

# Summary Letter as required under Toxics Reduction Act and Ontario Regulation 455/09

## **Integrated Grain Processors Co-operative Incorporated - IGPC Ethanol**

**NPRI ID:** 11696 89 Progress Drive

Aylmer, ON N5H 2R9 Canada **Number of employees:** 83

#### **Contact Information**

Kevin Norton

Position: CEO - COO Phone: (519) 765-2575 Fax: (519) 765-2775 Email: knorton@igpc.ca

### **Geographical Coordinates**

**Latitude:** 42.7827 **Longitude:** -80.9813 **Datum:** 1983

#### **Standard Industrial Classifications**

NAICS 2 Code: 31-33 - Manufacturing
 NAICS 4 Code: 3251 - Basic Chemical Mfg.

• NAICS 6 Code: 325190 - Other Basic Organic Chemical Mfg.

## **Other Environmental Programs**

• G10478 - GHGRP

## **Substance Information (tonnes)**

Substance Name	CAS Number	Amount Entering Process	Amount Created	Amount Released to Air	Amount Disposed	Amount Recycled	Amount Contained in Product
Methanol	67-56-1	10 to 100	1 to 10	9.09	0	0	1 to 10
Sulphuric Acid	7664-93-9	1,000 to 10,000	0	0	0	0	0
Toluene	108-88-3	100 to 1,000	0	1.93	0	0	100 to 1,000
Benzene	71-43-2	10 to 100	0	0.15	0	0	10 to 100
Ethyl Alcohol	64-17-5	0	100,000 to 1,000,000	81.48	0	0	100,000 to 1,000,000
Ammonia	NA - 16	0	0	0	0	0	0
Nitrogen Oxides	11104-93-1	0	100 to 1000	146.42	0	0	0
Carbon Monoxide	630-08-0	0	100 to 1000	226.89	0	0	0
Particulate Matter (PM <sub>2.5</sub> )	NA – M10	0	10 to 100	48.49	0	0	0
Particulate Matter (PM <sub>10</sub> )	NA – M09	0	10 to 100	52.28	0	0	0



For comparison purposes, the following table provides a summary of the 2018 and 2019 TRA Accounting values.

# **Comparison of 2018 to 2019 Reportable TRA Substances (tonnes)**

Substance Name	Year	Amount Entering Process	Amount Created	Amount Released to Air	Amount Off-Site Disposal	Amount Contained in Product
Methanol 67-56-1	2018	1 to 10 1 to 10		7.42	0	1 to 10
	2019	10 to 100	1 to 10	9.09	0	1 to 10
	Change in % and Tonnes	Increase of 42.7% or 0.82 tonnes	Increase of 22.5% or 1.67 tonnes	Increase of 22.5% or 1.67 tonnes	N/A	Increase of 42.7% or 0.82 tonnes
	Rationale	Increased chemical usage due to production increase	Plant production increase	Plant expansion and production increase	N/A	Increased chemical usage
	was record production increased b facility expa	ed. In 2014, a decreas , the methanol air rele yy 3.11% in 2016. In 20 ansion and resultant ir	se of 0.23 tonnes or eases increased by 0 017, a decrease of 0 ncreased productio	014. In 2013, an increase of 0.048 to 4.73% of emission to air was record of tonnes. Also due to increased properties or 0.54% of emissions to n in 2018, the methanol air releases the anticipated reductions.	ded. Due to in roduction, me o air was recor	creased 2015 thanol air releases ded. Due to the
	2019	1,000 to 10,000	0	0	0	0
	2019	1,000 to 10,000 1,000 to 10,000	0	0	0	0
Sulphuric			-	-		
Sulphuric Acid 7664-93-9	2019 Change in % and	1,000 to 10,000 Increase of 51% or	0	0	0	0
Acid	2019 Change in % and Tonnes	1,000 to 10,000  Increase of 51% or 1,074 tonnes  Increased chemical usage due to production	0 N/A N/A	0 N/A	0 N/A	0 N/A
Acid	2019 Change in % and Tonnes	1,000 to 10,000  Increase of 51% or 1,074 tonnes  Increased chemical usage due to production	0 N/A N/A	0 N/A N/A	0 N/A	0 N/A
Acid	2019 Change in % and Tonnes Rationale	1,000 to 10,000  Increase of 51% or 1,074 tonnes  Increased chemical usage due to production increase	0 N/A N/A No plans to	0 N/A N/A o reduce Sulphuric Acid use.	0 N/A N/A	0 N/A N/A
Acid	2019 Change in % and Tonnes Rationale	1,000 to 10,000  Increase of 51% or 1,074 tonnes  Increased chemical usage due to production increase	0 N/A N/A No plans to	N/A  N/A  reduce Sulphuric Acid use.  0.89	0 N/A N/A	0 N/A N/A



