Report Preview

Company Details

Name

Viasystems Toronto, Inc.

Address

8150 Sheppard Avenue East, Toronto (Ontario)

Report Details

Report Status

Update 1 - Submitted

2013

Report Type

Inventory

Facility Name

Sheppard Facility

Facility Address

8150 Sheppard Avenue East, Toronto (Ontario)

Update Comments

resolving highest ranking employee warning message and UTM

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: *

Mark Scruton

Certifying Official (or authorized delegate): *

Mark Scruton

Highest Ranking Employee: *

Jon Pereira

Person who prepared the report: *

Mark Scruton

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

Mark Scruton

Company Coordinator (optional)

Mark Scruton

Public Contact (optional)

Mark Scruton

Contractor Contact (optional)

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

Employees and Activities

Employees

Number of Employees *

485

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? *

Yes

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

No

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

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)

Shutdown Periods **

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

General Comments for Facility

Comments

Verify Facility Information

Company Information

Company Details

Company Legal Name	Viasystems Toronto, Inc.
Business Number	122456379

Mailing Address

Delivery Mode	General Delivery
PO Box	
Rural Route Number	
Address Line 1	8150 Sheppard Avenue East
City *	Toronto
Province/Territory **	Ontario
Postal Code: **	M1B5K2
Country *	Canada

Facility Information

Facility *	Sheppard Facility
NAICS Code *	334410

NPRI ID *	11606 (Assigned by Environment Canada)

Facility Physical Address

Address Line 1	8150 Sheppard Avenue East
City	Toronto
Province/Territory	Ontario
Postal Code	M1B5K2
Country	Canada
Additional Information	
Land Survey Description	
National Topographical Description	

Geographical Address

Latitude **	43.80339
Longitude **	-79.19711
UTM Zone **	17
UTM Easting **	645022
UTM Northing **	4851615

Facility Contacts

Contact Types

Technical Contact

First Name: *	Mark
Last Name: *	Scruton
Position: *	Dir. of EHSS
Telephone: *	4162082127
Ext	

Fax	4162082154
Email: *	Mark.Scruton@viasystems.com

Mailing Address

Delivery Mode	
PO Box	
Rural Route Number	
Address Line 1	8150 Sheppard Avenue East
City *	Toronto
Province/Territory **	Ontario
Postal Code: **	M1B5K2
Country *	Canada

Certifying Official

First Name: *	Mark
Last Name: *	Scruton
Position: *	Dir. of EHSS
Telephone: *	4162082127
Ext	
Fax	4162082154
Email: *	Mark.Scruton@viasystems.com

Mailing Address

Delivery Mode	
PO Box	
Rural Route Number	

Address Line 1	8150 Sheppard Avenue East
City *	Toronto
Province/Territory **	Ontario
Postal Code: **	M1B5K2
Country *	Canada

Company Coordinator

First Name: *	Mark
Last Name: *	Scruton
Position: *	Dir. of EHSS
Telephone: *	4162082127
Ext	
Fax	4162082154
Email: *	Mark.Scruton@viasystems.com

Mailing Address

Delivery Mode	
PO Box	
Rural Route Number	
Address Line 1	8150 Sheppard Avenue East
City *	Toronto
Province/Territory **	Ontario
Postal Code: **	M1B5K2
Country *	Canada

Highest Ranking Employee

First Name: *	Jon
Last Name: *	Pereira
Position: *	General Manager
Telephone: *	4162082100
Ext	2206
Fax	
Email: *	Jon.Pereira@viasystems.com

Mailing Address

Delivery Mode	General Delivery
PO Box	
Rural Route Number	
Address Line 1	8150 Sheppard Avenue East
City *	Toronto
Province/Territory **	Ontario
Postal Code: **	M1B 5K2
Country *	Canada

Person who prepared the report

First Name: *	Mark
Last Name: *	Scruton
Position: *	Dir. of EHSS
Telephone: *	4162082127
Ext	

Fax	4162082154
Email: *	Mark.Scruton@viasystems.com

Mailing Address

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PO Box	
Rural Route Number	
Address Line 1	8150 Sheppard Avenue East
City *	Toronto
Province/Territory **	Ontario
Postal Code: **	M1B5K2
Country *	Canada

Person who coordinated the preparation of the Toxics Reduction Plan

First Name: *	Mark
Last Name: *	Scruton
Position: *	Dir. of EHSS
Telephone: *	4162082127
Ext	
Fax	4162082154
Email: *	Mark.Scruton@viasystems.com

Mailing Address

Delivery Mode	
PO Box	
Rural Route Number	

Address Line 1	8150 Sheppard Avenue East
City *	Toronto
Province/Territory **	Ontario
Postal Code: **	M1B5K2
Country *	Canada

Public Contact

First Name: *	Mark
Last Name: *	Scruton
Position: *	Dir. of EHSS
Telephone: *	4162082127
Ext	
Fax	4162082154
Email: *	Mark.Scruton@viasystems.com

Mailing Address

Delivery Mode	
PO Box	
Rural Route Number	
Address Line 1	8150 Sheppard Avenue East
City *	Toronto
Province/Territory **	Ontario
Postal Code: **	M1B5K2
Country *	Canada

Environmental Regulations or Permits

Permits

8991-6N5LSA

Number or Permit Number

8991-6N5LSA

Government Department, Agency, or Program Name

Ministry of the Environment, Cert. of Air Approval

ON0761503

Number or Permit Number

ON0761503

Government Department, Agency, or Program Name

Ministry of the Environment, Regulation 347

515527

Number or Permit Number

515527

Government Department, Agency, or Program Name

CEPA EIHW Notice Number

521041

Number or Permit Number

521041

Government Department, Agency, or Program Name

CEPA EIHW Notice Number

Pollution Prevention

Pollution Prevention Plans

Does the facility have a documented pollution prevention plan? *

Yes

If 'Yes'

a) Please check all that apply

Plan was prepared or implemented for another government jurisdiction (i.e. other Fenderal government department, province, municipality). Specify name in comments field below.

b) Did the facility update their plan in the current reporting year?

