Report Preview **Company Details** Name Meridian Technologies Inc. Address 155 High Street East, Strathroy (Ontario) Report Details Report Status Submitted 2013 Report Type Inventory **Facility Name** Meridian Lightweight Technologies Inc **Facility Address** 155 High Street, Strathroy (Ontario) **Update Comments Activity Details** Applicable Programs Please select all that apply. **Environment Canada Programs** \times NPRI - National Pollutant Release Inventory **Partnering Programs** $|\mathsf{X}|$ ON MOE TRA - Ontario Ministry of the Environment for the Toxic Reductions Act

Page 1 of 53 Printed on 10/04/2015 4:52:24 PM

Monitoring and Reporting Regulation

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

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: * Don Lyons Certifying Official (or authorized delegate): * Don Lyons Highest Ranking Employee: * Matt MacDonald Person who prepared the report: * Don Lyons Person who coordinated the preparation of the Toxics Reduction Plan (required after a plan summary has been submitted) Don Lyons Company Coordinator (optional) Public Contact (optional) Contractor Contact (optional)		NERM - Chemistry Industry Association of Canada for the National Emission Reduction Masterplan survey
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: * Don Lyons Certifying Official (or authorized delegate): * Don Lyons Highest Ranking Employee: * Matt MacDonald Person who prepared the report: * Don Lyons Person who coordinated the preparation of the Toxics Reduction Plan (required after a plan summary has been submitted) Don Lyons Company Coordinator (optional) Public Contact (optional) Contractor Contact (optional) If you are an independent contractor or consultant, please enter your company name in the field below		NFPRER - National Framework for Petroleum Refinery Emission Reductions
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: * Don Lyons Certifying Official (or authorized delegate): * Don Lyons Highest Ranking Employee: * Matt MacDonald Person who prepared the report: * Don Lyons Person who coordinated the preparation of the Toxics Reduction Plan (required after a plan summary has been submitted) Don Lyons Company Coordinator (optional) Public Contact (optional) Contractor Contact (optional) If you are an independent contractor or consultant, please enter your company name in the field below	Cont	acts
Select the appropriate person from the drop-down menu for each contact. Technical Contact: * Don Lyons Certifying Official (or authorized delegate): * Don Lyons Highest Ranking Employee: * Matt MacDonald Person who prepared the report: * Don Lyons Person who coordinated the preparation of the Toxics Reduction Plan (required after a plan summary has been submitted) Don Lyons Company Coordinator (optional) Public Contact (optional) Contractor Contact (optional) If you are an independent contractor or consultant, please enter your company name in the field below	Select	the appropriate person from the drop-down menu for each contact.
Select the appropriate person from the drop-down menu for each contact. Technical Contact: * Don Lyons Certifying Official (or authorized delegate): * Don Lyons Highest Ranking Employee: * Matt MacDonald Person who prepared the report: * Don Lyons Person who coordinated the preparation of the Toxics Reduction Plan (required after a plan summary has been submitted) Don Lyons Company Coordinator (optional) Public Contact (optional) Contractor Contact (optional) If you are an independent contractor or consultant, please enter your company name in the field below	Facil	lity Contacts
Certifying Official (or authorized delegate): * Don Lyons Highest Ranking Employee: * Matt MacDonald Person who prepared the report: * Don Lyons Person who coordinated the preparation of the Toxics Reduction Plan (required after a plan summary has been submitted) Don Lyons Company Coordinator (optional) Public Contact (optional) Contractor Contact (optional) If you are an independent contractor or consultant, please enter your company name in the field below		•
Certifying Official (or authorized delegate): * Don Lyons Highest Ranking Employee: * Matt MacDonald Person who prepared the report: * Don Lyons Person who coordinated the preparation of the Toxics Reduction Plan (required after a plan summary has been submitted) Don Lyons Company Coordinator (optional) Public Contact (optional) Contractor Contact (optional) If you are an independent contractor or consultant, please enter your company name in the field below	Techni	cal Contact: *
Don Lyons Highest Ranking Employee: * Matt MacDonald Person who prepared the report: * Don Lyons Person who coordinated the preparation of the Toxics Reduction Plan (required after a plan summary has been submitted) Don Lyons Company Coordinator (optional) Public Contact (optional) Contractor Contact (optional) If you are an independent contractor or consultant, please enter your company name in the field below	Don L	yons
Highest Ranking Employee: * Matt MacDonald Person who prepared the report: * Don Lyons Person who coordinated the preparation of the Toxics Reduction Plan (required after a plan summary has been submitted) Don Lyons Company Coordinator (optional) Public Contact (optional) Contractor Contact (optional) If you are an independent contractor or consultant, please enter your company name in the field below	Certify	ing Official (or authorized delegate): *
Matt MacDonald Person who prepared the report: * Don Lyons Person who coordinated the preparation of the Toxics Reduction Plan (required after a plan summary has been submitted) Don Lyons Company Coordinator (optional) Public Contact (optional) Contractor Contact (optional) If you are an independent contractor or consultant, please enter your company name in the field below	Don L	yons
Person who prepared the report: * Don Lyons Person who coordinated the preparation of the Toxics Reduction Plan (required after a plan summary has been submitted) Don Lyons Company Coordinator (optional) Public Contact (optional) Contractor Contact (optional) If you are an independent contractor or consultant, please enter your company name in the field below	Highes	et Ranking Employee: *
Person who coordinated the preparation of the Toxics Reduction Plan (required after a plan summary has been submitted) Don Lyons Company Coordinator (optional) Public Contact (optional) Contractor Contact (optional) If you are an independent contractor or consultant, please enter your company name in the field below	Matt M	MacDonald MacDonald
Person who coordinated the preparation of the Toxics Reduction Plan (required after a plan summary has been submitted) Don Lyons Company Coordinator (optional) Public Contact (optional) Contractor Contact (optional) If you are an independent contractor or consultant, please enter your company name in the field below	Person	n who prepared the report: *
Don Lyons Company Coordinator (optional) Public Contact (optional) Contractor Contact (optional) If you are an independent contractor or consultant, please enter your company name in the field below	Don L	yons
Company Coordinator (optional) Public Contact (optional) Contractor Contact (optional) If you are an independent contractor or consultant, please enter your company name in the field below		
Public Contact (optional) Contractor Contact (optional) If you are an independent contractor or consultant, please enter your company name in the field below	Don L	yons
Contractor Contact (optional) If you are an independent contractor or consultant, please enter your company name in the field below	Compa	any Coordinator (optional)
Contractor Contact (optional) If you are an independent contractor or consultant, please enter your company name in the field below		
If you are an independent contractor or consultant, please enter your company name in the field below	Public	Contact (optional)
If you are an independent contractor or consultant, please enter your company name in the field below		
	Contra	ctor Contact (optional)
	If you a	are an independent contractor or consultant, please enter your company name in the field below
Employees and Activities	n you a	are arrangement contractor or consultant, please enter your company name in the held below
Employees and Activities	Emp	loyees and Activities
Employees	-	
Number of Employees *	•	•

