

**Shell Canada Products - Sarnia Manufacturing Centre**

**Toxics Reduction Act**

**Public Summary Reports**

**2020**

**Toxics Reduction Act - Public Report  
2020**

The legal and trade names of the owner and the operator of the facility, the street address of the facility and, if the mailing address of the facility is different from the street address, the mailing address.(See below)	Shell Canada Products Sarnia Manufacturing Center 150 St.Clair Parkway Corunna, ON N0N1G0		
Facility NPRI identification number	3962		
The identification number assigned to the facility by the Ministry of the Environment for the purposes of Ontario Regulation 127/01.	7043		
Number of full-time employees	395		
North American Industry Classification System (NAICS) - 2, 4, and 6 digit codes	31-33	3241	324110
If applicable, the name, position and telephone number of the individual who is the contact at the facility for the public:	Mr. Bryant Bird External Relations Advisor (519) 481-4447 <a href="mailto:Bryant.Bird@shell.com">Bryant.Bird@shell.com</a>		
Public Contact (if applicable) Title Phone Number Email			
Address of each person below if not the same as the facility	Same as facility		
Facility Name			
Address 1			
Address 2			
City			
Province			
Postal Code			
UTM coordinates	E: 381730	N: 4751235	
Zone		17T	
Legal name of Canadian parent company, if your facility is a subsidiary of a Canadian parent company	Shell Canada Ltd		
Parent company name	400 4th Avenue		
Address	Calgary		
City	AB		
Province	T2P 0J4		
Postal Code	100		
Percent Ownership			

As of September 30, 2021, I certify that I have read the report on the toxic substance reduction plan(s) for benzene, ethylbenzene, naphthalene, toluene, xylene, cadmium, lead, mercury, benzo(a)anthracene, benzo(b)fluoranthene, phenanthrene, pyrene, benzo(a)pyrene, benzo(e)pyrene, fluorene, methanol, tetrachloroethylene, sulphuric acid, asbestos, 1,2,4-trimethylbenzene, ammonia, isopropyl benzene, cyclohexane, diethanolamine, ethylene, n-hexane, hydrogen sulphide, iso-propanol, propylene, total reduced sulphur, fluorene, light aliphatic naphtha, propane, butane, butene, heptane, octane, pentane, pentene, acetone, total particulate matter, PM10-particulate matter, PM2.5-particulate matter, nitrogen oxides, sulphur dioxide and carbon monoxide, and I 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.

23 September 2021

\_\_\_\_\_  
Pauline Buitink  
General Manager - Shell Sarnia Manufacturing Center

\_\_\_\_\_  
Date



<b>Substance Information and Plan Objective</b>				
Substance Name	<b>Benzene</b>			
CAS #	71-43-2			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-12			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use or creation of Benzene, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Benzene through current and future pollution prevention and best management practices.			
<b>Toxics Substance Accounting and Comparison</b>				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-7%
C - Created	>10,000 to 100,000	>10,000 to 100,000	>100 to 1000	7%
P - In a product that leaves the process	>10,000 to 100,000	>10,000 to 100,000	> -100 to -1000	-1%
Summary of reasons for changes between current year and previous year.	Insignificant changes			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
<b>Progress in Implementing Plan</b>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

<b>Substance Information and Plan Objective</b>				
Substance Name	<b>Ethylbenzene</b>			
CAS #	100-41-4			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-12			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use or creation of Ethylbenzene, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Ethylbenzene through current and future pollution prevention and best management practices.			
<b>Toxics Substance Accounting and Comparison</b>				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-10%
C - Created	>1000 to 10,000	>1000 to 10,000	> -1 to -10	0%
P - In a product that leaves the process	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-9%
Summary of reasons for changes between current year and previous year.	Insignificant changes			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
<b>Progress in Implementing Plan</b>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	<b>Naphthalene</b>			
CAS #	91-20-3			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-12			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use or creation of Naphthalene, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Naphthalene through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	>1000 to 10,000	>1000 to 10,000	> -100 to -1000	-16%
C - Created	>100 to 1000	>1000 to 10,000	>100 to 1000	134%
P - In a product that leaves the process	>1000 to 10,000	>1000 to 10,000	>100 to 1000	26%
Summary of reasons for changes between current year and previous year.	Increased amount created in process and leaving in products. Decreased amount in entering process.			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

