#### Owens Corning Canada LP - Guelph Glass Plant **Toxics Reduction Public Summary Report Facility Information** Owens Corning Composite Materials Canada LP Company Name Facility Name Guelph Glass Plant Facility Physical Address 247 York Road, Guelph, ON, N1H 6P6 Facility Mailing Address Same as physical address Spatial Coordinates of Facility 562054 Easting; 4821622 Northing Number of Employees 210 NPRI ID 3287 2 Digit NAICS Code 32 4 Digit NAICS Code 3272 6 Digit NAICS Code 327214 Parent Company Information Parent Company Name OC Canada Holding Company 3450 McNicoll Ave, Scarorough, Ontario, CANADA, M1V 1Z5 Address Percent Ownership (if available) 99.99% **Parent Company Information** Parent Company Name Owens Corning Composite Materials Canada GP Inc. 900-400 St. Mary Avenue, Winnipeg, Manitoba, CANADA, R3C 4K5 Address Percent Ownership (if available) 0.01% **Facility Contact** Public Contact Rob Nixon Position Maintenance & Engineering Leader Address 247 York Street, Guelph, ON, CANADA, N1E 3G4 Robert.D.Nixon@owenscorning.com email Phone 519-823-7219 Fax 519-823-7204 **Date of Summary** 2013 Reporting Year Summary Date June 1, 2014 Phase 1 Toxics Substances Reported Chromium, Hydrochloric Acid Phase 2 Toxics Substances Reported PM10, PM2.5, Sulphur Dioxide, Nitrogen Oxides Copy of Certification: As of June 1, 2014, I certify that I have read the report on the toxic substance reduction plan(s) for the toxics listed above and am familiar with their contents and to my knowledge the information contained in the report(s) is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act. The original version of this report is signed off by: Highest Ranking Employee: Charles White Title: Plant Leader 30-May-14

Dated

Signed

	Owens Corning	Canada LP - Gu	ielph Glass Pla	ınt		
	Toxics Redu	ıction Public Sur	nmary Report			
Substance Information ar	nd Plan Objective					
Substance Na	•	Chromium Compounds (Di-,Tri-,metallic)				
CAS#		CAS # NA-04	, ,	,		
Report Date:		1-Jun-14				
Plan Date:		20-Dec-12				
Plan Objective	es and Targets	Owens Corning Composite Materials Canada LP - Guelph Glass Plant is committed to playing a leadership role in protecting the environment. Owen Corning does not intend to further reduce the use of chromium because of t success of previously implemented reduction efforts. Whenever feasible, we will eliminate, or reduce the use, creation and discharge of chromium in full compliance with all Federal and Provincial Regulations.				
oxics Substance Accou	nting and Comparison					
Pathways		2012	2013	Delta	Delta %	
Units reported		tonnes	tonnes			
	Process (Raw Materials)	>1 to 10	>10 to 100	>1 to 10	298%	
C - Created		0	0	0	NA	
P - In a product	that leaves the process	>1 to 10	>1 to 10	>0 to -1	-6%	
	easons for changes between nd previous year.	Routine Refractory	Replacement (Main	tenance)		
	ses from the facility to air, way searching for this facility at h			•	-site recycling can	
implement the	Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.  Not Applicable					
calendar year	Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.					
Summary of d in the plan.	ifferences between steps taken	and those set out	Not Applicable			
				<del></del>		

Description of amendments to the plan.

