Report Preview **Company Details** Name Liberty Mines Inc Address Stringers Road, South Porcupine (Ontario) Report Details Report Status Submitted 2014 Report Type Inventory **Facility Name** Redstone Mine **Facility Address** Stringers Road, South Porcupine (Ontario) **Update Comments Activity Details** Applicable Programs Please select all that apply. **Environment Canada Programs** \times NPRI - National Pollutant Release Inventory **Partnering Programs** $|\mathsf{X}|$ ON MOE TRA - Ontario Ministry of the Environment for the Toxic Reductions Act

ON MOE Reg. 127/01 - Ontario Ministry of the Environment for the Airborne Contaminant Discharge

Monitoring and Reporting Regulation

	NERM - Chemistry Industry Association of Canada for the National Emission Reduction Masterplan survey
	NFPRER - National Framework for Petroleum Refinery Emission Reductions
Cor	ntacts
	et the appropriate person from the drop-down menu for each contact.
Fac	ility Contacts
	et the appropriate person from the drop-down menu for each contact.
Techi	nical Contact: *
Russ	ell Polack
Certif	ying Official (or authorized delegate): *
Mark	Trevisiol
Highe	est Ranking Employee: *
Mark	Trevisiol
Perso	on who prepared the report: *
Russ	sell Polack
	on who coordinated the preparation of the Toxics Reduction Plan (required after a plan summary has submitted)
Russ	ell Polack
Comp	pany Coordinator (optional)
Brian	Kett
Public	c Contact (optional)
Brian	Kett
Contr	ractor Contact (optional)
	sell Polack
IXUSS	I Clack
If you	are an independent contractor or consultant, please enter your company name in the field below
Gold	er Associates Ltd.
Rea	asons for adding/removing substances
Sub	estances added to the report
	se indicate the reasons why the following substances were added to the report:

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CAS RN	Substance Name	Comment: *	
NA - 10	Mercury (and its compounds)	Substance did not trigger in 2013 when the facility was on care and maintenance.	
NA - 14	Zinc (and its compounds)	Substance did not trigger in 2013 when the facility was on care and maintenance.	
7440-62-2	Vanadium (and its compounds)	Substance did not trigger in 2013 when the facility was on care and maintenance.	
NA - 13	Silver (and its compounds)	Substance did not trigger in 2013 when the facility was on care and maintenance.	
NA - 12	Selenium (and its compounds)	Substance did not trigger in 2013 when the facility was on care and maintenance.	
NA - 11	Nickel (and its compounds)	Substance did not trigger in 2013 when the facility was on care and maintenance.	
NA - 09	Manganese (and its compounds)	Substance did not trigger in 2013 when the facility was on care and maintenance.	
NA - 08	Lead (and its compounds)	Substance did not trigger in 2013 when the facility was on care and maintenance.	
NA - 06	Copper (and its compounds)	Substance did not trigger in 2013 when the facility was on care and maintenance.	
NA - 05	Cobalt (and its compounds)	Substance did not trigger in 2013 when the facility was on care and maintenance.	
NA - 04	Chromium (and its compounds)	Substance did not trigger in 2013 when	

the facility was on care and maintenance.

NA - 03	Cadmium (and its compounds)	Substance did not trigger in 2013 when the facility was on care and maintenance.
NA - 02	Arsenic (and its compounds)	Substance did not trigger in 2013 when the facility was on care and maintenance.

Substances removed from the report

Please indicate the reasons why the following substances were removed from the report:

Empty

Employees and Activities

Employees

Number of Employees *

33

Activities

If your facility was engaged in any of the following activities, check the relevant box(es), otherwise click "None of the Above". For the second "Activities" list, if you select one of these activities then you must report dioxins, furans and hexachlorobenzene.

Activities for Which the 20,000-Hour Employee Threshold Does Not Apply: (check all that apply) *

None of the above

Activities Relevant to Reporting Dioxins, Furans and Hexacholorobenzene: (check all that apply) *

None of the above

Activities Relevant to Reporting of Polycyclic Aromatic Hydrocarbons (PAHs)

Did the following activity take place at the facility?

Wood preservation using creosote: *

No

General Facility Information

NPRI						
Is this the	e first time the fa	cility is reporting	to the NPRI (u	nder current or	past ownership))? *
No						
Is the fac	ility controlled by	/ another Canac	lian company o	r companies? *		
No						
Did the fa	acility report unde	er other environ	mental regulation	ons or permits?	*	
No						
Is the fac	ility required to r	eport one or mo	re NPRI Part 4	substances (C	riteria Air Contar	ninants)? *
Yes	, , , , , , , ,			(5		
If 'Yes' to during the	reporting for one e year? **	e or more Part 4	substances:W	as the facility s	hut down for mo	re than one week
Opera	ting Sched	ule - Days o	of the Wee	k **		
Mon	Tue	Wed	Thu	Fri	Sat	Sun
\boxtimes	X	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes
Opera	ting Schedu	ule - Hours	**			
Usual Nu	ımber of Opera	ting Hours per	day U	sual Daily Sta	rt Time (24h) (h	h:mm)
24			С	6:00		
Shutdo	own Period	c **				
	a shutdown per		sign to the righ	nt side of the sc	reen.	
Gener	al Commer	nts for Facil	ity			
Commen	ts					
Verify	Facility Info	ormation				
Compa	any Informa	ation				
Compa	any Details					
Company	Legal Name		L	iberty Mines In	C	

Business Number	891339566			
Mailing Address				
Delivery Mode	Post Office Box			
PO Box	5114			
Rural Route Number				
Address Line 1	Stringers Road			
City *				
City	South Porcupine			
Province/Territory **	Ontario			
Postal Code: **	P0N1H0			
Country *	Canada			
Facility Information				
Facility *	Redstone Mine			
NAICS Code *	212232			
NPRI ID *	11514			
Facility Physical Address				
Address Line 1	Stringers Road			
City	South Porcupine			
Province/Territory	Ontario			
Postal Code	P0N1H0			
Country	Canada			
Additional Information				
Land Survey Description				
National Topographical Description				

Geographical Address			
Latitude **	48.36120		
Longitude **	-81.11660		
UTM Zone **	17		
UTM Easting **	488447		
UTM Northing **	5351571		
Facility Contacts			
Contact Types			
Technical Contact			
First Name: *	Russell		
Last Name: *	Polack		
Position: *	Air Quality Specialist		
Telephone: *	7055246861		
Ext	2495		
Fax	7055241984		
Email: *	Russell_Polack@Golder.com		
Mailing Address			
Delivery Mode	General Delivery		
PO Box			
Rural Route Number			
Address Line 1	Suite 100 - 33 Mackenzie Srt Street		
City *	Sudbury		
Province/Territory **	Ontario		
Postal Code: **	P3C4Y1		

Country *	Canada		
Certifying Official			
First Name: *	Mark		
Last Name: *	Trevisiol		
Position: *	Site Manager		
Telephone: *	7052406450		
Ext	5001		
Fax			
Email: *	mtrevisiol@northernsunmining.ca		
Mailing Address			
Delivery Mode	General Delivery		
PO Box			
Rural Route Number			
Address Line 1	Stringers Road		
City *	South Porcupine		
Province/Territory **	Ontario		
Postal Code: **	P0N1H0		
Country *	Canada		
Highest Ranking Employee			
First Name: *	Mark		
Last Name: *	Trevisiol		
Position: *	Site Manager		
Telephone: *	7052406450		

Ext	5001		
Fax			
Email: *	mtrevisiol@northernsunmining.ca		
Mailing Address			
Delivery Mode	General Delivery		
PO Box			
Rural Route Number			
Address Line 1	Stringer's Road		
City *	South Porcupine		
Province/Territory **	Ontario		
Postal Code: **	P0N1H0		
Country *	Canada		
Person who prepared the report			
First Name: *	Russell		
Last Name: *	Polack		
Position: *	Air Quality Specialist		
Telephone: *	7055246861		
Ext	2495		
Fax	7055241984		
Email: *	Russell_Polack@Golder.com		
Mailing Address			
Delivery Mode	General Delivery		
PO Box			

Rural Route Number	
Address Line 1	Suite 100 - 33 Mackenzie Street
City *	Sudbury
Province/Territory **	Ontario
Postal Code: **	P3C4Y1
Country *	Canada
Contractor Contact	
First Name: *	Russell
Last Name: *	Polack
Position: *	Air Quality Specialist
Telephone: *	7055246861
Ext	2495
Fax	7055241984
Email: *	Russell_Polack@Golder.com
Mailing Address	
Delivery Mode	
PO Box	
Rural Route Number	
Address Line 1	1010 Lorne
City *	Sudbury
Province/Territory **	Ontario
Postal Code: **	P3C4Y1
Country *	Canada

Company Coordinator				
First Name: *	Brian			
Last Name: *	Kett			
Position: *	Environmental Coordinator			
Telephone: *	7052406450			
Ext	5052			
Fax	7052406451			
Email: *	bkett@northernsunmining.ca			
Mailing Address				
Delivery Mode	Post Office Box			
PO Box	5114			
Rural Route Number				
Address Line 1				
City *	South Porcupine			
Province/Territory **	Ontario			
Postal Code: **	P0N1H0			
Country *	Canada			
Person who coordinated the preparation of the Toxics Reduction Plan				
First Name: *	Russell			
Last Name: *	Polack			
Position: *	Air Quality Specialist			
Telephone: *	7055246861			
Ext	2495			

Fax			
Email: *	Russell_Polack@Golder.com		
Mailing Address			
Delivery Mode	General Delivery		
PO Box			
Rural Route Number			
Address Line 1	Suite 100 - 33 Mackenzie Street		
City *	Sudbury		
Province/Territory **	Ontario		
Postal Code: **	P3C4Y1		
Country *	Canada		
Public Contact			
First Name: *	Brian		
Last Name: *	Kett		
Position: *	Environmental Coordinator		
Telephone: *	7052406450		
Ext	5052		
Fax			
Email: *	bkett@northernsunmining.ca		
Mailing Address			
Delivery Mode	General Delivery		
PO Box			
Rural Route Number			

Address Line 1	Stringer's Road	
City *	Sudbury	
Province/Territory **	Ontario	
Postal Code: **	P0N1H0	
Country *	Canada	
Pollution Prevention		
Pollution Prevention Plans		
Does the facility have a documented pollution preventi	on plan? *	
No		
If 'Yes'		
a) Please check all that apply		
b) Did the facility update their plan in the current reporting year?		
c) Does the plan address substances, energy conservation, or water conservation?		
Please summarize your pollution prevention plan and/or your pollution prevention activities (this information will be publicly available) **		
Pollution Prevention Activities		
Did the facility complete any pollution prevention activities in the current NPRI reporting year? *		
No		
Selecting "Yes" will initiate the reporting of the specific pollution prevention activities that were completed in the current reporting year on the following screen.		
Substance Details		
NA - M09, PM10 - Particulate Matter <= 10 Microns		
NA - M09, PM10 - Particulate Matter <= 10 Microns		

Substance Reporting Status Applicable Programs NPRI - Does this substance meet the criteria specified in the Canada Gazette notice? Selecting "No" indicates voluntary reporting of this substance to the NPRI. Yes ON MOE TRA - Does this substance meet the criteria specified in the Ontario Regulation 455/09 under the TRA? Selecting "No" indicates voluntary reporting of this substance to the ON MOE. Yes Is this considered the first report for this substance to the ON MOE TRA? (Please select "Help" for further clarification) 3 No Would you like to create an exit record for this ON MOE TRA substance? * No Comments TRA Quantifications Enters the facility (Use), Creation, Contained in Product for ON MOE TRA Enters the facility (Use) The amount of substance that enters a process as the substance itself or part of another substance, rolled up at the facility level. Quantity (Tonnes) ** 0 Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. Yes Creation The amount of substance that is created

3.388

Quantity (Tonnes) **

Do you want to use ranges for pulpublic may contain the exact quar	blic reporting? If "No" is selected you antity provided. *	are indicating that any report to the
Yes		
Change in Method of Q	uantification	
There has been a change is substance during the previous	in the method or combination of metho ous calendar year	ods used to track and quantify the
Describe the changes **		
Select the reason for change: **		
Describe how the change impact	tracking and quantification of the subs	stance **
Incidents out of the nor	mal course of events	
	out of the normal course of events the affected the results of tracking/quant	
Explain how tracking and quantific	cations were affected **	
Significant Process Cha	ange	
There has been a significa	nt process change at the facility during	g the previous calendar year.
On-site Releases Click "Edit" to enter your reportab	le values.In order to calculate totals, y	ou must click the "Validate" button.
Enter the values for rele	eases to air for the substa	nce
Releases to Air		
Category	Basis Of Estimate	Quantity (Tonnes)
Stack or Point Releases	E2 - Published Emission Factors	0.2677
Storage or Handling Releases	NA - Not Applicable	
Fugitive Releases	E2 - Published Emission Factors	0.7560

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Spills	NA - Not Applica	able	
Other Non-point Releases	NA - Not Applica	able	
Road Dust	E2 - Published E	Emission Factors 2	2.3642
Total - Releases to Air			
3.3879			
Breakdown of Ann ☐ Distribute Equally Monthly Releases			
January %	February %	March %	April %
8.33	8.33	8.34	8.33
May %	June %	July %	August %
8.33	8.34	8.33	8.33
September %	October %	November %	December %
8.34	8.33	8.33	8.34
Total %			
100.00			
Reasons for Chan	ges in Quantities F	Released from	Previous Year
Select the applicable reas	on or reasons *		
Changes in production lev	vels		
Comments ? (On-Site Rele			

Comparison Report: Enters, Creation, Contained in Product

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report.

Therefore, you will be required to update all values and texts.

Enters the facility (Use)

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2013	0	

Creation

Creation

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
3.388	0.9572	2013	2.4308	253.95

Reasons for Change

Reasons for Change

Reason(s) for Change

Increase in production levels

(please specify)

Comparison Report: On-site Releases

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Total Releases to Air

Total Releases to Air

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
3.3879	0.9572	2013	2.4307	253.94

Total Releases to Water

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2013	0	
T (D				
Total Release				
Total Release	s to Land			
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	
.				
Reasons for C				
Reasons for C	hange			
Reason(s) for Chang	је			
Increase in production	on levels			
(please specify)				
NIA MAO DI	12 5 Portioul	oto Mottor 2 l	E Mioropo	
NA - M10, PM NA - M10, PM2.5 - I		ate Matter <= 2.5 = 2.5 Microns	o iviicions	
· · · · · · · · · · · · · · · · · · ·				
Substance Re	porting Status	3		
		5		
Applicable Pro	ograms		nada Gazette no	ntice? Selecting "No"
Applicable Pro	ograms bstance meet the cri	teria specified in the Ca	nada Gazette no	otice? Selecting "No"
Applicable Pro	ograms bstance meet the cri	teria specified in the Ca	nada Gazette no	ntice? Selecting "No"
Applicable Pro NPRI - Does this sub indicates voluntary re Yes ON MOE TRA - Doe	ograms bstance meet the cri eporting of this subs	teria specified in the Ca stance to the NPRI. *	in the Ontario Re	egulation 455/09 under th
Yes ON MOE TRA - Doe	ograms bstance meet the cri eporting of this subs	teria specified in the Ca stance to the NPRI. *	in the Ontario Re	egulation 455/09 under th
Applicable Pro NPRI - Does this sub indicates voluntary re Yes ON MOE TRA - Doe TRA? Selecting "No"	bstance meet the cri eporting of this subs es this substance me indicates voluntary	teria specified in the Castance to the NPRI. * eet the criteria specified reporting of this substa	in the Ontario Rence to the ON M	egulation 455/09 under th

Would you like to create an exit record for this ON MOE TRA substance? *
No
Comments
TRA Quantifications
Enters the facility (Use), Creation, Contained in Product for ON MOE TRA
Enters the facility (Use)
The amount of substance that enters a process as the substance itself or part of another substance, rolled up at the facility level.
Quantity (Tonnes) **
0.000
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes
Creation
The amount of substance that is created
Quantity (Tonnes) **
0.387
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes
Change in Method of Quantification
There has been a change in the method or combination of methods used to track and quantify the substance during the previous calendar year
Describe the changes **
Select the reason for change: **

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Describe how the change impact	tracking and quantification of the subs	stance **
Incidents out of the nor	mal course of events	
There have been incidents	out of the normal course of events the taffected the results of tracking/quant	
Explain how tracking and quantific	cations were affected **	
Significant Process Cha	ange	
☐ There has been a significa	nt process change at the facility during	g the previous calendar year.
On-site Releases		
, ,	le values.In order to calculate totals, y	
Enter the values for rel	eases to air for the substa	nce
Releases to Air		
Category	Basis Of Estimate	Quantity (Tonnes)
Stack or Point Releases	E2 - Published Emission Factors	0.1502
Storage or Handling Releases	NA - Not Applicable	
Fugitive Releases	NA - Not Applicable	
Spills	NA - Not Applicable	
Other Non-point Releases	NA - Not Applicable	
Road Dust	E2 - Published Emission Factors	0.2364
Total - Releases to Air		
0.3866		
Breakdown of Annual F	Releases	
☐ Distribute Equally		

Monthly Releases

January %	February %	March %	April %
8.33	8.33	8.34	8.33
May %	June %	July %	August %
8.33	8.34	8.33	8.33
September %	October %	November %	December %
	8.33	8.33	8.34

Reasons for Changes in Quantities Released from Previous Year

Select the applicable reason or reasons *

No significant change (i.e. < 10%) or no change

Comments ? (On-Site Releases) **

Comparison Report: Enters, Creation, Contained in Product

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Enters the facility (Use)

Enters the facility (Use)

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0.000	0	2013	0.000	

Creation

Creation

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change

0.387	0.3913	2013	-0.0043	-1.10
Reasons for C	Change			
Reasons for C	Change			
Reason(s) for Chang	•			
No reasons - quanti	ties approximately th	ne same		
(please specify)				
year's reporting to the previous year's repo	eported Quantity" and le last year's values. It will be inserted into the required to update S to Air	d the "Reporting Period	population function	ed quantity" reflect current on, the exact values in your he comparison report.
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0.3866	0.3913	2013	-0.0047	-1.20
Total Release	s to Water			
Total Release				
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2013	0	
Total Release	s to Land			
Total Release	s to Land			
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2013	0	

Reasons for Change
Reasons for Change
Reason(s) for Change
No reasons - quantities approximately the same
(please specify)
NA - 02, Arsenic (and its compounds)
NA - 02, Arsenic (and its compounds)
Substance Reporting Status
Applicable Programs
NPRI - Does this substance meet the criteria specified in the Canada Gazette notice? Selecting "No" indicates voluntary reporting of this substance to the NPRI. *
Yes
ON MOE TRA - Does this substance meet the criteria specified in the Ontario Regulation 455/09 under the TRA? Selecting "No" indicates voluntary reporting of this substance to the ON MOE. *
Yes
Is this considered the first report for this substance to the ON MOE TRA? (Please select "Help" for further clarification) *
No
Would you like to create an exit record for this ON MOE TRA substance? *
No
Comments
General Information about the Substance
Releases and Transfers of the Substance
Releases and Transfers of the Substance
Was the substance released on-site? *
Yes

Disposals and Off-site Transfers for Recycling
Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal? *
Yes
Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? *
Yes
Was the substance transferred off-site for recycling? *
No
Nature of Activities *
Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of such activities.
Manufacture the Substance
Process the Substance
As a by-product
Otherwise Use of the Substance
TRA Quantifications
Enters the facility (Use), Creation, Contained in Product for ON MOE TRA
Enters the facility (Use)
The amount of substance that enters a process as the substance itself or part of another substance, rolled up at the facility level.
Quantity (kg) **
3617.580
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes
Creation
The amount of substance that is created

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Quantity (kg) **

0	
	ou want to use ranges for public reporting? If "No" is selected you are indicating that any report to the may contain the exact quantity provided. *
Yes	
Con	tained in Product
	mount of substance contained in product
Quan	tity (kg) **
3559	.534
	ou want to use ranges for public reporting? If "No" is selected you are indicating that any report to the may contain the exact quantity provided. *
Yes	
Cha	ange in Method of Quantification
	There has been a change in the method or combination of methods used to track and quantify the substance during the previous calendar year
Desci	ribe the changes **
Selec	t the reason for change: **
Desci	ribe how the change impact tracking and quantification of the substance **
Inci	dents out of the normal course of events
	There have been incidents out of the normal course of events that occurred at the facility during the previous calendar year that affected the results of tracking/quantification of this substance.
Expla	in how tracking and quantifications were affected **
Sigr	nificant Process Change
	There has been a significant process change at the facility during the previous calendar year.

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On-site Releases

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button.

Enter the values for releases to air for the substance

Releases to Air

Basis Of Estimate	Quantity (kg)					
E2 - Published Emission Factors	0.0141					
NA - Not Applicable						
E2 - Published Emission Factors	0.0567					
NA - Not Applicable						
NA - Not Applicable						
Enter the values for releases to water bodies						
Releases to Water Bodies						
Basis Of Estimate	Quantity (kg)					
M1 - Continuous Emission Monitoring	0.0269					
	E2 - Published Emission Factors NA - Not Applicable E2 - Published Emission Factors NA - Not Applicable NA - Not Applicable NA - Not Applicable Bases to water bodies es Basis Of Estimate M1 - Continuous Emission					

Total - Releases to Water Bodies

0.0269

Spills

Leaks

Assign releases to water bodies

Enter your total quantity released to all water bodies in the "Quantity" field under the release category. Then

NA - Not Applicable

NA - Not Applicable

enter the specific quantity released to each water body in the "Quantity" field in each water body section. Your releases from all water bodies must equal the total quantity entered. When finished, click "Save and Return". To add a water body, click the "+" sign. You may leave a water body quantity blank if there are no releases to that water body. To remove a water body from the list, click the "Delete" icon to the right of the water body name.