<b>Substance Information and Plan Objective</b>				
Substance Name	<b>Toluene</b>			
CAS #	108-88-3			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-12			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use or creation of Toluene, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Toluene through current and future pollution prevention and best management practices.			
<b>Toxics Substance Accounting and Comparison</b>				
<b>Pathways</b>	<b>2019</b>	<b>2020</b>	<b>Delta</b>	<b>Delta %</b>
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-27%
C - Created	>10,000 to 100,000	>10,000 to 100,000	>1000 to 10,000	5%
P - In a product that leaves the process	>100,000 to 1,000,000	>100,000 to 1,000,000	> -1000 to -10,000	-5%
Summary of reasons for changes between current year and previous year.	Decrease in entering process.			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
<b>Progress in Implementing Plan</b>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Xylene (all isomers)			
CAS #	1330-20-7			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-12			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use or creation of Xylene, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Xylene through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-17%
C - Created	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-7%
P - In a product that leaves the process	>10,000 to 100,000	>10,000 to 100,000	>-10,000 to -100,000	-11%
Summary of reasons for changes between current year and previous year.	Decreased amount entering process, and contained in products.			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			



<b>Substance Information and Plan Objective</b>				
Substance Name	<b>Cadmium (and its compounds)</b>			
CAS #	**			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-12			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use of Cadmium, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Cadmium through current and future pollution prevention and best management practices.			
<b>Toxics Substance Accounting and Comparison</b>				
<b>Pathways</b>	<b>2019</b>	<b>2020</b>	<b>Delta</b>	<b>Delta %</b>
Units reported	kg	kg		
U - Enters the Process (Raw Materials)	>10 to 100	>10 to 100	> -10 to -100	-20%
C - Created	0	0	0	NA
P - In a product that leaves the process	>10 to 100	>10 to 100	> -1 to -10	-12%
Summary of reasons for changes between current year and previous year.	Decrease in amounts entering and that leave process			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
<b>Progress in Implementing Plan</b>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Lead (and its compounds)			
CAS #	**			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-12			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use of Lead, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Lead through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	kg	kg		
U - Enters the Process (Raw Materials)	>100 to 1000	>100 to 1000	>10 to 100	11%
C - Created	0	0	0	NA
P - In a product that leaves the process	>100 to 1000	>100 to 1000	> -10 to -100	-14%
Summary of reasons for changes between current year and previous year.	Increased amount entering process and decreased contained in products			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Mercury (and its compounds)			
CAS #	**			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-12			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use of Mercury, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Mercury through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	kg	kg		
U - Enters the Process (Raw Materials)	>1 to 10	>1 to 10	>0 to -1	-7%
C - Created	0	0	0	NA
P - In a product that leaves the process	>1 to 10	>1 to 10	>0 to -1	-12%
Summary of reasons for changes between current year and previous year.	Insignificant changes			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

