Plan Summary Preview	
Company Details	
Company Legal Name:	
Sapa Canada Inc.	
Company Address:	
Report Details	
Facility:	
Toronto Division	
Facility Address:	
7 Alloy Court, Toronto (Ontario)	
Update Comments:	
Activities	
Facility Contacts	
Facility Contacts	
Public Contact:*	
Michael Zorayan	
Highest Ranking Employee:	
Yong Lee	
Person responsible for preparing the toxic substance re	eduction plan:
Michael Zorayan	
Organization Validation	
Company and Parent Company Inform	mation
Company Details	
Company Legal Name:*	Sapa Canada Inc.

Company Trade Name:*

Sapa Canada Inc

Business Number:*	857314058
Mailing Address	
Delivery Mode:	General Delivery
PO Box	
Rural Route Number	
Address Line 1	7 Alloy Court
City*	Toronto
Province/Territory**	Ontario
Postal Code:**	M9M3A2
Physical Address	
Address Line 1	7 alloy Court
City	Toronto
Province/Territory	Ontario
Postal Code	M9M3A2
Additional Information	
Land Survey Description	
National Topographical Description	
Parent Companies	
Sapa AB	
Company Legal Name:*	Sapa AB
Percentage owned:*	100.00
Business Number:*	n/a
Mailing Address	

Delivery Mode:

Suburban Services

PO Box	
Rural Route Number	
Address Line 1	400 Rouser Rd Suite 300
City*	Moon Township
Province/Territory**	Pennsylvania
Postal Code:**	15108
Physical Address	
Address Line 1	Suite 300 - 400 Rouser Road
City	Moon Township
Province/Territory	Pennsylvania
Postal Code	15108
Additional Information	
Land Survey Description	
National Topographical Description	
Facility Validation	
Facility Information	
Facility:*	Toronto Division
NAICS Id:*	331529
NPRI Id:*	000001480
ON Reg 127/01 Id:	
Mailing Address	
Delivery Mode:	Suburban Services
PO Box	
Rural Route Number	

Address Line 1	7 Alloy Court
City*	Toronto
Province/Territory**	Ontario
Postal Code:**	M9M3A2
Physical Address	
Address Line 1	7 Alloy Court
City	Toronto
Province/Territory	Ontario
Postal Code	M9M3A2
Additional Information	
Land Survey Description	
National Topographical Description	
Geographical Address	
Latitude	43.73600
Longitude	-79.53200
UTM Zone**	17
UTM Easting**	618251
UTM Northing**	4843586
Contact Validation	
Contacts	
Public Contact:	
First Name:*	Michael
Last Name:*	Zorayan

Position:*	Environmental, Health & Safety Manager
Telephone:*	4165744933
Ext:	
Fax:	4167431057
Email:*	michael.zorayan@sapagroup.com
Mailing Address	
Delivery Mode:	General Delivery
PO Box	
Rural Route Number	
Address Line 1	7 Alloy Court
City*	North York
Province/Territory**	Ontario
Postal Code:**	M9M 3A2
Highest Ranking Employee:	
First Name:*	John
Last Name:*	Ellertson
Position:*	Plant Manager
Telephone:*	4167431080
Ext:	229
Fax:	4167431057
Email:*	wade.ellertson@sapagroup.com
Mailing Address	

Delivery Mode:

General Delivery

PO Box	
Rural Route Number	
Address Line 1	7 Alloy Court
City*	North York
Province/Territory**	Ontario
Postal Code:**	m9m3a2
Person responsible for the Toxic Sub	stance Reduction Plan preparation:
First Name:*	Michael
Last Name:*	Zorayan
Position:*	Environmental, Health & Safety Manager
Telephone:*	4165744933
Ext:	
Fax:	4167431057
Email:*	michael.zorayan@sapagroup.com
Mailing Address	
Delivery Mode:	General Delivery
PO Box	
Rural Route Number	
Address Line 1	7 Alloy Court
City*	North York
Province/Territory**	Ontario

M9M 3A2

Postal Code:**

Employees

Employees

Number of Full-time Employees:*

53

Substances

1746-01-6, 2,3,7,8-Tetrachlorodibenzo-p-dioxin

1746-01-6, 2,3,7,8-Tetrachlorodibenzo-p-dioxin

Substances Section Data

Statement of Intent

Use

Does the plan include a statement that stipulates the owner or operator's intent to use less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not using less of this substance?**

not used at the facility

Creation

Does the plan include a statement that stipulates the owner or operator's intent to create less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not creating less of this substance?:**

there are no technically feasible option s

Objectives, Targets and Description

Plan Objectives

Objectives in plan:*

none

Toxic Substance Use Targ	gets			
Reduction target:*				
		Quantity	Unit	
⊠ No target	or			
Timeframe target:*				
⊠ No target	or		years	
Description of use targets:				
	т <i>(</i>			
Toxic Substance Creation	largets			
Reduction target:*				
		Quantity	Unit	
⊠ No target	or			
Timeframe target:*				
X No target	or		years	
			yours	
Description of creation targets:				
Reasons for Using this To	vic Substa	nce		
Reasons for Using this To				
This substance is used at the facility:*				
This substance is not used at the faci	lity			
Summarize why this substance is use	d at the facility:	**		
Reasons for Creating this	Toxic Sub	stance		
readents for oreating this				

This substance is created at the facility:*

As a by-product

Summarize why this substance is created at the facility:**

as a combustion byproduct during the melting of contaminated aluminum for recycling

Toxic Reduction Options for Implementation

Toxic substance reduction option(s) to be implemented:

Does the plan specify that no toxic reduction option will be implemented?*

Yes

If 'No', record the option(s) under the appropriate categories below (e.g., Materials or feedstock substitution; Product design or reformulation). If 'Yes', explain why no option will be implemented:**

no technically feasible option

Materials or feedstock substitution

Product design or reformulation

Equipment or process modifications

Spill or leak prevention

On-site reuse, recycling or recovery

Improved inventory management or purchasing techniques

Good operator practice or training

Rationale for choosing these options for implementation:

Summary of actions undertaken outside of the plan to reduce the use and creation of this toxic substance at the facility:

The gases from the scrap furnace are sent to an incinerator for destruction of the dioxins and furans. The gas stream from the incinerator is subject to lime injection which reacts with the dioxins and furans, neutralising and destroying them. The lime is collected in a baghouse in which the bags are also coated with lime.

License number of the toxic substance reduction planner who made the recommendations for this substance (format TSRPXXXX):*

TSRP0092

License number of the toxic substance reduction planner who certified the plan for this substance (format TSRPXXXX):*

TSRP0092

Which version of the plan is reflected in this summary?*

New Plan

19408-74-3, 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

19408-74-3, 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Substances Section Data

Statement of Intent

Use

Does the plan include a statement that stipulates the owner or operator's intent to use less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not using less of this substance?**

no technically feasible options

Creation

Does the plan include a statement that stipulates the owner or operator's intent to create less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not creating less of this substance?:**

no technically feasible options

Objectives, Targets and Description

Plan Objectives

Objectives in plan:*

none

Toxic Substance Use Targets

Reduction target:*

		Quantity	Unit
⊠ No target	or		

Timeframe target:*

⊠ No target	or		years	
Description of use targets:				
Toxic Substance Creation 7	Fargets			
Reduction target:*				
		Quantity	Unit	
⊠ No target	or			
Timeframe target:*				
⊠ No target	or		years	
Description of creation targets:				
Reasons for Using this Tox	ic Substa	ance		
This substance is used at the facility:*				
This substance is not used at the facility	V			

Summarize why this substance is used at the facility:**

Reasons for Creating this Toxic Substance

This substance is created at the facility:*

As a by-product

Summarize why this substance is created at the facility:**

as a combustion byproduct in the melting of contaminated aluminum for recycling

Toxic Reduction Options for Implementation

Toxic substance reduction option(s) to be implemented:

Does the plan specify that no toxic reduction option will be implemented?*

Yes

If 'No', record the option(s) under the appropriate categories below (e.g., Materials or feedstock substitution; Product design or reformulation). If 'Yes', explain why no option will be implemented:**

no technically feasible options

Materials or feedstock substitution

Product design or reformulation

Equipment or process modifications

Spill or leak prevention

On-site reuse, recycling or recovery

Improved inventory management or purchasing techniques

Good operator practice or training

Rationale for choosing these options for implementation:

Summary of actions undertaken outside of the plan to reduce the use and creation of this toxic substance at the facility:

The gases from the scrap furnace are sent to an incinerator for destruction of the dioxins and furans. The gas stream from the incinerator is subject to lime injection which reacts with the dioxins and furans, neutralising and destroying them. The lime is collected in a baghouse in which the bags are also coated with lime.

License number of the toxic substance reduction planner who made the recommendations for this substance (format TSRPXXXX):*

TSRP0092

License number of the toxic substance reduction planner who certified the plan for this substance (format TSRPXXXX):*

TSRP0092

Which version of the plan is reflected in this summary?*

New Plan

3268-87-9, Octachlorodibenzo-p-dioxin

3268-87-9, Octachlorodibenzo-p-dioxin

Substances Section Data

Statement of Intent

Use

Does the plan include a statement that stipulates the owner or operator's intent to use less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not using less of this substance?**

not used

Creation

Does the plan include a statement that stipulates the owner or operator's intent to create less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not creating less of this substance?:**

no technically feasible options

Objectives, Targets and Description

Plan Objectives

Objectives in plan:*

none

Toxic Substance Use Targets

Reduction target:*

		Quantity	Unit	
⊠ No target	or			
Timeframe target:*				
🗙 No target	or		years	
Description of use targets:				

Toxic Substance Creation Targets Reduction target:*

		Quantity	Unit
⊠ No target	or		
Timeframe target:*			
⊠ No target	or		years
Description of creation targets:			
Reasons for Using th	is Toxic Substa	ance	
This substance is used at the f	acility:*		
This substance is not used at	the facility		
Summarize why this substance	e is used at the facility:	**	

Reasons for Creating this Toxic Substance

This substance is created at the facility:*

As a by-product

Summarize why this substance is created at the facility:**

as a combustion byproduct in the melting of contaminated aluminum for recycling

Toxic Reduction Options for Implementation

Toxic substance reduction option(s) to be implemented:

Does the plan specify that no toxic reduction option will be implemented?*

Yes

If 'No', record the option(s) under the appropriate categories below (e.g., Materials or feedstock substitution; Product design or reformulation). If 'Yes', explain why no option will be implemented:**

no technically feasible options

Materials or feedstock substitution

Product design or reformulation

Equipment or process modifications

Spill or leak prevention

On-site reuse, recycling or recovery

Improved inventory management or purchasing techniques

Good operator practice or training

Rationale for choosing these options for implementation:

Summary of actions undertaken outside of the plan to reduce the use and creation of this toxic substance at the facility:

The gases from the scrap furnace are sent to an incinerator for destruction of the dioxins and furans. The gas stream from the incinerator is subject to lime injection which reacts with the dioxins and furans, neutralising and destroying them. The lime is collected in a baghouse in which the bags are also coated with lime.

License number of the toxic substance reduction planner who made the recommendations for this substance (format TSRPXXXX):*

TSRP0092

License number of the toxic substance reduction planner who certified the plan for this substance (format TSRPXXXX):*

TSRP0092

Which version of the plan is reflected in this summary?*

New Plan

35822-46-9, 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

35822-46-9, 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Substances Section Data

Statement of Intent

Use

Does the plan include a statement that stipulates the owner or operator's intent to use less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not using less of this substance?**

not used

Creation

Does the plan include a statement that stipulates the owner or operator's intent to create less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not creating less of this substance?:**

no technically feasible options

Objectives, Targets and Description

Plan Objectives

Objectives in plan:*

none

Toxic Substance Use Targets

Reduction target:*

	Quantity	Unit	
⊠ No target or			
Timeframe target:*			
⊠ No target or		years	
Description of use targets:			
Toxic Substance Creation Targets			
Reduction target:*			

Quantity

Unit

⊠ No target	or	
Timeframe target:*		
⊠ No target	or	years
Description of creation targets:		

Reasons for Using this Toxic Substance

This substance is used at the facility:*

This substance is not used at the facility

Summarize why this substance is used at the facility:**

Reasons for Creating this Toxic Substance

This substance is created at the facility:*

As a by-product

Summarize why this substance is created at the facility:**

as a combustion byproduct in the melting of contaminated aluminum for recycling

Toxic Reduction Options for Implementation

Toxic substance reduction option(s) to be implemented:

Does the plan specify that no toxic reduction option will be implemented?*

Yes

If 'No', record the option(s) under the appropriate categories below (e.g., Materials or feedstock substitution; Product design or reformulation). If 'Yes', explain why no option will be implemented:**

no technically feasible options

Materials or feedstock substitution

Product design or reformulation

Equipment or process modifications

Spill or leak prevention

On-site reuse, recycling or recovery

Improved inventory management or purchasing techniques

Good operator practice or training

Rationale for choosing these options for implementation:

Summary of actions undertaken outside of the plan to reduce the use and creation of this toxic substance at the facility:

The gases from the scrap furnace are sent to an incinerator for destruction of the dioxins and furans. The gas stream from the incinerator is subject to lime injection which reacts with the dioxins and furans, neutralising and destroying them. The lime is collected in a baghouse in which the bags are also coated with lime.

