North American Palladium Ltd. - Lac des Iles Mine

Ontario's Toxic Reduction Act - Public Report

 Date of Most Recent Plan
 December 31st, 2013

 Report Date
 June 1st, 2014

This Public Report covers the following group of substances:

Substance Name	Chemical Abstracts Service (CAS) No.		
Arsenic (and its compounds)	7440-38-2		
Cadmium (and its compounds)	7440-43-9		
Chromium (and its compounds)	7440-47-3		
Cobalt (and its compounds)	7440-48-4		
Copper (and its compounds)	7440-50-8		
Lead (and its compounds, except tetraethyl lead)	7439-92-1		
Manganese (and its compounds)	7439-96-5		
Mercury (and its compounds)	7439-97-6		
Nickel (and its compounds)	7440-02-0		
Selenium (and its compounds)	7782-49-2		
Vanadium (and its compounds)	7440-62-2		
Zinc (and its compounds)	7440-66-6		
Particulate Matter (PM)	N/A-M08		
Particulate Matter <10 mm diameter (PM10)	N/A-M09		
Particulate Matter < 2.5 mm diameter (PM2.5)	N/A-M10		

Objectives and Targets of the Plan

The facility has set the following objectives intended to support the Statement of Intent through ongoing efforts to improve process efficiencies and waste reductio Ongoing research and testing of alternate flotation agents to improve recovery efficiencies;

Ongoing research and evaluation of new mill equipment, upgrades and improvements intended to improve the recovery efficiencies;

Ongoing research into alternative end uses for tailing materials; and

Ongoing improvements to the facility's fugitive dust management activities to reduce overall particulate emissions from the site.

There have benn no Targets set for these Objectives

Facility	Identification	and Address
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Company Name	North American Palladium Ltd.
Facility Name	Lac des Iles Mines Ltd.

Facility Physical Address Unnumbered, signed, private road on the West side of Ontario Route 527

Street Approximately 95 km north of the connection to Highway 17/11 (Trans-Canada Highway)

City Thunder Bay

Province Ontario
Facility Mailing Address P.O.Box 10547

 City
 Thunder Bay

 Province
 Ontario

 Postal Code
 P78 679

 Facility Location-Geopgraphical Reference
 UTM Easting 309000

*Expressed as UTM Coordinates within the NAD82 data set

Number of full-time employees

National Pollutant Release Inventory (NPRI) Identification Number

Ontario Regulation 127/01 Identification Number

UTM Northing 5449000

397

National Pollutant Release Inventory (NPRI) Identification Number

5414

Parent Company Identification and Address

Parent Company Information

 Name
 North American Palladium Ltd.

 Street Address
 200 Bay Street - Unit 2350

 City
 Toronto

 Province
 Ontario

 Postal Code
 M53 232

 Percent Ownership
 100%

Primary North American Industry Classification System (NAICS) Code

North American Industry Classification System (NAICS)

The two-digit NAICS Canada code: 21 Mining

The two-digit NAICS Canada code:
The four-digit NAICS Canada code:
The six-digit NAICS Canada code:

Company Contact Information

Public Contact

Name Position Address

Phone No.

Mike Wanecki

Environmental Superintendent

Same as Facility 807.448.2237

416.360.7590

Parent Company Contact Information

Public Contact

Name

Position Address Tess Lofsky

Vice President, General Counsel & Corporate Secretary Same as above (Bay St., Toronto)

Phone No.

Progress Towards Implemention of the Plan

The following toxic substance reduction options have been identified for implementation on site:

Develop road and stockpile Fugitive Dust Best Management Practices (BMP) Plan

It is not possible at this time to quantify the emission reductions associated with the development of the BMP.

The facility completed the development of a formal BMP in March of 2013, aproximately three (3) months behind schedule.

The facility worked towards implementation of the BMP as described in the Plan and met the implementation goal of April 2013.

Provide Fugitive Dust Best Management Practices training to relevant staff

It is not possible at this time to quantify the emission reductions associated with the development of or implementation of the BMP training program.

The facility continued working towards the development of the Fugitive dust BMP Training program as described in the Plan, but its completion has been delayed unti 2015.

Aditional Reduction Activities

There were no additional activities outside the scope of the plan that reduced the use, creation, release, disposal, recycling or quantity contained in product of any toxic substances included in the Plan in 2013.