Page 2 of 53

360						
Λ .:						
"None of the	y was engag e Above". Fo	•	•		elevant box(es), these activities t	otherwise click hen you must report
Activities for	Which the 2	0,000-Hour Emp	oloyee Thresho	ld Does Not Ap	oly: (check all tha	t apply) *
None of the	above					
Activities Re	elevant to Re	porting Dioxins,	Furans and He	xacholorobenze	ene: (check all tha	at apply) *
None of the	above					
Activities (PAHs)	s Releva	nt to Report	ting of Poly	ycyclic Aro	matic Hydro	carbons
,	wing activity	take place at the	e facility?			
Wood prese	rvation using	g creosote: *				
No						
General	Facility I	nformation				
NPRI						
Is this the fir	st time the fa	acility is reporting	g to the NPRI (under current or	past ownership)	? *
No						
Is the facility	controlled b	y another Canad	dian company d	or companies? *		
No						
Did the facil	ity report und	der other environ	mental regulati	ons or permits?	*	
No						
Is the facility	required to	report one or mo	ore NPRI Part 4	substances (C	riteria Air Contam	ninants)? *
Yes						
If 'Yes' to re during the ye	porting for or ear? **	ne or more Part 4	1 substances:V	/as the facility s	hut down for mor	e than one week
No						
Operatir	ng Sched	ule - Days	of the Wee	ek **		
Mon	Tue	Wed	Thu	Fri	Sat	Sun
X	\boxtimes	×	X	×		

Jsual Number of Operating Hours per day	Usual Daily Start Time (24h) (hh:mm)
24	00:00
Shutdown Periods **	
o report a shutdown period, click the "+" sign to tempty	he right side of the screen.
General Comments for Facility	
Comments	
erify Facility Information	
company Information	
Company Details	
ompany Legal Name	Meridian Technologies Inc.
usiness Number	899731335
lailing Address	
elivery Mode	General Delivery
О Вох	
ural Route Number	
ddress Line 1	155 High Street East
ty *	Strathroy
rovince/Territory **	Ontario
estal Code: **	N7G1H4
untry *	Canada
cility Information	
cility *	Meridian Lightweight Technologies Inc

331523

NAICS Code *

NPRI ID *	7674 (Assigned by Environment Canada)			
Facility Physical Address				
Address Line 1	155 High Street			
City	Strathroy			
Province/Territory	Ontario			
Postal Code	N7G1H4			
Country	Canada			
Additional Information				
Land Survey Description				
National Topographical Description				
Geographical Address				
Latitude **	42.95950			
Longitude **	-81.61140			
UTM Zone **	17			
UTM Easting **	449508			
UTM Northing **	4759827			
Facility Contacts				
Contact Types				
Technical Contact				
First Name: *	Don			
Last Name: *	Lyons			
Position: *	Health and SAfety Coordinator			
Telephone: *	5192454040			

Ext	244		
Fax	5192454620		
Email: *	dlyons@meridian-mag.com		
Mailing Address			
Delivery Mode			
PO Box			
Rural Route Number			
Address Line 1	155 High Street East		
City *	Strathroy		
Province/Territory **	Ontario		
Postal Code: **	N7G 1H4		
Country *	Canada		
Certifying Official			
First Name: *	Don		
Last Name: *	Lyons		
Position: *	Health and SAfety Coordinator		
Telephone: *	5192454040		
Ext	244		
Fax	5192454620		
Email: *	dlyons@meridian-mag.com		
Mailing Address			
Delivery Mode			
PO Box			

Page 6 of 53 Printed on 10/04/2015 4:52:24 PM

Rural Route Number		
Address Line 1	155 High Street East	
City *	Strathroy	
Province/Territory **	Ontario	
Postal Code: **	N7G 1H4	
Country *	Canada	
Highest Ranking Employee		
First Name: *	Matt	
Last Name: *	MacDonald	
Position: *	Plant Manager	
Telephone: *	5192454040	
Ext		
Fax		
Email: *	mmacdonald@meridian-mag.com	
Mailing Address		
Delivery Mode	Suburban Services	
PO Box		
Rural Route Number		
Address Line 1	155 High Street East	
City *	Strathroy	
Province/Territory **	Ontario	
Postal Code: **	N7G 1H4	
Country *	Canada	

Page 7 of 53 Printed on 10/04/2015 4:52:24 PM

Person who prepared the report				
First Name: *	Don			
Last Name: *	Lyons			
Position: *	Health and SAfety Coordinator			
Telephone: *	5192454040			
Ext	244			
Fax	5192454620			
Email: *	dlyons@meridian-mag.com			
Mailing Address				
Delivery Mode				
PO Box				
Rural Route Number				
Address Line 1	155 High Street East			
City *	Strathroy			
Province/Territory **	Ontario			
Postal Code: **	N7G 1H4			
Country *	Canada			
Person who coordinated the preparation of the Toxics Reduction Plan				
First Name: *	Don			
Last Name: *	Lyons			
Position: *	Health and SAfety Coordinator			
Telephone: *	5192454040			
Ext	244			

