Sulphuric Acid

  
Gene Ryan, Acting Plant Manager



**2019 Annual Public Reporting for Toxic Substances  
Sulphur Dioxide**

**Facility and Contact Information**

Facility NPRI No.	485
Facility MOE No. if assigned	8407
Company legal and trade names of owner and operator of the facility	Ingredion Canada Corporation
Facility street and mailing address	1100 Green Valley Road London, Ontario Canada N6N 1E3
Name, position, telephone no. of facility public contact	Gene Ryan Acting Plant Manager 519-686-3160
No. of full-time employee equivalent	106
2, 4, and 6 digit NAICS Codes	31-33 Manufacturing 3112 Grain & Oilseed Milling 311221 Wet Corn Milling
UTM spatial coordinates with NAD83 datum	17T 484346m E 4752320m N
Legal name of Canadian parent company	Ingredion Canada Corporation
Street and mailing address of parent company	1600 - 90 Burnhamthorpe Road West Mississauga, Ontario, L5B 0H9
Percentage ownership of facility	100

**Toxic Substance Plan Information**

Name and CAS numbers of toxic substance for this report	Sulphur Dioxide, CAS 7446-09-5
Name and CAS numbers of other substances created or used at facility	Hydrochloric Acid, CAS 7647-01-0 Carbon Monoxide, CAS 630-08-0 Hydrogen Sulphide, CAS 7783-06-4 Total Reduced Sulphur, CAS NA-M14 Nitrogen oxides (expressed as NO2), CAS 11104-93-1 Phosphorus (total), CAS NA-22 Total Particulate, CAS NA-M08 PM10 - Particulate <= 10 micron, CAS NA-M09 PM2.5 Particulate <= 2.5 micron, CAS NA-M10 Ammonia CAS NA-16 Sulphuric Acid, CAS 7669-93-9
Date of most recent plan	November 27th, 2013
Objectives of plan, and targets	Ingredion has a long history of safe and responsible use of combustion fuels and process operations in London. This site has already invested significant resources to reduce excess usage of combustion fuels and process operations that create and emit particulates. Through this plan, Ingredion is committed to reducing excess usage of equipment that create and emit particulates. This will be accomplished by assessing potential reductions through material or feedstock substitution, product design or reformulation, equipment or process modification, spill and leak prevention, on-site reuse or recycling, improved inventory management or purchasing techniques, and training or improved operating procedures.
Summarize any amendments to the plan	No plan amendments have been made.

**2019 Annual Public Reporting for Toxic Substances  
Sulphur Dioxide**

Summarize the steps taken during the reporting period towards achieving the objectives of the plan	Steps as described in the plan were implemented in previous years.
Summarize the effectiveness of the steps taken during the reporting period	Options and steps in the plan were implemented in previous years.
Review implementation progress and timelines set out in the plan	Options and steps in the plan were implemented in previous years.
Summarize actions taken in this reporting year that were additional to the steps described in the plan	There were no additional actions taken for the 2019 reporting year

**Annual Reporting Metrics**

Sulphur Dioxide	Tonne or Range		On-site Releases, tonne			Disposals, tonne		Off-Site Recycled, tonne
	Used	Created	Air	Land	Water	On-Site	Off-Site	
Previous Year	0	100-1000	177.6	0	0	0	0	0
Current Year	0	100-1000	173.8	0	0	0	0	0
Difference	0	-1-10	-3.8	0	0	0	0	0
Percent Difference	0%	-1-10%	-2.14%	0%	0%	0%	0%	0%
Reductions in plan	0	0	0	0	0	0	0	0
Reductions outside plan	0	1-10%	3.7	0	0	0	0	0
Total Reductions	0	1-10%	3.8	0	0	0	0	0
Percent Reductions	0	1-10%	2%	0	0	0	0	0
Rationale for changes	no significant change							

**Certification**

As of August 1, 2020, I, Gene Ryan, certify that I have read the report on the toxic substance reduction plan for the toxic substance referred to below and am familiar with its contents, and to my knowledge the information contained in the report is factually accurate and the report complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