<b>Substance Information and Plan Objective</b>				
Substance Name	<b>Benzo(a)anthracene</b>			
CAS #	56-55-3			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-12			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use of Benzo(a)anthracene, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Benzo(a)anthracene through current and future pollution prevention and best management practices.			
<b>Toxics Substance Accounting and Comparison</b>				
<b>Pathways</b>	<b>2019</b>	<b>2020</b>	<b>Delta</b>	<b>Delta %</b>
Units reported	kg	kg		
U - Enters the Process (Raw Materials)	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-9%
C - Created	0	0	0	NA
P - In a product that leaves the process	>10,000 to 100,000	>10,000 to 100,000	>100 to 1000	1%
Summary of reasons for changes between current year and previous year.	Insignificant changes			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
<b>Progress in Implementing Plan</b>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Benzo(a)phenanthrene (Chrysene)			
CAS #	218-01-9			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-12			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use of Benzo(a)phenanthrene (Chrysene), the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Benzo(a)phenanthrene (Chrysene) through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	kg	kg		
U - Enters the Process (Raw Materials)	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-6%
C - Created	0	0	0	NA
P - In a product that leaves the process	>1000 to 10,000	>1000 to 10,000	>1000 to 10,000	35%
Summary of reasons for changes between current year and previous year.	Increased amount contained in products			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Benzo(a)pyrene			
CAS #	50-32-8			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-12			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use of Benzo(a)pyrene, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Benzo(a)pyrene through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	kg	kg		
U - Enters the Process (Raw Materials)	>1000 to 10,000	>1000 to 10,000	> -100 to -1000	-8%
C - Created	0	0	0	NA
P - In a product that leaves the process	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-5%
Summary of reasons for changes between current year and previous year.	Insignificant changes			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Fluoranthene			
CAS #	206-44-0			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-12			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use of Fluoranthene, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Fluoranthene through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	kg	kg		
U - Enters the Process (Raw Materials)	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-9%
C - Created	0	0	0	NA
P - In a product that leaves the process	>10,000 to 100,000	>10,000 to 100,000	>1000 to 10,000	79%
Summary of reasons for changes between current year and previous year.	Increased amount leaving in products			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Phenanthrene			
CAS #	85-01-8			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-12			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use of Phenanthrene, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Phenanthrene through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	kg	kg		
U - Enters the Process (Raw Materials)	>100,000 to 1,000,000	>100,000 to 1,000,000	>-10,000 to -100,000	-8%
C - Created	0	0	0	NA
P - In a product that leaves the process	>10,000 to 100,000	>100,000 to 1,000,000	>100,000 to 1,000,000	299%
Summary of reasons for changes between current year and previous year.	Increased amount contained in products			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			



Substance Information and Plan Objective				
Substance Name	Pyrene			
CAS #	129-00-0			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-12			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use of Pyrene, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Pyrene through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	kg	kg		
U - Enters the Process (Raw Materials)	>100,000 to 1,000,000	>100,000 to 1,000,000	>-10,000 to -100,000	-10%
C - Created	0	0	0	NA
P - In a product that leaves the process	>100,000 to 1,000,000	>100,000 to 1,000,000	>10,000 to 100,000	27%
Summary of reasons for changes between current year and previous year.	Increased amount leaving in products			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Benzo(b)fluoranthene			
CAS #	205-99-2			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-12			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use of Benzo(b)fluoranthene, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Benzo(b)fluoranthene through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	kg	kg		
U - Enters the Process (Raw Materials)	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-6%
C - Created	0	0	0	NA
P - In a product that leaves the process	>1000 to 10,000	>1000 to 10,000	> -100 to -1000	-10%
Summary of reasons for changes between current year and previous year.	No significant changes			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Benzo(j)fluoranthene			
CAS #	205-82-3			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-12			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use of Benzo(j)fluoranthene, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Benzo(j)fluoranthene through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	kg	kg		
U - Enters the Process (Raw Materials)	>10,000 to 100,000	>10,000 to 100,000	> -100 to -1000	-6%
C - Created	0	0	0	NA
P - In a product that leaves the process	>1000 to 10,000	>1000 to 10,000	> -100 to -1000	-10%
Summary of reasons for changes between current year and previous year.	No significant changes			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Benzo(k)fluoranthene			
CAS #	207-08-9			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-12			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use of Benzo(k)fluoranthene, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Benzo(k)fluoranthene through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	kg	kg		
U - Enters the Process (Raw Materials)	>1000 to 10,000	>1000 to 10,000	> -100 to -1000	-7%
C - Created	0	0	0	NA
P - In a product that leaves the process	>1000 to 10,000	>1000 to 10,000	> -100 to -1000	-10%
Summary of reasons for changes between current year and previous year.	No significant changes			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Benzo(e)pyrene			
CAS #	192-97-2			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-12			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use of Benzo(e)pyrene, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Benzo(e)pyrene through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	kg	kg		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	0	0	0	NA
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 changes			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Methanol			
CAS #	67-56-1			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-12			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use of Methanol, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Methanol through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	>10 to 100	>10 to 100	>1 to 10	19%
C - Created	0	0	0	NA
P - In a product that leaves the process	>10 to 100	>10 to 100	>1 to 10	19%
Summary of reasons for changes between current year and previous year.	No significant changes			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

