

**Toxics Reduction Act Public Annual Report - Calendar 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 Kapuskasing 1 Government Road P.O. Box 100 Kapuskasing ON P5N 2Y2
Facility NPRI identification number	002173
The identification number assigned to the facility by the Ministry of the Environment for the purposes of Ontario Regulation 127/01.	5625
Number of full-time employees	480
North American Industry Classification System (NAICS) - 2, 4, and 6 digit codes	31-33 - Manufacturing 3221 - Pulp, Paper & Paperboard Mills 322122 - Newsprint Mills
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 - Communications and Public Affairs
Phone Number	416-775-2819
Address of each person below if not the same as the facility	
Facility Name	Tembec Kapuskasing
Address 1	1 Government Road
Address 2	P.O. Box 100
City	Kapuskasing
Province	ON
Postal Code	P5N 2Y2
UTM coordinates, x and y	X 396647.6      Y 5473830
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	(blank)
City	Témiscaming
Province	QC
Postal Code	J0Z 3R0
Percent Ownership	100%

### Substance Accounting Information

Substance:	alpha-Pinene
CAS Number:	80-56-8
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
	0.000 Mg
The amount of substance that was created:	15.592 Mg
The amount of substance that was contained in product:	0.000 Mg
<p>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></p>	

Substance:	Ammonia (total)
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:	Amount      Units
	239.473 Mg
The amount of substance that was created:	0.000 Mg
The amount of substance that was contained in product:	0.000 Mg
<p>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></p>	

Substance:	beta-Phellandrene
CAS Number:	555-10-2
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
	0.000 Mg
The amount of substance that was created:	5.199 Mg
The amount of substance that was contained in product:	0.000 Mg
<p>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></p>	

Substance:	beta-Pinene
CAS Number:	127-91-3
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
	0.000 Mg
The amount of substance that was created:	11.494 Mg
The amount of substance that was contained in product:	0.000 Mg
<p>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></p>	

### Substance Accounting Information

Substance:	Cadmium
CAS Number:	NA - 03
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
The amount of substance that was created:	51.027 kg
The amount of substance that was contained in product:	0.000 kg
	21.994 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 <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 Monoxide
CAS Number:	630-08-0
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
The amount of substance that was created:	0.000 Mg
The amount of substance that was contained in product:	572.288 Mg
	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 <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:	d-Limonene
CAS Number:	5989-27-5
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
The amount of substance that was created:	0.000 Mg
The amount of substance that was contained in product:	4.973 Mg
	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 <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:	Ethyl Alcohol
CAS Number:	64-17-5
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
The amount of substance that was created:	0.000 Mg
The amount of substance that was contained in product:	2.122 Mg
	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 <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 Accounting Information

Substance:	Formaldehyde
CAS Number:	50-00-0
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
The amount of substance that was created:	0.000 Mg
The amount of substance that was contained in product:	2.307 Mg
	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 <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:	Isopropyl Alcohol
CAS Number:	67-63-0
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
The amount of substance that was created:	0.000 Mg
The amount of substance that was contained in product:	5.043 Mg
	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 <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:	Lead
CAS Number:	NA - 08
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
The amount of substance that was created:	244.450 kg
The amount of substance that was contained in product:	0.000 kg
	127.875 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 <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:	Manganese
CAS Number:	NA - 09
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
The amount of substance that was created:	42.965 Mg
The amount of substance that was contained in product:	0.000 Mg
	15.283 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 <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 Accounting Information

Substance:	Methanol
CAS Number:	67-56-1
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
	0.000 Mg
The amount of substance that was created:	21.604 Mg
The amount of substance that was contained in product:	0.000 Mg
<p>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></p>	

Substance:	Methyl Isobutyl Ketone
CAS Number:	108-10-1
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
	0.000 Mg
The amount of substance that was created:	1.341 Mg
The amount of substance that was contained in product:	0.000 Mg
<p>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></p>	

Substance:	Oxides of Nitrogen (as NO <sub>2</sub> )
CAS Number:	11104-93-1
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
	0.000 Mg
The amount of substance that was created:	289.072 Mg
The amount of substance that was contained in product:	0.000 Mg
<p>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></p>	

Substance:	Particulate Matter
CAS Number:	NA - M08
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
	0.000 Mg
The amount of substance that was created:	29.404 Mg
The amount of substance that was contained in product:	0.000 Mg
<p>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></p>	

