Report Preview

Report Details

Report Year	2016
Report Type:	NPRI,ON MOE TRA
Report Status:	Update 1 - Submitted
Modified Date/Time:	27/07/2017 2:45 PM
Report Update Comments:	The update is being completed to correct the quantification data for mercury.

Company and Facility Details

Company Name:	Federal White Cement Ltd.
Business Number:	874368061
Mailing Address:	Address Line 1: 355151 35th Line City, Province/Territory, Postal Code: Woodstock Ontario N0J1J0 Country: Canada
Facility Name:	Woodstock Plant
NAICS Code:	327310
NPRI ID:	5946
Physical Address:	Address Line 1: 3551551 35th Line City, Province/Territory, Postal Code: Woodstock Ontario N0J1J0 Country: Canada Latitude: 43.09890 Longitude: -80.89430 UTM Zone: 17 UTM Easting: 511604 UTM Northing: 4768470

Parent Companies

Company Name:	Federal White Cement Ltd.
Business Number:	101754935
Mailing Address:	Address Line 1: West Pender Street City, Province/Territory, Postal Code: Vancouver BritishColumbia V6C1M2 Country: Canada

Contacts Details

Contact Type	Technical Contact
Name:	JP Zannier
Position:	Technical contact
Telephone:	5194855410
Fax:	5194855892

Email:	jpzannier@federalwhite.com
Contact Type	Certifying Official
Name:	George Doumet
Position:	President
Telephone:	6046839641
Fax:	6046833924
Email:	gdoumet@candoumanagement.com
Contact Type	Contractor Contact, Person who prepared the report
Name:	Erik Martinez
Position:	Environmental Consultant
Telephone:	5198840510
Fax:	5198840525
Email:	erik.martinez@ghd.com
Independent contractor/consultant company name:	GHD Limited
Contact Type	Highest Ranking Employee
Name:	George Doumet
Position:	President
Telephone:	6046839641
Email:	gdoumet@candoumanagement.com
Mailing Address:	Address Line 1: 1020 Pender Street West City, Province/Territory, Postal Code: Vancouver BritishColumbia V6C 1M2 Country: Canada
Contact Type	Public Contact
Name:	

General Information

Number of employees:	67
Activities for Which the 20,000-Hour Employee Threshold Does Not Apply:	None of the above
Activities Relevant to Reporting Dioxins, Furans and Hexacholorobenzene:	Manufacturing of Portland cement
Activities Relevant to Reporting of Polycyclic Aromatic Hydrocarbons (PAHs):	Wood preservation using creosote: No
Is this the first time the facility is reporting to the NPRI (under current or past ownership):	No
Is the facility controlled by another Canadian company or companies:	No
Did the facility report under other environmental regulations or permits:	No
Is the facility required to report one or more NPRI Part 4 substances (Criteria Air Contaminants):	Yes
Was the facility shut down for more than one week during the year:	No
Operating Schedule - Days of the Week:	Mon, Tue, Wed, Thu, Fri, Sat, Sun
Usual Number of Operating Hours per day:	24
Usual Daily Start Time (24h) (hh:mm):	07:00

Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
208-96-8	Acenaphthylene	21.5580	N/A	N/A	N/A	kg
NA - 16	Ammonia (total)	21.5940	N/A	N/A	N/A	tonnes
56-55-3	Benzo(a)anthracene	0.0080	N/A	N/A	N/A	kg
218-01-9	Benzo(a)phenanthrene	0.0300	N/A	N/A	N/A	kg
50-32-8	Benzo(a)pyrene	0.0240	N/A	N/A	N/A	kg
205-99-2	Benzo(b)fluoranthene	0.1020	N/A	N/A	N/A	kg
191-24-2	Benzo(g,h,i)perylene	0.0140	N/A	N/A	N/A	kg
207-08-9	Benzo(k)fluoranthene	0.0280	N/A	N/A	N/A	kg
630-08-0	Carbon monoxide	205.8800	N/A	N/A	N/A	tonnes
53-70-3	Dibenzo(a,h)anthracene	0.1130	N/A	N/A	N/A	kg
NA - D/F	Dioxins and furans - total	0.0008	NI	NI	NI	g TEQ(ET)
206-44-0	Fluoranthene	1.6080	N/A	N/A	N/A	kg
118-74-1	Hexachlorobenzene	0.0000	N/A	N/A	N/A	grams
193-39-5	Indeno(1,2,3-c,d)pyrene	0.0160	N/A	N/A	N/A	kg
NA - 08	Lead (and its compounds)	132.0000	N/A	N/A	N/A	kg
NA - 10	Mercury (and its compounds)	40.1930	N/A	N/A	N/A	kg
11104-93-1	Nitrogen oxides (expressed as NO2)	2002.8410	N/A	N/A	N/A	tonnes
85-01-8	Phenanthrene	73.0780	N/A	N/A	N/A	kg
NA - M09	PM10 - Particulate Matter <= 10 Microns	164.1780	N/A	N/A	N/A	tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	114.2910	N/A	N/A	N/A	tonnes
129-00-0	Pyrene	0.8040	N/A	N/A	N/A	kg
7446-09-5	Sulphur dioxide	2274.0480	N/A	N/A	N/A	tonnes
NA - M08	Total Particulate Matter	198.5040	N/A	N/A	N/A	tonnes
NA - M16	Volatile Organic Compounds (VOCs)	37.7080	N/A	N/A	N/A	tonnes

Applicable Programs

CAS RN	Substance Name	NPRI	ON MOE TRA	ON MOE Reg 127/01	First report for this substance to the ON MOE TRA
208-96-8	Acenaphthylene	Yes	Yes		No
NA - 16	Ammonia (total)	Yes	Yes		No
56-55-3	Benzo(a)anthracene	Yes	Yes		No
218-01-9	Benzo(a)phenanthrene	Yes	Yes		No
50-32-8	Benzo(a)pyrene	Yes	Yes		No
205-99-2	Benzo(b)fluoranthene	Yes	Yes		No
191-24-2	Benzo(g,h,i)perylene	Yes	Yes		No
207-08-9	Benzo(k)fluoranthene	Yes	Yes		No
630-08-0	Carbon monoxide	Yes	Yes		No
53-70-3	Dibenzo(a,h)anthracene	Yes	Yes		No
NA - D/F	Dioxins and furans - total	Yes	Yes		No
206-44-0	Fluoranthene	Yes	Yes		No
118-74-1	Hexachlorobenzene	Yes	Yes		No
193-39-5	Indeno(1,2,3-c,d)pyrene	Yes	Yes		No
NA - 08	Lead (and its compounds)	Yes	Yes		No
NA - 10	Mercury (and its compounds)	Yes	Yes		No
11104-93-1	Nitrogen oxides (expressed as NO2)	Yes	Yes		No
85-01-8	Phenanthrene	Yes	Yes		No
NA - M09	PM10 - Particulate Matter <= 10 Microns	Yes	Yes		No
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Yes	Yes		No
129-00-0	Pyrene	Yes	Yes		No
7446-09-5	Sulphur dioxide	Yes	Yes		No
NA - M08	Total Particulate Matter	Yes	Yes		No
NA - M16	Volatile Organic Compounds (VOCs)	Yes	Yes		No

General Information about the Substance - Releases and Transfers of the Substance

CAS RN	Substance Name	Was the substance released on-site	The substance will be reported as the sum of releases to all media (total of 1 tonne or less)	1 tonne or more of a Part 5 Substance (Speciated VOC) was released to air
208-96-8	Acenaphthylene	Yes	No	No

CAS RN	Substance Name	Was the substance released on-site	The substance will be reported as the sum of releases to all media (total of 1 tonne or less)	1 tonne or more of a Part 5 Substance (Speciated VOC) was released to air
NA - 16	Ammonia (total)	Yes	No	No
56-55-3	Benzo(a)anthracene	Yes	No	No
218-01-9	Benzo(a)phenanthrene	Yes	No	No
50-32-8	Benzo(a)pyrene	Yes	No	No
205-99-2	Benzo(b)fluoranthene	Yes	No	No
191-24-2	Benzo(g,h,i)perylene	Yes	No	No
207-08-9	Benzo(k)fluoranthene	Yes	No	No
53-70-3	Dibenzo(a,h)anthracene	Yes	No	No
NA - D/F	Dioxins and furans - total	Yes	No	No
206-44-0	Fluoranthene	Yes	No	No
118-74-1	Hexachlorobenzene	Yes	No	No
193-39-5	Indeno(1,2,3-c,d)pyrene	Yes	No	No
NA - 08	Lead (and its compounds)	Yes	No	No
NA - 10	Mercury (and its compounds)	Yes	No	No
85-01-8	Phenanthrene	Yes	No	No
129-00-0	Pyrene	Yes	No	No
NA - M16	Volatile Organic Compounds (VOCs)		No	No

General Information about the Substance - Disposals and Off-site Transfers for Recycling

CAS RN	Substance Name	Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal	Is the facility required to report on disposals of tailings and waste rock for the selected reporting period	Was the substance transferred off-site for recycling
208-96-8	Acenaphthylene	No	No	No
NA - 16	Ammonia (total)	No	No	No
56-55-3	Benzo(a)anthracene	No	No	No
218-01-9	Benzo(a)phenanthrene	No	No	No
50-32-8	Benzo(a)pyrene	No	No	No
205-99-2	Benzo(b)fluoranthene	No	No	No
191-24-2	Benzo(g,h,i)perylene	No	No	No
207-08-9	Benzo(k)fluoranthene	No	No	No
53-70-3	Dibenzo(a,h)anthracene	No	No	No
NA - D/F	Dioxins and furans - total	No	No	No
206-44-0	Fluoranthene	No	No	No
118-74-1	Hexachlorobenzene	No	No	No
193-39-5	Indeno(1,2,3-c,d)pyrene	No	No	No
NA - 08	Lead (and its compounds)	No	No	No
NA - 10	Mercury (and its compounds)	No	No	No
85-01-8	Phenanthrene	No	No	No
129-00-0	Pyrene	No	No	No
NA - M16	Volatile Organic Compounds (VOCs)			

General Information about the Substance - Nature of Activities

CAS RN	Substance Name	Manufacture the Substance	Process the Substance	Otherwise Use of the Substance
208-96-8	Acenaphthylene	As a by-product		
NA - 16	Ammonia (total)	As a by-product		
56-55-3	Benzo(a)anthracene	As a by-product		
218-01-9	Benzo(a)phenanthrene	As a by-product		
50-32-8	Benzo(a)pyrene	As a by-product		
205-99-2	Benzo(b)fluoranthene	As a by-product		
191-24-2	Benzo(g,h,i)perylene	As a by-product		
207-08-9	Benzo(k)fluoranthene	As a by-product		
53-70-3	Dibenzo(a,h)anthracene	As a by-product		
NA - D/F	Dioxins and furans - total	As a by-product		
206-44-0	Fluoranthene	As a by-product		