Fax	5192454620			
Email: *	dlyons@meridian-mag.com			
Mailing Address				
Delivery Mode	General Delivery			
PO Box				
Rural Route Number				
Address Line 1	155 High Street East			
City *	Strathroy			
Province/Territory **	Ontario			
Postal Code: **	N7G 1H4			
Country *	Canada			
Pollution Prevention				
Pollution Prevention Plans				
Does the facility have a documented pollution preventi	on plan? *			
Yes				
If 'Yes'				
a) Please check all that apply				
Plan was prepared or implemented on a voluntary basis.				
b) Did the facility update their plan in the current report	ting year?			
No				
c) Does the plan address substances, energy conservation, or water conservation?				
Energy conservation, Water conservation				
Please summarize your pollution prevention plan and/or your pollution prevention activities (this information will be publicly available) **				

Page 9 of 53 Printed on 10/04/2015 4:52:24 PM

Pollution	Prevention	Activities
1 (////////////////////////////////////	1 1 (,	

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

No

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

Substance Details

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

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

Substance Reporting Status

Applicable Programs

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

Yes

ON MOE TRA - Does this substance meet the criteria specified in the Ontario Regulation 455/09 under the TRA? Selecting "No" indicates voluntary reporting of this substance to the ON MOE. *

Yes

Is this considered the first report for this substance to the ON MOE TRA? (Please select "Help" for further clarification) *

No

Would you like to create an exit record for this ON MOE TRA substance? *

No

Comments

TRA Quantifications

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

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

Quantity (Tonnes) **

0.000

	vant to use ranges for public reporting? If "No" is selected you are indicating that any report to the ay contain the exact quantity provided. *
No	
Creati	on
The amo	ount of substance that is created
Quantity	(Tonnes) **
0.712	
	vant to use ranges for public reporting? If "No" is selected you are indicating that any report to the ay contain the exact quantity provided. *
Yes	
Chang	ge in Method of Quantification
	nere has been a change in the method or combination of methods used to track and quantify the ubstance during the previous calendar year
Describe	the changes **
Select th	e reason for change: **
Describe	how the change impact tracking and quantification of the substance **
Incide	nts out of the normal course of events
	nere have been incidents out of the normal course of events that occurred at the facility during the revious calendar year that affected the results of tracking/quantification of this substance.
Explain h	now tracking and quantifications were affected **
Signifi	icant Process Change
	nere has been a significant process change at the facility during the previous calendar year.
	e Releases
Click "Ec	lit" to enter your reportable values.In order to calculate totals, you must click the "Validate" button.

Page 11 of 53 Printed on 10/04/2015 4:52:25 PM

Enter the values for releases to air for the substance

Releases to Air **Basis Of Estimate Quantity (Tonnes)** Category Stack or Point Releases 0.711 O - Engineering Estimates Storage or Handling Releases NA - Not Applicable **Fugitive Releases** NA - Not Applicable Spills NA - Not Applicable Other Non-point Releases NA - Not Applicable Road Dust E2 - Published Emission Factors 0.001 Total - Releases to Air 0.712 Breakdown of Annual Releases Distribute Equally **Monthly Releases** January % February % March % April % 8.33 8.33 8.34 8.33 May % June % July % August % 8.33 8.34 8.33 8.33 September % October % November % December % 8.34 8.33 8.33 8.34 Total % 100.00

Reasons for Changes in Quantities Released from Previous Year Select the applicable reason or reasons * No significant change (i.e. < 10%) or no change Comments ? (On-Site Releases) ** Comparison Report: Enters, Creation, Contained in Product Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts. Enters the facility (Use) Enters the facility (Use) Quantity (Tonnes) **Last Reported Reporting Period** Change % Change Quantity of Last Reported (Tonnes) * Quantity * 0.000 0.000 2012 0.000 Creation Creation **Reporting Period** Quantity (Tonnes) **Last Reported** Change % Change Quantity of Last Reported (Tonnes) * Quantity * 0.712 0.707 2012 0.005 0.71 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 Release	s to Air			
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0.712	0.707	2012	0.005	0.71
Total Release	s to Water			
Total Release	s to Water			
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	
Total Release Total Release				
Total Release	s to Land Last Reported	Reporting Period	Change	% Change
	Quantity (Tonnes) *	of Last Reported Quantity *	-	
0	0	2012	0	
Paggang for C	hango			
Reasons for C Reasons for C	•			
Reason(s) for Chang	•			
Increase in production	•			
(please specify)				
NA - M10 PM	12.5 - Particul	ate Matter <= 2.	5 Microns	
NA - M10, PM2.5 - F			5 141101 0110	
	porting Status			

Applicable Programs
NPRI - Does this substance meet the criteria specified in the Canada Gazette notice? Selecting "No" indicates voluntary reporting of this substance to the NPRI. *
Yes
ON MOE TRA - Does this substance meet the criteria specified in the Ontario Regulation 455/09 under the TRA? Selecting "No" indicates voluntary reporting of this substance to the ON MOE. *
Yes
Is this considered the first report for this substance to the ON MOE TRA? (Please select "Help" for further clarification) *
No
Would you like to create an exit record for this ON MOE TRA substance? *
No
Comments
TRA Quantifications
Enters the facility (Use), Creation, Contained in Product for ON MOE TRA
Enters the facility (Use)
The amount of substance that enters a process as the substance itself or part of another substance, rolled up at the facility level.
Quantity (Tonnes) **
0.000
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
No
Creation
The amount of substance that is created
Quantity (Tonnes) **
0.711

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 quar	ntity provided. *	
Yes		
Change in Method of C)uantification	
•	in the method or combination of m	ethods used to track and quantify the
Describe the changes **		
Select the reason for change: **		
Describe how the change impact	tracking and quantification of the s	substance **
Incidents out of the nor	mal course of events	
	out of the normal course of events t affected the results of tracking/qu	s that occurred at the facility during the uantification of this substance.
Explain how tracking and quantific	cations were affected **	
Significant Process Cha	ange	
	nt process change at the facility du	uring the previous calendar year.
On-site Releases		,
	le values.In order to calculate total	ls, you must click the "Validate" button.
Enter the values for rel	eases to air for the subs	stance
Releases to Air		
Category	Basis Of Estimate	Quantity (Tonnes)
Stack or Point Releases	O - Engineering Estimates	0.711
Storage or Handling Releases	NA - Not Applicable	
Fugitive Releases	NA - Not Applicable	
Snills	NA - Not Applicable	