Yes

c) Does the plan address substances, energy conservation, or water conservation?

Substances, Energy conservation, Water conservation

Comments **

P2 Plan was for the City of Toronto.
Installed conductivity controllers in rinse tanks and installed low flow urinals, toilets and aerators in faucets. Also assesed energy efficiency and savings from plant air compressors.

Pollution Prevention Activities

Did the facility complete any pollution prevention activities in the current NPRI reporting year? *

Yes

Selecting "Yes" will initiate the reporting of the specific pollution prevention activities that were completed in the current reporting year on the following screen.

Pollution Prevention Activities

Please indicate the pollution prevention activities that your facility implemented by checking the appropriate activities from the categories listed below.

Materials or feedstock substitution

Please indicate the pollution prevention activities that your facility implemented by checking the appropriate activities from the categories listed below.

Substituted materials

If "Other" is selected, please enter the name and description of the activity in the field below

switched cleaner which significantly reduced superfluous plating on Cu on plating racks, thereby reducing the amount of nitric acid needed to buy to strip the racks. Nitric acid rack stripping of plating racks is expected to last longer, therefore the MPO should drop over time.

Product Design or Reformulation

If "Other" is selected, please enter the name and description of the activity in the field below

Equipment or Process Modifications

If "Other" is selected, please enter the name and description of the activity in the field below

subs

Spill or Leak Prevention Activities

If "Other" is selected, please enter the name and description of the activity in the field below

On-site Re-use, Recycling, or Recovery

If "Other" is selected, please enter the name and description of the activity in the field below

Inventory Management or Purchasing Techniques

If "Other" is selected, please enter the name and description of the activity in the field below

Good Operating Practice or Training

Other (specify in comments field)

If "Other" is selected, please enter the name and description of the activity in the field below

changed from 96% to 50% w/w sulphuric aic to reduce HS risk and reduce risk of leak due to equipment damage due to high enthalpy of dilution

Other Pollution Prevention Activities

If "Other" is selected, please enter the name and description of the activity in the field below

Substance Details

50-00-0, Formaldehyde

50-00-0, Formaldehyde

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? *

No

Was the substance transferred off-site for recycling? *

No

Indicate if there were On-site Releases, Disposals or Off-site Transfers to the environment by choosing Yes or No from the drop-down boxes beside the questions below.

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 reactant

Otherwise Use of the Substance

As a physical or chemical processing aid

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) *

17.854

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.

Total Quantity Released (All Media)

Releases to All Media

Category	Basis Of Estimate	Quantity (Tonnes)
Total Quantity Released	O - Engineering Estimates	0.033

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 *

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

Comments ? (On-Site Releases)

Simplified the same estimation method.

Disposals

Reasons Why Substance Was Disposed

Select one or more reasons

Contaminated materials

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	O - Engineering Estimates	0.001
Biological Treatment	NA - Not Applicable	
Incineration / Thermal	NA - Not Applicable	
Municipal Sewage Treatment Plant	O - Engineering Estimates	0.034

Total - Treatment Prior to Final Disposal

0.035

Total Quantity Disposed (All Media)

0.035

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Chemical Treatment

Basis of Estimate

O - Engineering Estimates

Quantity (Tonnes)

0.001

Off-site

Reldan Metals, LLC

Off-Site Name

Reldan Metals, LLC

Quantity (Tonnes)

0

Address

550 Old Bordentown Road,

State/Other

PA

City

Fairless Hills

Country

USA

Detox Environmental Ltd.

Off-Site Name

Detox Environmental Ltd.

Quantity (Tonnes)

0.001

Address

322 Bennett

Prov

ON

City

Bowmanville

Country

Canada

Micronutrients

Off-Site Name

Micronutrients

Quantity (Tonnes)

0

Address

1550 Research Way

Prov

IN

City

Indianapolis

Country

United States

Highland Creek Water Treatment Plant

Off-Site Name

Highland Creek Water Treatment Plant

Quantity (Tonnes)

0

Address

1160 Highland Creek W.

Prov

ON

City

Toronto

Country

Canada

Combined Metal Industries Inc.

Off-Site Name

Combined Metal Industries Inc.

Quantity (Tonnes)

0

Address

505 B Garyray Dr.

Prov

ON

City

Weston

Country

Canada

Total Assigned (must equal total reported)

0.001

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Municipal Sewage Treatment Plant

Basis of Estimate

O - Engineering Estimates

Quantity (Tonnes)

0.034

Off-site

Reldan Metals, LLC

Off-Site Name

Reldan Metals, LLC

Quantity (Tonnes)

0

Address

550 Old Bordentown Road,

State/Other

PA

City

Fairless Hills

Country

USA

Detox Environmental Ltd.

Off-Site Name

Detox Environmental Ltd.