CAS RN	Substance Name	Manufacture the Substance	Process the Substance	Otherwise Use of the Substance
118-74-1	Hexachlorobenzene	As a by-product		
193-39-5	Indeno(1,2,3-c,d)pyrene	As a by-product		
NA - 08	Lead (and its compounds)	As a by-product		
NA - 10	Mercury (and its compounds)	As a by-product		
85-01-8	Phenanthrene	As a by-product		
129-00-0	Pyrene	As a by-product		
NA - M16	Volatile Organic Compounds (VOCs)			

TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
208-96-8	Acenaphthylene	Use	0 kg	Yes
208-96-8	Acenaphthylene	Creation	21.558 kg	Yes
208-96-8	Acenaphthylene	Contained in Product	0 kg	Yes
NA - 16	Ammonia (total)	Use	0.000 tonnes	Yes
NA - 16	Ammonia (total)	Creation	21.594 tonnes	Yes
NA - 16	Ammonia (total)	Contained in Product	0.000 tonnes	Yes
56-55-3	Benzo(a)anthracene	Use	0 kg	Yes
56-55-3	Benzo(a)anthracene	Creation	0.008 kg	Yes
56-55-3	Benzo(a)anthracene	Contained in Product	0 kg	Yes
218-01-9	Benzo(a)phenanthrene	Use	0 kg	Yes
218-01-9	Benzo(a)phenanthrene	Creation	0.03 kg	Yes
218-01-9	Benzo(a)phenanthrene	Contained in Product	0 kg	Yes
50-32-8	Benzo(a)pyrene	Use	0 kg	Yes
50-32-8	Benzo(a)pyrene	Creation	0.024 kg	Yes
50-32-8	Benzo(a)pyrene	Contained in Product	0 kg	Yes
205-99-2	Benzo(b)fluoranthene	Use	0 kg	Yes
205-99-2	Benzo(b)fluoranthene	Creation	0.102 kg	Yes
205-99-2	Benzo(b)fluoranthene	Contained in Product	0 kg	Yes
191-24-2	Benzo(g,h,i)perylene	Use	0 kg	Yes
191-24-2	Benzo(g,h,i)perylene	Creation	0.014 kg	Yes
191-24-2	Benzo(g,h,i)perylene	Contained in Product	0 kg	Yes
207-08-9	Benzo(k)fluoranthene	Use	0 kg	Yes
207-08-9	Benzo(k)fluoranthene	Creation	0.028 kg	Yes
207-08-9	Benzo(k)fluoranthene	Contained in Product	0 kg	Yes
630-08-0	Carbon monoxide	Use	0.000 tonnes	Yes
630-08-0	Carbon monoxide	Creation	205.880 tonnes	Yes
630-08-0	Carbon monoxide	Contained in Product		
53-70-3	Dibenzo(a,h)anthracene	Use	0 kg	Yes
53-70-3	Dibenzo(a,h)anthracene	Creation	0.113 kg	Yes
53-70-3	Dibenzo(a,h)anthracene	Contained in Product	0 kg	Yes
NA - D/F	Dioxins and furans - total	Use	0.000 g TEQ(ET)	Yes
NA - D/F	Dioxins and furans - total	Creation	0.0008 g TEQ(ET)	Yes
NA - D/F	Dioxins and furans - total	Contained in Product	0.000 g TEQ(ET)	Yes
206-44-0	Fluoranthene	Use	0 kg	Yes
206-44-0	Fluoranthene	Creation	1.608 kg	Yes
206-44-0	Fluoranthene	Contained in Product	0 kg	Yes
118-74-1	Hexachlorobenzene	Use	0 grams	Yes
118-74-1	Hexachlorobenzene	Creation	0 grams	Yes
118-74-1	Hexachlorobenzene	Contained in Product	0 grams	Yes
193-39-5	Indeno(1,2,3-c,d)pyrene	Use	0 kg	Yes
193-39-5	Indeno(1,2,3-c,d)pyrene	Creation	0.016 kg	Yes
193-39-5	Indeno(1,2,3-c,d)pyrene	Contained in Product	0 kg	Yes
NA - 08	Lead (and its compounds)	Use	9901.6 kg	Yes
NA - 08	Lead (and its compounds)	Creation	0 kg	Yes
NA - 08	Lead (and its compounds)	Contained in Product	9770 kg	Yes
NA - 10	Mercury (and its compounds)	Use	70.8 kg	Yes
NA - 10	Mercury (and its compounds)	Creation	0 kg	Yes
NA - 10	Mercury (and its compounds)	Contained in Product	31 kg	Yes
11104-93-1	Nitrogen oxides (expressed as NO2)	Use	0.000 tonnes	Yes
11104-93-1	Nitrogen oxides (expressed as NO2)	Creation	2002.841 tonnes	Yes

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
11104-93-1	Nitrogen oxides (expressed as NO2)	Contained in Product		
85-01-8	Phenanthrene	Use	0 kg	Yes
85-01-8	Phenanthrene	Creation	73.078 kg	Yes
85-01-8	Phenanthrene	Contained in Product	0 kg	Yes
NA - M09	PM10 - Particulate Matter <= 10 Microns	Use	0.000 tonnes	Yes
NA - M09	PM10 - Particulate Matter <= 10 Microns	Creation	164.178 tonnes	Yes
NA - M09	PM10 - Particulate Matter <= 10 Microns	Contained in Product		
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Use	0.000 tonnes	Yes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Creation	114.291 tonnes	Yes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Contained in Product		
129-00-0	Pyrene	Use	0 kg	Yes
129-00-0	Pyrene	Creation	0.804 kg	Yes
129-00-0	Pyrene	Contained in Product	0 kg	Yes
7446-09-5	Sulphur dioxide	Use	0.000 tonnes	Yes
7446-09-5	Sulphur dioxide	Creation	2274.048 tonnes	Yes
7446-09-5	Sulphur dioxide	Contained in Product		
NA - M08	Total Particulate Matter	Use	0.000 tonnes	Yes
NA - M08	Total Particulate Matter	Creation	198.504 tonnes	Yes
NA - M08	Total Particulate Matter	Contained in Product		

TRA Quantifications - Dioxins and Furans Breakdown List

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	Use	0 grams
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	Creation	0 grams
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	Contained in Product	0 grams
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	Use	0 grams
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	Creation	0.04 grams
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	Contained in Product	0 grams
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	Use	0 grams
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	Creation	0 grams
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	Contained in Product	0 grams
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	Use	0 grams
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	Creation	0 grams
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	Contained in Product	0 grams
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	Use	0 grams
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	Creation	0 grams
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	Contained in Product	0 grams
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	Use	0 grams
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	Creation	0 grams
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	Contained in Product	0 grams
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	Use	0 grams
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	Creation	0 grams
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	Contained in Product	0 grams
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	Use	0 grams
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	Creation	0 grams
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	Contained in Product	0 grams
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	Use	0 grams
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	Creation	0 grams
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	Contained in Product	0 grams
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	Use	0 grams
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	Creation	0 grams
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	Contained in Product	0 grams
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	Use	0 grams
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	Creation	0 grams
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	Contained in Product	0 grams
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	Use	0 grams
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	Creation	0 grams
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	Contained in Product	0 grams
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	Use	0 grams
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	Creation	0 grams

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	Contained in Product	0 grams
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	Use	0 grams
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	Creation	0 grams
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	Contained in Product	0 grams
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	Use	0 grams
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	Creation	0 grams
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	Contained in Product	0 grams
39001-02-0	Octachlorodibenzofuran	Use	0 grams
39001-02-0	Octachlorodibenzofuran	Creation	0 grams
39001-02-0	Octachlorodibenzofuran	Contained in Product	0 grams
3268-87-9	Octachlorodibenzo-p-dioxin	Use	0 grams
3268-87-9	Octachlorodibenzo-p-dioxin	Creation	0.37 grams
3268-87-9	Octachlorodibenzo-p-dioxin	Contained in Product	0 grams

TRA Quantifications - Others

CAS RN	Substance Name	Change in Method of Quantification	Reasons for Change	Description of how the change impact tracking and quantification of the substance	Description of how an incident(s) affected quantifications	Significant Process Change
208-96-8	Acenaphthylene					No
NA - 16	Ammonia (total)					No
56-55-3	Benzo(a)anthracene					No
218-01-9	Benzo(a)phenanthrene					No
50-32-8	Benzo(a)pyrene					No
205-99-2	Benzo(b)fluoranthene					No
191-24-2	Benzo(g,h,i)perylene					No
207-08-9	Benzo(k)fluoranthene					No
630-08-0	Carbon monoxide					No
53-70-3	Dibenzo(a,h)anthracene					No
NA - D/F	Dioxins and furans - total					No
206-44-0	Fluoranthene					No
118-74-1	Hexachlorobenzene					No
193-39-5	Indeno(1,2,3-c,d)pyrene					No
NA - 08	Lead (and its compounds)					No
NA - 10	Mercury (and its compounds)					No
11104-93-1	Nitrogen oxides (expressed as NO2)					No
85-01-8	Phenanthrene					No
NA - M09	PM10 - Particulate Matter <= 10 Microns					No
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns					No
129-00-0	Pyrene					No
7446-09-5	Sulphur dioxide					No
NA - M08	Total Particulate Matter					No

On-site Releases - Releases to air

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
208-96-8	Acenaphthylene	Stack or Point Releases	E2 - Published Emission Factors		21.558 kg
NA - 16	Ammonia (total)	Stack or Point Releases	E2 - Published Emission Factors		21.594 tonnes
56-55-3	Benzo(a)anthracene	Stack or Point Releases	E2 - Published Emission Factors		0.008 kg
218-01-9	Benzo(a)phenanthrene	Stack or Point Releases	E2 - Published Emission Factors		0.03 kg
50-32-8	Benzo(a)pyrene	Stack or Point Releases	E2 - Published Emission Factors		0.024 kg
205-99-2	Benzo(b)fluoranthene	Stack or Point Releases	E2 - Published Emission Factors		0.102 kg
191-24-2	Benzo(g,h,i)perylene	Stack or Point Releases	E2 - Published Emission Factors		0.014 kg
207-08-9	Benzo(k)fluoranthene	Stack or Point Releases	E2 - Published Emission Factors		0.028 kg
630-08-0	Carbon monoxide	Stack or Point Releases	O - Engineering Estimates		205.880 tonnes
53-70-3	Dibenzo(a,h)anthracene	Stack or Point Releases	E2 - Published Emission Factors		0.113 kg
NA - D/F	Dioxins and furans - total	Stack or Point Releases	E2 - Published Emission Factors		0.0008 g TEQ(ET)
206-44-0	Fluoranthene	Stack or Point Releases	E2 - Published Emission Factors		1.608 kg

