

National Pollutant Release Inventory (NPRI) and



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SWIM > 2015 > GreenField Specialty Alcohols Inc. > Johnstown Plant > Report Preview

Report Preview

Report Details

Report Year	2015
Report Type:	NPRI,ON MOE TRA
Report Status:	Submitted
Modified Date/Time:	25/05/2016 3:05 PM

Company and Facility Details

Company Name:	GreenField Specialty Alcohols Inc.
Business Number:	130336852
Mailing Address:	Address Line 1: 98 Walker Drive City, Province/Territory, Postal Code: Brampton Ontario L6T 4H6 Country: Canada
Facility Name:	Johnstown Plant
NAICS Code:	325190
NPRI ID:	11684
Physical Address:	Address Line 1: 141 Commerce Drive City, Province/Territory, Postal Code: Prescott Ontario K0E1T0 Country: Canada Latitude: 44.14512 Longitude: 75.30012 UTM Zone: 18 UTM Easting: 461634 UTM Northing: 4953252

Contacts Details

Contact Type	Technical Contact, Certifying Official, Person who prepared the report
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Position:	EH&S Coordinator
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Contact Type	Highest Ranking Employee
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Position:	Plant Manager

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Mailing Address:	Delivery Mode: GeneralDelivery Address Line 1: 141 Commerce Drive City, Province/Territory, Postal Code: Johnstown Ontario K0E1T1 Country: Canada

General Information

Number of employees:	57
Activities for Which the 20,000-Hour Employee Threshold Does Not Apply:	None of the above
Activities Relevant to Reporting Dioxins, Furans and Hexachlorobenzene:	None of the above
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
75-07-0	Acetaldehyde	12.9550	N/A	N/A	N/A	tonnes
NA - 16	Ammonia (total)	0.0000	N/A	N/A	N/A	tonnes
71-43-2	Benzene	0.1770	N/A	N/A	N/A	tonnes
630-08-0	Carbon monoxide	152.4720	N/A	N/A	N/A	tonnes
98-82-8	Cumene	N/A	N/A	N/A	N/A	tonnes
110-82-7	Cyclohexane	0.0910	N/A	N/A	N/A	tonnes
100-41-4	Ethylbenzene	0.0010	N/A	N/A	N/A	tonnes
1634-04-4	Methyl tert-butyl ether	N/A	N/A	N/A	N/A	tonnes
91-20-3	Naphthalene	N/A	N/A	N/A	N/A	tonnes
110-54-3	n-Hexane	3.4860	N/A	N/A	N/A	tonnes
11104-93-1	Nitrogen oxides (expressed as NO2)	128.5800	N/A	N/A	N/A	tonnes
NA - M09	PM10 - Particulate Matter <= 10 Microns	16.3580	N/A	N/A	N/A	tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	5.0160	N/A	N/A	N/A	tonnes
7664-93-9	Sulphuric acid	N/A	N/A	N/A	N/A	tonnes
108-88-3	Toluene	0.3620	N/A	N/A	N/A	tonnes
NA - M08	Total Particulate Matter	27.2100	N/A	N/A	N/A	tonnes
NA - M16	Volatile Organic Compounds (VOCs)	153.6690	151.7840	N/A	N/A	tonnes
1330-20-7	Xylene (all isomers)	0.2620	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
75-07-0	Acetaldehyde	Yes	Yes		No
NA - 16	Ammonia (total)	Yes	Yes		No
71-43-2	Benzene	Yes	Yes		No

CAS RN	Substance Name	NPRI	ON MOE TRA	ON MOE Reg 127/01	First report for this substance to the ON MOE TRA
630-08-0	Carbon monoxide	Yes	Yes		No
98-82-8	Cumene	No	No		No
110-82-7	Cyclohexane	Yes	Yes		No
100-41-4	Ethylbenzene	Yes	Yes		No
1634-04-4	Methyl tert-butyl ether	Yes	Yes		No
91-20-3	Naphthalene	Yes	Yes		No
110-54-3	n-Hexane	Yes	Yes		No
11104-93-1	Nitrogen oxides (expressed as NO2)	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
7664-93-9	Sulphuric acid	Yes	Yes		No
108-88-3	Toluene	Yes	Yes		No
NA - M08	Total Particulate Matter	Yes	Yes		No
NA - M16	Volatile Organic Compounds (VOCs)	Yes	Yes		No
1330-20-7	Xylene (all isomers)	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
75-07-0	Acetaldehyde	Yes	No	No
NA - 16	Ammonia (total)	Yes	No	No
71-43-2	Benzene	Yes	Yes	No
98-82-8	Cumene	No	No	No
110-82-7	Cyclohexane	Yes	Yes	No
100-41-4	Ethylbenzene	Yes	Yes	No
1634-04-4	Methyl tert-butyl ether	No	No	No
91-20-3	Naphthalene	No	No	No
110-54-3	n-Hexane	Yes	No	No
7664-93-9	Sulphuric acid	No	No	No
108-88-3	Toluene	Yes	Yes	No
NA - M16	Volatile Organic Compounds (VOCs)		No	Yes
1330-20-7	Xylene (all isomers)	Yes	Yes	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
75-07-0	Acetaldehyde	No	No	No
NA - 16	Ammonia (total)	No	No	No
71-43-2	Benzene	No	No	No
98-82-8	Cumene	No	No	No
110-82-7	Cyclohexane	No	No	No
100-41-4	Ethylbenzene	No	No	No
1634-04-4	Methyl tert-butyl ether	No	No	No
91-20-3	Naphthalene	No	No	No
110-54-3	n-Hexane	No	No	No
7664-93-9	Sulphuric acid	No	No	No
108-88-3	Toluene	No	No	No
NA - M16	Volatile Organic Compounds (VOCs)			
1330-20-7	Xylene (all isomers)	No	No	No

General Information about the Substance - Nature of Activities

CAS RN	Substance Name	Manufacture the Substance	Process the Substance	Otherwise Use of the Substance
75-07-0	Acetaldehyde	As an impurity		
NA - 16	Ammonia (total)			As a physical or chemical processing aid

CAS RN	Substance Name	Manufacture the Substance	Process the Substance	Otherwise Use of the Substance
71-43-2	Benzene		As a formulation component	
98-82-8	Cumene		As a formulation component	
110-82-7	Cyclohexane		As a formulation component	
100-41-4	Ethylbenzene		As a formulation component	
1634-04-4	Methyl tert-butyl ether		As a formulation component	
91-20-3	Naphthalene		As a formulation component	
110-54-3	n-Hexane		As a formulation component	
7664-93-9	Sulphuric acid			As a physical or chemical processing aid
108-88-3	Toluene		As a formulation component	
NA - M16	Volatile Organic Compounds (VOCs)			
1330-20-7	Xylene (all isomers)		As a formulation component	

TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained	Quantity	Use ranges for public reporting
75-07-0	Acetaldehyde	Use	0 tonnes	No
75-07-0	Acetaldehyde	Creation	12.955 tonnes	Yes
75-07-0	Acetaldehyde	Contained	622.81 tonnes	Yes
NA - 16	Ammonia (total)	Use	384.922 tonnes	Yes
NA - 16	Ammonia (total)	Creation	0 tonnes	No
NA - 16	Ammonia (total)	Contained	0 tonnes	No
71-43-2	Benzene	Use	32.817 tonnes	Yes
71-43-2	Benzene	Creation	0 tonnes	No
71-43-2	Benzene	Contained	32.64 tonnes	Yes
630-08-0	Carbon monoxide	Use	0 tonnes	No
630-08-0	Carbon monoxide	Creation	152.472 tonnes	Yes
630-08-0	Carbon monoxide	Contained		
98-82-8	Cumene	Use	0 tonnes	No
98-82-8	Cumene	Creation	0 tonnes	No
98-82-8	Cumene	Contained	0 tonnes	No
110-82-7	Cyclohexane	Use	131.268 tonnes	Yes
110-82-7	Cyclohexane	Creation	0 tonnes	No
110-82-7	Cyclohexane	Contained	131.177 tonnes	Yes
100-41-4	Ethylbenzene	Use	0.042 tonnes	Yes
100-41-4	Ethylbenzene	Creation	0 tonnes	No
100-41-4	Ethylbenzene	Contained	0.042 tonnes	Yes
1634-04-4	Methyl tert-butyl ether	Use	0 tonnes	No
1634-04-4	Methyl tert-butyl ether	Creation	0 tonnes	No
1634-04-4	Methyl tert-butyl ether	Contained	0 tonnes	No
91-20-3	Naphthalene	Use	0 tonnes	No
91-20-3	Naphthalene	Creation	0 tonnes	No
91-20-3	Naphthalene	Contained	0 tonnes	No
110-54-3	n-Hexane	Use	3462 tonnes	Yes
110-54-3	n-Hexane	Creation	0 tonnes	No
110-54-3	n-Hexane	Contained	102.8 tonnes	No
11104-93-1	Nitrogen oxides (expressed as NO2)	Use	0 tonnes	No
11104-93-1	Nitrogen oxides (expressed as NO2)	Creation	128.58 tonnes	Yes
11104-93-1	Nitrogen oxides (expressed as NO2)	Contained		
NA - M09	PM10 - Particulate Matter <= 10 Microns	Use	0 tonnes	No
NA - M09	PM10 - Particulate Matter <= 10 Microns	Creation	16.358 tonnes	Yes
NA - M09	PM10 - Particulate Matter <= 10 Microns	Contained		
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Use	0 tonnes	No
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Creation	5.016 tonnes	Yes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Contained		
7664-93-9	Sulphuric acid	Use	1604.017 tonnes	Yes
7664-93-9	Sulphuric acid	Creation	0 tonnes	No
7664-93-9	Sulphuric acid	Contained	0 tonnes	No
108-88-3	Toluene	Use	18.232 tonnes	Yes
108-88-3	Toluene	Creation	0 tonnes	No
108-88-3	Toluene	Contained	17.87 tonnes	Yes
NA - M08	Total Particulate Matter	Use	0 tonnes	No

CAS RN	Substance Name	Use, Creation, Contained	Quantity	Use ranges for public reporting
NA - M08	Total Particulate Matter	Creation	27.210 tonnes	Yes
NA - M08	Total Particulate Matter	Contained		
NA - M16	Volatile Organic Compounds (VOCs)	Use	2901.2 tonnes	Yes
NA - M16	Volatile Organic Compounds (VOCs)	Creation	142.503 tonnes	Yes
NA - M16	Volatile Organic Compounds (VOCs)	Contained		
1330-20-7	Xylene (all isomers)	Use	3.899 tonnes	Yes
1330-20-7	Xylene (all isomers)	Creation	0 tonnes	No
1330-20-7	Xylene (all isomers)	Contained	3.637 tonnes	Yes

TRA Quantifications - VOC Breakdown List

CAS RN	Substance Name	Use, Creation, Contained	Quantity
71-43-2	Benzene	Use	32.817 tonnes
64-17-5	Ethanol	Creation	142.503 tonnes
NA - 35	Pentane (all isomers)	Use	2846.3 tonnes
108-88-3	Toluene	Use	18.232 tonnes
1330-20-7	Xylene (all isomers)	Use	3.899 tonnes

TRA Quantifications - Total Speciated VOCs

Use, Creation, Contained	Quantity
Use	2901.248 tonnes
Creation	142.503 tonnes

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	Incidents out of the normal course of events	Significant Process Change
75-07-0	Acetaldehyde					No
NA - 16	Ammonia (total)					No
71-43-2	Benzene					No
630-08-0	Carbon monoxide					No
98-82-8	Cumene					No
110-82-7	Cyclohexane					No
100-41-4	Ethylbenzene					No
1634-04-4	Methyl tert-butyl ether					No
91-20-3	Naphthalene					No
110-54-3	n-Hexane					No
11104-93-1	Nitrogen oxides (expressed as NO2)					No
NA - M09	PM10 - Particulate Matter <= 10 Microns					No
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns					No
7664-93-9	Sulphuric acid					No
108-88-3	Toluene					No
NA - M08	Total Particulate Matter					No
NA - M16	Volatile Organic Compounds (VOCs)					No
1330-20-7	Xylene (all isomers)					No

On-site Releases - Releases to air

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
75-07-0	Acetaldehyde	Stack or Point Releases	C - Mass Balance		12.27 tonnes
75-07-0	Acetaldehyde	Storage or Handling Releases	C - Mass Balance		0.685 tonnes
NA - 16	Ammonia (total)	Stack or Point Releases	E2 - Published Emission Factors		0 tonnes
630-08-0	Carbon monoxide	Stack or Point Releases	O - Engineering Estimates		142.5 tonnes
630-08-0	Carbon monoxide	Fugitive Releases	O - Engineering Estimates		0.780 tonnes
630-08-0	Carbon monoxide	Other Non-point Releases	O - Engineering Estimates		9.192 tonnes
110-54-3	n-Hexane	Storage or Handling Releases	O - Engineering Estimates		3.486 tonnes
11104-93-1	Nitrogen oxides (expressed as NO2)	Stack or Point Releases	O - Engineering Estimates		113.509 tonnes
11104-93-1	Nitrogen oxides (expressed as NO2)	Fugitive Releases	O - Engineering Estimates		13.380 tonnes

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
11104-93-1	Nitrogen oxides (expressed as NO2)	Other Non-point Releases	O - Engineering Estimates		1.691 tonnes
NA - M09	PM10 - Particulate Matter <= 10 Microns	Stack or Point Releases	E2 - Published Emission Factors		3.652 tonnes
NA - M09	PM10 - Particulate Matter <= 10 Microns	Storage or Handling Releases	E1 - Site Specific Emission Factors		7.88 tonnes
NA - M09	PM10 - Particulate Matter <= 10 Microns	Fugitive Releases	E2 - Published Emission Factors		4.826 tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Stack or Point Releases	E2 - Published Emission Factors		2.246 tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Storage or Handling Releases	E2 - Published Emission Factors		1.948 tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Fugitive Releases	O - Engineering Estimates		0.822 tonnes
NA - M08	Total Particulate Matter	Stack or Point Releases	M3 - Source Testing		4.519 tonnes
NA - M08	Total Particulate Matter	Storage or Handling Releases	E2 - Published Emission Factors		7.351 tonnes
NA - M08	Total Particulate Matter	Fugitive Releases	E2 - Published Emission Factors		15.340 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Stack or Point Releases	C - Mass Balance		9.439 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Storage or Handling Releases	O - Engineering Estimates		140.506 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Fugitive Releases	O - Engineering Estimates		3.724 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Other Sources - Speciated VOCs	NA - Not Applicable		144.230 tonnes