<b>Substance Information and Plan Objective</b>				
Substance Name	<b>Tetrachloroethylene</b>			
CAS #	127-18-4			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-12			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use of Tetrachloroethylene, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Tetrachloroethylene through current and future pollution prevention and best management practices.			
<b>Toxics Substance Accounting and Comparison</b>				
<b>Pathways</b>	<b>2019</b>	<b>2020</b>	<b>Delta</b>	<b>Delta %</b>
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	>10 to 100	>10 to 100	>1 to 10	10%
C - Created	0	0	0	NA
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 changes			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
<b>Progress in Implementing Plan</b>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Sulphuric Acid			
CAS #	127-18-4			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-12			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use or creation of Sulphuric Acid, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Sulphuric Acid through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	>100 to 1000	>100 to 1000	> -10 to -100	-16%
C - Created	>10 to 100	>10 to 100	> -1 to -10	-15%
P - In a product that leaves the process	0	0	0	NA
Summary of reasons for changes between current year and previous year.	Decreased amount entering process, and amount created.			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			



Substance Information and Plan Objective				
Substance Name	Asbestos (friable form only)			
CAS #	1332-21-4			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-12			
Plan Objectives and Targets	Shell SMC will continue to operate in full compliance with all applicable environmental regulations; and we will continue our ongoing program of Asbestos removal.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	0	0	0	NA
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 changes			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	1,2,4-Trimethyl Benzene			
CAS #	95-63-6			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use or creation of 1,2,4-Trimethyl Benzene, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of 1,2,4-Trimethyl Benzene through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	>1000 to 10,000	>1000 to 10,000	> -1000 to -10,000	-15%
C - Created	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-13%
P - In a product that leaves the process	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-14%
Summary of reasons for changes between current year and previous year.	Decreased amount entering process, created and contained in products			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Ammonia (Total)			
CAS #	7664-41-7			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use or creation of Ammonia, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Ammonia through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	>1 to 10	>1 to 10	0	0%
C - Created	>10 to 100	>10 to 100	> -10 to -100	-44%
P - In a product that leaves the process	0	0	0	NA
Summary of reasons for changes between current year and previous year.	Decreased amount created in process			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Isopropyl benzene (Cumene)			
CAS #	98-82-8			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use of Isopropyl Benzene, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Isopropyl Benzene through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	>1000 to 10,000	>1000 to 10,000	> -100 to -1000	-6%
C - Created	0	0	0	NA
P - In a product that leaves the process	>1000 to 10,000	>1000 to 10,000	> -100 to -1000	-6%
Summary of reasons for changes between current year and previous year.	No significant changes			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Cyclohexane			
CAS #	110-82-7			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use of Cyclohexane, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Cyclohexane through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-6%
C - Created	0	0	0	NA
P - In a product that leaves the process	>1000 to 10,000	>1000 to 10,000	>100 to 1000	5%
Summary of reasons for changes between current year and previous year.	No significant changes			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Diethanolamine (and its salts)			
CAS #	111-42-2			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use of Diethanolamine, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Diethanolamine through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	>10 to 100	>10 to 100	>10 to 100	50%
C - Created	0	0	0	NA
P - In a product that leaves the process	0	0	0	NA
Summary of reasons for changes between current year and previous year.	Increase in amount entering the process			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Ethylene			
CAS #	74-85-1			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the creation of Ethylene, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of 1,2,4-Ethylene through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>1 to 10	>1 to 10	>0 to -1	-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 change			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	n-Hexane			
CAS #	110-54-3			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use or creation of n-Hexane, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of n-Hexane through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-12%
C - Created	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-9%
P - In a product that leaves the process	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-11%
Summary of reasons for changes between current year and previous year.	Decreased amount entering process, and contained in products			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			