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
118-74-1	Hexachlorobenzene	Stack or Point Releases	E2 - Published Emission Factors		0 grams
193-39-5	Indeno(1,2,3-c,d)pyrene	Stack or Point Releases	E2 - Published Emission Factors		0.016 kg
NA - 08	Lead (and its compounds)	Stack or Point Releases	E2 - Published Emission Factors		132 kg
NA - 10	Mercury (and its compounds)	Stack or Point Releases	E2 - Published Emission Factors		40.193 kg
11104-93-1	Nitrogen oxides (expressed as NO2)	Stack or Point Releases	E2 - Published Emission Factors		2002.841 tonnes
85-01-8	Phenanthrene	Stack or Point Releases	E2 - Published Emission Factors		73.078 kg
NA - M09	PM10 - Particulate Matter <= 10 Microns	Stack or Point Releases	E2 - Published Emission Factors		164.178 tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Stack or Point Releases	E2 - Published Emission Factors		114.291 tonnes
129-00-0	Pyrene	Stack or Point Releases	E2 - Published Emission Factors		0.804 kg
7446-09-5	Sulphur dioxide	Stack or Point Releases	E2 - Published Emission Factors		2274.048 tonnes
NA - M08	Total Particulate Matter	Stack or Point Releases	E2 - Published Emission Factors		198.504 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Stack or Point Releases	E2 - Published Emission Factors		37.708 tonnes

On-site Releases - Releases to air - Total

CAS RN	Substance Name	Total - Releases to Air
208-96-8	Acenaphthylene	21.558 kg
NA - 16	Ammonia (total)	21.594 tonnes
56-55-3	Benzo(a)anthracene	0.008 kg
218-01-9	Benzo(a)phenanthrene	0.03 kg
50-32-8	Benzo(a)pyrene	0.024 kg
205-99-2	Benzo(b)fluoranthene	0.102 kg
191-24-2	Benzo(g,h,i)perylene	0.014 kg
207-08-9	Benzo(k)fluoranthene	0.028 kg
630-08-0	Carbon monoxide	205.880 tonnes
53-70-3	Dibenzo(a,h)anthracene	0.113 kg
NA - D/F	Dioxins and furans - total	0.0008 g TEQ(ET)
206-44-0	Fluoranthene	1.608 kg
118-74-1	Hexachlorobenzene	0 grams
193-39-5	Indeno(1,2,3-c,d)pyrene	0.016 kg
NA - 08	Lead (and its compounds)	132 kg
NA - 10	Mercury (and its compounds)	40.193 kg
11104-93-1	Nitrogen oxides (expressed as NO2)	2002.841 tonnes
85-01-8	Phenanthrene	73.078 kg
NA - M09	PM10 - Particulate Matter <= 10 Microns	164.178 tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	114.291 tonnes
129-00-0	Pyrene	0.804 kg
7446-09-5	Sulphur dioxide	2274.048 tonnes
NA - M08	Total Particulate Matter	198.504 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	37.708 tonnes

On-site Releases - Releases to air - Releases from Stacks equal to or greater than 50m

CAS RN	Substance Name	Stack Name	Quantity	Height (m)	Diameter (m)	Exit Velocity (m/s)	Exit Temperature (°C)
11104-93-1	Nitrogen oxides (expressed as NO2)	Stack 48 - Kiln #1	173.826 tonnes	60.2000	1.8300	16.700	300.000
11104-93-1	Nitrogen oxides (expressed as NO2)	Stack 44 - Kiln #2	1811.178 tonnes	109.6700	3.6000	7.100	310.000
630-08-0	Carbon monoxide	Stack 48 - Kiln #1	10.365 tonnes	60.2000	1.8300	16.700	300.000
630-08-0	Carbon monoxide	Stack 44 - Kiln #2	192.780 tonnes	109.6700	3.6000	7.100	310.000
7446-09-5	Sulphur dioxide	Stack 48 - Kiln #1	590.852 tonnes	60.2000	1.8300	16.700	300.000
7446-09-5	Sulphur dioxide	Stack 44 - Kiln #2	1518.016 tonnes	109.6700	3.6000	7.100	310.000
NA - M08	Total Particulate Matter	Stack 48 - Kiln #1	25.039 tonnes	60.2000	1.8300	16.700	300.000
NA - M08	Total Particulate Matter	Stack 44 - Kiln #2	88.250 tonnes	109.6700	3.6000	7.100	310.000
NA - M09	PM10 - Particulate Matter <= 10 Microns	Stack 48 - Kiln #1	24.185 tonnes	60.2000	1.8300	16.700	300.000
NA - M09	PM10 - Particulate Matter <= 10 Microns	Stack 44 - Kiln #2	84.435 tonnes	109.6700	3.6000	7.100	310.000
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Stack 48 - Kiln #1	20.021 tonnes	60.2000	1.8300	16.700	300.000

CAS RN	Substance Name	Stack Name	Quantity	Height (m)	Diameter (m)	Exit Velocity (m/s)	Exit Temperature (°C)
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Stack 44 - Kiln #2	65.852 tonnes	109.6700	3.6000	7.100	310.000
NA - M16	Volatile Organic Compounds (VOCs)	Stack 48 - Kiln #1	1.783 tonnes	60.2000	1.8300	16.700	300.000
NA - M16	Volatile Organic Compounds (VOCs)	Stack 44 - Kiln #2	35.421 tonnes	109.6700	3.6000	7.100	310.000

On-site Releases - Releases to air - Dioxins and Furans Breakdown List

Category	CAS RN	Substance Name	Quantity
Stack or Point Releases	67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0 grams
Stack or Point Releases	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.04 grams
Stack or Point Releases	55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0 grams
Stack or Point Releases	70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	0 grams
Stack or Point Releases	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0 grams
Stack or Point Releases	57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	0 grams
Stack or Point Releases	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0 grams
Stack or Point Releases	72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0 grams
Stack or Point Releases	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0 grams
Stack or Point Releases	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0 grams
Stack or Point Releases	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0 grams
Stack or Point Releases	60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	0 grams
Stack or Point Releases	57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0 grams
Stack or Point Releases	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0 grams
Stack or Point Releases	1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0 grams
Stack or Point Releases	39001-02-0	Octachlorodibenzofuran	0 grams
Stack or Point Releases	3268-87-9	Octachlorodibenzo-p-dioxin	0.37 grams

On-site Releases - Total

CAS RN	Substance Name	Total releases
208-96-8	Acenaphthylene	21.558 kg
NA - 16	Ammonia (total)	21.594 tonnes
56-55-3	Benzo(a)anthracene	0.008 kg
218-01-9	Benzo(a)phenanthrene	0.03 kg
50-32-8	Benzo(a)pyrene	0.024 kg
205-99-2	Benzo(b)fluoranthene	0.102 kg
191-24-2	Benzo(g,h,i)perylene	0.014 kg
207-08-9	Benzo(k)fluoranthene	0.028 kg
53-70-3	Dibenzo(a,h)anthracene	0.113 kg
NA - D/F	Dioxins and furans - total	0.0008 g TEQ(ET)
206-44-0	Fluoranthene	1.608 kg
118-74-1	Hexachlorobenzene	0 grams
193-39-5	Indeno(1,2,3-c,d)pyrene	0.016 kg
NA - 08	Lead (and its compounds)	132 kg
NA - 10	Mercury (and its compounds)	40.193 kg
85-01-8	Phenanthrene	73.078 kg
129-00-0	Pyrene	0.804 kg

On-site Releases - Quarterly Breakdown of Annual Releases

CAS RN	Substance Name	Quarter 1	Quarter 2	Quarter 3	Quarter 4
208-96-8	Acenaphthylene	25	25	25	25
NA - 16	Ammonia (total)	25	25	25	25
56-55-3	Benzo(a)anthracene	25	25	25	25
218-01-9	Benzo(a)phenanthrene	25	25	25	25
50-32-8	Benzo(a)pyrene	25	25	25	25
205-99-2	Benzo(b)fluoranthene	25	25	25	25
191-24-2	Benzo(g,h,i)perylene	25	25	25	25
207-08-9	Benzo(k)fluoranthene	25	25	25	25
53-70-3	Dibenzo(a,h)anthracene	25	25	25	25
NA - D/F	Dioxins and furans - total	25	25	25	25
206-44-0	Fluoranthene	25	25	25	25

CAS RN	Substance Name	Quarter 1	Quarter 2	Quarter 3	Quarter 4
193-39-5	Indeno(1,2,3-c,d)pyrene	25	25	25	25
NA - 08	Lead (and its compounds)	25	25	25	25
NA - 10	Mercury (and its compounds)	25	25	25	25
85-01-8	Phenanthrene	25	25	25	25
129-00-0	Pyrene	25	25	25	25

On-site Releases - Monthly Breakdown of Annual Releases

CAS RN	Substance Name	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
630-08-0	Carbon monoxide	8.88	7.52	6.74	8.15	9.11	9.17	9.38	8.93	6.57	11.34	5.94	8.27
11104-93-1	Nitrogen oxides (expressed as NO2)	8.88	7.52	6.74	8.15	9.11	9.17	9.38	8.93	6.57	11.34	5.94	8.27
NA - M09	PM10 - Particulate Matter <= 10 Microns	8.88	7.52	6.74	8.16	9.11	9.17	9.38	8.93	6.57	11.34	5.93	8.27
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	8.88	7.52	6.74	8.16	9.11	9.17	9.38	8.93	6.57	11.34	5.93	8.27
7446-09-5	Sulphur dioxide	8.88	7.52	6.74	8.16	9.11	9.17	9.38	8.93	6.57	11.34	5.93	8.27
NA - M08	Total Particulate Matter	8.88	7.52	6.74	8.15	9.11	9.17	9.38	8.93	6.57	11.34	5.94	8.27
NA - M16	Volatile Organic Compounds (VOCs)	8.88	7.52	6.74	8.16	9.11	9.17	9.38	8.93	6.57	11.34	5.93	8.27

