

**Toxics Reduction Act Public Annual Report 2020**

The legal and trade names of the owner and the operator of the facility, the street address of the facility and, if the mailing address of the facility is different from the street address, the mailing address.(See below)	Companhia Vale do Rio Doce (Vale)		
Facility NPRI identification number	1465		
The identification number assigned to the facility by the Ministry of the Environment for the purposes of Ontario Regulation 127/01.	1465		
Number of full-time employees	129		
North American Industry Classification System (NAICS) - 2, 4, and 6 digit codes	21	22	32
If applicable, the name, position and telephone number of the individual who is the contact at the facility for the public: Public Contact (if applicable) Title Phone Number	Ms. Mary Dubel Superintendent - Environment 705-682-5563		
Address of the facility Facility Name Address 1 Address 2 City Province Postal Code	Clarabelle Mill Clarabelle Road Unit 1  Copper Cliff Ontario P0M 1N0		
UTM coordinates, x and y Datum	X 495695	Y 5148049	NAD83
Legal name of Canadian parent company, if your facility is a subsidiary of a Canadian parent company Parent company name Address 1 Address 2 City Province Postal Code Percent Ownership	Vale 200 Bay Street, Royal Bank Plaza Suite 1600 , South Tower, P.O. Box 70 Toronto Ontario M5J 2K2 100		

Substance:	Ammonia
CAS Number:	NA-16
On a facility-wide basis: Amount that entered the facility as the substance itself or as a constituent of another substance: The amount of substance that was created: The amount of substance that was contained in product:	Tonnes Range 100 to 1,000 0 0
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>	

Substance:	Arsenic (and its compounds)
CAS Number:	NA-02
On a facility-wide basis: Amount that entered the facility as the substance itself or as a constituent of another substance: The amount of substance that was created: The amount of substance that was contained in product:	Kilograms Range 100,000 to 1,000,000 0 Range 100,000 to 1,000,000
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>	

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Substance:	Cadmium (and its compounds)
CAS Number:	NA-03
On a facility-wide basis:	Kilograms
Amount that entered the facility as the substance itself or as a constituent of another substance:	Range 10,000 to 100,000
The amount of substance that was created:	0
The amount of substance that was contained in product:	Range 10,000 to 100,000
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>	

Substance:	Carbon disulphide
CAS Number:	75-15-0
On a facility-wide basis:	Tonnes
Amount that entered the facility as the substance itself or as a constituent of another substance:	0
The amount of substance that was created:	Range 10 to 100
The amount of substance that was contained in product:	0
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>	

Substance:	Chromium (and its compounds)
CAS Number:	NA-04
On a facility-wide basis:	Tonnes
Amount that entered the facility as the substance itself or as a constituent of another substance:	Range 100 to 1,000
The amount of substance that was created:	0
The amount of substance that was contained in product:	Range 1,000 to 10,000
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>	

Substance:	Cobalt (and its compounds)
CAS Number:	NA-05
On a facility-wide basis:	Tonnes
Amount that entered the facility as the substance itself or as a constituent of another substance:	Range 1,000 to 10,000
The amount of substance that was created:	0
The amount of substance that was contained in product:	Range 1,000 to 10,000
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>	

Substance:	Copper (and its compounds)
CAS Number:	NA-06
On a facility-wide basis:	Tonnes
Amount that entered the facility as the substance itself or as a constituent of another substance:	Range 10,000 to 100,000
The amount of substance that was created:	0
The amount of substance that was contained in product:	Range 10,000 to 100,000
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>	

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Substance:	Lead (and its compounds)
CAS Number:	NA-08
On a facility-wide basis:	Kilograms
Amount that entered the facility as the substance itself or as a constituent of another substance:	Range 100,000 to 1,000,000
The amount of substance that was created:	0
The amount of substance that was contained in product:	Range 100,000 to 1,000,000

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Substance:	Manganese (and its compounds)
CAS Number:	NA-09
On a facility-wide basis:	Tonnes
Amount that entered the facility as the substance itself or as a constituent of another substance:	Range 1,000 to 10,000
The amount of substance that was created:	0
The amount of substance that was contained in product:	Range 1,000 to 10,000

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Substance:	Mercury (and its compounds)
CAS Number:	NA-10
On a facility-wide basis:	Kilograms
Amount that entered the facility as the substance itself or as a constituent of another substance:	Range 100 to 1,000
The amount of substance that was created:	0
The amount of substance that was contained in product:	Range 100 to 1,000

