

Ontario Toxics Reduction Plan Summary
Public Disclosure – Yr. 2018

Facility Details

Facility Name: Circa Metals/Hydel
Address: 206 Great Gulf Drive, Vaughan, ON L4K 5W1
NPRI Identification Number: 11487
Two Digit NAICS Code: 31 – 33 – Manufacturing
Four Digit Naics Code: 3329 – Other Fabricated Metal Products Mfg.
Six Digit NAICS Code: 332999 – All Other Miscellaneous Fabricated Metal Products Mfg.
Number of Full-Time Employees: 75
UTM Spatial Co-ordinates: X(E): 621472; Y(N): 4849379; (43° 47' 15", - 79° 29' 25")

Parent Company Details

Legal Name of Parent Company: Circa Metals/Hydel
Address of Parent Company: 206 Great Gulf Drive, Vaughan, ON L4K 5W1
Percentage of facility Owned by Parent Company: 100 %

Public Contact at Facility

Name: Ken Fleming
Position: VP-Operations
Address: 206 Great Gulf Drive, Vaughan, ON L4K 5W1
Office Phone Number: (905) 669-5511, ext. 202

Facility Description

Circa Metals Hydel (Circa) produces electrical power transmission enclosures and accessories, such as meter boxes, masts, clamps and bus boxes, from various grades of hot and cold rolled and galvanized steel, aluminum and copper. Operations at the Vaughan plant include those typically associated with metal processing including: stamping, press braking, punching, notching, shearing, cutting, welding and assembly.

Substances Information

Seven substances, chromium (CAS # 7440-47-3, NA-04), hexavalent chromium (CAS # 18540-29-9, NA-19), copper (CAS # 7440-50-8, NA-06), lead (CAS # 7439-92-1, NA-08), manganese (CAS # 7439-96-5, NA-09), zinc (CAS # 7440-66-6, NA-14) and cobalt (CAS # 7440-48-4, NA-05) enter the facility as components of the steel and aluminum that are processed at Circa.

Substance Accounting Details

Process Type	Chromium (CAS # 7440-47-3, NA-04) (tonnes/yr)			Manganese (CAS # 7439-96-5, NA-09) (tonnes/yr)		
	2018	2017	Difference (%)	2018	2017	Difference (%)
Enters	>10 to 100	>10 to 100	-17.2	>10 to 100	>10 to 100	-7.2
Created	0	0		0	0	
Destroyed or Transformed	0	0		0	0	
Released, Transferred For Recycling	>1 to 10	>1 to 10	-44.0	>1 to 10	>1 to 10	-18.1
In product	>1 to 10	>10 to 100	-7.0	>10 to 100	>10 to 100	-5.3

Process Type	Lead (CAS # 7439-92-1, NA-08) (tonnes/yr)			Zinc (CAS # 7440-66-6, NA-14) (tonnes/yr)		
	2018	2017	Difference (%)	2018	2017	Difference (%)
Enters	>1 to 10	>1 to 10	-15.2	>10 to 100	>10 to 100	+2.6
Created	0	0		0	0	
Destroyed or Transformed	0	0		0	0	
Released, Transferred For Recycling	>0 to 1	>0 to 1	-24.7	>1 to 10	>1 to 10	12.4
In product	>1 to 10	>1 to 10	-14.4	>10 to 100	>10 to 100	+1.2

Process Type	Hexavalent Chromium (CAS # 18540-29-9, NA-19) (tonnes/yr)			Copper (CAS #7440-50-8, NA-06) (tonnes/yr)		
	2018	2017	Difference (%)	2018	2017	Difference (%)
Enters	>0 to 1	>0 to 1	+3.5	>10 to 100	>10 to 100	-0.33
Created	0	0		0	0	
Destroyed or Transformed	0	0		0	0	
Released, Transferred For Recycling	>0 to 1	>0 to 1	-13.7	>1 to 10	>1 to 10	-47.7
In product	>0 to 1	>0 to 1	+2.0	>10 to 100	>10 to 100	+7.9

Process Type	Cobalt (CAS # 7440-48-4, NA-05) (tonnes/yr)		
	2018	2017	Difference (%)
Enters	>1 to 10	>1 to 10	-27.3
Created	>0 to 1	>0 to 1	0
Destroyed or Transformed	0	0	
Released, Transferred For Recycling	>0 to 1	>0 to 1	71.7
Released, as Air Emission	0	0	
In product	>1 to 10	>1 to 10	-14.4

Historical Comparison

A review of the historical comparison indicates that, in general, calculated differences for uses and amounts in product resulted in an overall decrease from year 2017 to year 2018 (a negative difference) with the exception of zinc and hexavalent chromium. In general, amounts of substances released for recycling decreased showing the effect of the installation of the laser cutting machine.

Reduction Plan Objectives and Targets:

As these seven elements are key components of steel that enters the production facility, their elimination is not a viable option. Circa intends to investigate methods to minimize the fraction of chromium, hexavalent chromium, copper, lead, manganese, cobalt and zinc releases from their facility as scrap, as these losses represent potential lost profits.

Reduction Options Under Consideration for Implementation:

Ongoing Best Operating Practices such as modifying the production design procedure to utilize different sized sheets to reduce scrap generation will continue to be practiced. As well, the ratio of scrap produced to raw steel purchases will continue to be monitored to reduce scrap sent for recycling.

Additional Actions and Their Impact on Substance Use, Creation and Discharge:

Annual P2 review meetings and annual Best Operating Practices refresher courses will be conducted for continued improvement.

Amendments or Changes to Toxic Reduction Plans During Report Period:

No amendments or changes have been made to the facility's toxics reduction plans.

Copy of Certification:

As of _____(date), I, Ken Fleming, certify that I have read the report on the toxic substance reduction plan for the toxic substances 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.

Chromium
Hexavalent Chromium
Copper
Manganese
Lead
Zinc
Cobalt

Ken Fleming
VP-Operations
Circa Metals Hydrel
(Highest Ranking Employee)

Date