On-site Releases - Releases to air - Total

CAS RN	Substance Name	Total - Releases to Air
75-07-0	Acetaldehyde	12.955 tonnes
NA - 16	Ammonia (total)	0 tonnes
630-08-0	Carbon monoxide	152.472 tonnes
110-54-3	n-Hexane	3.486 tonnes
11104-93-1	Nitrogen oxides (expressed as NO2)	128.580 tonnes
NA - M09	PM10 - Particulate Matter <= 10 Microns	16.358 tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	5.016 tonnes
NA - M08	Total Particulate Matter	27.210 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	153.669 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)	Thermal Oxidizer Stack S-10	63.386 tonnes	53.3000	1.8300	19.800	120.000
630-08-0	Carbon monoxide	Thermal Oxidizer Stack S-10	23.133 tonnes	53.3000	1.8300	19.800	120.000
NA - M08	Total Particulate Matter	Thermal Oxidizer Stack S-10	4.133 tonnes	53.3000	1.8300	19.800	120.000
NA - M08	Total Particulate Matter	Type II DISA Cyclo Filter	0.386 tonnes	53.3000	0.9100	19.000	40.000
NA - M09	PM10 - Particulate Matter <= 10 Microns	Thermal Oxidizer Stack S-10	3.266 tonnes	53.3000	1.8300	19.800	120.000
NA - M09	PM10 - Particulate Matter <= 10 Microns	Type II DISA Cyclo Filter	0.386 tonnes	53.3000	0.9100	19.000	40.000
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Thermal Oxidizer Stack S-10	1.860 tonnes	53.3000	1.8300	19.800	120.000
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Type II DISA Cyclo Filter	0.386 tonnes	53.3000	0.9100	19.000	40.000
NA - M16	Volatile Organic Compounds (VOCs)	Thermal Oxidizer Stack S-10	8.343 tonnes	53.3000	1.8300	19.800	120.000
NA - M16	Volatile Organic Compounds (VOCs)	Type II DISA Cyclo Filter	1.096 tonnes	53.3000	0.9100	19.000	40.000

On-site Releases - Releases to air - VOC Stack Breakdown List

Stack Name	CAS RN	Substance Name	Quantity
Thermal Oxidizer Stack S-10	64-17-5	Ethanol	0.453 tonnes
Thermal Oxidizer Stack S-10	141-78-6	Ethyl acetate	5.151 tonnes
Thermal Oxidizer Stack S-10	50-00-0	Formaldehyde	1.336 tonnes
Thermal Oxidizer Stack S-10	67-56-1	Methanol	1.403 tonnes
Type II DISA Cyclo Filter	50-00-0	Formaldehyde	0.996 tonnes
Type II DISA Cyclo Filter	67-56-1	Methanol	0.1 tonnes

On-site Releases - Releases to air - VOC Breakdown List

Category	CAS RN	Substance Name	Quantity
Other Sources - Speciated VOCs	64-17-5	Ethanol	142.05 tonnes
Other Sources - Speciated VOCs	67-56-1	Methanol	0.295 tonnes

Total Quantity Released (All Media)

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
71-43-2	Benzene	Total Quantity Released	O - Engineering Estimates		0.177 tonnes
110-82-7	Cyclohexane	Total Quantity Released	C - Mass Balance		0.091 tonnes
100-41-4	Ethylbenzene	Total Quantity Released	C - Mass Balance		0.001 tonnes
108-88-3	Toluene	Total Quantity Released	C - Mass Balance		0.362 tonnes
1330-20-7	Xylene (all isomers)	Total Quantity Released	O - Engineering Estimates		0.262 tonnes

On-site Releases - Total

CAS RN	Substance Name	Total releases
75-07-0	Acetaldehyde	12.955 tonnes
NA - 16	Ammonia (total)	0 tonnes
110-54-3	n-Hexane	3.486 tonnes

On-site Releases - Quarterly Breakdown of Annual Releases

CAS RN	Substance Name	Quarter 1	Quarter 2	Quarter 3	Quarter 4
75-07-0	Acetaldehyde	25	25	25	25
71-43-2	Benzene	25	25	25	25
110-82-7	Cyclohexane	25	25	25	25
100-41-4	Ethylbenzene	25	25	25	25
110-54-3	n-Hexane	25	25	25	25
108-88-3	Toluene	25	25	25	25
1330-20-7	Xylene (all isomers)	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	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34
11104-93-1	Nitrogen oxides (expressed as NO2)	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34
NA - M09	PM10 - Particulate Matter <= 10 Microns	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34
NA - M08	Total Particulate Matter	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34
NA - M16	Volatile Organic Compounds (VOCs)	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34

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

CAS RN	Substance Name	Reasons for Changes in Quantities Disposed from Previous Year	Comments (Disposals)
100-41-4	Ethylbenzene	No significant change (i.e. < 10%) or no change	
108-88-3	Toluene	Changes in production levels	Increased usage of denaturant. Emission remodeling completed.
110-54-3	n-Hexane	Other (specify in On-site Releases comment field)	Excise Canada requires ethanol shipments to be denatured. Change of denaturants.
110-82-7	Cyclohexane	Changes in production levels	Change in production levels. Use of natural gasoline as denaturant (as required by Excise Canada) that contains higher quantity of cyclohexane but lower quantities of other toxic substances.
11104-93-1	Nitrogen oxides (expressed as NO2)	Changes in production levels Changes in estimation methods	
1330-20-7	Xylene (all isomers)	Changes in production levels	
1634-04-4	Methyl tert-butyl ether	Other (specify in On-site Releases comment field)	Use of natural gasoline as a denaturant has eliminated this substance.
630-08-0	Carbon monoxide	Changes in estimation methods	Emission remodeling completed.
71-43-2	Benzene	Changes in production levels Other (specify in On-site Releases comment field)	Emission remodeling completed.

CAS RN	Substance Name	Reasons for Changes in Quantities Disposed from Previous Year	Comments (Disposals)
		comment field)	
75-07-0	Acetaldehyde	Changes in estimation methods	Emission remodeling completed.
7664-93-9	Sulphuric acid	No significant change (i.e. < 10%) or no change	
91-20-3	Naphthalene	Other (specify in On-site Releases comment field)	Change in denaturant has eliminated naphthalene.
98-82-8	Cumene	No significant change (i.e. < 10%) or no change	
NA - 16	Ammonia (total)	Changes in estimation methods	
NA - M08	Total Particulate Matter	Changes in production levels	
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)	Other (specify in On-site Releases comment field)	Remodeling completed.

Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities Disposed from Previous Year	Comments (Disposals)
100-41-4	Ethylbenzene		No significant change (i.e. < 10%) or no change	
108-88-3	Toluene		No significant change (i.e. < 10%) or no change	
110-54-3	n-Hexane		No significant change (i.e. < 10%) or no change	
110-82-7	Cyclohexane		No significant change (i.e. < 10%) or no change	
1330-20-7	Xylene (all isomers)		No significant change (i.e. < 10%) or no change	
1634-04-4	Methyl tert-butyl ether		No significant change (i.e. < 10%) or no change	
71-43-2	Benzene		No significant change (i.e. < 10%) or no change	
75-07-0	Acetaldehyde		No significant change (i.e. < 10%) or no change	
7664-93-9	Sulphuric acid		No significant change (i.e. < 10%) or no change	
91-20-3	Naphthalene		No significant change (i.e. < 10%) or no change	
98-82-8	Cumene		No significant change (i.e. < 10%) or no change	
NA - 16	Ammonia (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
100-41-4	Ethylbenzene		No significant change (i.e. < 10%) or no change	
108-88-3	Toluene		No significant change (i.e. < 10%) or no change	
110-54-3	n-Hexane		No significant change (i.e. < 10%) or no change	
110-82-7	Cyclohexane		No significant change (i.e. < 10%) or no change	
1330-20-7	Xylene (all isomers)		No significant change (i.e. < 10%) or no change	
1634-04-4	Methyl tert-butyl ether		No significant change (i.e. < 10%) or no change	
71-43-2	Benzene		No significant change (i.e. < 10%) or no change	
75-07-0	Acetaldehyde		No significant change (i.e. < 10%) or no change	
7664-93-9	Sulphuric acid		No significant change (i.e. < 10%) or no change	
91-20-3	Naphthalene		No significant change (i.e. < 10%) or no change	
98-82-8	Cumene		No significant change (i.e. < 10%) or no change	
NA - 16	Ammonia (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
75-07-0	Acetaldehyde	No	Enters the facility (Use)	0 tonnes	0 tonnes	2014	0	
75-07-0	Acetaldehyde	No	Creation	12.955 tonnes	16.586 tonnes	2014	-3.631	-21.89
75-07-0	Acetaldehyde	No	Contained	622.81 tonnes	615.89 tonnes	2014	6.92	1.12
NA - 16	Ammonia (total)	No	Enters the facility (Use)	384.922 tonnes	497.642 tonnes	2014	-112.720	-22.65
NA - 16	Ammonia (total)	No	Creation	0 tonnes	0 tonnes	2014	0	
NA - 16	Ammonia (total)	No	Contained	0 tonnes	0 tonnes	2014	0	

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
71-43-2	Benzene	No	Enters the facility (Use)	32.817 tonnes	23.934 tonnes	2014	8.883	37.11
71-43-2	Benzene	No	Creation	0 tonnes	0 tonnes	2014	0	
71-43-2	Benzene	No	Contained	32.64 tonnes	23.432 tonnes	2014	9.208	39.30
71-43-2	Benzene	Yes	Enters the facility (Use)	32.817 tonnes	19.899 tonnes	2014	12.918	64.92
630-08-0	Carbon monoxide	No	Enters the facility (Use)	0 tonnes	0 tonnes	2014	0	
630-08-0	Carbon monoxide	No	Creation	152.472 tonnes	33.713 tonnes	2014	118.759	352.26
98-82-8	Cumene	No	Enters the facility (Use)	0 tonnes	0 tonnes	2014	0	
98-82-8	Cumene	No	Creation	0 tonnes	0 tonnes	2014	0	
98-82-8	Cumene	No	Contained	0 tonnes	0 tonnes	2014	0	
110-82-7	Cyclohexane	No	Enters the facility (Use)	131.268 tonnes	95.737 tonnes	2014	35.531	37.11
110-82-7	Cyclohexane	No	Creation	0 tonnes	0 tonnes	2014	0	
110-82-7	Cyclohexane	No	Contained	131.177 tonnes	95.681 tonnes	2014	35.496	37.10
100-41-4	Ethylbenzene	No	Enters the facility (Use)	0.042 tonnes	0.042 tonnes	2014	0.000	0
100-41-4	Ethylbenzene	No	Creation	0 tonnes	0 tonnes	2014	0	
100-41-4	Ethylbenzene	No	Contained	0.042 tonnes	0.039 tonnes	2014	0.003	7.69
1634-04-4	Methyl tert-butyl ether	No	Enters the facility (Use)	0 tonnes	0 tonnes	2014	0	
1634-04-4	Methyl tert-butyl ether	No	Creation	0 tonnes	0 tonnes	2014	0	
1634-04-4	Methyl tert-butyl ether	No	Contained	0 tonnes	0 tonnes	2014	0	
91-20-3	Naphthalene	No	Enters the facility (Use)	0 tonnes	0 tonnes	2014	0	
91-20-3	Naphthalene	No	Creation	0 tonnes	0 tonnes	2014	0	
91-20-3	Naphthalene	No	Contained	0 tonnes	0 tonnes	2014	0	
110-54-3	n-Hexane	No	Enters the facility (Use)	3462 tonnes	0.037 tonnes	2014	3461.963	9356656.76
110-54-3	n-Hexane	No	Creation	0 tonnes	0 tonnes	2014	0	
110-54-3	n-Hexane	No	Contained	102.8 tonnes	0 tonnes	2014	102.8	100
11104-93-1	Nitrogen oxides (expressed as NO2)	No	Enters the facility (Use)	0 tonnes	0 tonnes	2014	0	
11104-93-1	Nitrogen oxides (expressed as NO2)	No	Creation	128.58 tonnes	79.287 tonnes	2014	49.293	62.17
NA - 35	Pentane (all isomers)	Yes	Enters the facility (Use)	2846.3 tonnes	2075.886 tonnes	2014	770.414	37.11
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Enters the facility (Use)	0 tonnes	0 tonnes	2014	0	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Creation	16.358 tonnes	14.954 tonnes	2014	1.404	9.39
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Enters the facility (Use)	0 tonnes	0 tonnes	2014	0	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Creation	5.016 tonnes	5.202 tonnes	2014	-0.186	-3.58
7664-93-9	Sulphuric acid	No	Enters the facility (Use)	1604.017 tonnes	1861.248 tonnes	2014	-257.231	-13.82
7664-93-9	Sulphuric acid	No	Creation	0 tonnes	0 tonnes	2014	0	
7664-93-9	Sulphuric acid	No	Contained	0 tonnes	0 tonnes	2014	0	
108-88-3	Toluene	No	Enters the facility (Use)	18.232 tonnes	10.637 tonnes	2014	7.595	71.40
108-88-3	Toluene	No	Creation	0 tonnes	0 tonnes	2014	0	
108-88-3	Toluene	No	Contained	17.87 tonnes	10.6 tonnes	2014	7.27	68.58
108-88-3	Toluene	Yes	Enters the facility (Use)	18.232 tonnes	0.884 tonnes	2014	17.348	1962.44
NA - M08	Total Particulate Matter	No	Enters the facility (Use)	0 tonnes	0 tonnes	2014	0	
NA - M08	Total Particulate Matter	No	Creation	27.210 tonnes	25.887 tonnes	2014	1.323	5.11
1330-20-7	Xylene (all isomers)	No	Enters the facility (Use)	3.899 tonnes	2.912 tonnes	2014	0.987	33.89
1330-20-7	Xylene (all isomers)	No	Creation	0 tonnes	0 tonnes	2014	0	

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
1330-20-7	Xylene (all isomers)	No	Contained	3.637 tonnes	2.912 tonnes	2014	0.725	24.90
1330-20-7	Xylene (all isomers)	Yes	Enters the facility (Use)	3.899 tonnes	2.514 tonnes	2014	1.385	55.09