On-site Releases - Reasons for Changes in Quantities Released from Previous Year

CAS RN	Substance Name	Reasons for Changes in Quantities from Previous Year	Comments
11104-93-1	Nitrogen oxides (expressed as NO2)	Changes in production levels	
118-74-1	Hexachlorobenzene	No significant change (i.e. < 10%) or no change	
129-00-0	Pyrene	No significant change (i.e. < 10%) or no change	
191-24-2	Benzo(g,h,i)perylene	No significant change (i.e. < 10%) or no change	
193-39-5	Indeno(1,2,3-c,d)pyrene	No significant change (i.e. < 10%) or no change	
205-99-2	Benzo(b)fluoranthene	No significant change (i.e. < 10%) or no change	
206-44-0	Fluoranthene	Changes in production levels	
207-08-9	Benzo(k)fluoranthene	No significant change (i.e. < 10%) or no change	
208-96-8	Acenaphthylene	Changes in production levels	
218-01-9	Benzo(a)phenanthrene	No significant change (i.e. < 10%) or no change	
50-32-8	Benzo(a)pyrene	No significant change (i.e. < 10%) or no change	
53-70-3	Dibenzo(a,h)anthracene	No significant change (i.e. < 10%) or no change	
56-55-3	Benzo(a)anthracene	No significant change (i.e. < 10%) or no change	
630-08-0	Carbon monoxide	Changes in production levels	
7446-09-5	Sulphur dioxide	No significant change (i.e. < 10%) or no change	
85-01-8	Phenanthrene	Changes in production levels	
NA - 08	Lead (and its compounds)	Changes in production levels	
NA - 10	Mercury (and its compounds)	Changes in production levels	
NA - 16	Ammonia (total)	Changes in production levels	
NA - D/F	Dioxins and furans - total	Changes in production levels	
NA - M08	Total Particulate Matter	No significant change (i.e. < 10%) or no change	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No significant change (i.e. < 10%) or no change	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No significant change (i.e. < 10%) or no change	
NA - M16	Volatile Organic Compounds (VOCs)	No significant change (i.e. < 10%) or no change	

Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities from Previous Year	Comments
118-74-1	Hexachlorobenzene		No significant change (i.e. < 10%) or no change	
129-00-0	Pyrene		No significant change (i.e. < 10%) or no change	
191-24-2	Benzo(g,h,i)perylene		No significant change (i.e. < 10%) or no change	
193-39-5	Indeno(1,2,3-c,d)pyrene		No significant change (i.e. < 10%) or no change	

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities from Previous Year	Comments
205-99-2	Benzo(b)fluoranthene		No significant change (i.e. < 10%) or no change	
206-44-0	Fluoranthene		No significant change (i.e. < 10%) or no change	
207-08-9	Benzo(k)fluoranthene		No significant change (i.e. < 10%) or no change	
208-96-8	Acenaphthylene		No significant change (i.e. < 10%) or no change	
218-01-9	Benzo(a)phenanthrene		No significant change (i.e. < 10%) or no change	
50-32-8	Benzo(a)pyrene		No significant change (i.e. < 10%) or no change	
53-70-3	Dibenzo(a,h)anthracene		No significant change (i.e. < 10%) or no change	
56-55-3	Benzo(a)anthracene		No significant change (i.e. < 10%) or no change	
85-01-8	Phenanthrene		No significant change (i.e. < 10%) or no change	
NA - 08	Lead (and its compounds)		No significant change (i.e. < 10%) or no change	
NA - 10	Mercury (and its compounds)		No significant change (i.e. < 10%) or no change	
NA - 16	Ammonia (total)		No significant change (i.e. < 10%) or no change	
NA - D/F	Dioxins and furans - total		No significant change (i.e. < 10%) or no change	

Recycling - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Recycled	Reasons for Changes in Quantities Recycled from Previous Year	Comments
118-74-1	Hexachlorobenzene		No significant change (i.e. < 10%) or no change	
129-00-0	Pyrene		No significant change (i.e. < 10%) or no change	
191-24-2	Benzo(g,h,i)perylene		No significant change (i.e. < 10%) or no change	
193-39-5	Indeno(1,2,3-c,d)pyrene		No significant change (i.e. < 10%) or no change	
205-99-2	Benzo(b)fluoranthene		No significant change (i.e. < 10%) or no change	
206-44-0	Fluoranthene		No significant change (i.e. < 10%) or no change	
207-08-9	Benzo(k)fluoranthene		No significant change (i.e. < 10%) or no change	
208-96-8	Acenaphthylene		No significant change (i.e. < 10%) or no change	
218-01-9	Benzo(a)phenanthrene		No significant change (i.e. < 10%) or no change	
50-32-8	Benzo(a)pyrene		No significant change (i.e. < 10%) or no change	
53-70-3	Dibenzo(a,h)anthracene		No significant change (i.e. < 10%) or no change	
56-55-3	Benzo(a)anthracene		No significant change (i.e. < 10%) or no change	
85-01-8	Phenanthrene		No significant change (i.e. < 10%) or no change	
NA - 08	Lead (and its compounds)		No significant change (i.e. < 10%) or no change	
NA - 10	Mercury (and its compounds)		No significant change (i.e. < 10%) or no change	
NA - 16	Ammonia (total)		No significant change (i.e. < 10%) or no change	
NA - D/F	Dioxins and furans - total		No significant change (i.e. < 10%) or no change	

Comparison Report - Enters, Creation, Contained in Product

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	Yes	Enters the facility (Use)	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	Yes	Creation	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	Yes	Contained in Product	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	Yes	Enters the facility (Use)	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	Yes	Creation	0.04 g TEQ(ET)	0.04 g TEQ(ET)	2015	0.00	0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	Yes	Contained in Product	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	Yes	Enters the facility (Use)	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	Yes	Creation	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	Yes	Contained in Product	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	Yes	Enters the facility (Use)	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	Yes	Creation	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	Yes	Contained in Product	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	Yes	Enters the facility (Use)	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	Yes	Creation	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	Yes	Contained in Product	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	Yes	Enters the facility (Use)	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	Yes	Creation	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	Yes	Contained in Product	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	Yes	Enters the facility (Use)	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	Yes	Creation	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	Yes	Contained in Product	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	Yes	Enters the facility (Use)	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	Yes	Creation	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	Yes	Contained in Product	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	Yes	Enters the facility (Use)	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	Yes	Creation	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	Yes	Contained in Product	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	Yes	Enters the facility (Use)	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	Yes	Creation	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	Yes	Contained in Product	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	Yes	Enters the facility (Use)	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	Yes	Creation	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	Yes	Contained in Product	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	Yes	Enters the facility (Use)	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	Yes	Creation	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	Yes	Contained in Product	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	Yes	Enters the facility (Use)	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	Yes	Creation	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	Yes	Contained in Product	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	Yes	Enters the facility (Use)	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	Yes	Creation	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	Yes	Contained in Product	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	Yes	Enters the facility (Use)	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	Yes	Creation	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	Yes	Contained in Product	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
208-96-8	Acenaphthylene	No	Enters the facility (Use)	0 kg	0 kg	2015	0	
208-96-8	Acenaphthylene	No	Creation	21.558 kg	20.861 kg	2015	0.697	3.34
208-96-8	Acenaphthylene	No	Contained in Product	0 kg	0 kg	2015	0	
NA - 16	Ammonia (total)	No	Enters the facility (Use)	0.000 tonnes	0.000 tonnes	2015	0.000	
NA - 16	Ammonia (total)	No	Creation	21.594 tonnes	20.897 tonnes	2015	0.697	3.34
NA - 16	Ammonia (total)	No	Contained in Product	0.000 tonnes	0.000 tonnes	2015	0.000	

