

Toxics Reduction Act Public Annual Report 2018

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)	Tahoe Canada 2000 – 181 University Avenue Toronto ON M5H 3M7
Facility NPRI identification number	11796
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	321
North American Industry Classification System (NAICS) - 2, 4, and 6 digit codes	21 - Mining, quarrying, and oil and gas extraction 2122 - Metal ore mining 212220 - Gold and silver ore mining
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	Marcel Cardinal Manager of Environmental Affairs (705) 269-4344 Ext. 4202
Address of each person below if not the same as the facility Facility Name Address 1 City Province Postal Code	Bell Creek Complex 3160 Florence Street Porcupine ON P0N 1C0
UTM coordinates, x and y Datum	X 458919 Y 5359037 WGS84
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	

Substance Accounting

Substance:	Ammonia
CAS Number:	NA - 16
On a facility-wide basis:	Amount Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	0.0000 Mg
The amount of substance that was created:	BT Mg
The amount of substance that was contained in product:	0.0000 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

Substance:	Chromium (and its compounds)
CAS Number:	NA - 04
On a facility-wide basis:	Amount Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	>100 - 1000 Mg
The amount of substance that was created:	0.0000 Mg
The amount of substance that was contained in product:	0.0000 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

Substance:	Cobalt (and its compounds)
CAS Number:	NA - 05
On a facility-wide basis:	Amount Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	>100 - 1000 Mg
The amount of substance that was created:	0.0000 Mg
The amount of substance that was contained in product:	0.0000 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:	Copper (and its compounds)
CAS Number:	NA - 06
On a facility-wide basis:	Amount Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	>10 - 100 Mg
The amount of substance that was created:	0.0000 Mg
The amount of substance that was contained in product:	0.0000 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:	Cyanides (ionic)
CAS Number:	NA - 07
On a facility-wide basis:	Amount Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	>100 - 1000 Mg
The amount of substance that was created:	0.0000 Mg
The amount of substance that was contained in product:	0.0000 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:	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:	>100 - 1000 Mg
The amount of substance that was created:	0.0000 Mg
The amount of substance that was contained in product:	0.0000 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:	Nickel (and its compounds)
CAS Number:	NA - 11
On a facility-wide basis:	Amount Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	>10 - 100 Mg
The amount of substance that was created:	0.0000 Mg
The amount of substance that was contained in product:	0.0000 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

Substance:	Nitric acid
CAS Number:	7697-37-2
On a facility-wide basis:	Amount Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	>10 - 100 Mg
The amount of substance that was created:	0.0000 Mg
The amount of substance that was contained in product:	0.0000 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:	Vanadium
CAS Number:	7440-62-2
On a facility-wide basis:	Amount Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	>100 - 1000 Mg
The amount of substance that was created:	0.0000 Mg
The amount of substance that was contained in product:	0.0000 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:	Zinc (and its compounds)
CAS Number:	NA - 14
On a facility-wide basis:	Amount Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	>100 - 1000 Mg
The amount of substance that was created:	0.0000 Mg
The amount of substance that was contained in product:	0.0000 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:	Arsenic (and its compounds)
CAS Number:	NA - 02
On a facility-wide basis:	Amount Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	>100 - 1000 kg
The amount of substance that was created:	0.0000 kg
The amount of substance that was contained in product:	0.0000 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:	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:	>100 - 1000 kg
The amount of substance that was created:	0.0000 kg
The amount of substance that was contained in product:	0.0000 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 Accounting