License number of the toxic substance reduction planner who made the recommendations for this substance (format TSRPXXXX):*

TSRP0092

License number of the toxic substance reduction planner who certified the plan for this substance (format TSRPXXXX):*

TSRP0092

Which version of the plan is reflected in this summary?*

New Plan

39001-02-0, Octachlorodibenzofuran

39001-02-0, Octachlorodibenzofuran

Substances Section Data

Statement of Intent

Use

Does the plan include a statement that stipulates the owner or operator's intent to use less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not using less of this substance?**

not used

Creation

Does the plan include a statement that stipulates the owner or operator's intent to create less of this toxic substance at their facility?*

No If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not creating less of this substance?:**

no technically feasible options

Objectives, Targets and Description

Plan Objectives

Objectives in plan:*

none

Toxic Substance Use Targets

Reduction target:*

		Quantity	Unit	
⊠ No target	or			
Timeframe target:*				
⊠ No target	or		years	
Description of use targets:				
Toxic Substance Creation Targ	gets			
Reduction target:*				
		Quantity	Unit	
⊠ No target	or			
Timeframe target:*				

X	No	target
1	110	ungot

or

years

Description of creation targets:

Reasons for Using this Toxic Substance

This substance is used at the facility:*

This substance is not used at the facility

Summarize why this substance is used at the facility:**

Reasons for Creating this Toxic Substance

This substance is created at the facility:*

As a by-product

Summarize why this substance is created at the facility:**

as a combustion byproduct in the melting of contaminated aluminum for recycling

Toxic Reduction Options for Implementation

Toxic substance reduction option(s) to be implemented:

Does the plan specify that no toxic reduction option will be implemented?*

Yes

If 'No', record the option(s) under the appropriate categories below (e.g., Materials or feedstock substitution; Product design or reformulation).If 'Yes', explain why no option will be implemented:**

no technically feasible options

Materials or feedstock substitution

Product design or reformulation

Equipment or process modifications

Spill or leak prevention

On-site reuse, recycling or recovery

Improved inventory management or purchasing techniques

Good operator practice or training

Rationale for choosing these options for implementation:

Summary of actions undertaken outside of the plan to reduce the use and creation of this toxic substance at the facility:

The gases from the scrap furnace are sent to an incinerator for destruction of the dioxins and furans. The gas stream from the incinerator is subject to lime injection which reacts with the dioxins and furans, neutralising and destroying them. The lime is collected in a baghouse in which the bags are also coated with lime.

License number of the toxic substance reduction planner who made the recommendations for this substance (format TSRPXXXX):*

TSRP0092

License number of the toxic substance reduction planner who certified the plan for this substance (format TSRPXXXX):*

TSRP0092

Which version of the plan is reflected in this summary?*

New Plan

39227-28-6, 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

39227-28-6, 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Substances Section Data

Statement of Intent

Use

Does the plan include a statement that stipulates the owner or operator's intent to use less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not using less of this substance?**

not used

Creation

Does the plan include a statement that stipulates the owner or operator's intent to create less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not creating less of this substance?:**

no technically feasible options

Objectives, Targets and Description

Plan Objectives

Objectives in plan:*

none

Toxic Substance Use Targets

Reduction target:*

		Quantity	Unit
⊠ No target	or		
Timeframe target:*			
⊠ No target	or		years
Description of use targets:			
Toxic Substance Creation Targ	ets		
Reduction target:*			
		Quantity	Unit
⊠ No target	or		
Timeframe target:*			
⊠ No target	or		years

Description of creation targets:

Reasons for Using this Toxic Substance

This substance is used at the facility:*

This substance is not used at the facility

Summarize why this substance is used at the facility:**

Reasons for Creating this Toxic Substance

This substance is created at the facility:*

As a by-product

Summarize why this substance is created at the facility:**

as a byproduct in the melting of contaminated aluminum for recycling

Toxic Reduction Options for Implementation

Toxic substance reduction option(s) to be implemented:

Does the plan specify that no toxic reduction option will be implemented?*

Yes

If 'No', record the option(s) under the appropriate categories below (e.g., Materials or feedstock substitution; Product design or reformulation). If 'Yes', explain why no option will be implemented:**

no technically feasible options

Materials or feedstock substitution

Product design or reformulation

Equipment or process modifications

Spill or leak prevention

On-site reuse, recycling or recovery

Improved inventory management or purchasing techniques

Good operator practice or training

Rationale for choosing these options for implementation:

Summary of actions undertaken outside of the plan to reduce the use and creation of this toxic substance at the facility:

The gases from the scrap furnace are sent to an incinerator for destruction of the dioxins and furans. The gas stream from the incinerator is subject to lime injection which reacts with the dioxins and furans, neutralising and destroying them. The lime is collected in a baghouse in which the bags are also coated with lime.

License number of the toxic substance reduction planner who made the recommendations for this

substance (format TSRPXXXX):*

TSRP0092

License number of the toxic substance reduction planner who certified the plan for this substance (format TSRPXXXX):*

TSRP0092

Which version of the plan is reflected in this summary?*

New Plan

40321-76-4, 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

40321-76-4, 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Substances Section Data

Statement of Intent

Use

Does the plan include a statement that stipulates the owner or operator's intent to use less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not using less of this substance?**

not used

Creation

Does the plan include a statement that stipulates the owner or operator's intent to create less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not creating less of this substance?:**

no technically feasible options

Objectives, Targets and Description

Plan Objectives

Objectives in plan:*

none

Toxic Substance Use Targets

Reduction target:*

		Quantity	Unit
⊠ No target	or		
Timeframe target:*			
⊠ No target	or		years
Description of use targets:			
Toxic Substance Creation T	argets		
Reduction target:*			
		Quantity	Unit
X No target	or		
Timeframe target:*			
X No target	or		years
Description of creation targets:			
Reasons for Using this Toxi	c Subeta		
-		IIICE	
This substance is used at the facility:*			
This substance is not used at the facility			
Summarize why this substance is used a	t the facility	**	

Reasons for Creating this Toxic Substance

This substance is created at the facility:*

As a by-product

Summarize why this substance is created at the facility:**

as a byproduct of melting contaminated aluminum for recycling

Toxic Reduction Options for Implementation

Toxic substance reduction option(s) to be implemented:

Does the plan specify that no toxic reduction option will be implemented?*

Yes

If 'No', record the option(s) under the appropriate categories below (e.g., Materials or feedstock substitution; Product design or reformulation). If 'Yes', explain why no option will be implemented:**

no technically feasible options

Materials or feedstock substitution

Product design or reformulation

Equipment or process modifications

Spill or leak prevention

On-site reuse, recycling or recovery

Improved inventory management or purchasing techniques

Good operator practice or training

Rationale for choosing these options for implementation:

Summary of actions undertaken outside of the plan to reduce the use and creation of this toxic substance at the facility:

The gases from the scrap furnace are sent to an incinerator for destruction of the dioxins and furans. The gas stream from the incinerator is subject to lime injection which reacts with the dioxins and furans, neutralising and destroying them. The lime is collected in a baghouse in which the bags are also coated with lime.

License number of the toxic substance reduction planner who made the recommendations for this substance (format TSRPXXXX):*

TSRP0092

License number of the toxic substance reduction planner who certified the plan for this substance (format TSRPXXXX):*

TSRP0092

Which version of the plan is reflected in this summary?*

New Plan

51207-31-9, 2,3,7,8-Tetrachlorodibenzofuran

51207-31-9, 2,3,7,8-Tetrachlorodibenzofuran

Substances Section Data

Statement of Intent

Use

Does the plan include a statement that stipulates the owner or operator's intent to use less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not using less of this substance?**

not used

Creation

Does the plan include a statement that stipulates the owner or operator's intent to create less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not creating less of this substance?:**

no technically feasible options

Objectives, Targets and Description

Plan Objectives

Objectives in plan:*

none

Toxic Substance Use Targets

Reduction target:*

		Quantity	Unit
⊠ No target	or		

Timeframe target:*

⊠ No target	or		years	
Description of use targets:				
Toxic Substance Crea	tion Targets			
Reduction target:*				
		Quantity	Unit	
⊠ No target	or			
Timeframe target:*				
⊠ No target	or		years	
Description of creation targets:				
Reasons for Using this	s Toxic Substa	ince		
This substance is used at the factor	cility:*			
This substance is not used at th	e facility			
Summarize why this substance i	is used at the facility:	**		
Reasons for Creating	this Toxic Sub	stance		
This substance is created at the	facility:*			
As a by-product				
Summarize why this substance i	is created at the facil	ity:**		
as a byproduct of melting contai	minated aluminum fo	or recycling		

Toxic Reduction Options for Implementation

Toxic substance reduction option(s) to be implemented:

Does the plan specify that no toxic reduction option will be implemented?*

Yes

If 'No', record the option(s) under the appropriate categories below (e.g., Materials or feedstock substitution; Product design or reformulation). If 'Yes', explain why no option will be implemented:**

no technically feasible options

Materials or feedstock substitution

Product design or reformulation

Equipment or process modifications

Spill or leak prevention

On-site reuse, recycling or recovery

Improved inventory management or purchasing techniques

Good operator practice or training

Rationale for choosing these options for implementation:

Summary of actions undertaken outside of the plan to reduce the use and creation of this toxic substance at the facility:

The gases from the scrap furnace are sent to an incinerator for destruction of the dioxins and furans. The gas stream from the incinerator is subject to lime injection which reacts with the dioxins and furans, neutralising and destroying them. The lime is collected in a baghouse in which the bags are also coated with lime.

License number of the toxic substance reduction planner who made the recommendations for this substance (format TSRPXXXX):*

TSRP0092

License number of the toxic substance reduction planner who certified the plan for this substance (format TSRPXXXX):*

TSRP0092

Which version of the plan is reflected in this summary?*

New Plan

55673-89-7, 1,2,3,4,7,8,9-Heptachlorodibenzofuran

55673-89-7, 1,2,3,4,7,8,9-Heptachlorodibenzofuran

Substances Section Data

Statement of Intent

Use

Does the plan include a statement that stipulates the owner or operator's intent to use less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not using less of this substance?**

not used

Creation

Does the plan include a statement that stipulates the owner or operator's intent to create less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not creating less of this substance?:**

no technically feasible options

Objectives, Targets and Description

Plan Objectives

Objectives in plan:*

none

Toxic Substance Use Targets

Reduction target:*

	Quantity	Unit
⊠ No target	or	
Timeframe target:*		
🗙 No target	or	years
Description of use targets:		

Toxic Substance Creation Targets Reduction target:*

		Quantity	Unit	
⊠ No target	or			
Timeframe target:*				
🗙 No target	or		years	
Description of creation targets:				
Reasons for Using thi	s Toxic Substa	nce		
This substance is used at the fa	acility:*			
This substance is not used at the	ne facility			
Summarize why this substance	is used at the facility:	**		
Reasons for Creating	this Toxic Sub	stance		
This substance is created at the	e facility.*			

As a by-product

Summarize why this substance is created at the facility:**

as a byproduct of the melting of contaminated aluminum for recycling

Toxic Reduction Options for Implementation

Toxic substance reduction option(s) to be implemented:

Does the plan specify that no toxic reduction option will be implemented?*

Yes

If 'No', record the option(s) under the appropriate categories below (e.g., Materials or feedstock substitution; Product design or reformulation). If 'Yes', explain why no option will be implemented:**

no technically feasible options

Materials or feedstock substitution

Product design or reformulation

Equipment or process modifications

Spill or leak prevention

On-site reuse, recycling or recovery

Improved inventory management or purchasing techniques

Good operator practice or training

Rationale for choosing these options for implementation:

Summary of actions undertaken outside of the plan to reduce the use and creation of this toxic substance at the facility:

The gases from the scrap furnace are sent to an incinerator for destruction of the dioxins and furans. The gas stream from the incinerator is subject to lime injection which reacts with the dioxins and furans, neutralising and destroying them. The lime is collected in a baghouse in which the bags are also coated with lime.

License number of the toxic substance reduction planner who made the recommendations for this substance (format TSRPXXXX):*

TSRP0092

License number of the toxic substance reduction planner who certified the plan for this substance (format TSRPXXXX):*

TSRP0092

Which version of the plan is reflected in this summary?*

New Plan

57117-31-4, 2,3,4,7,8-Pentachlorodibenzofuran

57117-31-4, 2,3,4,7,8-Pentachlorodibenzofuran

Substances Section Data

Statement of Intent

Use

Does the plan include a statement that stipulates the owner or operator's intent to use less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not using less of this substance?**

not used

Creation

Does the plan include a statement that stipulates the owner or operator's intent to create less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not creating less of this substance?:**

no technically feasible options

Objectives, Targets and Description

Plan Objectives

Objectives in plan:*

none

Toxic Substance Use Targets

Reduction target:*

	Quantity	Unit
⊠ No target or		
Timeframe target:*		
⊠ No target or		years
Description of use targets:		
Toxic Substance Creation Targets		
Reduction target:*		

Quantity

Unit

⊠ No target	or	
Timeframe target:*		
⊠ No target	or	years
Description of creation targets:		

Reasons for Using this Toxic Substance

This substance is used at the facility:*

This substance is not used at the facility

Summarize why this substance is used at the facility:**

Reasons for Creating this Toxic Substance

This substance is created at the facility:*

As a by-product

Summarize why this substance is created at the facility:**

as a byproduct of melting contaminated aluminum for recycling

Toxic Reduction Options for Implementation

Toxic substance reduction option(s) to be implemented:

Does the plan specify that no toxic reduction option will be implemented?*

Yes

If 'No', record the option(s) under the appropriate categories below (e.g., Materials or feedstock substitution; Product design or reformulation). If 'Yes', explain why no option will be implemented:**

no technically feasible options

Materials or feedstock substitution

Product design or reformulation

Equipment or process modifications

Spill or leak prevention

On-site reuse, recycling or recovery

Improved inventory management or purchasing techniques

Good operator practice or training

Rationale for choosing these options for implementation:

Summary of actions undertaken outside of the plan to reduce the use and creation of this toxic substance at the facility:

The gases from the scrap furnace are sent to an incinerator for destruction of the dioxins and furans. The gas stream from the incinerator is subject to lime injection which reacts with the dioxins and furans, neutralising and destroying them. The lime is collected in a baghouse in which the bags are also coated with lime.