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
56-55-3	Benzo(a)anthracene	No	Enters the facility (Use)	0 kg	0 kg	2015	0	
56-55-3	Benzo(a)anthracene	No	Creation	0.008 kg	0.0074 kg	2015	0.0006	8.11
56-55-3	Benzo(a)anthracene	No	Contained in Product	0 kg	0 kg	2015	0	
218-01-9	Benzo(a)phenanthrene	No	Enters the facility (Use)	0 kg	0 kg	2015	0	
218-01-9	Benzo(a)phenanthrene	No	Creation	0.03 kg	0.029 kg	2015	0.001	3.45
218-01-9	Benzo(a)phenanthrene	No	Contained in Product	0 kg	0 kg	2015	0	
50-32-8	Benzo(a)pyrene	No	Enters the facility (Use)	0 kg	0 kg	2015	0	
50-32-8	Benzo(a)pyrene	No	Creation	0.024 kg	0.023 kg	2015	0.001	4.35
50-32-8	Benzo(a)pyrene	No	Contained in Product	0 kg	0 kg	2015	0	
205-99-2	Benzo(b)fluoranthene	No	Enters the facility (Use)	0 kg	0 kg	2015	0	
205-99-2	Benzo(b)fluoranthene	No	Creation	0.102 kg	0.099 kg	2015	0.003	3.03
205-99-2	Benzo(b)fluoranthene	No	Contained in Product	0 kg	0 kg	2015	0	
191-24-2	Benzo(g,h,i)perylene	No	Enters the facility (Use)	0 kg	0 kg	2015	0	
191-24-2	Benzo(g,h,i)perylene	No	Creation	0.014 kg	0.014 kg	2015	0.000	0
191-24-2	Benzo(g,h,i)perylene	No	Contained in Product	0 kg	0 kg	2015	0	
207-08-9	Benzo(k)fluoranthene	No	Enters the facility (Use)	0 kg	0 kg	2015	0	
207-08-9	Benzo(k)fluoranthene	No	Creation	0.028 kg	0.027 kg	2015	0.001	3.70
207-08-9	Benzo(k)fluoranthene	No	Contained in Product	0 kg	0 kg	2015	0	
630-08-0	Carbon monoxide	No	Enters the facility (Use)	0.000 tonnes	0.000 tonnes	2015	0.000	
630-08-0	Carbon monoxide	No	Creation	205.880 tonnes	200.377 tonnes	2015	5.503	2.75
53-70-3	Dibenzo(a,h)anthracene	No	Enters the facility (Use)	0 kg	0 kg	2015	0	
53-70-3	Dibenzo(a,h)anthracene	No	Creation	0.113 kg	0.110 kg	2015	0.003	2.73
53-70-3	Dibenzo(a,h)anthracene	No	Contained in Product	0 kg	0 kg	2015	0	
206-44-0	Fluoranthene	No	Enters the facility (Use)	0 kg	0 kg	2015	0	
206-44-0	Fluoranthene	No	Creation	1.608 kg	1.556 kg	2015	0.052	3.34
206-44-0	Fluoranthene	No	Contained in Product	0 kg	0 kg	2015	0	
118-74-1	Hexachlorobenzene	No	Enters the facility (Use)	0 grams	0 grams	2015	0	
118-74-1	Hexachlorobenzene	No	Creation	0 grams	0 grams	2015	0	
118-74-1	Hexachlorobenzene	No	Contained in Product	0 grams	0 grams	2015	0	
193-39-5	Indeno(1,2,3-c,d)pyrene	No	Enters the facility (Use)	0 kg	0 kg	2015	0	
193-39-5	Indeno(1,2,3-c,d)pyrene	No	Creation	0.016 kg	0.015 kg	2015	0.001	6.67
193-39-5	Indeno(1,2,3-c,d)pyrene	No	Contained in Product	0 kg	0 kg	2015	0	
NA - 08	Lead (and its compounds)	No	Enters the facility (Use)	9901.6 kg	9901.6 kg	2015	0.0	0
NA - 08	Lead (and its compounds)	No	Creation	0 kg	0 kg	2015	0	
NA - 08	Lead (and its compounds)	No	Contained in Product	9770 kg	9774 kg	2015	-4	-0.04
NA - 10	Mercury (and its compounds)	No	Enters the facility (Use)	70.8 kg	70.8 kg	2015	0.0	0
NA - 10	Mercury (and its compounds)	No	Creation	0 kg	0 kg	2015	0	
NA - 10	Mercury (and its compounds)	No	Contained in Product	31 kg	32 kg	2015	-1	-3.12
11104-93-1	Nitrogen oxides (expressed as NO2)	No	Enters the facility (Use)	0.000 tonnes	0.000 tonnes	2015	0.000	
11104-93-1	Nitrogen oxides (expressed as NO2)	No	Creation	2002.841 tonnes	1937.891 tonnes	2015	64.950	3.35
39001-02-0	Octachlorodibenzofuran	Yes	Enters the facility (Use)	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
39001-02-0	Octachlorodibenzofuran	Yes	Creation	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
39001-02-0	Octachlorodibenzofuran	Yes	Contained in Product	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
3268-87-9	Octachlorodibenzo-p-dioxin	Yes	Enters the facility (Use)	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
3268-87-9	Octachlorodibenzo-p-dioxin	Yes	Creation	0.37 g TEQ(ET)	0.32 g TEQ(ET)	2015	0.05	15.62
3268-87-9	Octachlorodibenzo-p-dioxin	Yes	Contained in Product	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
85-01-8	Phenanthrene	No	Enters the facility (Use)	0 kg	0 kg	2015	0	
85-01-8	Phenanthrene	No	Creation	73.078 kg	70.716 kg	2015	2.362	3.34
85-01-8	Phenanthrene	No	Contained in Product	0 kg	0 kg	2015	0	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Enters the facility (Use)	0.000 tonnes	0.000 tonnes	2015	0.000	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Creation	164.178 tonnes	155.479 tonnes	2015	8.699	5.59
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Enters the facility (Use)	0.000 tonnes	0.000 tonnes	2015	0.000	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Creation	114.291 tonnes	110.695 tonnes	2015	3.596	3.25
129-00-0	Pyrene	No	Enters the facility (Use)	0 kg	0 kg	2015	0	
129-00-0	Pyrene	No	Creation	0.804 kg	0.778 kg	2015	0.026	3.34
129-00-0	Pyrene	No	Contained in Product	0 kg	0 kg	2015	0	
7446-09-5	Sulphur dioxide	No	Enters the facility (Use)	0.000 tonnes	0.000 tonnes	2015	0.000	
7446-09-5	Sulphur dioxide	No	Creation	2274.048 tonnes	2246.993 tonnes	2015	27.055	1.20
NA - M08	Total Particulate Matter	No	Enters the facility (Use)	0.000 tonnes	0.000 tonnes	2015	0.000	
NA - M08	Total Particulate Matter	No	Creation	198.504 tonnes	181.570 tonnes	2015	16.934	9.33

Comparison Report - Enters, Creation, Contained in Product : Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
208-96-8	Acenaphthylene	No reasons - quantities approximately the same	
NA - 16	Ammonia (total)	No reasons - quantities approximately the same	
56-55-3	Benzo(a)anthracene	No reasons - quantities approximately the same	
218-01-9	Benzo(a)phenanthrene	No reasons - quantities approximately the same	
50-32-8	Benzo(a)pyrene	No reasons - quantities approximately the same	
205-99-2	Benzo(b)fluoranthene	No reasons - quantities approximately the same	
191-24-2	Benzo(g,h,i)perylene	No reasons - quantities approximately the same	
207-08-9	Benzo(k)fluoranthene	No reasons - quantities approximately the same	
630-08-0	Carbon monoxide	No reasons - quantities approximately the same	
53-70-3	Dibenzo(a,h)anthracene	No reasons - quantities approximately the same	
NA - D/F	Dioxins and furans - total	Increase in production levels	
206-44-0	Fluoranthene	No reasons - quantities approximately the same	
118-74-1	Hexachlorobenzene	No reasons - quantities approximately the same	
193-39-5	Indeno(1,2,3-c,d)pyrene	No reasons - quantities approximately the same	
NA - 08	Lead (and its compounds)	No reasons - quantities approximately the same	
NA - 10	Mercury (and its compounds)	No reasons - quantities approximately the same	
11104-93-1	Nitrogen oxides (expressed as NO2)	No reasons - quantities approximately the same	
85-01-8	Phenanthrene	No reasons - quantities approximately the same	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No reasons - quantities approximately the same	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No reasons - quantities approximately the same	
129-00-0	Pyrene	No reasons - quantities approximately the same	
7446-09-5	Sulphur dioxide	No reasons - quantities approximately the same	
NA - M08	Total Particulate Matter	No reasons - quantities approximately the same	

Comparison Report - On-site Releases

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	Yes	Total Releases to Air	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	Yes	Total Releases to Air	0.04 g TEQ(ET)	0.04 g TEQ(ET)	2015	0.00	0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	Yes	Total Releases to Air	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	Yes	Total Releases to Air	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	Yes	Total Releases to Air	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	Yes	Total Releases to Air	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	Yes	Total Releases to Air	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	Yes	Total Releases to Air	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	Yes	Total Releases to Air	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	Yes	Total Releases to Air	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	Yes	Total Releases to Air	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	Yes	Total Releases to Air	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	Yes	Total Releases to Air	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	Yes	Total Releases to Air	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	Yes	Total Releases to Air	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
208-96-8	Acenaphthylene	No	Total Releases to Air	21.558 kg	20.861 kg	2015	0.697	3.34
208-96-8	Acenaphthylene	No	Total Releases to Water	0 kg	0 kg	2015	0	
208-96-8	Acenaphthylene	No	Total Releases to Land	0 kg	0 kg	2015	0	
208-96-8	Acenaphthylene	No	Total Releases to All Media	0 kg				
NA - 16	Ammonia (total)	No	Total Releases to Air	21.594 tonnes	20.897 tonnes	2015	0.697	3.34
NA - 16	Ammonia (total)	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
NA - 16	Ammonia (total)	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
NA - 16	Ammonia (total)	No	Total Releases to All Media	0 tonnes				
56-55-3	Benzo(a)anthracene	No	Total Releases to Air	0.008 kg	0.0074 kg	2015	0.0006	8.11
56-55-3	Benzo(a)anthracene	No	Total Releases to Water	0 kg	0 kg	2015	0	
56-55-3	Benzo(a)anthracene	No	Total Releases to Land	0 kg	0 kg	2015	0	
56-55-3	Benzo(a)anthracene	No	Total Releases to All Media	0 kg	0 kg	2015	0	
218-01-9	Benzo(a)phenanthrene	No	Total Releases to Air	0.03 kg	0.029 kg	2015	0.001	3.45
218-01-9	Benzo(a)phenanthrene	No	Total Releases to Water	0 kg	0 kg	2015	0	
218-01-9	Benzo(a)phenanthrene	No	Total Releases to Land	0 kg	0 kg	2015	0	
218-01-9	Benzo(a)phenanthrene	No	Total Releases to All Media	0 kg	0 kg	2015	0	
50-32-8	Benzo(a)pyrene	No	Total Releases to Air	0.024 kg	0.023 kg	2015	0.001	4.35
50-32-8	Benzo(a)pyrene	No	Total Releases to Water	0 kg	0 kg	2015	0	
50-32-8	Benzo(a)pyrene	No	Total Releases to Land	0 kg	0 kg	2015	0	
50-32-8	Benzo(a)pyrene	No	Total Releases to All Media	0 kg	0 kg	2015	0	
205-99-2	Benzo(b)fluoranthene	No	Total Releases to Air	0.102 kg	0.099 kg	2015	0.003	3.03
205-99-2	Benzo(b)fluoranthene	No	Total Releases to Water	0 kg	0 kg	2015	0	