Assign Releases to Wat	er Bodies	
Enter assigned values for		
Direct Discharges		
Basis Of Estimate		
M1 - Continuous Emission Monitor	ring	
Quantity (kg)		
0.0269		
Water Bodies		
Redstone River		
Water Body		
Redstone River		
Quantity (kg)		
0.0269		
Province		
ON		
Water Shed ID		
Total Assigned (must equal total re	eported)	
0.0269		
Enter the values for rele	ases to land (surface an	d underground)
Releases to Land (the n	ature of "Other" releases	s must be specified in the
Comments)		
Category	Basis Of Estimate	Quantity (kg)
Spills	NA - Not Applicable	

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Leaks	NA - Not A	pplicable				
Other	ther NA - Not Applicable					
Total - Releases to La	nd					
Total Quantity Release	ed					
0.0977						
Breakdown of A	Annual Releases					
☐ Distribute Equa	ılly					
Quarterly Break	rdown *					
Jan - Mar %	Apr - Jun %	Jul - Sep %	Oct - Dec %			
25	25	25	25			
Total 9/						
Total %						
100						
Reasons for Ch	nanges in Quantiti	es Released from	Previous Year			
Select the applicable r	eason or reasons *					
Changes in production	n levels					
Comments ? (On-Site	Releases) **					
The Facility was on ca	are and maintenance in 20	013.				
Dianagala						
Disposals	Cubatanaa Waa D	ionood				
•	Substance Was D	isposea				
Select one or more rea	asons					
Production residues						
On-site Disposa	al (excluding Tailir	ngs and Waste Ro	ock)			
_	•	der to calculate totals, you	must click the "Validate" button.			
On-site Disposa	al					
Category	Basis Of E	stimate (Quantity (kg)			

Landfill	NA - Not Applicable	
Land Treatment	NA - Not Applicable	
Underground Injection	NA - Not Applicable	
Total - On-site Disposals		
Off-site Disposal (exclu	ding Tailings and Waste	Rock)
Off-site Disposal		,
Category	Basis Of Estimate	Quantity (kg)
Landfill	NA - Not Applicable	
Land Treatment	NA - Not Applicable	
Underground Injection	NA - Not Applicable	
Storage	NA - Not Applicable	
Total - Off-site Disposals		
Off-site Transfers (excl	uding Tailings and Waste	e Rock)
,	reatment Prior to Final Di	,
Category	Basis Of Estimate	Quantity (kg)
Physical Treatment	NA - Not Applicable	
Chemical Treatment	NA - Not Applicable	
Biological Treatment	NA - Not Applicable	
Incineration / Thermal	NA - Not Applicable	

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Municipal Sewage Treatment Plant	NA - Not Applicable				
Total - Treatment Prior to Final	Disposal				
Total Quantity Disposed (All Me	edia)				
Disposal of Tailings a	nd Waste Rock				
On-site Disposal of Ta	ailings and Waste Rock	ζ			
Category	Basis Of Estimate	Quantity (kg)			
Tailings Management	M3 - Source Testing	57.948			
Waste Rock Management	NA - Not Applicable				
Total - On-site Disposal of Tailin	ngs and Waste Rock				
57.948					
* Note that this is a Net Quantity or waste rock management are	•	removals of the substance from the tailings			
Off-site Disposal of Ta	ailings and Waste Rock	(
Category	Basis Of Estimate	Quantity (kg)			
Tailings Management	NA - Not Applicable				
Waste Rock Management	NA - Not Applicable				
Total - Off-site Disposal of Tailings and Waste Rock					
Additional Information	- Tailings and Waste I	Rock			
Concentration of the S	_				
Information on Sampling and D					
All samples above detection lin	it				

Average Tailings Concentration (ppm)

Tailings Concentration – additional information	
Concentration of the Substance in Waste Rock	
Information on Sampling and Detection Limits for Waste Rock **	
Average Waste Rock Concentration (ppm)	
Waste Rock Concentration – additional information	
Reasons for excluding quantities in tailings or waste rock	
Reasons for Changes in Quantities Disposed from Previous	Year
Reasons for Changes in Quantities Disposed from Previous Select the applicable reason or reasons.	Year
	Year
Select the applicable reason or reasons.	Year
Select the applicable reason or reasons. Changes in production levels	Year
Select the applicable reason or reasons. Changes in production levels Comments? (Disposals) Facility was on care and maintenance in 2013	Year
Select the applicable reason or reasons. Changes in production levels Comments? (Disposals) Facility was on care and maintenance in 2013 Recycling	
Select the applicable reason or reasons. Changes in production levels Comments? (Disposals) Facility was on care and maintenance in 2013	
Select the applicable reason or reasons. Changes in production levels Comments? (Disposals) Facility was on care and maintenance in 2013 Recycling Reasons for Changes in Quantities Recycled from Previous	

Comparison Report: Enters, Creation, Contained in Product

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Enters the fa	acility (Use)			
Enters the fa	acility (Use)			
Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change
3617.580	461.110	2012	3156.470	684.54
Creation				
Creation				
Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2013	0	
Contained in				
Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change
3559.534	0	2012	3559.534	100
Reasons for	Change			
Reasons for	Change			
Reason(s) for Cha	ange			
Increase in produ	ction levels			
(please specify)				

Comparison Report: On-site Releases

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Total Releases to Air

Total Releases to Air

Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change			
0.0708	0.0030	2012	0.0678	2260.0			
Total Release	s to Water						
Total Release	s to Water						
Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change			
0.0269	0.1113	2012	-0.0844	-75.83			
Total Release Total Release	Total Releases to Land						
Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change			
0	0	2012	0				
Reasons for Change Reason(s) for Change Increase in production levels (please specify)							

Comparison Report: Disposals On-site, Off-site and Tailings and Waste Rock

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Total On-site Disposals Total On-site Disposals Quantity (kg) Last Reported Quantity (kg) * Reporting Period of Last Reported Quantity * Change % Change %

0	0	2012	0	
Total Off-site	e Disposals			
Total Off-site	e Disposals			
Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	
		atment Prior to I		_
		atment Prior to I	•	
Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	
Total On-site	e Disposal of Ta	nilings and Waste	e Rock	
_	•	nilings and Waste		
Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change
57.948	52.4	2012	5.548	10.59
Total Off-site	e Disposal of Ta	illings and Waste	e Rock	
Total Off-site	e Disposal of Ta	illings and Waste	e Rock	
Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	
			-	
Reasons for	Change			
Reasons for	Change			
Reason(s) for Cha	ange			
Increase in produ	ction levels			

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(please specify)

NA - 03, Cadmium (and its compounds)
NA - 03, Cadmium (and its compounds)
Substance Reporting Status
Applicable Programs
NPRI - Does this substance meet the criteria specified in the Canada Gazette notice? Selecting "No" indicates voluntary reporting of this substance to the NPRI. *
Yes
ON MOE TRA - Does this substance meet the criteria specified in the Ontario Regulation 455/09 under the TRA? Selecting "No" indicates voluntary reporting of this substance to the ON MOE. *
Yes
Is this considered the first report for this substance to the ON MOE TRA? (Please select "Help" for further clarification) *
No
Would you like to create an exit record for this ON MOE TRA substance? *
No
Comments
General Information about the Substance
Releases and Transfers of the Substance
Releases and Transfers of the Substance
Was the substance released on-site? *
Yes
Diamondo and Off site Transfers for Decycling
Disposals and Off-site Transfers for Recycling
Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal? *
Yes
Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? *
Yes
Was the substance transferred off-site for recycling? *

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No
Nature of Activities *
Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of such activities.
Manufacture the Substance
Process the Substance
As a by-product
Otherwise Use of the Substance
TRA Quantifications
Enters the facility (Use), Creation, Contained in Product for ON MOE TRA
Enters the facility (Use)
The amount of substance that enters a process as the substance itself or part of another substance, rolled up at the facility level.
Quantity (kg) **
1205.860
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes
Creation
The amount of substance that is created
Quantity (kg) **
0
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes
Contained in Product

The a	amount of substance containe	ed in product	
Quar	tity (kg) **		
1171	.067		
	ou want to use ranges for pub c may contain the exact quar	olic reporting? If "No" is selected you a tity provided. *	are indicating that any report to the
Yes			
Cha	ange in Method of Q	uantification	
	•	n the method or combination of metho	ods used to track and quantify the
Desc	ribe the changes **		
Selec	ot the reason for change: **		
	ar une reason for enange.		
Desc	ribe how the change impact t	racking and quantification of the subs	tance **
Inci	dents out of the nor	mal course of events	
		out of the normal course of events that affected the results of tracking/quant	
Expla	ain how tracking and quantific	cations were affected **	
Sia	nificant Process Cha	ange	
		nt process change at the facility during	the provious calendar year
_	•	it process change at the facility dufing	g the previous calendar year.
	site Releases	a valuas la ardar ta calculata tatala v	ou must slight the "Velidate" button
_		e values.In order to calculate totals, y eases to air for the substa	
	eases to Air		
Cate		Basis Of Estimate	Quantity (kg)
Stac	k or Point Releases	E2 - Published Emission Factors	0.0047

Storage or Handling Releases	NA - Not Applicable	
Fugitive Releases	E2 - Published Emission Factors	0.0189
Spills	NA - Not Applicable	
Other Non-point Releases	NA - Not Applicable	
Total - Releases to Air		
0.0236		
Enter the values for rele	ases to water bodies	
Releases to Water Bodie	es	
Releases to Water Bodie Category	Basis Of Estimate	Quantity (kg)
		Quantity (kg) 0.003
Category	Basis Of Estimate M1 - Continuous Emission	
Category Direct Discharges	Basis Of Estimate M1 - Continuous Emission Monitoring	
Category Direct Discharges Spills	M1 - Continuous Emission Monitoring NA - Not Applicable	
Category Direct Discharges Spills Leaks	M1 - Continuous Emission Monitoring NA - Not Applicable	

Assign releases to water bodies

Enter your total quantity released to all water bodies in the "Quantity" field under the release category. Then enter the specific quantity released to each water body in the "Quantity" field in each water body section. Your releases from all water bodies must equal the total quantity entered. When finished, click "Save and Return". To add a water body, click the "+" sign. You may leave a water body quantity blank if there are no releases to that water body. To remove a water body from the list, click the "Delete" icon to the right of the water body name.

Assign Releases to Water Bodies

Enter assigned values for

Direct Discharges

Basis Of Estimate						
M1 - Continuous Emission Monitoring						
Quantity (kg)						
0.003						
Matan Dadias						
Water Bodies						
Redstone River						
Water Body						
Redstone River						
Quantity (kg)						
0.003						
Province						
ON						
Water Shed ID						
Water Gried ID						
Total Assigned (must equal total re	ported)					
0.003						
Enter the values for rele	ases to land (surface an	d underground)				
Releases to Land (the n	ature of "Other" releases	s must be specified in the				
Comments)		·				
Category	Basis Of Estimate	Quantity (kg)				
Spills	NA - Not Applicable					
	, и и постирия в пости					
Leaks	NA - Not Applicable					
Other	NA - Not Applicable					
Total - Releases to Land						
Total Rolousos to Lanu						

Total Quantity Released

0.0266			
Breakdown of A	Annual Releases		
☐ Distribute Equa	lly		
Quarterly Break	kdown *		
Jan - Mar %	Apr - Jun %	Jul - Sep %	Oct - Dec %
25	25	25	25
Total %			
100			
Reasons for Ch	anges in Quantit	ies Released from	n Previous Vear
Select the applicable re	_	ics receased from	TT TOVIOUS TOUT
Changes in production			
Comments ? (On-Site	·		
Facility was on care a	nd maintenance in 2013.		
Disposals			
Reasons Why S	Substance Was D	isposed	
Select one or more rea	asons		
Production residues			
On-site Disposa	al (excluding Taili	ngs and Waste R	ock)
•	·	_	u must click the "Validate" button.
On-site Disposa	al		
Category	Basis Of I	Estimate	Quantity (kg)
Landfill	NA - Not A	Applicable	
Land Treatment	NA - Not A	Applicable	
Underground Injection	NA - Not A	Applicable	
Total - On-site Disposa	als		
•			

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Off-site Disposal	Basis Of Estimate	Ouantity (Ica)
Category	Dasis Oi Estimate	Quantity (kg)
Landfill	NA - Not Applicable	
Land Treatment	NA - Not Applicable	
I la de anno con el lario etico	NIA NIGEARIA	
Underground Injection	NA - Not Applicable	
Storage	NA - Not Applicable	
5	- 11	
Total - Off-site Disposals		
Off-site Transfers (excl	uding Tailings and W	aste Rock)
Off-site Transfers for T	reatment Prior to Fina	al Disposal
Category	Basis Of Estimate	Quantity (kg)
		Quantity (kg)
Category Physical Treatment	Basis Of Estimate NA - Not Applicable	Quantity (kg)
		Quantity (kg)
Physical Treatment	NA - Not Applicable	Quantity (kg)
Physical Treatment	NA - Not Applicable	Quantity (kg)
Physical Treatment Chemical Treatment Biological Treatment	NA - Not Applicable NA - Not Applicable NA - Not Applicable	Quantity (kg)
Physical Treatment Chemical Treatment	NA - Not Applicable NA - Not Applicable	Quantity (kg)
Physical Treatment Chemical Treatment Biological Treatment Incineration / Thermal	NA - Not Applicable NA - Not Applicable NA - Not Applicable NA - Not Applicable	Quantity (kg)
Physical Treatment Chemical Treatment Biological Treatment	NA - Not Applicable NA - Not Applicable NA - Not Applicable	Quantity (kg)
Physical Treatment Chemical Treatment Biological Treatment Incineration / Thermal Municipal Sewage Treatment	NA - Not Applicable NA - Not Applicable NA - Not Applicable NA - Not Applicable NA - Not Applicable	Quantity (kg)

Disposal of Tailings and Waste Rock On-site Disposal of Tailings and Waste Rock Category **Basis Of Estimate** Quantity (kg) **Tailings Management** M3 - Source Testing 34.769 NA - Not Applicable Waste Rock Management Total - On-site Disposal of Tailings and Waste Rock 34.769 * Note that this is a Net Quantity, accounting for any additions or removals of the substance from the tailings or waste rock management area. Off-site Disposal of Tailings and Waste Rock **Basis Of Estimate** Quantity (kg) Category **Tailings Management** NA - Not Applicable Waste Rock Management NA - Not Applicable Total - Off-site Disposal of Tailings and Waste Rock Additional Information - Tailings and Waste Rock Concentration of the Substance in Tailings Information on Sampling and Detection Limits for Tailings ** All samples above detection limit Average Tailings Concentration (ppm) 0.3 Tailings Concentration – additional information Concentration of the Substance in Waste Rock Information on Sampling and Detection Limits for Waste Rock **

Average Waste Rock	Concentration (ppm)			
Waste Rock Concen	tration – additional info	ormation		
Reasons for excludir	ng quantities in tailings	or waste rock		
Reasons for C	hanges in Qua	ntities Dispose	d from Previous	s Year
Select the applicable	e reason or reasons.			
Changes in producti	on levels			
Comments? (Dispos	als)			
Facility was on care	and maintenance in 2	013.		
Recycling				
Reasons for C	hanges in Qua	ntities Recycled	d from Previous	Year
Select the applicable	e reason or reasons *			
No significant chang	je (i.e. < 10%) or no ch	nange		
Comments? (Recycl	ing)			
=	Report: Enters, (
year's reporting to th	e last year's values.If	you selected the pre-p	oopulation function, the	e exact values in your
	rt will be inserted into t e required to update a	-	plate, including the co	mparison report.
Enters the fac		ii vaides and texts.		
Enters the fac				
Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change
1205.860	1.4	2012	1204.460	86032.86

Creation

Creation

Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	
Contained ir	n Product			
Contained in	n Product			
Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change
1171.067	0	2012	1171.067	100
Reasons for	Change			
Reasons for	· Change			
Reason(s) for Cha	ange			
Increase in produ	iction levels			
(please specify)				

Comparison Report: On-site Releases

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Total Releases to Air

Total Releases to Air

Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change
0.0236	0	2012	0.0236	100

Total Releases to Water

Total Releases to Water					
Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change	

0.003				
0.000	0.0003	2012	0.0027	900
Total Releas	ses to Land			
Total Releas	_			
Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2013	0	
Reasons for	Change			
Reasons for				
Reason(s) for Cha	•			
Increase in produ	ction levels			
(please specify)				
([
Rock	· ·			lings and Waste
Rock Ensure that "Last year's reporting to previous year's re Therefore, you wil	Reported Quantity" and the last year's values. port will be inserted int I be required to update	d the "Reporting Period If you selected the pre- o the current year's tem	of the last report	ed quantity" reflect curren
Rock Ensure that "Last year's reporting to previous year's re Therefore, you will	Reported Quantity" and the last year's values. port will be inserted into the required to update Disposals	d the "Reporting Period If you selected the pre- o the current year's tem	of the last report	ed quantity" reflect curren
Rock Ensure that "Last year's reporting to previous year's re Therefore, you will Total On-site Total On-site	Reported Quantity" and the last year's values. port will be inserted into the required to update Disposals	d the "Reporting Period If you selected the pre- o the current year's tem	of the last report	ed quantity" reflect curren
Rock Ensure that "Last year's reporting to previous year's reTherefore, you wil	Reported Quantity" and the last year's values. port will be inserted into the required to update Disposals Disposals Last Reported	d the "Reporting Period If you selected the pre- o the current year's tem e all values and texts. Reporting Period of Last Reported	of the last report population function plate, including t	red quantity" reflect curren on, the exact values in you he comparison report.
Rock Ensure that "Last year's reporting to previous year's reporting to Therefore, you will Total On-site Quantity (kg)	Reported Quantity" and the last year's values. port will be inserted into the required to update Disposals E Disposals Last Reported Quantity (kg) *	d the "Reporting Period If you selected the pre- to the current year's tem all values and texts. Reporting Period of Last Reported Quantity *	of the last report population function plate, including the Change	red quantity" reflect curren on, the exact values in you he comparison report.
Rock Ensure that "Last year's reporting to previous year's re Therefore, you will Total On-site Quantity (kg)	Reported Quantity" and the last year's values. port will be inserted into the required to update Disposals Last Reported Quantity (kg) *	d the "Reporting Period If you selected the pre- to the current year's tem all values and texts. Reporting Period of Last Reported Quantity *	of the last report population function plate, including the Change	red quantity" reflect curren on, the exact values in you he comparison report.
Rock Ensure that "Last year's reporting to previous year's re Therefore, you will Total On-site Total On-site Quantity (kg)	Reported Quantity" and the last year's values. port will be inserted into the required to update Disposals Last Reported Quantity (kg) *	d the "Reporting Period If you selected the pre- to the current year's tem all values and texts. Reporting Period of Last Reported Quantity *	of the last report population function plate, including the Change	red quantity" reflect curren on, the exact values in you he comparison report.
Rock Ensure that "Last year's reporting to previous year's reporting to previous year's reporting to Total On-site Quantity (kg) Total Off-site	Reported Quantity" and the last year's values. port will be inserted into the required to update Disposals Last Reported Quantity (kg) *	d the "Reporting Period If you selected the pre- to the current year's tem all values and texts. Reporting Period of Last Reported Quantity *	of the last report population function plate, including the Change	red quantity" reflect curren on, the exact values in you he comparison report.
Rock Ensure that "Last year's reporting to previous year's reporting to previous year's reporting to the refore, you will Total On-site Quantity (kg) Total Off-site Total Off-site	Reported Quantity" and the last year's values. port will be inserted into the required to update a Disposals Last Reported Quantity (kg) *	d the "Reporting Period If you selected the pre- to the current year's tem all values and texts. Reporting Period of Last Reported Quantity * 2012 Reporting Period of Last Reported	of the last report population function plate, including t Change	ed quantity" reflect curren on, the exact values in you he comparison report. % Change

Total Off-site	e transfer for tre	atment Prior to F	Final Dispos	sal
Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	
0	0	2012	0	
Total On-site	e Disposal of Ta	ilings and Waste	e Rock	
Total On-site	e Disposal of Ta	ilings and Waste	Rock	
Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change
34.769	4.8	2012	29.969	624.35
Total Off-site	e Disposal of Ta	ilings and Waste	Rock	
Total Off-site	e Disposal of Ta	ilings and Waste	Rock	
Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2013	0	
Reasons for	Change			
Reasons for	Change			
Reason(s) for Cha	ange			
Increase in produ	iction levels			
(please specify)				
(product speemy)				
	romium (and its Im (and its compounds)	• '		
		,		
Cubatanaa	Papartina Status			
Substance F	reporting Status			
Applicable F	Reporting Status Programs			

NPRI - Does this substance meet the criteria specified in the Canada Gazette notice? Selecting "No" indicates voluntary reporting of this substance to the NPRI. *

Yes
ON MOE TRA - Does this substance meet the criteria specified in the Ontario Regulation 455/09 under the TRA? Selecting "No" indicates voluntary reporting of this substance to the ON MOE. *
Yes
Is this considered the first report for this substance to the ON MOE TRA? (Please select "Help" for further clarification) *
No
Would you like to create an exit record for this ON MOE TRA substance? *
No
Comments
General Information about the Substance
Releases and Transfers of the Substance
Releases and Transfers of the Substance
Was the substance released on-site? *
Yes
If the substance was released on-site and the total quantity released was less than one tonne, select the check-box below
The substance will be reported as the sum of releases to all media (total of 1 tonne or less).
Disposals and Off-site Transfers for Recycling
Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal? *
Yes
Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? *
Yes
Was the substance transferred off-site for recycling? *
No
Nature of Activities *

Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of such activities.

