Toxics Reduction Act Public Annual Report 2016

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)	Tembec Chapleau Sawmill 175 Planer Road Chapleau ON P0M 1K0
Facility NPRI identification number	10397
The identification number assigned to the facility by the Ministry of the Environment for the purposes of Ontario Regulation 127/01.	-
Number of full-time employees	175
North American Industry Classification System (NAICS) - 2, 4, and 6 digit codes	31-33 - Manufacturing 3211 - Sawmills & Wood Preservation 321111 - Sawmills

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)	Linda Coates
Title	VP – Human Resources and Corporate Affairs
Phone Number	(416) 775-2819

Address of each person below if not the same as the facility

Facility Name	Tembec Chapleau Sawmill
Address 1	175 Planer Road
Address 2	
City	Chapleau
Province	ON
Postal Code	P0M 1K0

UTM coordinates, x and y	X	318489.7	Y	5301986.7
Datum				WGS84

Legal name of Canadian parent company, if your facility is a subsidiary of a Canadian parent company

Parent company name	Tembec
Address 1	10, chemin Gatineau
Address 2	
City	Temiscaming
Province	QC
Postal Code	J0Z 3R0
Percent Ownership	100%

Substance Accounting Information

Substance:	Manganese and its compounds
CAS Number:	NA - 09

On a facility-wide basis:	Amount	Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	37.666	Mg
The amount of substance that was created:	0.000	Mg
The amount of substance that was contained in product:	23.352	Mg

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:	Cadmium and its compounds
CAS Number:	NA - 03

On a facility-wide basis:	Amount	Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	37.717	kg
The amount of substance that was created:	0.000	kg
The amount of substance that was contained in product:	31.154	kg

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:	Lead and its compounds
CAS Number:	NA - 08

On a facility-wide basis:	Amount	Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	BT	kg
The amount of substance that was created:	BT	kg
The amount of substance that was contained in product:	BT	kg

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:	Methanol
CAS Number:	67-56-1

On a facility-wide basis:	Amount	Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	0.000	Mg
The amount of substance that was created:	5.981	Mg
The amount of substance that was contained in product:	0.000	Mg

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 Accounting Information

Substance:	Alpha-Pinene
CAS Number:	80-56-8

On a facility-wide basis:	Amount	Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	0.000	Mg
The amount of substance that was created:	7.842	Mg
The amount of substance that was contained in product:	0.000	Mg

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:	beta-Phellandrene
CAS Number:	555-10-2

On a facility-wide basis:	Amount	Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	0.000	Mg
The amount of substance that was created:	4.773	Mg
The amount of substance that was contained in product:	0.000	Mg

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:	beta-Pinene
CAS Number:	127-91-3

On a facility-wide basis:	Amount	Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	0.000	Mg
The amount of substance that was created:	4.642	Mg
The amount of substance that was contained in product:	0.000	Mg

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:	Ethyl Alcohol
CAS Number:	64-17-5

On a facility-wide basis:	Amount	Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	0.000	Mg
The amount of substance that was created:	1.336	Mg
The amount of substance that was contained in product:	0.000	Mg

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 Accounting Information

Substance:	Oxides of Nitrogen
CAS Number:	11104-93-1

On a facility-wide basis:	Amount	Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	0.000	Mg
The amount of substance that was created:	84.963	Mg
The amount of substance that was contained in product:	0.000	Mg

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:	Carbon Monoxide
CAS Number:	630-08-0

On a facility-wide basis:	Amount	Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	0.000	Mg
The amount of substance that was created:	198.482	Mg
The amount of substance that was contained in product:	0.000	Mg

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:	Particulate Matter
CAS Number:	NA - M08

On a facility-wide basis:	Amount	Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	0.000	Mg
The amount of substance that was created:	43.295	Mg
The amount of substance that was contained in product:	0.000	Mg

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:	PM10
CAS Number:	NA - M09

On a facility-wide basis:	Amount	Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	0.000	Mg
The amount of substance that was created:	31.393	Mg
The amount of substance that was contained in product:	0.000	Mg