Page 16 of 53 Printed on 10/04/2015 4:52:26 PM

Other Non-point Releases	5	NA - Not Applica	ble		
Road Dust E2 - Published Emission Factors 0.000					
Total - Releases to Air					
0.711					
Breakdown of Anr	nual Re	eleases			
☐ Distribute Equally					
Monthly Releases					
January %	Februar	y %	March %		April %
8.33	8.33		8.34		8.33
May % June %		July %			August %
8.33	8.34		8.33		8.33
September %	October	· %	November %		December %
8.34	8.33		8.33		8.34
Total %					
100.00					
Reasons for Chan	iges in	Quantities R	Released fron	n Previ	ous Year
Select the applicable reas	on or reas	ons *			
Changes in production lev	/els				
Comments ? (On-Site Rel	eases) **				

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)

0.000 Creation Creation	0.000	2012		
_		2012	0.000	
<u> </u>				
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0.711	0.706	2012	0.005	0.71
Reasons for Cl Reasons for Cl	•			
Reason(s) for Change	Э			
Increase in production	n levels			
please specify)				
Comparison Re	eport: On-site	Releases		
•	•		•	ed quantity" reflect current
	•	o the current year's tem	-	on, the exact values in you

Total Releases to Air					
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change	
0.711	0.706	2012	0.005	0.71	
Total Release	s to Water				
Total Release	s to Water				
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change	

0	0	2012	0	
Total Release	s to Land			
Total Release	s to Land			
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0	0	2012	0	
Dagage for C	`h o o o o			
Reasons for C				
Reasons for C	•			
Reason(s) for Chang	ge 			
Increase in production	on levels			
(please specify)				
NA - 09. Man	ganese (and its	compounds)		
•	e (and its compounds)	•		
Substance Re	porting Status			
Applicable Pro				
NPRI - Does this sub indicates voluntary re	ostance meet the crite eporting of this substa	ria specified in the Ca nce to the NPRI. *	nada Gazette notice	? Selecting "No"
Yes				
ON MOE TRA - Doe TRA? Selecting "No	s this substance meet ' indicates voluntary re	the criteria specified i	in the Ontario Regula	ation 455/09 under the
Yes				
Is this considered the clarification) *	e first report for this su	bstance to the ON MO	DE TRA? (Please se	lect "Help" for further
No				
Would you like to cre	eate an exit record for	this ON MOE TRA su	bstance? *	
No				

Comments

General Information about the Substance
Releases and Transfers of the Substance
Releases and Transfers of the Substance
Was the substance released on-site? *
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? *
No
Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? *
No
Was the substance transferred off-site for recycling? *
Yes
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 formulation 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

Page 20 of 53 Printed on 10/04/2015 4:52:27 PM

at the facility level.
Quantity (Tonnes) **
56.063
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) **
0.000
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *
No
Contained in Product
The amount of substance contained in product
Quantity (Tonnes) **
38.111
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 **

Inci	dents out of the normal course of events
	There have been incidents out of the normal course of events that occurred at the facility during the previous calendar year that affected the results of tracking/quantification of this substance.
Expl	ain how tracking and quantifications were affected **
Sig	nificant Process Change
☐ ○	There has been a significant process change at the facility during the previous calendar year.
Click	"Edit" to enter your reportable values.In order to calculate totals, you must click the "Validate" button.
Rea	asons for Changes in Quantities Released from Previous Year
Sele	ct the applicable reason or reasons *
No s	ignificant change (i.e. < 10%) or no change
Com	ments ? (On-Site Releases) **
Dis	posals
Rea	asons for Changes in Quantities Disposed from Previous Year
Sele	et the applicable reason or reasons.
No s	ignificant change (i.e. < 10%) or no change
Com	ments? (Disposals)
Red	cycling
Rea	asons Why Substance Was Recycled
	ct one or more reasons. *
Proc	uction Residues, Off-specification products
Off.	site Transfers for Recycling
	"Edit" to enter your reportable values.In order to calculate totals, you must click the "Validate" button.
Off-	site Transfers
Cate	gory Basis Of Estimate Quantity (Tonnes)

Page 22 of 53 Printed on 10/04/2015 4:52:28 PM

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	C - Mass Balance	7.355
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		
7.355		

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

		•		
20	CIC	Ωŧ	Estimate	
ப	כוכו	w		

C - Mass Balance

Quantity (Tonnes)

7.355

Off-site

Off-Site Name	Quantity (Tonnes)	Address
Meridian	6.899	4000 Town Center Suite 1000, Southfield, Michigan, USA
Aleris	0.456	7496 Torbam Toad, Mississauga, ON, Canada

Total Assigned (must equal total reported)

7.355

Reasons for Changes in Quantities Recycled from Previous Year

Select the applicable reason or reasons *

Changes in production levels

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
56.063	42.016	2012	14.047	33.43

Creation

\sim			
<i>1</i> 'ı	\sim	\ † i /	n
١,	rea	111() I I
\sim	~~	4 L I \	_

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
0.000	0.000	2012	0.000	
Contained in F	Product			
Contained in F	Product			
Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change
38.111	27.679	2012	10.432	37.69
Reasons for C	:hange			
Reasons for C	•			
Reason(s) for Chang	•			
Increase in production	on levels			
(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
7.355	5.909	2012	1.446	24.47

Reasons for Change

Reasons for Change

Reason(s) for Change

Increase in production levels	
(please specify)	
NA - 06, Copper (and its compounds)	
NA - 06, Copper (and its compounds)	
Substance Reporting Status	
Applicable Programs	
NPRI - Does this substance meet the criteria specified in the Canada Gazette notice? Selecting "No" indicates voluntary reporting of this substance to the NPRI. *	
Yes	
ON MOE TRA - Does this substance meet the criteria specified in the Ontario Regulation 455/09 under TRA? Selecting "No" indicates voluntary reporting of this substance to the ON MOE. *	the
Yes	
Is this considered the first report for this substance to the ON MOE TRA? (Please select "Help" for furth clarification) *	er
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	Ð
The substance will be reported as the sum of releases to all media (total of 1 tonne or less).	