### Substance Accounting Information

Substance: CAS Number:	Particulate Matter - PM <sub>10</sub> NA - M09								
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:	<table style="margin-left: auto; margin-right: 0;"> <thead> <tr> <th style="text-align: left;">Amount</th> <th style="text-align: left;">Units</th> </tr> </thead> <tbody> <tr> <td style="border: 1px solid black; text-align: center;">0.000</td> <td>Mg</td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">11.654</td> <td>Mg</td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">0.000</td> <td>Mg</td> </tr> </tbody> </table>	Amount	Units	0.000	Mg	11.654	Mg	0.000	Mg
Amount	Units								
0.000	Mg								
11.654	Mg								
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 <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: CAS Number:	Particulate Matter - PM <sub>2.5</sub> NA - M10								
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:	<table style="margin-left: auto; margin-right: 0;"> <thead> <tr> <th style="text-align: left;">Amount</th> <th style="text-align: left;">Units</th> </tr> </thead> <tbody> <tr> <td style="border: 1px solid black; text-align: center;">0.000</td> <td>Mg</td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">5.069</td> <td>Mg</td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">0.000</td> <td>Mg</td> </tr> </tbody> </table>	Amount	Units	0.000	Mg	5.069	Mg	0.000	Mg
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0.000	Mg								
5.069	Mg								
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 <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: CAS Number:	Phosphorus (total) NA - 22								
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:	<table style="margin-left: auto; margin-right: 0;"> <thead> <tr> <th style="text-align: left;">Amount</th> <th style="text-align: left;">Units</th> </tr> </thead> <tbody> <tr> <td style="border: 1px solid black; text-align: center;">48.988</td> <td>Mg</td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">0.000</td> <td>Mg</td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">0.000</td> <td>Mg</td> </tr> </tbody> </table>	Amount	Units	48.988	Mg	0.000	Mg	0.000	Mg
Amount	Units								
48.988	Mg								
0.000	Mg								
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 <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: CAS Number:	Selenium NA - 12								
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:	<table style="margin-left: auto; margin-right: 0;"> <thead> <tr> <th style="text-align: left;">Amount</th> <th style="text-align: left;">Units</th> </tr> </thead> <tbody> <tr> <td style="border: 1px solid black; text-align: center;">133.621</td> <td>kg</td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">0.000</td> <td>kg</td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">105.103</td> <td>kg</td> </tr> </tbody> </table>	Amount	Units	133.621	kg	0.000	kg	105.103	kg
Amount	Units								
133.621	kg								
0.000	kg								
105.103	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 <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 Accounting Information

Substance:  
CAS Number:

Sulphuric Acid
7664-93-9

On a facility-wide basis:  
Amount that entered the facility as the substance itself or as a constituent of another substance:

Amount      Units

The amount of substance that was created:  
The amount of substance that was contained in product:

499.279	Mg
1.616	Mg
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>

### Annual Progress Report - Calendar 2016

Substances for which toxic substance reduction plans have been prepared:

Substance	CASRN
Ammonia (total)	NA - 16
alpha-Pinene	80-56-8
beta-Phellandrene	555-10-2
beta-Pinene	127-91-3
Cadmium (and its compounds)	NA - 03
Carbon Monoxide	630-08-0
d-Limonene	5989-27-5
Ethyl Alcohol	64-17-5
Formaldehyde	50-00-0
Isopropyl Alcohol	67-63-0
Lead (and its compounds)	NA - 08
Manganese (and its compounds)	NA - 09
Methanol	67-56-1
Methyl Isobutyl Ketone	108-10-1
Oxides of Nitrogen (as NO <sub>2</sub> )	11104-93-1
Particulate Matter	NA - M08
Particulate Matter - PM10	NA - M09
Particulate Matter - PM2.5	NA - M10
Phosphorus (total)	NA - 22
Selenium	NA - 12
Sulphur Dioxide (currently below reporting threshold)	7446-09-5
Sulphuric Acid	7664-93-9

#### 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

As noted above, a comparison of the reportable substances for 2015 and 2016 indicates that there were no new substances reported for 2016. In terms of quantities of the substances reported, in general the current reporting year saw minimal changes (i.e., less than 10% change) in the majority of report categories. Exceptions to this trend were the quantities of metals disposed which decreased in the current reporting year due to a decrease in the quantity of ash sent to landfill as well as no wastewater treatment sludges being disposed in 2016. In the case of Ammonia, while the annual quantity used decreased by approximately 8% the quantity released in treated effluent increased by approximately 35%. This was due to an increase in the average Ammonia concentration in the effluent in 2016 (to 0.05 mg/L from 0.04 mg/L) as well as a slight increase in the total quantity of effluent released (approximately 8%).