Not Applicable

Substance Name   HYDROGEN CHLORIDE   CAS #   7647-01-0   Report Date:   1-Jun-14   Plan Date:   20-Dec-12   Owens Corning Composite Materials Canada LP - Guelph Glass Plant is committed to playing a leadership role in protecting the environment. Our goal is to reduce the amount of hydrochloric acid used at our facility. Whenever feasible, we will eliminate, or reduce the use, creation and discharge of hydrochloric acid in full compliance with all Federal and Provincial Regulations.    Pathways   2012   2013   Delta   Delta %   Units reported   tonnes   tonnes   U - Enters the Process (Raw Materials)   >10 to 100   >-1 to -10   -17%   C - Created   >0 to 1   >0 to 1   >0 to -1   -6%   P - In a product that leaves the process   0   0   0   NA   Summary of reasons for changes between current year and previous year.   Decrease in Production   Decrease in Production   C - Site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling call be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en   C - Site releases recycling call the process of the process of the site of the process of the process of the process of the site of the process of the process of the site of the process of the proceso	Owens (	Corning (	Sanada I P - Gu	ıolnh Glass Pla	nt		
Substance Name HYDROGEN CHLORIDE  CAS # 7647-01-0  Report Date: 1-Jun-14  Plan Date: 20-Dec-12  Owens Corning Composite Materials Canada LP - Guelph Glass Plant is committed to playing a leadership role in protecting the environment. Our goa is to reduce the amount of hydrochloric acid used at our facility. Whenever feasible, we will eliminate, or reduce the use, creation and discharge of hydrochloric acid in full compliance with all Federal and Provincial Regulations.  Foxics Substance Accounting and Comparison  Pathways 2012 2013 Delta Delta %  Units reported 50 10 10 10 10 10 10 10 10 10 10 10 10 10		_		•	iii.		
CAS # 7647-01-0 Report Date: 1-Jun-14 Plan Date: 20-Dec-12  Owens Corning Composite Materials Canada LP - Guelph Glass Plant is committed to playing a leadership role in protecting the environment. Our goa is to reduce the amount of hydrochloric acid used at our facility. Whenever feasible, we will eliminate, or reduce the use, creation and discharge of hydrochloric acid in full compliance with all Federal and Provincial Regulations.  Toxics Substance Accounting and Comparison  Pathways 2012 2013 Delta Delta % Units reported tonnes tonnes 10.17% C - Created 50.10 1.00 -10 to 100 -1 to 100 -1 17% C - Created 50.10 1 00 10 100 -1 to 100 -1 6% P - In a product that leaves the process 0 0 0 0 NA  Summary of reasons for changes between current year and previous year.  On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling cabe viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en  Progress in Implementing Plan  Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of those actions.  Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.  All steps postponed for 2014 implementation	Substance Information and Plan Objective						
Report Date:   1-Jun-14   Plan Date:   20-Dec-12	Substance Name		HYDROGEN CHLC	RIDE			
Report Date: Plan Date: 20-Dec-12  Owens Corning Composite Materials Canada LP - Guelph Glass Plant is committed to playing a leadership role in protecting the environment. Our goal is to reduce the amount of hydrochloric acid used at our facility. Whenever feasible, we will eliminate, or recation and discharge of hydrochloric acid in full compliance with all Federal and Provincial Regulations.  Toxics Substance Accounting and Comparison  Pathways  2012 2013 Delta Delta Wellaw Delta Wellaw Delta Wellaw Delta Work Delta Wor	CAS#		7647-01-0				
Plan Date:    Description Date:   20-Dec-12   Owens Corning Composite Materials Canada LP - Guelph Glass Plant is committed to playing a leadership role in protecting the environment. Our goa is to reduce the amount of hydrochloric acid used at our facility. Whenever feasible, we will eliminate, or reduce the use, creation and discharge of hydrochloric acid in full compliance with all Federal and Provincial Regulations.    Pathways	Report Date:						
Plan Objectives and Targets    Committed to playing a leadership role in protecting the environment. Our goal is to reduce the use, creation and discharge of hydrochloric acid used at our facility. Whenever feasible, we will eliminate, our reduce the use, creation and discharge of hydrochloric acid in full compliance with all Federal and Provincial Regulations.    Pathways   2012   2013   Delta   Delta   Pathways   Delta   Delta   Pathways   Delta   Delta   Pathways   Delta   Delta	Plan Date:		20-Dec-12				
Pathways Units reported Units report	Plan Objectives and Targets	committed to playing a leadership role in protecting the environment. Our goal is to reduce the amount of hydrochloric acid used at our facility. Whenever feasible, we will eliminate, or reduce the use, creation and discharge of hydrochloric acid in full compliance with all Federal and Provincial					
U-Enters the Process (Raw Materials) >10 to 100 >10 to 100 >-1 to -10 -17%  C - Created >0 to 1 >0 to 1 >0 to -1 -6%  P - In a product that leaves the process 0 0 0 NA  Summary of reasons for changes between current year and previous year.  On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling carbe viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en  Progress in Implementing Plan  Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.  Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.  Summary of differences between steps taken and those set out in the plan.  All steps postponed for 2014 implementation	Toxics Substance Accounting and Comparis	son					
U - Enters the Process (Raw Materials) C - Created Sol to 1 Sol to 100 Sol to 1 Sol to 100 Sol to 1 Sol to 100 Sol to 1 Sol to 1 Sol to 1 Sol to 100 Sol to 1 Sol to 1 Sol to 1 Sol to 100 Sol to 1 Sol to 1 Sol to 100 Sol to 1 Sol to 1 Sol to 100 Sol to 1 Sol to 1 Sol to 100 Sol to 1 Sol to 1 Sol to 100 S			2012	2013	Delta	Delta %	
C - Created							
Summary of reasons for changes between current year and previous year.  On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling carbe viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en  Progress in Implementing Plan  Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.  Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.  Summary of differences between steps taken and those set out in the plan.  All steps postponed for 2014 implementation	,	;)					
Summary of reasons for changes between current year and previous year.  On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling carbe viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en  Progress in Implementing Plan  Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.  Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.  Summary of differences between steps taken and those set out in the plan.  All steps postponed for 2014 implementation							
Current year and previous year.  On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling carbe viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en  Progress in Implementing Plan  Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.  Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.  Summary of differences between steps taken and those set out in the plan.  All steps postponed for 2014 implementation	P - In a product that leaves the proces	s	0	0	0	NA	
Progress in Implementing Plan  Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.  Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.  Summary of differences between steps taken and those set out in the plan.  All steps postponed for 2014 implementation	,	etween	Decrease in Produc	otion			
implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.  Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.  Summary of differences between steps taken and those set out in the plan.  All steps postponed for 2014 implementation						site recycling can	
calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.  Summary of differences between steps taken and those set out in the plan.  All steps postponed for 2014 implementation	implement the plan and a summary	implement the plan and a summary of the toxics reductions None					
in the plan.  All steps postponed for 2014 implementation	calendar year that impacted the to	calendar year that impacted the toxic, and a summary of the					
Description of amendments to the plan. None							
	Description of amendments to the	plan.		None			