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:	<table border="1"> <tr><td>>100 - 1000</td><td>kg</td></tr> <tr><td>0.0000</td><td>kg</td></tr> <tr><td>0.0000</td><td>kg</td></tr> </table>	>100 - 1000	kg	0.0000	kg	0.0000	kg
>100 - 1000	kg						
0.0000	kg						
0.0000	kg						
The amount of substance that was created:							
The amount of substance that was contained in product:							
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:	Selenium (and its compounds)						
CAS Number:	NA - 12						
On a facility-wide basis:	Amount Units						
Amount that entered the facility as the substance itself or as a constituent of another substance:	<table border="1"> <tr><td>>100 - 1000</td><td>kg</td></tr> <tr><td>0.0000</td><td>kg</td></tr> <tr><td>0.0000</td><td>kg</td></tr> </table>	>100 - 1000	kg	0.0000	kg	0.0000	kg
>100 - 1000	kg						
0.0000	kg						
0.0000	kg						
The amount of substance that was created:							
The amount of substance that was contained in product:							
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:	Thallium						
CAS Number:	NA - 37						
On a facility-wide basis:	Amount Units						
Amount that entered the facility as the substance itself or as a constituent of another substance:	<table border="1"> <tr><td>>100 - 1000</td><td>kg</td></tr> <tr><td>0.0000</td><td>kg</td></tr> <tr><td>0.0000</td><td>kg</td></tr> </table>	>100 - 1000	kg	0.0000	kg	0.0000	kg
>100 - 1000	kg						
0.0000	kg						
0.0000	kg						
The amount of substance that was created:							
The amount of substance that was contained in product:							
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 (TPM)						
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:	<table border="1"> <tr><td>0.0000</td><td>Mg</td></tr> <tr><td>>10 - 100</td><td>Mg</td></tr> <tr><td>NA</td><td>Mg</td></tr> </table>	0.0000	Mg	>10 - 100	Mg	NA	Mg
0.0000	Mg						
>10 - 100	Mg						
NA	Mg						
The amount of substance that was created:							
The amount of substance that was contained in product:							
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 (10)						
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:	<table border="1"> <tr><td>0.0000</td><td>Mg</td></tr> <tr><td>>10 - 100</td><td>Mg</td></tr> <tr><td>NA</td><td>Mg</td></tr> </table>	0.0000	Mg	>10 - 100	Mg	NA	Mg
0.0000	Mg						
>10 - 100	Mg						
NA	Mg						
The amount of substance that was created:							
The amount of substance that was contained in product:							
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

Substance:
CAS Number:

Particulate Matter (2.5)
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:
The amount of substance that was created:
The amount of substance that was contained in product:

0.0000	Mg
>1 - 10	Mg
NA	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 2018

Substances for which toxic substance reduction plans have been prepared:

Substance	CASRN
Chromium (and its compounds)	NA - 04
Cobalt (and its compounds)	NA - 05
Copper (and its compounds)	NA - 06
Cyanides (ionic)	NA - 07
Manganese (and its compounds)	NA - 09
Nickel (and its compounds)	NA - 11
Nitric acid	7697-37-2
Vanadium	7440-62-2
Zinc (and its compounds)	NA - 14
Arsenic (and its compounds)	NA - 02
Cadmium (and its compounds)	NA - 03
Lead (and its compounds)	NA - 08
Selenium (and its compounds)	NA - 12
Thallium	NA - 37
Particulate Matter (TPM)	NA - M08
Particulate Matter (10)	NA - M09
Particulate Matter (2.5)	NA - M10

Plan Objectives

Tahoe Canada - Bell Creek Complex is committed to pollution prevention and protecting the environment. Whenever technically and economically feasible, the TahoeCanada - Bell Creek Complex is committed to reduce the use and/or creation of toxic substances identified under the plan in compliance with federal and provincial regulations. Tahoe Canada – Bell Creek Complex is committed to achieving excellence in environmental practices with a goal to minimizing our environmental impact. This includes a proactive approach towards protecting public health and the natural environment through existing and planned environmental and sustainability initiatives.

The Bell Creek Complex is dedicated to reducing its use and creation of toxic substances by continually striving for operational and process efficiency, innovation, and conservation.

Toxics Reduction Progress

Variations in the reported quantities have been observed in several categories including quantity used, contained in product, disposal, recycled and released in air. In all of the cases, variations are due to changes in overall production by the facility and material assays, specifically as they relate to the ore, waste rock and tailings processed by the Facility.

Plan Implementation Progress

There were no reduction options identified in any of the plans for the above noted substances that were identified as being both technically and economically feasible. As such, there were no timelines presented in the reduction plans for the above noted substances. However, Tahoe Canada. will continue to explore and investigate potential reduction options as they arise as part of their sustainability program.

As there were no anticipated reductions noted in each of the plans for the toxic substances noted above, there were no reductions of any toxic substances during the reporting period that would be attributable to any reduction plan.

