2012 TOXIC SUBSTANCE REDUCTION PLAN SUMMARY

ALUMINUM OXIDE, PM2.5 & PM10

JOHNSON MATTHEY LTD.

INTRODUCTION

Johnson Matthey Precision Castings manufactures ferrous and non-ferrous precision investment castings on a jobbing basis ranging in cast weight from under 1 lb. to 200 lbs. Castings are sold into industries such as the oil and gas industry, food industry, mining, pump and valves, etc.

The manufacturing site in St. Catharines is approximately 40,000 square feet in size and consists of wax making, shelling, melting and pouring of metal into ceramic moulds, cut-off, grinding, cleaning and shipping. The St. Catharines site is certified to quality systems ISO 9001:2008 and environmental management systems (EMS) ISO 140001:2004. Both systems were recertified about mid-2012.

The St. Catharines site is part of a much larger international company with headquarters in England. Johnson Matthey worldwide including the St. Catharines site is a company very involved in sustainability, environmental and health and safety issues and improvements such as energy reduction programs, lighting initiatives, cost reductions, ergonomics, etc.

With respect to the Ontario Toxic Reduction Act our foundry has to report three substances, namely aluminum oxide, PM2.5 & PM10. The plan submitted shows the options available to optimize the use and creation of these three substances, however at this time there are no specific targets for reductions as we are governed by our customers in a jobbing environment who specify to us their ASTM metal standards. Nonetheless, we will continue to look for opportunities to reduce any waste from these substances that currently find their way into a stream other than complete recycling.

DESCRIPTION OF THE TOXIC SUBSTANCES

There are three Phase II toxic substances that require the development of a toxic substance reduction plan based on the criteria set out in the Toxics Reduction Act, 2009 and Ontario Regulation 455/09.

Aluminum Oxide CAS # 1344-28-1

- used in 10 different process at the facility
- has unique quantifications
- has unique direct and indirect cost estimates

Particulate Matter less than or equal to 10 microns (PM10) CAS # NA-M09

• created in 9 different process at the facility

Particulate Matter less than or equal to 2.5 microns (PM2.5) CAS # NA-M10

• created in 9 different process at the facility

Note: A separate plan is develop for each substance. PM10 and PM2.5 travel together through processes and many aspects of their individual plans are similar.

BASIC FACILITY INFORMATION

Facility Information and Site Ad	ldress			
Company Name	Johnson Matthey Ltd.			
Facility Name	Johnson Matthey Limited-Precision Castings			
	Physical Address	Mailing Addres	s	
Facility Address	16 Smith Street St. Catharines ON L2P 3J1	Same as physical	l address	
Spatial Coordinates of Facility	Latitude: 43.166871°Longitude: -79.216460° Easting: 644980.88 m E, Northing: 4780892.12 m N			
Number of Employees	58			
NPRI ID	5761			
Parent Company (PC) Information				
PC Name & Address	Johnson Matthey PLC			
	25 Farringdon Street, London, EC4A4AB			
Percent Ownership for PC	100 per cent			
Business Number	896266780			
Primary North American Industrial Classification System Code (NAICS)				
2 Digit NAICS	31 - 33 Manufacturing			
4 Digit NAICS	3315 - Foundries			
6 Digit NAICS	331514 - Steel Foundries			
Company Contact Information				
Facility Public Contact	Keith Neureuther, General Manager		Same address as facility	
	keith.neureuther@matthey.com			
	Phone: (905) 682-9258 ext 222			
	Fax: (905)·682·8222			
Facility Technical Contact	Keith Neureuther, General Manager Same addre		Same address as facility	
	keith.neureuther@matthey.com			
	Phone: (905) 682-9258 ext 222			
	Fax: (905)·682·8222			
Company Coordinator Contact	Keith Neureuther, General Manager		Same address as facility	
The grant of the control of the cont	keith.neureuther@matthey.co	-		
	Phone: (905) 682-9258 ext 222			
	Fax: (905)·682·8222			
Person who Prepared the Plan	Mihaela Draghici, Environme	ntal Coordinator	Address:	
Totalog Willo I Topolog Gillo I IIII	Envirovision Inc.		7-150 Jardin Drive,	
	mdraghici@envirovision-inc.	com	Concord, ON L4K 3P9	
	Phone: (905) 761-1783		Fax: (905) 761-6524	
Highest Ranking Employee	` '		Same address as facility	
	Phone: (905) 682-9258 ext 222			
	Fax: (905)·682·8222			
	1 (705) 002 0222			

Planner Information			
Planner Responsible for Making Recommendations	Mihaela Draghici Planner license Number: TSRP0131 mdraghici@envirovision-inc.com Phone: (905) 791-1783 Fax: (905) 761-1783	Address: Contact address: 7-150 Jardin Drive, Concord, Ontario	
Planer Responsible for Certification	Mihaela Draghici Planner license Number: TSRP0131 mdraghici@envirovision-inc.com Phone: (905) 791-1783 Fax: (905) 761-1783	Address: Contact address: 7-150 Jardin Drive, Concord, Ontario	

STATEMENT OF INTENT

Johnson Matthey Ltd. is committed to playing a leadership role in protecting the environment. Whenever feasible, we will continue to look for opportunities to reduce the use of aluminum oxide and creation of PM2.5 and PM10.

OBJECTIVES

We will continue to look for opportunities to reduce the use of aluminum oxide and creation of PM2.5 and PM10.

OPTIONS TO BE IMPLEMENTED (OR STATEMENT THAT NONE ARE TO BE IMPLEMENTED)

JML is committed to ongoing sustainability and cost efficiencies, and this along with acknowledging that all customers provide and specify ASTM alloys to us means at this time there are no additional options for the facility to implement.

STATEMENT THAT THE PLAN SUMMARY ACCURATELY REFLECTS THE PLAN

This plan summary accurately reflects the Toxic Substance Reduction Plans, dated September 17, 2013, prepared for the following substances: Aluminum Oxide, PM2.5 and PM10.

CERTIFICATION BY HIGHEST RANKING EMPLOYEE

As of September 17, 2013, I, Keith Neureuther, certify that I have read the toxic substance reduction plans for the toxic substances referred to below and am familiar with their contents, and to my knowledge the plans are factually accurate and comply with the *Toxics Reduction Act*, 2009 and Ontario Regulation 455/09 (General) made under that Act

[Aluminum Oxide]

[Particulate Matter less than or equal to 10 microns (PM10)] [Particulate Matter less than or equal to 2.5 microns (PM2.5)]

Keith Yeureuther, General Manager

Johnson Matthey Limited-Precision Castings (Highest Ranking Employee) September 17, 2013

Date

CERTIFICATION BY LICENSED PLANNER

As of September 17, 2013, I, Mihaela Draghici, certify that I am familiar with the processes at Johnson Matthey Limited-Precision Castings that use or create the toxic substances referred to below, that I agree with the estimates referred to in subparagraphs 7 iii, iv and v of subsection 4 (1) of the *Toxics Reduction Act*, 2009 that are set out in the toxic substance reduction plans referred to below for the toxic substances and that the plans comply with that Act and Ontario Regulation 455/09 (General) made under that Act.

[Aluminum Oxide], September 17, 2013

[Particulate Matter less than or equal to 10 microns (PM10)], September 17, 2013 [Particulate Matter less than or equal to 2.5 microns (PM2.5)], September 17, 2013

Mihaela Draghici, Environmental Consultant TSRP0131

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Toxic Substance Reduction Planner

September 17, 2013

Date