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

☒ NPRI - National Pollutant Release Inventory

Partnering Programs

☒ 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

Contacts

Select the appropriate person from the drop-down menu for each contact.

Facility Contacts

Select the appropriate person from the drop-down menu for each contact.

Technical Contact: *

Russell Polack

Certifying Official (or authorized delegate): *

Mark Trevisiol

Highest Ranking Employee: *

Mark Trevisiol

Person who prepared the report: *

Russell Polack

Person who coordinated the preparation of the Toxics Reduction Plan (required after a plan summary has been submitted)

Russell Polack

Company Coordinator (optional)

Brian Kett

Public Contact (optional)

Brian Kett

Contractor Contact (optional)

Russell Polack

If you are an independent contractor or consultant, please enter your company name in the field below

Golder Associates Ltd.

Reasons for adding/removing substances

Substances added to the report

Please indicate the reasons why the following substances were added to the report:

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 first time the facility is reporting to the NPRI (under current or past ownership)? *

No

Is the facility controlled by another Canadian company or companies? *

No

Did the facility report under other environmental regulations or permits? *

No

Is the facility required to report one or more NPRI Part 4 substances (Criteria Air Contaminants)? *

Yes

If 'Yes' to reporting for one or more Part 4 substances:Was the facility shut down for more than one week during the year? **

No

Operating Schedule - Days of the Week **

Mon	Tue	Wed	Thu	Fri	Sat	Sun
☒	☒	☒	☒	☒	☒	☒

Operating Schedule - Hours **

Usual Number of Operating Hours per day	Usual Daily Start Time (24h) (hh:mm)
24	06:00

Shutdown Periods **

To report a shutdown period, click the "+" sign to the right side of the screen.

Empty

General Comments for Facility

Comments

Verify Facility Information

Company Information

Company Details

Company Legal Name: Liberty Mines Inc

Business Number	891339566

Mailing Address

Delivery Mode	Post Office Box
PO Box	5114
Rural Route Number	
Address Line 1	Stringers Road
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 prevention 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) *

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

Quantity (Tonnes) **

3.388

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.

Enter the values for releases to air for the substance

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

Spills	NA - Not Applicable	
Other Non-point Releases	NA - Not Applicable	
Road Dust	E2 - Published Emission Factors	2.3642

Total - Releases to Air

3.3879

Breakdown of Annual 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 %
8.34	8.33	8.33	8.34

Total %

100.00

Reasons for Changes in Quantities Released from Previous Year

Select the applicable reason or reasons *

Changes in production levels

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	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

Total Releases to Water

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

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

Increase in production levels

(please specify)

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

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

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) **

0.000

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: **

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.

Enter the values for releases to air for the substance

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 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 %
8.34	8.33	8.33	8.34

Total %

100.00

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 Change

Reasons for Change

Reason(s) for Change

No reasons - quantities approximately the same

(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
0.3866	0.3913	2013	-0.0047	-1.20

Total Releases to Water

Total Releases to Water

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

Total Releases to Land

Total Releases 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

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) **

3559.534

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.

Enter the values for releases to air for the substance

Releases to Air

Category	Basis Of Estimate	Quantity (kg)
Stack or Point Releases	E2 - Published Emission Factors	0.0141
Storage or Handling Releases	NA - Not Applicable	
Fugitive Releases	E2 - Published Emission Factors	0.0567
Spills	NA - Not Applicable	
Other Non-point Releases	NA - Not Applicable	

Total - Releases to Air

0.0708

Enter the values for releases to water bodies

Releases to Water Bodies

Category	Basis Of Estimate	Quantity (kg)
Direct Discharges	M1 - Continuous Emission Monitoring	0.0269
Spills	NA - Not Applicable	
Leaks	NA - Not Applicable	

Total - Releases to Water Bodies

0.0269

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)

0.0269

Water Bodies

Redstone River

Water Body

Redstone River

Quantity (kg)

0.0269

Province

ON

Water Shed ID

Total Assigned (must equal total reported)

0.0269

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 (kg)
Spills	NA - Not Applicable	