Page 26 of 53 Printed on 10/04/2015 4:52:28 PM

Disposals and Off-site Transfers for Recycling
Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal? *
No
Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? *
No
Was the substance transferred off-site for recycling? *
Yes
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 formulation 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) **
61.114
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) **

0.000)
	ou want to use ranges for public reporting? If "No" is selected you are indicating that any report to the c may contain the exact quantity provided. *
No	
Con	ntained in Product
	amount of substance contained in product
Quan	tity (Tonnes) **
50.66	52
	ou want to use ranges for public reporting? If "No" is selected you are indicating that any report to the may contain the exact quantity provided. *
Yes	
Cha	ange in Method of Quantification
	There has been a change in the method or combination of methods used to track and quantify the substance during the previous calendar year
Desci	ribe the changes **
Selec	et the reason for change: **
Desci	ribe how the change impact tracking and quantification of the substance **
Inci	dents out of the normal course of events
П	There have been incidents out of the normal course of events that occurred at the facility during the
_	previous calendar year that affected the results of tracking/quantification of this substance.
Expla	in how tracking and quantifications were affected **
Siar	nificant Process Change
	There has been a significant process change at the facility during the previous calendar year.

Page 28 of 53 Printed on 10/04/2015 4:52:29 PM

On-site Releases		
Click "Edit" to enter your reportable	values.In order to calculate totals, y	ou must click the "Validate" button.
Reasons for Changes in	Quantities Released fro	m Previous Year
Select the applicable reason or rea	sons *	
No significant change (i.e. < 10%)	or no change	
Comments ? (On-Site Releases) **		
Disposals		
Reasons for Changes in	Quantities Disposed from	m Previous Year
Select the applicable reason or rea	sons.	
No significant change (i.e. < 10%)	or no change	
Comments? (Disposals)		
Recycling		
Reasons Why Substance	e Was Recycled	
Select one or more reasons. *		
Production Residues, Off-specifica	tion products	
Off-site Transfers for Re	ecycling	
Click "Edit" to enter your reportable	values.In order to calculate totals, y	ou 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	C - Mass Balance	7.251

entering all transfer quantities, click Assign Disposals / Transfers to Off- Basis of Estimate for Off Enter breakdown values for Recovery of Metals and Metal Com Basis of Estimate C - Mass Balance Quantity (Tonnes) 7.251 Off-site	-site Facilities -sites	
entering all transfer quantities, click Assign Disposals / Transfers to Off- Basis of Estimate for Off Enter breakdown values for Recovery of Metals and Metal Com Basis of Estimate C - Mass Balance Quantity (Tonnes)	-site Facilities -sites	
entering all transfer quantities, click Assign Disposals / Transfers to Off- Basis of Estimate for Off Enter breakdown values for Recovery of Metals and Metal Com Basis of Estimate C - Mass Balance	-site Facilities -sites	
entering all transfer quantities, click Assign Disposals / Transfers to Off- Basis of Estimate for Off Enter breakdown values for Recovery of Metals and Metal Com Basis of Estimate	-site Facilities -sites	
entering all transfer quantities, click Assign Disposals / Transfers to Off- Basis of Estimate for Off Enter breakdown values for Recovery of Metals and Metal Com	-site Facilities -sites	
entering all transfer quantities, click Assign Disposals / Transfers to Off- Basis of Estimate for Off Enter breakdown values for	-site Facilities -sites	
entering all transfer quantities, click Assign Disposals / Transfers to Off- Basis of Estimate for Off	site Facilities	,
entering all transfer quantities, click Assign Disposals / Transfers to Off-	site Facilities	,
entering all transfer quantities, click		,
Then enter the quantity transferred	enter the quantity transferred off-site	e for disposal in the first Quantity box. Intity field. If you need to add an off-
7.251		
Total Quantity Recycled		
Other	NA - Not Applicable	
Refining of Re-use of Used Oil	NA - Not Applicable	
Recovery of Pollution Abatement Residues	NA - Not Applicable	
Recovery of Catalysts	NA - Not Applicable	
	NA - Not Applicable	
Recovery of Acids and Bases		
(not metals) Recovery of Acids and Bases		