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
205-99-2	Benzo(b)fluoranthene	No	Total Releases to Land	0 kg	0 kg	2015	0	
205-99-2	Benzo(b)fluoranthene	No	Total Releases to All Media	0 kg	0 kg	2015	0	
191-24-2	Benzo(g,h,i)perylene	No	Total Releases to Air	0.014 kg	0.014 kg	2015	0.000	0
191-24-2	Benzo(g,h,i)perylene	No	Total Releases to Water	0 kg	0 kg	2015	0	
191-24-2	Benzo(g,h,i)perylene	No	Total Releases to Land	0 kg	0 kg	2015	0	
191-24-2	Benzo(g,h,i)perylene	No	Total Releases to All Media	0 kg	0 kg	2015	0	
207-08-9	Benzo(k)fluoranthene	No	Total Releases to Air	0.028 kg	0.027 kg	2015	0.001	3.70
207-08-9	Benzo(k)fluoranthene	No	Total Releases to Water	0 kg	0 kg	2015	0	
207-08-9	Benzo(k)fluoranthene	No	Total Releases to Land	0 kg	0 kg	2015	0	
207-08-9	Benzo(k)fluoranthene	No	Total Releases to All Media	0 kg	0 kg	2015	0	
630-08-0	Carbon monoxide	No	Total Releases to Air	205.880 tonnes	200.377 tonnes	2015	5.503	2.75
630-08-0	Carbon monoxide	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
630-08-0	Carbon monoxide	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
630-08-0	Carbon monoxide	No	Total Releases to All Media	0 tonnes				
53-70-3	Dibenzo(a,h)anthracene	No	Total Releases to Air	0.113 kg	0.110 kg	2015	0.003	2.73
53-70-3	Dibenzo(a,h)anthracene	No	Total Releases to Water	0 kg	0 kg	2015	0	
53-70-3	Dibenzo(a,h)anthracene	No	Total Releases to Land	0 kg	0 kg	2015	0	
53-70-3	Dibenzo(a,h)anthracene	No	Total Releases to All Media	0 kg	0 kg	2015	0	
206-44-0	Fluoranthene	No	Total Releases to Air	1.608 kg	1.556 kg	2015	0.052	3.34
206-44-0	Fluoranthene	No	Total Releases to Water	0 kg	0 kg	2015	0	
206-44-0	Fluoranthene	No	Total Releases to Land	0 kg	0 kg	2015	0	
206-44-0	Fluoranthene	No	Total Releases to All Media	0 kg				
118-74-1	Hexachlorobenzene	No	Total Releases to Air	0 grams	0 grams	2015	0	
118-74-1	Hexachlorobenzene	No	Total Releases to Water	0 grams	0 grams	2015	0	
118-74-1	Hexachlorobenzene	No	Total Releases to Land	0 grams	0 grams	2015	0	
118-74-1	Hexachlorobenzene	No	Total Releases to All Media	0 grams				
193-39-5	Indeno(1,2,3-c,d)pyrene	No	Total Releases to Air	0.016 kg	0.015 kg	2015	0.001	6.67
193-39-5	Indeno(1,2,3-c,d)pyrene	No	Total Releases to Water	0 kg	0 kg	2015	0	
193-39-5	Indeno(1,2,3-c,d)pyrene	No	Total Releases to Land	0 kg	0 kg	2015	0	
193-39-5	Indeno(1,2,3-c,d)pyrene	No	Total Releases to All Media	0 kg	0 kg	2015	0	
NA - 08	Lead (and its compounds)	No	Total Releases to Air	132 kg	127 kg	2015	5	3.94
NA - 08	Lead (and its compounds)	No	Total Releases to Water	0 kg	0 kg	2015	0	
NA - 08	Lead (and its compounds)	No	Total Releases to Land	0 kg	0 kg	2015	0	
NA - 08	Lead (and its compounds)	No	Total Releases to All Media	0 kg				
NA - 10	Mercury (and its compounds)	No	Total Releases to Air	40.193 kg	38.894 kg	2015	1.299	3.34
NA - 10	Mercury (and its compounds)	No	Total Releases to Water	0 kg	0 kg	2015	0	
NA - 10	Mercury (and its compounds)	No	Total Releases to Land	0 kg	0 kg	2015	0	

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 10	Mercury (and its compounds)	No	Total Releases to All Media	0 kg				
11104-93-1	Nitrogen oxides (expressed as NO2)	No	Total Releases to Air	2002.841 tonnes	1937.891 tonnes	2015	64.950	3.35
11104-93-1	Nitrogen oxides (expressed as NO2)	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
11104-93-1	Nitrogen oxides (expressed as NO2)	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
11104-93-1	Nitrogen oxides (expressed as NO2)	No	Total Releases to All Media	0 tonnes				
39001-02-0	Octachlorodibenzofuran	Yes	Total Releases to Air	0 g TEQ(ET)	0 g TEQ(ET)	2015	0	
3268-87-9	Octachlorodibenzo-p-dioxin	Yes	Total Releases to Air	0.37 g TEQ(ET)	0.32 g TEQ(ET)	2015	0.05	15.62
85-01-8	Phenanthrene	No	Total Releases to Air	73.078 kg	70.716 kg	2015	2.362	3.34
85-01-8	Phenanthrene	No	Total Releases to Water	0 kg	0 kg	2015	0	
85-01-8	Phenanthrene	No	Total Releases to Land	0 kg	0 kg	2015	0	
85-01-8	Phenanthrene	No	Total Releases to All Media	0 kg				
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to Air	164.178 tonnes	155.479 tonnes	2015	8.699	5.59
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to All Media	0 tonnes				
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to Air	114.291 tonnes	110.695 tonnes	2015	3.596	3.25
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to All Media	0 tonnes				
129-00-0	Pyrene	No	Total Releases to Air	0.804 kg	0.778 kg	2015	0.026	3.34
129-00-0	Pyrene	No	Total Releases to Water	0 kg	0 kg	2015	0	
129-00-0	Pyrene	No	Total Releases to Land	0 kg	0 kg	2015	0	
129-00-0	Pyrene	No	Total Releases to All Media	0 kg				
7446-09-5	Sulphur dioxide	No	Total Releases to Air	2274.048 tonnes	2246.993 tonnes	2015	27.055	1.20
7446-09-5	Sulphur dioxide	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
7446-09-5	Sulphur dioxide	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
7446-09-5	Sulphur dioxide	No	Total Releases to All Media	0 tonnes				
NA - M08	Total Particulate Matter	No	Total Releases to Air	198.504 tonnes	181.570 tonnes	2015	16.934	9.33
NA - M08	Total Particulate Matter	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
NA - M08	Total Particulate Matter	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
NA - M08	Total Particulate Matter	No	Total Releases to All Media	0 tonnes				

Comparison Report - On-site Releases - Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
208-96-8	Acenaphthylene	No reasons - quantities approximately the same	
NA - 16	Ammonia (total)	No reasons - quantities approximately the same	
56-55-3	Benzo(a)anthracene	No reasons - quantities approximately the same	
218-01-9	Benzo(a)phenanthrene	No reasons - quantities approximately the same	
50-32-8	Benzo(a)pyrene	No reasons - quantities approximately the same	
205-99-2	Benzo(b)fluoranthene	No reasons - quantities approximately the same	
191-24-2	Benzo(g,h,i)perylene	No reasons - quantities approximately the same	

CAS RN	Substance Name	Reason(s) for Change	Other Reason
207-08-9	Benzo(k)fluoranthene	No reasons - quantities approximately the same	
630-08-0	Carbon monoxide	No reasons - quantities approximately the same	
53-70-3	Dibenzo(a,h)anthracene	No reasons - quantities approximately the same	
NA - D/F	Dioxins and furans - total	Increase in production levels	
206-44-0	Fluoranthene	No reasons - quantities approximately the same	
118-74-1	Hexachlorobenzene	No reasons - quantities approximately the same	
193-39-5	Indeno(1,2,3-c,d)pyrene	No reasons - quantities approximately the same	
NA - 08	Lead (and its compounds)	No reasons - quantities approximately the same	
NA - 10	Mercury (and its compounds)	No reasons - quantities approximately the same	
11104-93-1	Nitrogen oxides (expressed as NO2)	No reasons - quantities approximately the same	
85-01-8	Phenanthrene	No reasons - quantities approximately the same	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No reasons - quantities approximately the same	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No reasons - quantities approximately the same	
129-00-0	Pyrene	No reasons - quantities approximately the same	
7446-09-5	Sulphur dioxide	No reasons - quantities approximately the same	
NA - M08	Total Particulate Matter	No reasons - quantities approximately the same	

Pollution Prevention

Does the facility have a documented pollution prevention plan?	No
Did the facility complete any pollution prevention activities in the current NPRI reporting year	No

Progress on TRA Plan - Objectives

CAS RN	Substance Name	Objectives
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
		Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in

CAS RN	Substance Name	Objectives
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
208-96-8	Acenaphthylene	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
NA - 16	Ammonia (total)	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to reduce the creation of ammonia (total) at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
56-55-3	Benzo(a)anthracene	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
218-01-9	Benzo(a)phenanthrene	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
50-32-8	Benzo(a)pyrene	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
205-99-2	Benzo(b)fluoranthene	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
191-24-2	Benzo(g,h,i)perylene	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
207-08-9	Benzo(k)fluoranthene	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
630-08-0	Carbon monoxide	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to reduce the creation of carbon monoxide at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
53-70-3	Dibenzo(a,h)anthracene	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
206-44-0	Fluoranthene	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
118-74-1	Hexachlorobenzene	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
193-39-5	Indeno(1,2,3-c,d)pyrene	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
NA - 08	Lead (and its compounds)	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the usage of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
NA - 10	Mercury (and its compounds)	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the usage of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
11104-93-1	Nitrogen oxides (expressed as NO2)	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to reduce the creation of nitrogen oxides at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
39001-02-0	Octachlorodibenzofuran	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
3268-87-9	Octachlorodibenzo-p-dioxin	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
85-01-8	Phenanthrene	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for

CAS RN	Substance Name	Objectives
		implementation at this time.
NA - M09	PM10 - Particulate Matter <= 10 Microns	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to reduce the creation of PM10 at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to reduce the creation of PM2.5 at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
129-00-0	Pyrene	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to eliminate the creation of each of the toxic substances at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
7446-09-5	Sulphur dioxide	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to reduce the creation of sulphur dioxide at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
NA - M08	Total Particulate Matter	Federal White Cement Ltd. prides itself on technological innovation in order to manufacture various grades of white cement in an environmentally responsible manner. FWC will strive to reduce the creation of Total PM at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.