Sulphur Dioxide

  
Gene Ryan, Acting Plant Manager

**2019 Annual Public Reporting for Toxic Substances**  
**Total Particulates, Particulates <= 10 micron, Particulates <=2.5 micron**

**Facility and Contact Information**

Facility NPRI No.	485
Facility MOE No. if assigned	8407
Company legal and trade names of owner and operator of the facility	Ingredion Canada Corporation
Facility street and mailing address	1100 Green Valley Road London, Ontario Canada N6N 1E3
Name, position, telephone no. of facility public contact	Gene Ryan Acting Plant Manager 519-686-3160
No. of full-time employee equivalent	106
2, 4, and 6 digit NAICS Codes	31-33 Manufacturing 3112 Grain & Oilseed Milling 311221 Wet Corn Milling
UTM spatial coordinates with NAD83 datum	17T 484346m E 4752320m N
Legal name of Canadian parent company	Ingredion Canada Corporation
Street and mailing address of parent company	1600 - 90 Burnhamthorpe Road West Mississauga, Ontario, L5B 0H9
Percentage ownership of facility	100

**Toxic Substance Plan Information**

Name and CAS numbers of toxic substance for this report	Total Particulate, CAS NA-M08 PM10 - Particulate <= 10 micron, CAS NA-M09 PM2.5 Particulate <= 2.5 micron, CAS NA-M10
Name and CAS numbers of other substances created or used at facility	Hydrochloric Acid, CAS 7647-01-0 Hydrogen Sulphide, CAS 7783-06-4 Total Reduced Sulphur, CAS NA-M14 Sulphur Dioxide, CAS 7446-09-5 Carbon Monoxide, CAS 630-08-0 Nitrogen oxides (expressed as NO2), CAS 11104-93-1 Phosphorus (total), CAS NA-22 Ammonia CAS NA-16 Acid, CAS 7669-93-9 <span style="float: right;">Sulphuric</span>
Date of most recent plan	November 20th, 2013
Objectives of plan, and targets	Ingredion has a long history of safe and responsible use of combustion fuels and process operations in London. This site has already invested significant resources to reduce excess usage of combustion fuels and process operations that create and emit particulates. Through this plan, Ingredion is committed to reducing excess usage of equipment that create and emit particulates. This will be accomplished by assessing potential reductions through material or feedstock substitution, product design or reformulation, equipment or process modification, spill and leak prevention, on-site reuse or recycling, improved inventory management or purchasing techniques, and training or improved operating procedures.
Summarize any amendments to the plan	No plan amendments have been made.
Summarize the steps taken during the reporting period towards achieving the objectives of the plan	Steps as described in the plan were implemented in previous years.
Summarize the effectiveness of the steps taken during the reporting period	Options and steps in the plan were implemented in previous years.
Review implementation progress and timelines set out in the plan	Options and steps in the plan were implemented in previous years.
Summarize actions taken in this reporting year that were additional to the steps described in the plan	There were no additional actions taken for the 2019 reporting year

**2019 Annual Public Reporting for Toxic Substances**  
**Total Particulates, Particulates <= 10 micron, Particulates <=2.5 micron**

**Annual Reporting Metrics**

PMT -- Total Particulates	Tonne or Range		On-site Releases, tonne			Disposals, tonne		Off-Site Recycled, tonne
	Used	Created	Air	Land	Water	On-Site	Off-Site	
Previous Year	0	10-100	54.09	0	0	0	0	0
Current Year	0	10-100	54.1	0	0	0	0	0
Difference	0	-0-1	0.01	0	0	0	0	0
Percent Difference	0%	-1-10%	0%	0%	0%	0%	0%	0%
Reductions in plan	0	0	0	0	0	0	0	0
Reductions outside plan	0	0-1	-0.01	0	0	0	0	0
Total Reductions	0	0-1	-0.01	0	0	0	0	0
Percent Reductions	0%	0-1%	0%	0%	0%	0%	0%	0%
Rationale for changes	No significant Change							

