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

Section 1: General Facility Information

Business Name:	ArcelorMittal Hamilton East
Street / Mailing Address:	690 Strathearne Avenue North Hamilton, Ontario L8H 7N8
% Ownership:	100%
Facility Name:	ArcelorMittal Hamilton East
Street / Mailing Address:	690 Strathearne Avenue North Hamilton, Ontario L8H 7NB
2 Digit, 4 Digit and 6 Digit NAICS ID:	33, 3312, 331222
NPRI ID:	4045
UTM Easting / UTM Northing:	598444 / 4790623
Number of Employees:	190
Public Contact:	Sandra Marie Cabral Director, Human Resources 690 Strathearne Avenue North Hamilton, Ontario L8H 7NB 905-528-9473 Ext. 6864 sandra.cabral@arcelormittal.com
Technical Contact:	Guillermo Jorquera Manager, Environment and Continous Improvement 690 Strathearne Avenue North Hamilton, Ontario L8H 7NB 905-528-9473 Ext. 6831 guillermo.jorquera@arcelormittal.com
Certifying Official:	Al Lindholm Director, Wire Group 690 Strathearne Avenue North

Hamilton, Ontario
L8H 7NB
905-528-9473 Ext. 6823
Al.Lindholm@arcelormittal.com

Highest Ranking Employee:

Al Lindholm
Director, Wire Group
690 Strathearne Avenue North
Hamilton, Ontario
L8H 7NB
905-528-9473 Ext. 6823
Al.Lindholm@arcelormittal.com

Section 2: Prescribed Toxic Substances On-Site

Four toxic substances were identified to be reported on a facility wide basis under O. Reg. 455/09 as identified in Table 1 below.

Table 1: Substances Reported on a Facility Wide Basis

Substance Name	CAS	Use (kg/yr)	Created by Process (kg/yr)	Destroyed by Process (kg/yr)	Contained in Products (kg/yr)	Total Releases to Air (kg/yr)	Disposals Off-Site (kg/yr)	Recycling Off-Site (kg/yr)
Manganese (and its compounds)	NA – 09	3,476,872	0	0	3,465,121	0.37	11,675	75.4
Zinc (and its compounds)	NA – 14	19,836	0	0	18,125	9.39	1,671	31
Lead (and its compounds)	NA – 08	19,931	0	0	18,262	51	24	1,595
Hydrochloric Acid	7647-01-0	910,285	0	685,976	0	1,421	288	222,600
Oxides of Nitrogen	11104-93-1	0	21,631	0	0	21,631	0	0
Particulate Matter <= 10 µm (PM_{10})	NA – M09	0	11,023	0	0	11,023	0	0
Particulate Matter <= 2.5 µm ($PM_{2.5}$)	NA – M10	0	7,488	0	0	7,488	0	0

For comparison purposes, the following table provides a summary of the 2014 and 2015 TRA Accounting values.

Table 2: 2014-2015 Comparison

Substance: Manganese (and its compounds)

CAS #: NA - 09

	2014	2015	Units	Change	Rationale for Change
Use	627,610	3,476,872	kg	454%	Reflects 457% increase in wire material purchases/usage as production input.
Created by Process	0.3000	0	kg	-100%	Correction to error in accounting methodology.
Destroyed by Process	0	0	kg	--	
Contained in Product	627,592	3,465,121	kg	452%	Reflects 457% increase in wire material purchases/usage as production input.
Annual Release (Air)	0.30	0.37	kg	22%	Reflects increased operating time of Oil Tempering Lines as well as a correction to accounting methodologies for the emissions from the Oil Tempering Lines.
Annual Disposal (Off-site)	17	11,675	kg	67388%	Large increase in quantity of Desmut residue disposal in 2015. From 0 kg in 2014 to 63,360 kg in 2015. This residue is estimated to contain approximately 17% manganese.
Annual Recycling (Off-site)	0	75.4	kg	--	Lead ash to diverted from disposal to off-site recycling contains approximately 0.13% manganese.