License number of the toxic substance reduction planner who made the recommendations for this substance (format TSRPXXXX):*

TSRP0092

License number of the toxic substance reduction planner who certified the plan for this substance (format TSRPXXXX):*

TSRP0092

Which version of the plan is reflected in this summary?*

New Plan

57117-41-6, 1,2,3,7,8-Pentachlorodibenzofuran

57117-41-6, 1,2,3,7,8-Pentachlorodibenzofuran

Substances Section Data

Statement of Intent

Use

Does the plan include a statement that stipulates the owner or operator's intent to use less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not using less of this substance?**

not used

Creation

Does the plan include a statement that stipulates the owner or operator's intent to create less of this toxic substance at their facility?*

No If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not creating less of this substance?:**

no technically feasible options

Objectives, Targets and Description

Plan Objectives

Objectives in plan:*

none

Toxic Substance Use Targets

Reduction target:*

		Quantity	Unit	
⊠ No target	or			
Timeframe target:*				
⊠ No target	or		years	
Description of use targets:				
Toxic Substance Creation Targ	gets			
Reduction target:*				
		Quantity	Unit	
⊠ No target	or			
Timeframe target:*				

X No target	or	

years

Description of creation targets:

Reasons for Using this Toxic Substance

This substance is used at the facility:*

This substance is not used at the facility

Summarize why this substance is used at the facility:**

Reasons for Creating this Toxic Substance

This substance is created at the facility:*

As a by-product

Summarize why this substance is created at the facility:**

as a byproduct in the melting of contaminated aluminum for recycling

Toxic Reduction Options for Implementation

Toxic substance reduction option(s) to be implemented:

Does the plan specify that no toxic reduction option will be implemented?*

Yes

If 'No', record the option(s) under the appropriate categories below (e.g., Materials or feedstock substitution; Product design or reformulation).If 'Yes', explain why no option will be implemented:**

no technically feasible options

Materials or feedstock substitution

Product design or reformulation

Equipment or process modifications

Spill or leak prevention

On-site reuse, recycling or recovery

Improved inventory management or purchasing techniques

Good operator practice or training

Rationale for choosing these options for implementation:

Summary of actions undertaken outside of the plan to reduce the use and creation of this toxic substance at the facility:

The gases from the scrap furnace are sent to an incinerator for destruction of the dioxins and furans. The gas stream from the incinerator is subject to lime injection which reacts with the dioxins and furans, neutralising and destroying them. The lime is collected in a baghouse in which the bags are also coated with lime.

License number of the toxic substance reduction planner who made the recommendations for this substance (format TSRPXXXX):*

TSRP0092

License number of the toxic substance reduction planner who certified the plan for this substance (format TSRPXXXX):*

TSRP0092

Which version of the plan is reflected in this summary?*

New Plan

57117-44-9, 1,2,3,6,7,8-Hexachlorodibenzofuran

57117-44-9, 1,2,3,6,7,8-Hexachlorodibenzofuran

Substances Section Data

Statement of Intent

Use

Does the plan include a statement that stipulates the owner or operator's intent to use less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not using less of this substance?**

not used

Creation

Does the plan include a statement that stipulates the owner or operator's intent to create less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not creating less of this substance?:**

no technically feasible option

Objectives, Targets and Description

Plan Objectives

Objectives in plan:*

none

Toxic Substance Use Targets

Reduction target:*

		Quantity	Unit
⊠ No target	or		
Timeframe target:*			
X No target	or		years
Description of use targets:			
Toxic Substance Creation Targe	ts		
Reduction target:*			
		Quantity	Unit
⊠ No target	or		
Timeframe target:*			
X No target	or		years
Description of creation targets:			

Reasons for Using this Toxic Substance

This substance is used at the facility:*

This substance is not used at the facility

Summarize why this substance is used at the facility:**

Reasons for Creating this Toxic Substance

This substance is created at the facility:*

As a by-product

Summarize why this substance is created at the facility:**

as a byproduct of the melting of contaminated aluminum for recycling

Toxic Reduction Options for Implementation

Toxic substance reduction option(s) to be implemented:

Does the plan specify that no toxic reduction option will be implemented?*

Yes

If 'No', record the option(s) under the appropriate categories below (e.g., Materials or feedstock substitution; Product design or reformulation). If 'Yes', explain why no option will be implemented:**

no technically feasible options

Materials or feedstock substitution

Product design or reformulation

Equipment or process modifications

Spill or leak prevention

On-site reuse, recycling or recovery

Improved inventory management or purchasing techniques

Good operator practice or training

Rationale for choosing these options for implementation:

Summary of actions undertaken outside of the plan to reduce the use and creation of this toxic substance at the facility:

The gases from the scrap furnace are sent to an incinerator for destruction of the dioxins and furans. The gas stream from the incinerator is subject to lime injection which reacts with the dioxins and furans, neutralising and destroying them. The lime is collected in a baghouse in which the bags are also coated with lime.

License number of the toxic substance reduction planner who made the recommendations for this

substance (format TSRPXXXX):*

TSRP0092

License number of the toxic substance reduction planner who certified the plan for this substance (format TSRPXXXX):*

TSRP0092

Which version of the plan is reflected in this summary?*

New Plan

57653-85-7, 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

57653-85-7, 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Substances Section Data

Statement of Intent

Use

Does the plan include a statement that stipulates the owner or operator's intent to use less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not using less of this substance?**

not used

Creation

Does the plan include a statement that stipulates the owner or operator's intent to create less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not creating less of this substance?:**

no technically feasible options

Objectives, Targets and Description

Plan Objectives

Objectives in plan:*

none

Toxic Substance Use Targets

Reduction target:*

		Quantity	Unit
⊠ No target	or		
Timeframe target:*			
⊠ No target	or		years
Description of use targets:			
Toxic Substance Creation T	argets		
Reduction target:*			
		Quantity	Unit
X No target	or		
Timeframe target:*			
X No target	or		years
Description of creation targets:			
Reasons for Using this Toxi	c Subeta		
-		IIICE	
This substance is used at the facility:*			
This substance is not used at the facility			
Summarize why this substance is used a	t the facility	**	

Reasons for Creating this Toxic Substance

This substance is created at the facility:*

As a by-product

Summarize why this substance is created at the facility:**

as a byproduct of melting contaminated aluminum for recycling

Toxic Reduction Options for Implementation

Toxic substance reduction option(s) to be implemented:

Does the plan specify that no toxic reduction option will be implemented?*

Yes

If 'No', record the option(s) under the appropriate categories below (e.g., Materials or feedstock substitution; Product design or reformulation). If 'Yes', explain why no option will be implemented:**

no technically feasible options

Materials or feedstock substitution

Product design or reformulation

Equipment or process modifications

Spill or leak prevention

On-site reuse, recycling or recovery

Improved inventory management or purchasing techniques

Good operator practice or training

Rationale for choosing these options for implementation:

Summary of actions undertaken outside of the plan to reduce the use and creation of this toxic substance at the facility:

The gases from the scrap furnace are sent to an incinerator for destruction of the dioxins and furans. The gas stream from the incinerator is subject to lime injection which reacts with the dioxins and furans, neutralising and destroying them. The lime is collected in a baghouse in which the bags are also coated with lime.

License number of the toxic substance reduction planner who made the recommendations for this substance (format TSRPXXXX):*

TSRP0092

License number of the toxic substance reduction planner who certified the plan for this substance (format TSRPXXXX):*

TSRP0092

Which version of the plan is reflected in this summary?*

New Plan

60851-34-5, 2,3,4,6,7,8-Hexachlorodibenzofuran

60851-34-5, 2,3,4,6,7,8-Hexachlorodibenzofuran

Substances Section Data

Statement of Intent

Use

Does the plan include a statement that stipulates the owner or operator's intent to use less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not using less of this substance?**

not used

Creation

Does the plan include a statement that stipulates the owner or operator's intent to create less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not creating less of this substance?:**

no technically feasible options

Objectives, Targets and Description

Plan Objectives

Objectives in plan:*

none

Toxic Substance Use Targets

Reduction target:*

		Quantity	Unit
X No target	or		

Timeframe target:*

0				
⊠ No target	or		years	
Description of use targets:				
Toxic Substance Crea	tion Targets			
Reduction target:*				
		Quantity	Unit	
⊠ No target	or			
Timeframe target:*				
🗙 No target	or		years	
Description of creation targets:				
Reasons for Using this	s Toxic Substa	nce		
This substance is used at the factor	cility:*			
This substance is not used at th	e facility			
Summarize why this substance	is used at the facility:	**		
Reasons for Creating	this Toxic Sub	stance		
This substance is created at the	facility:*			
As a by-product				
Summarize why this substance	is created at the facil	ity:**		
as a byproduct of melting contain	minated aluminum fo	r recycling		

Toxic Reduction Options for Implementation

Toxic substance reduction option(s) to be implemented:

Does the plan specify that no toxic reduction option will be implemented?*

Yes

If 'No', record the option(s) under the appropriate categories below (e.g., Materials or feedstock substitution; Product design or reformulation). If 'Yes', explain why no option will be implemented:**

no technically feasible options

Materials or feedstock substitution

Product design or reformulation

Equipment or process modifications

Spill or leak prevention

On-site reuse, recycling or recovery

Improved inventory management or purchasing techniques

Good operator practice or training

Rationale for choosing these options for implementation:

Summary of actions undertaken outside of the plan to reduce the use and creation of this toxic substance at the facility:

The gases from the scrap furnace are sent to an incinerator for destruction of the dioxins and furans. The gas stream from the incinerator is subject to lime injection which reacts with the dioxins and furans, neutralising and destroying them. The lime is collected in a baghouse in which the bags are also coated with lime.

License number of the toxic substance reduction planner who made the recommendations for this substance (format TSRPXXXX):*

TSRP0092

License number of the toxic substance reduction planner who certified the plan for this substance (format TSRPXXXX):*

TSRP0092

Which version of the plan is reflected in this summary?*

New Plan

67562-39-4, 1,2,3,4,6,7,8-Heptachlorodibenzofuran

67562-39-4, 1,2,3,4,6,7,8-Heptachlorodibenzofuran

Substances Section Data

Statement of Intent

Use

Does the plan include a statement that stipulates the owner or operator's intent to use less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not using less of this substance?**

not used

Creation

Does the plan include a statement that stipulates the owner or operator's intent to create less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not creating less of this substance?:**

no technically feasible options

Objectives, Targets and Description

Plan Objectives

Objectives in plan:*

none

Toxic Substance Use Targets

Reduction target:*

	Quantity	Unit	
⊠ No target	or		
Timeframe target:*			
🗙 No target	or	years	
Description of use targets:			

Toxic Substance Creation Targets Reduction target:*

		Quantity	Unit	
⊠ No target	or			
Timeframe target:*				
⊠ No target	or		years	
Description of creation targets	:			
Decementary Liebarth	ia Tavia Cubata			
Reasons for Using th	iis Toxic Substa	nce		
This substance is used at the	facility:*			
This substance is not used at	the facility			
Summarize why this substance	e is used at the facility:	**		
Reasons for Creating	this Toxic Sub	stance		
This substance is created at th	ne facility:*			
As a by-product				

Summarize why this substance is created at the facility:**

as a byproduct of melting contaminated aluminum for recycling

Toxic Reduction Options for Implementation

Toxic substance reduction option(s) to be implemented:

Does the plan specify that no toxic reduction option will be implemented?*

Yes

If 'No', record the option(s) under the appropriate categories below (e.g., Materials or feedstock substitution; Product design or reformulation). If 'Yes', explain why no option will be implemented:**

no technically feasible options

Materials or feedstock substitution

Product design or reformulation

Equipment or process modifications

Spill or leak prevention

On-site reuse, recycling or recovery

Improved inventory management or purchasing techniques

Good operator practice or training

Rationale for choosing these options for implementation:

Summary of actions undertaken outside of the plan to reduce the use and creation of this toxic substance at the facility:

The gases from the scrap furnace are sent to an incinerator for destruction of the dioxins and furans. The gas stream from the incinerator is subject to lime injection which reacts with the dioxins and furans, neutralising and destroying them. The lime is collected in a baghouse in which the bags are also coated with lime.

License number of the toxic substance reduction planner who made the recommendations for this substance (format TSRPXXXX):*

TSRP0092

License number of the toxic substance reduction planner who certified the plan for this substance (format TSRPXXXX):*

TSRP0092

Which version of the plan is reflected in this summary?*

New Plan

70648-26-9, 1,2,3,4,7,8-Hexachlorodibenzofuran

70648-26-9, 1,2,3,4,7,8-Hexachlorodibenzofuran

Substances Section Data

Statement of Intent

Use

Does the plan include a statement that stipulates the owner or operator's intent to use less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not using less of this substance?**

not used

Creation

Does the plan include a statement that stipulates the owner or operator's intent to create less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not creating less of this substance?:**

no technically feasible options

Objectives, Targets and Description

Plan Objectives

Objectives in plan:*

none

Toxic Substance Use Targets

Reduction target:*

	Quantity	Unit
⊠ No target or		
Timeframe target:*		
☑ No target or		years
Description of use targets:		
Toxic Substance Creation Targets		
Reduction target:*		

Quantity

Unit

X No target	or	
Timeframe target:*		
X No target	or	years
Description of creation targets:		

Reasons for Using this Toxic Substance

This substance is used at the facility:*

This substance is not used at the facility

Summarize why this substance is used at the facility:**

Reasons for Creating this Toxic Substance

This substance is created at the facility:*

As a by-product

Summarize why this substance is created at the facility:**

as a byproduct of melting contaminated aluminum for recycling

Toxic Reduction Options for Implementation

Toxic substance reduction option(s) to be implemented:

Does the plan specify that no toxic reduction option will be implemented?*

Yes

If 'No', record the option(s) under the appropriate categories below (e.g., Materials or feedstock substitution; Product design or reformulation). If 'Yes', explain why no option will be implemented:**

no technically feasible options

Materials or feedstock substitution

Product design or reformulation

Equipment or process modifications

Spill or leak prevention

On-site reuse, recycling or recovery

Improved inventory management or purchasing techniques

Good operator practice or training

Rationale for choosing these options for implementation:

Summary of actions undertaken outside of the plan to reduce the use and creation of this toxic substance at the facility:

The gases from the scrap furnace are sent to an incinerator for destruction of the dioxins and furans. The gas stream from the incinerator is subject to lime injection which reacts with the dioxins and furans, neutralising and destroying them. The lime is collected in a baghouse in which the bags are also coated with lime.