Manufacture the Substance

Process the Substance
As a by-product
Otherwise Use of the Substance
TRA Quantifications
Enters the facility (Use), Creation, Contained in Product for ON MOE TRA
Enters the facility (Use)
The amount of substance that enters a process as the substance itself or part of another substance, rolled up at the facility level.
Quantity (Tonnes) **
36.176
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes
Creation
The amount of substance that is created
Quantity (Tonnes) **
0
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes
Contained in Product
The amount of substance contained in product
Quantity (Tonnes) **
23.426

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *

Yes						
Change in Method of Quantification						
	change in the method or comb he previous calendar year	ination of methods used to track a	and quantify the			
Describe the changes **						
Select the reason for char	nge: **					
Describe how the change	impact tracking and quantifica	ition of the substance **				
Incidents out of th	ne normal course of e	vents				
There have been in previous calendar	ncidents out of the normal cour year that affected the results o	rse of events that occurred at the f tracking/quantification of this sul	facility during the bstance.			
Explain how tracking and	quantifications were affected *	*				
Significant Proces	ss Change					
	•	he facility during the previous cale	endar year.			
On-site Releases						
·	Click "Edit" to enter your reportable values.In order to calculate totals, you must click the "Validate" button.					
Enter the values for releases to air for the substance						
Releases to Air						
Category	Basis Of Estimate	Quantity (Tonn	es)			
Stack or Point Releases	E2 - Published Emi	ission Factors 0.0001				
Storage or Handling Rele	eases NA - Not Applicable	Э				
Fugitive Releases	E2 - Published Emi	ission Factors 0.0006				
Spills	NA - Not Applicable	e				

Enter the values for releases to water bodies Releases to Water Bodies Category Basis Of Estimate Quantity (Tonnes) Direct Discharges NA - Not Applicable Spills NA - Not Applicable Leaks NA - Not Applicable Cotal - Releases to Water Bodies Enter the values for releases to land (surface and underground) Releases to Land (the nature of "Other" releases must be specified in to Comments) Category Basis Of Estimate Quantity (Tonnes) Spills NA - Not Applicable Cotal - Releases to Land Cotal - Releases to Land	Other New reint Delegans		
Enter the values for releases to water bodies Releases to Water Bodies Category Basis Of Estimate Quantity (Tonnes) Direct Discharges NA - Not Applicable Spills NA - Not Applicable Leaks NA - Not Applicable Fotal - Releases to Water Bodies Enter the values for releases to land (surface and underground) Releases to Land (the nature of "Other" releases must be specified in to Comments) Category Basis Of Estimate Quantity (Tonnes) Spills NA - Not Applicable Determinents NA - Not Applicable Other NA - Not Applicable Other NA - Not Applicable Fotal - Releases to Land Fotal Quantity Released Doctor Breakdown of Annual Releases	Other Non-point Releases	NA - Not Applicable	
Enter the values for releases to water bodies Releases to Water Bodies Category Basis Of Estimate Quantity (Tonnes) Direct Discharges NA - Not Applicable Spills NA - Not Applicable Leaks NA - Not Applicable Fotal - Releases to Water Bodies Enter the values for releases to land (surface and underground) Releases to Land (the nature of "Other" releases must be specified in the Comments) Category Basis Of Estimate Quantity (Tonnes) Spills NA - Not Applicable Leaks NA - Not Applicable Other NA - Not Applicable Cotal - Releases to Land Fotal Quantity Released Doctor Releases Cotal Quantity Released Doctor Releases Cotal Quantity Released Doctor Releases	Total - Releases to Air		
Releases to Water Bodies Category Basis Of Estimate Quantity (Tonnes) Direct Discharges NA - Not Applicable Spills NA - Not Applicable Leaks NA - Not Applicable Fotal - Releases to Water Bodies Enter the values for releases to land (surface and underground) Releases to Land (the nature of "Other" releases must be specified in the Comments) Category Basis Of Estimate Quantity (Tonnes) Spills NA - Not Applicable Dither NA - Not Applicable Fotal - Releases to Land Fotal Quantity Released Donoro Breakdown of Annual Releases	0.0007		
Releases to Water Bodies Category Basis Of Estimate Quantity (Tonnes) Direct Discharges NA - Not Applicable Spills NA - Not Applicable Leaks NA - Not Applicable Fotal - Releases to Water Bodies Enter the values for releases to land (surface and underground) Releases to Land (the nature of "Other" releases must be specified in the Comments) Category Basis Of Estimate Quantity (Tonnes) Spills NA - Not Applicable Dither NA - Not Applicable Fotal - Releases to Land Fotal Quantity Released Donoro Breakdown of Annual Releases	Entar the values for re	lagges to water hadio	,
Direct Discharges NA - Not Applicable Spills NA - Not Applicable NA - Not Applicable Fotal - Releases to Water Bodies Enter the values for releases to land (surface and underground) Releases to Land (the nature of "Other" releases must be specified in the Comments) Category Basis Of Estimate Quantity (Tonnes) Spills NA - Not Applicable Other NA - Not Applicable Other NA - Not Applicable Other Releases to Land Fotal - Releases to Land Fotal - Released 0.0007 Breakdown of Annual Releases			
Direct Discharges NA - Not Applicable Spills NA - Not Applicable Inter the values for releases to land (surface and underground) Releases to Land (the nature of "Other" releases must be specified in the Comments) Category Basis Of Estimate Quantity (Tonnes) Spills NA - Not Applicable Other NA - Not Applicable Other NA - Not Applicable Other Releases to Land Fotal - Released 0.0007 Breakdown of Annual Releases			
Spills NA - Not Applicable Leaks NA - Not Applicable Total - Releases to Water Bodies Enter the values for releases to land (surface and underground) Releases to Land (the nature of "Other" releases must be specified in tocomments) Category Basis Of Estimate Quantity (Tonnes) Spills NA - Not Applicable Other NA - Not Applicable Other NA - Not Applicable Total - Releases to Land Fotal Quantity Released 0.0007 Breakdown of Annual Releases	Category	Basis Of Estimate	Quantity (Tonnes)
Leaks NA - Not Applicable Fotal - Releases to Water Bodies Enter the values for releases to land (surface and underground) Releases to Land (the nature of "Other" releases must be specified in to Comments) Category Basis Of Estimate Quantity (Tonnes) Spills NA - Not Applicable Other NA - Not Applicable Other NA - Not Applicable Fotal - Releases to Land Fotal Quantity Released 0.0007 Breakdown of Annual Releases	Direct Discharges	NA - Not Applicable	
Leaks NA - Not Applicable Fotal - Releases to Water Bodies Enter the values for releases to land (surface and underground) Releases to Land (the nature of "Other" releases must be specified in to Comments) Category Basis Of Estimate Quantity (Tonnes) Spills NA - Not Applicable Other NA - Not Applicable Other NA - Not Applicable Fotal - Releases to Land Fotal Quantity Released 0.0007 Breakdown of Annual Releases			
Enter the values for releases to land (surface and underground) Releases to Land (the nature of "Other" releases must be specified in to Comments) Category Basis Of Estimate Quantity (Tonnes) Spills NA - Not Applicable Leaks NA - Not Applicable Other NA - Not Applicable Total - Releases to Land Fotal Quantity Released 5.00007 Breakdown of Annual Releases	Spills	NA - Not Applicable	
Enter the values for releases to land (surface and underground) Releases to Land (the nature of "Other" releases must be specified in to Comments) Category Basis Of Estimate Quantity (Tonnes) Spills NA - Not Applicable Leaks NA - Not Applicable Other NA - Not Applicable Total - Releases to Land Fotal Quantity Released 5.00007 Breakdown of Annual Releases	Looks	NA Nat Appliants	
Enter the values for releases to land (surface and underground) Releases to Land (the nature of "Other" releases must be specified in to Comments) Category Basis Of Estimate Quantity (Tonnes) Spills NA - Not Applicable Leaks NA - Not Applicable Other NA - Not Applicable Total - Releases to Land Fotal Quantity Released 0.0007 Breakdown of Annual Releases	LeakS	INA - INOT APPIICADIE	
Releases to Land (the nature of "Other" releases must be specified in to Comments) Category Basis Of Estimate Quantity (Tonnes) Spills NA - Not Applicable Leaks NA - Not Applicable Other NA - Not Applicable Total - Releases to Land Total Quantity Released 5.0007 Breakdown of Annual Releases	Total - Releases to Water Bodies	3	
Releases to Land (the nature of "Other" releases must be specified in to Comments) Category Basis Of Estimate Quantity (Tonnes) Spills NA - Not Applicable Leaks NA - Not Applicable Other NA - Not Applicable Total - Releases to Land Total Quantity Released 5.0007 Breakdown of Annual Releases			
Spills NA - Not Applicable Leaks NA - Not Applicable Other NA - Not Applicable Total - Releases to Land Total Quantity Released 0.0007 Breakdown of Annual Releases	Comments)		·
Deaks NA - Not Applicable Other NA - Not Applicable Total - Releases to Land Total Quantity Released 0.0007 Breakdown of Annual Releases	Category	Dasis Oi Estillate	Quantity (Tonnes)
Other NA - Not Applicable Total - Releases to Land Total Quantity Released 0.0007 Breakdown of Annual Releases			
Other NA - Not Applicable Total - Releases to Land Total Quantity Released 0.0007 Breakdown of Annual Releases	Spills	NA - Not Applicable	
Total - Releases to Land Total Quantity Released 0.0007 Breakdown of Annual Releases			
Total - Releases to Land Total Quantity Released 0.0007 Breakdown of Annual Releases	Spills		
Total Quantity Released 0.0007 Breakdown of Annual Releases		NA - Not Applicable	
Breakdown of Annual Releases	Leaks	NA - Not Applicable	
Breakdown of Annual Releases	Leaks	NA - Not Applicable	
Breakdown of Annual Releases	Leaks	NA - Not Applicable	
	Leaks Other Total - Releases to Land	NA - Not Applicable	
	Leaks	NA - Not Applicable	
	Leaks Other Total - Releases to Land Total Quantity Released 0.0007	NA - Not Applicable NA - Not Applicable	

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Quarterly Breakdown * Jan - Mar % Apr - Jun % Jul - Sep % Oct - Dec % 25 25 25 25 Total % 100 Reasons for Changes in Quantities Released from Previous Year Select the applicable reason or reasons * Changes in production levels Comments ? (On-Site Releases) ** Facility was on care and maintenance in 2013. **Disposals** Reasons Why Substance Was Disposed Select one or more reasons Production residues On-site Disposal (excluding Tailings and Waste Rock) Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button. **On-site Disposal Basis Of Estimate Quantity (Tonnes)** Category Landfill NA - Not Applicable NA - Not Applicable Land Treatment **Underground Injection** NA - Not Applicable Total - On-site Disposals

Off-site Disposal (excluding Tailings and Waste Rock)

Off-site Disposal

Category Basis Of Estimate Quantity (Tonnes)

Tailings Management	M3 - Source Testing	12.749
Category	Basis Of Estimate	Quantity (Tonnes)
On-site Disposal of Tai		
Disposal of Tailings an	d Wasta Rock	
Total Quantity Disposed (All Med	ia)	
Total - Treatment Phor to Final D	ιομυσαι	
Total - Treatment Prior to Final D	ienosal	
Municipal Sewage Treatment Plant	NA - Not Applicable	
Incineration / Thermal	NA - Not Applicable	
Biological Treatment	NA - Not Applicable	
Chemical Treatment	NA - Not Applicable	
Physical Treatment	NA - Not Applicable	
Category	Basis Of Estimate	Quantity (Tonnes)
	reatment Prior to Final	·
Off-site Transfers (excl	luding Tailings and Was	ste Rock)
Total - Off-site Disposals		
Storage	NA - Not Applicable	
Underground Injection	NA - Not Applicable	
Land Treatment	NA - Not Applicable	
Landfill	NA - Not Applicable	

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Waste Rock Management	NA - Not Applicable				
Total - On-site Disposal of Tailings	and Wasta Pack				
12.749	and waste Nock				
* Note that this is a Net Quantity, accounting for any additions or removals of the substance from the tailings or waste rock management area.					
Off-site Disposal of Tailing	ngs and Waste Rock				
Category	Basis Of Estimate	Quantity (Tonnes)			
Tailings Management	NA - Not Applicable				
Waste Rock Management	NA - Not Applicable				
Total - Off-site Disposal of Tailings	and Waste Rock				
Additional Information - Concentration of the Suk	Tailings and Waste Rock				
Information on Sampling and Detec					
All samples above detection limit	<u> </u>				
Average Tailings Concentration (pp	m)				
110.0					
Tailings Concentration – additional	information				
Concentration of the Substance in Waste Rock					
Information on Sampling and Detec	tion Limits for Waste Rock **				
Average Waste Rock Concentration	n (ppm)				
Waste Rock Concentration – addition	onal information				

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Reasons for excluding	ng quantities in tailin	gs or waste rock		
Reasons for C	Changes in Qu	ıantities Dispose	ed from Prev	rious Year
Select the applicable	e reason or reasons.			
Changes in product	on levels			
Comments? (Dispos	als)			
Facility was on care	and maintenance ir	n 2013.		
Recycling				
Reasons for C	ີ່ Changes in Qu	antities Recycle	d from Prev	ious Year
Select the applicable	•	•		
No significant chang	ge (i.e. < 10%) or no	change		
Comments? (Recycl	ing)			
Ensure that "Last Re year's reporting to the previous year's reporting the year's reportin	eported Quantity" and le last year's values or will be inserted into the required to update		of the last report population function	ed quantity" reflect current on, the exact values in your
Enters the fac	• ` '			
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
36.176	59.6729	2012	-23.4969	-39.38
Creation				
Creation				
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	

Contained in F	Product			
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
23.426	0	2012	23.426	100
Reasons for C	Change			
Reasons for C	hange			
Reason(s) for Chang	ре			
Increase in producti	on levels			
(please specify)				
Ensure that "Last Re year's reporting to th	eported Quantity" an le last year's values.	Releases d the "Reporting Period If you selected the pre-	population function	on, the exact values in y
Ensure that "Last Re year's reporting to th previous year's repo Therefore, you will b Total Release	eported Quantity" and le last year's values. It will be inserted into the required to update to Air	d the "Reporting Period If you selected the pre-	population function	on, the exact values in y
year's reporting to th previous year's repo	eported Quantity" and le last year's values. It will be inserted into the required to update to Air	d the "Reporting Period If you selected the pre- to the current year's tem	population function	on, the exact values in y
Ensure that "Last Re year's reporting to the previous year's repo Therefore, you will be Total Release Total Release Quantity (Tonnes)	ported Quantity" and le last year's values. It will be inserted into the required to update to Air S to Air Last Reported Quantity	d the "Reporting Period If you selected the pre- to the current year's tem e all values and texts. Reporting Period of Last Reported	population function	on, the exact values in y he comparison report.
Ensure that "Last Re year's reporting to the previous year's repoon Therefore, you will be Total Release Total Release Quantity (Tonnes)	eported Quantity" and le last year's values. It will be inserted into the required to update to Air S to Air Last Reported Quantity (Tonnes) *	d the "Reporting Period If you selected the pre- to the current year's tem e all values and texts. Reporting Period of Last Reported Quantity *	population function plate, including the control of	on, the exact values in y he comparison report. % Change
Ensure that "Last Regress reporting to the previous year's reporti	eported Quantity" and le last year's values. It will be inserted into the required to update as to Air S to Air Last Reported Quantity (Tonnes) * 0.0005	d the "Reporting Period If you selected the pre- to the current year's tem e all values and texts. Reporting Period of Last Reported Quantity *	population function plate, including the control of	on, the exact values in y he comparison report. % Change
Ensure that "Last Re year's reporting to th previous year's repo Therefore, you will b Total Release Total Release	eported Quantity" and le last year's values. It will be inserted into the required to update as to Air S to Air Last Reported Quantity (Tonnes) * 0.0005	d the "Reporting Period If you selected the pre- to the current year's tem e all values and texts. Reporting Period of Last Reported Quantity *	population function plate, including the control of	on, the exact values in y he comparison report. % Change

Total Releases to Land

Total Releases to Land

	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change	
0	0	2012	0		
Reasons for C	Change				
Reasons for C	hange				
Reason(s) for Chang	је				
Increase in production	on levels				
(please specify)					
Rock Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts. Total On-site Disposals Total On-site Disposals					
	Disposals Last Reported	Reporting Period of Last Reported	Change	% Change	
Total On-site I	Disposals	Reporting Period of Last Reported Quantity *	Change	% Change	
Total On-site I	Disposals Last Reported Quantity	of Last Reported	Change 0	% Change	
Total On-site I Quantity (Tonnes) 0	Disposals Last Reported Quantity (Tonnes) *	of Last Reported Quantity *	_	% Change	
Total On-site I Quantity (Tonnes) 0 Total Off-site I	Disposals Last Reported Quantity (Tonnes) *	of Last Reported Quantity *	_	% Change	
Total On-site I Quantity (Tonnes) 0	Disposals Last Reported Quantity (Tonnes) *	of Last Reported Quantity *	_	% Change	
Total On-site I Quantity (Tonnes) 0 Total Off-site I Total Off-site I	Disposals Last Reported Quantity (Tonnes) * 0 Disposals Disposals Last Reported Quantity	of Last Reported Quantity * 2012 Reporting Period of Last Reported	0		
Total On-site I Quantity (Tonnes) Total Off-site I Total Off-site I Quantity (Tonnes)	Disposals Last Reported Quantity (Tonnes) * 0 Disposals Disposals Last Reported Quantity (Tonnes) *	of Last Reported Quantity * 2012 Reporting Period of Last Reported Quantity * 2012	O Change	% Change	
Total On-site I Quantity (Tonnes) Total Off-site I Total Off-site I Quantity (Tonnes) Total Off-site t	Disposals Last Reported Quantity (Tonnes) * 0 Disposals Disposals Last Reported Quantity (Tonnes) *	of Last Reported Quantity * 2012 Reporting Period of Last Reported Quantity * 2012 atment Prior to F	Change 0 Final Dispos	% Change	
Total On-site I Quantity (Tonnes) Total Off-site I Total Off-site I Quantity (Tonnes) Total Off-site t	Disposals Last Reported Quantity (Tonnes) * 0 Disposals Disposals Last Reported Quantity (Tonnes) *	of Last Reported Quantity * 2012 Reporting Period of Last Reported Quantity * 2012	Change 0 Final Dispos	% Change	

0	0	2012	0	
Total On-site	Disposal of Tail	Rock		
Total On-site	Disposal of Tail	Rock		
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
12.749	119.5928	2012	-106.8438	-89.34
Total Off-site	Disposal of Tail	ings and Waste	Rock	
Total Off-site	Disposal of Tail	ings and Waste	Rock	
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2013	0	
Reasons for C				
Reasons for C	•			
Reason(s) for Chang	ge			
Decrease in produc	tion levels			
(please specify)				
NA - 05, Cob	alt (and its com	pounds)		
NA - 05, Cobalt (and	d its compounds)	ŕ		
Substance Re	porting Status			
Applicable Pro	ograms			
	bstance meet the criter eporting of this substan	ria specified in the Can nce to the NPRI. *	ada Gazette notice?	Selecting "No"
Yes				
ON MOE TRA - Doe TRA? Selecting "No	es this substance meet " indicates voluntary re	the criteria specified ir porting of this substan	n the Ontario Regulati ce to the ON MOE. *	ion 455/09 under the
Yes				

Is this considered the first report for this substance to the ON MOE TRA? (Please select "Help" for further clarification) *
No
Would you like to create an exit record for this ON MOE TRA substance? *
No
Comments
General Information about the Substance
Releases and Transfers of the Substance
Releases and Transfers of the Substance
Was the substance released on-site? *
Yes
If the substance was released on-site and the total quantity released was less than one tonne, select the check-box below
The substance will be reported as the sum of releases to all media (total of 1 tonne or less).
Disposals and Off-site Transfers for Recycling
Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal? *
Yes
Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? *
Yes
Was the substance transferred off-site for recycling? *
No
Nature of Activities *
Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of such activities.
Manufacture the Substance
Process the Substance
As a by-product

Otherwise Use of the Substance
TRA Quantifications
Enters the facility (Use), Creation, Contained in Product for ON MOE TRA
Enters the facility (Use) The amount of substance that enters a process as the substance itself or part of another substance, rolled up
at the facility level.
Quantity (Tonnes) **
36.176
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes
Creation
The amount of substance that is created
Quantity (Tonnes) **
0.00
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes
Contained in Product
The amount of substance contained in product
Quantity (Tonnes) **
34.668
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes
Change in Method of Quantification
There has been a change in the method or combination of methods used to track and quantify the

substance during the previous calendar year						
Describe the changes **						
Select the reason for change: **						
Describe how the change impact tr	Describe how the change impact tracking and quantification of the substance **					
Incidents out of the norm	nal course of events					
	out of the normal course of events the affected the results of tracking/quant					
Explain how tracking and quantification	ations were affected **					
Significant Process Cha	nge t process change at the facility during	g the previous calendar year.				
On-site Releases	e values.In order to calculate totals, y	ou must click the "Validate" button				
	ases to air for the substa					
Releases to Air						
Category	Basis Of Estimate	Quantity (Tonnes)				
Stack or Point Releases	Stack or Point Releases E2 - Published Emission Factors 0.0001					
Storage or Handling Releases NA - Not Applicable						
Fugitive Releases E2 - Published Emission Factors 0.0006						
Spills	NA - Not Applicable					
Other Non-point Releases	NA - Not Applicable					
Total - Releases to Air						
0.0007						