Leaks	NA - Not Applicable	
Other	NA - Not Applicable	

Total - Releases to Land

Total Quantity Released

0.0977

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 from Previous Year

Select the applicable reason or reasons *

Changes in production levels

Comments ? (On-Site Releases) **

The 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

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 (excluding 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 (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 Plant	NA - Not Applicable	

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

Category	Basis Of Estimate	Quantity (kg)
Tailings Management	M3 - Source Testing	57.948
Waste Rock Management	NA - Not Applicable	

Total - On-site Disposal of Tailings and Waste Rock

57.948

* 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)

0.5

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)

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
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 Product

Contained in Product

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 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 (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change
0.0708	0.0030	2012	0.0678	2260.0

Total Releases to Water

Total Releases 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 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.

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 treatment Prior to Final Disposal

Total Off-site transfer for treatment Prior to Final Disposal

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

Total On-site Disposal of Tailings and Waste Rock

Total On-site Disposal of Tailings and Waste Rock

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 Disposal of Tailings and Waste Rock

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 Change

Increase in production levels

(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

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) **

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 amount of substance contained in product

Quantity (kg) **

1171.067

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.

Enter the values for releases to air for the substance

Releases to Air

Category	Basis Of Estimate	Quantity (kg)
Stack 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 releases to water bodies

Releases to Water Bodies

Category	Basis Of Estimate	Quantity (kg)
Direct Discharges	M1 - Continuous Emission Monitoring	0.003
Spills	NA - Not Applicable	
Leaks	NA - Not Applicable	

Total - Releases to Water Bodies

0.003

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

Water Bodies

Redstone River

Water Body

Redstone River

Quantity (kg)

0.003

Province

ON

Water Shed ID

Total Assigned (must equal total reported)

0.003

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 (kg)
Spills	NA - Not Applicable	
Leaks	NA - Not Applicable	
Other	NA - Not Applicable	

Total - Releases to Land

Total Quantity Released

0.0266

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 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

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 (excluding 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 (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 Plant	NA - Not Applicable	

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

Category	Basis Of Estimate	Quantity (kg)
Tailings Management	M3 - Source Testing	34.769
Waste Rock Management	NA - Not Applicable	

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

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)

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 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.

Enters the facility (Use)

Enters the facility (Use)

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 in Product

Contained in 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 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 (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	0.0003	2012	0.0027	900

Total Releases to Land

Total Releases to Land

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 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 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 treatment Prior to Final Disposal

Total Off-site transfer for treatment Prior to Final Disposal

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

Total On-site Disposal of Tailings and Waste Rock

Total On-site Disposal of Tailings 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 Disposal of Tailings and Waste Rock

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	2013	0	

Reasons for Change

Reasons for Change

Reason(s) for Change

Increase in production levels

(please specify)

NA - 04, Chromium (and its compounds)

NA - 04, Chromium (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

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

☐ 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.

Enter the values for releases to air for the substance

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	0.0006
Spills	NA - Not Applicable	

Other Non-point Releases	NA - Not Applicable	

Total - Releases to Air

0.0007

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)
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

☐ Distribute Equally

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

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 (excluding Tailings and Waste 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 Plant	NA - Not Applicable	

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

Category	Basis Of Estimate	Quantity (Tonnes)
Tailings Management	M3 - Source Testing	12.749

Waste Rock Management	NA - Not Applicable	

Total - On-site Disposal of Tailings and Waste Rock

12.749

* 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)

110.0

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)

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
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 Product

Contained in Product

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
23.426	0	2012	23.426	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 Air

Total Releases to Air

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0.0007	0.0005	2012	0.0002	40.0

Total Releases to Water

Total Releases to Water

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

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

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

Total Off-site Disposals

Total Off-site Disposals

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

Total Off-site transfer for treatment Prior to Final Disposal

Total Off-site transfer for treatment Prior to Final Disposal

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

0	0	2012	0	

Total On-site Disposal of Tailings and Waste Rock

Total On-site Disposal of Tailings and Waste 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 Tailings and Waste Rock

Total Off-site Disposal of Tailings and Waste Rock

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

Decrease in production levels

(please specify)

NA - 05, Cobalt (and its compounds)

NA - 05, Cobalt (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

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 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.