License number of the toxic substance reduction planner who made the recommendations for this substance (format TSRPXXXX):*

TSRP0092

License number of the toxic substance reduction planner who certified the plan for this substance (format TSRPXXXX):*

TSRP0092

Which version of the plan is reflected in this summary?*

New Plan

72918-21-9, 1,2,3,7,8,9-Hexachlorodibenzofuran

72918-21-9, 1,2,3,7,8,9-Hexachlorodibenzofuran

Substances Section Data

Statement of Intent

Use

Does the plan include a statement that stipulates the owner or operator's intent to use less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not using less of this substance?**

not used

Creation

Does the plan include a statement that stipulates the owner or operator's intent to create less of this toxic substance at their facility?*

No If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not creating less of this substance?:**

no technically feasible options

Objectives, Targets and Description

Plan Objectives

Objectives in plan:*

none

Toxic Substance Use Targets

Reduction target:*

		Quantity	Unit	
⊠ No target	or			
Timeframe target:*				
⊠ No target	or		years	
Description of use targets:				
Toxic Substance Creation Targ	gets			
Reduction target:*				
		Quantity	Unit	
⊠ No target	or			
Timeframe target:*				

⊠ No target	or	years
Description of creation targets:		

Reasons for Using this Toxic Substance

This substance is used at the facility:*

This substance is not used at the facility

Summarize why this substance is used at the facility:**

Reasons for Creating this Toxic Substance

This substance is created at the facility:*

As a by-product

Summarize why this substance is created at the facility:**

as a byproduct of melting contaminated aluminum for recycling

Toxic Reduction Options for Implementation

Toxic substance reduction option(s) to be implemented:

Does the plan specify that no toxic reduction option will be implemented?*

Yes

If 'No', record the option(s) under the appropriate categories below (e.g., Materials or feedstock substitution; Product design or reformulation).If 'Yes', explain why no option will be implemented:**

no technically feasible options

Materials or feedstock substitution

Product design or reformulation

Equipment or process modifications

Spill or leak prevention

On-site reuse, recycling or recovery

Improved inventory management or purchasing techniques

Good operator practice or training

Rationale for choosing these options for implementation:

Summary of actions undertaken outside of the plan to reduce the use and creation of this toxic substance at the facility:

The gases from the scrap furnace are sent to an incinerator for destruction of the dioxins and furans. The gas stream from the incinerator is subject to lime injection which reacts with the dioxins and furans, neutralising and destroying them. The lime is collected in a baghouse in which the bags are also coated with lime.

License number of the toxic substance reduction planner who made the recommendations for this substance (format TSRPXXXX):*

TSRP0092

License number of the toxic substance reduction planner who certified the plan for this substance (format TSRPXXXX):*

TSRP0092

Which version of the plan is reflected in this summary?*

New Plan

NA - 09, Manganese (and its compounds)

NA - 09, Manganese (and its compounds)

Substances Section Data

Statement of Intent

Use

Does the plan include a statement that stipulates the owner or operator's intent to use less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not using less of this substance?**

manganese is used in incoming metal alloys and is an essential component of the final product

Creation

Does the plan include a statement that stipulates the owner or operator's intent to create less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not creating less of this substance?:**

not created

Objectives, Targets and Description

Plan Objectives

Objectives in plan:*

none

Toxic Substance Use Targets

Reduction target:*

		Quantity	Unit	
⊠ No target	or			
Timeframe target:*				
⊠ No target	or		years	
Description of use targets:				
Toxic Substance Creation Ta	argets			
Reduction target:*				
		Quantity	Unit	
⊠ No target	or			
Timeframe target:*				
⊠ No target	or		years	

Description of creation targets:

Reasons for Using this Toxic Substance

This substance is used at the facility:*

As a formulation component

Summarize why this substance is used at the facility:**

manganese is an essential component in aluminum alloys

Reasons for Creating this Toxic Substance

This substance is created at the facility:*

This substance is not created at the facility

Summarize why this substance is created at the facility:**

Toxic Reduction Options for Implementation

Toxic substance reduction option(s) to be implemented:

Does the plan specify that no toxic reduction option will be implemented?*

Yes

If 'No', record the option(s) under the appropriate categories below (e.g., Materials or feedstock substitution; Product design or reformulation). If 'Yes', explain why no option will be implemented:**

no technically feasible options

Materials or feedstock substitution

Product design or reformulation

Equipment or process modifications

Spill or leak prevention

On-site reuse, recycling or recovery

Improved inventory management or purchasing techniques

Good operator practice or training

Rationale for choosing these options for implementation:

Summary of actions undertaken outside of the plan to reduce the use and creation of this toxic substance at the facility:

none

License number of the toxic substance reduction planner who made the recommendations for this substance (format TSRPXXXX):*

TSRP0092

License number of the toxic substance reduction planner who certified the plan for this substance (format TSRPXXXX):*

TSRP0092

Which version of the plan is reflected in this summary?*

New Plan

NA - 06, Copper (and its compounds)

NA - 06, Copper (and its compounds)

Substances Section Data

Statement of Intent

Use

Does the plan include a statement that stipulates the owner or operator's intent to use less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not using less of this substance?**

cooper is an essential component in aluminum alloys

Creation

Does the plan include a statement that stipulates the owner or operator's intent to create less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not creating less of this substance?:**

not created

Objectives, Targets and Description

Plan Objectives

Objectives in plan:*

none

Toxic Substance Use Tar	gets			
Reduction target:*				
		Quantity	Unit	
⊠ No target	or			
Timeframe target:*				
⊠ No target	or		years	
Description of use targets:				
Toxic Substance Creatior	n Targets			
Reduction target:*				
		Quantity	Unit	
⊠ No target	or			
Timeframe target:*				
⊠ No target	or		years	
Description of creation targets:				
Reasons for Using this To	oxic Substa	ince		
This substance is used at the facility:				
As a formulation component				
Summarize why this substance is use	ed at the facility:	**		
as an essential component of alumin	ium alloys			
Reasons for Creating this	Toxic Sub	stance		
This substance is created at the facili				

This substance is not created at the facility

Summarize why this substance is created at the facility:**

Toxic Reduction Options for Implementation

Toxic substance reduction option(s) to be implemented:

Does the plan specify that no toxic reduction option will be implemented?*

Yes

If 'No', record the option(s) under the appropriate categories below (e.g., Materials or feedstock substitution; Product design or reformulation). If 'Yes', explain why no option will be implemented:**

no technically feasible options

Materials or feedstock substitution

Product design or reformulation

Equipment or process modifications

Spill or leak prevention

On-site reuse, recycling or recovery

Improved inventory management or purchasing techniques

Good operator practice or training

Rationale for choosing these options for implementation:

Summary of actions undertaken outside of the plan to reduce the use and creation of this toxic substance at the facility:

none

License number of the toxic substance reduction planner who made the recommendations for this substance (format TSRPXXXX):*

TSRP0092

License number of the toxic substance reduction planner who certified the plan for this substance (format TSRPXXXX):*

TSRP0092

Which version of the plan is reflected in this summary?*

New Plan

NA - 04, Chromium (and its compounds)

NA - 04, Chromium (and its compounds)

Substances Section Data

Statement of Intent

Use

Does the plan include a statement that stipulates the owner or operator's intent to use less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not using less of this substance?**

chromium is an essential element of the finished product

Creation

Does the plan include a statement that stipulates the owner or operator's intent to create less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not creating less of this substance?:**

not created

Objectives, Targets and Description

Plan Objectives

Objectives in plan:*

none

Toxic Substance Use Targets

Reduction target:*

		Quantity	Unit
⊠ No target	or		

Timeframe target:*

⊠ No target	or	years
Description of use targets:		
Toxic Substance Creation	n Targets	
Reduction target:*		
	Quantity	Unit
⊠ No target	or	
Timeframe target:*		
⊠ No target	or	years
Description of creation targets:		
Reasons for Using this T	oxic Substance	
This substance is used at the facility	.* ·	
As a formulation component		
Summarize why this substance is us	ed at the facility:**	
as an essential component of alumi	num alloys	
Reasons for Creating this	s Toxic Substance	
This substance is created at the faci		
This substance is not created at the	facility	
Summarize why this substance is cr	eated at the facility:**	
Toxic Reduction Options	for Implementation	
Toxic substance reductio	n option(s) to be imr	plemented:

Does the plan specify that no toxic reduction option will be implemented?*

Yes

If 'No', record the option(s) under the appropriate categories below (e.g., Materials or feedstock substitution; Product design or reformulation). If 'Yes', explain why no option will be implemented:**

no technically feasible options

Materials or feedstock substitution

Product design or reformulation

Equipment or process modifications

Spill or leak prevention

On-site reuse, recycling or recovery

Improved inventory management or purchasing techniques

Good operator practice or training

Rationale for choosing these options for implementation:

Summary of actions undertaken outside of the plan to reduce the use and creation of this toxic substance at the facility:

none

License number of the toxic substance reduction planner who made the recommendations for this substance (format TSRPXXXX):*

TSRP0092

License number of the toxic substance reduction planner who certified the plan for this substance (format TSRPXXXX):*

TSRP0092

Which version of the plan is reflected in this summary?*

New Plan

118-74-1, Hexachlorobenzene

118-74-1, Hexachlorobenzene

Substances Section Data

Statement of Intent

Use

Does the plan include a statement that stipulates the owner or operator's intent to use less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not using less of this substance?**

not used

Creation

Does the plan include a statement that stipulates the owner or operator's intent to create less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not creating less of this substance?:**

no technically feasible options

Objectives, Targets and Description

Plan Objectives

Objectives in plan:*

none

Toxic Substance Use Targets

Reduction target:*

		Quantity	Unit	
⊠ No target	or			
Timeframe target:*				
🔀 No target	or		years	
Description of use targets:				

Toxic Substance Creation Targets

Reduction target:*

		Quantity	Unit	
⊠ No target	or			
Timeframe target:*				
🗙 No target	or		years	
Description of creation targets:				
Reasons for Using this To	oxic Substa	ince		

This substance is used at the facility:*

This substance is not used at the facility

Summarize why this substance is used at the facility:**

Reasons for Creating this Toxic Substance

This substance is created at the facility:*

As a by-product

Summarize why this substance is created at the facility:**

as a byproduct of melting contaminated aluminum for recycling

Toxic Reduction Options for Implementation

Toxic substance reduction option(s) to be implemented:

Does the plan specify that no toxic reduction option will be implemented?*

Yes

If 'No', record the option(s) under the appropriate categories below (e.g., Materials or feedstock substitution; Product design or reformulation). If 'Yes', explain why no option will be implemented:**

no technically feasible options

Materials or feedstock substitution

Product design or reformulation

Equipment or process modifications

Spill or leak prevention

On-site reuse, recycling or recovery

Improved inventory management or purchasing techniques

Good operator practice or training

Rationale for choosing these options for implementation:

Summary of actions undertaken outside of the plan to reduce the use and creation of this toxic substance at the facility:

The gases from the scrap furnace are sent to an incinerator for destruction of the hexachlorobenzene. The gas stream from the incinerator is subject to lime injection which reacts with the hexachlorobenzene, neutralising and destroying them. The lime is collected in a baghouse in which the bags are also coated with lime.

License number of the toxic substance reduction planner who made the recommendations for this substance (format TSRPXXXX):*

TSRP0092

License number of the toxic substance reduction planner who certified the plan for this substance (format TSRPXXXX):*

TSRP0092

Which version of the plan is reflected in this summary?*

New Plan

Canada

Report Preview Company Details Name: Sapa Canada Inc. Address: **Report Details** Report Status: Submitted Reporting Period: 2012 Facility Name: Toronto Division Facility Address: 7 Alloy Court, Toronto (Ontario) Update Comments: Activity Details Applicable Programs Please select all of the programs to which this facility is reporting. **Environment Canada Programs** Ð NPRI - National Pollutant Release Inventory Partnering Programs 7 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 **Facility Contacts** Please assign the appropriate contact under each category below. Technical Contact:* Michael Zorayan Certifying Official (or authorized delegate):* John Ellertson Company Coordinator (optional): Michael Zorayan Public Contact (optional): Michael Zorayan Contractor Contact (optional): Satyanand Goolsarran

If you are an independent contractor or consultant, please enter your company name in the field below: Exp Services Inc.

Employees and Activities

Employees

Number of Employees*

53

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)*

Smelting of secondary aluminum

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)?*

Yes

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

No

Operating Schedule - Days of the Week**

Mon	Tue	Wed	Thu	Fri	Sat	Sun
F	17	Ē	F	17	F	1

Operating Schedule - Hours**

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

Shutdown Periods**

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

General Comments for Facility

Comments:

Verify Facility Information

The information in this section was copied from the Single Window Information Manager (SWIM) at the time the plan summary was increated. Please verify the information and update it where required. Please note that any changes made here will only be reflected in this plan summary. To ensure updates reflected in future reports, please ensure the information is updated in SWIM. After making updates in SWIM, return here and click the "Refresh" button to trigger a reload of the SWIM information. Please note all previously entered data will be modified, the UTM coordinates are required on this screen. **Company Information**

Company Legal Name	
Sapa Canada Inc.	
Business Number	
857314058	
Mailing Address	
Delivery Mode:	
General Delivery	
PO Eox	
Rural Route Number	
Address Line 1	
7 Alloy Court	
City *	
Toronto	
Province/Territory**	
Ontario	
Postal Code: **	
M9M3A2	
Country *	
Canada	
Facility Information	
Facility*	
Toronto Division	
NAICS Id*	
331529	
NPRI ID*	
0000001480	
Physical Address	, ,
Address Line 1	
7 Alloy Court	
City	
Toronto	
Province/Territory	
Ontario	
Postal Code	
M9M3A2	
Country	
Canada	
Additional Information	

Land Survey Description
National Topographical Description
Geographical Address
Latitude
43.73600
Longitude
-79.53200

-79.53200	
UTM Zone	
17	
UTM Easting	
618216.80	

WHATHANA	•	
4843598.72		
4843598.72	and the second sec	

Facility Contacts

1

act Types				
sure you assign a position title to all the selected contacts. P schnical Contact	ress the "+" to ex	pand the contact boxe	25.	
First Name:*				
Michael				
Last Name:*				
Zorayan				
Position:*				
Environmental Coordinator				
Telephone:*				
4165744933				
Ext:				
Fax:				
4167431057				
Email:*				
michael.zorayan@sapagroup.com Mailing Address				
Delivery Mode:				
General Delivery				
PO Box				
Rural Route Number				
Address Line 1				
7 - Ailoy Court				
City*				
North York				
Province/Territory **				
Ontario				
Postal Code: **				
M9M 3A2				
Country*				
Canada				
tifying Official				
First Name:*				
John				
Last Name:*				
Ellertson				
Position:*				
the term of the Armonic sector and the sector sec				
Manager				
Telephone: 4				
4167431080				
Ext:				
229				
Fax:				
4167431057				
Email:*				
wade.ellertson@sapagroup.com				