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Enter the values for releases to water bodies Releases to Water Bodies Category **Basis Of Estimate Quantity (Tonnes) Direct Discharges** NA - Not Applicable Spills NA - Not Applicable Leaks NA - Not Applicable Total - Releases to Water Bodies Enter the values for releases to land (surface and underground) Releases to Land (the nature of "Other" releases must be specified in the Comments) Category **Basis Of Estimate Quantity (Tonnes)** NA - Not Applicable Spills NA - Not Applicable Leaks NA - Not Applicable Other Total - Releases to Land **Total Quantity Released** 0.0007 Breakdown of Annual Releases Distribute Equally Quarterly Breakdown * Jan - Mar % Apr - Jun % Jul - Sep % Oct - Dec % 25 25 25 25

Total %		
100		
Reasons for Changes in	Quantities Released fror	n Previous Year
Select the applicable reason or rea	sons *	
Changes in production levels		
Comments ? (On-Site Releases) **		
The facility was on care and mainte	enance in 2013.	
Disposals		
Reasons Why Substanc	e Was Disposed	
Select one or more reasons		
Production residues		
•	ling Tailings and Waste F	,
On-site Disposal		
Category	Basis Of Estimate	Quantity (Tonnes)
Landfill	NA - Not Applicable	
Land Treatment	NA - Not Applicable	
Underground Injection	NA - Not Applicable	
Total - On-site Disposals		
Off-site Disposal (exclud	ling Tailings and Waste F	Rock)
Off-site Disposal		
Category	Basis Of Estimate	Quantity (Tonnes)
Landfill	NA - Not Applicable	
Land Treatment	NA - Not Applicable	

Underground Injection	NA - Not Applicable	
	1 [
Storage	NA - Not Applicable	
Total - Off-site Disposals		
Off-site Transfers (excl	uding Tailings and Waste	Rock)
Off-site Transfers for T	reatment Prior to Final Di	sposal
Category	Basis Of Estimate	Quantity (Tonnes)
Physical Treatment	NA - Not Applicable	
Chemical Treatment	NA - Not Applicable	
	, , , , , , , , , , , , , , , , , , ,	
Biological Treatment	NA - Not Applicable	
Incineration / Thermal	NA - Not Applicable	
Municipal Sewage Treatment Plant	NA - Not Applicable	
Total - Treatment Prior to Final D	isposal	
Total Quantity Disposed (All Med	ia)	
Disposal of Tailings an	d Waste Rock	
On-site Disposal of Tai	lings and Waste Rock	
Category	Basis Of Estimate	Quantity (Tonnes)
Tailings Management	M3 - Source Testing	1.507
Waste Rock Management	NA - Not Applicable	
Waste Nook Management	TVA - TVOL Applicable	

Total - On-site Disposal of Tailings and Waste Rock

		_
1	しらい	7

Off-site Disposal of Tailings and Waste Rock

Category	Basis Of Estimate	Quantity (Tonnes)
Tailings Management	NA - Not Applicable	
Waste Rock Management	NA - Not Applicable	
Total - Off-site Disposal of Tailings	and Waste Rock	
Additional Information -	Tailings and Waste Rock	
Concentration of the Sub	ostance in Tailings	
Information on Sampling and Detec	tion Limits for Tailings **	
All samples above detection limit		
Average Tailings Concentration (pp	m)	
13.0		
Tailings Concentration – additional	information	
Concentration of the Suk	ostance in Waste Rock	
Information on Sampling and Detec	tion Limits for Waste Rock **	
Average Waste Rock Concentration	n (ppm)	
Waste Rock Concentration – addition	onal information	
Reasons for excluding quantities in	tailings or waste rock	

^{*} Note that this is a Net Quantity, accounting for any additions or removals of the substance from the tailings or waste rock management area.

Select the applicable	e reason or reasons.			
Changes in product	ion levels			
Comments? (Dispos	sals)			
Facility was on care	and maintenance in	2013.		
Recycling				
	Changes in Qu	antities Recycle	d from Prev	ious Year
Select the applicable	e reason or reasons	*		
No significant chang	ge (i.e. < 10%) or no	change		
Comments? (Recycl	ling)			
previous year's repo Therefore, you will b	ne last year's values. ort will be inserted into the required to update	. •	population function	ed quantity" reflect curren on, the exact values in you he comparison report.
previous year's repo	ne last year's values. ort will be inserted into the required to update cility (Use) cility (Use) Last Reported	If you selected the pre- to the current year's tem e all values and texts.	population function	on, the exact values in you
previous year's report Therefore, you will be Enters the fact Enters the fact	ne last year's values. ort will be inserted into the required to update cility (Use) cility (Use)	If you selected the pre- to the current year's tem e all values and texts.	population function	on, the exact values in you he comparison report.
previous year's report Therefore, you will be Enters the fact Enters the fact	ne last year's values. ort will be inserted into the required to update cility (Use) cility (Use) Last Reported Quantity	If you selected the pre- to the current year's tem e all values and texts. Reporting Period of Last Reported	population function	on, the exact values in you he comparison report.
previous year's report Therefore, you will be Enters the face Enters the face Quantity (Tonnes)	ne last year's values. ort will be inserted into the required to update sility (Use) cility (Use) Last Reported Quantity (Tonnes) *	If you selected the pre- to the current year's tem a all values and texts. Reporting Period of Last Reported Quantity *	Change	on, the exact values in you he comparison report. % Change
previous year's report Therefore, you will be Enters the fact Enters the fact Quantity (Tonnes) 36.176 Creation	ne last year's values. ort will be inserted into the required to update sility (Use) cility (Use) Last Reported Quantity (Tonnes) *	If you selected the pre- to the current year's tem a all values and texts. Reporting Period of Last Reported Quantity *	Change	on, the exact values in you he comparison report. % Change
previous year's report Therefore, you will be Enters the factor the factor that the factor tha	ne last year's values. ort will be inserted into the required to update sility (Use) cility (Use) Last Reported Quantity (Tonnes) *	If you selected the pre- to the current year's tem a all values and texts. Reporting Period of Last Reported Quantity *	Change	on, the exact values in you he comparison report. % Change
previous year's report Therefore, you will be Enters the factor the factor that the factor tha	ne last year's values. ort will be inserted into the required to update sility (Use) cility (Use) Last Reported Quantity (Tonnes) * 11.663 Last Reported Quantity	Reporting Period Quantity * 2012 Reporting Period of Last Reported Quantity *	Change 24.513	% Change
previous year's report Therefore, you will be Enters the factor Enters the factor Enters the factor (Tonnes) 36.176 Creation Creation Quantity (Tonnes)	he last year's values. Out will be inserted into the required to update sility (Use) Last Reported Quantity (Tonnes) * Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change Change	% Change
previous year's report Therefore, you will be Enters the factor that the factor that the factor that the factor that the factor (Tonnes)	ne last year's values. ort will be inserted into the required to update sility (Use) cility (Use) Last Reported Quantity (Tonnes) * Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change Change	% Change

	Quantity (Tonnes) *	of Last Reported Quantity *		
34.668	7.1239	2012	27.5441	386.64
Danaana (an C	Nh a			
Reasons for C	•			
Reasons for C	_			
Reason(s) for Chang				
Increase in production	on levels			
(please specify)				
Ensure that "Last Re rear's reporting to the previous year's repo	e last year's values.If rt will be inserted into e required to update a	the "Reporting Period you selected the pre- the current year's tem	population function, t	quantity" reflect current he exact values in your comparison report.
Total Release	s to Air			
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0.0007	0	2012	0.0007	100
F (D				
Total Release				
Total Release				
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	
F (D				
Total Release				
Total Release	s to Land			
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	

Reasons for C	hange			
Reasons for C	hange			
Reason(s) for Chang	ge			
Increase in production	on levels			
(please specify)				
Comparison R	eport: Disposa	ls On-site, Off-	site and Taili	ngs and Waste
Rock				
year's reporting to th previous year's repo	•	you selected the pre-p the current year's tem	oopulation function	d quantity" reflect current in, the exact values in your e comparison report.
Total On-site I	Disposals			
Total On-site I	Disposals			
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	
Total Off-site [Disposals			
Total Off-site I	•			
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	
	ransfer for trea			
	ransfer for trea	tment Prior to F	-inal Disposa	<u>al</u>
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	
Total On-site [Disposal of Tail	ings and Waste	e Rock	

	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
1.507	4.5393	2012	-3.0323	-66.80
Total Off-site	Disposal of Ta	ilings and Waste	e Rock	
Total Off-site I	Disposal of Ta	ilings and Waste	e Rock	
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	
Reasons for C	Change			
Reasons for C	Change			
Reason(s) for Chang	ge			
Decrease in product	tion levels			
/nl				
(DIAGOA ODAGITY)				
(piease specity)				
(please specify)				
NA - 06, Cop	per (and its co	mpounds)		
NA - 06, Cop	•	mpounds)		
NA - 06, Cop	•	mpounds)		
NA - 06, Cop NA - 06, Copper (ar	•	•		
NA - 06, Cop NA - 06, Copper (ar Substance Re	eporting Status	•		
NA - 06, Coppor (and a substance Results) Applicable Provinces this substance this substance the su	eporting Status	eria specified in the Ca	nada Gazette n	otice? Selecting "No"
NA - 06, Copper (ar Substance Re Applicable Pro	eporting Status ograms bstance meet the crit	eria specified in the Ca	nada Gazette n	otice? Selecting "No"
NA - 06, Copper (and Substance Respondent Properties of the Proper	eporting Status ograms bstance meet the crit eporting of this subst	eria specified in the Ca ance to the NPRI. *	in the Ontario R	egulation 455/09 under th
NA - 06, Copper (and - 06, Copper (and - 06, Copper (and - 06) Substance Responded Proposition of the copper of th	eporting Status ograms bstance meet the crit eporting of this subst	eria specified in the Ca cance to the NPRI. *	in the Ontario R	egulation 455/09 under th
NA - 06, Copper (and Substance Research Applicable Properties of the NPRI - Does this subtendicates voluntary research Properties on MOE TRA - Does TRA? Selecting "Not Yes	eporting Status ograms bstance meet the crit eporting of this subst	eria specified in the Ca ance to the NPRI. * et the criteria specified reporting of this substa	in the Ontario R nce to the ON M	egulation 455/09 under th

Would you like to create an exit record for this ON MOE TRA substance? *
No
Comments
General Information about the Substance
Releases and Transfers of the Substance
Releases and Transfers of the Substance
Was the substance released on-site? *
Yes
If the substance was released on-site and the total quantity released was less than one tonne, select the check-box below
The substance will be reported as the sum of releases to all media (total of 1 tonne or less).
Disposals and Off-site Transfers for Recycling
Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal? *
Yes
Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? *
Yes
Was the substance transferred off-site for recycling? *
No
Nature of Activities *
Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of such activities.
Manufacture the Substance
For sale/distribution
Process the Substance
Otherwise Use of the Substance

TRA Quantifications

Enters the facility (Use), Creation, Contained in Product for ON MOE TRA Enters the facility (Use)

Ente	ers the facility (Use)
	mount of substance that enters a process as the substance itself or part of another substance, rolled up facility level.
Quant	ity (Tonnes) **
24611	1.603
Do yo	u want to use ranges for public reporting? If "No" is selected you are indicating that any report to the may contain the exact quantity provided. *
Yes	
Crea	ation
The a	mount of substance that is created
Quant	ity (Tonnes) **
0	
Do yo	u want to use ranges for public reporting? If "No" is selected you are indicating that any report to the may contain the exact quantity provided. *
Yes	
Con	tained in Product
	mount of substance contained in product
Quant	ity (Tonnes) **
24584	1.465
Do yo	u want to use ranges for public reporting? If "No" is selected you are indicating that any report to the may contain the exact quantity provided. *
Yes	
Cha	nge in Method of Quantification
	There has been a change in the method or combination of methods used to track and quantify the substance during the previous calendar year
Descri	ibe the changes **

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Select the reason for change: **						
Describe how the change impact tracking and quantification of the substance **						
Incidents out of the nor	mal course of events					
	out of the normal course of events that t affected the results of tracking/quant					
Explain how tracking and quantific	cations were affected **					
Significant Process Change There has been a significant process change at the facility during the previous calendar year. On-site Releases Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button. Enter the values for releases to air for the substance Releases to Air						
Click "Edit" to enter your reportable Enter the values for rele						
Click "Edit" to enter your reportable Enter the values for rele Releases to Air						
Click "Edit" to enter your reportable	eases to air for the substa	nce				
Click "Edit" to enter your reportable Enter the values for rele Releases to Air Category Stack or Point Releases	eases to air for the substa	Quantity (Tonnes)				
Click "Edit" to enter your reportable Enter the values for rele Releases to Air Category	Basis Of Estimate E2 - Published Emission Factors	Quantity (Tonnes)				
Click "Edit" to enter your reportable Enter the values for rele Releases to Air Category Stack or Point Releases Storage or Handling Releases Fugitive Releases	Basis Of Estimate E2 - Published Emission Factors NA - Not Applicable	Quantity (Tonnes) 0.0959				
Click "Edit" to enter your reportable Enter the values for rele Releases to Air Category Stack or Point Releases Storage or Handling Releases	Basis Of Estimate E2 - Published Emission Factors NA - Not Applicable E2 - Published Emission Factors	Quantity (Tonnes) 0.0959				
Click "Edit" to enter your reportable Enter the values for rele Releases to Air Category Stack or Point Releases Storage or Handling Releases Fugitive Releases Spills	Basis Of Estimate E2 - Published Emission Factors NA - Not Applicable E2 - Published Emission Factors NA - Not Applicable	Quantity (Tonnes) 0.0959				

Enter the values for releases to water bodies

Releases to Water Bodies

Category	Basis Of Esti	mate	Quantity (Tonnes)
Direct Discharges	NA - Not Appl	icable	
Spills	s NA - Not Applical		
Leaks	NA - Not Appl	icable	
Total - Releases to Water	Bodies		
Enter the values for	or releases to lan	d (surface and	underground)
		•	nust be specified in the
Comments)	,		•
Category	Basis Of Esti	mate	Quantity (Tonnes)
Spills	NA - Not Appl	icable	
Leaks	NA - Not Appl	icable	
Other	NA - Not Appl	icable	
Total - Releases to Land			
Total Overtity Delegand			
Total Quantity Released 0.4816			
Breakdown of Ann	nual Releases		
☐ Distribute Equally			
Quarterly Breakdo			
Jan - Mar %	Apr - Jun %	Jul - Sep %	Oct - Dec %
25	25	25	25

Total %

Land Treatment

Underground Injection

nvironment Canada		
100		
Reasons for Changes	s in Quantities Release	d from Previous Year
Select the applicable reason or	reasons *	
Changes in production levels		
Comments ? (On-Site Release	s) **	
The facility was on care and m	aintenance in 2013.	
Disposals		
Reasons Why Substa	ance Was Disposed	
Select one or more reasons		
Production residues		
•	cluding Tailings and Wa	•
On-site Disposal	able values.in order to calculate to	otals, you must click the "Validate" button.
Category	Basis Of Estimate	Quantity (Tonnes)
Landfill	NA - Not Applicable	
Land Treatment	NA - Not Applicable	
Underground Injection	NA - Not Applicable	
Total - On-site Disposals		
Off-site Disposal (exc	cluding Tailings and Wa	ste Rock)
Off-site Disposal		
Category	Basis Of Estimate	Quantity (Tonnes)
Landfill	NA - Not Applicable	

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NA - Not Applicable

NA - Not Applicable

Storage	NA - Not Applicable	
Total - Off-site Disposals		
O# '' T / /		D 1)
	uding Tailings and Waste	
Off-site Transfers for T	reatment Prior to Final Dis	sposal
Category	Basis Of Estimate	Quantity (Tonnes)
Physical Treatment	NA - Not Applicable	
Chemical Treatment	NA - Not Applicable	
Biological Treatment	NA - Not Applicable	
Incineration / Thermal	NA - Not Applicable	
Municipal Sewage Treatment Plant	NA - Not Applicable	
Total - Treatment Prior to Final D	isposal	
Total Quantity Disposed (All Med	ia)	
Disposal of Tailings an	d Waste Rock	
On-site Disposal of Tai	lings and Waste Rock	
Category	Basis Of Estimate	Quantity (Tonnes)
Tailings Management	M3 - Source Testing	26.656
Waste Rock Management	NA - Not Applicable	
Total - On-site Disposal of Tailing	s and Waste Rock	
26.656		

* Note that this is a Net Quantity, accounting for any additions or removals of the substance from the tailings or waste rock management area.

Off-site Disposal of Taili	ings and Waste Rock	
Category	Basis Of Estimate	Quantity (Tonnes)
Tailings Management	NA - Not Applicable	
Waste Rock Management	NA - Not Applicable	
Total - Off-site Disposal of Tailings	and Waste Rock	
Additional Information -	Tailings and Waste Rock	
Concentration of the Su	bstance in Tailings	
Information on Sampling and Dete	ction Limits for Tailings **	
All samples above detection limit		
Average Tailings Concentration (p	pm)	
230.0		
Tailings Concentration – additional	information	
Concentration of the Su	bstance in Waste Rock	
Information on Sampling and Dete	ction Limits for Waste Rock **	
Average Waste Rock Concentration	on (ppm)	
Waste Rock Concentration – addit	ional information	
Reasons for excluding quantities in	n tailings or waste rock	

Reasons for Changes in Quantities Disposed from Previous Year

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Select the applicable reason or reasons.

Changes in production levels

Comments? (Disposals)

The facility was on care and maintenance in 2013.

Recycling

Reasons for Changes in Quantities Recycled from Previous Year

Select the applicable reason or reasons *

No significant change (i.e. < 10%) or no change

Comments? (Recycling)

Comparison Report: Enters, Creation, Contained in Product

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Enters the facility (Use)

Enters the facility (Use)

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
24611.603	20.0009	2012	24591.6021	122952.48

Creation

Creation

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	

Contained in Product

Contained in Draduct

Contained in F	Toduct			
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change

24584.465	10.3839	2012	24574.0811	236655.60
Reasons for C	Change			
Reasons for C	Change			
Reason(s) for Chang	_			
Increase in production	on levels			
(please specify)				
Comparison R	Report: On-site	Releases		
year's reporting to th	e last year's values. rt will be inserted into	If you selected the pre- o the current year's tem	population functio	ed quantity" reflect current on, the exact values in you ne comparison report.
Total Release	s to Air			
Total Release	s to Air			
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0.4816	0.0001	2012	0.4815	481500
Total Release	s to Water			
Total Release				
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0.0001	2012	-0.0001	-100
Total Release Total Release				
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2013	0	

Reasons for C	hange			
Reasons for C	hange			
Reason(s) for Chang	ge			
Increase in production	on levels			
(please specify)				
Comparison R	eport: Disposa	ls On-site, Off-	site and Taili	ngs and Waste
Rock				
year's reporting to th previous year's repo	•	you selected the pre-p the current year's tem	oopulation function	d quantity" reflect current in, the exact values in your e comparison report.
Total On-site I	Disposals			
Total On-site I	Disposals			
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	
Total Off-site [Disposals			
Total Off-site I	•			
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	
	ransfer for trea			
	ransfer for trea	tment Prior to F	-inal Disposa	<u>al</u>
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	
Total On-site [Disposal of Tail	ings and Waste	e Rock	

	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
26.656	9.6169	2012	17.0391	177.18
Total Off-site I	Disposal of Ta	ilings and Waste	e Rock	
Total Off-site I	Disposal of Ta	ilings and Waste	e Rock	
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	
Reasons for C	hange			
Reasons for C	hange			
Reason(s) for Chang	је			
Increase in production	on levels			
(please specify)				
•	d (and its comp	oounds)		
	its compounds)			
ina - uo, Leau (and				
-	norting Ctatus			
Substance Re	porting Status	;		
Substance Re Applicable Pro	ograms			
Substance Re Applicable Pro	ograms	eria specified in the Ca	nada Gazette no	otice? Selecting "No"
Applicable Pro	ograms ostance meet the crit	eria specified in the Ca	nada Gazette no	otice? Selecting "No"
Substance Re Applicable Pro NPRI - Does this sub indicates voluntary re Yes ON MOE TRA - Doe	ograms ostance meet the crit eporting of this subst	eria specified in the Ca tance to the NPRI. *	in the Ontario R	egulation 455/09 under th
Substance Re Applicable Pro NPRI - Does this sub indicates voluntary re Yes ON MOE TRA - Doe TRA? Selecting "No"	ograms ostance meet the crit eporting of this subst	eria specified in the Ca tance to the NPRI. *	in the Ontario R	egulation 455/09 under the
Substance Re Applicable Pro NPRI - Does this sub indicates voluntary re Yes ON MOE TRA - Doe TRA? Selecting "No'	ograms ostance meet the crit eporting of this subst es this substance mee indicates voluntary	eria specified in the Ca tance to the NPRI. * et the criteria specified reporting of this substa	in the Ontario Ronce to the ON M	egulation 455/09 under th