Substance: Zinc (and its compounds)

CAS #: NA - 14

	2014	2015	Units	Change	Rationale for Change
Use	14,497	19,836	kg	37%	Reflects 37% increase in the zinc-containing Bonderite product purchase/usage as production input from 2014 to 2015.
Created by Process	8.30	0	kg	-100%	Correction to error in accounting methodology.
Destroyed by Process	0	0	kg	--	
Contained in Product	14,482	18,125	kg	25%	Reflects 37% increase in the zinc-containing Bonderite product purchase/usage as production input from 2014 to 2015.
Annual Release (Air)	8.30	9.39	kg	13%	Reflects increased operating time of Oil Tempering Lines as well as a correction to accounting methodologies for the emissions from

					the Oil Tempering Lines.
Annual Disposal (Off-site)	15.3	1,671	kg	10823%	Large increase in quantity of Desmut residue disposal in 2015. From 0 kg in 2014 to 63,360 kg in 2015. This residue is estimated to contain approximately 1.2% zinc.
Annual Recycling (Off-site)	0	31	kg	--	Lead ash diverted from disposal to off-site recycling contains approximately 0.0053% zinc.

Substance: Lead (and its compounds)

CAS #: NA - 08

	2014	2015	Units	Change	Rationale for Change
Use	28,782	19,931	kg	-31%	Reflects 31% decrease in lead purchase/usage as production input from 2014 to 2015.
Created by Process	49	0	kg	-100%	Correction to error in accounting methodology.
Destroyed by Process	0	0	kg	--	
Contained in Product	28,415	18,262	kg	-36%	Reflects 31% decrease in lead purchase/usage as production input from 2014 to 2015.
Annual Release (Air)	49	51	kg	4%	
Annual Disposal (Off-site)	367	24	kg	-94%	Lead ash, which contains approximately 2.75% lead, was diverted from disposal to recycling in 2015.
Annual Recycling (Off-site)	0	1,595	kg	--	Lead ash, which contains approximately 2.75% lead, was diverted from disposal to recycling in 2015.

Substance: Hydrochloric Acid

CAS #: 7647-01-0

	2014	2015	Units	Change	Rationale for Change
Use	712,215	910,285	kg	28%	Reflects increased throughput tonnage for the metal cleaning line (36% increase from 2014 to 2015).

Created by Process	1,035	0	kg	-100%	Correction to error in accounting methodology.
Destroyed by Process	647,941	685,976	kg	6%	
Contained in Product	0	0	kg	--	
Annual Release (Air)	1,035	1,421	kg	37%	Emissions are estimated based on acid scrubber operating hours. There was a 37% increase in total operating hours for the acid scrubbers from 2014 to 2015, reflecting increased throughput for metal cleaning line.
Annual Disposal (Off-site)	4,413	288	kg	-93%	Partial diversion to recycling.
Annual Recycling (Off-site)	59,862	222,600	kg	272%	Reflects increased throughput tonnage for the metal cleaning line (36% increase from 2014 to 2015) and diversion from disposal to recycling.

Substance: Oxides of Nitrogen

CAS #: 11104-93-1

	2014	2015	Units	Change	Rationale for Change
Use	n/a	0	kg	n/a	Substance was not reportable in previous years. Increased natural gas consumption in 2015 resulted in emissions of oxides of nitrogen in excess of the Part 4 release-based threshold.
Created by Process	n/a	21,631	kg	n/a	
Annual Release (Air)	n/a	21,631	kg	n/a	

Substance: Particulate Matter <=10 µm (PM_{10})

CAS #: NA - M09

	2014	2015	Units	Change	Rationale for Change
Use	0	0	kg	--	
Created by Process	7,477	11,023	kg	47%	Reflects increased production and operating hours for drawing machines, oil tempering lines.
Annual Release (Air)	7,477	11,023	kg	47%	Reflects increased production and operating hours for drawing machines, oil tempering lines.

Substance: Particulate Matter <=2.5 µm ($PM_{2.5}$)

CAS #: NA - M10

	2014	2015	Units	Change	Rationale for Change
Use	0	0	kg	--	
Created by Process	5,102	7,488	kg	47%	Reflects increased production and operating hours for drawing machines, oil tempering lines.
Annual Release (Air)	5,102	7,488	kg	47%	Reflects increased production and operating hours for drawing machines, oil tempering lines.

Section 3: Certification by Highest Ranking Employee

As of May 31, 2016, I, Al Lindholm certify that I have read the report on the toxic substance tracking, accounting and reporting 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.

ArcelorMittal Hamilton East

Al Lindholm
Director, Wire Group