Enter the values for releases to air for the substance

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	0.0006
Spills	NA - Not Applicable	
Other Non-point Releases	NA - Not Applicable	

Total - Releases to Air

0.0007

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)
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

☐ Distribute Equally

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) **

The 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

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 (excluding Tailings and Waste 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 Plant	NA - Not Applicable	

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

Category	Basis Of Estimate	Quantity (Tonnes)
Tailings Management	M3 - Source Testing	1.507
Waste Rock Management	NA - Not Applicable	

Total - On-site Disposal of Tailings and Waste Rock

1.507

* 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)

13.0

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)

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
36.176	11.663	2012	24.513	210.18

Creation

Creation

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0.00	0	2012	0.00	

Contained in Product

Contained in Product

Quantity (Tonnes)	Last Reported	Reporting Period	Change	% Change

	Quantity (Tonnes) *	of Last Reported Quantity *		
34.668	7.1239	2012	27.5441	386.64

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
0.0007	0	2012	0.0007	100

Total Releases to Water

Total Releases to Water

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

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

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

Total Off-site Disposals

Total Off-site Disposals

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

Total Off-site transfer for treatment Prior to Final Disposal

Total Off-site transfer for treatment Prior to Final Disposal

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

Total On-site Disposal of Tailings and Waste Rock

Total On-site Disposal of Tailings and Waste Rock

Quantity (Tonnes)	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 Tailings and Waste Rock

Total Off-site Disposal of Tailings and Waste Rock

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)

NA - 06, Copper (and its compounds)

NA - 06, Copper (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

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 at the facility level.

Quantity (Tonnes) **

24611.603

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) **

24584.465

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.

Enter the values for releases to air for the substance

Releases to Air

Category	Basis Of Estimate	Quantity (Tonnes)
Stack or Point Releases	E2 - Published Emission Factors	0.0959
Storage or Handling Releases	NA - Not Applicable	
Fugitive Releases	E2 - Published Emission Factors	0.3857
Spills	NA - Not Applicable	
Other Non-point Releases	NA - Not Applicable	

Total - Releases to Air

0.4816

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)
Spills	NA - Not Applicable	
Leaks	NA - Not Applicable	
Other	NA - Not Applicable	

Total - Releases to Land

Total Quantity Released

0.4816

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 from Previous Year

Select the applicable reason or reasons *

Changes in production levels

Comments ? (On-Site Releases) **

The 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

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 (excluding Tailings and Waste 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 Plant	NA - Not Applicable	

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

Category	Basis Of Estimate	Quantity (Tonnes)
Tailings Management	M3 - Source Testing	26.656
Waste Rock Management	NA - Not Applicable	

Total - On-site Disposal of Tailings 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 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)

230.0

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 (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 Product

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 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
0.4816	0.0001	2012	0.4815	481500

Total Releases to Water

Total Releases to Water

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0.0001	2012	-0.0001	-100

Total Releases to Land

Total Releases 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

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

Total Off-site Disposals

Total Off-site Disposals

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

Total Off-site transfer for treatment Prior to Final Disposal

Total Off-site transfer for treatment Prior to Final Disposal

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

Total On-site Disposal of Tailings and Waste Rock

Total On-site Disposal of Tailings and Waste Rock

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
26.656	9.6169	2012	17.0391	177.18

Total Off-site Disposal of Tailings and Waste Rock

Total Off-site Disposal of Tailings and Waste Rock

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

Increase in production levels

(please specify)

NA - 08, Lead (and its compounds)

NA - 08, Lead (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) **

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 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.

Enter the values for releases to air for the substance

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 releases to water bodies

Releases to Water Bodies

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

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)

0.0067

Water Bodies

Redstone River

Water Body

Redstone River

Quantity (kg)

0.0067

Province

ON

Water Shed ID

Total Assigned (must equal total reported)

0.0067

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 (kg)
Spills	NA - Not Applicable	
Leaks	NA - Not Applicable	
Other	NA - Not Applicable	

Total - Releases to Land

Total Quantity Released

1.4226

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 from Previous Year

Select the applicable reason or reasons *

Changes in production levels

Comments ? (On-Site Releases) **

The 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

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 (excluding 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 (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 Plant	NA - Not Applicable	

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

Category	Basis Of Estimate	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 Air

Total Releases to Air

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.