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 Accounting Information

Substance:	PM2.5
CAS Number:	NA - M10

On a facility-wide basis:	Amount	Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	0.000	Mg
The amount of substance that was created:	28.194	Mg
The amount of substance that was contained in product:	0.000	Mg

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

Comparison of Annual Reported Amounts

Substance:	Manganese and its compounds
CAS Number:	NA - 09

On a facility-wide basis:	2016	2015	Difference	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Mg	Mg	Mg	%
	37.666	46.114	-8.448	-18.3%
The amount of substance that was created:	0.000	0.000	0.000	0.0%
The amount of substance that was contained in product:	23.352	23.608	-0.257	NA

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:	Cadmium and its compounds
CAS Number:	NA - 03

On a facility-wide basis:	2016	2015	Difference	
Amount that entered the facility as the substance itself or as a constituent of another substance:	kg	kg	kg	%
	37.717	41.086	-3.369	-8.2%
The amount of substance that was created:	0.000	0.000	0.000	0.0%
The amount of substance that was contained in product:	31.154	31.497	-0.342	NA

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:	Lead and its compounds
CAS Number:	NA - 08

On a facility-wide basis:	2016	2015	Difference	
Amount that entered the facility as the substance itself or as a constituent of another substance:	kg	kg	kg	%
	BT	215.550	NA	NA
The amount of substance that was created:	BT	0.000	NA	NA
The amount of substance that was contained in product:	BT	183.126	NA	NA

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

Comparison of Annual Reported Amounts

Substance:	Methanol
CAS Number:	67-56-1

On a facility-wide basis:	2016	2015	Difference	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Mg	Mg	Mg	%
	0.000	0.000	0.000	0.0%
The amount of substance that was created:	5.981	5.775	0.206	3.6%
The amount of substance that was contained in product:	0.000	0.000	0.000	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 http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Substance:	Alpha-Pinene
CAS Number:	80-56-8

On a facility-wide basis:	2016	2015	Difference	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Mg	Mg	Mg	%
	0.000	0.000	0.000	0.0%
The amount of substance that was created:	7.842	7.622	0.220	2.9%
The amount of substance that was contained in product:	0.000	0.000	0.000	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 http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Substance:	beta-Phellandrene
CAS Number:	555-10-2

On a facility-wide basis:	2016	2015	Difference	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Mg	Mg	Mg	%
	0.000	0.000	0.000	0.0%
The amount of substance that was created:	4.773	4.356	0.417	9.6%
The amount of substance that was contained in product:	0.000	0.000	0.000	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 http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Substance:	beta-Pinene
CAS Number:	127-91-3

On a facility-wide basis:	2016	2015	Difference	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Mg	Mg	Mg	%
	0.000	0.000	0.000	0.0%
The amount of substance that was created:	4.642	4.447	0.195	4.4%
The amount of substance that was contained in product:	0.000	0.000	0.000	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 http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Comparison of Annual Reported Amounts

Substance:	Ethyl Alcohol
CAS Number:	64-17-5

On a facility-wide basis:	2016	2015	Difference	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Mg	Mg	Mg	%
	0.000	0.000	0.000	0.0%
The amount of substance that was created:	1.336	1.252	0.084	6.7%
The amount of substance that was contained in product:	0.000	0.000	0.000	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 http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Substance:	Oxides of Nitrogen
CAS Number:	11104-93-1

On a facility-wide basis:	2016	2015	Difference	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Mg	Mg	Mg	%
	0.000	0.000	0.000	0.0%
The amount of substance that was created:	84.963	85.793	-0.830	-1.0%
The amount of substance that was contained in product:	0.000	0.000	0.000	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 http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Substance:	Carbon Monoxide
CAS Number:	630-08-0

On a facility-wide basis:	2016	2015	Difference	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Mg	Mg	Mg	%
	0.000	0.000	0.000	0.0%
The amount of substance that was created:	198.482	200.251	-1.769	-0.9%
The amount of substance that was contained in product:	0.000	0.000	0.000	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 http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Substance:	Particulate Matter
CAS Number:	NA - M08