Quantity (Tonnes)

0

Address

322 Bennett

Prov

ON

City

Bowmanville

Country

Canada

Micronutrients

Off-Site Name

Micronutrients

Quantity (Tonnes)

0

Address

1550 Research Way

Prov

IN

City

Indianapolis

Country

United States

Highland Creek Water Treatment Plant

Off-Site Name

Highland Creek Water Treatment Plant

Quantity (Tonnes)

0.034

Address

1160 Highland Creek W.

Prov

ON

City

Toronto

Country

Canada

Combined Metal Industries Inc.

Off-Site Name

Combined Metal Industries Inc.

Quantity (Tonnes)

0

Address

505 B Garyray Dr.

Prov

ON

City

Weston

Country

Canada

Total Assigned (must equal total reported)

0.034

Reasons for Changes in Quantities Disposed from Previous Year

Select the applicable reason or reasons.

Other (specify in disposals comment field)

Comments? (Disposals)

We only shipped out 205 L in 2013 VS 2840 L in 2012

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)

Not Recycleable

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
17.854	16.088	2012	1.766	10.98

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	0	2012	0	

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 Quantity Disposed (All Media)

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0.033	0.033	2012	0.000	0

Reasons for Change

Reasons for Change

Reason(s) for Change

No reasons - quantities approximately the same

(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
0.035	0.043	2012	-0.008	-18.60

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
0	0	2012	0	

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

No reasons - quantities approximately the same

(please specify)

7647-01-0, Hydrochloric acid

7647-01-0, Hydrochloric acid

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? *

No

Was the substance transferred off-site for recycling? *

Yes

Indicate if there were On-site Releases, Disposals or Off-site Transfers to the environment by choosing Yes or No from the drop-down boxes beside the questions below.

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 reactant

Otherwise Use of the Substance

As a physical or chemical processing aid

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) *

61.244

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.

Total Quantity Released (All Media)

Releases to All Media

Category	Basis Of Estimate	Quantity (Tonnes)
Total Quantity Released	O - Engineering Estimates	0.851

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 *

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

Comments ? (On-Site Releases)

Disposals

Reasons Why Substance Was Disposed

Select one or more reasons

Contaminated materials

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	O - Engineering Estimates	0.0012

Biological Treatment	NA - Not Applicable	
Incineration / Thermal	NA - Not Applicable	
Municipal Sewage Treatment Plant	NA - Not Applicable	

Total - Treatment Prior to Final Disposal

0.0012

Total Quantity Disposed (All Media)

0.0012

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Chemical Treatment

Basis of Estimate

O - Engineering Estimates

Quantity (Tonnes)

0.0012

Off-site

Reldan Metals, LLC

Off-Site Name

Reldan Metals, LLC

Quantity (Tonnes)

0

Address

550 Old Bordentown Road,

State/Other

PA

City

Fairless Hills

Country

USA

Detox Environmental Ltd.

Off-Site Name

Detox Environmental Ltd.

Quantity (Tonnes)

0.0012

Address

322 Bennett

Prov

ON

City

Bowmanville

Country

Canada

Micronutrients

Off-Site Name

Micronutrients

Quantity (Tonnes)

0

Address

1550 Research Way

Prov

IN

City

Indianapolis

Country

United States

Highland Creek Water Treatment Plant

Off-Site Name

Highland Creek Water Treatment Plant

Quantity (Tonnes)

0

Address

1160 Highland Creek W.

Prov

ON

City

Toronto

Country

Canada

Combined Metal Industries Inc.

Off-Site Name

Combined Metal Industries Inc.

Quantity (Tonnes)

0

Address

505 B Garyray Dr.

Prov

ON

City

Weston

Country

Canada

Total Assigned (must equal total reported)

0.0012

Reasons for Changes in Quantities Disposed from Previous Year

Select the applicable reason or reasons.

Other (specify in disposals comment field)

Comments? (Disposals)

Did not dispose of HCl based Activator in 2013.

Recycling

Reasons Why Substance Was Recycled

Select one or more reasons. *

Contaminated materials

Off-site Transfers for Recycling

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

Off-site Transfers

Category	Basis Of Estimate	Quantity (Tonnes)
Energy Recovery	NA - Not Applicable	
Recovery of Solvents	NA - Not Applicable	
Recovery of Organic Substances (not solvents)	NA - Not Applicable	
Recovery of Metals and Metal Compounds	NA - Not Applicable	

Recovery of Inorganic Materials (not metals)	O - Engineering Estimates	59.197
Recovery of Acids and Bases	NA - Not Applicable	
Recovery of Catalysts	NA - Not Applicable	
Recovery of Pollution Abatement Residues	NA - Not Applicable	
Refining of Re-use of Used Oil	NA - Not Applicable	
Other	NA - Not Applicable	

Total Quantity Recycled

59.197

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Recovery of Inorganic Materials (not metals)

Basis of Estimate

O - Engineering Estimates

Quantity (Tonnes)

59.197

Off-site

Reldan Metals, LLC

Off-Site Name

Reldan Metals, LLC

Quantity (Tonnes)

0

Address

550 Old Bordentown Road,

State/Other

PA

City

Fairless Hills

Country

USA

Detox Environmental Ltd.

Off-Site Name

Detox Environmental Ltd.

Quantity (Tonnes)

0

Address

322 Bennett

Prov

ON

City

Bowmanville

Country

Canada

Micronutrients

Off-Site Name

Micronutrients

Quantity (Tonnes)

59.197

Address

1550 Research Way

Prov

IN

City

Indianapolis

Country

United States

Highland Creek Water Treatment Plant

Off-Site Name

Highland Creek Water Treatment Plant

Quantity (Tonnes)

0

Address

1160 Highland Creek W.

Prov

ON

City

Toronto

Country

Canada

Combined Metal Industries Inc.