I British British and the second se

Bearteranner BelæidesCourt West	General Delivery
General Delivery	
or First Namenator	
Michael	
Last Name:*	
Zorayan	
Position:*	
Environmental Coordinator	
Telephone:*	
4165744933	
Ext:	
Fax:	
4167431057	
Email;*	
michael.zorayan@sapzgroup.com	
MailidelAvergatode:	
General Delivery	
PO Box	
Rural Route Number	
Address Line 1	
7 - Alloy Court	
City≭	
North York	
Province/Territory**	
Ontario	
Postal Code:**	
M9M 3A2	
Country *	
Canada	
ntractor Contact First Name:	
Satyanand	
Last Name:*	
Goolsarran Position:*	
Environmental Scientist	
Telephone:*	
Telephone:* 9057939809	
9057939809 Ext: 2530	
9057939809 Ext: 2530 Fax:	
9057939809 Ext: 2530	
9057939809 Ext: 2530 Fax:	
9057939809 Ext: 2530 Fax:	
9057939809 Ext: 2530 Fax: Email:* satyanand.goolsarran@exp.com	
9057939809 Ext: 2530 Fax: Ernail:* satyanand.goolsarran@exp.com Mailing Address Delivery Mode:	
9057939809 Ext: 2530 Fax: Email:* satyanand.goolsarran@exp.com Mailing Address Delivery Mode: General Delivery	
9057939809 Ext: 2530 Fax: Ernail:* satyanand.goolsarran@exp.com Mailing Address Delivery Mode: General Delivery	

Report Preview

	енулахидного ало у	
	Casa46hark Boulevard	
Public C	ontact	
Firs	t Name: *	
541	chael	
Las	t Name:*	
Zo	rayan	
Pos	ition:*	
En	vironmental Coordinator	
Tele	phone:*	
41	65744933	
Ext		
Fax	:	
41	67431057	
Ema	all:*	
	chael.zorayan@sapagroup.com	
Mailii	ng Address	
I	Delivery Mode:	
	General Delivery	
۶	PO Box	
-		
F -	Rural Route Number	
-		
4	Address Line 1	
	7 - Alloy Court	
(īty*	
	North York	
f	rovince/Territory**	
	Ontario	
F	ostal Code:**	
	M9M 3A2	
-	Country *	
-	Canada	
onment	al Regulations or Permits	
rmits		
ON20468	01	
	nber or Permit Number	
	N12046801	:
Gov	ernment Department, Agency, or Program Name	
4	linistry of Environment, HWIN	¬ :
8966-6X/		
Nun	ber or Permit Number	_
8	966-6KAL8U	··
Gov	ernment Department, Agency, or Program Name	
	linistry of Environment, Certificate of Approval	
ħ	initially of Environmently certaicore of hipprovat	
_*		=

Does the facility have a documented facility-wide pollution prevention plan?*

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.

18-74-1, Hexachlorobenzene				
Substance Reporting Status Applicable Programs				
Please select the program statu	15.			
NPRI				
Does this substance meet the reporting of this substance to	e criteria specified in the Can) the NPRI*	aada Gazette notice? Sele	ting "No" indicates voluntary	
Comments				
: :				
General Information				
On-site Releases to the Environment				
Indicate if there were On-site	Releases, Disposals or Off-e	site Transfers to the envir	onment by choosing Yes or No	
from the drop-down boxes be On-site Releases to the Environme	eside the questions below.			,
Was the substance released	on-site?*			
Yes				
Disposals and Cff-site Transfers fo	or Recycling			
Was the substance disposed	l of (on-site or off-site), or tr	ansferred for treatment p	rior to final discosal?*	
No			·	
Is the facility required to rep	 port on disposals of tailings a	and waste rock for the sei	acted reporting period?*	
No				
Was the substance transferr	 ed off-site for recycling?*			
No				
Nature of Activities*	—			
Indicate whether the substance	was manufactured processs	ad or otherwise used by	piecting the esture of such	
activities.	thas manactured, processe	sa, or otherwise used, by	selecting the nature of such	
Manufacture the Substance	<u></u>			
As an impurity				
Process the Substance		_		
i 				
Otherwise Use of the Subst	ance			
On-site Releases			······	
Click "Edit" to enter your reportabl	ist click the "Save/Continue	e" button		
In order to calculate totals, you mu Enter the values for releases to air for				
Enter the values for releases to air for	Basis Of Estimate:	Detail Code:	Quantity (Grams)	

lick "Edit" to enter the water bo	bodies for the substance			
Other Non-point Releases Total - Releases to Air 0 er the values for releases to water to lick "Edit" to enter the water bo	NA - Not Applicable			- - -
Total - Releases to Air 0 er the values for releases to water to lick "Edit" to enter the water bo				-
0	bodies for the substance			
ter the values for releases to water t lick "Edit" to enter the water bo	bodies for the substance			
lick "Edit" to enter the water bo				
Click "Edit" to enter the water bo				
	ouy name.			
	Basis Of Estimate:	Detail Code:	Quantity (Grams)	
Direct Discharges	NA - Not Applicable		······································	-
Spills	NA - Not Applicable		· . · · · · · · · · · · · · · · · · · ·	
Leaks	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
RCMN9	NA - Not Applicable		····	:
Total - Releases to Water Bodi	ies			
	<i>u</i>			
······		<u></u>		
er the values for releases to land for	r the substance			
Releases to Land			· · · · · · · · · · · · · · · · · · ·	
	Basis Of Estimate:	Detail Code:	Quantity (Grams)	
Spills	NA - Not Applicable	· · · · · · · · · · · · · · · · · · ·		
Leaks	NA - Not Applicable			
Other	NA - Not Applicable		· · · · · · · · · · · · · · · · · · ·	
			:	
Totai - Releases to Land				
· ·				
Total Quantity Released				
: 0				
• • • • • • • • • • • • • • • • • • •				
akdown of Annual Releases				
ſ				
Distribute Equally				
Quarterly Breakdown*				
Jan - Mar % Ap	or - Jun % Jul - Sep %	Oct - Dec	%	
	i		i	
Total %				
0				
sons for Changes in Quartities Rele	eased from Previous Year			· · ····
Select the applicable reason	or reasons*			
No significant change (i.e. <	10%) or no change			
Comments ? (On-Site Releases)) 			

Disposals	
Reasons for Chang	es in Quantitles Disposed from Previous Year
Select the a	pplicable reason or reasons.
	ant change (i.e. < 10%) or no change
Comments?	(Disposals)
Recycling	
Reasons for Chang	es in Quantities Released from Previous Year
Select the a	pplicable reason or reasons*
No signific	ant change (i.e. < 10%) or no change
Comments?	Recycling)
D/F, Dioxins and	iurane - total
IA - D/F, Dioxins and	
Substance Reportin	
Applicable Program Please select th	e program status,
reporting of t	stance meet the criteria specified in the Canada Gazette notice? Selecting "No" indicates voluntary his substance to the NPRI*
Comments	
Commence	
L	
General Information	
On-site Releases to	the Environment
from the drop	re were On-site Releases, Disposals or Off-site Transfers to the environment by choosing Yes or No -down boxes beside the questions below. I to the Environment
Was the sub	stance released on-site?*
Yes	
Disposals and C	ff-site Transfers for Recycling
Was the sub	stance 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	
No	stance transferred off-site for recycling?*
Nature of Activities Indicate whethe activities.	the substance was manufactured, processed, or otherwise used, by selecting the nature of such
Manufacture	the Substance
NAMES AND ADDRESS OF A DESCRIPTION OF A	duct, As an impurity
Process the	
Process the s	

On-site Releases

Click "Edit" to enter your reportable values. In o<u>rder to calculate</u> totals, you must click the "Save/Continue" button

Stack or Point Releases Storage or Handling Releases Fugitive Releases Spills Other Non-point Releases otal - Releases to Air 0.0121 Dioxins and Furans Breakdown Dioxins and Furans Breakdown Dioxins and Furans Breakdown values I Stack or Point Release Basis Of Estimate: C - Mass Balance Detail Code: Dioxins and Furans Breakdown CAS Number Stack	and Furans	oplicable oplicable oplicable		
Releases Fugitive Releases Spills Other Non-point Releases Dtal - Releases to Air O.0121 Dioxins and Furans Breakdown Dioxins and Furans Breakdown Dioxins and Furans Breakdown values i Stack or Point Release Basis Of Estimate: C - Mass Balance Detail Code: Dioxins and Furans Breakdown	NA - Not Ap	oplicable		
Spills Other Non-point Releases otal - Releases to Air 0.0121 Dioxins and Furans Breakdown Dioxins and Furans Breakdo Basis of Estimate for Dioxins a Enter breakdown values i Stack or Point Release Basis Of Estimate: C - Mass Balance Detail Code: Dioxins and Furans Breakdo	NA - Not Ap NA - Not Ap NA - Not Ap own and Furans	plicable		
Other Non-point Releases Dtal - Releases to Air 0.0121 Dioxins and Furans Breakdown Dioxins and Furans Breakdo Basis of Estimate for Dioxins a Enter breakdown values i Stack or Point Release Basis Of Estimate: C - Mass Balance Detail Code: Dioxins and Furans Breakdo	NA - Not Ap NA - Not Ap own and Furans			
otal - Releases to Air 0.0121 Dioxins and Furans Breakdown Dioxins and Furans Breakdo Basis of Estimato for Dioxins a Enter breakdown values i Stack or Point Release Basis Of Estimate: C - Mass Balance Detail Code: Dioxins and Furans Breakdo	own and Furans for:	plicable		
0.0121 Dioxins and Furans Breakdown Dioxins and Furans Breakdo Basis of Estimate for Dioxins a Enter breakdown values i Stack or Point Release Basis Of Estimate: C - Mass Balance Detail Code: Dioxins and Furans Breakdo	and Furans			
0.0121 Dioxins and Furans Breakdown Dioxins and Furans Breakdo Basis of Estimate for Dioxins a Enter breakdown values i Stack or Point Release Basis Of Estimate: C - Mass Balance Detail Code: Dioxins and Furans Breakdo	and Furans			
Dioxins and Furans Breakdo Basis of Estimate for Dioxins a Enter breakdown values i Stack or Point Release Basis Of Estimate: C - Mass Balance Detail Code:	and Furans			· · · · · · · · · · · · · · · · · · ·
Easis of Estimato for Dioxins a Enter breakdown values i Stack or Point Release Basis Of Estimate: C - Mass Balance Detail Code: Dioxins and Furans Breakdo	and Furans		· · · · · · · · · · · · · · · · · · ·	
Enter breakdown values i Stack or Point Release Basis Of Estimate: C - Mass Balance Detail Code: Dioxins and Furans Breakdo	for:			· · · · · · · · · · · · · · · · · · ·
Stack or Point Release Basis Of Estimate: C - Mass Balance Detail Code: Dioxins and Furans Breakdo	·····			
Basis Of Estimate: C - Mass Balance Detail Code: Dioxins and Furans Breakdo				
C - Mass Balance Detail Code: Dioxins and Furans Breakdo				
Dioxins and Furans Breakd				
Dioxins and Furans Breakd				
Dioxins and Furans Breakde				
CAS Number S	down Substance L	.ist		
	Substance Jame	Quantity (Grams)	Quantity (g TEQ(ET))	
} t	1,2,3,4,6,7,8- Heptachlorodi benzo-p- dioxin	0.0004	0.000004	
H	1,2,3,4,6,7,8- Heptachlorodi benzofuran	0.0003	0.000003	
ł	1,2,3,4,7,8,9- Heptachlorodi benzofuran	0.0001	0.000001	
μ	1,2,3,4,7,8- Hexachlorodib enzo-p-dioxin	0.0007	0.00007	
н	1,2,3,6,7,8- Hexachlorodib enzo-p-dloxin	0.0014	0.00014	
н	1,2,3,7,8,9- Hexachlorodib enzo-p-dioxin	0.0023	0.00023	
н	1,2,3,4,7,8- Hexachlorodib enzofuran	0.0038	0.00038	
н	1,2,3,6,7,8- Hexachlorodib enzofuran	0.0031	0.00031	
н	1,2,3,7,8,9- Hexachlorcdib enzofuran	0.0019	0.00019	
н		0.0003	0.00003	
40321-76-4 1. Pi	2,3,4,6,7,8- Hexachlorodib enzofuran			

57117-41-6 57117-31-4	1,2,3,7,8- Pentachlorodi benzofuran	0.0255	0.001275	- -
57117-31-4				-
	2,3,4,7,8- Pentachlorodi benzofuran	0.0010	0.00050	
1746-01-6	2,3,7,8- Tetrachlorodib enzo-p-dioxin	0.0040	0.0040	-
51207-31-9	2,3,7,8- Tetrachlorodib enzofuran	0.0185	0.00185	-
Total of D/F congeners	(from above) (g 1	EQ(ET))		
0.0121	J			
Total of D/Fs (only if no		/F congeners)	(g TEQ(ET))	
er the values for releases to water bo lick "Edit" to enter the water boo Releases to Water Bodies		nca		
	Basis Of Estima	ite:	Detail Code:	Quantity (g TEQ(ET))
Direct Discharges	NA - Not App	licable	te andres and the family do the state of the	
Spills	NA - Not App			
Leaks	NA - Not App			· · · · · · · · · · · · · · · · ·
	5			
Total - Releases to Water Bodie	-			
Total - Releases to Water Bodie	-			
Total - Releases to Water Bodie				
Totai - Releases to Water Bodie	-			
Total - Releases to Water Bodie				

	Basis Of Estimate:	Detail Code:	Quantity (g TEQ(ET))	
Spills	NA - Not Applicable			
Leaks	NA - Not Applicable			
Other	NA - Not Applicable		 	
otal - Releases to Land				
otal Quantity Released	_			
0.0121				
				,
down of Annual Releases				

.....