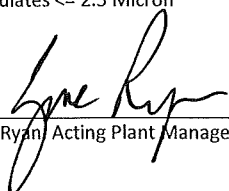
PM10 -- Particulates <= 10 micron	Tonne or Range		On-site Releases, tonne			Disposals, tonne		Off-Site Recycled, tonne
	Used	Created	Air	Land	Water	On-Site	Off-Site	
Previous Year	0	10-100	54.09	0	0	0	0	0
Current Year	0	10-100	54.1	0	0	0	0	0
Difference	0	-0-1	0.01	0	0	0	0	0
Percent Difference	0%	-1-10%	0%	0%	0%	0%	0%	0%
Reductions in plan	0	0	0	0	0	0	0	0
Reductions outside plan	0	0-1	-0.01	0	0	0	0	0
Total Reductions	0	0-1	-0.01	0	0	0	0	0
Percent Reductions	0%	0-1%	0%	0%	0%	0%	0%	0%
Rationale for changes	No significant Change							

PM2.5 -- Particulates <= 2.5 micron	Tonne or Range		On-site Releases, tonne			Disposals, tonne		Off-Site Recycled, tonne
	Used	Created	Air	Land	Water	On-Site	Off-Site	
Previous Year	0	10-100	54.09	0	0	0	0	0
Current Year	0	10-100	54.1	0	0	0	0	0
Difference	0	-0-1	0.01	0	0	0	0	0
Percent Difference	0%	-1-10%	0%	0%	0%	0%	0%	0%
Reductions in plan	0	0	0	0	0	0	0	0
Reductions outside plan	0	0-1	-0.01	0	0	0	0	0
Total Reductions	0	0-1	-0.01	0	0	0	0	0
Percent Reductions	0%	0-1%	0%	0%	0%	0%	0%	0%
Rationale for changes	No significant Change							

**Certification**

As of August 1, 2020, I, Gene Ryan, certify that I have read the report on the toxic substance reduction plan for the toxic substance referred to below and am familiar with its contents, and to my knowledge the information contained in the report is factually accurate and the report complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

Total Particulates  
 Particulates <= 10 Micron  
 Particulates <= 2.5 Micron

  
 Gene Ryan, Acting Plant Manager



**2019 Annual Public Reporting for Toxic Substances  
Phosphorus (Total)**

**Facility and Contact Information**

Facility NPRI No.	485
Facility MOE No. if assigned	8407
Company legal and trade names of owner and operator of the facility	Ingredion Canada Corporation
Facility street and mailing address	1100 Green Valley Road London, Ontario Canada N6N 1E3
Name, position, telephone no. of facility public contact	Gene Ryan Acting Plant Manager 519-686-3160
No. of full-time employee equivalent	106
2, 4, and 6 digit NAICS Codes	31-33 Manufacturing 3112 Grain & Oilseed Milling 311221 Wet Corn Milling
UTM spatial coordinates with NAD83 datum	17T 484346m E 4752320m N
Legal name of Canadian parent company	Ingredion Canada Corporation
Street and mailing address of parent company	1600 - 90 Burnhamthorpe Road West Mississauga, Ontario, L5B 0H9
Percentage ownership of facility	100

**Toxic Substance Plan Information**

Name and CAS numbers of toxic substance for this report	Phosphorus (Total), CAS NA-22
Name and CAS numbers of other substances created or used at facility	Hydrochloric Acid, CAS 7647-01-0 Sulphur Dioxide, CAS 7446-09-5 Hydrogen Sulphide, CAS 7783-06-4 Total Reduced Sulphur, CAS NA-M14 Carbon Monoxide, CAS 630-08-0 Nitrogen oxides (expressed as NO <sub>2</sub> ), CAS 11104-93-1 Total Particulate, CAS NA-M08 PM10 - Particulate <= 10 micron, CAS NA-M09 PM2.5 Particulate <= 2.5 micron, CAS NA-M10 Ammonia CAS NA-16 Acid, CAS 7669-93-9 Sulphuric
Date of most recent plan	November 11th, 2013
Objectives of plan, and targets	Ingredion's main business is producing valuable products from corn, and has already invested significant resources to reduce waste or excess usage of corn containing phosphorus. Through this plan, Ingredion is committed to reducing excess usage of phosphorus. This will be accomplished by assessing potential reductions through material or feedstock substitution, product design or reformulation, equipment or process modification, spill and leak prevention, on-site reuse or recycling, improved inventory management or purchasing techniques, and training or improved operating procedures.
Summarize any amendments to the plan	No plan amendments have been made.
Summarize the steps taken during the reporting period towards achieving the objectives of the plan	Steps as described in the plan were implemented in previous years.
Summarize the effectiveness of the steps taken during the reporting period	Options and steps in the plan were implemented in previous years.
Review implementation progress and timelines set out in the plan	Options and steps in the plan were implemented in previous years.
Summarize actions taken in this reporting year that were additional to the steps described in the plan	There were no additional actions taken for the 2019 reporting year