Off-Site Name

Combined Metal Industries Inc.

Quantity (Tonnes)

0

Address

505 B Garyray Dr.

Prov

ON

City

Weston

Country

Canada

Total Assigned (must equal total reported)

59.197

Reasons for Changes in Quantities Recycled from Previous Year

Select the applicable reason or reasons *

Changes in production levels

Comments? (Recycling)

Increased inner layer core etching.

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
61.244	54.705	2012	6.539	11.95

Creation

Creation

Quantity (Tonnes)	Last Reported	Reporting Period	Change	% Change

	Quantity (Tonnes) *	of Last Reported Quantity *		
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	0	2012	0	

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 Quantity Disposed (All Media)

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0.851	0.811	2012	0.040	4.93

Reasons for Change

Reasons for Change

Reason(s) for Change

No reasons - quantities approximately the same

(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
0.0012	0.003	2012	-0.0018	-60.0

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
0	0	2012	0	

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

No reasons - quantities approximately the same

(please specify)

Comparison Report: Transfers off-site for Recycling

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 off-site Transfers for Recycling

Total off-site Transfers for Recycling

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
59.197	52.235	2012	6.962	13.33

Reasons for Change

Reasons for Change

Reason(s) for Change

Increase in production levels

(please specify)

7664-93-9, Sulphuric acid

7664-93-9, Sulphuric acid

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? *

No

Was the substance transferred off-site for recycling? *

No

Indicate if there were On-site Releases, Disposals or Off-site Transfers to the environment by choosing Yes or No from the drop-down boxes beside the questions below.

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 reactant

Otherwise Use of the Substance

As a physical or chemical processing aid

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) *

93.638

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.

Total Quantity Released (All Media)

Releases to All Media

Category	Basis Of Estimate	Quantity (Tonnes)

Total Quantity Released	O - Engineering Estimates	0.0003

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 *

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

Comments ? (On-Site Releases)

Disposals

Reasons Why Substance Was Disposed

Select one or more reasons

Contaminated materials

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	O - Engineering Estimates	8.699
Biological Treatment	NA - Not Applicable	
Incineration / Thermal	NA - Not Applicable	
Municipal Sewage Treatment Plant	NA - Not Applicable	

Total - Treatment Prior to Final Disposal

8.699

Total Quantity Disposed (All Media)

8.699

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Chemical Treatment

Basis of Estimate

O - Engineering Estimates

Quantity (Tonnes)

8.699

Off-site

Reldan Metals, LLC

Off-Site Name

Reldan Metals, LLC

Quantity (Tonnes)

0

Address

550 Old Bordentown Road,

State/Other

PA

City

Fairless Hills

Country

USA

Detox Environmental Ltd.

Off-Site Name

Detox Environmental Ltd.

Quantity (Tonnes)

8.699

Address

322 Bennett

Prov

ON

City

Bowmanville

Country

Canada

Micronutrients

Off-Site Name

Micronutrients

Quantity (Tonnes)

0

Address

1550 Research Way

Prov

IN

City

Indianapolis

Country

United States

Highland Creek Water Treatment Plant

Off-Site Name

Highland Creek Water Treatment Plant

Quantity (Tonnes)

0

Address

1160 Highland Creek W.

Prov

ON

City

Toronto

Country

Canada

Combined Metal Industries Inc.

Off-Site Name

Combined Metal Industries Inc.

Quantity (Tonnes)

0

Address

505 B Garyray Dr.

Prov

ON

City

Weston

Country

Canada

Total Assigned (must equal total reported)

8.699

Reasons for Changes in Quantities Disposed from Previous Year

Select the applicable reason or reasons.

Changes in on-site treatment

Comments? (Disposals)

Increased the used of on-site Sulfuric acid neutralization treatment.

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
93.638	84.046	2012	9.592	11.41

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	0	2012	0	

Reasons for Change

Reasons for Change

Reason(s) for Change

Implementation of actions outside of toxics reduction plan

(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 Quantity Disposed (All Media)

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0.0003	0.0002	2012	0.0001	50.0

Reasons for Change

Reasons for Change

Reason(s) for Change

No reasons - quantities approximately the same

(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
8.699	18.096	2012	-9.397	-51.93

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
0	0	2012	0	

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

Other

(please specify)

Increased use of acid neutralization system installed on site.

(please specify): Increased use of acid neutralization system installed on site.

7697-37-2, Nitric acid

7697-37-2, Nitric acid

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? *

No

Was the substance transferred off-site for recycling? *

No

Indicate if there were On-site Releases, Disposals or Off-site Transfers to the environment by choosing Yes or No from the drop-down boxes beside the questions below.

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 reactant

Otherwise Use of the Substance

As a physical or chemical processing aid

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) *

20.505

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.

Enter the values for releases to air for the substance

Releases to Air

Category	Basis Of Estimate	Quantity (Tonnes)
Stack or Point Releases	O - Engineering Estimates	1.201
Storage or Handling Releases	NA - Not Applicable	
Fugitive Releases	NA - Not Applicable	
Spills	NA - Not Applicable	
Other Non-point Releases	NA - Not Applicable	

Total - Releases to Air

1.201

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

Releases to Land

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

1.201

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 *

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

Comments ? (On-Site Releases)

Disposals

Reasons Why Substance Was Disposed

Select one or more reasons

Contaminated materials

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	O - Engineering Estimates	12.441
Biological Treatment	NA - Not Applicable	
Incineration / Thermal	NA - Not Applicable	
Municipal Sewage Treatment Plant	NA - Not Applicable	

Total - Treatment Prior to Final Disposal

12.441

Total Quantity Disposed (All Media)

12.441

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Chemical Treatment

Basis of Estimate

O - Engineering Estimates

Quantity (Tonnes)

12.441

Off-site

Reldan Metals, LLC

Off-Site Name

Reldan Metals, LLC

Quantity (Tonnes)

0

Address

550 Old Bordentown Road,

State/Other

PA

City

Fairless Hills

Country

USA

Detox Environmental Ltd.