Jan - Mar %	Apr - Jun %	Jul - Sep %	Oct - Dec %
25	25	25	25
Total %			
100			
Reasons for Changes in Que	ntities Released from Previo	us Year	
Select the applicabl	e reason or reasons*		
(ge (i.e. < 10%) or no ch	ange	
Comments ? (On-Site	Releases)		
:			
Disposals			
Reasons for Changes in Quar	tities Disposed from Previo	us Year	
Select the applicable	e reason or reasons.		
No significant chan	ge (i.e. < 10%) or no ch	ange	
Comments? (Disposals	5)		
		· · · · · · · · · · · · · · · · · · ·	
Recycling		···· · ····	
Reasons for Changes in Quar	tities Released from Proviou	us Year	
Select the applicable	e reason or reasons*		
No significant chang	ge (i.e. < 10%) or no cha	ange	
Comments? (Recycling)		
A - 06, Copper (and its compo NA - 06, Copper (and its compo			
Substance Reporting Status Applicable Programs	·		
Please select the program	n status		
NPRI	eet the criteria specified	in the Canada Gazette r	notice? Selecting "No" indicates voluntary
Comments			
:			
General Information			
On-site Releases to the Enviro	nateot	·	
Indicate if there were 0	Dn-site Releases, Dispose xes beside the questions	als or Off-site Transfers	to the environment by choosing Yes or No
Was the substance re	leased on-site?*		
Yes			
If the substance was check-box below:	released on-site and the	total quantity released	was less than one tonne, select the
The substance will b Disposals and Off-site Tran	e reported as the sum of sfers for Recycling	f releases to all media (1 	total of 1 tonne or less).
Was the substance dis Yes	sposed of (on-site or off-	site), or transferred for	treatment prior to final disposal?*
	d to sono-t an alternation	of kall(ass and the	of for the colorist constitue of the
is the racility require	u to report on disposals	or tailings and waste ro	ck for the selected reporting period?*

.

Yes ndicate whether the substance was n ctivities.	anufactured, processed, or otherwis	a used, by selecting the nature of such
Manufacture the Substance		
As a by-product, As an impurity		
Process the Substance	· · · · · · · · · · · · · · · · · · ·	
As a reactant	 ,	
Otherwise Use of the Substance		
· · · · · · ·		
te Releases	····	
k "Edit" to enter your reportable valuater to calculate totals, you must clic rder to calculate totals, you must clic er the values for releases to air for the sub- ter the values for releases to air for the sub- ter the values.	k the "Save/Continue" button	
Releases to Air		
	Basis Of Estimate:	Quantity (Tonnes)
Stack or Point Releases	E1 - Site Specific Emission	0.020
	Factors	
Storage or Handling Releases	NA - Not Applicable	
Fugitive Releases	NA - Not Applicable	<u> </u>
Spills	NA - Not Applicable	NER Allandra (n. s. s
Other Non-point Releases	NA - Not Applicable	
	······································	
Total - Releases to Air	······································	
	······································	
Total - Releases to Air	······································	
Total - Releases to Air	·····	
Total - Releases to Air		i
Total - Releases to Air 0.020	or the substance	
Total - Releases to Air 0.020 ar the values for releasos to water bodies f ick "Edit" to enter the water body nar	or the substance	
Total - Releases to Air 0.020	or the substance	
Total - Releases to Air 0.020 ar the values for releasos to water bodies f ick "Edit" to enter the water body nar	or the substance Tre.	Ouantity (Tonnes)
Total - Releases to Air 0.020 ar the values for releasos to water bodies f ick "Edit" to enter the water body nar	or the substance TRE. 	Quantity (Tonnes)
Total - Releases to Air 0.020 ar the values for releases to water bodies f ick "Edit" to enter the water body nar Releases to Water Bodies Direct Discharges	or the substance Tre.	Quantity (Tonnes)
Total - Releases to Air 0.020 ar the values for releases to water bodies f ick "Edit" to enter the water body nar Releases to Water Bodies	or the substance TRE. 	Quantity (Tonnes)
Total - Releases to Air 0.020 ar the values for releases to water bodies f ick "Edit" to enter the water body nar Releases to Water Bodies Direct Discharges Spills	or the substance TRE. Basis Of Estimate: NA - Not Applicable NA - Not Applicable	Quantity (Tonnes)
Total - Releases to Air 0.020 ar the values for releases to water bodies f ick "Edit" to enter the water body nar Releases to Water Bodies Direct Discharges	or the substance пе. Basis Of Estimate: NA - Not Applicable NA - Not Applicable	
Total - Releases to Air 0.020 ar the values for releases to water bodies f ick "Edit" to enter the water body nar Releases to Water Bodies Direct Discharges Spills	or the substance TRE. Basis Of Estimate: NA - Not Applicable NA - Not Applicable	
Total - Releases to Air 0.020 ar the values for releases to water bodies f ick "Edit" to enter the water body nar Releases to Water Bodies Direct Discharges Spills Leaks	or the substance TRE. Basis Of Estimate: NA - Not Applicable NA - Not Applicable	
Total - Releases to Air 0.020 ar the values for releases to water bodies f ick "Edit" to enter the water body nar Releases to Water Bodies Direct Discharges Spills Leaks	or the substance TRE. Basis Of Estimate: NA - Not Applicable NA - Not Applicable	
Total - Releases to Air 0.020 ar the values for releases to water bodies f ick "Edit" to enter the water body nar Releases to Water Bodies Direct Discharges Spills Leaks	or the substance TRE. Basis Of Estimate: NA - Not Applicable NA - Not Applicable	
Total - Releases to Air 0.020 ar the values for releases to water bodies f ick "Edit" to enter the water body nar Releases to Water Bodies Direct Discharges Spills Leaks	or the substance TRE. Basis Of Estimate: NA - Not Applicable NA - Not Applicable NA - Not Applicable	
Total - Releases to Air 0.020 ar the values for releases to water bodies f ick "Edit" to enter the water body nar Releases to Water Bodies Direct Discharges Spilis Leaks Total - Releases to Water Bodies	or the substance TRE. Basis Of Estimate: NA - Not Applicable NA - Not Applicable NA - Not Applicable	
Total - Releases to Air 0.020 ar the values for releases to water bodies f ick "Edit" to enter the water body nar Releases to Water Bodies Direct Discharges Spills Leaks Total - Releases to Water Bodies r the values for releases to land for the su	or the substance TRE. Basis Of Estimate: NA - Not Applicable NA - Not Applicable NA - Not Applicable NA - Not Applicable	
Total - Releases to Air 0.020 ar the values for releases to water bodies f ick "Edit" to enter the water body nar Releases to Water Bodies Direct Discharges Spills Leaks Total - Releases to Water Bodies r the values for releases to land for the su Releases to Land	or the substance TRE. Basis Of Estimate: NA - Not Applicable NA - Not Applicable NA - Not Applicable Stance Basis Of Estimate:	
Total - Releases to Air 0.020 ar the values for releases to water bodies f ick "Edit" to enter the water body nar Releases to Water Bodies Direct Discharges Spills Leaks Total - Releases to Water Bodies r the values for releases to land for the su Releases to Land Spills	or the substance TRE. Basis Of Estimate: NA - Not Applicable NA - Not Applicable NA - Not Applicable NA - Not Applicable	
Total - Releases to Air 0.020 ar the values for releases to water bodies f ick "Edit" to enter the water body nar Releases to Water Bodies Direct Discharges Spills Leaks Total - Releases to Water Bodies r the values for releases to land for the su Releases to Land	or the substance TRE. Basis Of Estimate: NA - Not Applicable NA - Not Applicable NA - Not Applicable Stance Basis Of Estimate:	
Total - Releases to Air 0.020 ar the values for releases to water bodies f ick "Edit" to enter the water body nar Releases to Water Bodies Direct Discharges Spills Leaks Total - Releases to Water Bodies r the values for releases to land for the su Releases to Land Spills	or the substance TRE. Basis Of Estimate: NA - Not Applicable NA - Not Applicable NA - Not Applicable Basis Of Estimate: NA - Not Applicable	

.....

Ereakdown of Annual Releases			·····	
T Distribute Equally				
Quarterly Breakdown*				
Jan - Mar %	Apr - Jun %	Jul - Sep %	Oct - Dec %	
25	25	25	25	
Total %				
100				
Reasons for Changes in Quantil	ties Released from Previo	ous Year		
Select the applicable i	reason or reasons * (i.e. < 10%) or no ch	nange		
Comments ? (On-Site Re	eleases)			
sposals				
Reasons Why Substance Was D	isposed			
Select one or more rea	asons			
Production residues				
Production residues On-site Disposal (excluding Taili Click "Edit" to enter your	ings and Waste Rock) reportable values.	······································		
Production residues On-site Disposal (excluding Tail	ings and Waste Rock) reportable values.	'Save/Continue'' butto	n	
Production residues On-site Disposal (excluding Taili Click "Edit" to enter your In order to calculate totals	ings and Waste Rock} reportable values. s, you must click the "	Of Estimate:	n Quantity (Tonnes)	
Production residues On-site Disposal (excluding Taili Click "Edit" to enter your In order to calculate totals	ings and Waste Rock) reportable values. s, you must click the " Basis C	Of Estimate:		
Production residues On-site Disposal (excluding Tail Click "Edit" to enter your In order to calculate totals On-site Disposal	ings and Waste Rock) reportable values. s, you must click the " Basis C NA -	Of Estimate:		
Production residues On-site Disposal (excluding Tail Click "Edit" to enter your In order to calculate totals On-site Disposal Landfill Land Treatment	ings and Waste Rock) reportable values. s, you must click the " Basis C NA - NA -	Of Estimate: Not Applicable Not Applicable		
Production residues On-site Disposal (excluding Tail Click "Edit" to enter your In order to calculate totals On-site Disposal Landfill	ings and Waste Rock) reportable values. s, you must click the " Basis C NA - NA -	Of Estimate: Not Applicable		
Production residues On-site Disposal (excluding Tail Click "Edit" to enter your In order to calculate totals On-site Disposal Landfill Land Treatment	ings and Waste Rock) reportable values. s, you must click the " Basis C NA - NA - Dn NA -	Of Estimate: Not Applicable Not Applicable		
Production residues On-site Disposal (excluding Taill Click "Edit" to enter your In order to calculate totals On-site Disposal Landfill Land Treatment Underground Injectio	ings and Waste Rock) reportable values. s, you must click the " Basis C NA - NA - Dn NA -	Of Estimate: Not Applicable Not Applicable		
Production residues On-site Disposal (excluding Taill Click "Edit" to enter your In order to calculate totals On-site Disposal Landfill Land Treatment Underground Injectio	ings and Waste Rock) reportable values. s, you must click the " Basis C NA - NA - Dn NA -	Of Estimate: Not Applicable Not Applicable		
Production residues On-site Disposal (excluding Taill Click "Edit" to enter your In order to calculate totals On-site Disposal Landfill Land Treatment Underground Injectio Total - On-site Disposals	ings and Waste Rock) reportable values. s, you must click the " Basis C NA - NA - Dn NA -	Of Estimate: Not Applicable Not Applicable		
Production residues On-site Disposal (excluding Tail Click "Edit" to enter your In order to calculate totals On-site Disposal Landfill Land Treatment Underground Injectio Total - On-site Disposals	ings and Waste Rock) reportable values. s, you must click the " Basis C NA - NA - Dn NA -	Of Estimate: Not Applicable Not Applicable		
Production residues On-site Disposal (excluding Taill Click "Edit" to enter your In order to calculate totals On-site Disposal Landfill Land Treatment Underground Injectio Total - On-site Disposals	ings and Waste Rock) reportable values. s, you must click the " Basis C NA -	Of Estimate: Not Applicable Not Applicable Not Applicable	Quantity (Tonnes)	
Production residues On-site Disposal (excluding Taili Click "Edit" to enter your In order to calculate totals On-site Disposal Landfill Land Treatment Underground Injectio Total - On-site Disposals Cff-site Disposal (excluding Taili Off-site Disposal	ings and Waste Rock) reportable values. s, you must click the " Basis C NA - Basis C Rock) Basis C	Of Estimate: Not Applicable Not Applicable Not Applicable	Quantity (Tonnes)	
Production residues On-site Disposal (excluding Taili Click "Edit" to enter your In order to calculate totals On-site Disposal Landfill Land Treatment Underground Injectio Total - On-site Disposals Cff-site Disposal (excluding Taili Off-site Disposal Landfill	ings and Waste Rock) reportable values. s, you must click the " Basis C NA - Basis C Rock) Basis C	Of Estimate: Not Applicable Not Applicable Not Applicable	Quantity (Tonnes)	
Production residues On-site Disposal (excluding Taili Click "Edit" to enter your In order to calculate totals On-site Disposal Landfill Land Treatment Underground Injectio Total - On-site Disposals Cff-site Disposal (excluding Taili Off-site Disposal	ings and Waste Rock) reportable values. s, you must click the " Basis C NA - NA - NA - NA - NA - NA - RA - Basis C C - M	Of Estimate: Not Applicable Not Applicable Not Applicable	Quantity (Tonnes)	
Production residues On-site Disposal (excluding Taili Click "Edit" to enter your In order to calculate totals On-site Disposal Landfill Land Treatment Underground Injectio Total - On-site Disposals Cff-site Disposal (excluding Taili Off-site Disposal Landfill	ngs and Waste Rock) reportable values. s, you must click the " Basis C NA -	Of Estimate: Not Applicable Not Applicable Not Applicable Df Estimate: lass Balance Not Applicable Not Applicable	Quantity (Tonnes)	
Production residues On-site Disposal (excluding Taili Click "Edit" to enter your In order to calculate totals On-site Disposal Landfill Land Treatment Underground Injectio Total - On-site Disposals Ciff-site Disposal (excluding Taili Off-site Disposal Landfill Land Treatment	ngs and Waste Rock) reportable values. s, you must click the " Basis C NA -	Of Estimate: Not Applicable Not Applicable Not Applicable Df Estimate: ass Balance Not Applicable Not Applicable	Quantity (Tonnes)	
Production residues On-site Disposal (excluding Taili Click "Edit" to enter your In order to calculate totals On-site Disposal Landfill Land Treatment Underground Injectio Total - On-site Disposal Cff-site Disposal Landfill Land Treatment Underground Injectio	ngs and Waste Rock) reportable values. s, you must click the " Basis C NA -	Of Estimate: Not Applicable Not Applicable Not Applicable Of Estimate: lass Balance Not Applicable Not Applicable	Quantity (Tonnes)	
Production residues On-site Disposal (excluding Taili Click "Edit" to enter your In order to calculate totals On-site Disposal Landfill Land Treatment Underground Injectio Total - On-site Disposal Cff-site Disposal Landfill Land Treatment Underground Injectio	ngs and Waste Rock) reportable values. s, you must click the " Basis C NA -	Of Estimate: Not Applicable Not Applicable Not Applicable Dot Applicable Dot Estimate: Lass Balance Not Applicable Not Applicable Not Applicable	Quantity (Tonnes)	

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 green "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

ign Disposals / Transfers to Off-site Facilities	Basis of Estimate for Off-site:
Enter breakdown values for:	
Landfill	
Basis of Estimate	
C - Mass Balance	
Quantity (Tonnes)	
0.184	
Cff-site	
Newalla Corp Fort Erie	·
Off-Site Name	
Newalta Corp Fort Erie	
Quantity (Tonnes)	
0.184	
Address	
1731 Petit Rd.	
Frov	
ON	
City	
Fort Erie	
Country	
Canada	

Cff-site Transfers (excluding Tailings and Waste Rock) Cff-site Transfers for Treatment Prior to Final Disposal

	Basis Of Estimate:	Quantity (Tonnes)
Physical Treatment	NA - Not Applicable	·······
Chemical Treatment	NA - Not Applicable	
Biological Treatment	NA - Not Applicable	······
Incineration / Thermai	NA - Not Applicable	
Municipal Sewage Treatment Plant	NA - Not Applicable	

.....