	Owens Corning Canada LP - Guelph Glass Plant  Toxics Reduction Public Summary Report					
Substance	Information and Plan Objective					
	Substance Name	PM10 - PARTICULATE MATTER <=10MICRONS				
	CAS#	N/A - M09				
	Report Date:	1-Jun-14				
	Plan Date:	18-Dec-13				
	Plan Objectives and Targets	Owens Corning Composite Materials Canada LP - Guelph Glass Plant is committed to playing a leadership role in protecting the environment. Whenever feasible, we will eliminate, or reduce the creation and discharge of PM10 in full compliance with all Federal and Provincial Regulations.				

#### Toxics Substance Accounting and Comparison

Pathways	2012	2013	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>10 to 100	>10 to 100	>0 to -1	-6%
P - In a product that leaves the process	0	0	0	NA
Summary of reasons for changes between current year and previous year.	Decrease in Produc	ction		

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

### Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

TUXICS NO	eduction Public Sum	imary Keport		
ce Information and Plan Objective				
Substance Name	PM2.5 - PARTICUL	ATE MATTER <=2.	5MICRONS	
CAS#	N/A - M10			
Report Date:	1-Jun-14			
Plan Date:	18-Dec-13			
Plan Objectives and Targets	committed to playing Whenever feasible,	g a leadership role in we will eliminate, or	anada LP - Guelph ( in protecting the env r reduce the creation al and Provincial Re	rironment. n and discharge
Substance Accounting and Comparison				
Pathways	2012	2013	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>10 to 100	>10 to 100	>0 to -1	-6%
P - In a product that leaves the process	0	0	0	NA
Summary of reasons for changes between current year and previous year.	Decrease in Produc	tion		
On-site releases from the facility to air, be viewed by searching for this facility			•	site recycling

Not Applicable

Not Applicable

Not Applicable

achieved as a result of the steps taken.

Description of amendments to the plan.

in the plan.

Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the

steps and toxics reductions achieved as a result of those actions.

Summary of differences between steps taken and those set out

	Owens Corning Canada LP - Guelph Glass Plant						
	<b>Toxics Reduction Public Summary Report</b>						
Substance l	ubstance Information and Plan Objective						
	Substance Name	NITROGEN OXIDES (EXPRESSED AS NO:					

Substance	Information	and	Plan	Ob.	jective

Substance Name	INTROGEN OXIDES (EXPRESSED AS NO2)
CAS#	10102-44-0
Report Date:	1-Jun-14
Plan Date:	18-Dec-13
Plan Objectives and Targets	Owens Corning Composite Materials Canada LP - Guelph Glass Plant is committed to playing a leadership role in protecting the environment. Whenever feasible, we will eliminate, or reduce the creation and discharge of NOx in full compliance with all Federal and Provincial Regulations.

## Toxics Substance Accounting and Comparison

Pathways	2012	2013	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>10 to 100	>10 to 100	>1 to 10	4%
P - In a product that leaves the process	0	0	0	NA
Summary of reasons for changes between current year and previous year.	No Significant Char	nge		

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

# Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

Owens Cor	ning Canada LP - G	uelph Glass Pla	ınt			
Toxics	Reduction Public Su	mmary Report				
Substance Information and Plan Objective						
Substance Name	SULPHUR DIOXID	DE				
CAS #	7446-09-5					
Report Date:	1-Jun-14					
Plan Date:	18-Dec-13					
Plan Objectives and Targets	Owens Corning Composite Materials Canada LP - Guelph Glass Plant is committed to playing a leadership role in protecting the environment. Whenever feasible, we will eliminate, or reduce the creation and discharge of SO2 in full compliance with all Federal and Provincial Regulations.					
Toxics Substance Accounting and Comparison						
Pathways	2012	2012 2013 Delta Delta %				
Units reported	tonnes	tonnes				
U - Enters the Process (Raw Materials)	0	0	0	NA		
C - Created	>10 to 100	>10 to 100	> -1 to -10	-7%		
P - In a product that leaves the process	0	0	0	NA		
Summary of reasons for changes between current year and previous year.	Summary of reasons for changes between current year and previous year.  Decrease in Production					
On-site releases from the facility to be viewed by searching for this facility rogress in Implementing Plan				-site recycling can		
Summary of steps taken during the pre implement the plan and a summary of achieved as a result of the steps taken	the toxics reductions	Not Applicable				
Summary of additional actions taken d calendar year that impacted the toxic, steps and toxics reductions achieved a	and a summary of the	Not Applicable				

Not Applicable

Not Applicable

Summary of differences between steps taken and those set out in the plan.

Description of amendments to the plan.