Aleris	/.1	84	ON, Ca	orbam Toad, Mississauga ınada
Meridian	0.0	67		own Center 000, Southfield, Michigan,
Total Assigned (mus	t equal total reporte	ed)		
7.251				
Reasons for C	hanges in Qu	uantities Recycle	d from Prev	ious Year
Select the applicable	•	•		
Changes in producti	on levels			
Comments? (Recycli	ing)			
	3,			
Ensure that "Last Re year's reporting to th previous year's repo	ported Quantity" and last year's values rt will be inserted in		population function	ed quantity" reflect curren on, the exact values in you
Ensure that "Last Re year's reporting to the previous year's reporting to the previous year's reporting to the factorial thanks and the factorial thanks are the factorial thanks and the factorial thanks are the factorial thanks are the factorial thanks are thanks.	ported Quantity" and e last year's values are will be inserted in the required to update ility (Use) ility (Use)	.If you selected the pre- to the current year's tem e all values and texts.	population function	ed quantity" reflect current on, the exact values in you he comparison report.
year's reporting to th previous year's repo	ported Quantity" and e last year's values are will be inserted in the required to update ility (Use) ility (Use)	.If you selected the pre- to the current year's tem	population function	ed quantity" reflect curren on, the exact values in you
Ensure that "Last Re year's reporting to the previous year's reporting to the previous year's reporting to the factorial thanks and the factorial thanks are the factorial thanks and the factorial thanks are the factorial thanks are the factorial thanks are thanks are thanks are thanks are thanks are thanks.	eported Quantity" and elast year's values are will be inserted in the required to update ility (Use) Last Reported Quantity	If you selected the pre- to the current year's tem all values and texts. Reporting Period of Last Reported	population function	ed quantity" reflect current on, the exact values in you he comparison report.
Ensure that "Last Re year's reporting to th previous year's repo Therefore, you will be Enters the fac Enters the fac Quantity (Tonnes)	e ported Quantity" and e last year's values are will be inserted in the required to update ility (Use) Last Reported Quantity (Tonnes) *	If you selected the pre- to the current year's tem all values and texts. Reporting Period of Last Reported Quantity *	Change	ed quantity" reflect current on, the exact values in you he comparison report. % Change
Ensure that "Last Re year's reporting to the previous year's reporting to the previous year's reporting to the previous year's reporting to the factors that the factors the factors the factors that the fact	e ported Quantity" and e last year's values are will be inserted in the required to update ility (Use) Last Reported Quantity (Tonnes) *	If you selected the pre- to the current year's tem all values and texts. Reporting Period of Last Reported Quantity *	Change	ed quantity" reflect current on, the exact values in you he comparison report. % Change
Ensure that "Last Re year's reporting to the previous year's reporting the factors the factors the factors the factors that the	e ported Quantity" and e last year's values are will be inserted in the required to update ility (Use) Last Reported Quantity (Tonnes) *	If you selected the pre- to the current year's tem all values and texts. Reporting Period of Last Reported Quantity *	Change	ed quantity" reflect current on, the exact values in you he comparison report. % Change
Ensure that "Last Re year's reporting to th previous year's repo Therefore, you will be Enters the fac Enters the fac Quantity (Tonnes)	e last year's values rt will be inserted in e required to update ility (Use) ility (Use) Last Reported Quantity (Tonnes) * 57.956 Last Reported Quantity	If you selected the pre- to the current year's teme all values and texts. Reporting Period of Last Reported Quantity * 2012 Reporting Period of Last Reported	Change 3.158	ed quantity" reflect current on, the exact values in you he comparison report. % Change 5.45
Ensure that "Last Re year's reporting to the previous year's reporting the factors. Enters the factors are the factors are the factors. Guantity (Tonnes) Creation Quantity (Tonnes) 0.000	e last year's values rt will be inserted in e required to update ility (Use) ility (Use) Last Reported Quantity (Tonnes) * Last Reported Quantity (Tonnes) *	If you selected the pre- to the current year's teme all values and texts. Reporting Period of Last Reported Quantity * 2012 Reporting Period of Last Reported Quantity *	Change Change	ed quantity" reflect curren on, the exact values in you he comparison report. % Change 5.45
Ensure that "Last Re year's reporting to the previous year's reporting the factors. Enters the factors are the factors are the factors are the factors are the factors. Guantity (Tonnes) Creation Quantity (Tonnes)	e last year's values rt will be inserted in e required to update ility (Use) ility (Use) Last Reported Quantity (Tonnes) * 57.956 Last Reported Quantity (Tonnes) *	If you selected the pre- to the current year's teme all values and texts. Reporting Period of Last Reported Quantity * 2012 Reporting Period of Last Reported Quantity *	Change Change	ed quantity" reflect current on, the exact values in you he comparison report. % Change 5.45

Page 31 of 53 Printed on 10/04/2015 4:52:29 PM

	Quantity (Tonnes) *	of Last Reported Quantity *		
50.662	48.866	2012	1.796	3.68
Reasons for C	hange.			
Reasons for C				
Reason(s) for Chang	•			
Increase in production	•			
(please specify)				
previous year's repo	rt will be inserted int	.If you selected the pre- to the current year's tem e all values and texts.	•	on, the exact values in you the comparison report.
Total off-site T	ransfers for R	Recyclina		
Total off-site T			Change	% Change
Total off-site T	ransfers for R Last Reported Quantity	Recycling Reporting Period of Last Reported	Change 4.067	% Change
Total off-site T Quantity (Tonnes) 7.251	ransfers for R Last Reported Quantity (Tonnes) *	Recycling Reporting Period of Last Reported Quantity *		
Total off-site T Quantity (Tonnes) 7.251 Reasons for C	ransfers for R Last Reported Quantity (Tonnes) * 3.184 Change	Recycling Reporting Period of Last Reported Quantity *		
Total off-site T Quantity (Tonnes) 7.251 Reasons for C Reasons for C	ransfers for R Last Reported Quantity (Tonnes) * 3.184 Change Change	Recycling Reporting Period of Last Reported Quantity *		
Total off-site T Quantity (Tonnes) 7.251 Reasons for C Reason(s) for Change	ransfers for R Last Reported Quantity (Tonnes) * 3.184 Change Change	Recycling Reporting Period of Last Reported Quantity *		
Total off-site T Quantity (Tonnes) 7.251 Reasons for C Reason(s) for Change Increase in production	ransfers for R Last Reported Quantity (Tonnes) * 3.184 Change Change	Recycling Reporting Period of Last Reported Quantity *		
Reasons for C Reason(s) for Chang	ransfers for R Last Reported Quantity (Tonnes) * 3.184 Change Change	Recycling Reporting Period of Last Reported Quantity *		
Total off-site T Quantity (Tonnes) 7.251 Reasons for C Reason(s) for Change Increase in production	ransfers for R Last Reported Quantity (Tonnes) * 3.184 Change Change	Recycling Reporting Period of Last Reported Quantity *		
Total off-site T Quantity (Tonnes) 7.251 Reasons for C Reason(s) for Change Increase in production	Transfers for R Last Reported Quantity (Tonnes) * 3.184 Change Change on levels (and its comp	Reporting Period of Last Reported Quantity * 2012		

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? *
No
Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? *
No
Was the substance transferred off-site for recycling? *
Yes

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 formulation 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) **
406.217
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) **
0.000
Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *

Contained in Product

The amount of substance contained in product

Quantity (Tonnes) **

No

380.784
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
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 *
No significant change (i.e. < 10%) or no change
Comments ? (On-Site Releases) **
Disposals
- I

Reasons for Changes in	Quantities Disposed fro	m Previous Year
Select the applicable reason or rea	sons.	
No significant change (i.e. < 10%)	or no change	
Comments? (Disposals)		
Recycling		
Reasons Why Substance	e Was Recycled	
Select one or more reasons. *	·	
Production Residues, Off-specifica	tion products	
Off-site Transfers for Re Click "Edit" to enter your reportable Off-site Transfers	e values.In order to calculate totals, y	ou must click the "Validate" button.
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	C - Mass Balance	14.399
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		
14.399		
Choose the Basis of Estimate and of Then enter the quantity transferred	sfers to Off-site Facilities enter the quantity transferred off-site to each off-site in its respective quantity to each off-site in its respective quantity.	tity field. If you need to add an off-
entering all transfer quantities, click Assign Disposals / Transfers to Off-		screen. when you are finished
Basis of Estimate for Off	f-sites	
Enter breakdown values for		
Recovery of Metals and Metal Com	npounds	
Basis of Estimate		
C - Mass Balance		
Quantity (Tonnes)		
14.399		
Off-site		
Off-Site Name	Quantity (Tonnes)	Address
Aleris	5.320	7496 Torbam Toad, Mississauga, ON, Canada
Meridian	9.079	4000 Town Center Suite 1000, Southfield, Michigan, USA