Would you like to create an exit record for this ON MOE TRA substance? *
No
Comments
General Information about the Substance
Releases and Transfers of the Substance
Releases and Transfers of the Substance
Was the substance released on-site? *
Yes
Disposals and Off-site Transfers for Recycling
Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal? *
Yes
Tes
Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? *
Yes
Was the substance transferred off-site for recycling? *
No
Nature of Activities *
Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of
such activities.
Manufacture the Substance
Process the Substance
As a by-product
Otherwise Use of the Substance
TRA Quantifications
Enters the facility (Use), Creation, Contained in Product for ON MOE TRA

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Enters the facility (Use)
The amount of substance that enters a process as the substance itself or part of another substance, rolled at the facility level.
Quantity (kg) **
72351.600
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes
Creation
The amount of substance that is created
Quantity (kg) **
0
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes
Contained in Product
The amount of substance contained in product
Quantity (kg) **
64469.249
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes
Change in Method of Quantification
There has been a change in the method or combination of methods used to track and quantify the substance during the previous calendar year
Describe the changes **

Select the reason for change: **

Describe how the change impact	racking and quantification of the subs	stance **
Incidents out of the nor	mal course of events	
	out of the normal course of events the affected the results of tracking/quant	
Explain how tracking and quantific	cations were affected **	
Significant Process Cha	ange	
There has been a significat	nt process change at the facility during	g the previous calendar year.
On-site Releases		
Click "Edit" to enter your reportable	e values.In order to calculate totals, y	ou must click the "Validate" button.
Enter the values for rele	eases to air for the substa	nce
Releases to Air		
Category	Basis Of Estimate	Quantity (kg)
Stack or Point Releases	E2 - Published Emission Factors	0.2819
Storage or Handling Releases	NA - Not Applicable	
Fugitive Releases	E1 - Site Specific Emission Factors	1.1340
Spills	NA - Not Applicable	
Other Non-point Releases	NA - Not Applicable	
Total - Releases to Air		
1.4159		
Enter the values for rele	eases to water bodies	
Releases to Water Bod		
Category	Basis Of Estimate	Quantity (kg)

Direct Discharges	M1 - Continuous Emission Monitoring	0.0067
Spills	NA - Not Applicable	
Leaks	NA - Not Applicable	
Total - Releases to Water Bodies		
0.0067		
enter the specific quantity released Your releases from all water bodies Return".To add a water body, click	o all water bodies in the "Quantity" fie to each water body in the "Quantity" must equal the total quantity entered the "+" sign. You may leave a water l ove a water body from the list, click the	field in each water body section. d. When finished, click "Save and body quantity blank if there are no
Direct Discharges		
Basis Of Estimate M1 - Continuous Emission Monitor Quantity (kg) 0.0067	ing	
Water Bodies		
Redstone River		
Water Body		
Redstone River		
Quantity (kg)		
0.0067		
Province		
ON		

Water Shed ID			
Total Assigned (must eq	ual total reported)		
0.0067			
Enter the values	for releases to	land (surface and	d underground)
			must be specified in the
Comments)		Out of Tologood	made be opcomed in the
Category	Basis Of I	Estimate	Quantity (kg)
Spills	NA - Not A	Applicable	
Leaks	NA - Not A	Applicable	
Other	NA - Not A	Applicable	
Total - Releases to Land	l		
Total Quantity Released			
1.4226			
Breakdown of Ar	nual Releases		
☐ Distribute Equally			
Quarterly Breakd	lown *		
Jan - Mar %	Apr - Jun %	Jul - Sep %	Oct - Dec %
25	25	25	25
Total %			
100			
Reasons for Cha	nges in Quantit	ies Released fro	m Previous Year
Select the applicable rea			1011000 1001
Changes in production le			

Comments ? (On-Site Releases) **		
The facility was on care and mainte	enance in 2013.	
Disposals		
Reasons Why Substanc	e Was Disposed	
Select one or more reasons		
Production residues		
On-site Disposal (exclud	ling Tailings and Waste F	Rock)
•	values.In order to calculate totals, y	•
On-site Disposal		
Category	Basis Of Estimate	Quantity (kg)
Landfill	NA - Not Applicable	
Land Treatment	NA - Not Applicable	
Underground Injection	NA - Not Applicable	
Total - On-site Disposals		
Off-site Disposal (exclud	ling Tailings and Waste F	Rock)
Off-site Disposal		
Category	Basis Of Estimate	Quantity (kg)
Landfill	NA - Not Applicable	
Land Treatment	NA - Not Applicable	
Underground Injection	NA - Not Applicable	
Storage	NA - Not Applicable	
Total - Off-site Disposals		

Off-site Transfers (excluding Tailings and Waste Rock) Off-site Transfers for Treatment Prior to Final Disposal Category **Basis Of Estimate** Quantity (kg) **Physical Treatment** NA - Not Applicable Chemical Treatment NA - Not Applicable **Biological Treatment** NA - Not Applicable Incineration / Thermal NA - Not Applicable Municipal Sewage Treatment NA - Not Applicable Plant Total - Treatment Prior to Final Disposal Total Quantity Disposed (All Media) Disposal of Tailings and Waste Rock On-site Disposal of Tailings and Waste Rock **Basis Of Estimate** Category Quantity (kg) **Tailings Management** M3 - Source Testing 7880.928 Waste Rock Management NA - Not Applicable Total - On-site Disposal of Tailings and Waste Rock 7880.928 * Note that this is a Net Quantity, accounting for any additions or removals of the substance from the tailings or waste rock management area. Off-site Disposal of Tailings and Waste Rock Category **Basis Of Estimate** Quantity (kg) **Tailings Management** NA - Not Applicable

Waste Rock Management NA - Not Applicable
Total - Off-site Disposal of Tailings and Waste Rock
Additional Information - Tailings and Waste Rock
Concentration of the Substance in Tailings
Information on Sampling and Detection Limits for Tailings **
All samples above detection limit
Average Tailings Concentration (ppm)
68.0
Tailings Concentration – additional information
Concentration of the Substance in Waste Rock
Information on Sampling and Detection Limits for Waste Rock **
Average Waste Rock Concentration (ppm)
Waste Rock Concentration – additional information
Reasons for excluding quantities in tailings or waste rock
Reasons for Changes in Quantities Disposed from Previous Year
Select the applicable reason or reasons.
Changes in production levels
Comments? (Disposals)
The facility was on care and maintenance in 2013.
Recycling

Reasons for Changes in Quantities Recycled from Previous Year

Select the applicable reason or reasons *

No significant change (i.e. < 10%) or no change

Comments? (Recycling)

Comparison Report: Enters, Creation, Contained in Product

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Enters the facility (Use)

Enters the facility (Use)

Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change
72351.600	230.5540	2012	72121.0460	31281.63

Creation

Creation

Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	

Contained in Product

Contained in Product

Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change
64469.249	0	2012	64469.249	100

Reasons for Change

Reasons for Change

Reason(s) for Change

Increase in production levels	
(please specify)	

Comparison Report: On-site Releases

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Total	Releases	to	Δir
TOLAI	Neicases	w	\neg III

Tatal	D_{A}		+0	Λίκ
TOtal	RU	leases	ιΟ	ΑII

Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change
1.4159	0.0014	2012	1.4145	101035.71

Total Releases to Water

Total Releases to Water

Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change
0.0067	0.0272	2012	-0.0205	-75.37

Total Releases to Land

Total Releases to Land

Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	

Reasons for Change

Reasons for Change

Reason(s) for Change

Increase in production levels

(please specify)

Comparison Report: Disposals On-site, Off-site and Tailings and Waste Rock

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

- , ,	Therefore, you will be required to update all values and texts.								
Total On-site Disposals									
Total On-site Disposals									
Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change					
0	0	2012	0						
Total Off-site	Disposals								
Total Off-site	Disposals								
Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change					
0	0	2012	0						
Total Off-site	transfer for trea	atment Prior to F	Final Dispos	al					
Total Off-site	transfer for trea	atment Prior to F	Final Dispos	Total Off-site transfer for treatment Prior to Final Disposal					
O									
Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change					
Quantity (kg)	Last Reported Quantity (kg) *	of Last Reported	Change 0	% Change					
0	Quantity (kg) *	of Last Reported Quantity *	0	% Change					
o Total On-site	Quantity (kg) * 0 Disposal of Tai	of Last Reported Quantity *	o e Rock	% Change					
o Total On-site	Quantity (kg) * 0 Disposal of Tai	of Last Reported Quantity * 2012 lings and Waste	o e Rock	% Change					

Total Off-site	Disposal of Tai	ilings and Waste	e Rock			
Total Off-site	Total Off-site Disposal of Tailings and Waste Rock					
Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change		
0	0	2012	0			
Reasons for	Change					
Reasons for	Change					
Reason(s) for Char	nge					
Increase in produc	tion levels					
(please specify)						
Substance R Applicable Pr	•	eria specified in the Ca	nada Gazette no	otice? Selecting "No"		
Yes	Toporting of this substi	ance to the TVI TVI.				
ON MOE TRA - Do	es this substance mee o" indicates voluntary i	et the criteria specified reporting of this substa	in the Ontario Rence to the ON M	egulation 455/09 under the OE. *		
	he first report for this s	substance to the ON Mo	DE TRA? (Pleas	e select "Help" for further		
No						
Would you like to c	reate an exit record fo	r this ON MOE TRA su	bstance? *			
No						
Comments						

General Information about the Substance
Releases and Transfers of the Substance
Releases and Transfers of the Substance
Was the substance released on-site? *
Yes
If the substance was released on-site and the total quantity released was less than one tonne, select the check-box below
The substance will be reported as the sum of releases to all media (total of 1 tonne or less).
Disposals and Off-site Transfers for Recycling
Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal? *
Yes
Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? *
Yes
Was the substance transferred off-site for recycling? *
No
Nature of Activities *
Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of such activities.
Manufacture the Substance
Process the Substance
As a by-product
Otherwise Use of the Substance
TRA Quantifications
Enters the facility (Use), Creation, Contained in Product for ON MOE TRA
Enters the facility (Use)

The amount of substance that enters a process as the substance itself or part of another substance, rolled up at the facility level.

Quantity (Tonnes) **

26.529
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes
Creation
The amount of substance that is created
Quantity (Tonnes) **
0
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes
Contained in Product
The amount of substance contained in product
Quantity (Tonnes) **
0.000
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes
Change in Method of Quantification
There has been a change in the method or combination of methods used to track and quantify the substance during the previous calendar year
Describe the changes **
Select the reason for change: **
Describe how the change impact tracking and quantification of the substance **

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Incidents out of the nor	mal course of events				
There have been incidents out of the normal course of events that occurred at the facility during the previous calendar year that affected the results of tracking/quantification of this substance.					
Explain how tracking and quantific	cations were affected **				
Significant Process Cha	ange				
☐ There has been a significan	nt process change at the facility during	g the previous calendar year.			
On-site Releases					
Click "Edit" to enter your reportable	e values.In order to calculate totals, y	ou must click the "Validate" button.			
Enter the values for rele	eases to air for the substa	nce			
Releases to Air					
Category	Basis Of Estimate	Quantity (Tonnes)			
Stack or Point Releases	E2 - Published Emission Factors	0.0001			
Storage or Handling Releases	NA - Not Applicable				
Fugitive Releases	E2 - Published Emission Factors	0.0004			
Spills	NA - Not Applicable				
Other Non-point Releases	NA - Not Applicable				
Total - Releases to Air					
0.0005					
Enter the values for rele	eases to water bodies				
Releases to Water Bod	ies				
Category	Basis Of Estimate	Quantity (Tonnes)			
Direct Discharges	NA - Not Applicable				
Spills	NA - Not Applicable				

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Leaks	NA - Not	Applicable	
Total - Releases to Wat	er Bodies		
Enter the values	for releases to	land (surface and	d underground)
		•	must be specified in the
Comments)			·
Category	Basis Of	Estimate	Quantity (Tonnes)
Spills	NA - Not	Applicable	
Looks	NA Not	Annliaghla	
Leaks	INA - NOU	Applicable	
Other	NA - Not	Applicable	
Total - Releases to Land	d		
Total Quantity Released	j		
0.0005			
Breakdown of Aı	nnual Releases		
☐ Distribute Equally			
Quarterly Break	down *		
Jan - Mar %	Apr - Jun %	Jul - Sep %	Oct - Dec %
25	25	25	25
Total %			
100			
Reasons for Cha	anges in Quanti	ties Released fro	m Previous Year
Select the applicable rea			
Changes in production	levels		

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Comments ? (On-Site Releases) **

The facility was on care and maint	enance in 2013.	
Disposals		
Reasons Why Substance	e Was Disposed	
Select one or more reasons		
Production residues		
•	ding Tailings and Waste F values.In order to calculate totals, y	•
On-site Disposal		
Category	Basis Of Estimate	Quantity (Tonnes)
Landfill	NA - Not Applicable	
Land Treatment	NA - Not Applicable	
Underground Injection	NA - Not Applicable	
Total - On-site Disposals		
Off-site Disposal (exclud	ling Tailings and Waste F	Rock)
Off-site Disposal		
Category	Basis Of Estimate	Quantity (Tonnes)
Landfill	NA - Not Applicable	
Land Treatment	NA - Not Applicable	
Underground Injection	NA - Not Applicable	
Storage	NA - Not Applicable	
Total - Off-site Disposals		

Off-site Transfers (excluding Tailings and Waste Rock) Off-site Transfers for Treatment Prior to Final Disposal Category **Basis Of Estimate Quantity (Tonnes) Physical Treatment** NA - Not Applicable Chemical Treatment NA - Not Applicable **Biological Treatment** NA - Not Applicable Incineration / Thermal NA - Not Applicable Municipal Sewage Treatment NA - Not Applicable Plant Total - Treatment Prior to Final Disposal Total Quantity Disposed (All Media) Disposal of Tailings and Waste Rock On-site Disposal of Tailings and Waste Rock **Basis Of Estimate** Category **Quantity (Tonnes) Tailings Management** M3 - Source Testing 61.425 Waste Rock Management NA - Not Applicable Total - On-site Disposal of Tailings and Waste Rock 61.425 * Note that this is a Net Quantity, accounting for any additions or removals of the substance from the tailings or waste rock management area. Off-site Disposal of Tailings and Waste Rock Category **Basis Of Estimate Quantity (Tonnes) Tailings Management** NA - Not Applicable

Waste Rock Management NA - Not Applicable				
Total - Off-site Disposal of Tailings and Waste Rock				
Additional Information - Tailings and Waste Rock				
Concentration of the Substance in Tailings				
Information on Sampling and Detection Limits for Tailings **				
All samples above detection limit				
Average Tailings Concentration (ppm)				
530.0				
Tailings Concentration – additional information				
Concentration of the Substance in Waste Rock				
Information on Sampling and Detection Limits for Waste Rock **				
Average Waste Rock Concentration (ppm)				
Waste Rock Concentration – additional information				
Reasons for excluding quantities in tailings or waste rock				
Reasons for Changes in Quantities Disposed from Previous Year				
Select the applicable reason or reasons.				
Changes in production levels				
Comments? (Disposals)				
The facility was on care and maintenance in 2013.				
Recycling				

Select the applicable reason or reasons *

No significant change (i.e. < 10%) or no change

Comments? (Recycling)

Comparison Report: Enters, Creation, Contained in Product

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Enters the facility (Use)

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
26.529	52.8921	2012	-26.3631	-49.84

Creation

Creation

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	

Contained in Product

Contained in Product

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0.000	0	2012	0.000	

Reasons for Change

Reasons for Change

Reason(s) for Change

0.0005

nvironment Canada				
Decrease in product	ion levels			
(please specify)				
Comparison R	eport: On-site	Releases		
year's reporting to the previous year's report	e last year's values.lf	you selected the pre-p the current year's tem	oopulation functi	ted quantity" reflect current on, the exact values in your the comparison report.
Total Releases	s to Air			
Total Releases	s to Air			
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change

0.0006

Total Releases to Water

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	

-0.0001

-16.67

2012

Total Releases to Land

Total Releases to Land

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	

Reasons for Change

Reasons for Change

Reason(s) for Change

Decrease in production levels

(please specify)

Comparison Report: Disposals On-site, Off-site and Tailings and Waste Rock

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Therefore, you will b	e required to update a	III values and texts.		
Total On-site I	Disposals			
Total On-site I	Disposals			
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	
Total Off-site I	Disposals			
Total Off-site I	Disposals			
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	
Total Off-site t	transfer for trea	tment Prior to F	Final Disposal	
Total Off-site t	transfer for trea	tment Prior to F	inal Disposal	
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	
	Disposal of Tail Disposal of Tail	•		
Quantity (Tonnes)	Last Reported	Reporting Period	Change	% Change
adaminy (101111es)	Quantity (Tonnes) *	of Last Reported Quantity *	Cilaliye	70 Change
61.425	95.2960	2012	-33.8710	-35.54

Total Off-site [Disposal of Tail	ings and Waste	Rock	
Total Off-site [Disposal of Tail	ings and Waste	Rock	
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2013	0	
Reasons for C	hange			
Reasons for C	hange			
Reason(s) for Chang	je			
Decrease in product	ion levels			
(please specify)				
NA - 11, Nickel (and	· , ,	,		
Substance Re				
Applicable Pro				
	estance meet the crite eporting of this substa	ria specified in the Car ince to the NPRI. *	nada Gazette notice?	Selecting "No"
Yes				
ON MOE TRA - Doe TRA? Selecting "No"	s this substance meet indicates voluntary re	t the criteria specified i eporting of this substar	n the Ontario Regula	tion 455/09 under the
Yes				
Is this considered the clarification) *	e first report for this su	ubstance to the ON MC	DE TRA? (Please sele	ect "Help" for further
No				
Would you like to cre	eate an exit record for	this ON MOE TRA sub	ostance? *	
No				
Comments				

General Information about the Substance
Releases and Transfers of the Substance
Releases and Transfers of the Substance
Was the substance released on-site? *
Yes
If the substance was released on-site and the total quantity released was less than one tonne, select the check-box below
The substance will be reported as the sum of releases to all media (total of 1 tonne or less).
Disposals and Off-site Transfers for Recycling
Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal? *
Yes
Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? *
Yes
Was the substance transferred off-site for recycling? *
No
Nature of Activities *
Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of such activities.
Manufacture the Substance
For sale/distribution
Process the Substance
Otherwise Use of the Substance
TRA Quantifications
Enters the facility (Use), Creation, Contained in Product for ON MOE TRA
Enters the facility (Use)

The amount of substance that enters a process as the substance itself or part of another substance, rolled up

Quantity (Tonnes) **

at the facility level.