**2019 Annual Public Reporting for Toxic Substances  
Phosphorus (Total)**

**Annual Reporting Metrics**

Phosphorus (Total)	Tonne or Range			On-site Releases, tonne			Disposals, tonne		Off-Site Recycled, tonne
	Used	Created	In Product	Air	Land	Water	On-Site	Off-Site	
Previous Year	1000-10000	0	1000-10000	0.189	0	0	0	53.8	0
Current Year	1000-10000	0	1000-10000	0.191	0	0	0	83.2	0
Difference	10-100	0	100-1000	0.002	0	0	0	29.4	0
Percent Difference	0-1%	0%	10-100%	1%	0%	0%	0%	35%	0%
Reductions in plan	0	0	0	0	0	0	0	0	0
Reductions outside plan	0	0	0	-0.002	0	0	0	-29.4	0
Total Reductions	-10-100	0	-100-1000	-0.002	0	0	0	-29.4	0
Percent Reductions	-0-1%	0%	-10-100%	-1%	0%	0%	0%	-35%	0%
Rationale for changes	Crop conditions will influence the amount of Phosphorous in the process and disposed.								

**Certification**

As of August 1, 2020, I, Gene Ryan, certify that I have read the report on the toxic substance reduction plan for the toxic substance referred to below and am familiar with its contents, and to my knowledge the information contained in the report is factually accurate and the report complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

Phosphorus (Total)



Gene Ryan, Acting Plant Manager

**2019 Annual Public Reporting for Toxic Substances  
Ammonia (Total)**

**Facility and Contact Information**

Facility NPRI No.	485
Facility MOE No. if assigned	8407
Company legal and trade names of owner and operator of the facility	Ingredion Canada Corporation
Facility street/ mailing address	1100 Green Valley Road London, Ontario Canada N6N 1E3
Name, position, tel no. of facility public contact	Gene Ryan Acting Plant Manager 519-686-3160
No. of full-time employee equivalent	106
2, 4, and 6 digit NAICS Codes	31-33 Manufacturing 3112 Grain & Oilseed Milling 311221 Wet Corn Milling
UTM spatial coordinates with NAD83 datum	17T 643133 E; 4753725 N
Legal name of Canadian parent company	Ingredion Canada Corporation
Street and mailing address of parent company	1600 - 90 Burnhamthorpe Road West Mississauga, Ontario, L5B 0H9
Percentage ownership of facility	100

**Toxic Substance Plan Information**

Name and CAS numbers of toxic substance for this report	Ammonia (Total), CAS NA-16
Name and CAS No's of other toxic substances for which plans have been prepared at the facility	Hydrochloric Acid, CAS 7647-01-0 Phosphorus (Total), CAS NA-22 Hydrogen Sulphide, CAS 7783-06-4 Total Reduced Sulphur, CAS NA-M14 Carbon Monoxide, CAS 630-08-0 Nitrogen Oxides (expressed as NO <sub>2</sub> ), CAS 11104-93-1 Sulfur Dioxide, CAS 7446-09-5 Total Particulate, CAS NA-M08 PM10 - Particulate <= 10 micron, CAS NA-M09 PM2.5 Particulate <= 2.5 micron, CAS NA-M10 Sulphuric Acid, CAS 7669-93-9
Date of most recent plan	December 06th, 2013
Objectives of plan, and targets	Ingredion's main business is producing valuable products from corn, and has already invested significant resources to reduce waste and excess chemical usage. Through this plan, Ingredion is committed to reducing excess creation of ammonia. This will be accomplished by assessing potential reductions through material or feedstock substitution, product design or reformulation, equipment or process modification, spill and leak prevention, on-site reuse or recycling, improved inventory management or purchasing techniques, and training or improved operating procedures.
Summarize any amendmendments to the plan	No plan ammendments have been made.
Summarize the steps taken during the reporting period towards achieving the objectives of the plan	Steps as described in the plan were implemented in previous years.
Summarize the effectiveness of the steps taken during the reporting period	Options and steps in the plan were implemented in previous years.