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 treatment Prior to Final Disposal

Total Off-site transfer for treatment Prior to Final Disposal

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

Total On-site Disposal of Tailings and Waste Rock

Total On-site Disposal of Tailings and Waste Rock

Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change
7880.928	401.55	2012	7479.378	1862.63

Total Off-site Disposal of Tailings and Waste Rock

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 Change

Increase in production levels

(please specify)

NA - 09, Manganese (and its compounds)

NA - 09, Manganese (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

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 **

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.

Enter the values for releases to air for the substance

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 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)
Spills	NA - Not Applicable	
Leaks	NA - Not Applicable	
Other	NA - Not Applicable	

Total - Releases to Land

Total Quantity Released

0.0005

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 from Previous Year

Select the applicable reason or reasons *

Changes in production levels

Comments ? (On-Site Releases) **

The 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

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 (excluding Tailings and Waste 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 Plant	NA - Not Applicable	

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

Category	Basis Of Estimate	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

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
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

Decrease 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
0.0005	0.0006	2012	-0.0001	-16.67

Total Releases to Water

Total Releases to Water

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

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.

Total On-site Disposals

Total On-site 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 Disposals

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

Total Off-site transfer for treatment Prior to Final Disposal

Total Off-site transfer for treatment Prior to Final Disposal

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

Total On-site Disposal of Tailings and Waste Rock

Total On-site Disposal of Tailings and Waste Rock

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
61.425	95.2960	2012	-33.8710	-35.54

Total Off-site Disposal of Tailings and Waste Rock

Total Off-site Disposal of Tailings and Waste Rock

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

Decrease in production levels

(please specify)

NA - 11, Nickel (and its compounds)

NA - 11, Nickel (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

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 at the facility level.

Quantity (Tonnes) **

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 **

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.

Enter the values for releases to air for the substance

Releases to Air

Category	Basis Of Estimate	Quantity (Tonnes)
Stack or Point Releases	E2 - Published Emission Factors	0.0076
Storage or Handling Releases	NA - Not Applicable	
Fugitive Releases	E1 - Site Specific Emission Factors	0.0304
Spills	NA - Not Applicable	
Other Non-point Releases	NA - Not Applicable	

Total - Releases to Air

0.0380

Enter the values for releases to water bodies

Releases to Water Bodies

Category	Basis Of Estimate	Quantity (Tonnes)
Direct Discharges	M1 - Continuous Emission Monitoring	0.0002
Spills	NA - Not Applicable	

Leaks	NA - Not Applicable	

Total - Releases to Water Bodies

0.0002

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)

0.0002

Water Bodies

Redstone River

Water Body

Redstone River

Quantity (Tonnes)

0.0002

Province

ON

Water Shed ID

Total Assigned (must equal total reported)

0.0002

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	

Total - Releases to Land

Total Quantity Released

0.0382

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 from Previous Year

Select the applicable reason or reasons *

Changes in production levels

Comments ? (On-Site Releases) **

The 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

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 (excluding Tailings and Waste 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 Plant	NA - Not Applicable	

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

Category	Basis Of Estimate	Quantity (Tonnes)
Tailings Management	M3 - Source Testing	44.040
Waste Rock Management	NA - Not Applicable	

Total - On-site Disposal of Tailings and Waste Rock

44.040

* 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)

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.

Enters the facility (Use)

Enters the facility (Use)

Quantity (Tonnes)	Last Reported 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 Product

Contained in Product

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
1897.356	152.7635	2012	1744.5925	1142.02

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
0.0380	0.0025	2012	0.0355	1420.0

Total Releases to Water

Total Releases 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 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

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

Total Off-site Disposals

Total Off-site Disposals

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

Total Off-site transfer for treatment Prior to Final Disposal

Total Off-site transfer for treatment Prior to Final Disposal

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

Total On-site Disposal of Tailings and Waste Rock

Total On-site Disposal of Tailings and Waste Rock

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
44.040	222.9644	2012	-178.9244	-80.25