1941.435
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes
Creation
The amount of substance that is created
Quantity (Tonnes) **
0
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes
Contained in Product
The amount of substance contained in product
Quantity (Tonnes) **
1897.356
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes
Change in Method of Quantification
There has been a change in the method or combination of methods used to track and quantify the substance during the previous calendar year
Describe the changes **
Select the reason for change: **
Describe how the change impact tracking and quantification of the substance **
The state of the s

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Inci	dents out of the norr	mal course of events		
	There have been incidents out of the normal course of events that occurred at the facility during the previous calendar year that affected the results of tracking/quantification of this substance.			
Expla	ain how tracking and quantific	ations were affected **		
Sig	nificant Process Cha	inge		
	There has been a significan	t process change at the facility during	g the previous calendar year.	
On-	site Releases			
Click	"Edit" to enter your reportable	e values.In order to calculate totals, y	ou must click the "Validate" button.	
Ent	er the values for rele	eases to air for the substa	nce	
Rel	eases to Air			
Cate	gory	Basis Of Estimate	Quantity (Tonnes)	
Stac	k or Point Releases	E2 - Published Emission Factors	0.0076	
Stora	age or Handling Releases	NA - Not Applicable		
Fugi	tive Releases	E1 - Site Specific Emission Factors	0.0304	
Spills	S	NA - Not Applicable		
Othe	er Non-point Releases	NA - Not Applicable		
Total	- Releases to Air			
0.03	80			
Ent	er the values for rele	eases to water bodies		
Rel	eases to Water Bodi	es		
Cate	gory	Basis Of Estimate	Quantity (Tonnes)	
Direc	ct Discharges	M1 - Continuous Emission Monitoring	0.0002	
Spills	S	NA - Not Applicable		

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Leaks	NA - Not Applicable
Total - Releases to Water Boo	dies
0.0002	
Assign releases to w	vater bodies
enter the specific quantity releases from all water be Return". To add a water body,	sed to all water bodies in the "Quantity" field under the release category. Then eased to each water body in the "Quantity" field in each water body section. To bodies must equal the total quantity entered. When finished, click "Save and click the "+" sign. You may leave a water body quantity blank if there are no be remove a water body from the list, click the "Delete" icon to the right of the
Assign Releases to	Water Bodies
Enter assigned values for	
Direct Discharges	
Basis Of Estimate	
M1 - Continuous Emission Me	onitoring
Quantity (Tonnes)	
0.0002	
Water Bodies	
Redstone River	
Water Body	
Redstone River	
Quantity (Tonnes)	
0.0002	
Province	
ON	
Water Shed ID	
vvalet oned id	

Total Assigned (must equal total reported)

0.0002				
Enter the valu	es for rele	ases to l	and (surface an	d underground)
Releases to La	and (the n	ature of	"Other" releases	must be specified in the
Comments)				
Category		Basis Of Estimate		Quantity (Tonnes)
Spills		NA - Not Applicable		
Leaks		NA - Not A	pplicable	
Other		NA - Not Applicable		
Total - Releases to L	and			
Total Quantity Relea	sed			
0.0382				
Breakdown of	Annual Re	eleases		
☐ Distribute Equ	ually			
Quarterly Brea	akdown *			
Jan - Mar %	Apr - Ju	ın %	Jul - Sep %	Oct - Dec %
25	25		25	25
Total %				
100				
Reasons for C	hanges in	Quantiti	es Released fro	m Previous Year
Select the applicable	•			
Changes in producti	on levels			
Comments ? (On-Sit	e Releases) **			
The facility was on c	care and mainte	enance in 20	13.	
Disposals				

Reasons Why Subst	tance Was Disposed	
Select one or more reasons		
Production residues		
•	cluding Tailings and Wa	ste Rock) otals, you must click the "Validate" button.
On-site Disposal		
Category	Basis Of Estimate	Quantity (Tonnes)
Landfill	NA - Not Applicable	
Land Treatment	NA - Not Applicable	
Underground Injection	NA - Not Applicable	
Total - On-site Disposals		
Off-site Disposal (ex Off-site Disposal	cluding Tailings and Wa	ste Rock)
Category	Basis Of Estimate	Quantity (Tonnes)
Landfill	NA - Not Applicable	
Land Treatment	NA - Not Applicable	
Underground Injection	NA - Not Applicable	
Storage	NA - Not Applicable	
Total - Off-site Disposals		
Off-site Transfers (e	xcluding Tailings and Wa	aste Rock)
Off-site Transfers fo	r Treatment Prior to Fina	ıl Disposal
Category	Basis Of Estimate	Quantity (Tonnes)

Physical Treatment	NA - Not Applicable	
Chemical Treatment	NA - Not Applicable	
Biological Treatment	NA - Not Applicable	
Incineration / Thermal	NA - Not Applicable	
Municipal Sewage Treatment Plant	NA - Not Applicable	
Total - Treatment Prior to Final Dis	posal	
Total Quantity Disposed (All Media)	
Disposal of Tailings and		
On-site Disposal of Taili	ngs and Waste Rock	Quantity (Tonnes)
		Quantity (Tonnes) 44.040
On-site Disposal of Taili Category	ngs and Waste Rock Basis Of Estimate	
On-site Disposal of Taili Category Tailings Management	ngs and Waste Rock Basis Of Estimate M3 - Source Testing NA - Not Applicable	
On-site Disposal of Taili Category Tailings Management Waste Rock Management	ngs and Waste Rock Basis Of Estimate M3 - Source Testing NA - Not Applicable	
On-site Disposal of Taili Category Tailings Management Waste Rock Management Total - On-site Disposal of Tailings 44.040	ngs and Waste Rock Basis Of Estimate M3 - Source Testing NA - Not Applicable and Waste Rock	
On-site Disposal of Taili Category Tailings Management Waste Rock Management Total - On-site Disposal of Tailings 44.040 * Note that this is a Net Quantity, a	ngs and Waste Rock Basis Of Estimate M3 - Source Testing NA - Not Applicable and Waste Rock ccounting for any additions or remove	44.040
On-site Disposal of Taili Category Tailings Management Waste Rock Management Total - On-site Disposal of Tailings 44.040 * Note that this is a Net Quantity, a or waste rock management area.	ngs and Waste Rock Basis Of Estimate M3 - Source Testing NA - Not Applicable and Waste Rock ccounting for any additions or remove	44.040
On-site Disposal of Taili Category Tailings Management Waste Rock Management Total - On-site Disposal of Tailings 44.040 * Note that this is a Net Quantity, a or waste rock management area. Off-site Disposal of Taili	ngs and Waste Rock Basis Of Estimate M3 - Source Testing NA - Not Applicable and Waste Rock ccounting for any additions or remove ngs and Waste Rock	44.040 als of the substance from the tailings

Total - Off-site Disposal of Tailings and Waste Rock

Additional Information - Tailings and Waste Rock
Concentration of the Substance in Tailings
Information on Sampling and Detection Limits for Tailings **
All samples above detection limit
Average Tailings Concentration (ppm)
380
Tailings Concentration – additional information
Concentration of the Substance in Waste Rock
Information on Sampling and Detection Limits for Waste Rock **
All samples above detection limit
Average Waste Rock Concentration (ppm)
Waste Rock Concentration – additional information
Reasons for excluding quantities in tailings or waste rock
Reasons for Changes in Quantities Disposed from Previous Year
Select the applicable reason or reasons.
Changes in production levels
Comments? (Disposals)
Facility was on care and maintenance in 2013.
Recycling
Reasons for Changes in Quantities Recycled from Previous Year
Select the applicable reason or reasons *
No significant change (i.e. < 10%) or no change

Comments? (Recycling)

Comparison Report: Enters, Creation, Contained in Product

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Therefore, you will b	•	all values and texts.		
Enters the fac	,			
Quantity (Tonnes)	,	Reporting Period of Last Reported Quantity *	Change	% Change
1941.435	379.7360	2012	1561.6990	411.26
Creation				
Creation				
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	
Contained in F				
Contained in F Quantity (Tonnes)		Reporting Period of Last Reported Quantity *	Change	% Change
1897.356	152.7635	2012	1744.5925	1142.02
Reasons for C	Change			
Reasons for C	Change			
Reason(s) for Chang	ge			
Increase in production	on levels			
(please specify)				

Comparison Report: On-site Releases

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Total Release	s to Air			
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0.0380	0.0025	2012	0.0355	1420.0
Total Release	s to Water			
Total Release	s to Water			
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0.0002	0.0065	2012	-0.0063	-96.92
Total Release	s to Land			
Total Release		Reporting Period of Last Reported Quantity *	Change	% Change
Total Release	s to Land Last Reported Quantity	of Last Reported	Change 0	% Change
Total Releases Total Releases Quantity (Tonnes) Reasons for Concessor f	s to Land Last Reported Quantity (Tonnes) * 0 Change Change	of Last Reported Quantity *		% Change
Total Releases Quantity (Tonnes) Reasons for C Reasons for C Reason(s) for Change	s to Land Last Reported Quantity (Tonnes) * 0 Change Change	of Last Reported Quantity *		% Change

Comparison Report: Disposals On-site, Off-site and Tailings and Waste Rock

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Total On-site I	Disposals			
Total On-site I	Disposals			
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	
Total Off-site I	Disposals			
Total Off-site I	Disposals			
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	
• · · · · · · · · · · · · · · · · · · ·			Final Disposa	
Quantity (Tonnes)			•	
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
Quantity (Tonnes)	Last Reported Quantity	Reporting Period of Last Reported	•	
0	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	
o Total On-site I	Last Reported Quantity (Tonnes) * 0 Disposal of Tail	Reporting Period of Last Reported Quantity * 2012 ings and Waste	Change 0 Rock	
o Total On-site I Total On-site I	Last Reported Quantity (Tonnes) * 0 Disposal of Tail Disposal of Tail	Reporting Period of Last Reported Quantity * 2012 ings and Waste	Change 0 Rock Rock	% Change
o Total On-site I	Last Reported Quantity (Tonnes) * 0 Disposal of Tail	Reporting Period of Last Reported Quantity * 2012 ings and Waste	Change 0 Rock	
o Total On-site I Total On-site I	Last Reported Quantity (Tonnes) * 0 Disposal of Tail Disposal of Tail Last Reported Quantity	Reporting Period of Last Reported Quantity * 2012 ings and Waste ings and Waste Reporting Period of Last Reported	Change 0 Rock Rock	% Change
Total On-site I Total On-site I Quantity (Tonnes)	Last Reported Quantity (Tonnes) * 0 Disposal of Tail Disposal of Tail Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity * 2012 ings and Waste ings and Waste Reporting Period of Last Reported Quantity *	Change 0 Rock Rock Change -178.9244	% Change
Total On-site I Total On-site I Quantity (Tonnes) 44.040 Total Off-site I	Last Reported Quantity (Tonnes) * 0 Disposal of Tail Disposal of Tail Last Reported Quantity (Tonnes) * 222.9644	Reporting Period of Last Reported Quantity * 2012 ings and Waste ings and Waste Reporting Period of Last Reported Quantity * 2012 ings and Waste Reported Quantity *	Change 0 Rock Rock Change -178.9244 Rock	% Change
Total On-site I Total On-site I Quantity (Tonnes) 44.040 Total Off-site I	Last Reported Quantity (Tonnes) * 0 Disposal of Tail Disposal of Tail Last Reported Quantity (Tonnes) * 222.9644 Disposal of Tail	Reporting Period of Last Reported Quantity * 2012 ings and Waste ings and Waste Reporting Period of Last Reported Quantity * 2012 ings and Waste Reported Quantity *	Change 0 Rock Rock Change -178.9244 Rock	% Change

0	0	2012	0		
Reasons	for Change				
	for Change				
Reason(s) fo	•				
Decrease in	production levels				
(please speci	ify)				
(piedes speed					
NIA 40	0.1		\		
<u> </u>	Selenium (and enium (and its compo	l its compounds)		
NA - 12, Oek	eriidiri (arid its compo	urius)			
Substanc	ce Reporting St	atus			
	le Programs	ardo			
	_	he criteria specified in	the Canada Gazette	notico? Solocti	na "No"
indicates volu	untary reporting of this	substance to the NPR	ine Canada Gazetti I. *	FIIOlice: Selectii	ig No
Yes					
ON MOE TRA? Selecti	A - Does this substanding "No" indicates volu	ce meet the criteria spe intary reporting of this	ecified in the Ontarion	Regulation 455 N MOE. *	/09 under the
Yes					
Is this consid clarification) '		r this substance to the	ON MOE TRA? (PI	ease select "Help	o" for further
Yes					
Would you lik	ce to create an exit rec	cord for this ON MOE T	RA substance? *		
No					
Commente					
Comments					
General I	Information abo	out the Substan	ce		
Releases	and Transfers	of the Substan	ce		
Releases	and Transfers	of the Substan	ce		

Was the substance released on-site? *

Yes
Disposals and Off-site Transfers for Recycling
Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal? *
Yes
Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? *
Yes
Was the substance transferred off-site for recycling? *
No
Nature of Activities *
Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of such activities.
Manufacture the Substance
Process the Substance
As a by-product
Otherwise Use of the Substance
TRA Quantifications
Enters the facility (Use), Creation, Contained in Product for ON MOE TRA
Enters the facility (Use)
The amount of substance that enters a process as the substance itself or part of another substance, rolled up
at the facility level.
Quantity (kg) **
9646.880
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes
Creation

The amount of substance that is created
Quantity (kg) **
0
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes
Contained in Product
The amount of substance contained in product
Quantity (kg) **
9565.564
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes
Change in Method of Quantification
There has been a change in the method or combination of methods used to track and quantify the substance during the previous calendar year
Describe the changes **
Select the reason for change: **
Describe how the change impact tracking and quantification of the substance **
Incidents out of the normal course of events
There have been incidents out of the normal course of events that occurred at the facility during the previous calendar year that affected the results of tracking/quantification of this substance.
Explain how tracking and quantifications were affected **

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Significant Process Cha	nge	
There has been a significant	process change at the facility during	the previous calendar year.
On-site Releases		
Click "Edit" to enter your reportable	values.In order to calculate totals, ye	ou must click the "Validate" button.
Enter the values for release	ases to air for the substa	nce
Releases to Air		
Category	Basis Of Estimate	Quantity (kg)
Stack or Point Releases	E2 - Published Emission Factors	0.0376
Storage or Handling Releases	NA - Not Applicable	
Fugitive Releases	E2 - Published Emission Factors	0.1512
Spills	NA - Not Applicable	
Other Non-point Releases	NA - Not Applicable	
Total - Releases to Air		
0.1888		
Enter the values for rele	ases to water bodies	
Releases to Water Bodie		
Category	Basis Of Estimate	Quantity (kg)
Direct Discharges	NA - Not Applicable	
Spills	NA - Not Applicable	
Leaks	NA - Not Applicable	
Total - Releases to Water Bodies		
Enter the values for rele	ases to land (surface and	l underground)

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Releases to Land (the nature of "Other" releases must be specified in the Comments)

Category	Basis Of Estin	nate	Quantity (kg)
Spills	NA - Not Appli	cable	
Leaks	NA - Not Appli	cable	
Other	NA - Not Appli	cable	
Total - Releases to Land			
Total Quantity Released 0.1888			
Breakdown of Ann	ıual Releases		
☐ Distribute Equally			
Quarterly Breakdo	wn *		
Jan - Mar %	Apr - Jun %	Jul - Sep %	Oct - Dec %
25	25	25	25
Total %			
100			
Reasons for Chan Select the applicable reasons		Released from	n Previous Year
Not applicable (first year r	eporting this substance)		
Comments ? (On-Site Rele	eases) **		
Disposals			
Reasons Why Sub	ostance Was Disp	osed	
Select one or more reason	S		
Production residues			

Chemical Treatment

On-site Disposal (excluding Tailings and Waste Rock)

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button. **On-site Disposal Basis Of Estimate** Quantity (kg) Category Landfill NA - Not Applicable NA - Not Applicable Land Treatment **Underground Injection** NA - Not Applicable Total - On-site Disposals Off-site Disposal (excluding Tailings and Waste Rock) Off-site Disposal **Basis Of Estimate** Quantity (kg) Category Landfill NA - Not Applicable Land Treatment NA - Not Applicable **Underground Injection** NA - Not Applicable Storage NA - Not Applicable Total - Off-site Disposals Off-site Transfers (excluding Tailings and Waste Rock) Off-site Transfers for Treatment Prior to Final Disposal **Basis Of Estimate** Quantity (kg) Category **Physical Treatment** NA - Not Applicable

NA - Not Applicable

Biological Treatment	NA - Not Applicable	
Incineration / Thermal	NA - Not Applicable	
Municipal Sewage Treatment Plant	NA - Not Applicable	
Total - Treatment Prior to Final Dis	posal	
Total Quantity Disposed (All Media)	
Disposal of Tailings and		
On-site Disposal of Taili	•	
Category	Basis Of Estimate	Quantity (kg)
Tailings Management	M3 - Source Testing	81.127
Waste Rock Management	NA - Not Applicable	
Total - On-site Disposal of Tailings	and Waste Rock	
81.127		
* Note that this is a Net Quantity, a or waste rock management area.	ccounting for any additions or remova	als of the substance from the tailings
Off-site Disposal of Taili	ngs and Waste Rock	
Category	Basis Of Estimate	Quantity (kg)
Tailings Management	NA - Not Applicable	
Waste Rock Management	NA - Not Applicable	
Total - Off-site Disposal of Tailings	and Waste Rock	
Additional Information -	Tailings and Waste Rock	

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Concentration of the Substance in Tailings
Information on Sampling and Detection Limits for Tailings **
All samples above detection limit
Average Tailings Concentration (ppm)
0.7
Tailings Concentration – additional information
Concentration of the Substance in Waste Rock
Information on Sampling and Detection Limits for Waste Rock **
Average Waste Rock Concentration (ppm)
Waste Rock Concentration – additional information
Reasons for excluding quantities in tailings or waste rock
Reasons for Changes in Quantities Disposed from Previous Year
Select the applicable reason or reasons.
Not applicable (first year reporting this substance)
Comments? (Disposals)
Recycling
Reasons for Changes in Quantities Recycled from Previous Year
Select the applicable reason or reasons *
Not applicable (first year reporting this substance)
Comments? (Recycling)

NA - 13, Silver (and its compounds)
NA - 13, Silver (and its compounds)
Substance Reporting Status
Applicable Programs
NPRI - Does this substance meet the criteria specified in the Canada Gazette notice? Selecting "No" indicates voluntary reporting of this substance to the NPRI. *
Yes
ON MOE TRA - Does this substance meet the criteria specified in the Ontario Regulation 455/09 under the TRA? Selecting "No" indicates voluntary reporting of this substance to the ON MOE. *
Yes
Is this considered the first report for this substance to the ON MOE TRA? (Please select "Help" for further clarification) *
Yes
Would you like to create an exit record for this ON MOE TRA substance? *
No
Comments
General Information about the Substance
Releases and Transfers of the Substance
Releases and Transfers of the Substance
Was the substance released on-site? *
Yes
If the substance was released on-site and the total quantity released was less than one tonne, select the check-box below
☐ The substance will be reported as the sum of releases to all media (total of 1 tonne or less).
Disposals and Off-site Transfers for Recycling
Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal? *
No

Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? *

No
Was the substance transferred off-site for recycling? *
No
INO
Nature of Activities *
Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of such activities.
Manufacture the Substance
Process the Substance
As a by-product
Otherwise Use of the Substance
TRA Quantifications
Enters the facility (Use), Creation, Contained in Product for ON MOE TRA
Enters the facility (Use)
The amount of substance that enters a process as the substance itself or part of another substance, rolled up at the facility level.
Quantity (Tonnes) **
10.250
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes
Creation
The amount of substance that is created
Quantity (Tonnes) **
0

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *

Yes	
Contained in Product	
The amount of substance contained in product	
Quantity (Tonnes) **	
10.250	
Do you want to use ranges for public reporting? If "No" is public may contain the exact quantity provided. *	selected you are indicating that any report to the
Yes	
Change in Mathed of Overtification	
Change in Method of Quantification	
There has been a change in the method or combin substance during the previous calendar year	nation of methods used to track and quantify the
Describe the changes **	
Select the reason for change: **	
Describe how the change impact tracking and quantificati	ion of the substance **
Incidents out of the normal course of ev	vents
There have been incidents out of the normal cours previous calendar year that affected the results of	
Explain how tracking and quantifications were affected **	
Significant Process Change	
Significant Process Change	
There has been a significant process change at the	e facility during the previous calendar year.
On-site Releases	
Click "Edit" to enter your reportable values.In order to cale	culate totals, you must click the "Validate" button.
Enter the values for releases to air for the	he substance
Releases to Air	
Category Basis Of Estimate	Quantity (Tonnes)

Stack or Point Releases	NA - Not Applicable	
Storage or Handling Releases	NA - Not Applicable	
Fugitive Releases	E2 - Published Emission Factors	0.0002
Spills	NA - Not Applicable	
Other Non-point Releases	NA - Not Applicable	
Total - Releases to Air		
0.0002		
Enter the values for rele	eases to water bodies	
Releases to Water Bodi	es	
Category	Basis Of Estimate	Quantity (Tonnes)
Direct Discharges	NA - Not Applicable	
Spills	NA - Not Applicable	
Leaks	NA - Not Applicable	
Total - Releases to Water Bodies		
Enter the values for rele	eases to land (surface and	d underground)
	ature of "Other" releases	,
Comments)		•
Category	Basis Of Estimate	Quantity (Tonnes)
Spills	NA - Not Applicable	
Leaks	NA - Not Applicable	
Other	NA - Not Applicable	

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Total - Releases to Land			
Total Quantity Released			
0.0002			
Breakdown of Ann	nual Releases		
☐ Distribute Equally			
Quarterly Breakdo	own *		
Jan - Mar %	Apr - Jun %	Jul - Sep %	Oct - Dec %
25	25	25	25
Total %			
100			
		Dalasas difusion Dusi	daya Vaar
		Released from Prev	nous rear
Select the applicable reason			
Changes in production lev	els		
Comments ? (On-Site Rele	eases) **		
The facility was on care a	nd maintenance in 2013.		
Disposals			
Reasons for Chan	ges in Quantities [Disposed from Prev	vious Year
Select the applicable reason	on or reasons.		
No significant change (i.e.	< 10%) or no change		
Comments? (Disposals)			
Recycling			
	ges in Quantities F	Recycled from Prev	rious Year
Select the applicable reason			
No significant change (i.e.	< 10%) or no change		
Comments? (Recycling)			

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7440-	62-2, Vanadium (and its compounds)
7440-62	-2, Vanadium (and its compounds)
Subst	ance Reporting Status
Applio	cable Programs
NPRI - [indicates	Does this substance meet the criteria specified in the Canada Gazette notice? Selecting "No" s voluntary reporting of this substance to the NPRI. *
Yes	
ON MOE	ETRA - Does this substance meet the criteria specified in the Ontario Regulation 455/09 under the electing "No" indicates voluntary reporting of this substance to the ON MOE.*
Yes	
Is this co	onsidered the first report for this substance to the ON MOE TRA? (Please select "Help" for further ion) *
Yes	
Would y	ou like to create an exit record for this ON MOE TRA substance? *
No	
•	
Comme	
Gene	ral Information about the Substance
Relea	ses and Transfers of the Substance
Relea	ses and Transfers of the Substance
Was the	substance released on-site? *
No	
	ostance was released on-site and the total quantity released was less than one tonne, select the ox below
□ т	he substance will be reported as the sum of releases to all media (total of 1 tonne or less).
Dispo	sals and Off-site Transfers for Recycling
•	substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal? *
Yes	

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the

public may contain the exact quantity provided. *
Yes
Contained in Product
The amount of substance contained in product
Quantity (Tonnes) **
0
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes
Change in Method of Quantification
There has been a change in the method or combination of methods used to track and quantify the substance during the previous calendar year
Describe the changes **
Select the reason for change: **
Describe how the change impact tracking and quantification of the substance **
Incidents out of the normal course of events
There have been incidents out of the normal course of events that occurred at the facility during the previous calendar year that affected the results of tracking/quantification of this substance.
Explain how tracking and quantifications were affected **
Significant Process Change
There has been a significant process change at the facility during the previous calendar year.
On-site Releases
Click "Edit" to enter your reportable values.In order to calculate totals, you must click the "Validate" button.
Reasons for Changes in Quantities Released from Previous Year