With respect to road dust calculations, precipitation and snow cover data for 2016 from the Kapuskasing airport were used as inputs for natural mitigation. These data reduced the total number of days during the calendar year for which fugitive particulate matter emissions from vehicular traffic on unpaved roads at the site was possible. This in turn reduces the amount of particulate matter species released from these sources at the site. Furthermore, application of chemical stabilizers to unpaved roads was also completed in 2016 further reducing the quantity of fugitive particulate matter emissions from unpaved roads. The natural mitigation days in 2016 were higher than the previous reporting period (249 vs 229) which resulted in a decrease in emissions of particulate matter species from unpaved roads during the reporting period.

### Plan Implementation Progress

Steps taken during the reporting period were those outlined in the plan for these substances and include operational steps for continuous improvement in steam management and kiln operations. There were no deviations from or amendments made to the plan in the reporting period. The timetable outlined in the plan will be met.

There were no reductions directly attributable to any reduction options noted in the plans although it is important to note that Tembec continues to make procedural improvements which may not necessarily be captured as an overall reduction in the quantity of a substance used, created or released due to the nature in which these quantities are calculated (i.e., as an absolute value as opposed to a per unit of production value).

### Certification Statement - Calendar 2016

As of May 29, 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:

Title:

Phone Number:

Andre Ouimette
VP - Ontario Operations
705-337-1311

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.