Progress on TRA Plan - Use Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	No quantity target	No timeline target	
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	No quantity target	No timeline target	
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	No quantity target	No timeline target	
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	No quantity target	No timeline target	
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	No quantity target	No timeline target	
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	No quantity target	No timeline target	
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	No quantity target	No timeline target	
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	No quantity target	No timeline target	
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	No quantity target	No timeline target	
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	No quantity target	No timeline target	
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	No quantity target	No timeline target	
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	No quantity target	No timeline target	
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	No quantity target	No timeline target	
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	No quantity target	No timeline target	
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	No quantity target	No timeline target	
208-96-8	Acenaphthylene	No quantity target	No timeline target	
NA - 16	Ammonia (total)	No quantity target	No timeline target	
56-55-3	Benzo(a)anthracene	No quantity target	No timeline target	
218-01-9	Benzo(a)phenanthrene	No quantity target	No timeline target	
50-32-8	Benzo(a)pyrene	No quantity target	No timeline target	
205-99-2	Benzo(b)fluoranthene	No quantity target	No timeline target	
191-24-2	Benzo(g,h,i)perylene	No quantity target	No timeline target	
207-08-9	Benzo(k)fluoranthene	No quantity target	No timeline target	
630-08-0	Carbon monoxide	No quantity target	No timeline target	
53-70-3	Dibenzo(a,h)anthracene	No quantity target	No timeline target	
206-44-0	Fluoranthene	No quantity target	No timeline target	
118-74-1	Hexachlorobenzene	No quantity target	No timeline target	
193-39-5	Indeno(1,2,3-c,d)pyrene	No quantity target	No timeline target	
NA - 08	Lead (and its compounds)	No quantity target	No timeline target	
NA - 10	Mercury (and its compounds)	No quantity target	No timeline target	
11104-93-1	Nitrogen oxides (expressed as NO2)	No quantity target	No timeline target	
39001-02-0	Octachlorodibenzofuran	No quantity target	No timeline target	
3268-87-9	Octachlorodibenzo-p-dioxin	No quantity target	No timeline target	
85-01-8	Phenanthrene	No quantity target	No timeline target	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No quantity target	No timeline target	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No quantity target	No timeline target	
129-00-0	Pyrene	No quantity target	No timeline target	
7446-09-5	Sulphur dioxide	No quantity target	No timeline target	
NA - M08	Total Particulate Matter	No quantity target	No timeline target	

Progress on TRA Plan - Creation Targets

CAS RN	Substance Name	Quantity	Years	Description of Target

67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	No quantity target	No timeline target	
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	No quantity target	No timeline target	
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	No quantity target	No timeline target	
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	No quantity target	No timeline target	
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	No quantity target	No timeline target	
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	No quantity target	No timeline target	
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	No quantity target	No timeline target	
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	No quantity target	No timeline target	
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	No quantity target	No timeline target	
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	No quantity target	No timeline target	
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	No quantity target	No timeline target	
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	No quantity target	No timeline target	
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	No quantity target	No timeline target	
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	No quantity target	No timeline target	
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	No quantity target	No timeline target	
208-96-8	Acenaphthylene	No quantity target	No timeline target	
NA - 16	Ammonia (total)	No quantity target	No timeline target	
56-55-3	Benzo(a)anthracene	No quantity target	No timeline target	
218-01-9	Benzo(a)phenanthrene	No quantity target	No timeline target	
50-32-8	Benzo(a)pyrene	No quantity target	No timeline target	
205-99-2	Benzo(b)fluoranthene	No quantity target	No timeline target	
191-24-2	Benzo(g,h,i)perylene	No quantity target	No timeline target	
207-08-9	Benzo(k)fluoranthene	No quantity target	No timeline target	
630-08-0	Carbon monoxide	No quantity target	No timeline target	
53-70-3	Dibenzo(a,h)anthracene	No quantity target	No timeline target	
206-44-0	Fluoranthene	No quantity target	No timeline target	
118-74-1	Hexachlorobenzene	No quantity target	No timeline target	
193-39-5	Indeno(1,2,3-c,d)pyrene	No quantity target	No timeline target	
NA - 08	Lead (and its compounds)	No quantity target	No timeline target	
NA - 10	Mercury (and its compounds)	No quantity target	No timeline target	
11104-93-1	Nitrogen oxides (expressed as NO2)	No quantity target	No timeline target	
39001-02-0	Octachlorodibenzofuran	No quantity target	No timeline target	
3268-87-9	Octachlorodibenzo-p-dioxin	No quantity target	No timeline target	
85-01-8	Phenanthrene	No quantity target	No timeline target	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No quantity target	No timeline target	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No quantity target	No timeline target	
129-00-0	Pyrene	No quantity target	No timeline target	
7446-09-5	Sulphur dioxide	No quantity target	No timeline target	
NA - M08	Total Particulate Matter	No quantity target	No timeline target	

Progress on TRA Plan - Additional Actions

CAS RN	Substance Name	Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance?	Describe any additional actions that were taken during the reporting period to achieve the plan's objectives	Provide a public summary of the description of the additional action taken
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	No		
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	No		
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	No		
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	No		
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	No		
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	No		
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	No		
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	No		
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	No		

CAS RN	Substance Name	Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance?	Describe any additional actions that were taken during the reporting period to achieve the plan's objectives	Provide a public summary of the description of the additional action taken
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	No		
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	No		
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	No		
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	No		
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	No		
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	No		
208-96-8	Acenaphthylene	No		
NA - 16	Ammonia (total)	No		
56-55-3	Benzo(a)anthracene	No		
218-01-9	Benzo(a)phenanthrene	No		
50-32-8	Benzo(a)pyrene	No		
205-99-2	Benzo(b)fluoranthene	No		
191-24-2	Benzo(g,h,i)perylene	No		

630-08-0	Carbon monoxide	No		
53-70-3	Dibenzo(a,h)anthracene	No		
206-44-0	Fluoranthene	No		
118-74-1	Hexachlorobenzene	No		
193-39-5	Indeno(1,2,3-c,d)pyrene	No		
NA - 08	Lead (and its compounds)	No		
NA - 10	Mercury (and its compounds)	No		
11104-93-1	Nitrogen oxides (expressed as NO2)	No		
39001-02-0	Octachlorodibenzofuran	No		
3268-87-9	Octachlorodibenzo-p-dioxin	No		
85-01-8	Phenanthrene	No		
NA - M09	PM10 - Particulate Matter <= 10 Microns	No		
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No		
129-00-0	Pyrene	No		
7446-09-5	Sulphur dioxide	No		
NA - M08	Total Particulate Matter	No		