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Select the applicable reason or reasons *

g this substance)	
**	
ce Was Disposed	
Iding Tailings and Wa	ste Rock) otals, you must click the "Validate" button.
Basis Of Estimate	Quantity (Tonnes)
	quantity (10miles)
NA - Not Applicable	
NA - Not Applicable	
NA - Not Applicable	
ıding Tailings and Wa	ste Rock)
Basis Of Estimate	Quantity (Tonnes)
NA - Not Applicable	
	Basis Of Estimate NA - Not Applicable NA - Not Applicable NA - Not Applicable NA - Not Applicable Rasis Of Estimate NA - Not Applicable NA - Not Applicable NA - Not Applicable NA - Not Applicable

Total - Off-site Disposals

Off-site Transfers (excluding Tailings and Waste Rock) Off-site Transfers for Treatment Prior to Final Disposal Category **Basis Of Estimate Quantity (Tonnes) Physical Treatment** NA - Not Applicable **Chemical Treatment** NA - Not Applicable **Biological Treatment** NA - Not Applicable Incineration / Thermal NA - Not Applicable Municipal Sewage Treatment NA - Not Applicable Plant Total - Treatment Prior to Final Disposal Total Quantity Disposed (All Media) Disposal of Tailings and Waste Rock On-site Disposal of Tailings and Waste Rock **Basis Of Estimate** Category **Quantity (Tonnes)** Tailings Management 10.778 M3 - Source Testing NA - Not Applicable Waste Rock Management Total - On-site Disposal of Tailings and Waste Rock 10.778 * Note that this is a Net Quantity, accounting for any additions or removals of the substance from the tailings or waste rock management area. Off-site Disposal of Tailings and Waste Rock Category **Basis Of Estimate Quantity (Tonnes)**

Tailings Management	NA - Not Applicable
Waste Rock Management	NA - Not Applicable
Total - Off-site Disposal of Tailings	and Waste Rock
Additional Information -	Tailings and Waste Rock
Concentration of the Sub	ostance in Tailings
Information on Sampling and Detec	ction Limits for Tailings **
All samples above detection limit	
Average Tailings Concentration (pp	om)
93.0	
Tailings Concentration – additional	information
Concentration of the Sub	ostance in Waste Rock
Information on Sampling and Detec	ction Limits for Waste Rock **
Average Waste Rock Concentration	n (ppm)
Waste Rock Concentration – addition	onal information
Reasons for excluding quantities in	tailings or waste rock
Reasons for Changes in	Quantities Disposed from Previous Year
Select the applicable reason or reas	sons.
Not applicable (first year reporting t	this substance)
Comments? (Disposals)	

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Recycling
Reasons for Changes in Quantities Recycled from Previous Year
Select the applicable reason or reasons *
Not applicable (first year reporting this substance)
Comments? (Recycling)
NA - 14, Zinc (and its compounds)
NA - 14, Zinc (and its compounds)
Substance Reporting Status
Applicable Programs
NPRI - Does this substance meet the criteria specified in the Canada Gazette notice? Selecting "No" indicates voluntary reporting of this substance to the NPRI. *
Yes
ON MOE TRA - Does this substance meet the criteria specified in the Ontario Regulation 455/09 under the TRA? Selecting "No" indicates voluntary reporting of this substance to the ON MOE. *
Yes
Is this considered the first report for this substance to the ON MOE TRA? (Please select "Help" for further clarification) *
Yes
Would you like to create an exit record for this ON MOE TRA substance? *
No
Comments
General Information about the Substance
Releases and Transfers of the Substance
Releases and Transfers of the Substance
Was the substance released on-site? *
Yes

If the substance was released on-site and the total quantity released was less than one tonne, select the check-box below
The substance will be reported as the sum of releases to all media (total of 1 tonne or less).
Disposals and Off-site Transfers for Recycling
Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal? *
Yes
Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? *
Yes
Was the substance transferred off-site for recycling? *
No
Nature of Activities *
Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of such activities.
Manufacture the Substance
Process the Substance
As a by-product
Otherwise Use of the Substance
TRA Quantifications
Enters the facility (Use), Creation, Contained in Product for ON MOE TRA
Enters the facility (Use)
The amount of substance that enters a process as the substance itself or part of another substance, rolled up at the facility level.
Quantity (Tonnes) **
24.117
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes

Creation
The amount of substance that is created
Quantity (Tonnes) **
0
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
No
Contained in Product
The amount of substance contained in product
Quantity (Tonnes) **
16.468
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes
Change in Method of Quantification
There has been a change in the method or combination of methods used to track and quantify the substance during the previous calendar year
Describe the changes **
Select the reason for change: **
Describe how the change impact tracking and quantification of the substance **
Incidents out of the normal course of events
There have been incidents out of the normal course of events that occurred at the facility during the previous calendar year that affected the results of tracking/quantification of this substance.
Explain how tracking and quantifications were affected **

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Significant Process Cha	nge	
☐ There has been a significant	t process change at the facility during	g the previous calendar year.
On-site Releases		
Click "Edit" to enter your reportable	values.In order to calculate totals, y	ou must click the "Validate" button.
Enter the values for rele	ases to air for the substa	nce
Releases to Air		
Category	Basis Of Estimate	Quantity (Tonnes)
Stack or Point Releases	E2 - Published Emission Factors	0.0001
Storage or Handling Releases	NA - Not Applicable	
Fugitive Releases	E2 - Published Emission Factors	0.0004
Spills	NA - Not Applicable	
Other Non-point Releases	NA - Not Applicable	
Total - Releases to Air		
0.0005		
Enter the values for rele	ases to water bodies	
Releases to Water Bodi		
Category	Basis Of Estimate	Quantity (Tonnes)
Direct Discharges	M1 - Continuous Emission Monitoring	0.0001
Spills	NA - Not Applicable	
Leaks	NA - Not Applicable	
Total - Releases to Water Bodies		
0.0001		

Assign releases to water bodies

Enter your total quantity released to all water bodies in the "Quantity" field under the release category. Then enter the specific quantity released to each water body in the "Quantity" field in each water body section. Your releases from all water bodies must equal the total quantity entered. When finished, click "Save and Return". To add a water body, click the "+" sign. You may leave a water body quantity blank if there are no releases to that water body. To remove a water body from the list, click the "Delete" icon to the right of the water body name.

Assign Releases to Water Bodies
Enter assigned values for
Direct Discharges
Basis Of Estimate
M1 - Continuous Emission Monitoring
Quantity (Tonnes)
0.0001
Water Bodies
Redstone River
Water Body
Redstone River
Quantity (Tonnes)
0.0001
Province
ON
Water Shed ID
Total Assigned (must equal total reported)
0.0001

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Releases to Land (the nature of "Other" releases must be specified in the

Enter the values for releases to land (surface and underground)

Comments)

Category	Ва	sis Of Estima	te	Quantity	y (Tonnes)
Spills	NA	NA - Not Applicable			
Laglia	NI	A Not Applicat	-1-		
Leaks	INA	NA - Not Applicable			
Other	NA - Not Applicable				
Total - Releases to Land					
Total Quantity Released					
0.0006					
Breakdown of Ann	nual Rele	ases			
☐ Distribute Equally					
Quarterly Breakdo	wn *				
Jan - Mar %	Apr - Jun %	6	Jul - Sep %		Oct - Dec %
25	25		25		25
Total %					
100					
Reasons for Chan	ges in Q	uantities R	eleased fron	n Prev	ious Year
Select the applicable reason					
Not applicable (first year r	eporting this	substance)			
Comments ? (On-Site Rele	eases) **				
Disposals					
Reasons Why Sub	ostance V	Was Dispo	sed		
Select one or more reason	ıs				
Production residues					

On-site Disposal (excluding Tailings and Waste Rock)

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button. **On-site Disposal** Category **Basis Of Estimate Quantity (Tonnes)** NA - Not Applicable Landfill NA - Not Applicable Land Treatment **Underground Injection** NA - Not Applicable Total - On-site Disposals Off-site Disposal (excluding Tailings and Waste Rock) Off-site Disposal Category **Basis Of Estimate Quantity (Tonnes)** Landfill NA - Not Applicable NA - Not Applicable Land Treatment **Underground Injection** NA - Not Applicable Storage NA - Not Applicable Total - Off-site Disposals Off-site Transfers (excluding Tailings and Waste Rock)

Off-site Transfers for Treatment Prior to Final Disposal

Category	Basis Of Estimate	Quantity (Tonnes)
Physical Treatment	NA - Not Applicable	
Chemical Treatment	NA - Not Applicable	

Biological Treatment	NA - Not Applicable	
Incineration / Thermal	NA - Not Applicable	
Municipal Sewage Treatment Plant	NA - Not Applicable	
Total - Treatment Prior to Final Disp	posal	
Total Quantity Disposed (All Media)		
Disposal of Tailings and		
On-site Disposal of Tailin	ngs and vvaste Rock Basis Of Estimate	Quantity (Tonnos)
Category	Dasis Of Estillate	Quantity (Tonnes)
Tailings Management	M3 - Source Testing	7.649
Waste Rock Management	NA - Not Applicable	
Total - On-site Disposal of Tailings	and Waste Rock	
7.649		
* Note that this is a Net Quantity, ac or waste rock management area.	ccounting for any additions or remova	als of the substance from the tailings
Off-site Disposal of Tailin	ngs and Waste Rock	
Category	Basis Of Estimate	Quantity (Tonnes)
Tailings Management	NA - Not Applicable	
Waste Rock Management	NA - Not Applicable	
Total - Off-site Disposal of Tailings	and Waste Rock	
Additional Information -	Tailings and Waste Rock	

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Concentration of the Substance in Tailings
Information on Sampling and Detection Limits for Tailings **
All samples above detection limit
Average Tailings Concentration (ppm)
66.0
Tailings Concentration – additional information
Concentration of the Substance in Waste Rock
Information on Sampling and Detection Limits for Waste Rock **
Average Waste Rock Concentration (ppm)
Waste Rock Concentration – additional information
Reasons for excluding quantities in tailings or waste rock
Reasons for Changes in Quantities Disposed from Previous Year
Select the applicable reason or reasons.
Not applicable (first year reporting this substance)
Comments? (Disposals)
Recycling
Reasons for Changes in Quantities Recycled from Previous Year
Select the applicable reason or reasons *
Not applicable (first year reporting this substance)
Comments? (Recycling)

NA - 10, Mercury (and its compounds)
NA - 10, Mercury (and its compounds)
Substance Reporting Status
Applicable Programs
NPRI - Does this substance meet the criteria specified in the Canada Gazette notice? Selecting "No" indicates voluntary reporting of this substance to the NPRI. *
Yes
ON MOE TRA - Does this substance meet the criteria specified in the Ontario Regulation 455/09 under the TRA? Selecting "No" indicates voluntary reporting of this substance to the ON MOE. *
Yes
Is this considered the first report for this substance to the ON MOE TRA? (Please select "Help" for further clarification) *
Yes
Would you like to create an exit record for this ON MOE TRA substance? *
No
Comments
General Information about the Substance
Releases and Transfers of the Substance
Releases and Transfers of the Substance
Was the substance released on-site? *
Yes
Disposals and Off-site Transfers for Recycling
Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal? *
No
Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? *
No
Was the substance transferred off-site for recycling? *
No

Nature of Activities *
Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of such activities.
Manufacture the Substance
Process the Substance
As a by-product
Otherwise Use of the Substance
TRA Quantifications
Enters the facility (Use), Creation, Contained in Product for ON MOE TRA
Enters the facility (Use)
The amount of substance that enters a process as the substance itself or part of another substance, rolled u
at the facility level.
Quantity (kg) **
8.441
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
Yes
Creation
The amount of substance that is created
Quantity (kg) **
0
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *

Contained in Product

The amount of substance contained in product

Quantity (kg) **

Yes

8.441			
	u want to use ranges for pub may contain the exact quant	lic reporting? If "No" is selected you tity provided. *	are indicating that any report to the
Yes			
Cha	nge in Method of Q	uantification	
	There has been a change in substance during the previous	n the method or combination of methous calendar year	ods used to track and quantify the
Descr	ibe the changes **		
Select	t the reason for change: **		
Descr	ibe how the change impact to	racking and quantification of the sub	stance **
Incid	dents out of the norr	mal course of events	
		out of the normal course of events the affected the results of tracking/quan	
Explai	in how tracking and quantification	ations were affected **	
Sigr	nificant Process Cha	inge	
		t process change at the facility durin	g the previous calendar year.
On-	site Releases		
		e values.In order to calculate totals,	you must click the "Validate" button.
Ente	er the values for rele	eases to air for the substa	ince
Rele	eases to Air		
Categ	jory	Basis Of Estimate	Quantity (kg)
Stack	or Point Releases	NA - Not Applicable	

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Fugitive Releases	E2 - Published Emission Factors	0.001
Spills	NA - Not Applicable	
Other Non-point Releases	NA - Not Applicable	
Total - Releases to Air		
0.001		
Enter the values for rele	ases to water bodies	
Releases to Water Bodie	es	
Category	Basis Of Estimate	Quantity (kg)
Direct Discharges	NA - Not Applicable	
Spills	NA - Not Applicable	
Leaks	NA - Not Applicable	
Total - Releases to Water Bodies		
Enter the values for rele	ases to land (surface and	l underground)
	ature of "Other" releases	,
Comments)		•
Category	Basis Of Estimate	Quantity (kg)
Spills	NA - Not Applicable	
Leaks	NA - Not Applicable	
Other	NA - Not Applicable	
Total - Releases to Land		

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Total Quantity Released			
0.001			
Breakdown of Anr	nual Releases		
☐ Distribute Equally			
Quarterly Breakdo	own *		
Jan - Mar %	Apr - Jun %	Jul - Sep %	Oct - Dec %
25	25	25	25
Total %			
100			
Reasons for Char	nges in Quantit	ties Released from	Previous Year
Select the applicable reas	on or reasons *		
Not applicable (first year r	eporting this substar	nce)	
Comments ? (On-Site Rel	eases) **		
Disposals			
Reasons for Char	nges in Quantit	ties Disposed from	Previous Year
Select the applicable reas	on or reasons.		
Not applicable (first year r	reporting this substar	nce)	
Comments? (Disposals)			
Recycling			
Reasons for Char	nges in Quanti	ties Recycled from	Previous Year
Select the applicable reas	on or reasons *		
Not applicable (first year r	eporting this substar	nce)	
Comments? (Recycling)			

ı	Post	Plan	Substance	Details
	เหลเ	1 16111	Oubsiding	DEIGNO

NA - 02, Arsenic (and its compounds)

NA - 02, Arsenic (and its compounds)

Objectives, Description and Targets

This information is read-only and is pulled directly from your most recent submitted Plan Summary. To make changes to the information on this screen, please update your plan summary and re-submit. For more details about updating the plan summary, please select "Help".

Objectives

Objectives in plan: *

The Objectives of the Plan are as follows:

•provide support for the Facility's position with respect to the Statement of Intent by providing an explanation of how the TRAs definition of the word "use", as applied to the Toxic Substance, renders it impossible to reduce the "use" of the Toxic Substance without reducing Facility production;

•provide the reader with an understanding of the nature of the Facility activity which the TRA has defined as a "use" of the Toxic Substance; and

•document how the Facility has fulfilled the applicable requirements under the TRA and O.Reg.455/09 with respect to the Toxic Substance.

Use Targets

What is the targeted reduction in use of the toxic substance at the

facility? *

No quantity target		Quantity	Unit
\boxtimes	or		

What is the targeted timeframe for this reduction? *

No timeline target		years	
\boxtimes	or		
Description of Target			

Creation Targets

facility? *						
No quantity target		Quantity			Unit	
×	or					
What is the t	argeted	timeframe t	for this i	eductio	n? *	
No timeline targe	t		years			
X		or				
Description of targ	ets					
Actions						
Additional Ad	ctions					
Were there any ad and/or creation of			plan taken	during the r	eporting per	riod to reduce the use
No						
Describe any addit objectives: **	tional action	ns that were take	n during the	e reporting	period to ac	hieve the plan's
Provide a public su	ummary of	the description of	f the additio	nal action t	aken: **	
Reductions of	due to a	dditional act	tions tal	ken **		
The amount of red that resulted due to	uction in <s o the additi</s 	strong>use <td>ng> of the s</td> <td>substance a</td> <td>t the facility</td> <th>during the reporting period</th>	ng> of the s	substance a	t the facility	during the reporting period
☐ No Amount						kg
The amount of red period that resulted				the substan	ice at the fa	cility during the reporting
☐ No Amount						kg

☐ No Amount	kg					
The amount of reduction in release to airstrong>release to airstrong>reporting period that resulted due to the additional actions.	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the additional actions.					
☐ No Amount	kg					
The amount of reduction in release to water reporting period that resulted due to the additional action						
☐ No Amount	kg					
The amount of reduction in release to land<td>trong> of the substance at the facility during the</td>	trong> of the substance at the facility during the					
☐ No Amount	kg					
The amount of reduction in the substance dis rocks) at the facility during the reporting period that res						
☐ No Amount	kg					
The amount of reduction in the substance dis rocks) at the facility during the reporting period that res						
☐ No Amount	kg					
The amount of reduction in the substance recreporting period that resulted due to the additional action	ycled off-site at the facility during the ons.					
☐ No Amount	kg					
Amendments						
Amendments						
Were any amendments made to the toxic substance re	eduction plan during the reporting period? *					
No						
Description any amendments that were made to the to period **	xic substance reduction plan during the reporting					

NA 02 Codmi	um (and its compo	ounds)
NA - 03, Cadmium (and	um (and its compodits compodits compounds)	Julius)
Ohiectives Desc	cription and Targe	 ts
This information is read changes to the informat	only and is pulled directly	from your most recent submitted Plan Summary. To make update your plan summary and re-submit. For more details
Objectives		
Objectives in plan: *		
explanation of how the impossible to reduce the	Facility's position with res TRAs definition of the wor e "use" of the Toxic Subst	pect to the Statement of Intent by providing an d "use", as applied to the Toxic Substance, renders it ance without reducing Facility production;
eprovide the reader with as a "use" of the Toxic		nature of the Facility activity which the TRA has defined
•document how the Fac respect to the Toxic Su		able requirements under the TRA and O.Reg.455/09 with
Use Targets		
What is the targe	eted reduction in u	se of the toxic substance at the
facility? *		
No quantity target	Quantity	Unit
⊠ or		
What is the targe	eted timeframe for	this reduction? *

No timeline target years

☑ or

Description of Target

Creation Targets

facility? *						
No quantity target		Quantity			Unit	
\boxtimes	or					
What is the	targeted	I timeframe	for this	reductio	n? *	
No timeline targe	et		years			
X		or				
Description of targ	gets					
Actions						
Additional A	ctions					
Were there any acand/or creation of			plan taken	during the I	reporting per	riod to reduce the use
No						
Describe any add objectives: **	itional actio	ns that were take	en during th	ne reporting	period to ac	hieve the plan's
Provide a public s	ummary of	the description of	f the additi	onal action	taken: **	
Reductions	due to a	dditional ac	tions ta	ken **		
The amount of recthat resulted due	duction in < to the addit	strong>use <td>ng> of the</td> <td>substance a</td> <td>at the facility</td> <th>during the reporting period</th>	ng> of the	substance a	at the facility	during the reporting period
☐ No Amount						kg
The amount of rec period that resulte				f the substar	nce at the fa	cility during the reporting
☐ No Amount						kg

☐ No Amount	kg
The amount of reduction in release to air<td>ong> of the substance at the facility during the ons.</td>	ong> of the substance at the facility during the ons.
☐ No Amount	kg
The amount of reduction in release to water<re>reporting period that resulted due to the additional action</re>	
☐ No Amount	kg
The amount of reduction in release to land<td>strong> of the substance at the facility during the</td>	strong> of the substance at the facility during the
☐ No Amount	kg
The amount of reduction in the substance disrocks) at the facility during the reporting period that res	
☐ No Amount	kg
The amount of reduction in the substance dis rocks) at the facility during the reporting period that res	
☐ No Amount	kg
The amount of reduction in the substance recreporting period that resulted due to the additional actions.	
☐ No Amount	kg
Amendments	
Amendments	
Were any amendments made to the toxic substance re	eduction plan during the reporting period? *
No	
Description any amendments that were made to the to period **	xic substance reduction plan during the reporting

NA OA Obra	onei une (en el ite es	
NA - 04, Chromium	omium (and its confounds)	ompounds)
Objectives, De	escription and Ta	argets
changes to the inform	•	rectly from your most recent submitted Plan Summary. To make lease update your plan summary and re-submit. For more details elect "Help".
Objectives		·
Objectives in plan: *		
 provide support for explanation of how t 	he TRAs definition of th	ith respect to the Statement of Intent by providing an e word "use", as applied to the Toxic Substance, renders it Substance without reducing Facility production;
as a "use" of the Tox	xic Substance; and Facility has fulfilled the a	of the nature of the Facility activity which the TRA has defined applicable requirements under the TRA and O.Reg.455/09 with
Use Targets		
•	rgeted reduction	in use of the toxic substance at the
No quantity target	Quantity	Unit
\boxtimes	or	
What is the tai	rgeted timeframe	e for this reduction? *
No timeline target	igotoa timonami	years
\boxtimes	or	
_	-1-	
Description of Targe	t	