Comparison of Reported Amounts

Substance	CASRN	Report Year	Used	Created	In Product	Air	Water	Land	Disposal
Ammonia	NA - 16	2017	BT	BT	BT	BT	BT	BT	BT
		2018	BT	BT	BT	BT	BT	BT	BT
		Change	NA	NA	NA	NA	NA	NA	NA
		Change %	NA	NA	NA	NA	NA	NA	NA
Chromium (and its compounds)	NA - 04	2017	>100 - 1000	0.000	0.000	>0 - 1	>0 - 1	>1 - 10	>10 - 100
		2018	>100 - 1000	0.000	0.000	>0 - 1	>0 - 1	>1 - 10	>100 - 1000
		Change	>10 - 100	0.000	0.000	>0 - 1	>0 - 1	>1 - 10	>10 - 100
		Change %	-25.08%	0.00%	0.00%	-5.73%	-49.33%	67.23%	67.23%
Copper (and its compounds)	NA - 06	2017	>10 - 100	0.000	0.000	>0 - 1	>0 - 1	>1 - 10	>100 - 1000
		2018	>10 - 100	0.000	0.000	>0 - 1	>0 - 1	>1 - 10	>100 - 1000
		Change	>10 - 100	0.000	0.000	>0 - 1	>0 - 1	>0 - 1	>1 - 10
		Change %	-35.6%	0.0%	0.0%	-7.3%	-72.5%	5.1%	5.1%
Cyanides (ionic)	NA - 07	2017	>100 - 1000	0.000	0.000	>1 - 10	>0 - 1	0.000	0.000
		2018	>100 - 1000	0.000	0.000	>1 - 10	>0 - 1	0.000	0.000
		Change	>10 - 100	0.000	0.000	>0 - 1	>0 - 1	0.000	0.000
		Change %	13.8%	0.0%	0.0%	13.8%	-49.5%	0.0%	0.0%
Manganese (and its compounds)	NA - 09	2017	>100 - 1000	0.000	0.000	>0 - 1	>0 - 1	>10 - 100	>100 - 1000
		2018	>100 - 1000	0.000	0.000	>0 - 1	>0 - 1	>10 - 100	>100 - 1000
		Change	>10 - 100	0.000	0.000	>0 - 1	>0 - 1	>1 - 10	>100 - 1000
		Change %	3.8%	0.0%	0.0%	2.7%	-1.7%	11.0%	11.0%
Nickel (and its compounds)	NA - 11	2017	>100 - 1000	0.000	0.000	>0 - 1	>0 - 1	>1 - 10	>10 - 100
		2018	>10 - 100	0.000	0.000	>0 - 1	>0 - 1	>1 - 10	>100 - 1000
		Change	>10 - 100	0.000	0.000	>0 - 1	>0 - 1	>1 - 10	>10 - 100
		Change %	-22.5%	0.0%	0.0%	-5.7%	-51.5%	50.4%	50.4%
Nitric acid	7697-37-2	2017	BT	BT	BT	BT	BT	BT	BT
		2018	>10 - 100	0.000	0.000	>0 - 1	0.000	0.000	0.000
		Change	NA	NA	NA	NA	NA	NA	NA
		Change %	NA	NA	NA	NA	NA	NA	NA
Vanadium	7440-62-2	2017	>100 - 1000	0.000	0.000	>0 - 1	>0 - 1	>1 - 10	>100 - 1000
		2018	>100 - 1000	0.000	0.000	>0 - 1	>0 - 1	>10 - 100	>100 - 1000
		Change	>10 - 100	0.000	0.000	>0 - 1	>0 - 1	>0 - 1	>10 - 100
		Change %	-17.6%	0.0%	0.0%	-3.0%	-55.1%	7.6%	7.6%
Zinc (and its compounds)	NA - 14	2017	>100 - 1000	0.000	0.000	>0 - 1	>0 - 1	>1 - 10	>100 - 1000
		2018	>100 - 1000	0.000	0.000	>0 - 1	>0 - 1	>1 - 10	>100 - 1000
		Change	>1 - 10	0.000	0.000	>0 - 1	>0 - 1	>1 - 10	>10 - 100
		Change %	-2.0%	0.0%	0.0%	0.8%	1.9%	29.2%	29.2%
Arsenic (and its compounds) (kg)	NA - 02	2017	>100 - 1000	0.000	0.000	>10 - 100	>10 - 100	>100 - 1000	>100 - 1000
		2018	>100 - 1000	0.000	0.000	>10 - 100	>10 - 100	>100 - 1000	>100 - 1000
		Change	>100 - 1000	0.000	0.000	>0 - 1	>1 - 10	>100 - 1000	>100 - 1000
		Change %	-48.5%	0.0%	0.0%	-5.5%	-22.8%	36.1%	19.6%
Cadmium (and its compounds) (kg)	NA - 03	2017	>100 - 1000	0.000	0.000	>0 - 1	>0 - 1	>10 - 100	>100 - 1000
		2018	>100 - 1000	0.000	0.000	>0 - 1	>0 - 1	>10 - 100	>100 - 1000