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
75-07-0	Acetaldehyde	Other	Emission remodeling completed.
NA - 16	Ammonia (total)	Implementation of actions outside of toxics reduction plan	
71-43-2	Benzene	Increase in production levels	
630-08-0	Carbon monoxide	Other	Emission remodeling completed.
98-82-8	Cumene	Implementation of toxics reduction option(s)	
110-82-7	Cyclohexane	Increase in production levels Other	Increase in production level. Denaturant (required by Excise Canada) has a higher percentage of cyclohexane but lower levels of other toxic substances.
100-41-4	Ethylbenzene	No reasons - quantities approximately the same	
1634-04-4	Methyl tert-butyl ether	Implementation of toxics reduction option(s)	
91-20-3	Naphthalene	Implementation of toxics reduction option(s)	
110-54-3	n-Hexane	Increase in production levels Other	Emission remodeling completed.
11104-93-1	Nitrogen oxides (expressed as NO2)	Increase in production levels Other	Emission remodeling completed.
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	
7664-93-9	Sulphuric acid	Implementation of toxics reduction option(s)	
108-88-3	Toluene	Increase in production levels Other	Emission remodeling completed.
NA - M08	Total Particulate Matter	Increase in production levels Other	Emission remodeling completed.
NA - M16	Volatile Organic Compounds (VOCs)	Increase in production levels Other	Remodeling completed.
1330-20-7	Xylene (all isomers)	Other	Remodeling completed.

Comparison Report - On-site Releases

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
75-07-0	Acetaldehyde	No	Total Releases to Air	12.955 tonnes	16.586 tonnes	2014	-3.631	-21.89
75-07-0	Acetaldehyde	No	Total Releases to Water	0 tonnes	0 tonnes	2014	0	
75-07-0	Acetaldehyde	No	Total Releases to Land	0 tonnes	0 tonnes	2014	0	
75-07-0	Acetaldehyde	No	Total Releases to All Media	0 tonnes				
NA - 16	Ammonia (total)	No	Total Releases to Air	0 tonnes	2.332 tonnes	2014	-2.332	-100
NA - 16	Ammonia (total)	No	Total Releases to Water	0 tonnes	0 tonnes	2014	0	
NA - 16	Ammonia (total)	No	Total Releases to Land	0 tonnes	0 tonnes	2014	0	
NA - 16	Ammonia (total)	No	Total Releases to All Media	0 tonnes				
71-43-2	Benzene	No	Total Releases to Air	0 tonnes				
71-43-2	Benzene	No	Total Releases to Water	0 tonnes				
71-43-2	Benzene	No	Total Releases to Land	0 tonnes				
71-43-2	Benzene	No	Total Releases to All Media	0.177 tonnes	0.502 tonnes	2014	-0.325	-64.74
630-08-0	Carbon monoxide	No	Total Releases to Air	152.472 tonnes	33.713 tonnes	2014	118.759	352.26
630-08-0	Carbon monoxide	No	Total Releases to Water	0 tonnes	0 tonnes	2014	0	

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
630-08-0	Carbon monoxide	No	Total Releases to Land	0 tonnes	0 tonnes	2014	0	
630-08-0	Carbon monoxide	No	Total Releases to All Media	0 tonnes				
110-82-7	Cyclohexane	No	Total Releases to Air	0 tonnes				
110-82-7	Cyclohexane	No	Total Releases to Water	0 tonnes				
110-82-7	Cyclohexane	No	Total Releases to Land	0 tonnes				
110-82-7	Cyclohexane	No	Total Releases to All Media	0.091 tonnes	0.056 tonnes	2014	0.035	62.50
64-17-5	Ethanol	Yes	Total Releases to Air	142.503 tonnes	206.660 tonnes	2014	-64.157	-31.04
141-78-6	Ethyl acetate	Yes	Total Releases to Air	5.151 tonnes	2.427 tonnes	2014	2.724	112.24
100-41-4	Ethylbenzene	No	Total Releases to Air	0 tonnes				
100-41-4	Ethylbenzene	No	Total Releases to Water	0 tonnes				
100-41-4	Ethylbenzene	No	Total Releases to Land	0 tonnes				
100-41-4	Ethylbenzene	No	Total Releases to All Media	0.001 tonnes	0.042 tonnes	2014	-0.041	-97.62
50-00-0	Formaldehyde	Yes	Total Releases to Air	2.332 tonnes	0.713 tonnes	2014	1.619	227.07
67-56-1	Methanol	Yes	Total Releases to Air	1.798 tonnes	5.871 tonnes	2014	-4.073	-69.37
110-54-3	n-Hexane	No	Total Releases to Air	3.486 tonnes	0 tonnes	2014	3.486	100
110-54-3	n-Hexane	No	Total Releases to Water	0 tonnes	0 tonnes	2014	0	
110-54-3	n-Hexane	No	Total Releases to Land	0 tonnes	0 tonnes	2014	0	
110-54-3	n-Hexane	No	Total Releases to All Media	0 tonnes	0.037 tonnes	2014	-0.037	-100
11104-93-1	Nitrogen oxides (expressed as NO2)	No	Total Releases to Air	128.580 tonnes	79.287 tonnes	2014	49.293	62.17
11104-93-1	Nitrogen oxides (expressed as NO2)	No	Total Releases to Water	0 tonnes	0 tonnes	2014	0	
11104-93-1	Nitrogen oxides (expressed as NO2)	No	Total Releases to Land	0 tonnes	0 tonnes	2014	0	
11104-93-1	Nitrogen oxides (expressed as NO2)	No	Total Releases to All Media	0 tonnes				
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to Air	16.358 tonnes	14.954 tonnes	2014	1.404	9.39
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to Water	0 tonnes	0 tonnes	2014	0	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to Land	0 tonnes	0 tonnes	2014	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	5.016 tonnes	5.202 tonnes	2014	-0.186	-3.58
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to Water	0 tonnes	0 tonnes	2014	0	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to Land	0 tonnes	0 tonnes	2014	0	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to All Media	0 tonnes				
108-88-3	Toluene	No	Total Releases to Air	0 tonnes	3.009 tonnes	2011	-3.009	-100
108-88-3	Toluene	No	Total Releases to Water	0 tonnes	0 tonnes	2011	0	
108-88-3	Toluene	No	Total Releases to Land	0 tonnes	0 tonnes	2011	0	
108-88-3	Toluene	No	Total Releases to All Media	0.362 tonnes	0.037 tonnes	2014	0.325	878.38
NA - M08	Total Particulate Matter	No	Total Releases to Air	27.210 tonnes	25.887 tonnes	2014	1.323	5.11
NA - M08	Total Particulate Matter	No	Total Releases to Water	0 tonnes	0 tonnes	2014	0	
NA - M08	Total Particulate Matter	No	Total Releases to Land	0 tonnes	0 tonnes	2014	0	

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - M08	Total Particulate Matter	No	Total Releases to All Media	0 tonnes				
1330-20-7	Xylene (all isomers)	No	Total Releases to Air	0 tonnes	2.337 tonnes	2011	-2.337	-100
1330-20-7	Xylene (all isomers)	No	Total Releases to Water	0 tonnes	0 tonnes	2011	0	
1330-20-7	Xylene (all isomers)	No	Total Releases to Land	0 tonnes	0 tonnes	2011	0	
1330-20-7	Xylene (all isomers)	No	Total Releases to All Media	0.262 tonnes	0.224 tonnes	2014	0.038	16.96

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
75-07-0	Acetaldehyde	Other	Emission remodeling completed.
NA - 16	Ammonia (total)	Implementation of actions outside of toxics reduction plan	
71-43-2	Benzene	Other	Remodeling completed.
630-08-0	Carbon monoxide	Other	Emission remodeling completed.
110-82-7	Cyclohexane	Increase in production levels Other	Increase in production levels. Cyclohexane is higher in this denaturant but has lower levels of other toxic substances.
100-41-4	Ethylbenzene	Implementation of toxics reduction option(s)	
110-54-3	n-Hexane	Other	Remodeling completed
11104-93-1	Nitrogen oxides (expressed as NO2)	Increase in production levels Other	Emission remodeling completed
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	
108-88-3	Toluene	Increase in production levels Other	Emission remodeling completed.
NA - M08	Total Particulate Matter	Other	Emission remodeling completed.
NA - M16	Volatile Organic Compounds (VOCs)	Other	Remodeling completed.
1330-20-7	Xylene (all isomers)	Other	Remodeling completed.