- - -

Total - Treatment Prior to Final Disposal

Total Quantity	Disposed (All Media)	
0.184		

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)	

.....

Reasons Why Substance Was Recycled

Select one or more reasons.*

Production Residues

Off-site Transfers

Off-site Transfers for Recycling

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

	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	0.032
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	
Cther	NA - Not Applicable	

Total Quantity Recycled

0.032

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 green "+" 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
C - Mass Balance
Quantity (Tonnes)
0.032
Cff-site
Greenway Industries Corp.
Off-Site Name
Greenway Industries Corp.
Quantity (Tonnes)
0.032

Address 35 Freshway Dr.

Prov ON

Ci	ty		
	<u> </u>	 	

Concord -----

Country

Canada
Total Assigned (must equal total reported)
0.032
Reasons for Changes in Quantilies Released from Previous Year
Select the applicable reason or reasons*
No significant change (I.e. < 10%) or no change
Comments? (Recycling)
NA - 04, Chromium (and its compounds)
NA - 04, Chromium (and its compounds)
Substance Reporting Status
Applicable Programs
Please select the program status.
NPRI Does this substance meet the criteria specified in the Canada Gazette notice? Selecting "No" indicates voluntary reporting of this substance to the NPRI*
Comments
Tanana a far a ta t
General Information
On-site Releases to the Environment
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. Cn-site Releases to the Environment
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
Nature of Activities'
Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of such activities.
Manufacture the Substance
As a by-product, As an impurity
Process the Substance
Process the Substance

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Save/Continue" button __Enter the values for releases to air for the substance

	Basis Of Estimate:	Quantity (Tonnes)	
Stack or Point Releases	C - Mass Balance	0,100	
Storage or Handling Releases	NA - Not Applicable		
Fugitive Releases	NA - Not Applicable		
Spills	NA - Not Applicable		
Other Non-point Releases	NA - Not Applicable		
otal - Releases to Air			
0.100			

.....

..

.....

....

Enter the values for releases to water bodies for the substance

Click "Edit" to enter the water body name.

Releases	ło '	Water	Bodies
----------	------	-------	--------

	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 for the substance

Releases to Land				 	
	Basis	Of Estimate:	Quantity (Tonnes)		
Spills	NA	- Not Applicable	·		
Leaks	RA -	- Not Applicable			
Other	NA	- Not Applicable			
Fotal - Releases to La	nđ				
Fotal Quantity Releas	ed				
Fotal Quantity Releas	ed				
	ed			 ·	
0.100				 	
0.100 kdown of Annusl Relea				 	
0.100 kdown of Annusl Relea				 	
Fotal Quantity Releas 0.100 Index of Annual Releas Distribute Equally				 	
0.100				 	
0.100		Jul - Sep %	Oct - Dec %	 	

••••••

Total %		
Reasons for Changes in Quantities Rele	ased from Previous Year	
Select the applicable reason		
No significant change (i.e. <	· ······	
Comments ? (On-Site Releases)		
	······	
posals		
Reasons Why Substance Was Disposed		
Select one or more reasons		
Production residues	······································	
· · · · · · · · · · · · · · · · · · ·		
On-site Disposal (excluding Tailings and	· · · · ·	
Click "Edit" to enter your reportal In order to calculate totals, you m	ne values. ust click the "Save/Continue" butt	on
On-site Disposal		
	Basis Of Estimate:	Quantity (Tonnes)
Landfill	NA - Not Applicable	· · _ · · · · · · · · · · ·
Land Treatment		
Ellio reastene	NA - Not Applicable	
Underground Injection	NA - Not Applicable	
Total - On-site Disposals		
ff-site Disposal (excluding failings and Off-site Disposal		
	Basis Of Estimate:	Quantity (Tonnes)
Landfill	C - Mass Balance	0.023
Land Treatment	NA - Not Applicable	
Underground Injection		
onderground injection	NA - Not Applicable	
Storage	NA - Not Applicable	
Total - Off-site Disposals		
0.023		
Assign Disposals / Transfers to Cl	f-site Facilities	
	and enter the quantity transferred	off alka for dispersed in the first
Quantity box. Then enter the	quantity transferred to each off-sit	e in its respective quantity field. If
you need to add an off-site f	acility to the list, click the green "+" finished entering all transfer quant	" sign to navigate to the off-site
Assign Disposals / Transfers	- ,	
Basis of Estimate for Cff-sites		
Enter breakdown values fi		
Landfill	л.	t t and the
Basis of Estimate		
C - Mass Balance		
Quantity (Tonnes)		
0.023		
Cff-site		
Newalta Corp Fort Eric		

Report Preview

Off-Site Name		
Newalta Corp Fo	rt Erie	
Quantity (Tonnes)		
0.023	·····	
Address		
1731 Petit Rd.		
Prov		
ON		
City		
Fort Erie		
Country		
Canada		
Total Assigned (must equal	total reported)	
0.023		
Cif-site Transfers (excluding Tailings and W.	aste Rock)	
Off-site Transfers for Treatment Prior to 	Final Disposal	
	Basis Of Estimate:	Quant
Physical Treatment	NA - Not Applicab	io

	Basis Of Estimate:	Quantity (Tonnes)	
Physical Treatment	NA - Not Applicable		
Chemical Treatment	NA - Not Applicable		
Biological Treatment	NA - Not Applicable	[
Incineration / Thermal	NA - Not Applicable		
Municipal Sewage Treatment Plant	NA - Not Applicable		
Total - Treatment Prior to Final Dis	posal		
Total Quantity Disposed (All Media)	······		
0.023	an 1/1 anns 1 ann ann 1 an ann 1 a - ann 1 a'		
Select the applicable reason or	reasons,		
Select the applicable reason or No significant change (i.e. < 10°	reasons,		
Select the applicable reason or	reasons,		
Select the applicable reason or No significant change (i.e. < 10% Comments? (Disposals)	reasons,		
Select the applicable reason or No significant change (i.e. < 10% Comments? (Disposals)	reasons,		
Select the applicable reason or No significant change (i.e. < 10% Comments? (Disposals)	reasons,		
Select the applicable reason or No significant change (i.e. < 10% Comments? (Disposals)	reasons,		
Select the applicable reason or No significant change (i.e. < 10% Comments? (Disposals) 	reasons,		
Select the applicable reason or No significant change (i.e. < 10% Comments? (Disposals) 	reasons. %) or no change	Π	
Select the applicable reason or No significant change (i.e. < 10% Comments? (Disposals) 	reasons. %) or no change	η	
No significant change (i.e. < 10% Comments? (Disposals) cling assons Why Substance Was Recycled Select one or more reasons.* Production Residues t-site Transfers for Recycling Click "Edit" to enter your reportable n order to calculate totals, you must	reasons. %) or no change	п Quantity (Tonnes)	

Recovery of Solvents

	NA - Not Applicable	· · · · · · · · · · · · · · · · · · ·	
Recovery of Organic Substances (not solvents)	NA - Not Applicable	· · · · · · · · · · · · · · · · · · ·	
Recovery of Metals and Metal Compounds	C - Mass Balance	0.009	
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			
0.009			
Choose the Basis of Estimate and e Quantity box. Then enter the quan you need to add an off-site facility search screen. When you are finish Assign Disposals / Transfers to Off	tity transferred to each off-site to the list, click the green "+" red entering all transfer quantil	in its respective quantity field. If sign to navigate to the off-site	
Basis of Estimate for Off-sites			
			· · · · · · · · · · · · · · · · · · ·
Enter breakdown values for:	*****	·······	· · · · · · · · · · · · · · · · · · ·
Enter breakdown values for: Recovery of Metals and Meta		······	
Recovery of Metals and Meta		······	
		······	
Recovery of Metals and Meta Basis of Estimate C - Mass Balance		······	
Recovery of Metals and Meta Basis of Estimate		······	
Recovery of Metals and Meta Basis of Estimate C - Mass Balance Quantity (Tonnes)		······	
Recovery of Metals and Meta Basis of Estimate C - Mass Balance Quantity (Tonnes) 0.009		······	
Recovery of Metals and Meta Basis of Estimate C - Mass Balance Quantity (Tonnes) 0.009 Off-site Greenway Industries Corp.		······	
Recovery of Metals and Metal Basis of Estimate C - Mass Balance Quantity (Tonnes) 0.009 Cff-site <u>Creenway Industries Corp.</u> Off-Site Name	f Compounds		
Recovery of Metals and Meta Basis of Estimate C - Mass Balance Quantity (Tonnes) 0.009 Off-site Greenway Industries Corp.	f Compounds	······	
Recovery of Metals and Metal Basis of Estimate C - Mass Balance Quantity (Tonnes) 0.009 Off-site Greenway Industries Corp. Off-Site Name	f Compounds		
Recovery of Metals and Metal Basis of Estimate C - Mass Balance Quantity (Tonnes) 0.009 Off-site Greenway Industries Corp. Off-Site Name Greenway Industries C Quantity (Tonnes)	f Compounds		

.....

ON City

Concord Country -----Canada

Total Assigned (must equal total reported)

0.009

Prov

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? (Recycling)

A - 09, Manganese (and its compounds)	
Substance Reporting Status	
Applicable Programs	
Please select the program status.	
NPRI Does this substance meet the criter reporting of this substance to the N	ia specified in the Canada Gazette notice? Selecting "No" indicates voluntary PRI*
Comments	
General Information	
On-site Releases to the Environment	
Indicate if there were On-site Relea from the drop-down boxes beside th On-site Releases to the Environment	ises, Disposais or Off-site Transfers to the environment by choosing Yes or No he questions below.
Was the substance released on-sit	;e?*
Yes	site and the total quantity released was less than any tagent adject the
check-box below:	site and the total quantity released was less than one tonne, select the
The substance will be reported a	s the sum of releases to all media (total of 1 tonne or less).
Disposals and Cff-site Transfers for Rec	yeling
	n-site or off-site), or transferred for treatment prior to final disposal?*
Yes	
Is the facility required to report or No	n disposals of tailings and waste rock for the selected reporting period?*
Was the substance transferred off-	-site for recycling?*
Yes	
National Contract	
Nature of Activities'	manufactured, processed, or otherwise used, by selecting the nature of such
activities.	menulocured, processed, or other modiased, by selecting the incluse of seen
Manufacture the Substance	na una accountempe un ante da contra cont
As a by-product, As an impurity	
Process the Substance	
As a reactant	
Otherwise Use of the Substance	
On-site Releases	
Click "Edit" to enter your reportable valu In order to calculate totals, you must clid Enter the values for releases to air for the su	ck the "Save/Continue" button
Releases to Air	
	Basis Of Estimate: Quantity (Tonnes)
Stack or Point Releases	C - Mass Balance 0.062
Storage or Handling Releases	NA - Not Applicable
Fugitive Releases	NA - Not Applicable

Total - Releases to Air				
0.062				
			······	
Enter the values for releases	to water bodies for the s	ubstance		
Click "Edit" to enter the	water body name.			
Releases to Water Bodies	à			
	, 			·····
	Basi	is Of Estimate:	Quantity (Tonnes)	
Direct Discharges	NA	- Not Applicable		
Spills	NA	- Not Applicable		
Leaks				
LCUNG	NA	- Not Applicable	· · · ·	
Total - Releases to Wa	ter Bodies			
Enter the values for releases	to land for the substance	}		
Releases to Land				
	Basi	s Of Estimate:	Quantity (Tonnes)	
Spills	NA	- Not Applicable	 	
Leaks				
Leans	<u></u>	- Not Applicable		
Other	NA	- Not Applicable	·	
Tabah Dalaman ka ka s				
Total - Releases to Lan	<u> </u>			
	· · · · · · · · · · · · · · · · · · ·			
Total Quantity Release	d			
0.062			· · · · · · · · · · · · · · · · · · ·	
0.062				
0.062	25			
0.062	es			
0.062	es			
0.062 Breakdown of Annuat Release Distribute Equally	es Apr - Jun %	Jul - Sep %	Oct - Dec %	
0.062 Breskdown of Annust Release C Distribute Equally Quarterly Breskdown*	Apr - Jun %	Jul - Sep % 25	Oct - Dec %	
0.062 Breskdown of Annusi Release [* Distribute Equally Quarterly Breskdown* Jan - Mar %	Apr - Jun %			
0.062 Breskdown of Annual Release Distribute Equally Quarterly Breskdown* Jan - Mar % 25 Total %	Apr - Jun %			
0.062 Breskdown of Annusi Release [** Distribute Equally Quarterly Breskdown* Jan - Mar % 25 Total % 100	Apr - Jun % 25			
0.062 Breskdown of Annust Release Distribute Equally Quarterly Breskdown* Jan - Mar % 25 Total % 100	Apr - Jun % 25	25		
0.062 Breskdown of Annust Release Distribute Equally Quarterly Breskdown* Jan - Mar % 25 Total % 100	Apr - Jun % 25	25vious Year		
0.062 Breskdown of Annusi Release Distribute Equally Quarterly Breskdown* Jan - Mar % 25 Total % 100 Reasons for Changes in Quar Select the applicable	Apr - Jun % 25	25		
0.062 Breskdown of Annust Release Distribute Equally Quarterly Breakdown* Jan - Mar % 25 Total % 100 Reasons for Changes in Quar Select the applicable No significant chang	Apr - Jun % 25 ntitles Released from Pres reason or reasons * re (i.e. < 10%) or no c	25		
0.062 Ereskdown of Annust Release Distribute Equally Quarterly Breakdown* Jan - Mar % 25 Total % 100 Reasons for Changes in Quar Select the applicable	Apr - Jun % 25 ntitles Released from Pres reason or reasons * re (i.e. < 10%) or no c	25		