Off-Site Name

Detox Environmental Ltd.

Quantity (Tonnes)

12.441

Address

322 Bennett

Prov

ON

City

Bowmanville

Country

Canada

Micronutrients

Off-Site Name

Micronutrients

Quantity (Tonnes)

0

Address

1550 Research Way

Prov

IN

City

Indianapolis

Country

United States

Highland Creek Water Treatment Plant

Off-Site Name

Highland Creek Water Treatment Plant

Quantity (Tonnes)

0

Address

1160 Highland Creek W.

Prov

ON

City

Toronto

Country

Canada

Combined Metal Industries Inc.

Off-Site Name

Combined Metal Industries Inc.

Quantity (Tonnes)

0

Address

505 B Garyray Dr.

Prov

ON

City

Weston

Country

Canada

Total Assigned (must equal total reported)

12.441

Reasons for Changes in Quantities Disposed from Previous Year

Select the applicable reason or reasons.

Changes in on-site treatment

Comments? (Disposals)

Batch treated some Nitric Acid based rack stripper in house.

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)

Nitric is not recyclable

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
20.505	19.433	2012	1.072	5.52

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	0	2012	0	

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

1.201	1.306	2012	-0.105	-8.04

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

No reasons - quantities approximately the same

(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
12.441	17.936	2012	-5.495	-30.64

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
0	0	2012	0	

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

Implementation of actions outside of toxics reduction plan

(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? *

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? *

No

Was the substance transferred off-site for recycling? *

Yes

Indicate if there were On-site Releases, Disposals or Off-site Transfers to the environment by choosing Yes or No from the drop-down boxes beside the questions below.

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 reactant, As an article component

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) *

157.120

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) *

33.256

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 *

Other (specify in On-site Releases comment field)

Comments ? (On-Site Releases)

Copper was not released into air.

Disposals

Reasons Why Substance Was Disposed

Select one or more reasons

Production residues, Contaminated materials, Pollution abatement 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	O - Engineering Estimates	7.909
Chemical Treatment	NA - Not Applicable	
Biological Treatment	NA - Not Applicable	
Incineration / Thermal	NA - Not Applicable	
Municipal Sewage Treatment Plant	O - Engineering Estimates	0.070

Total - Treatment Prior to Final Disposal

7.979

Total Quantity Disposed (All Media)

7.979

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Physical Treatment

Basis of Estimate

O - Engineering Estimates

Quantity (Tonnes)

7.909

Off-site

Reldan Metals, LLC

Off-Site Name

Reldan Metals, LLC

Quantity (Tonnes)

0

Address

550 Old Bordentown Road,

State/Other

PA

City

Fairless Hills

Country

USA

Detox Environmental Ltd.

Off-Site Name

Detox Environmental Ltd.

Quantity (Tonnes)

7.909

Address

322 Bennett

Prov

ON

City

Bowmanville

Country

Canada

Micronutrients

Off-Site Name

Micronutrients

Quantity (Tonnes)

0

Address

1550 Research Way

Prov

IN

City

Indianapolis

Country

United States

Highland Creek Water Treatment Plant

Off-Site Name

Highland Creek Water Treatment Plant

Quantity (Tonnes)

0

Address

1160 Highland Creek W.

Prov

ON

City

Toronto

Country

Canada

Combined Metal Industries Inc.

Off-Site Name

Combined Metal Industries Inc.

Quantity (Tonnes)

0

Address

505 B Garyray Dr.

Prov

ON

City

Weston

Country

Canada

Total Assigned (must equal total reported)

7.909

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Municipal Sewage Treatment Plant

Basis of Estimate

O - Engineering Estimates

Quantity (Tonnes)

0.070

Off-site

Reldan Metals, LLC

Off-Site Name

Reldan Metals, LLC

Quantity (Tonnes)

0

Address

550 Old Bordentown Road,

State/Other

PA

City

Fairless Hills

Country

USA

Detox Environmental Ltd.

Off-Site Name

Detox Environmental Ltd.

Quantity (Tonnes)

0

Address

322 Bennett

Prov

ON

City

Bowmanville

Country

Canada

Micronutrients

Off-Site Name

Micronutrients

Quantity (Tonnes)

0

Address

1550 Research Way

Prov

IN

City

Indianapolis

Country

United States

Highland Creek Water Treatment Plant

Off-Site Name

Highland Creek Water Treatment Plant

Quantity (Tonnes)

0.070

Address

1160 Highland Creek W.

Prov

ON

City

Toronto

Country

Canada

Combined Metal Industries Inc.

Off-Site Name

Combined Metal Industries Inc.