Pollution Prevention

Does the facility have a documented pollution prevention plan?

Yes

a) Please check all that apply

Plan was required by a P2 Planning Notice published under the Canadian Environmental Protection Act, 1999? Specify name in comments field below.

b) Did the facility update their plan in the current reporting year?

Yes

c) Does the plan address substances, energy conservation, or water conservation?

Substances

Please summarize your pollution prevention plan and/or your pollution prevention activities (this information will be publicly available)

Plan addresses ammonia.

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
75-07-0	Acetaldehyde	While GFE, Johnstown Facility does not intend to reduce the creation of acetaldehyde at the present time, any opportunities for reduction will be reviewed and considered.
NA - 16	Ammonia (total)	Greenfield Johnstown Limited Partnership Facility does not intend to reduce its use of ammonia at this time.
71-43-2	Benzene	GFE, Johnstown Facility intends to reduce the use of Benzene by 53%.
630-08-0	Carbon monoxide	While Greenfield Johnstown Limited Partnership Facility does not intend to reduce the creation of carbon monoxide at the present time, any opportunities for reduction will be reviewed and considered.
98-82-8	Cumene	Greenfield Johnstown Limited Partnership Facility does intend to reduce the use of cumene.
110-82-7	Cyclohexane	It has been determined that it is not technically and economically feasible at this time to reduce the use of cyclohexane. Even though Greenfield Johnstown Limited Partnership has decided not to implement any reduction options at this time it will revisit it in the future.
64-17-5	Ethanol	No toxic substance reduction options will be implemented at this time but many initiatives have been implemented to reduce ethyl alcohol losses through leak prevention programs and a computer monitoring system to ensure optimum production conditions are maintained.

CAS RN	Substance Name	Objectives
141-78-6	Ethyl acetate	- Greenfield Johnstown Limited Partnership Facility intends to reduce the creation of ethyl acetate by introducing a Corn oil extraction process to reduce dryer throughput.
100-41-4	Ethylbenzene	GFE, Johnstown Facility intends to reduce the use of Ethylbenzene by 100%.
50-00-0	Formaldehyde	While GFE, Johnstown Facility does not intend to reduce the creation of formaldehyde at the present time, any opportunities for reduction will be reviewed and considered.
67-56-1	Methanol	While GFE, Johnstown Facility does not intend to reduce the creation of methanol at the present time, future opportunities for reduction will be reviewed and considered.
1634-04-4	Methyl tert-butyl ether	Greenfield Johnstown Limited Partnership Facility does intend to reduce the use of methyl tert-butyl ether by substituting regular gasoline with natural gasoline, containing lower levels of toxic substances.
91-20-3	Naphthalene	GFE, Johnstown Facility intends to reduce the use of Naphthalene by 100%
110-54-3	n-Hexane	It has been determined that it is not technically and economically feasible at this time to reduce the use of hexane. Even though Greenfield Johnstown Limited Partnership has decided not to implement any reduction options at this time it will revisit it in the future.
11104-93-1	Nitrogen oxides (expressed as NO2)	While Greenfield Johnstown Limited Partnership Facility does not intend to reduce the creation of nitrogen oxides at the present time, any opportunities for reduction will be reviewed and considered.
NA - 35	Pentane (all isomers)	It has been determined that it is not technically and economically feasible at this time to reduce the use of pentane. Even though Greenfield Johnstown Limited Partnership has decided not to implement any reduction options at this time it will revisit it in the future.
NA - M09	PM10 - Particulate Matter <= 10 Microns	While Greenfield Johnstown Limited Partnership Facility does not intend to reduce the creation of PM 10 Particulate Matter at the present time, any opportunities for reduction will be reviewed and considered. Leak prevention programs are in place to minimize particulate matter as well a computerized program was installed to maintain operating parameters within a tight tolerance and therefore again minimizing leaks and inefficiencies.
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	While Greenfield Johnstown Limited Partnership Facility does not intend to reduce the creation of PM 2.5 Particulate Matter at the present time, any opportunities for reduction will be reviewed and considered. Leak prevention programs are in place to minimize particulate matter as well a computerized program was installed to maintain operating parameters within a tight tolerance and therefore again minimizing leaks and inefficiencies.
7664-93-9	Sulphuric acid	GFE, Johnstown Facility intends to reduce the use of sulphuric acid by 15% over a 6 year period.
108-88-3	Toluene	GFE, Johnstown Facility intends to reduce the use of Toluene by 97%.
NA - M08	Total Particulate Matter	While Greenfield Johnstown Limited Partnership Facility does not intend to reduce the creation of Total Particulate Matter at the present time, any opportunities for reduction will be reviewed and considered. Leak prevention programs are in place to minimize particulate matter as well a computerized program was installed to maintain operating parameters within a tight tolerance and therefore again minimizing leaks and inefficiencies.
1330-20-7	Xylene (all isomers)	GFE, Johnstown Facility intends to reduce the use of Xylene by 99%.

Progress on TRA Plan - Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
75-07-0	Acetaldehyde	No quantity target	No timeline target	
NA - 16	Ammonia (total)	No quantity target	No timeline target	
71-43-2	Benzene	14.3 tonnes	1	
630-08-0	Carbon monoxide	No quantity target	No timeline target	
98-82-8	Cumene	No quantity target	No timeline target	
110-82-7	Cyclohexane	No quantity target	No timeline target	
64-17-5	Ethanol	No quantity target	No timeline target	
141-78-6	Ethyl acetate	No quantity target	No timeline target	
100-41-4	Ethylbenzene	60.5 tonnes	1	GFE, Johnstown Facility intends to reduce the use of Ethylbenzene by 100%.
50-00-0	Formaldehyde	No quantity target	No timeline target	
67-56-1	Methanol	No quantity target	No timeline target	
1634-04-4	Methyl tert-butyl ether	No quantity target	No timeline target	
91-20-3	Naphthalene	20.12 tonnes	1	
110-54-3	n-Hexane	No quantity target	No timeline target	
11104-93-1	Nitrogen oxides (expressed as NO2)	No quantity target	No timeline target	
NA - 35	Pentane (all isomers)	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	
7664-93-9	Sulphuric acid	206 tonnes	6	
108-88-3	Toluene	391.7 tonnes	1	

