

## Annual Public TRA Summary Report- Plasti-Fab Kitchener Operational Comparison 2014-2015

### Basic Facility Information

Name & CAS of Substance	VOC(Pentane)	NA-M16
	Particulate Matter 2.5 (PM2.5)	NA-M10
Facility Identification and Site Address		
Company Name	Plasti-Fab Ltd	
Facility Name	Kitchener Manufacturing Plant	
Facility Address	Physical Address	Mailing Address
	1214 Union St. Kitchener, ON N2H 6K4	PO Box 1120, Kitchener, ON N2G 4G1
Spatial Coordinates of Facility	Zone 17 Easting: 541955 Northing: 4813389	UTM NAD83
Number of Employees	52	
NPRI ID	6891	
Ontario MOE ID number	7282	
Parent Company (PC) Information		
PC Name & Address	PFB Corporation	Publically traded - TSX
Primary North American Industrial Classification System Code (NAICS)	326140 Polystyrene foam product manufacturing	
Company Contact Information		
Facility Public Contact and Highest Ranking Employee	Tim Dillow	<i>Manufacturing Manager</i>
	<a href="mailto:tdillow@plastifab.com">tdillow@plastifab.com</a>	Phone: 519-571-1650 ext 380
Facility Technical Contact	John Brazzale, Technical Centre Manager	Box 88 802 McCool St. Crossfield, AB, T0M0S0
	<a href="mailto:jbrazzale@plastifab.com">jbrazzale@plastifab.com</a>	Phone: 403-946-6238

### STATEMENT OF INTENT

At PFB Corporation (parent company of Plasti-Fab Ltd.), we are concerned with the future of the planet and the effects that modern life styles may be having on climate change. PFB Corporation is committed to conducting our operations responsibly, mindful of the economic, environmental and social impacts of our operations. We have always placed environmental protection at the highest level of importance in our products, our processes and our practices. It is our intent to continue reducing our impacts on the environment that occur as a result of manufacturing energy saving insulation solutions for our customers.

Plasti-Fab Kitchener intends to implement the reduction options identified for VOC (Pentane) to reduce the overall usage and emissions by 2017. The creation of PM2.5 is a result of a specific operation within

the process as well as a product of combustion, at this time there is no intent to reduce this substance due to the lack of technically feasible options.

## **TOXIC SUBSTANCES**

Two (2) substances were required to be tracked, quantified and reported for under TRA – Phase 2 requirements for the 2012 operational year. These substances are VOC (Pentane) and Particulate Matter 2.5. Reporting completed to the Ministry of Environment under O.Reg. 455/09 through SWIM.

### ***VOC Summary***

VOC (Pentane) is contained in the resin material used to produce EPS foam insulation products for residential and commercial construction market and for consumers.

A plan has been initiated which involves purchase of new equipment which will facilitate the transition to alternate raw material (EPS Resin) which contains less VOC (Pentane) and therefore will reduce overall emissions of VOC (Pentane).

The new equipment project is scheduled for completion in 2016.

The estimated reduction of VOC (Pentane) is estimated to be 9.1% or 11.5 tonnes.

### ***Particulate Matter 2.5 Summary***

Particulate matter (PM2.5) is created by the combustion of natural gas for process steam production, general heating and during the foam cutting process. A strategy has been developed to improve the quality of emission data for this substance. There is no reduction strategies planned for this substance.

## **TRACKING AND QUANTIFICATIONS**

The method used to calculate the TRA quantifications was a mass balance approach based on production records and emission estimates and published AP-42 emission factors.

Table 1 is a summary of reported TRA quantities for the 2015 operational year. When compared to the last reported values there is no significant change in the use, creation or contained in product for either substance (VOC (Pentane) or PM2.5). Any small change identified is directly related to changes in production levels.

In the 2015 operational year, there were no out of the ordinary incidents or significant process changes at the facility.

Table 1: Comparison of Quantities Reported														
CAS	Substance	Description of Processes that Use or Create Substance	Reporting under NPRI Part	NPRI Threshold (tonnes)	2015 Used (tonnes)	Used 2014 (tonnes)	% Change	2015 Created (tonnes)	Created 2014 (tonnes)	% Change	2015 Releases - Air (tonnes)	2014 Releases - Air (tonnes)	% Change	Reason for Changes
NA-M16	VOC (Pentane)	Used as a formulation component	Part 1	10 (MPO)	>100 - 1000	>100 - 1000	-5%	0	0	0%	>10-100	>10-100	-5%	No significant change
NA-M10	PM2.5 - Particulate Matter	Foam Cutting and Supporting Operations	Part 4	0.3 (Release)	0	0	0%	>0-1	>0-1	-2%	>0-1	>0-1	-2%	No significant change

## **COMPARISON OF TRACKING AND QUANTIFICATION**

No changes were made in the quantification and tracking methodology from 2014 to 2015.

## **DESCRIPTION OF STEPS TAKEN TO ACHIEVE OBJECTIVE AND ASSESS EFFECTIVENESS**

There was no technologically feasible reduction strategy objectives identified for PM2.5 within the facility and as such there was no economic feasibility study completed for this substance.

The reduction strategy identified for the VOC (Pentane) substance requires an equipment modification that is scheduled for completion in 2016.

There are no objectives to track or reduction targets to evaluate for the 2015 operational year.

Table 2 provides a summary of the facility TRA changes and updates which took place in 2015.

Table 2: Changes in Quantifications, Quantities and Plan Updates 2015									
CAS	Substance	Quantification Method(s) Used	Change in Quantification Method Used	Rationale for Using Selected Method(s)	Incidents out of the Ordinary	Significant Process Change	Objectives, Descriptions, Targets	Actions	Amendments
NA-M16	VOC (Pentane)	Mass Balance/Emission Factors	No change	No site specific monitoring data available	No	No	No reduction options were identified to be both technically and economically feasible. Therefore, no options were chosen for implementation	None	None
NA-M10	PM2.5 - Particulate Matter	Mass Balance/Emission Factors	No change	No site specific monitoring data available	No	No	No reduction options were identified to be both technically and economically feasible. Therefore, no options were chosen for implementation.	None	None

## ON MOE TRA - Electronic Certification Statement

### Annual Report Certification Statement

As of 30/05/2016, I, Tim Dillow, certify that I have read the reports on the toxic substance reduction plans for the toxic substances referred to below and am familiar with their contents, and to my knowledge the information contained in the reports is factually accurate and the reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

### TRA Substance List

CAS RN	Substance Name
NA - M16	Volatile Organic Compounds (VOCs)
NA - M08	Total Particulate Matter

#### Company Name

Plasti-Fab Ltd.

#### Highest Ranking Employee

Tim Dillow

#### Report Submitted by

John Brazzale

#### Website address

I, the highest ranking employee, agree with the certification statement(s) above and acknowledge that by checking the box I am electronically signing the statement(s). I also acknowledge that by pressing the 'Submit Report(s)' button I am submitting the facility record(s)/report(s) for the identified facility to the Director under the Toxics Reduction Act, 2009. I also acknowledge that the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 provide the authority to the Director under the Act to make certain information as specified in subsection 27(5) of Ontario Regulation 455/09 available to the public.