Creation Targets

facility? *						
No quantity target		Quantity		Unit		
X	or					
What is the	targeted	d timeframe	for this reduct	ion? *		
No timeline targ	et		years			
\boxtimes		or				
Description of tar	gets					
Actions						
Additional A	ctions					
	dditional ac	tions outside the	plan taken during th	e reporting p	eriod to reduce the use	€
No						
Describe any add objectives: **	litional actio	ns that were take	n during the reportir	ng period to a	achieve the plan's	
Provide a public s	summary of	the description of	the additional actio	n taken: **		
Reductions	due to a	additional ac	tions taken **			
The amount of re that resulted due	duction in < to the addit	strong>use <td>ng> of the substanc</td> <th>e at the facili</th> <th>ty during the reporting</th> <td>period</td>	ng> of the substanc	e at the facili	ty during the reporting	period
☐ No Amount					tonnes	
		strong>creation <br e additional action		tance at the	facility during the repor	ting
☐ No Amount					tonnes	

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The amount of reduction in release to air<td></td><td>acility during the</td>		acility during the
☐ No Amount	ton	nes
The amount of reduction in release to water reporting period that resulted due to the additional action		e facility during the
☐ No Amount	ton	nes
The amount of reduction in release to land<td>trong> of the substance at the</td><td>facility during the</td>	trong> of the substance at the	facility during the
☐ No Amount	ton	nes
The amount of reduction in the substance disprocks) at the facility during the reporting period that res		
☐ No Amount	ton	nes
The amount of reduction in the substance disprocks) at the facility during the reporting period that res		
☐ No Amount	ton	nes
The amount of reduction in the substance recreporting period that resulted due to the additional action		acility during the
☐ No Amount	ton	nes
Amendments		
Amendments		
Were any amendments made to the toxic substance re	duction plan during the reporti	ng period? *
No		
Description any amendments that were made to the toperiod **	xic substance reduction plan d	uring the reporting

NA 05 Cobalt (an	d its compo	unde)	
NA - 05, Cobalt (an NA - 05, Cobalt (and its com	<u>-</u>	unus)	
Objectives, Descript	ion and Tar	gets	
•	n this screen, ple	ectly from your most recent submitted Plan Summar ase update your plan summary and re-submit. For ect "Help".	
Objectives			
Objectives in plan: *			
explanation of how the TRAs	ity's position with definition of the	n respect to the Statement of Intent by providing an word "use", as applied to the Toxic Substance, rendubstance without reducing Facility production;	ders it
•provide the reader with an uas a "use" of the Toxic Subst		the nature of the Facility activity which the TRA has	s defined
•document how the Facility herespect to the Toxic Substan		oplicable requirements under the TRA and O.Reg.4	55/09 with
Use Targets			
	reduction in	n use of the toxic substance at the	
facility? *			
No quantity target	Quantity	Unit	
⊠ or			
What is the targeted	timeframe	for this reduction? *	
No timeline target		years	
\boxtimes	or		
Description of Target			

Creation Targets

facility? *						
No quantity target		Quantity			Unit	
×	or					
What is the	targeted	timeframe	for this	s reducti	on? *	
No timeline targe	et		years			
\boxtimes		or				
Description of targ	gets					
Actions						
Additional A	ctions					
Were there any acand/or creation of	dditional ac the substa	tions outside the nce? *	plan take	n during the	reporting	period to reduce the use
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Describe any add objectives: **	itional actio	ns that were take	en during	the reporting	g period to	achieve the plan's
Provide a public s	ummary of	the description o	f the addi	tional actior	ı taken: **	
Reductions	due to a	additional ac	tions t	aken **		
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The amount of rec period that resulte				of the subst	ance at the	facility during the reporting
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The amount of reduction in release to air<td></td><td>e facility during the</td>		e facility during the
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The amount of reduction in release to water reporting period that resulted due to the additional action	strong> of the substance atons.	the facility during the
☐ No Amount		tonnes
The amount of reduction in release to land<td></td><td>the facility during the</td>		the facility during the
☐ No Amount		tonnes
The amount of reduction in the substance disprocks) at the facility during the reporting period that res	cosed on-site (incoulted due to the additional a	luding tailings and waste actions.
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The amount of reduction in the substance disprocks) at the facility during the reporting period that res		
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The amount of reduction in the substance rec reporting period that resulted due to the additional action	ycled off-site at thons.	ne facility during the
☐ No Amount		tonnes
Amendments		
Amendments		
Were any amendments made to the toxic substance re	eduction plan during the rep	orting period? *
No		
Description any amendments that were made to the to period **	xic substance reduction pla	n during the reporting

NA - 06 Con	per (and its comp	oounds)
NA - 06, Copper (ar	· · · · · · · · · · · · · · · · · · ·	ourius)
Objectives, De	escription and Ta	rgets
changes to the infor	•	ectly from your most recent submitted Plan Summary. To make ease update your plan summary and re-submit. For more detail ect "Help".
Objectives		
Objectives in plan: *		
 provide support for explanation of how 	the TRAs definition of the	h respect to the Statement of Intent by providing an eword "use", as applied to the Toxic Substance, renders it substance without reducing Facility production;
as a "use" of the To	xic Substance; and Facility has fulfilled the a	f the nature of the Facility activity which the TRA has defined pplicable requirements under the TRA and O.Reg.455/09 with
_	Substance.	
Use Targets What is the ta facility? *	rgeted reduction	in use of the toxic substance at the
No quantity target	Quantity	Unit
\boxtimes	or	
What is the ta	rgeted timeframe	for this reduction? *
No timeline target	9	years
\boxtimes	or	
Description of Targe	et	

Creation Targets

facility? *						
No quantity target		Quantity			Unit	
×	or					
What is the	targeted	timeframe	for this	s reducti	on? *	
No timeline targe	et		years			
\boxtimes		or				
Description of targ	gets					
Actions						
Additional A	ctions					
Were there any acand/or creation of	dditional ac the substa	tions outside the nce? *	plan take	n during the	reporting	period to reduce the use
No						
Describe any add objectives: **	itional actio	ns that were take	en during	the reporting	g period to	achieve the plan's
Provide a public s	ummary of	the description o	f the addi	tional actior	ı taken: **	
Reductions	due to a	additional ac	tions t	aken **		
The amount of recthat resulted due			ng> of the	e substance	at the faci	lity during the reporting period
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The amount of rec period that resulte				of the subst	ance at the	facility during the reporting
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☐ No Amount		tonnes
The amount of reduction in release to air<td></td><td>e facility during the</td>		e facility during the
☐ No Amount		tonnes
The amount of reduction in release to water reporting period that resulted due to the additional action	strong> of the substance atons.	the facility during the
☐ No Amount		tonnes
The amount of reduction in release to land<td></td><td>the facility during the</td>		the facility during the
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The amount of reduction in the substance disprocks) at the facility during the reporting period that res	cosed on-site (incoulted due to the additional a	luding tailings and waste actions.
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The amount of reduction in the substance disprocks) at the facility during the reporting period that res		
☐ No Amount		tonnes
The amount of reduction in the substance rec reporting period that resulted due to the additional action	ycled off-site at thons.	ne facility during the
☐ No Amount		tonnes
Amendments		
Amendments		
Were any amendments made to the toxic substance re	eduction plan during the rep	orting period? *
No		
Description any amendments that were made to the to period **	xic substance reduction pla	n during the reporting

NA - 08, Lead (and	d its compour	nds)	
NA - 08, Lead (and its com	•	140)	
Objectives, Descrip	otion and Targ	gets	
·	on this screen, plea	ase update your plan	ecent submitted Plan Summary. To make summary and re-submit. For more detail
Objectives			
Objectives in plan: *			
The Objectives of the Plan •provide support for the Face explanation of how the TRA impossible to reduce the "u	cility's position with As definition of the v	word "use", as applied	nent of Intent by providing an I to the Toxic Substance, renders it cing Facility production;
•provide the reader with ar as a "use" of the Toxic Sub		the nature of the Facil	lity activity which the TRA has defined
•document how the Facility respect to the Toxic Substa		plicable requirements	under the TRA and O.Reg.455/09 with
Use Targets			
What is the targete	d reduction ir	n use of the tox	ric substance at the
facility? *			
No quantity target	Quantity		Unit
⊠ or			
What is the targete	d timeframe f	for this reduction	on? *
No timeline target		years	
×	or		
Description of Target			

Creation Targets

facility? *		
No quantity target	Quantity	Unit
\boxtimes	or	
What is the ta	argeted timeframe fo	r this reduction? *
No timeline target	у	ears
\boxtimes	or	
Description of targe	ets	
Actions		
Additional Ac	tions	
Were there any add and/or creation of the	ditional actions outside the plant he substance? *	an taken during the reporting period to reduce the use
No		
Describe any additi objectives: **	onal actions that were taken	during the reporting period to achieve the plan's
Provide a public su	mmary of the description of the	ne additional action taken: **
Reductions d	ue to additional acti	ons taken **
The amount of reduthat resulted due to	uction in usethe additional actions.	> of the substance at the facility during the reporting period
☐ No Amount		kg
	uction in creation<td>rong> of the substance at the facility during the reporting</td>	rong> of the substance at the facility during the reporting
☐ No Amount		kg

☐ No Amount	kg				
The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the additional actions.					
☐ No Amount	kg				
The amount of reduction in release to water<re>reporting period that resulted due to the additional action</re>					
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The amount of reduction in release to land<td>strong> of the substance at the facility during the</td>	strong> of the substance at the facility during the				
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The amount of reduction in the substance disrocks) at the facility during the reporting period that res					
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The amount of reduction in the substance recreporting period that resulted due to the additional actions.					
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Amendments					
Amendments					
Were any amendments made to the toxic substance re	eduction plan during the reporting period? *				
No					
Description any amendments that were made to the to period **	xic substance reduction plan during the reporting				

NA OO Man	ganasa (and its com	anounds)
	ganese (and its come (and its come (and its compounds)	ipourius)
Objectives, De	escription and Targe	ets
changes to the inform		r from your most recent submitted Plan Summary. To make update your plan summary and re-submit. For more details 'Help".
Objectives		
Objectives in plan: *		
 provide support for explanation of how t 	he TRAs definition of the wo	spect to the Statement of Intent by providing an rd "use", as applied to the Toxic Substance, renders it cance without reducing Facility production;
•provide the reader as a "use" of the Tox		nature of the Facility activity which the TRA has defined
•document how the respect to the Toxic		cable requirements under the TRA and O.Reg.455/09 with
Use Targets		
What is the ta	rgeted reduction in (use of the toxic substance at the
facility? *		
No quantity target	Quantity	Unit
\boxtimes	or	
What is the ta	rgeted timeframe fo	this reduction? *

No timeline target years

☑ or

Description of Target

Creation Targets

facility? *						
No quantity target		Quantity			Unit	
×	or					
What is the	targeted	timeframe	for this	s reducti	on? *	
No timeline targe	et		years			
\boxtimes		or				
Description of targ	gets					
Actions						
Additional A	ctions					
Were there any acand/or creation of	dditional ac the substa	tions outside the nce? *	plan take	n during the	reporting	period to reduce the use
No						
Describe any add objectives: **	itional actio	ns that were take	en during	the reporting	g period to	achieve the plan's
Provide a public s	ummary of	the description o	f the addi	tional actior	ı taken: **	
Reductions	due to a	additional ac	tions t	aken **		
The amount of recthat resulted due			ng> of the	e substance	at the faci	lity during the reporting period
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The amount of rec period that resulte				of the subst	ance at the	facility during the reporting
☐ No Amount						tonnes

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The amount of reduction in release to air<td>ong> of the substance at tlons.</td><td>ne facility during the</td>	ong> of the substance at tlons.	ne facility during the
☐ No Amount		tonnes
The amount of reduction in release to water reporting period that resulted due to the additional action		at the facility during the
☐ No Amount		tonnes
The amount of reduction in release to land<td>trong> of the substance at</td><td>the facility during the</td>	trong> of the substance at	the facility during the
☐ No Amount		tonnes
The amount of reduction in the substance disprocks) at the facility during the reporting period that res	posed on-site (insulted due to the additional	cluding tailings and waste actions.
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The amount of reduction in the substance disrocks) at the facility during the reporting period that res		
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The amount of reduction in the substance recreporting period that resulted due to the additional action		the facility during the
☐ No Amount		tonnes
Amendments		
Amendments		
Were any amendments made to the toxic substance re	eduction plan during the re	porting period? *
No		
Description any amendments that were made to the to period **	xic substance reduction pl	an during the reporting

NA - 11, Nick	cel (and its com	pounds)	
NA - 11, Nickel (an	d its compounds)		
Objectives, D	escription and T	Targets	
	•	directly from your most recent submitted Plan Summary. To ma	
•		, please update your plan summary and re-submit. For more deta	ail
. •	plan summary, please	select пер.	
Objectives			
Objectives in plan: *	•		
 provide support for explanation of how 	the TRAs definition of	: with respect to the Statement of Intent by providing an the word "use", as applied to the Toxic Substance, renders it ic Substance without reducing Facility production;	
	with an understanding sxic Substance; and	ng of the nature of the Facility activity which the TRA has defined	
•document how the respect to the Toxic		ne applicable requirements under the TRA and O.Reg.455/09 with	1
Use Targets			
What is the ta	rgeted reductio	on in use of the toxic substance at the	
facility? *			
No quantity target	Quantity	Unit	
$oxed{ imes}$	or		
What is the ta	rgeted timefran	me for this reduction? *	
No timeline target	_	years	
\boxtimes	or		
Description of Targe	et		

Creation Targets

facility? *					
No quantity target		Quantity		Unit	
X	or				
What is the	targeted	timeframe t	for this reduction	on? *	
No timeline targe	et		years		
\boxtimes		or			
Description of targ	gets				
Actions					
Additional A	ctions				
	dditional ac	ions outside the page 7	plan taken during the	reporting pe	riod to reduce the use
No					
Describe any add objectives: **	itional actio	ns that were take	n during the reporting	period to ac	chieve the plan's
Provide a public s	summary of	the description of	the additional action	taken: **	
Reductions	due to a	dditional act	tions taken **		
The amount of recthat resulted due	duction in < to the additi	strong>use <td>ng> of the substance</td> <td>at the facility</td> <th>during the reporting period</th>	ng> of the substance	at the facility	during the reporting period
☐ No Amount					tonnes
The amount of rec period that resulte				ince at the fa	acility during the reporting
☐ No Amount					tonnes

☐ No Amount		tonnes
The amount of reduction in release to air<td>ong> of the substance at tlons.</td><td>ne facility during the</td>	ong> of the substance at tlons.	ne facility during the
☐ No Amount		tonnes
The amount of reduction in release to water reporting period that resulted due to the additional action		at the facility during the
☐ No Amount		tonnes
The amount of reduction in release to land<td>trong> of the substance at</td><td>the facility during the</td>	trong> of the substance at	the facility during the
☐ No Amount		tonnes
The amount of reduction in the substance disprocks) at the facility during the reporting period that res	posed on-site (insulted due to the additional	cluding tailings and waste actions.
☐ No Amount		tonnes
The amount of reduction in the substance disrocks) at the facility during the reporting period that res		
☐ No Amount		tonnes
The amount of reduction in the substance recreporting period that resulted due to the additional action		the facility during the
☐ No Amount		tonnes
Amendments		
Amendments		
Were any amendments made to the toxic substance re	eduction plan during the re	porting period? *
No		
Description any amendments that were made to the to period **	xic substance reduction pl	an during the reporting

NA - N	<i>I</i> //9	PM10 -	Particulate	Matter .	<= 10 N	Microns
	VI().).	1 IVI I (<i>)</i> -	1 (4) (1) (4) (4) (4)	IVICALLA	> — IV I	VII() () ()

NA - M09, PM10 - Particulate Matter <= 10 Microns

Objectives, Description and Targets

This information is read-only and is pulled directly from your most recent submitted Plan Summary. To make changes to the information on this screen, please update your plan summary and re-submit. For more details about updating the plan summary, please select "Help".

Objectives

Objectives in plan: *

The objectives of this Plan are as follows:

Provide the reader with information on measures currently in place at the Facility which control the "creation" and subsequent release of the Toxic Substance;

Provide support for the Facility's position with respect to the Statement of Intent of this Plan; and Document how the Facility has fulfilled the applicable requirements under the TRA and O.Reg.455/09 with respect to the Toxic Substance.

Use Targets

What is the targeted reduction in use of the toxic substance at the facility? *

No quantity target		Quantity	Unit
×	or		

What is the targeted timeframe for this reduction? *

Creation Targets

No quantity target	Quantity	Unit
-----------------------	----------	------

X	or							
What is the t	argeted	timeframe	for this r	eductio	n? *			
No timeline targe	t		years					
X		or						
Description of targ	ets							
Actions								
Additional Ad	ctions							
Were there any acand/or creation of	lditional acti the substan	ons outside the ce? *	plan taken d	during the re	eporting pe	riod to reduc	ce the use	
No								
Describe any addi objectives: **	tional action	s that were take	n during the	e reporting p	period to ac	hieve the pl	an's	
Provide a public so	ummary of t	he description o	f the addition	nal action ta	aken: **			
Reductions of	due to a	dditional ac	tions tak	en **				
The amount of red that resulted due to			ng> of the s	ubstance a	t the facility	during the	reporting period	
☐ No Amount						tonnes		
The amount of red period that resulte	luction in <s d due to the</s 	trong>creation< additional actio	/strong> of t ns.	he substan	ce at the fa	cility during	the reporting	
☐ No Amount						tonnes		
The amount of red reporting period th					uct <td>> at the faci</td> <td>lity during the</td> <td></td>	> at the faci	lity during the	
☐ No Amount						tonnes		

The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the additional actions.

☐ No Amount		tonnes
The amount of reduction in release to water reporting period that resulted due to the additional action	strong> of the substance a	at the facility during the
☐ No Amount		tonnes
The amount of reduction in release to land<td></td><td>the facility during the</td>		the facility during the
☐ No Amount		tonnes
The amount of reduction in the substance dis rocks) at the facility during the reporting period that res	posed on-site (insulted due to the additional	cluding tailings and waste actions.
☐ No Amount		tonnes
The amount of reduction in the substance dis rocks) at the facility during the reporting period that res	posed off-site (insulted due to the additional	cluding tailings and waste actions.
☐ No Amount		tonnes
The amount of reduction in the substance recreporting period that resulted due to the additional acti		the facility during the
☐ No Amount		tonnes
Amendments		
Amendments		
Were any amendments made to the toxic substance re	eduction plan during the re	porting period? *
No		
Description any amendments that were made to the to period **	xic substance reduction pl	an during the reporting
Provide a public summary of the description of any am reduction plan during the reporting period **	endments that were made	to the toxic substance

NA - M10, PM2.5 - Particulate Matter <= 2.5 Microns

NA - M10, PM2.5 - Particulate Matter <= 2.5 Microns

Obi	ectives	Descri	ption	and '	Targets

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Objectives in plan: *

The objectives of this Plan are as follows:

Provide the reader with information on measures currently in place at the Facility which control the "creation" and subsequent release of the Toxic Substance;

Provide support for the Facility's position with respect to the Statement of Intent of this Plan; and Document how the Facility has fulfilled the applicable requirements under the TRA and O.Reg.455/09 with respect to the Toxic Substance.

Use Targets

What is the targeted reduction in use of the toxic substance at the facility? *

facility? *			
No quantity target		Quantity	Unit
\boxtimes	or		
What is the	e target	ed timefrar	me for this reduction? *
No timeline tar	get		years
\boxtimes		or	
Description of T	arget		

Creation Targets

No quantity target		Quantity	Unit
X	or		

What is the targe	ted timefram	e for this reduct	ion? *	
No timeline target		years		
\boxtimes	or			
Description of targets				
Actions				
Additional Action	S			
Were there any additional and/or creation of the su		he plan taken during th	e reporting period to reduce the	use
No				
Describe any additional a objectives: **	actions that were to	aken during the reporti	ng period to achieve the plan's	
Provide a public summa	ry of the description	n of the additional actic	on taken: **	
Reductions due t	o additional	actions taken **		
The amount of reduction that resulted due to the a		strong> of the substanc	e at the facility during the reporti	ng period
☐ No Amount			tonnes	
The amount of reduction period that resulted due	in creation to the additional ac	on of the subs	stance at the facility during the re	porting
☐ No Amount			tonnes	
The amount of reduction reporting period that resu			roduct at the facility dur	ing the
☐ No Amount			tonnes	
The amount of reduction reporting period that resi	in releaseulted due to the ad	e to air of the ditional actions.	substance at the facility during the	he
□ No Amount			tonnes	

The amount of reduction in release to water reporting period that resulted due to the additional actions.					
☐ No Amount	tonnes				
The amount of reduction in release to land<td>trong> of the substance at the facility during the</td><td></td>	trong> of the substance at the facility during the				
☐ No Amount	tonnes				
The amount of reduction in the substance disprocks) at the facility during the reporting period that res					
☐ No Amount	tonnes				
The amount of reduction in the substance dis rocks) at the facility during the reporting period that res	posed off-site (including tailings and waste sulted due to the additional actions.				
☐ No Amount	tonnes				
The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.					
☐ No Amount	tonnes				
Amendments					
Amendments					
Were any amendments made to the toxic substance re	eduction plan during the reporting period? *				
No					
Description any amendments that were made to the to period **	xic substance reduction plan during the reporting				
Provide a public summary of the description of any am reduction plan during the reporting period **	endments that were made to the toxic substance				