Select one or more reasons Production residues	a a su ana ana ann ann a su ann. I		
On-site Disposal (excluding Tailings and	Waste Rock)		
Click "Edit" to enter your reportab In order to calculate totals, you m On-site Disposal	ole values. ust click the "Save/Continue" butto	on	
	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			
	Basis Of Estimate:	Quantity (Tonnes)	
Landfill	C - Mass Balance	0.0332	
Land Treatment	NA - Not Applicable	:	
Underground Injection	NA - Not Applicable		
Storage	NA - Not Applicable		
Total - Off-site Disposals 0.0332			
	'		
Assign Disposals / Transfers to Cf	f-site Facilities		
Quantity box. Then enter the you need to add an off-site fa	and enter the quantity transferred quantity transferred to each off-site acility to the list, click the green "+" finished entering all transfer quanti to Off-site Facilities	e in its respective quantity field. If ' sign to navigate to the off-site	
Enter breakdown values fo			
Landfill			
Basis of Estimate			
C - Mass Balance			
Quantity (Tonnes)			
0.0332			
Off-site			
Newalta Corp Fort Eric	3		
Off-Site Name Newalta Corp f			
·			
Quantity (Tonnes)			
<u> </u>			
Address 1731 Petit Rd.			
Prov			
ON			
City			
Fort Erie			

Country

Total Assignedqmust equal total reported)

0.0332

Cff-site Transfers (excluding Tailings and Waste Rock)

	Basis Of Estimate:	Quantity (Tonnes)
Physical Treatment	NA - Not Applicable	
Chemical Treatment	NA - Not Applicable	· · · · · · · · · · · · · · · · · · ·
Biological Treatment	NA - Not Applicable	· .
Incineration / Thermal	NA - Not Applicable	······
Municipal Sewage Treatment Plant	NA - Not Applicable	
Total - Treatment Prior to Final Dispo	sal	
Total Quantity Disposed (All Media)		
0.0332		
<u>No significant change (i.e. < 10%)</u> Comments? (Disposals) cling asons Why Substance Was Recycled	or no change	
Select one or more reasons.*		
Production Residues		
Market advanced and Market and Party of the second		
F-site Transfers for Recycling		
r site Transfers for Recycling Click "Edit" to enter your reportable va n order to calculate totals, you must c		
Click "Edit" to enter your reportable va		
Click "Edit" to enter your reportable va n order to calculate totals, you must c Off-site Transfers		Quantity (Tonnes)
Click " Edit " to enter your reportable va in order to calculate totals, you must c	ick the "Save/Continue" button	Quantity (Tonnes)
lick "Edit" to enter your reportable va n order to calculate totals, you must c Off-site Transfers	lick the "Save/Continue" button Basis Of Estimate:	Quantity (Tonnes)
Click "Edit" to enter your reportable va n order to calculate totals, you must c Off-site Transfers Energy Recovery	Basis Of Estimate:	Quantity (Tonnes)
Click "Edit" to enter your reportable va order to calculate totals, you must c Off-site Transfers Energy Recovery Recovery of Solvents Recovery of Organic Substances	Ick the "Save/Continue" button Basis Of Estimate: NA - Not Applicable NA - Not Applicable	
lick "Edit" to enter your reportable va order to calculate totals, you must c Off-site Transfers Energy Recovery Recovery of Solvents Recovery of Organic Substances (not solvents) Recovery of Metals and Metal	Ick the "Save/Continue" button Basis Of Estimate: NA - Not Applicable NA - Not Applicable NA - Not Applicable	
lick "Edit" to enter your reportable va order to calculate totals, you must c Off-site Transfers Energy Recovery Recovery of Solvents Recovery of Organic Substances (not solvents) Recovery of Metais and Metal Compounds Recovery of Inorganic Materials	Ick the "Save/Continue" button Basis Of Estimate: NA - Not Applicable NA - Not Applicable NA - Not Applicable C - Mass Balance	
Click "Edit" to enter your reportable va n order to calculate totals, you must c Off-site Transfers Energy Recovery Recovery of Solvents Recovery of Organic Substances (not solvents) Recovery of Metals and Metal Compounds Recovery of Inorganic Materials (not metals)	Ick the "Save/Continue" button Basis Of Estimate: NA - Not Applicable NA - Not Applicable C - Mass Balance NA - Not Applicable	
Click "Edit" to enter your reportable va n order to calculate totals, you must c Off-site Transfers Energy Recovery Recovery of Solvents Recovery of Organic Substances (not solvents) Recovery of Metals and Metal Compounds Recovery of Inorganic Materials (not metals) Recovery of Acids and Bases	Ick the "Save/Continue" button Basis Of Estimate: NA - Not Applicable NA - Not Applicable C - Mass Balance NA - Not Applicable NA - Not Applicable NA - Not Applicable	
Click "Edit" to enter your reportable va n order to calculate totals, you must c Off-site Transfers Energy Recovery Recovery of Solvents Recovery of Organic Substances (not solvents) Recovery of Metals and Metal Compounds Recovery of Inorganic Materials (not metals) Recovery of Acids and Bases Recovery of Catalysts Recovery of Pollution Abatement	Ick the "Save/Continue" button Basis Of Estimate: NA - Not Applicable NA - Not Applicable C - Mass Balance NA - Not Applicable NA - Not Applicable NA - Not Applicable	

	0.0223
Assign Disposals / Transfers to Off-site Facililies	
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. you need to add an off-site facility to the list, click the green "+" 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	If
Basis of Estimate for Cff-sites	
Enter breakdown values for:	
Recovery of Metals and Metal Compounds	
Basis of Estimate	
C - Mass Balance	
Quantity (Tonnes)	
0.0223	
Off-site	
Greenway Industries Corp.	
Off-Site Name	
Greenway Industries Corp.	
Quantity (Tonnes) 0.0223	
·	
Address 35 Freshway Dr.	
Prov	
ON	
City	
Concord	
Country	
Canada	
Total Assigned (must equal total reported) 0.0223	
Reasons for Changes in Quantities Released from Previous Year	
Reasons for Changes in Quantities Released from Previous Year Select the applicable reason or reasons *	
Select the applicable reason or reasons*	
Select the applicable reason or reasons* No significant change (i.e. < 10%) or no change	
Select the applicable reason or reasons* No significant change (i.e. < 10%) or no change	
Select the applicable reason or reasons* No significant change (i.e. < 10%) or no change Comments? (Recycling)	
Select the applicable reason or reasons* No significant change (i.e. < 10%) or no change Comments? (Recycling) M09, PM10 - Particulate Matter <= 10 Microns	
Select the applicable reason or reasons* No significant change (i.e. < 10%) or no change Comments? (Recycling) M09, PM10 - Particulate Matter <= 10 Microns A - M09, PM10 - Particulate Matter <= 10 Microns	
Select the applicable reason or reasons* No significant change (i.e. < 10%) or no change Comments? (Recycling) M09, PM10 - Particulate Matter <= 10 Microns A - M09, PM10 - Particulate Matter <= 10 Microns Substance Reporting Status	
Select the applicable reason or reasons* No significant change (i.e. < 10%) or no change	
Select the applicable reason or reasons* No significant change (i.e. < 10%) or no change	
Select the applicable reason or reasons* No significant change (i.e. < 10%) or no change	voluntary
Select the applicable reason or reasons* No significant change (i.e. < 10%) or no change	voluntary
Select the applicable reason or reasons* No significant change (i.e. < 10%) or no change	voluntary

Click	"Edit"	to	enter	your	reportable	١,	/alı	υe	s.		

	Basis Of Estimate:	Quantity (Tonnes)
Stack or Point Releases	E1 - Site Specific Emission Factors	26.7
Storage or Handling Releases	NA - Not Applicable	
Fugitive Releases	NA - Not Applicable	1996 - 1997 - 11 - 11 - 11 - 11 - 11 - 11 -
Spills	NA - Not Applicable	
Other Non-point Releases	NA - Not Applicable	· · · · · · · · · · · · · · · · · · ·
Road Dust	NA - Not Applicable	
al - Releases to Air 26.7		

F 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 %	Cctober %	November %	December %	
8.34	8.33	8.33	8.34	
Fotal %				
100.00				
sons for Changes in Q	uantities Released from Pre	vious Year		
Select the applicat	le reason or reasons*	ç		
No significant cha	nge (i.e. < 10%) ог по с	thange		
Comments ? (On-Sit	e Releases)			

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

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

Substance Reporting Status

Applicable	Programs
------------	----------

Please select the program status.

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

......

Comments

.

On-site Releases

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

.....

•

	Releases to Air				
			Basis Of Estimate:	Quantity (Tonnes)	
	Stack or Point Relea	ses	E1 - Site Specific Emission Factors	21.98	
	Storage or Handling	Releases	NA - Not Applicable	· · · · · · · · ·	
	Fugitive Releases		NA - Not Applicable	· · · · · · · · · · · · · · · · · · ·	
	Spills		NA - Not Applicable		
	Other Non-point Rele	ases	NA - Not Applicable		
	Road Dust		NA - Not Applicable		
_	Total - Releases to Air 21.98				
Br	eakdown of Annual Releases	3			
	F 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	
Re	Total % 100.00 asons for Changes in Quanti	ties Released fron	n Previous Year		
	Select the applicable r No significant change Comments ? (On-Site Re	(i.e. < 10%) or			
	Total Particulate Matt				
	 Total Particulate Matter 				
	ance Reporting Status				
	lease select the program				
	NPRI	t the criteria spe	ecified in the Canada Gazette notice	2? Selecting "No" indicates voluntary	
	· · · · ·				
	Comments				
On-sit	e Releases				

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

	Ba	is Of Estimate:	Quantity (Tonnes)	
Stack or Point Relea	C.	L - Site Specific Emission actors	37.9	
Storage or Handling	Releases N	A - Not Applicable		
Fugitive Releases	N	A - Not Applicable	e e e e e e e e e e e e e e e e e e e	
Spills	N	A - Not Applicable		
Other Non-point Rel	eases N/	A - Not Applicable		
Road Dust	N	A - Not Applicable	\	
kdown of Annual Release	\$			
- Istribute Equally onthly Releases				
January %	February %	March %	Aprii %	
8.33	8.33	8.34	8.33	
flay %	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)

Version: 2.5.1,1

SAPA Toronto Casthouse Toxics Reduction Plan Manganese

8.0 Certification

As of December 12, 2013, I, Yong Lee, certify that I have read the toxic substance reduction plan for manganese and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act with the exception of the regulatory deadline.

Yong Lee, General Manager

As of December 13, 2013, I, Wendy Nadan certify that I am familiar with the processes at SAPA Canada Inc. that use manganese, that I agree with the estimates referred to in subparagraphs 7 iii, iv and v of subsection 4 (1) of the Toxics Reduction Act, 2009 that are set out in the plan dated December 13, 2013 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act with the exception of the regulatory deadline.

December 13, 2013

Wendy Nadan, Toxic Substance Reduction Planner

SAPA Toronto Casthouse **Toxics Reduction Plan** Chromium

8.0 Certification

As of December 12, 2013, I, Yong Lee, certify that I have read the toxic substance reduction plan for chromium and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act with the exception of the regulatory deadline.

Yong Lee, General Manager

Dec. 23, 2013

As of December 13, 2013, I, Wendy Nadan certify that I am familiar with the processes at SAPA Canada Inc. that use chromium, that I agree with the estimates referred to in subparagraphs 7 iii, iv and v of subsection 4 (1) of the Toxics Reduction Act, 2009 that are set out in the plan dated December 13, 2013 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act with the exception of the regulatory deadline.

December 13, 2013

Wendy Nadan, Toxic Substance Reduction Planner

SAPA Toronto Casthouse Toxics Reduction Plan Particulate Matter

9.0 Certification

As of December 12, 2013, I, Yong Lee, certify that I have read the toxic substance reduction plan for particulate matter and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

Yong Lee, General Manager

Date

As of December 13, 2013, I, Wendy Nadan certify that I am familiar with the processes at SAPA Canada Inc. that use particulate matter, that I agree with the estimates referred to in subparagraphs 7 iii, iv and v of subsection 4 (1) of the Toxics Reduction Act, 2009 that are set out in the plan dated December 13, 2013 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

December 13, 2013

Wendy Nadan, Toxic Substance Reduction Planner

SAPA Toronto Casthouse Toxics Reduction Plan Copper

9.0 Certification

As of December 12, 2013, I, Yong Lee, certify that I have read the toxic substance reduction plan for copper and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act with the exception of the regulatory deadline.

Yong Lee, General Manager

2.23,2013

As of December 13, 2013, I, Wendy Nadan certify that I am familiar with the processes at SAPA Canada Inc. that use copper, that I agree with the estimates referred to in subparagraphs 7 iii, iv and v of subsection 4 (1) of the Toxics Reduction Act, 2009 that are set out in the plan dated December 13, 2013 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act with the exception of the regulatory deadline.



December 13, 2013

Wendy Nadan, Toxic Substance Reduction Planner

SAPA Toronto Casthouse Toxics Reduction Plan Dioxins and Furans Hexachlorobenzene

9.0 Certification

As of December 12, 2013, I, Yong Lee, certify that I have read the toxic substance reduction plan for dioxins, furans and hexachlorobenzene and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act with the exception of the regulatory deadline.

Yong Lee, General Manager

As of December 13, 2013, I, Wendy Nadan certify that I am familiar with the processes at SAPA Canada Inc. that create dioxins, furans and hexachlorobenzene, that I agree with the estimates referred to in subparagraphs 7 iii, iv and v of subsection 4 (1) of the Toxics Reduction Act, 2009 that are set out in the plan dated December 13, 2013 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act with the exception of the regulatory deadline.

December 13, 2013

Wendy Nadan, Toxic Substance Reduction Planner