**2019 Annual Public Reporting for Toxic Substances  
Ammonia (Total)**

Review implementation progress and timelines set out in the plan	Options and steps in the plan were implemented in previous years.
Summarize actions taken in this reporting year that were additional to the steps described in the plan	There were no additional actions taken for the 2019 reporting year


**Annual Reporting Metrics**

Ammonia (Total)	Tonne or Range			On-site Releases, tonne			Disposals, tonne		Off-Site Recycled, tonne
	Used	Created	In Product	Air	Land	Water	On-Site	Off-Site	
Previous Year	0	100-1000	0	3.08	0	0	0	3.05	0
Current Year	0	100-1,000	0	2.86	0	0	0	20.30	0
Difference	0	-1-10	0	-0.22	0	0	0	17.25	0
Percent Difference	0%	-1-10%	0%	-7%	0%	0%	0%	509%	0%
Reductions in plan	0	0	0	0	0	0	0	0	0
Reductions outside plan	0	1-10	0	0	0	0	0	0.00	0
Total Reductions	0	1-10%	0	0.22	0	0	0	-17.25	0
Percent Reductions	0	1-10%	0	7%	0	0	0	-509%	0
Rationale for changes	Crop conditions will influence the amount of ammonia in process								

**Certification**

As of August 1, 2020, I, Gene Ryan, certify that I have read the report on the toxic substance reduction plan for the toxic substance referred to below and am familiar with its contents, and to my knowledge the information contained in the report is factually accurate and the report complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

Ammonia (Total)

  
Gene Ryan, Acting Plant Manager

**2019 Annual Public Reporting for Toxic Substances  
Hydrogen Sulphide and Total Reduced Sulphur**

**Facility and Contact Information**

Facility NPRI No.	485
Facility MOE No. if assigned	8407
Company legal and trade names of owner and operator of the facility	Ingredion Canada Corporation
Facility street and mailing address	1100 Green Valley Road London, Ontario Canada N6N 1E3
Name, position, telephone no. of facility public contact	Gene Ryan Acting Plant Manager 519-686-3160
No. of full-time employee equivalent	106
2, 4, and 6 digit NAICS Codes	31-33 Manufacturing 3112 Grain & Oilseed Milling 311221 Wet Corn Milling
UTM spatial coordinates with NAD83 datum	17T 484346m E 4752320m N
Legal name of Canadian parent company	Ingredion Canada Corporation
Street and mailing address of parent company	1600 - 90 Burnhamthorpe Road West Mississauga, Ontario, L5B 0H9
Percentage ownership of facility	100