Total Assigned (must equal total reported)

14.399

Reasons for Changes in Quantities Recycled from Previous Year

Select the applicable reason or reasons *

Changes in production levels

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	(ڊ
--------------------------	----

Enters the facility (Use)

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change	
406.217	549.571	2012	-143.354	-26.08	

Creation

Creation

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

Contained in Product

Contained in Product

Quantity (Tonnes)	Last Reported Quantity (Tonnes) *	Reporting Period of Last Reported Quantity *	Change	% Change	
380.784	528.865	2012	-148.081	-28.00	

Reasons for Change

Reasons for Change

Reason(s) for Change

Decrease in production levels

(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
14.399	10.185	2012	4.214	41.37

Reasons for Change

Reasons for Change

Reason(s) for Change

Increase in production levels

(please specify)

Post Plan Substance Details

NA - 06, Copper (and its compounds)

NA - 06, Copper (and its compounds)

Objectives, Description and Targets

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

Objectives

Objectives in plan: *

Meridian operates the Strathroy facilities with the commitment to minimizing the impacts of the operations on the employees, the environment and the surrounding community. Meridian will continue to pursue options that are technically and economically achievable for the reduction of the use of Copper.

Use Targets

objectives: **

What is the targeted reduction in use of the toxic substance at the facility? * No quantity Quantity Unit target \boxtimes or What is the targeted timeframe for this reduction? * No timeline target years |X|or **Description of Target Creation Targets** What is the targeted reduction in creation of the toxic substance at the facility? * No quantity Quantity Unit target \boxtimes or What is the targeted timeframe for this reduction? * No timeline target years X or Description of targets **Actions** Additional Actions Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance? * No

Page 40 of 53 Printed on 10/04/2015 4:52:31 PM

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

Provide a public summary of the description of the a	additional action taken: **
Reductions due to additional actions	s taken **
The amount of reduction in use of that resulted due to the additional actions.	f the substance at the facility during the reporting period
☐ No Amount	tonnes
The amount of reduction in creation<td>g> of the substance at the facility during the reporting</td>	g> of the substance at the facility during the reporting
☐ No Amount	tonnes
The amount of reduction in the substance c reporting period that resulted due to the additional actions.	contained in product at the facility during the ctions.
☐ No Amount	tonnes
The amount of reduction in release to air<td></td>	
☐ No Amount	tonnes
The amount of reduction in release to water reporting period that resulted due to the additional actions.	
☐ No Amount	tonnes
The amount of reduction in release to land- reporting period that resulted due to additional action	of the substance at the facility during the ns.
☐ No Amount	tonnes
The amount of reduction in the substance c rocks) at the facility during the reporting period that it	disposed on-site (including tailings and waste resulted due to the additional actions.
☐ No Amount	tonnes

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

☐ No Amount			tonnes
The amount of reduction in the reporting period that resulted	e substance red due to the additional act	cycled off-site at ions.	the facility during the
☐ No Amount			tonnes
Amendments			
Amendments			
Were any amendments made	to the toxic substance r	eduction plan during the re	eporting period? *
No			
Description any amendments period **	that were made to the to	oxic substance reduction p	lan during the reporting
Provide a public summary of treduction plan during the repo		nendments that were mad	e to the toxic substance
NA - 09, Manganese (and its	•	unds)	
Objectives, Descript	ion and Targets		
This information is read-only a changes to the information on about updating the plan sumn	this screen, please upd	ate your plan summary an	
Objectives			
Objectives in plan: *			
Meridian operates the Strathr on the employees, the enviro options that are technically ar	nment and the surround	ing community. Meridian v	vill continue to pursue
Use Targets			
What is the targeted	reduction in use	of the toxic substa	ance at the
facility? *			
No quantity target	Quantity	Unit	

\boxtimes	or				
What is the t	targeted	timeframe	for this reduction	n? *	
No timeline targe	et		years		
\boxtimes		or			
Description of Tar	get				
Creation Tar	gets				
What is the tfacility? *	targeted	reduction i	n creation of the	toxic substance at the	
No quantity target		Quantity		Unit	
\boxtimes	or				
What is the t	targeted	timeframe	for this reduction	n? *	
No timeline targe	et		years		
\boxtimes		or			
Description of targ	gets				
Actions					
Additional A	ctions				
Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance? *					
No					
Describe any addi	itional action	ns that were take	en during the reporting p	period to achieve the plan's	

Page 43 of 53 Printed on 10/04/2015 4:52:31 PM

Reductions due to additional actions taken ** The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions. No Amount tonnes The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions. ☐ No Amount tonnes The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions. ☐ No Amount tonnes The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the additional actions. ☐ No Amount tonnes The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the additional actions. □ No Amount tonnes The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions. tonnes □ No Amount The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions. No Amount tonnes The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions. ☐ No Amount tonnes

The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.

☐ No Amount				tonnes
Amendmen	ts			
Amendmen	ts			
Were any amend	lments mad	e to the toxic substance re	eduction plan du	ring the reporting period? *
No				
Description any a period **	amendments	that were made to the to	xic substance re	eduction plan during the reporting
Provide a public reduction plan du	summary of Iring the rep	the description of any amorting period **	endments that v	were made to the toxic substance
NA - 14, Zi NA - 14, Zinc (ar	•	its compounds) ounds)		
Objectives,	Descrip	tion and Targets		
changes to the in	formation o	•	ate your plan su	ent submitted Plan Summary. To make mmary and re-submit. For more details
Objectives				
Objectives in plan	n: *			
on the employee	s, the envir		ng community. I	mizing the impacts of the operations Meridian will continue to pursue tion of the use of Zinc.
Use Targets	3			
What is the	targeted	I reduction in use	of the toxic	substance at the
facility? *				
No quantity target		Quantity		Unit
\boxtimes	or			
What is the	targeted	I timeframe for thi	s reduction	? *
No timeline targ	et	years		