Total Off-site Disposal of Tailings and Waste Rock

Total Off-site Disposal of Tailings and Waste Rock

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)

NA - 12, Selenium (and its compounds)

NA - 12, Selenium (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? *

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 **

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

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 releases to water bodies

Releases to Water Bodies

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 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 (kg)
Spills	NA - Not Applicable	
Leaks	NA - Not Applicable	
Other	NA - Not Applicable	

Total - Releases to Land

Total Quantity Released

0.1888

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 from Previous Year

Select the applicable reason or reasons *

Not applicable (first year reporting this substance)

Comments ? (On-Site Releases) **

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

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 (excluding 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 (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 Plant	NA - Not Applicable	

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

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, 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)

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

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 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.

Enter the values for releases to air for the 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 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)
Spills	NA - Not Applicable	
Leaks	NA - Not Applicable	
Other	NA - Not Applicable	

Total - Releases to Land

Total Quantity Released

0.0002

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 from Previous Year

Select the applicable reason or reasons *

Changes in production levels

Comments ? (On-Site Releases) **

The facility was on care and maintenance in 2013.

Disposals

Reasons for Changes in Quantities Disposed from Previous Year

Select the applicable reason or reasons.

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

Comments? (Disposals)

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)

7440-62-2, Vanadium (and its compounds)

7440-62-2, Vanadium (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? *

No

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) **

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

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

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

Select the applicable reason or reasons *

Not applicable (first year reporting this substance)

Comments ? (On-Site Releases) **

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

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 (excluding Tailings and Waste 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 Plant	NA - Not Applicable	

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

Category	Basis Of Estimate	Quantity (Tonnes)
Tailings Management	M3 - Source Testing	10.778
Waste Rock Management	NA - Not Applicable	

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 Substance in Tailings

Information on Sampling and Detection Limits for Tailings **

All samples above detection limit

Average Tailings Concentration (ppm)

93.0

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 - 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 **

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

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 releases to water bodies

Releases to Water Bodies

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

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	

Total - Releases to Land

Total Quantity Released

0.0006

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 from Previous Year

Select the applicable reason or reasons *

Not applicable (first year reporting this substance)

Comments ? (On-Site Releases) **

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

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 (excluding Tailings and Waste 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 Plant	NA - Not Applicable	

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

Category	Basis Of Estimate	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, 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)

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 up 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. *

Yes

Contained in Product

The amount of substance contained in product

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

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.

Enter the values for releases to air for the substance

Releases to Air

Category	Basis Of Estimate	Quantity (kg)
Stack or Point Releases	NA - Not Applicable	
Storage or Handling Releases	NA - Not Applicable	

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 releases to water bodies

Releases to Water Bodies

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 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 (kg)
Spills	NA - Not Applicable	
Leaks	NA - Not Applicable	
Other	NA - Not Applicable	

Total - Releases to Land

Total Quantity Released

0.001

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 from Previous Year

Select the applicable reason or reasons *

Not applicable (first year reporting this substance)

Comments ? (On-Site Releases) **

Disposals

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)

Post Plan Substance Details

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
☒	or		

What is the targeted timeframe for this reduction? *

No timeline target		years
☒	or	

Description of Target

Creation Targets

What is the targeted reduction in creation 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
☒	or	

Description of targets

Actions

Additional Actions

Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance? *

No

Describe any additional actions that were taken during the reporting period to achieve the plan's objectives: **

Provide a public summary of the description of the additional action taken: **

Reductions due to additional actions taken **

The amount of reduction in use 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 creation 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 the substance contained in product at the facility during the reporting period that resulted due to the additional actions.

☐ 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 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 land of the substance at the facility during the reporting period that resulted due to additional actions.

☐ No Amount kg

The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.

☐ No Amount kg

The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.