Quantity (Tonnes)

0

Address

505 B Garyray Dr.

Prov

ON

City

Weston

Country

Canada

Total Assigned (must equal total reported)

0.070

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 Why Substance Was Recycled

Select one or more reasons. *

Production Residues, Contaminated materials, Unusable parts or discards, Pollution abatement residues, Machine or finishing residues

Off-site Transfers for Recycling

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

Off-site Transfers

Category	Basis Of Estimate	Quantity (Tonnes)
Energy Recovery	NA - Not Applicable	
Recovery of Solvents	NA - Not Applicable	
Recovery of Organic Substances (not solvents)	NA - Not Applicable	
Recovery of Metals and Metal Compounds	O - Engineering Estimates	115.885
Recovery of Inorganic Materials (not metals)	NA - Not Applicable	
Recovery of Acids and Bases	NA - Not Applicable	
Recovery of Catalysts	NA - Not Applicable	
Recovery of Pollution Abatement Residues	NA - Not Applicable	
Refining of Re-use of Used Oil	NA - Not Applicable	
Other	NA - Not Applicable	

Total Quantity Recycled

115.885

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Recovery of Metals and Metal Compounds

Basis of Estimate

O - Engineering Estimates

Quantity (Tonnes)

115.885

Off-site

Reldan Metals, LLC

Off-Site Name

Reldan Metals, LLC

Quantity (Tonnes)

21.852

Address

550 Old Bordentown Road,

State/Other

PA

City

Fairless Hills

Country

USA

Detox Environmental Ltd.

Off-Site Name

Detox Environmental Ltd.

Quantity (Tonnes)

0

Address

322 Bennett

Prov

ON

City

Bowmanville

Country

Canada

Micronutrients

Off-Site Name

Micronutrients

Quantity (Tonnes)

65.425

Address

1550 Research Way

Prov

IN

City

Indianapolis

Country

United States

Highland Creek Water Treatment Plant

Off-Site Name

Highland Creek Water Treatment Plant

Quantity (Tonnes)

0

Address

1160 Highland Creek W.

Prov

ON

City

Toronto

Country

Canada

Combined Metal Industries Inc.

Off-Site Name

Combined Metal Industries Inc.

Quantity (Tonnes)

28.608

Address

505 B Garyray Dr.

Prov

ON

City

Weston

Country

Canada

Total Assigned (must equal total reported)

115.885

Reasons for Changes in Quantities Recycled from Previous Year

Select the applicable reason or reasons *

Changes in production levels

Comments? (Recycling)

More inner layer copper etching in 2013 vs 2012.

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
157.120	153.710	2012	3.410	2.22

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
33.256	42.077	2012	-8.821	-20.96

Reasons for Change

Reasons for Change

Reason(s) for Change

Other

(please specify)

Copper has the highest MPO of reportable elements. It is the most difficult to calculate, and the CIP result is within an acceptable margin of error.

(please specify): Copper has the highest MPO of reportable elements. It is the most difficult to calculate, and the CIP result is within an acceptable margin of error.

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
7.979	7.336	2012	0.643	8.76

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
0	0	2012	0	

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

No reasons - quantities approximately the same

(please specify)

Comparison Report: Transfers off-site for Recycling

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 off-site Transfers for Recycling

Total off-site Transfers for Recycling

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
115.885	104.297	2012	11.588	11.11

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? *

No

Was the substance transferred off-site for recycling? *

Yes

Indicate if there were On-site Releases, Disposals or Off-site Transfers to the environment by choosing Yes

or No from the drop-down boxes beside the questions below.

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 reactant, As an article component

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) *

1088.235

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) *

329.9

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	O - Engineering Estimates	0.109
Storage or Handling Releases	NA - Not Applicable	

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

Total - Releases to Air

0.109

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

Releases to Land

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

0.109

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 *

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

Comments ? (On-Site Releases)

Disposals

Reasons Why Substance Was Disposed

Select one or more reasons

Contaminated materials, Pollution abatement 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	O - Engineering Estimates	9.465
Biological Treatment	NA - Not Applicable	
Incineration / Thermal	NA - Not Applicable	
Municipal Sewage Treatment Plant	O - Engineering Estimates	1.406

Total - Treatment Prior to Final Disposal

10.871

Total Quantity Disposed (All Media)

10.871

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Chemical Treatment

Basis of Estimate

O - Engineering Estimates

Quantity (kg)

9.465

Off-site

Reldan Metals, LLC

Off-Site Name

Reldan Metals, LLC

Quantity (kg)

0

Address

550 Old Bordentown Road,

State/Other

PA

City

Fairless Hills

Country

USA

Detox Environmental Ltd.

Off-Site Name

Detox Environmental Ltd.

Quantity (kg)

9.465

Address

322 Bennett

Prov

ON

City

Bowmanville

Country

Canada

Micronutrients

Off-Site Name

Micronutrients

Quantity (kg)

0

Address

1550 Research Way

Prov

IN

City

Indianapolis

Country

United States

Highland Creek Water Treatment Plant

Off-Site Name

Highland Creek Water Treatment Plant

Quantity (kg)

0

Address

1160 Highland Creek W.

Prov

ON

City

Toronto

Country

Canada

Combined Metal Industries Inc.

Off-Site Name

Combined Metal Industries Inc.

Quantity (kg)

0

Address

505 B Garyray Dr.

Prov

ON

City

Weston

Country

Canada

Total Assigned (must equal total reported)

9.465

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Municipal Sewage Treatment Plant

Basis of Estimate

O - Engineering Estimates

Quantity (kg)

1.406

Off-site

Reldan Metals, LLC

Off-Site Name

Reldan Metals, LLC

Quantity (kg)

0

Address

550 Old Bordentown Road,

State/Other

PA

City

Fairless Hills

Country

USA

Detox Environmental Ltd.

Off-Site Name

Detox Environmental Ltd.