On a facility-wide basis:	2016	2015	Difference	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Mg	Mg	Mg	%
	0.000	0.000	0.000	0.0%
The amount of substance that was created:	43.295	41.724	1.571	3.8%
The amount of substance that was contained in product:	0.000	0.000	0.000	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 http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Comparison of Annual Reported Amounts

Substance:	PM10
CAS Number:	NA - M09

On a facility-wide basis:	2016	2015	Difference	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Mg	Mg	Mg	%
	0.000	0.000	0.000	0.0%
The amount of substance that was created:	31.393	31.088	0.305	1.0%
The amount of substance that was contained in product:	0.000	0.000	0.000	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 http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Substance:	PM2.5
CAS Number:	NA - M10

On a facility-wide basis:	2016	2015	Difference	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Mg	Mg	Mg	%
	0.000	0.000	0.000	0.0%
The amount of substance that was created:	28.194	28.374	-0.180	-0.6%
The amount of substance that was contained in product:	0.000	0.000	0.000	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 http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Annual Progress Report - Calendar 2016

Substances for which toxic substance reduction plans have been prepared:

Substance	CASRN
Manganese and its compounds	NA - 09
Cadmium and its compounds	NA - 03
Lead and its compounds	NA - 08
Methanol	67-56-1
alpha-Pinene	80-56-8
beta-Phellandrene	555-10-2
beta-Pinene	127-91-3
Ethyl Alcohol	64-17-5
Nitrogen Oxides	11104-93-1
Carbon Monoxide	630-08-0
Total Particulate Matter (PM_{TPM})	NA - M08
Particulate Matter ≤10 microns (PM_{10})	NA - M09
Particulate Matter ≤2.5 microns ($PM_{2.5}$)	NA - M10

Plan Objectives

The reduction of toxic substance use, creation and releases is a priority for Tembec forming part of our sustainability programs and EMS. Our goal is to reduce the use and release of the above noted substances where technically and economically feasible by the timetable noted in the plan. We will achieve these reductions through procedure improvements and employee education and training. It is important to note that most of the substances noted above are naturally in the wood materials used by the facility and that most current research seeks to abate these emissions using end of pipe controls.

Toxics Reduction Progress

In the case of the volatile species, including Alpha-Pinene, Beta-Phellandrene, and Methanol, increases in the reported quantities are attributable to an overall increase in the quantity of kiln dried lumber produced by the facility in 2016 relative to 2015 as well as changes to the wood supply ratio. Decreases in NPRI Part 4 substances, including Carbon Monoxide, Oxides of Nitrogen and PM2.5 are due to a slight decrease in the quantity of biomass used by the cogeneration facility. In the case of Cadmium, Lead and Manganese, the reduced quantity used and disposed is due to a decrease in the quantity of ash sent to disposal. Increases in the quantity of Particulate Matter and PM10 are due to changes in the input parameters for road dust calculations which saw the natural mitigation days decrease in 2016 to 248 days in which the area was snow covered or precipitation amounts exceeded 0.254 mm versus 272 days in 2015. Note that while this change also impacts calculated emissions of PM2.5 it is less significant as emissions of this substance are more heavily influenced by the cogeneration facility.

Plan Implementation Progress

Steps taken during the reporting period were those outlined in the plan for this substance and include operational improvements related to lumber drying specifically green lumber sorting and standard operating procedures for the kilns (ONT-SPF-446-04-v2 – Acrolein). There were no deviations from or amendments made to the plan in the reporting period. The timetable outlined in the plan will be met.

As of May 24, 2017, I certify that I have read the reports on the toxic substance reduction plans for the above noted substances 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 the Act.

The original version of this report is signed off by:

Highest Ranking Employee:	Ron Martel
Title:	General Manager
Phone Number:	(705) 864-3000

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.