CAS RN	Substance Name	Quantity	Years	Description of Target
NA - M08	Total Particulate Matter	No quantity target	No timeline target	
1330-20-7	Xylene (all isomers)	299.9 tonnes	1	

Progress on TRA Plan - Description

CAS RN	Substance Name	Quantity	Years	Description of Target
75-07-0	Acetaldehyde	No quantity target	No timeline target	
NA - 16	Ammonia (total)	No quantity target	No timeline target	
71-43-2	Benzene	No quantity target	No timeline target	
630-08-0	Carbon monoxide	No quantity target	No timeline target	
98-82-8	Cumene	No quantity target	No timeline target	
110-82-7	Cyclohexane	No quantity target	No timeline target	
64-17-5	Ethanol	No quantity target	No timeline target	
141-78-6	Ethyl acetate	No quantity target	No timeline target	
100-41-4	Ethylbenzene	No quantity target	No timeline target	
50-00-0	Formaldehyde	No quantity target	No timeline target	
67-56-1	Methanol	No quantity target	No timeline target	
1634-04-4	Methyl tert-butyl ether	No quantity target	No timeline target	
91-20-3	Naphthalene	No quantity target	No timeline target	
110-54-3	n-Hexane	No quantity target	No timeline target	
11104-93-1	Nitrogen oxides (expressed as NO2)	No quantity target	No timeline target	
NA - 35	Pentane (all isomers)	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	
7664-93-9	Sulphuric acid	No quantity target	No timeline target	
108-88-3	Toluene	No quantity target	No timeline target	
NA - M08	Total Particulate Matter	No quantity target	No timeline target	
1330-20-7	Xylene (all isomers)	No quantity target	No timeline target	

Progress on TRA Plan - Toxic Reduction Options Implemented

CAS RN	Substance Name	Activity	Steps that were taken in the reporting period to implement the toxic reduction option	Public summary of the description of the steps	Comparison of the steps that were described in the plan for implementation with the actual steps taken during the reporting period	Public summary of the comparison of the steps
71-43-2	Benzene	Substituted materials	Gasoline is used for denaturing fuel grade ethyl alcohol per Canada Revenue Agency (Excise) criteria. We have substituted gasoline with natural gasoline which has lower amounts of benzene.	Gasoline is used for denaturing fuel grade ethyl alcohol per Canada Revenue Agency (Excise) criteria. We have substituted gasoline with natural gasoline which has lower amounts of benzene.	We have switched to 100% natural gasoline as per our schedule but our currently using more of the denaturant.	Gasoline is used for denaturing fuel grade ethyl alcohol per Canada Revenue Agency (Excise) criteria. We have substituted gasoline with natural gasoline which has lower amounts of benzene.
98-82-8	Cumene	Substituted materials	Gasoline is used for denaturing fuel grade ethyl alcohol per Canada Revenue Agency (Excise) criteria. We have substituted gasoline with natural gasoline which does not have cumene as a component.	Gasoline is used for denaturing fuel grade ethyl alcohol per Canada Revenue Agency (Excise) criteria. We have substituted gasoline with natural gasoline which does not have cumene as a component.	We have substituted gasoline with natural gasoline 100% as per our schedule.	Gasoline is used for denaturing fuel grade ethyl alcohol per Canada Revenue Agency (Excise) criteria. We have substituted gasoline with natural gasoline which does not have cumene as a component.
141-78-6	Ethyl acetate	Modified equipment, layout or piping	- Greenfield Johnstown Limited Partnership Facility intends to reduce the creation of ethyl acetate by introducing a Corn oil extraction process to reduce dryer throughput	- Greenfield Johnstown Limited Partnership Facility intends to reduce the creation of ethyl acetate by introducing a Corn oil extraction process to reduce dryer throughput	Corn oil extraction equipment was put in place and operating as per schedule.	- Greenfield Johnstown Limited Partnership Facility intends to reduce the creation of ethyl acetate by introducing a Corn oil extraction process to reduce dryer throughput
100-41-4	Ethylbenzene	Substituted materials	Gasoline is used for denaturing fuel grade ethyl alcohol per Canada Revenue Agency (Excise) criteria. We have substituted regular gasoline with natural gasoline, which does not contain ethylbenzene	Gasoline is used for denaturing fuel grade ethyl alcohol per Canada Revenue Agency (Excise) criteria. We have substituted regular gasoline with natural gasoline, which does not contain ethylbenzene	We are on schedule using 100% natural gasoline as the denaturant for ethyl alcohol as per our plan.	Gasoline is used for denaturing fuel grade ethyl alcohol per Canada Revenue Agency (Excise) criteria. We have substituted regular gasoline with natural gasoline, which does not contain ethylbenzene
1634-04-4	Methyl tert-butyl ether	Substituted materials	Gasoline is used for denaturing fuel grade ethyl alcohol per Canada Revenue Agency (Excise) criteria. We have substituted gasoline with natural gasoline which does not contain Methyl tert-butyl ether.	Gasoline is used for denaturing fuel grade ethyl alcohol per Canada Revenue Agency (Excise) criteria. We have substituted gasoline with natural gasoline which does not contain Methyl tert-butyl ether.	We have substituted gasoline with natural gasoline by 100%.	Gasoline is used for denaturing fuel grade ethyl alcohol per Canada Revenue Agency (Excise) criteria. We have substituted gasoline with natural gasoline which does not contain Methyl tert-butyl ether.
			Gasoline is used for denaturing	Gasoline is used for denaturing		Gasoline is used for denaturing

CAS RN	Substance Name	Activity	Steps that were taken in the reporting period to implement the toxic reduction option	Public summary of the description of the steps	Comparison of the steps that were described in the plan for implementation with the actual steps taken during the reporting period	Public summary of the comparison of the steps
91-20-3	Naphthalene	Substituted materials	fuel grade ethyl alcohol per Canada Revenue Agency (Excise) criteria. We have substituted gasoline with natural gasoline which does not have naphthalene in it.	fuel grade ethyl alcohol per Canada Revenue Agency (Excise) criteria. We have substituted gasoline with natural gasoline which does not have naphthalene in it.	We have substituted with natural gasoline 100% as per our schedule.	fuel grade ethyl alcohol per Canada Revenue Agency (Excise) criteria. We have substituted gasoline with natural gasoline which does not have naphthalene in it.
7664-93-9	Sulphuric acid	Substituted materials	-Trial a new phytase enzyme to reduce requirement of sulphuric acid for pH control.	-Trial a new phytase enzyme to reduce requirement of sulphuric acid for pH control.	Research and trials for new enzymes are taking place on a regular basis and as they become available by the supplier.	-Trial a new phytase enzyme to reduce requirement of sulphuric acid for pH control.
108-88-3	Toluene	Substituted materials	Gasoline is used for denaturing fuel grade ethyl alcohol per Canada Revenue Agency (Excise) criteria. We have substituted gasoline with natural gasoline which contains less toluene.	Gasoline is used for denaturing fuel grade ethyl alcohol per Canada Revenue Agency (Excise) criteria. We have substituted gasoline with natural gasoline which contains less toluene.	We have switched to 100% natural gasoline use as a denaturant.	Gasoline is used for denaturing fuel grade ethyl alcohol per Canada Revenue Agency (Excise) criteria. We have substituted gasoline with natural gasoline which contains less toluene.
1330-20-7	Xylene (all isomers)	Substituted materials	Gasoline is used for denaturing fuel grade ethyl alcohol per Canada Revenue Agency (Excise) criteria. We have substituted gasoline with natural gasoline which lower amounts of xylene.	Gasoline is used for denaturing fuel grade ethyl alcohol per Canada Revenue Agency (Excise) criteria. We have substituted gasoline with natural gasoline which lower amounts of xylene.	We have switched to 100% usage of natural gasoline as per schedule.	Gasoline is used for denaturing fuel grade ethyl alcohol per Canada Revenue Agency (Excise) criteria. We have substituted gasoline with natural gasoline which lower amounts of xylene.