Quantity (kg)

0

Address

322 Bennett

Prov

ON

City

Bowmanville

Country

Canada

Micronutrients

Off-Site Name

Micronutrients

Quantity (kg)

0

Address

1550 Research Way

Prov

IN

City

Indianapolis

Country

United States

Highland Creek Water Treatment Plant

Off-Site Name

Highland Creek Water Treatment Plant

Quantity (kg)

1.406

Address

1160 Highland Creek W.

Prov

ON

City

Toronto

Country

Canada

Combined Metal Industries Inc.

Off-Site Name

Combined Metal Industries Inc.

Quantity (kg)

0

Address

505 B Garyray Dr.

Prov

ON

City

Weston

Country

Canada

Total Assigned (must equal total reported)

1.406

Reasons for Changes in Quantities Disposed from Previous Year

Select the applicable reason or reasons.

Other (specify in disposals comment field)

Comments? (Disposals)

Disposed of lead contaminated rags in 2013.

Recycling

Reasons Why Substance Was Recycled

Select one or more reasons. *

Off-specification products, Contaminated materials, Unusable parts or discards

Off-site Transfers for Recycling

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

Off-site Transfers

Category	Basis Of Estimate	Quantity (kg)
Energy Recovery	NA - Not Applicable	
Recovery of Solvents	NA - Not Applicable	
Recovery of Organic Substances (not solvents)	NA - Not Applicable	
Recovery of Metals and Metal Compounds	O - Engineering Estimates	747.356
Recovery of Inorganic Materials (not metals)	NA - Not Applicable	
Recovery of Acids and Bases	NA - Not Applicable	
Recovery of Catalysts	NA - Not Applicable	
Recovery of Pollution Abatement Residues	NA - Not Applicable	

Refining of Re-use of Used Oil	NA - Not Applicable	
Other	NA - Not Applicable	

Total Quantity Recycled

747.356

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Recovery of Metals and Metal Compounds

Basis of Estimate

O - Engineering Estimates

Quantity (kg)

747.356

Off-site

Reldan Metals, LLC

Off-Site Name

Reldan Metals, LLC

Quantity (kg)

0

Address

550 Old Bordentown Road,

State/Other

PA

City

Fairless Hills

Country

USA

Detox Environmental Ltd.

Off-Site Name

Detox Environmental Ltd.

Quantity (kg)

0

Address

322 Bennett

Prov

ON

City

Bowmanville

Country

Canada

Micronutrients

Off-Site Name

Micronutrients

Quantity (kg)

0

Address

1550 Research Way

Prov

IN

City

Indianapolis

Country

United States

Highland Creek Water Treatment Plant

Off-Site Name

Highland Creek Water Treatment Plant

Quantity (kg)

0

Address

1160 Highland Creek W.

Prov

ON

City

Toronto

Country

Canada

Combined Metal Industries Inc.

Off-Site Name

Combined Metal Industries Inc.

Quantity (kg)

747.356

Address

505 B Garyray Dr.

Prov

ON

City

Weston

Country

Canada

Total Assigned (must equal total reported)

747.356

Reasons for Changes in Quantities Recycled from Previous Year

Select the applicable reason or reasons *

Changes in production levels

Comments? (Recycling)

HASLed less panels in 2013 VS 2012

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
1088.235	1388.786	2012	-300.551	-21.64

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

329.9	248.387	2012	81.513	32.82

Reasons for Change

Reasons for Change

Reason(s) for Change

Other

(please specify)

The CIP is within an acceptable margin of error.

(please specify): The CIP is within an acceptable margin of error.

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
0.109	0.139	2012	-0.030	-21.58

Total Releases to Water

Total Releases to Water

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

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

No reasons - quantities approximately the same

(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
10.871	7.621	2012	3.250	42.65

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
0	0	2012	0	

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

Implementation of actions outside of toxics reduction plan

(please specify)

Comparison Report: Transfers off-site for Recycling

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 off-site Transfers for Recycling

Total off-site Transfers for Recycling

Quantity (kg)	Last Reported Quantity (kg) *	Reporting Period of Last Reported Quantity *	Change	% Change
747.356	1132.640	2012	-385.284	-34.02

Reasons for Change

Reasons for Change

Reason(s) for Change

Other

(please specify)

Purged and refilled the solder sump in 2012, but not in 2013.

(please specify): Purged and refilled the solder sump in 2012, but not in 2013.

NA - 16, Ammonia (total)

NA - 16, Ammonia (total)

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? *

No

Was the substance transferred off-site for recycling? *

Yes

Indicate if there were On-site Releases, Disposals or Off-site Transfers to the environment by choosing Yes or No from the drop-down boxes beside the questions below.

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 reactant

Otherwise Use of the Substance

As a physical or chemical processing aid

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) *

39.408

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

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 **

Ipproved process efficiency on our ammoniacal etchant.

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	O - Engineering Estimates	17.242
Storage or Handling Releases	NA - Not Applicable	
Fugitive Releases	NA - Not Applicable	
Spills	NA - Not Applicable	
Other Non-point Releases	NA - Not Applicable	

Total - Releases to Air

17.242

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

Releases to Land

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

17.242

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 *

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

Comments ? (On-Site Releases)

Disposals

Reasons Why Substance Was Disposed

Select one or more reasons

Contaminated materials

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	O - Engineering Estimates	0.319

Biological Treatment	NA - Not Applicable	
Incineration / Thermal	NA - Not Applicable	
Municipal Sewage Treatment Plant	O - Engineering Estimates	0.069

Total - Treatment Prior to Final Disposal

0.388

Total Quantity Disposed (All Media)

0.388

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Chemical Treatment

Basis of Estimate

O - Engineering Estimates

Quantity (Tonnes)

0.319

Off-site

Reldan Metals, LLC

Off-Site Name

Reldan Metals, LLC

Quantity (Tonnes)

0

Address

550 Old Bordentown Road,

State/Other

PA

City

Fairless Hills

Country

USA

Detox Environmental Ltd.