**Comparison of Reported Amounts**

Substance	CASRN	Report Year	Used	Created	In Product	Air	Water	Disposal	Recycle
Ammonia (total)	NA - 16	2015	258.780	0.000	0.000	0.225	0.543	0.000	0.000
(Units Mg)		2016	239.473	0.000	0.000	0.225	0.732	0.000	0.000
		Change	-19.307	0.000	0.000	0.000	0.189	0.000	0.000
		% Change	-8.1%	0.0%	0.0%	0.0%	34.8%	0.0%	0.0%
Manganese	NA - 09	2015	45.306	0.000	15.330	0.036	2.701	24.843	0.000
(Units Mg)		2016	42.964	0.000	15.283	0.036	2.913	21.511	0.000
		Change	-2.342	0.000	-0.047	0.000	0.212	-3.332	0.000
		% Change	-5.2%	0.0%	-0.3%	-0.6%	7.8%	-13.4%	0.0%
Methanol	67-56-1	2015	0.000	21.056	0.000	21.042	0.014	0.000	0.000
(Units Mg)		2016	0.000	21.604	0.000	21.589	0.015	0.000	0.000
		Change	0.000	0.548	0.000	0.547	0.001	0.000	0.000
		% Change	0.0%	2.6%	0.0%	2.6%	7.8%	100.0%	0.0%
Phosphorus (total)	NA - 22	2015	43.445	0.000	0.000	0.000	3.987	0.001	0.000
(Units Mg)		2016	48.988	0.000	0.000	0.000	5.398	0.000	0.000
		Change	5.544	0.000	0.000	0.000	1.410	-0.001	0.000
		% Change	12.8%	0.0%	0.0%	0.0%	35.4%	-100.0%	0.0%
Sulphuric Acid	7664-93-9	2015	373.159	1.676	0.000	1.676	0.000	0.000	0.000
(Units Mg)		2016	444.358	1.616	0.000	1.616	0.000	0.000	0.000
		Change	71.199	-0.060	0.000	-0.060	0.000	0.000	0.000
		% Change	19.1%	-3.6%	0.0%	-3.6%	0.0%	0.0%	0.0%
Cadmium	NA - 03	2015	53.894	0.000	22.058	0.454	0.002	29.789	0.000
(Units kg)		2016	51.027	0.000	21.994	0.452	0.002	25.885	0.000
		Change	-2.867	0.000	-0.064	-0.002	0.000	-3.904	0.000
		% Change	-5.3%	0.0%	-0.3%	-0.4%	0.0%	-13.1%	0.0%
Lead	NA - 08	2015	254.243	0.000	128.246	2.307	3.936	110.505	0.000
(Units kg)		2016	244.451	0.000	127.875	2.299	4.244	94.371	0.000
		Change	-9.792	0.000	-0.371	-0.008	0.309	-16.134	0.000
		% Change	-3.9%	0.0%	-0.3%	-0.4%	7.8%	-14.6%	0.0%
Selenium	NA - 12	2015	142.893	0.000	105.408	1.148	12.445	1.348	0.000
(Units kg)		2016	149.265	0.000	105.103	1.146	13.421	1.079	0.000
		Change	6.373	0.000	-0.305	-0.003	0.976	-0.270	0.000
		% Change	4%	0.000	-0.3%	0%	8%	-20%	0%
Oxides of Nitrogen (as NO2)	11104-93-1	2015	0.000	288.981	NA	288.981	NA	NA	NA
(Units Mg)		2016	0.000	289.072	NA	289.072	NA	NA	NA
		Change	0.000	0.091	NA	0.091	NA	NA	NA
		% Change	0.0%	0.0%	NA	0.0%	NA	NA	NA
Carbon Monoxide	630-08-0	2015	0.000	575.452	NA	575.452	NA	NA	NA
(Units Mg)		2016	0.000	572.288	NA	572.288	NA	NA	NA
		Change	0.000	-3.163	NA	-3.163	NA	NA	NA
		% Change	0.0%	-0.5%	NA	-0.5%	NA	NA	NA
VOC's	NA - M16	2015	0.000	68.947	NA	68.947	NA	NA	NA
(Units Mg)		2016	0.000	69.639	NA	69.639	NA	NA	NA
		Change	0.000	0.692	NA	0.692	NA	NA	NA
		% Change	0.0%	1.0%	NA	1.0%	NA	NA	NA
Particulate Matter (10)	NA - M09	2015	0.000	12.207	NA	12.207	NA	NA	NA
(Units Mg)		2016	0.000	11.654	NA	11.654	NA	NA	NA
		Change	0.000	-0.553	NA	-0.553	NA	NA	NA
		% Change	0.0%	-4.5%	NA	-4.5%	NA	NA	NA
Particulate Matter (2.5)	NA - M10	2015	0.000	5.005	NA	5.005	NA	NA	NA
(Units Mg)		2016	0.000	5.069	NA	5.069	NA	NA	NA
		Change	0.000	0.064	NA	0.064	NA	NA	NA
		% Change	0.0%	1.3%	NA	1.3%	NA	NA	NA
Particulate Matter (TPM)	NA - M08	2015	0.000	31.750	NA	31.750	NA	NA	NA
(Units Mg)		2016	0.000	29.404	NA	29.404	NA	NA	NA
		Change	0.000	-2.346	NA	-2.346	NA	NA	NA
		% Change	0.0%	-7.4%	NA	-7.4%	NA	NA	NA
Formaldehyde	50-00-0	2015	0.000	2.231	NA	2.231	NA	NA	NA
(Units Mg)		2016	0.000	2.308	NA	2.308	NA	NA	NA
		Change	0.000	0.076	NA	0.076	NA	NA	NA
		% Change	0.0%	3.4%	NA	3.4%	NA	NA	NA
Alpha-Pinene	80-56-8	2015	0.000	15.251	NA	15.251	NA	NA	NA
(Units Mg)		2016	0.000	15.592	NA	15.592	NA	NA	NA
		Change	0.000	0.341	NA	0.341	NA	NA	NA
		% Change	0.0%	2.2%	NA	2.2%	NA	NA	NA
Beta-Pinene	127-91-3	2015	0.000	11.199	NA	11.199	NA	NA	NA
(Units Mg)		2016	0.000	11.494	NA	11.494	NA	NA	NA
		Change	0.000	0.294	NA	0.294	NA	NA	NA
		% Change	0.0%	2.6%	NA	2.6%	NA	NA	NA