Substance Information and Plan Objective				
Substance Name	Hydrogen Sulphide			
CAS #	7783-06-4			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use of Hydrogen Sulphide, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Hydrogen Sulphide through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	>100 to 1000	>100 to 1000	> -10 to -100	-6%
C - Created	0	0	0	NA
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 change			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Isopropyl Alcohol			
CAS #	67-63-0			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use or creation of Isopropyl Alcohol, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Isopropyl Alcohol through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	>1 to 10	>1 to 10	>0 to -1	-20%
C - Created	>10,000 to 100,000	>10,000 to 100,000	>1000 to 10,000	10%
P - In a product that leaves the process	>10,000 to 100,000	>10,000 to 100,000	>1000 to 10,000	10%
Summary of reasons for changes between current year and previous year.	Decreased amount entering the process			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Propylene			
CAS #	115-07-1			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use or creation of Propylene, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Propylene through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-38%
C - Created	0	0	0	NA
P - In a product that leaves the process	>100 to 1000	>100 to 1000	> -10 to -100	-13%
Summary of reasons for changes between current year and previous year.	Decreased amount entering process.			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Total Reduced Sulphur (as H2S)			
CAS #	NA - M14			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use of Total Reduced Sulphur, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Total Reduced Sulphur through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	>100 to 1000	>100 to 1000	> -10 to -100	-6%
C - Created	0	0	0	NA
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 change			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Fluorene			
CAS #	86-73-7			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-12			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use of Fluorene, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Fluorene through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	kg	kg		
U - Enters the Process (Raw Materials)	>100,000 to 1,000,000	>100,000 to 1,000,000	>-10,000 to -100,000	-6%
C - Created	0	0	0	NA
P - In a product that leaves the process	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-12%
Summary of reasons for changes between current year and previous year.	Decreased amount in product leaving the process			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Light Aliphatic Naphtha			
CAS #	64742-89-8			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the creation of Light Aliphatic Naphtha, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Light Aliphatic Naphtha through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>1 to 10	>1 to 10	>0 to 1	3%
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 change			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Propane			
CAS #	74-98-6			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use or creation of Propane, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Propane through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	>1000 to 10,000	>1000 to 10,000	> -1000 to -10,000	-35%
C - Created	>10,000 to 100,000	>10,000 to 100,000	> -100 to -1000	-2%
P - In a product that leaves the process	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-12%
Summary of reasons for changes between current year and previous year.	Increased amount entering the process.			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Butane (all isomers)			
CAS #	NA - 24			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use or creation of Butane, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Butane through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	>10,000 to 100,000	>10,000 to 100,000	>1000 to 10,000	13%
C - Created	>100,000 to 1,000,000	>100,000 to 1,000,000	>-10,000 to -100,000	-11%
P - In a product that leaves the process	>100,000 to 1,000,000	>100,000 to 1,000,000	>-10,000 to -100,000	-7%
Summary of reasons for changes between current year and previous year.	Decreased amount created.			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			



Substance Information and Plan Objective				
Substance Name	Butene (all isomers)			
CAS #	25167-67-3			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use or creation of Butene, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Butene through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>10,000 to 100,000	>10,000 to 100,000	>100 to 1000	1%
P - In a product that leaves the process	>10,000 to 100,000	>10,000 to 100,000	>100 to 1000	1%
Summary of reasons for changes between current year and previous year.	No significant change			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Heptane (all isomers)			
CAS #	NA - 31			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use or creation of Heptane, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Heptane through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	>1000 to 10,000	>1000 to 10,000	> -1000 to -10,000	-12%
C - Created	>1000 to 10,000	>1000 to 10,000	> -100 to -1000	-10%
P - In a product that leaves the process	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-11%
Summary of reasons for changes between current year and previous year.	Decreased amount entering process, and contained in products			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Octane (all isomers)			
CAS #	NA - 34			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use or creation of Octane, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Octane through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	>10,000 to 100,000	>10,000 to 100,000	> -100 to -1000	-6%
C - Created	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-12%
P - In a product that leaves the process	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-10%
Summary of reasons for changes between current year and previous year.	Decreased amount created in process and contained in products			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Pentane (all isomers)			
CAS #	NA - 35			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use or creation of Pentane, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Pentane through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	>100 to 1000	>100 to 1000	>10 to 100	25%
C - Created	>1000 to 10,000	>1000 to 10,000	>1000 to 10,000	35%
P - In a product that leaves the process	>1000 to 10,000	>1000 to 10,000	>1000 to 10,000	44%
Summary of reasons for changes between current year and previous year.	Increased amount created in process			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Pentene (all isomers)			
CAS #	NA - 36			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the creation of Pentene, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Pentene through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>1 to 10	>1 to 10	>0 to 1	1%
P - In a product that leaves the process	0	0	0	NA
Summary of reasons for changes between current year and previous year.	Insignificant changes			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Acetone			
CAS #	67-64-1			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the creation of Acetone, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Acetone through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>0 to 1	>0 to 1	>0 to -1	0%
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 changes			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Total Particulate Matter			
CAS #	NA - M08			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the creation of Total Particulate Matter, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Total Particulate Matter through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>100 to 1000	>100 to 1000	> -10 to -100	-28%
P - In a product that leaves the process	0	0	0	NA
Summary of reasons for changes between current year and previous year.	Decreased amount created in process			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	PM10 - Particulate Matter			
CAS #	NA - M09			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the creation of PM10, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of PM10 through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>100 to 1000	>100 to 1000	> -10 to -100	-28%
P - In a product that leaves the process	0	0	0	NA
Summary of reasons for changes between current year and previous year.	Decreased amount created in process			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			