		Change	>100 - 1000	0.000	0.000	>0 - 1	>0 - 1	>1 - 10	>100 - 1000
		Change %	215.7%	0.0%	0.0%	17.9%	-53.6%	-31.0%	-31.0%
Cobalt (and its compounds)	NA - 05	2017	>100 - 1000	0.000	0.000	>0 - 1	>10 - 100	>100 - 1000	>100 - 1000
		2018	>100 - 1000	0.000	0.000	>0 - 1	>10 - 100	>100 - 1000	>100 - 1000
		Change	>100 - 1000	0.000	0.000	>0 - 1	>10 - 100	>100 - 1000	>100 - 1000
		Change %	10.5%	0.0%	0.0%	2.8%	-74.3%	15.7%	15.7%
Lead (and its compounds) (kg)	NA - 08	2017	>100 - 1000	0.000	0.000	>100 - 1000	>1 - 10	>100 - 1000	>100 - 1000
		2018	>100 - 1000	0.000	0.000	>100 - 1000	>0 - 1	>100 - 1000	>100 - 1000
		Change	>100 - 1000	0.000	0.000	>1 - 10	>0 - 1	>10 - 100	>100 - 1000
		Change %	-13.1%	0.0%	0.0%	-6.2%	-44.6%	2.2%	1.3%
Selenium (and its compounds) (kg)	NA - 12	2017	>100 - 1000	0.000	0.000	>0 - 1	>1 - 10	>10 - 100	>100 - 1000
		2018	>100 - 1000	0.000	0.000	>0 - 1	>1 - 10	>100 - 1000	>100 - 1000
		Change	>100 - 1000	0.000	0.000	>0 - 1	>1 - 10	>10 - 100	>100 - 1000
		Change %	44.2%	0.0%	0.0%	4.6%	-50.0%	81.1%	81.1%
Thallium (kg)	NA - 23	2017	>100 - 1000	0.000	0.000	>0 - 1	>0 - 1	>10 - 100	>100 - 1000
		2018	>100 - 1000	0.000	0.000	>0 - 1	>0 - 1	>10 - 100	>100 - 1000
		Change	>100 - 1000	0.000	0.000	>0 - 1	>0 - 1	>1 - 10	>10 - 100
		Change %	147.6%	0.0%	0.0%	8.1%	-30.8%	19.3%	19.3%
Particulate Matter (TPM)	NA - M08	2017	0.000	>10 - 100	NA	>10 - 100	NA	NA	NA
		2018	0.000	>10 - 100	NA	>10 - 100	NA	NA	NA
		Change	0.000	>10 - 100	NA	>10 - 100	NA	NA	NA
		Change %	0.0%	36.3%	NA	36.3%	NA	NA	NA
Particulate Matter (10)	NA - M09	2017	0.000	>10 - 100	NA	>10 - 100	NA	NA	NA
		2018	0.000	>10 - 100	NA	>10 - 100	NA	NA	NA
		Change	0.000	>1 - 10	NA	>1 - 10	NA	NA	NA
		Change %	0.0%	25.4%	NA	25.4%	NA	NA	NA
Particulate Matter (2.5)	NA - M10	2017	0.000	>1 - 10	NA	>1 - 10	NA	NA	NA
		2018	0.000	>1 - 10	NA	>1 - 10	NA	NA	NA
		Change	0.000	>0 - 1	NA	>0 - 1	NA	NA	NA
		Change %	0.0%	12.5%	NA	12.5%	NA	NA	NA

Report Certification

As of May 30, 2019, I, Dave Bernier, 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
NA - 04	Chromium (and its compounds)
NA - 06	Copper (and its compounds)
NA - 07	Cyanides (ionic)
NA - 09	Manganese (and its compounds)
NA - 11	Nickel (and its compounds)
7697-37-2	Nitric Acid
7440-62-2	Vanadium
NA - 14	Zinc (and its compounds)
NA - 02	Arsenic (and its compounds)
NA - 03	Cadmium (and its compounds)
NA - 05	Cobalt (and its compounds)
NA - 08	Lead (and its compounds)
NA - 12	Selenium (and its compounds)
NA - 23	Thallium (and its compounds)
NA - M08	Particulate Matter (TPM)
NA - M09	Particulate Matter (PM10)
NA - M10	Particulate Matter (PM2.5)

The original version of this report is signed off by:

Highest Ranking Employee:

Title:

Phone Number:

Dave Bernier
General Manager Canadian Operations
(705) 269-4344 Ext. 4313

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.