**Toxic Substance Plan Information**

Name and CAS numbers of toxic substance for this report	Hydrogen Sulphide CAS 7783-06-4 Total Reduced Sulphur, CAS NA-M14
Name and CAS No's of other toxic substances for which plans have been prepared at the facility	Hydrochloric Acid, CAS 7647-01-0 Carbon Monoxide, CAS 630-08-0 Nitrogen oxides (expressed as NO <sub>2</sub> ), CAS 11104-93-1 Sulphur Dioxide, CAS 7446-09-5 Phosphorus (total), CAS NA-22 Total Particulate, CAS NA-M08 PM10 - Particulate <= 10 micron, CAS NA-M09 PM2.5 Particulate <= 2.5 micron, CAS NA-M10 Ammonia CAS NA-16 Sulphuric Acid, CAS 7669-93-9
Date of most recent plan	December 06th, 2013
Objectives of plan, and targets	Ingredion's main business is producing valuable products from corn, and has already invested significant resources to reduce waste and excess chemical usage. Through this plan, Ingredion is committed to reducing excess creation of H <sub>2</sub> S and TRS. This will be accomplished by assessing potential reductions through material or feedstock substitution, product design or reformulation, equipment or process modification, spill and leak prevention, on-site reuse or recycling, improved inventory management or purchasing techniques, and training or improved operating procedures.
Summarize any amendments to the plan	No plans amendments have been made
Summarize the steps taken during the reporting period towards achieving the objectives of the plan	Steps as described in the plan were implemented in previous years.
Summarize the effectiveness of the steps taken during the reporting period	Options and steps in the plan were implemented in previous years.
Review implementation progress and timelines set out in the plan	Options and steps in the plan were implemented in previous years.

**2019 Annual Public Reporting for Toxic Substances  
Hydrogen Sulphide and Total Reduced Sulphur**

Summarize actions taken in this reporting year that were additional to the steps described in the plan	There were no additional actions taken for the 2019 reporting year
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**Annual Reporting Metrics**

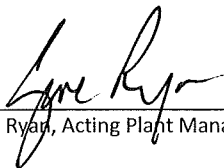
Hydrogen Sulphide	Tonne or Range		On-site Releases, tonne			Disposals, tonne		Off-Site Recycled, tonne
	Used	Created	Air	Land	Water	On-Site	Off-Site	
Previous Year	0	10-100	0.84	0	0	0	0	0
Current Year	0	10-100	0.8	0	0	0	0	0
Difference	0	-1-10	-0.04	0	0	0	0	0
Percent Difference	0%	-1-10%	-5%	0%	0%	0%	0%	0%
Reductions in plan	0	0	0	0	0	0	0	0
Reductions outside plan	0	0-10	0.04	0	0	0	0	0
Total Reductions	0	0-10	0.04	0	0	0	0	0
Percent Reductions	0	0-10%	5%	0	0	0	0	0
Rationale for changes	No significant change							

Total Reduced Sulphur	Tonne or Range		On-site Releases, tonne			Disposals, tonne		Off-Site Recycled, tonne
	Used	Created	Air	Land	Water	On-Site	Off-Site	
Previous Year	0	10-100	0.84	0	0	0	0	0
Current Year	0	10-100	0.8	0	0	0	0	0
Difference	0	-1-10	-0.04	0	0	0	0	0
Percent Difference	0%	-1-10%	-5%	0%	0%	0%	0%	0%
Reductions in plan	0	0	0	0	0	0	0	0
Reductions outside plan	0	0-10	0.04	0	0	0	0	0
Total Reductions	0	0-10	0.04	0	0	0	0	0
Percent Reductions	0	0-10%	5%	0	0	0	0	0
Rationale for changes	No significant change							

**Certification**

As of August 1, 2020, I, Gene Ryan, certify that I have read the report on the toxic substance reduction plan for the toxic substance referred to below and am familiar with its contents, and to my knowledge the information contained in the report is factually accurate and the report complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

Hydrogen Sulphide  
Total Reduced Sulphur



Gene Ryan, Acting Plant Manager

**2019 Annual Public Reporting for Toxic Substances  
Carbon Monoxide and Nitrogen Oxides**

**Facility and Contact Information**

Facility NPRI No.	485
Facility MOE No. if assigned	8407
Company legal and trade names of owner and operator of the facility	Ingredion Canada Corporation
Facility street and mailing address	1100 Green Valley Road London, Ontario Canada N6N 1E3
Name, position, telephone no. of facility public contact	Gene Ryan Acting Plant Manager 519-686-3160
No. of full-time employee equivalent	106
2, 4, and 6 digit NAICS Codes	31-33 Manufacturing 3112 Grain & Oilseed Milling 311221 Wet Corn Milling
UTM spatial coordinates with NAD83 datum	17T 484346m E 4752320m N
Legal name of Canadian parent company	Ingredion Canada Corporation
Street and mailing address of parent company	1600 - 90 Burnhamthorpe Road West Mississauga, Ontario, L5B 0H9
Percentage ownership of facility	100