☐ No Amount kg

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 kg

Amendments

Amendments

Were any amendments made to the toxic substance reduction plan during the reporting period? *

No

Description any amendments that were made to the toxic substance reduction plan during the reporting period **

Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period **

NA - 03, Cadmium (and its compounds)

NA - 03, Cadmium (and its compounds)

Objectives, Description and Targets

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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
☒	or		

What is the targeted timeframe for this reduction? *

No timeline target		years
☒	or	

Description of Target

Creation Targets

What is the targeted reduction in creation 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
☒	or	

Description of targets

Actions

Additional Actions

Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance? *

No

Describe any additional actions that were taken during the reporting period to achieve the plan's objectives: **

Provide a public summary of the description of the additional action taken: **

Reductions due to additional actions taken **

The amount of reduction in use 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 creation 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 the substance contained in product at the facility during the reporting period that resulted due to the additional actions.

☐ 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 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 land of the substance at the facility during the reporting period that resulted due to additional actions.

☐ No Amount kg

The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.

☐ No Amount kg

The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.

☐ No Amount kg

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 kg

Amendments

Amendments

Were any amendments made to the toxic substance reduction plan during the reporting period? *

No

Description any amendments that were made to the toxic substance reduction plan during the reporting period **

Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period **

NA - 04, Chromium (and its compounds)

NA - 04, Chromium (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
☒	or		

What is the targeted timeframe for this reduction? *

No timeline target		years
☒	or	

Description of Target

Creation Targets

What is the targeted reduction in creation 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
☒	or	

Description of targets

Actions

Additional Actions

Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance? *

No

Describe any additional actions that were taken during the reporting period to achieve the plan's objectives: **

Provide a public summary of the description of the additional action taken: **

Reductions due to additional actions taken **

The amount of reduction in use 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 creation 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 the substance contained in product at the facility during the reporting period that resulted due to the additional actions.

☐ 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 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 land of the substance at the facility during the reporting period that resulted due to additional actions.

☐ No Amount tonnes

The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.

☐ No Amount tonnes

The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted 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 reduction plan during the reporting period? *

No

Description any amendments that were made to the toxic substance reduction plan during the reporting period **

Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period **

NA - 05, Cobalt (and its compounds)

NA - 05, Cobalt (and its compounds)

Objectives, Description and Targets

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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
☒	or		

What is the targeted timeframe for this reduction? *

No timeline target		years
☒	or	

Description of Target

Creation Targets

What is the targeted reduction in creation 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
☒	or	

Description of targets

Actions

Additional Actions

Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance? *

No

Describe any additional actions that were taken during the reporting period to achieve the plan's objectives: **

Provide a public summary of the description of the additional action taken: **

Reductions due to additional actions taken **

The amount of reduction in use 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 creation 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 the substance contained in product at the facility during the reporting period that resulted due to the additional actions.

☐ 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 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 land of the substance at the facility during the reporting period that resulted due to additional actions.

☐ No Amount tonnes

The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.

☐ No Amount tonnes

The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted 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 reduction plan during the reporting period? *

No

Description any amendments that were made to the toxic substance reduction plan during the reporting period **

Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period **

NA - 06, Copper (and its compounds)

NA - 06, Copper (and its compounds)

Objectives, Description and Targets

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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
☒	or		

What is the targeted timeframe for this reduction? *

No timeline target		years
☒	or	

Description of Target

Creation Targets

What is the targeted reduction in creation 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
☒	or	

Description of targets

Actions

Additional Actions

Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance? *

No

Describe any additional actions that were taken during the reporting period to achieve the plan's objectives: **

Provide a public summary of the description of the additional action taken: **

Reductions due to additional actions taken **

The amount of reduction in use 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 creation 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 the substance contained in product at the facility during the reporting period that resulted due to the additional actions.

☐ 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 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 land of the substance at the facility during the reporting period that resulted due to additional actions.

☐ No Amount tonnes

The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.

☐ No Amount tonnes

The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted 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 reduction plan during the reporting period? *

No

Description any amendments that were made to the toxic substance reduction plan during the reporting period **

Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period **

NA - 08, Lead (and its compounds)

NA - 08, Lead (and its compounds)

Objectives, Description and Targets

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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
☒	or		

What is the targeted timeframe for this reduction? *

No timeline target		years
☒	or	

Description of Target

Creation Targets

What is the targeted reduction in creation 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
☒	or	

Description of targets

Actions

Additional Actions

Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance? *

No

Describe any additional actions that were taken during the reporting period to achieve the plan's objectives: **

Provide a public summary of the description of the additional action taken: **

Reductions due to additional actions taken **

The amount of reduction in use 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 creation 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 the substance contained in product at the facility during the reporting period that resulted due to the additional actions.