**Comparison of Reported Amounts**

<b>Substance</b>	<b>CASRN</b>	<b>Report Year</b>	<b>Used</b>	<b>Created</b>	<b>In Product</b>	<b>Air</b>	<b>Water</b>	<b>Disposal</b>	<b>Recycle</b>
Beta-Phellandrene	555-10-2	2015	0.000	5.198	NA	5.198	NA	NA	NA
(Units Mg)		2016	0.000	5.199	NA	5.199	NA	NA	NA
		Change	0.000	0.001	NA	0.001	NA	NA	NA
		% Change	0.0%	0.0%	NA	0.0%	NA	NA	NA
D-Limonene	5989-27-5	2015	0.005	4.820	NA	4.732	NA	NA	NA
(Units Mg)		2016	0.005	4.820	NA	4.974	NA	NA	NA
		Change	0.000	0.000	NA	0.243	NA	NA	NA
		% Change	0.0%	0.0%	NA	5.1%	NA	NA	NA
Ethyl Alcohol	64-17-5	2015	0.000	2.128	NA	2.128	NA	NA	NA
(Units Mg)		2016	0.000	2.121	NA	2.121	NA	NA	NA
		Change	0.000	-0.007	NA	-0.007	NA	NA	NA
		% Change	0.0%	-0.3%	NA	-0.3%	NA	NA	NA
Isopropyl Alcohol	67-63-0	2015	0.000	5.079	NA	5.079	NA	NA	NA
(Units Mg)		2016	0.000	5.043	NA	5.043	NA	NA	NA
		Change	0.000	-0.035	NA	-0.035	NA	NA	NA
		% Change	0.0%	-0.7%	0.0%	-0.7%	NA	NA	NA
Methyl Isobutyl Ketone	108-10-1	2015	0.000	1.286	NA	1.286	NA	NA	NA
(Units Mg)		2016	0.000	1.341	NA	1.341	NA	NA	NA
		Change	0.000	0.055	NA	0.055	NA	NA	NA
		% Change	0.0%	4.3%	NA	4.3%	NA	NA	NA

Notes:

NA - Not Applicable

BT - Below reporting threshold

NC - Value cannot be calculated - i.e., division by zero.

# Report Submission and Electronic Certification

## NPRI - Electronic Statement of Certification

Specify the language of correspondence

Comments (optional)

I hereby certify that I have exercised due diligence to ensure that the submitted information is true and complete. The amounts and values for the facility(ies) identified below are accurate, based on reasonable estimates using available data. The data for the facility(ies) that I represent are hereby submitted to the programs identified below using the Single Window Reporting Application.

I also acknowledge that the data will be made public.

Note: Only the person identified as the Certifying Official or the authorized delegate should submit the report(s) identified below.

Company Name

Certifying Official (or authorized delegate)

Report Submitted by

I, the Certifying Official or authorized delegate, agree with the statements above and acknowledge that by pressing the "Submit Report(s)" button, I am electronically certifying and submitting the facility report(s) for the identified company to its affiliated programs.

## ON MOE TRA - Electronic Certification Statement

### Annual Report Certification Statement

As of 29/05/2017, I, Andre Ouimette, certify that I have read the reports on the toxic substance reduction plans for the toxic substances referred to below 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 that Act.

### TRA Substance List

**CAS RN**

**Substance Name**

NA - 16	Ammonia (total)
555-10-2	Beta-Phellandrene
127-91-3	Beta-Pinene
NA - 03	Cadmium (and its compounds)
630-08-0	Carbon monoxide
5989-27-5	D-Limonene
64-17-5	Ethanol
50-00-0	Formaldehyde
67-63-0	Isopropyl alcohol
NA - 08	Lead (and its compounds)
NA - 09	Manganese (and its compounds)
67-56-1	Methanol
108-10-1	Methyl isobutyl ketone
11104-93-1	Nitrogen oxides (expressed as NO <sub>2</sub> )
NA - 22	Phosphorus (total)
NA - M09	PM10 - Particulate Matter
NA - M10	PM2.5 - Particulate Matter

NA - 12	Selenium (and its compounds)
7664-93-9	Sulphuric acid
NA - M08	Total Particulate Matter
NA - M16	Volatile Organic Compounds (VOCs)

Company Name

Tembec

Highest Ranking Employee

Andre Ouimette

Report Submitted by

Andre Ouimette

Website address

www.tembec.com

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.

## Submitted Report

Period	Submission Date	Facility Name	Province	City	Programs
2016	29/05/2017	Kapuskasing Operations	Ontario	Kapuskasing	NPRI, ON MOE TRA

Note: If there is a change in the contact information for the facility, a change in the owner or operator of the facility, if operations at the facility are terminated, or if information submitted for any previous year was mistaken or inaccurate, please update this information through SWIM or by contacting the National Pollutant Release Inventory directly.