**Toxic Substance Plan Information**

Name and CAS numbers of toxic substance for this report	Carbon Monoxide, CAS 630-08-0 Nitrogen Oxides (expressed as NO <sub>2</sub> ), CAS 11104-93-1
Name and CAS numbers of other substances created or used at facility	Hydrochloric Acid, CAS 7647-01-0 Hydrogen Sulfide, CAS 7783-06-4 Total Reduced Sulphur, CAS NA-M14 Sulphur Dioxide, CAS 7446-09-5 Phosphorus (total), CAS NA-22 Total Particulate, CAS NA-M08 PM10 - Particulate <= 10 micron, CAS NA-M09 PM2.5 Particulate <= 2.5 micron, CAS NA-M10 Ammonia CAS NA-16 Sulphuric Acid, CAS 7669-93-9
Date of most recent plan	October 30th, 2013
Objectives of plan, and targets	Ingredion has a long history of safe and responsible use of combustion fuels in London, and has already invested significant resources to reduce excess usage of fuels that, when combusted, create and emit toxic substances including CO and NO <sub>2</sub> . Through this plan, Ingredion is committed to reducing excess usage of fuels that create CO and NO <sub>2</sub> . This will be accomplished by assessing potential reductions through material or feedstock substitution, product design or reformulation, equipment or process modification, spill and leak prevention, on-site reuse or recycling, improved inventory management or purchasing techniques, and training or improved operating procedures.
Summarize any amendments to the plan	No plan amendments have been made.
Summarize the steps taken during the reporting period towards achieving the objectives of the plan	Steps as described in the plan were implemented in previous years.
Summarize the effectiveness of the steps taken during the reporting period	Options and steps in the plan were implemented in previous years.
Review implementation progress and timelines set out in the plan	Options and steps in the plan were implemented in previous years.

**2019 Annual Public Reporting for Toxic Substances  
Carbon Monoxide and Nitrogen Oxides**

Summarize actions taken in this reporting year that were additional to the steps described in the plan	There were no additional actions taken for the 2019 reporting year
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**Annual Reporting Metrics**

Carbon Monoxide (CO)	Tonne or Range		On-site Releases, tonne			Disposals, tonne		Off-Site Recycled, tonne
	Used	Created	Air	Land	Water	On-Site	Off-Site	
Previous Year **	0	10-100	80.80	0	0	0	0	0
Current Year **	0	10-100	82.20	0	0	0	0	0
Difference	0	1-10	1.40	0	0	0	0	0
Percent Difference	0%	1-10%	2%	0%	0%	0%	0%	0%
Reductions in plan	0	0	0	0	0	0	0	0
Reductions outside plan	0	0	0	0	0	0	0	0
Total Reductions	0	0	-1.4	0	0	0	0	0
Percent Reductions	0	0	-2%	0	0	0	0	0
Rationale for changes	No significant change							

Nitrogen Oxides (expressed as NO2)	Tonne or Range		On-site Releases, tonne			Disposals, tonne		Off-Site Recycled, tonne
	Used	Created	Air	Land	Water	On-Site	Off-Site	
Previous Year	0	100-1000	418.80	0	0	0	0	0
Current Year	0	100-1000	427.60	0	0	0	0	0
Difference	0	1-10	8.8	0	0	0	0	0
Percent Difference	0%	1-10%	2%	0%	0%	0%	0%	0%
Reductions in plan	0	0	0	0	0	0	0	0
Reductions outside plan	0	0	-8.8	0	0	0	0	0
Total Reductions	0	0	-8.8	0	0	0	0	0
Percent Reductions	0%	0%	-2%	0%	0%	0%	0%	0%
Rationale for changes	No significant change							

**Certification**

As of August 1, 2020, I, Gene Ryan, certify that I have read the report on the toxic substance reduction plan for the toxic substance referred to below and am familiar with its contents, and to my knowledge the information contained in the report is factually accurate and the report complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

Carbon Monoxide  
Nitrogen Oxides (expressed as NO2)