Off-Site Name

Detox Environmental Ltd.

Quantity (Tonnes)

0.319

Address

322 Bennett

Prov

ON

City

Bowmanville

Country

Canada

Micronutrients

Off-Site Name

Micronutrients

Quantity (Tonnes)

0

Address

1550 Research Way

Prov

IN

City

Indianapolis

Country

United States

Highland Creek Water Treatment Plant

Off-Site Name

Highland Creek Water Treatment Plant

Quantity (Tonnes)

0

Address

1160 Highland Creek W.

Prov

ON

City

Toronto

Country

Canada

Combined Metal Industries Inc.

Off-Site Name

Combined Metal Industries Inc.

Quantity (Tonnes)

0

Address

505 B Garyray Dr.

Prov

ON

City

Weston

Country

Canada

Total Assigned (must equal total reported)

0.319

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Municipal Sewage Treatment Plant

Basis of Estimate

O - Engineering Estimates

Quantity (Tonnes)

0.069

Off-site

Reldan Metals, LLC

Off-Site Name

Reldan Metals, LLC

Quantity (Tonnes)

0

Address

550 Old Bordentown Road,

State/Other

PA

City

Fairless Hills

Country

USA

Detox Environmental Ltd.

Off-Site Name

Detox Environmental Ltd.

Quantity (Tonnes)

0

Address

322 Bennett

Prov

ON

City

Bowmanville

Country

Canada

Micronutrients

Off-Site Name

Micronutrients

Quantity (Tonnes)

0

Address

1550 Research Way

Prov

IN

City

Indianapolis

Country

United States

Highland Creek Water Treatment Plant

Off-Site Name

Highland Creek Water Treatment Plant

Quantity (Tonnes)

0.069

Address

1160 Highland Creek W.

Prov

ON

City

Toronto

Country

Canada

Combined Metal Industries Inc.

Off-Site Name

Combined Metal Industries Inc.

Quantity (Tonnes)

0

Address

505 B Garyray Dr.

Prov

ON

City

Weston

Country

Canada

Total Assigned (must equal total reported)

0.069

Reasons for Changes in Quantities Disposed from Previous Year

Select the applicable reason or reasons.

Other (specify in disposals comment field)

Comments? (Disposals)

We disposed of 37,000 L in 2013 vs 51,000 L in 2012 of ammonium salt based Elecroless nickel.

Recycling

Reasons Why Substance Was Recycled

Select one or more reasons. *

Contaminated materials

Off-site Transfers for Recycling

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

Off-site Transfers

Category	Basis Of Estimate	Quantity (Tonnes)
Energy Recovery	NA - Not Applicable	
Recovery of Solvents	NA - Not Applicable	
Recovery of Organic Substances (not solvents)	NA - Not Applicable	
Recovery of Metals and Metal Compounds	NA - Not Applicable	
Recovery of Inorganic Materials (not metals)	O - Engineering Estimates	21.780

Recovery of Acids and Bases	NA - Not Applicable	
Recovery of Catalysts	NA - Not Applicable	
Recovery of Pollution Abatement Residues	NA - Not Applicable	
Refining of Re-use of Used Oil	NA - Not Applicable	
Other	NA - Not Applicable	

Total Quantity Recycled

21.780

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Recovery of Inorganic Materials (not metals)

Basis of Estimate

O - Engineering Estimates

Quantity (Tonnes)

21.780

Off-site

Reldan Metals, LLC

Off-Site Name

Reldan Metals, LLC

Quantity (Tonnes)

0

Address

550 Old Bordentown Road,

State/Other

PA

City

Fairless Hills

Country

USA

Detox Environmental Ltd.

Off-Site Name

Detox Environmental Ltd.

Quantity (Tonnes)

0

Address

322 Bennett

Prov

ON

City

Bowmanville

Country

Canada

Micronutrients

Off-Site Name

Micronutrients

Quantity (Tonnes)

21.780

Address

1550 Research Way

Prov

IN

City

Indianapolis

Country

United States

Highland Creek Water Treatment Plant

Off-Site Name

Highland Creek Water Treatment Plant

Quantity (Tonnes)

0

Address

1160 Highland Creek W.

Prov

ON

City

Toronto

Country

Canada

Combined Metal Industries Inc.

Off-Site Name

Combined Metal Industries Inc.

Quantity (Tonnes)

0

Address

505 B Garyray Dr.

Prov

ON

City

Weston

Country

Canada

Total Assigned (must equal total reported)

21.780

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
39.408	41.846	2012	-2.438	-5.83

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	0	2012	0	

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
17.242	18.084	2012	-0.842	-4.66

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

No reasons - quantities approximately the same

(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
0.388	0.481	2012	-0.093	-19.33

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
0	0	2012	0	

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

No reasons - quantities approximately the same

(please specify)

Comparison Report: Transfers off-site for Recycling

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 off-site Transfers for Recycling

Total off-site Transfers for Recycling

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

21.780	23.375	2012	-1.595	-6.82

Reasons for Change

Reasons for Change

Reason(s) for Change

No reasons - quantities approximately the same

(please specify)