Progress on TRA Plan - Reductions due to additional actions taken

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
208-96-8	Acenaphthylene	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
208-96-8	Acenaphthylene	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
208-96-8	Acenaphthylene	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
208-96-8	Acenaphthylene	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
208-96-8	Acenaphthylene	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
208-96-8	Acenaphthylene	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
208-96-8	Acenaphthylene	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
208-96-8	Acenaphthylene	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
208-96-8	Acenaphthylene	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
NA - 16	Ammonia (total)	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 16	Ammonia (total)	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 16	Ammonia (total)	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
NA - 16	Ammonia (total)	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 16	Ammonia (total)	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 16	Ammonia (total)	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
NA - 16	Ammonia (total)	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 16	Ammonia (total)	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 16	Ammonia (total)	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
56-55-3	Benzo(a)anthracene	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
56-55-3	Benzo(a)anthracene	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
56-55-3	Benzo(a)anthracene	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
56-55-3	Benzo(a)anthracene	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
56-55-3	Benzo(a)anthracene	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
56-55-3	Benzo(a)anthracene	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
56-55-3	Benzo(a)anthracene	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
56-55-3	Benzo(a)anthracene	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
56-55-3	Benzo(a)anthracene	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
218-01-9	Benzo(a)phenanthrene	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
218-01-9	Benzo(a)phenanthrene	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
218-01-9	Benzo(a)phenanthrene	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
218-01-9	Benzo(a)phenanthrene	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
218-01-9	Benzo(a)phenanthrene	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
218-01-9	Benzo(a)phenanthrene	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
218-01-9	Benzo(a)phenanthrene	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
218-01-9	Benzo(a)phenanthrene	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
218-01-9	Benzo(a)phenanthrene	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
50-32-8	Benzo(a)pyrene	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
50-32-8	Benzo(a)pyrene	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
50-32-8	Benzo(a)pyrene	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
50-32-8	Benzo(a)pyrene	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
50-32-8	Benzo(a)pyrene	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
50-32-8	Benzo(a)pyrene	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
50-32-8	Benzo(a)pyrene	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
50-32-8	Benzo(a)pyrene	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
50-32-8	Benzo(a)pyrene	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
205-99-2	Benzo(b)fluoranthene	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
205-99-2	Benzo(b)fluoranthene	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
205-99-2	Benzo(b)fluoranthene	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
205-99-2	Benzo(b)fluoranthene	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
205-99-2	Benzo(b)fluoranthene	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
205-99-2	Benzo(b)fluoranthene	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
205-99-2	Benzo(b)fluoranthene	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
205-99-2	Benzo(b)fluoranthene	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
205-99-2	Benzo(b)fluoranthene	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
191-24-2	Benzo(g,h,i)perylene	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
191-24-2	Benzo(g,h,i)perylene	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
191-24-2	Benzo(g,h,i)perylene	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
191-24-2	Benzo(g,h,i)perylene	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
191-24-2	Benzo(g,h,i)perylene	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
191-24-2	Benzo(g,h,i)perylene	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
191-24-2	Benzo(g,h,i)perylene	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
191-24-2	Benzo(g,h,i)perylene	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
191-24-2	Benzo(g,h,i)perylene	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
207-08-9	Benzo(k)fluoranthene	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
207-08-9	Benzo(k)fluoranthene	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
207-08-9	Benzo(k)fluoranthene	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
207-08-9	Benzo(k)fluoranthene	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
207-08-9	Benzo(k)fluoranthene	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
207-08-9	Benzo(k)fluoranthene	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
207-08-9	Benzo(k)fluoranthene	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
207-08-9	Benzo(k)fluoranthene	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
207-08-9	Benzo(k)fluoranthene	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
630-08-0	Carbon monoxide	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
630-08-0	Carbon monoxide	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
630-08-0	Carbon monoxide	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
630-08-0	Carbon monoxide	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
630-08-0	Carbon monoxide	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
630-08-0	Carbon monoxide	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
630-08-0	Carbon monoxide	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
630-08-0	Carbon monoxide	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
630-08-0	Carbon monoxide	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
53-70-3	Dibenzo(a,h)anthracene	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
53-70-3	Dibenzo(a,h)anthracene	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
53-70-3	Dibenzo(a,h)anthracene	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
53-70-3	Dibenzo(a,h)anthracene	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
53-70-3	Dibenzo(a,h)anthracene	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
53-70-3	Dibenzo(a,h)anthracene	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
53-70-3	Dibenzo(a,h)anthracene	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
53-70-3	Dibenzo(a,h)anthracene	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
53-70-3	Dibenzo(a,h)anthracene	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
206-44-0	Fluoranthene	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
206-44-0	Fluoranthene	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
206-44-0	Fluoranthene	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
206-44-0	Fluoranthene	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
206-44-0	Fluoranthene	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
206-44-0	Fluoranthene	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
206-44-0	Fluoranthene	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
206-44-0	Fluoranthene	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
206-44-0	Fluoranthene	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
118-74-1	Hexachlorobenzene	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
118-74-1	Hexachlorobenzene	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
118-74-1	Hexachlorobenzene	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
118-74-1	Hexachlorobenzene	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
118-74-1	Hexachlorobenzene	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
118-74-1	Hexachlorobenzene	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
118-74-1	Hexachlorobenzene	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
118-74-1	Hexachlorobenzene	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
118-74-1	Hexachlorobenzene	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
193-39-5	Indeno(1,2,3-c,d)pyrene	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
193-39-5	Indeno(1,2,3-c,d)pyrene	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
193-39-5	Indeno(1,2,3-c,d)pyrene	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
193-39-5	Indeno(1,2,3-c,d)pyrene	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
193-39-5	Indeno(1,2,3-c,d)pyrene	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
193-39-5	Indeno(1,2,3-c,d)pyrene	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
193-39-5	Indeno(1,2,3-c,d)pyrene	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
193-39-5	Indeno(1,2,3-c,d)pyrene	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
193-39-5	Indeno(1,2,3-c,d)pyrene	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
NA - 08	Lead (and its compounds)	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
NA - 08	Lead (and its compounds)	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 08	Lead (and its compounds)	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
NA - 08	Lead (and its compounds)	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 08	Lead (and its compounds)	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 08	Lead (and its compounds)	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
NA - 08	Lead (and its compounds)	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 08	Lead (and its compounds)	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 08	Lead (and its compounds)	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
NA - 10	Mercury (and its compounds)	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 10	Mercury (and its compounds)	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 10	Mercury (and its compounds)	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
NA - 10	Mercury (and its compounds)	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 10	Mercury (and its compounds)	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 10	Mercury (and its compounds)	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
NA - 10	Mercury (and its compounds)	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 10	Mercury (and its compounds)	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 10	Mercury (and its compounds)	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
11104-93-1	Nitrogen oxides (expressed as NO2)	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
11104-93-1	Nitrogen oxides (expressed as NO2)	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
11104-93-1	Nitrogen oxides (expressed as NO2)	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
11104-93-1	Nitrogen oxides (expressed as NO2)	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
11104-93-1	Nitrogen oxides (expressed as NO2)	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
11104-93-1	Nitrogen oxides (expressed as NO2)	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
11104-93-1	Nitrogen oxides (expressed as NO2)	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
11104-93-1	Nitrogen oxides (expressed as NO2)	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
11104-93-1	Nitrogen oxides (expressed as NO2)	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
39001-02-0	Octachlorodibenzofuran	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
39001-02-0	Octachlorodibenzofuran	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
39001-02-0	Octachlorodibenzofuran	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
39001-02-0	Octachlorodibenzofuran	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
39001-02-0	Octachlorodibenzofuran	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
39001-02-0	Octachlorodibenzofuran	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
39001-02-0	Octachlorodibenzofuran	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
39001-02-0	Octachlorodibenzofuran	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
39001-02-0	Octachlorodibenzofuran	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
3268-87-9	Octachlorodibenzo-p-dioxin	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
3268-87-9	Octachlorodibenzo-p-dioxin	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
3268-87-9	Octachlorodibenzo-p-dioxin	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
3268-87-9	Octachlorodibenzo-p-dioxin	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
3268-87-9	Octachlorodibenzo-p-dioxin	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
3268-87-9	Octachlorodibenzo-p-dioxin	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
3268-87-9	Octachlorodibenzo-p-dioxin	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
3268-87-9	Octachlorodibenzo-p-dioxin	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
3268-87-9	Octachlorodibenzo-p-dioxin	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
85-01-8	Phenanthrene	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
85-01-8	Phenanthrene	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
85-01-8	Phenanthrene	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
85-01-8	Phenanthrene	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
85-01-8	Phenanthrene	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
85-01-8	Phenanthrene	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
85-01-8	Phenanthrene	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
85-01-8	Phenanthrene	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
85-01-8	Phenanthrene	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
NA - M09	PM10 - Particulate Matter <= 10 Microns	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - M09	PM10 - Particulate Matter <= 10 Microns	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - M09	PM10 - Particulate Matter <= 10 Microns	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
NA - M09	PM10 - Particulate Matter <= 10 Microns	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - M09	PM10 - Particulate Matter <= 10 Microns	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - M09	PM10 - Particulate Matter <= 10 Microns	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
NA - M09	PM10 - Particulate Matter <= 10 Microns	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - M09	PM10 - Particulate Matter <= 10 Microns	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - M09	PM10 - Particulate Matter <= 10 Microns	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
129-00-0	Pyrene	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
129-00-0	Pyrene	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
129-00-0	Pyrene	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
129-00-0	Pyrene	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
129-00-0	Pyrene	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
129-00-0	Pyrene	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
129-00-0	Pyrene	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
129-00-0	Pyrene	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
129-00-0	Pyrene	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
7446-09-5	Sulphur dioxide	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
7446-09-5	Sulphur dioxide	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
7446-09-5	Sulphur dioxide	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
7446-09-5	Sulphur dioxide	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
7446-09-5	Sulphur dioxide	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
7446-09-5	Sulphur dioxide	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
7446-09-5	Sulphur dioxide	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
7446-09-5	Sulphur dioxide	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
7446-09-5	Sulphur dioxide	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
NA - M08	Total Particulate Matter	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - M08	Total Particulate Matter	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - M08	Total Particulate Matter	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
NA - M08	Total Particulate Matter	The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - M08	Total Particulate Matter	The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - M08	Total Particulate Matter	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
NA - M08	Total Particulate Matter	The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - M08	Total Particulate Matter	The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - M08	Total Particulate Matter	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	

Progress on TRA Plan - Amendments

CAS RN	Substance Name	Were any amendments made to the toxic substance reduction plan during the reporting period	Description any amendments that were made to the toxic substance reduction plan during the reporting period	Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	No		
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	No		
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	No		
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	No		
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	No		
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	No		
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	No		
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	No		
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	No		
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	No		

CAS RN	Substance Name	Were any amendments made to the toxic substance reduction plan during the reporting period	Description any amendments that were made to the toxic substance reduction plan during the reporting period	Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	No		
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	No		
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	No		
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	No		
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	No		
208-96-8	Acenaphthylene	No		
NA - 16	Ammonia (total)	No		
56-55-3	Benzo(a)anthracene	No		
218-01-9	Benzo(a)phenanthrene	No		
50-32-8	Benzo(a)pyrene	No		
205-99-2	Benzo(b)fluoranthene	No		
191-24-2	Benzo(g,h,i)perylene	No		
207-08-9	Benzo(k)fluoranthene	No		
630-08-0	Carbon monoxide	No		
53-70-3	Dibenzo(a,h)anthracene	No		
206-44-0	Fluoranthene	No		
118-74-1	Hexachlorobenzene	No		
193-39-5	Indeno(1,2,3-c,d)pyrene	No		
NA - 08	Lead (and its compounds)	No		
NA - 10	Mercury (and its compounds)	No		
11104-93-1	Nitrogen oxides (expressed as NO2)	No		
39001-02-0	Octachlorodibenzofuran	No		
3268-87-9	Octachlorodibenzo-p-dioxin	No		
85-01-8	Phenanthrene	No		
NA - M09	PM10 - Particulate Matter <= 10 Microns	No		
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No		
129-00-0	Pyrene	No		
7446-09-5	Sulphur dioxide	No		
NA - M08	Total Particulate Matter	No		

Report Submission and Electronic Certification

NPRI - Electronic Statement of Certification

Specify the language of correspondence

English

Comments (optional)

I hereby certify that I have exercised due diligence to ensure that the submitted information is true and complete. The amounts and values for the facility(ies) identified below are accurate, based on reasonable estimates using available data. The data for the facility(ies) that I represent are hereby submitted to the programs identified below using the Single Window Reporting Application.

I also acknowledge that the data will be made public.

Note: Only the person identified as the Certifying Official or the authorized delegate should submit the report(s) identified below.

Company Name

Federal White Cement Ltd.

Certifying Official (or authorized delegate)

George Doumet

Report Submitted by

George Doumet

I, the Certifying Official or authorized delegate, agree with the statements above and acknowledge that by pressing the "Submit Report(s)" button, I

am electronically certifying and submitting the facility report(s) for the identified company to its affiliated programs.

ON MOE TRA - Electronic Certification Statement

Annual Report Certification Statement

As of 27/07/2017, I, George Doumet, certify that I have read the reports on the toxic substance reduction plans for the toxic substances referred to below and am familiar with their contents, and to my knowledge the information contained in the reports is factually accurate and the reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

TRA Substance List

CAS RN	Substance Name
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran
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39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
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60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin
208-96-8	Acenaphthylene
NA - 16	Ammonia (total)
56-55-3	Benzo(a)anthracene
218-01-9	Benzo(a)phenanthrene
50-32-8	Benzo(a)pyrene
205-99-2	Benzo(b)fluoranthene
191-24-2	Benzo(g,h,i)perylene
207-08-9	Benzo(k)fluoranthene
630-08-0	Carbon monoxide
53-70-3	Dibenzo(a,h)anthracene
206-44-0	Fluoranthene
118-74-1	Hexachlorobenzene
193-39-5	Indeno(1,2,3-c,d)pyrene
NA - 08	Lead (and its compounds)
NA - 10	Mercury (and its compounds)
11104-93-1	Nitrogen oxides (expressed as NO2)
39001-02-0	Octachlorodibenzofuran
3268-87-9	Octachlorodibenzo-p-dioxin
85-01-8	Phenanthrene
NA - M09	PM10 - Particulate Matter <= 10 Microns

NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns
129-00-0	Pyrene
7446-09-5	Sulphur dioxide
NA - M08	Total Particulate Matter
NA - M16	Volatile Organic Compounds (VOCs)

Company Name

Federal White Cement Ltd.

Highest Ranking Employee

George Doumet

Report Submitted by

George Doumet

Website address

I, the highest ranking employee, agree with the certification statement(s) above and acknowledge that by checking the box I am electronically signing the statement(s). I also acknowledge that by pressing the 'Submit Report(s)' button I am submitting the facility record(s)/report(s) for the identified facility to the Director under the Toxics Reduction Act, 2009. I also acknowledge that the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 provide the authority to the Director under the Act to make certain information as specified in subsection 27(5) of Ontario Regulation 455/09 available to the public.

Submitted Report

Period	Submission Date	Facility Name	Province	City	Programs
2016	27/07/2017	Woodstock Plant	Ontario	Woodstock	NPRI,ON MOE TRA

Note: If there is a change in the contact information for the facility, a change in the owner or operator of the facility, if operations at the facility are terminated, or if information submitted for any previous year was mistaken or inaccurate, please update this information through SWIM or by contacting the National Pollutant Release Inventory directly.

Version: 3.12.1