Gene Ryan, Acting Plant Manager



**2019 Annual Public Reporting for Toxic Substances  
HCl**

**Facility and Contact Information**

Facility NPRI No.	485
Facility MOE No. if assigned	8407
Company legal and trade names of owner and operator of the facility	Ingredion Canada Corporation
Facility street and mailing address	1100 Green Valley Road London, Ontario Canada N6N 1E3
Name, position, telephone no. of facility public contact	Gene Ryan Acting Plant Manager 519-686-3160
No. of full-time employee equivalent	106
2, 4, and 6 digit NAICS Codes	31-33 Manufacturing 3112 Grain & Oilseed Milling 311221 Wet Corn Milling
UTM spatial coordinates with NAD83 datum	17T 484346m E 4752320m N
Legal name of Canadian parent company	Ingredion Canada Corporation
Street and mailing address of parent company	1600 - 90 Burnhamthorpe Road West Mississauga, Ontario, L5B 0H9
Percentage ownership of facility	100

**Toxic Substance Plan Information**

Name and CAS numbers of toxic substance for this report	Hydrochloric acid CAS 7647-01-0
Name and CAS numbers of other substances created or used at facility	Carbon Monoxide, CAS 630-08-0 Nitrogen Oxides (expressed as NO <sub>2</sub> ), CAS 11104-93-1 Hydrogen Sulphide, CAS 7783-06-4 Total Reduced Sulphur, CAS NA-M14 Sulphur Dioxide, CAS 7446-09-5 Phosphorus (total), CAS NA-22 Total Particulate, CAS NA-M08 PM10 - Particulate <= 10 micron, CAS NA-M09 PM2.5 Particulate <= 2.5 micron, CAS NA-M10 CAS NA-16 CAS 7669-93-9 Ammonia Sulphuric Acid,
Date of most recent plan	December 17th, 2012
Objectives of plan, and targets	Ingredion Canada Incorporated has a long history of safe and responsible use of hazardous materials in London, and has already invested significant resources to reduce the use of toxic and hazardous materials including HCl. Going forward, Ingredion Canada Incorporated is committed to reducing the amount of HCl used. This will be accomplished by assessing potential reductions through material or feedstock substitution, product design or reformulation, equipment or process modification, spill and leak prevention, on-site reuse or recycling, improved inventory management or purchasing techniques, and training or improved operating procedures.
Summarize any amendments to the plan	No plan amendments have been made.
Summarize the steps taken during the reporting period towards achieving the objectives of the plan	Steps as described in the plan were implemented in previous years.
Summarize the effectiveness of the steps taken during the reporting period	Options and steps in the plan were implemented in previous years.
Review implementation progress and timelines set out in the plan	Options and steps in the plan were implemented in previous years.
Summarize actions taken in this reporting year that were additional to the steps described in the plan	There were no additional actions taken for the 2019 reporting year

2019 Annual Public Reporting for Toxic Substances

HCI

Annual Reporting Metrics

HCI	Tonne or Range			On-site Releases, tonne			Disposals, tonne		Off-Site Recycled, tonne
	Used	Created	In Product	Air	Land	Water	On-Site	Off-Site	
Previous Year	1000-10000	0	0	1.80	0	0	0	0	0
Current Year	1000-10000	0	0	1.70	0	0	0	0	0
Difference	10-100	0	0	-0.10	0	0	0	0	0
Percent Difference	1-10%	0%	0%	-6%	0%	0%	0%	0%	0%
Reductions in plan	0	0	0	0	0	0	0	0	0
Reductions outside plan	0	0	0	0	0	0	0	0	0
Total Reductions	-1-10	0	0	0.1	0	0	0	0	0
Percent Reductions	-1-10%	0%	0%	6%	0%	0%	0%	0%	0%
Rationale for changes	no significant change								

Certification

As of August 1, 2020, I, Gene Ryan, certify that I have read the report on the toxic substance reduction plan for the toxic substance referred to below and am familiar with its contents, and to my knowledge the information contained in the report is factually accurate and the report complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

HCI



Gene Ryan, Acting Plant Manager