☐ 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 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 land of the substance at the facility during the reporting period that resulted due to additional actions.

☐ No Amount kg

The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.

☐ No Amount kg

The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.

☐ No Amount kg

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 kg

Amendments

Amendments

Were any amendments made to the toxic substance reduction plan during the reporting period? *

No

Description any amendments that were made to the toxic substance reduction plan during the reporting period **

Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period **

NA - 09, Manganese (and its compounds)

NA - 09, Manganese (and its compounds)

Objectives, Description and Targets

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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
☒	or		

What is the targeted timeframe for this reduction? *

No timeline target		years
☒	or	

Description of Target

Creation Targets

What is the targeted reduction in creation 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
☒	or	

Description of targets

Actions

Additional Actions

Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance? *

No

Describe any additional actions that were taken during the reporting period to achieve the plan's objectives: **

Provide a public summary of the description of the additional action taken: **

Reductions due to additional actions taken **

The amount of reduction in use 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 creation 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 the substance contained in product at the facility during the reporting period that resulted due to the additional actions.

☐ 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 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 land of the substance at the facility during the reporting period that resulted due to additional actions.

☐ No Amount tonnes

The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.

☐ No Amount tonnes

The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted 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 reduction plan during the reporting period? *

No

Description any amendments that were made to the toxic substance reduction plan during the reporting period **

Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period **

NA - 11, Nickel (and its compounds)

NA - 11, Nickel (and its compounds)

Objectives, Description and Targets

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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
☒	or		

What is the targeted timeframe for this reduction? *

No timeline target		years
☒	or	

Description of Target

Creation Targets

What is the targeted reduction in creation 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
☒	or	

Description of targets

Actions

Additional Actions

Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance? *

No

Describe any additional actions that were taken during the reporting period to achieve the plan's objectives: **

Provide a public summary of the description of the additional action taken: **

Reductions due to additional actions taken **

The amount of reduction in use 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 creation 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 the substance contained in product at the facility during the reporting period that resulted due to the additional actions.

☐ 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 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 land of the substance at the facility during the reporting period that resulted due to additional actions.

☐ No Amount tonnes

The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.

☐ No Amount tonnes

The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted 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 reduction plan during the reporting period? *

No

Description any amendments that were made to the toxic substance reduction plan during the reporting period **

Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period **

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

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

Objectives, Description and Targets

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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? *

No timeline target		years
☒	or	

Description of Target

Creation Targets

What is the targeted reduction in creation 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**

☒ or

Description of targets

Actions

Additional Actions

Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance? *

No

Describe any additional actions that were taken during the reporting period to achieve the plan's objectives: **

Provide a public summary of the description of the additional action taken: **

Reductions due to additional actions taken **

The amount of reduction in use 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 creation 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 the substance contained in product at the facility during the reporting period that resulted due to the additional actions.

☐ 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 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 land of the substance at the facility during the reporting period that resulted due to additional actions.

☐ No Amount tonnes

The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.

☐ No Amount tonnes

The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted 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 reduction plan during the reporting period? *

No

Description any amendments that were made to the toxic substance reduction plan during the reporting period **

Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period **

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

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

Objectives, Description and Targets

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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? *

No timeline target		years
☒	or	

Description of Target

Creation Targets

What is the targeted reduction in creation 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
☒	or	

Description of targets

Actions

Additional Actions

Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance? *

No

Describe any additional actions that were taken during the reporting period to achieve the plan's objectives: **

Provide a public summary of the description of the additional action taken: **

Reductions due to additional actions taken **

The amount of reduction in use 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 creation 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 the substance contained in product at the facility during the reporting period that resulted due to the additional actions.

☐ 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 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 land of the substance at the facility during the reporting period that resulted due to additional actions.

☐ No Amount tonnes

The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.

☐ No Amount tonnes

The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted 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 reduction plan during the reporting period? *

No

Description any amendments that were made to the toxic substance reduction plan during the reporting period **

Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period **