Toxic Substace Acounting

Compound	CAS No.	Year	Used / Entering Process (Tonne/year)	Created (Tonne/year)	Released to Air (Tonne/year)	Released to Land (Tonne/year)	Released to Water (Tonne/year)	Contained in Product (Tonne/year)	Transfers for Disposal (Tonne/year)
Arsenic	7440382	2013		===	0.0005	2.0	0	0.25	122
		2012	3.7		0.0005	3.8	0.00084	0.27	**
Year / Year C	hange	Percent (%)	1%	0%	-15%	-88%		-5%	
		Mass (Tonne)	0		-0.0001	-1.8	0	0	**
Cadmium	7440439	2013	0.26		0.00003	0.20	0	0.04	***
		2012	0.25	***	0.00004	0,13	0	0.045	· · · ·
Year / Year C	hange	Percent (%)	1%	0%	-15%	36%	4	-5%	4.0
	1	lass (Tonne)	0	**	-0.000005	0	0	0	
Chromium	7440473	2013	309		0.037	389	0	4.6	
		2012	304		0.042	932	0	4.8	
Year / Year Change		Percent (%)	1%	0%	-15%			-5%	
	1	Mass (Tonne)	4		-0.005		0	0	**
Cobalt	7440484	2013	188		0.012	101	0	23	
		2012	186		0.016	113	0	25	
Year / Year Ch	hange	Percent (%)	1%	0%	-27%		8	-5%	
	_	lass (Tonne)	3		-0.003		0	-1	**
Copper	7440508	2013	1730		0.061	309	0.0014	1188	
		2012	1424		0.084	655	0.010	1252	
Year / Year C	hange	Percent (%)	18%	0%	-39%		-642%	-5%	
		lass (Tonne)	307	- 4	-0.024		-0.009	-64	
Lead	7439921	2013	23		0.022	5	0.0001	2.4	**
		2012	23		0.022	4	0.0006	2.5	1.92
Year / Year C	hange	Percent (%)	1%	0%	-2%		-1032%	-5%	341
	1	lass (Tonne)	0.3		-0.0004		0	0	**
Manganese	7439965	2013	1990	344	0.24	1784	ō	5.8	
_		2012	1961		0.27	2196	0	6.1	**
Year / Year C	hange	Percent (%)	1%	0%	-15%	-23%		-5%	22
	Ň	lass (Tonne)	29		-0.035	-411	0	0	
Mercury	7439976	2013	0.31		0.00004	0.011	0.000003	0.0025	**
		2012	0.31		0.00005	0.011	0	0.0027	**
Year / Year C	hange	Percent (%)	1%	0%	-13%	-1%	100%	-5%	**
	N	lass (Tonne)	0.005	**	-0.000005	-0.0001	0	-0.0001	(44)

Compound	CAS No.	Year	Used / Entering Process (Tonne/year)	Created (Tonne/year)	Released to Air (Tonne/year)	Released to Land (Tonne/year)	Released to Water (Tonne/year)	Contained in Product (Tonne/year)	Transfers for Disposal (Tonne/year)
Nickel	7440020	2013	2432		0	1390	0.016	679	
		2012	2393		0	1179	0.059	715	
Year / Year (hange	Percent (%)	2%	0%	-28%	15%	-279%	-5%	
		Mass (Tonne)	38	**	0	211	0	-37	
Selenium	7782492	2013	6.1	**	0.0007	2.0	0	2	
		2012	6.0	**	0.0008	2.1	0	3	**
Year / Year Change		Percent (%)	1%	0%	-15%	-5%		-5%	**
		Mass (Tonne)	0.1	**	-0.0001	-0.1	0	0	**
Vanadium 7	7440622	2013	205		0	213	0	0.68	
		2012	202		0	294	0	0.72	
Year / Year Change		Percent (%)	1%	0%	-15%	-38%		-5%	
		Mass (Tonne)	3	**	-0.004	-80	0	-0.037	
Zinc	7440666	2013	88	**	0.011	82	0.0006	12	
		2012	87		0.012	98	0.0051	13	
Year / Year C	hange	Percent (%)	1%	0%	-15%	-20%	-797%	-5%	
		lass (Tonne)	1	44	-0.002	-16	-0.0045	-1	
PM	N/A-M08	2013		272	272		**	11 <u>4</u>	
		2012	**	363	363			24	
Year / Year Change		Percent (%)		-33%	-33%	-		1077	**
		lass (Tonne)	**	-91	-91		**		
PM10	N/A-M09	2013	**	74	74		**	**	
		2012	**	68	68		**	**	**
Year / Year Change		Percent (%)	**	9%	9%		**	732	44
		fass (Tonne)		7	7	***		**	**
PM2.5	N/A-M10	2013	**	11	11	344		**	**
		2012		6	6	**	**		
rear / Year C	hange	Percent (%)		38%	38%				
	Ň	lass (Tonne)		4	4			**	**

Plan Amendments

There were no amendments made to the Plan durung 2013.

Other Toxic Substances Requiring Plans to be Prepared

Not Applicable

Certification

As of June 1, 2014, I certify that I have read the reports on the toxic substance reduction plans for the above listed compounds, and to my knowledge the information contained in the report is factually accurate and the reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under the Act.

Highest Ranking Employee / Certifying Official:

Phil du Toit President

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