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Substance:	Nickel (and its compounds)
CAS Number:	NA-11
On a facility-wide basis:	Tonnes
Amount that entered the facility as the substance itself or as a constituent of another substance:	Range 10,000 to 100,000
The amount of substance that was created:	0
The amount of substance that was contained in product:	Range 10,000 to 100,000

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Substance:	Nitrate ion, in solution at pH >= 6.0
CAS Number:	NA-17
On a facility-wide basis:	Tonnes
Amount that entered the facility as the substance itself or as a constituent of another substance:	Range 10 to 100
The amount of substance that was created:	0
The amount of substance that was contained in product:	0

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

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Substance:	Nitrogen oxides (expressed as NO <sub>2</sub> )
CAS Number:	11104-93-1
On a facility-wide basis:	Tonnes
Amount that entered the facility as the substance itself or as a constituent of another substance:	0
The amount of substance that was created:	Range 10 to 100
The amount of substance that was contained in product:	0
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>	

Substance:	PM10 - Particulate Matter <= 10 Microns
CAS Number:	NA-M09
On a facility-wide basis:	Tonnes
Amount that entered the facility as the substance itself or as a constituent of another substance:	0
The amount of substance that was created:	Range 10 to 100
The amount of substance that was contained in product:	0
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>	

Substance:	PM2.5 - Particulate Matter <= 2.5 Microns
CAS Number:	NA-M10
On a facility-wide basis:	Tonnes
Amount that entered the facility as the substance itself or as a constituent of another substance:	0
The amount of substance that was created:	Range 1 to 10
The amount of substance that was contained in product:	0
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>	

Substance:	Thallium
CAS Number:	7440-28-0
On a facility-wide basis:	Kilograms
Amount that entered the facility as the substance itself or as a constituent of another substance:	Range 1,000 to 10,000
The amount of substance that was created:	0
The amount of substance that was contained in product:	Range 1,000 to 10,000
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>	

Substance:	Total Particulate Matter
CAS Number:	NA-M08
On a facility-wide basis:	Tonnes
Amount that entered the facility as the substance itself or as a constituent of another substance:	0
The amount of substance that was created:	Range 10 to 100
The amount of substance that was contained in product:	0
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>	

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Substance:	Selenium (and its compounds)
CAS Number:	NA-12
On a facility-wide basis:	Kilograms
Amount that entered the facility as the substance itself or as a constituent of another substance:	Range 10,000 to 100,000
The amount of substance that was created:	0
The amount of substance that was contained in product:	Range 10,000 to 100,000
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>	

Substance:	Sulphuric Acid
CAS Number:	7664-93-9
On a facility-wide basis:	Tonnes
Amount that entered the facility as the substance itself or as a constituent of another substance:	Range 1,000 to 10,000
The amount of substance that was created:	0
The amount of substance that was contained in product:	0
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>	

Substance:	Total reduced sulphur (expressed as hydrogen sulphide)
CAS Number:	NA-014
On a facility-wide basis:	Tonnes
Amount that entered the facility as the substance itself or as a constituent of another substance:	0
The amount of substance that was created:	Range 10 to 100
The amount of substance that was contained in product:	0
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>	

Substance:	Vanadium (except when in an alloy) and its compounds
CAS Number:	7440-62-2
On a facility-wide basis:	Tonnes
Amount that entered the facility as the substance itself or as a constituent of another substance:	Range 100 to 1,000
The amount of substance that was created:	0
The amount of substance that was contained in product:	Range 100 to 1,000
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>	

Substance:	Zinc (and its compounds)
CAS Number:	NA-14
On a facility-wide basis:	Tonnes
Amount that entered the facility as the substance itself or as a constituent of another substance:	Range 1,000 to 10,000
The amount of substance that was created:	0
The amount of substance that was contained in product:	Range 100 to 1,000
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>	

As of July 31st, 2020, I certify that I have read the toxic substance reduction accounting report for Ammonia, As, Carbon disulphide, Cd, Cu, Cr, Hg, Ni, Nitrate ion, NOx, Pb, TPM, PM10, PM2.5, Total reduced sulphur, Tl, Se, Sulphuric Acid, V, and Zn and I am familiar with its contents and to my knowledge the information contained in the TRA accounting report is factually accurate and the report complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under the Act.

The original version of this report is signed off by: Highest Ranking Employee:	Lisa Lantainge
Title:	Manager Environment - Canadian Operations
Phone Number:	