Substance Information and Plan Objective				
Substance Name	PM2.5 - Particulate Matter			
CAS #	NA - M010			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the creation of PM2.5, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of PM2.5 through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>10 to 100	>10 to 100	> -10 to -100	-27%
P - In a product that leaves the process	0	0	0	NA
Summary of reasons for changes between current year and previous year.	Decreased amount created in process			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Nitrogen Oxides (as NO2)			
CAS #	11104-93-1			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the creation of Nitrogen Oxides, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Nitrogen Oxides through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>100 to 1000	>100 to 1000	> -10 to -100	-10%
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 changes			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Sulphur Dioxide			
CAS #	7446-09-5			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the creation of Sulphur Dioxide, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Sulphur Dioxide through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>1000 to 10,000	>1000 to 10,000	>10 to 100	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 changes			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	Carbon Monoxide			
CAS #	630-08-0			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the creation of Carbon Monoxide, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of Carbon Monoxide through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>100 to 1000	>100 to 1000	> -10 to -100	-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 changes			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

Substance Information and Plan Objective				
Substance Name	VOCs			
CAS #	NA - M16			
Report Date:	30-Sep-21			
Plan Date:	31-Dec-13			
Plan Objectives and Targets	While Shell SMC does not intend to reduce the use of VOCs, the plan was developed with the following objectives. We will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage releases of VOCs through current and future pollution prevention and best management practices.			
Toxics Substance Accounting and Comparison				
Pathways	2019	2020	Delta	Delta %
Units reported	Tonnes	Tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>100 to 1000	>100 to 1000	>1 to 10	1%
P - In a product that leaves the process	0	0	0	NA
Summary of reasons for changes between current year and previous year.	Insignificant changes			
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				
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.	No Steps			
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.	No additional actions			
Summary of differences between steps taken and those set out in the plan.	No differences			
Description of amendments to the plan.	No amendments			

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**Shell Canada Products - Sarnia Manufacturing Centre**

**Toxics Reduction Public Summary Report**

<b>Substance Information and Plan Objective</b>	
Substance Name	<b>Phosphorus, Total</b>
CAS #	**
Report Date:	30-Sep-21
Plan Date:	Not applicable
Plan Objectives and Targets	Not applicable. Plan due on December 31, 2015.
<b>Toxics Substance Accounting and Comparison</b>	
<b>Pathways</b>	
Units reported	
U - Enters the Process (Raw Materials)	
C - Created	
P - In a product that leaves the process	
Summary of reasons for changes between current year and previous year.	Not reportable for 2020
On-site releases from the facility to air, water and land, as well as on-site and off-site disposal and recycling, can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>	
<b>Progress in Implementing Plan</b>	
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. Plan due on December 31, 2015.
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. Plan due on December 31, 2015.
Summary of differences between steps taken and those set out in the plan.	Not applicable. Plan due on December 31, 2015.
Description of amendments to the plan.	Not applicable. Plan due on December 31, 2015.

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