

**Toxics Reduction Act Public Annual Report - Calendar 2019**

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)

RYAM Lumber Cochrane Sawmill
70 - 17th Avenue
P.O. Box 1059
Cochrane ON
P0L 1C0

Facility NPRI identification number

11068
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The identification number assigned to the facility by the Ministry of the Environment for the purposes of Ontario Regulation 127/01.

5591
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Number of full-time employees

119
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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)

Ken Munnoch
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Title

Env. Mgr., Newsprint & Forest Products Group
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Phone Number

(705) 337-9772
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Address of each person below if not the same as the facility

Facility Name

RYAM Lumber Cochrane Sawmill
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Address 1

70 - 17th Avenue
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Address 2

P.O. Box 1059
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City

Cochrane
----------

Province

ON
----

Postal Code

P0L 1C0
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UTM coordinates, x and y

X 

499471.8
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Y 

5433941.2
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Datum

WGS84
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Legal name of Canadian parent company, if your facility is a subsidiary of a Canadian parent company

Parent company name

Rayonier A.M. Canada G.P.
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Address 1

4 Place Ville-Marie, Suite 100
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Address 2

City

Montréal
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Province

QC
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Postal Code

H3B 2E7
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Percent Ownership

100%
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**Substance Accounting Information**

Substance:

Alpha-Pinene
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CAS Number:

80-56-8
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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
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The amount of substance that was created:

6.921	Mg
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The amount of substance that was contained in product:

0.000	Mg
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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:  
CAS Number:

Beta-Pinene
127-91-3

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:

Amount	Units
0.000	Mg
4.336	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>

Substance:  
CAS Number:

Beta-Phellandrene
555-10-2

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:

Amount	Units
0.000	Mg
2.142	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>

Substance:  
CAS Number:

Ethyl Alcohol
64-17-5

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:

Amount	Units
0.000	Mg
1.191	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>

Substance:  
CAS Number:

Methanol
67-56-1

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:

Amount	Units
0.000	Mg
5.798	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>

### Substance Accounting Information

Substance:  
CAS Number:

PM10
NA-M09

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:

0.000	Mg
1.664	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>

### Comparison of Annual Reported Amounts

Substance:  
CAS Number:

Alpha-Pinene
80-56-8

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:

2019	2018	Difference	
Mg	Mg	Mg	%
0.000	0.000	0.000	0
6.921	6.459	0.463	7.2%
0.000	0.000	0.000	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:  
CAS Number:

Beta-Pinene
127-91-3

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:

2019	2018	Difference	
Mg	Mg	Mg	%
0.000	0.000	0.000	0
4.336	4.072	0.263	6.5%
0.000	0.000	0.000	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:  
CAS Number:

Beta-Phellandrene
555-10-2

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:

2019	2018	Difference	
Mg	Mg	Mg	%
0.000	0.000	0.000	0
2.142	1.600	0.543	33.9%
0.000	0.000	0.000	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:	2019	2018	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
The amount of substance that was created:	1.1912	1.0865	0.1047	9.6%
The amount of substance that was contained in product:	0.000	0.000	0.000	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:	Methanol			
CAS Number:	67-56-1			
On a facility-wide basis:	2019	2018	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
The amount of substance that was created:	5.798	5.441	0.357	6.6%
The amount of substance that was contained in product:	0.000	0.000	0.000	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			
CAS Number:	NA-M09			
On a facility-wide basis:	2019	2018	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
The amount of substance that was created:	1.664	1.775	-0.111	-6%
The amount of substance that was contained in product:	0.000	0.000	0.000	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>				

## Annual Progress Report

Substances for which toxic substance reduction plans have been prepared:

Substance:	CASRN
alpha-Pinene	80-56-8
beta-Pinene	127-91-3
beta-Phellandrene	555-10-2
Ethyl Alcohol	64-17-5
Methanol	67-56-1
Particulate Matter equal to or less than 10 microns (PM <sub>10</sub> )	NA-M09
Particulate Matter less than 2.5 microns (PM <sub>2.5</sub> ) - Currently Below Threshold	NA-M10

### Plan Objectives

RYAM Lumber's goal is to reduce the creation of alpha-pinene, beta-pinene, beta-phellandrene, Ethyl Alcohol, Methanol, PM<sub>10</sub>, and PM<sub>2.5</sub> 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 methanol and its precursors are naturally in the wood materials used by the facility and that most current research seeks to abate methanol and VOC emissions using end of pipe controls. No technically or economically feasible reduction options were identified for PM<sub>10</sub> or PM<sub>2.5</sub>.

### Toxics Reduction Progress

Quantities of reported volatile substances increased in 2019 relative to 2018 due in part to an increase in the kiln dried lumber produced at the site as well as a change in the wood species dried in the kilns. In the case of PM<sub>10</sub>, the variation is due to changes in the quantity of road dust created and released which utilized the total distance travelled by onsite vehicles and historical weather data specific to 2019 from the nearest Environment Canada weather station. The decrease in the quantity of PM<sub>10</sub> released is due to an increase in the total number of natural mitigation days during the reporting period as total distance travelled by vehicles on-site remained essentially unchanged from the previous reporting period.

### Plan Implementation Progress

Steps taken during the reporting period were those outlined in the plans for these substances pending the completion of a technical evaluation of the reduction options noted. 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 June 8, 2020, I certify that I have read the reports on the toxic substance reduction plan for alpha-Pinene, beta-Pinene, beta-phellandrene, Ethyl Alcohol, Methanol, PM<sub>10</sub>, and PM<sub>2.5</sub> 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 the Act.

The original version of this report is signed off by:

Highest Ranking Employee:

Title:

Phone Number:

Andre Boucher
General Manager
(705) 360-7512

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.