Page 45 of 53 Printed on 10/04/2015 4:52:31 PM

X		or			
Description of Tar	get				
Creation Tar	gets				
What is the t facility? *	argeted	I reduction in	n creation of the	e toxic s	ubstance at the
No quantity target		Quantity		Unit	
\boxtimes	or				
What is the t	argeted	I timeframe	for this reduction	on? *	
No timeline targe	et		years		
\boxtimes		or			
Description of targ	jets				
Actions					
Additional Ad	ctions				
Were there any ac and/or creation of	dditional ac the substa	tions outside the	plan taken during the	reporting pe	riod to reduce the use
No					
Describe any addi objectives: **	tional actio	ns that were take	n during the reporting	period to ad	chieve the plan's
Provide a public s	ummary of	the description o	f the additional action	taken: **	
Reductions of	due to a	dditional ac	tions taken **		
The amount of recthat resulted due t	duction in < o the additi	strong>use <td>ng> of the substance</td> <td>at the facility</td> <th>during the reporting period</th>	ng> of the substance	at the facility	during the reporting period
☐ No Amount					tonnes

Page 46 of 53 Printed on 10/04/2015 4:52:31 PM

The amount of reduction in creation period that resulted due to the additional actions.	of the substance at the fac	cility during the reporting
☐ No Amount		tonnes
The amount of reduction in the substance correporting period that resulted due to the additional action		at the facility during the
☐ No Amount		tonnes
The amount of reduction in release to air<td></td><td>ne facility during the</td>		ne facility during the
☐ No Amount		tonnes
The amount of reduction in release to water reporting period that resulted due to the additional actions.	strong> of the substance a	at the facility during the
☐ No Amount		tonnes
The amount of reduction in release to land<td></td><td>the facility during the</td>		the facility during the
☐ No Amount		tonnes
The amount of reduction in the substance disrocks) at the facility during the reporting period that res		
☐ No Amount		tonnes
The amount of reduction in the substance disrocks) at the facility during the reporting period that res	posed off-site (inc sulted due to the additional	cluding tailings and waste actions.
☐ No Amount		tonnes
The amount of reduction in the substance recreporting period that resulted due to the additional action		the facility during the
☐ No Amount		tonnes
Amendments		
Amendments		

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

s that were mad	e to the toxic substance reduction plan during the reporting
the description orting period **	of any amendments that were made to the toxic substance
	Matter <= 10 Microns Microns
and is pulled di n this screen, pl	rectly from your most recent submitted Plan Summary. To make ease update your plan summary and re-submit. For more details
onment and the	th the commitment to minimizing the impacts of the operations surrounding community. Meridian will continue to pursue y achievable for the reduction of the creation of PM10.
d reduction	in use of the toxic substance at the
Quantity	Unit
d timeframe	e for this reduction? *
	years
or	
	the description forting period ** Particulate te Matter <= 10 tion and Ta and is pulled din this screen, please sees the second and the and economically the second disputation. Quantity d timeframe

Page 48 of 53 Printed on 10/04/2015 4:52:31 PM

Creation Targets					
What is the	targeted	I reduction in	n creation of	the toxic s	ubstance at the
facility? *	_				
No quantity target		Quantity		Unit	
\boxtimes	or				
What is the	targeted	l timeframe	for this redu	ction? *	
No timeline targ	et		years		
\boxtimes		or			
Description of tar	gets				
Actions					
Additional A	ctions				
Were there any a and/or creation of	dditional ac	tions outside the lace? *	plan taken during	the reporting pe	riod to reduce the use
No					
Describe any additional actions that were taken during the reporting period to achieve the plan's objectives: **					
Provide a public summary of the description of the additional action taken: **					
Reductions	due to a	dditional ac	tions taken '	**	
The amount of re that resulted due	duction in < to the additi	strong>useonal actions.	ng> of the substa	nce at the facility	during the reporting period
☐ No Amount					tonnes
The amount of reperiod that resulte				bstance at the fa	acility during the reporting
☐ No Amount					tonnes

The amount of reduction in the substance cor reporting period that resulted due to the additional acti		at the facility during the				
☐ No Amount		tonnes				
The amount of reduction in release to airstrong>release to airstrong>reporting period that resulted due to the additional actions.		ne facility during the				
☐ No Amount		tonnes				
The amount of reduction in release to water reporting period that resulted due to the additional action	strong> of the substance a	at the facility during the				
☐ No Amount		tonnes				
The amount of reduction in release to land<td>trong> of the substance at</td><td>the facility during the</td>	trong> of the substance at	the facility during the				
☐ No Amount		tonnes				
The amount of reduction in the substance dis rocks) at the facility during the reporting period that res						
☐ No Amount		tonnes				
The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.						
☐ No Amount		tonnes				
The amount of reduction in the substance recreporting period that resulted due to the additional acti		the facility during the				
☐ No Amount		tonnes				
Amendments						
Amendments						
Were any amendments made to the toxic substance re	eduction plan during the re	porting period? *				
No						
Description any amendments that were made to the to period **	xic substance reduction pl	an during the reporting				

Page 50 of 53 Printed on 10/04/2015 4:52:32 PM

	nmary of the description of arg the reporting period **	y amendments that were made to the toxic subs	ance
•	12.5 - Particulate Ma Particulate Matter <= 2.5 Mic		
Objectives, De	escription and Targe	ts	
changes to the inform		from your most recent submitted Plan Summary update your plan summary and re-submit. For r Help".	
Objectives			
Objectives in plan: *			
on the employees, the	ne environment and the surro	commitment to minimizing the impacts of the oppunding community. Meridian will continue to pursievable for the reduction of the creation of PM2.5	sue
Use Targets			
	rgeted reduction in u	use of the toxic substance at the	
facility? *			
No quantity target	Quantity	Unit	
X c	Or .		
What is the tar	rgeted timeframe for	this reduction? *	
No timeline target	ye	ars	
X	or		
Description of Target	t		
Creation Targe	ets		
What is the tar	rgeted reduction in o	creation of the toxic substance at	ihe
facility? *			
No quantity target	Quantity	Unit	

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

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

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

Page 53 of 53 Printed on 10/04/2015 4:52:32 PM