Substance Name	Year	Amount Entering Process	Amount Created	Amount Released to Air	Amount Off-Site Disposal	Amount Contained in Product
Benzene	2018	10 to 100	0	0.08	0	10 to 100
	2019	10 to 100	0	0.15	0	10 to 100
	Change in	Increase of 71.4%	N/A	Increase of 105% or 0.08 tonnes	N/A	Increase of
	% and	or 24.7 tonnes				71.4% or 59.1
	Tonnes					tonnes
	Rationale	Increased		Updated truck loadout flare last	N/A	
71-43-2		chemical usage	N/A	containing information and an		Increased
		due to production		increase in annual hours of		production
		increase		operation.		
		ective of IGPC Ethanol n limits and.	Inc. to minimize th	e use of benzene containing denatu	ırants within p	roduct
	2010	_	100,000 to	72.42		100,000 to
	2018	0	1,000,000	72.43	0	1,000,000
	2019	0	100,000 to	01.40	0	100,000 to
	2019	0	1,000,000	81.48	U	1,000,000
Ethyl	Change in		Increase of 66%	Increase of 12.5% or 9.05		Increase of 66%
Alcohol	% and	N/A	or 115,727	tonnes	N/A	or 115,718
64-17-5	Tonnes		tonnes			tonnes
				Updated truck loadout flare last	N/A	
	Rationale	N/A	Increase in production	containing information and an		Increased
	1.00.01.01.0			increase in annual hours of		production
			<u> </u>	operation.		
	2010		i i	o reduce Ethyl Alcohol use.		
	2018	0	0	0	0	0
	2019	0	0	0	0	0
	Change in % and	N/A	N/A	N/A	N/A	N/A
	Tonnes	IN/A	IN/A	IN/A	IN/A	IN/A
	Torries				Eliminated	
	Rationale	Eliminated use of	N/A	N/A	use of	N/A
Ammonia NA - 16	a	ammonia	1077		ammonia	
	Installation of hose weights and improvement of loading process were to result in decrease of 1% or 0.003 tonnes in 2013. In 2013, IGPC attempted to implement toxic reduction plans and concurrently performed trial using enzymes, which eliminated use of ammonia during the trial period. The enzyme trial resulted in a 20% decrease in use of ammonia and 30% decrease in off-site transfers in 2013. In 2014, IGPC eliminated the use of ammonia. With the implementation of the aforementioned actions, IGPC surpasses the reduction plan targets. Since 2015, ammonia continues to be absent at the facility.					
	2018	0	100 to 1,000	134.83	0	0
	2019	0	100 to 1,000	146.42	0	0
	Change in	N/A	Increase of 9% or 11.6 tonnes.	Increase of 9% or 11.6 tonnes.	N/A	N/A
	% and					
Nitrogen	Tonnes		or 11.6 torines.			
Oxides			Increase in			
11104-93-1	Rationale	N/A	production and	Increase in production and	N/A	N/A
	Rationale	IN/A	natural gas	natural gas usage.	IN/A	IN/A
			usage.			



Substance Name	Year	Amount Entering Process	Amount Created	Amount Released to Air	Amount Off-Site Disposal	Amount Contained in Product		
Carbon Monoxide 630-08-0  2018 2019 Change in % and Tonnes Rationale	2018	0	100 to 1,000	196.54	0	0		
	2019	0	100 to 1,000	226.89	0	0		
	% and	% and N/A 15.4% o		Increase of 15.4% or 30.34 tonnes.	N/A	N/A		
	Rationale	N/A	Increase in production and natural gas usage.	Increase in production and natural gas usage.	N/A	N/A		
		No plans to reduce the creation of carbon monoxide.						
	2018	0	39.43	39.43	0	0		
	2019	0	48.49	48.49	0	0		
Particulate Matter (PM <sub>2.5</sub> ) NA-M10	Change in % and Tonnes	N/A	Increase of 23% or 9.06 tonnes.	Increase of 23% or 9.06 tonnes.	N/A	N/A		
	Rationale	N/A	Increase in production.	Increase in production.	N/A	N/A		
		No plans to reduce the creation of PM <sub>2.5</sub> .						
	2018	0	41.79	41.79	0	0		
	2019	0	52.28	52.28	0	0		
Particulate Matter (PM <sub>10</sub> ) NA-M09	Change in % and Tonnes	N/A	Increase of 25.1% or 10.49 tonnes.	Increase of 25.1% or 10.49 tonnes.	N/A	N/A		
	Rationale	N/A	Increase in production.	Increase in production.	N/A	N/A		
	No plans to reduce the creation of $PM_{10}$ .							



#### Certification

As of June 30, 2020, I, Kevin Norton certify that I have read the report on the toxic substance reduction plan for the toxic substances referred to above 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.

\*It should be noted that for the 2019 reporting year, due to the situation with the global coronavirus (COVID-19) pandemic, TRA has amended the deadline for 2019 reporting from June 1st, 2020 to July 31st, 2020.

Signed, in Aylmer, ON, on June 30, 2020

\*Signed version available at facility upon request

Kevin Norton, CEO-COO IGPC Ethanol Inc.