Progress on TRA Plan - Reductions due to Options Implemented - Equipment or process modifications

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
141-78-6	Ethyl acetate	Modified equipment, layout or piping	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
141-78-6	Ethyl acetate	Modified equipment, layout or piping	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
141-78-6	Ethyl acetate	Modified equipment, layout or piping	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	No Amount
141-78-6	Ethyl acetate	Modified equipment, layout or piping	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
141-78-6	Ethyl acetate	Modified equipment, layout or piping	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
141-78-6	Ethyl acetate	Modified equipment, layout or piping	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
141-78-6	Ethyl acetate	Modified equipment, layout or piping	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 steps described:	No Amount
141-78-6	Ethyl acetate	Modified equipment, layout or piping	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 steps described:	No Amount
141-78-6	Ethyl acetate	Modified equipment, layout or piping	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	No Amount

Progress on TRA Plan - Reductions due to Options Implemented - Materials or feedstock substitution

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
71-43-2	Benzene	Substituted materials	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
71-43-2	Benzene	Substituted materials	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
71-43-2	Benzene	Substituted materials	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	No Amount
71-43-2	Benzene	Substituted materials	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	0.276 tonnes
71-43-2	Benzene	Substituted materials	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
71-43-2	Benzene	Substituted materials	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
71-43-2	Benzene	Substituted materials	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 steps described:	No Amount
71-43-2	Benzene	Substituted materials	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 steps described:	No Amount
71-43-2	Benzene	Substituted materials	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	No Amount
98-82-8	Cumene	Substituted materials	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	12.539 tonnes
98-82-8	Cumene	Substituted materials	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
7664-93-9	Sulphuric acid	Substituted materials	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7664-93-9	Sulphuric acid	Substituted materials	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7664-93-9	Sulphuric acid	Substituted materials	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
7664-93-9	Sulphuric acid	Substituted materials	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 steps described:	No Amount
7664-93-9	Sulphuric acid	Substituted materials	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 steps described:	No Amount
7664-93-9	Sulphuric acid	Substituted materials	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	No Amount
108-88-3	Toluene	Substituted materials	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	384.1 tonnes
108-88-3	Toluene	Substituted materials	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
108-88-3	Toluene	Substituted materials	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	382.1 tonnes
108-88-3	Toluene	Substituted materials	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	2.088 tonnes
108-88-3	Toluene	Substituted materials	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
108-88-3	Toluene	Substituted materials	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
108-88-3	Toluene	Substituted materials	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 steps described:	No Amount
108-88-3	Toluene	Substituted materials	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 steps described:	No Amount
108-88-3	Toluene	Substituted materials	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	No Amount
1330-20-7	Xylene (all isomers)	Substituted materials	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	297.8 tonnes
1330-20-7	Xylene (all isomers)	Substituted materials	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
1330-20-7	Xylene (all isomers)	Substituted materials	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	286.4 tonnes
1330-20-7	Xylene (all isomers)	Substituted materials	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	11.3 tonnes
1330-20-7	Xylene (all isomers)	Substituted materials	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
1330-20-7	Xylene (all isomers)	Substituted materials	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
1330-20-7	Xylene (all isomers)	Substituted materials	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 steps described:	No Amount
1330-20-7	Xylene (all isomers)	Substituted materials	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 steps described:	No Amount
1330-20-7	Xylene (all isomers)	Substituted materials	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	No Amount

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
75-07-0	Acetaldehyde	No		
NA - 16	Ammonia (total)	Yes	Trialing of enzymes in fermentation to reduce ammonia usage.	Trialing of enzymes in fermentation to reduce ammonia usage.
71-43-2	Benzene	No		
630-08-0	Carbon monoxide	No		
98-82-8	Cumene	No		
110-82-7	Cyclohexane	No		
64-17-5	Ethanol	No		
141-78-6	Ethyl acetate	No		
100-41-4	Ethylbenzene	No		
50-00-0	Formaldehyde	No		
67-56-1	Methanol	No		
1634-04-4	Methyl tert-butyl ether	No		
91-20-3	Naphthalene	No		
110-54-3	n-Hexane	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
11104-93-1	Nitrogen oxides (expressed as NO2)	No		
NA - 35	Pentane (all isomers)	No		
NA - M09	PM10 - Particulate Matter <= 10 Microns	No		
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No		
7664-93-9	Sulphuric acid	No		
108-88-3	Toluene	No		
NA - M08	Total Particulate Matter	No		
1330-20-7	Xylene (all isomers)	No		

Progress on TRA Plan - Reductions due to additional actions taken

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
75-07-0	Acetaldehyde	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
75-07-0	Acetaldehyde	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
75-07-0	Acetaldehyde	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
75-07-0	Acetaldehyde	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.	
75-07-0	Acetaldehyde	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.	
75-07-0	Acetaldehyde	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.	
75-07-0	Acetaldehyde	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.	
75-07-0	Acetaldehyde	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.	
75-07-0	Acetaldehyde	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.	112.7 tonnes
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.	No Amount
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.	No Amount
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.	No Amount
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.	No Amount
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.	No Amount
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.	No Amount
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.	No Amount
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.	No Amount
71-43-2	Benzene	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
71-43-2	Benzene	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
71-43-2	Benzene	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
71-43-2	Benzene	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.	
71-43-2	Benzene	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.	
71-43-2	Benzene	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.	
71-43-2	Benzene	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
108-88-3	Toluene	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.	
108-88-3	Toluene	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.	
108-88-3	Toluene	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.	
108-88-3	Toluene	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.	
108-88-3	Toluene	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.	
1330-20-7	Xylene (all isomers)	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	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.	
1330-20-7	Xylene (all isomers)	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.	
1330-20-7	Xylene (all isomers)	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.	
1330-20-7	Xylene (all isomers)	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.	
1330-20-7	Xylene (all isomers)	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.	
1330-20-7	Xylene (all isomers)	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
75-07-0	Acetaldehyde	No		
NA - 16	Ammonia (total)	No		
71-43-2	Benzene	No		
630-08-0	Carbon monoxide	No		
98-82-8	Cumene	No		
110-82-7	Cyclohexane	No		
64-17-5	Ethanol	No		
141-78-6	Ethyl acetate	No		
100-41-4	Ethylbenzene	No		
50-00-0	Formaldehyde	No		
67-56-1	Methanol	No		
1634-04-4	Methyl tert-butyl ether	No		
91-20-3	Naphthalene	No		
110-54-3	n-Hexane	No		
11104-93-1	Nitrogen oxides (expressed as NO2)	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
NA - 35	Pentane (all isomers)	No		
NA - M09	PM10 - Particulate Matter <= 10 Microns	No		
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No		
7664-93-9	Sulphuric acid	No		
108-88-3	Toluene	No		
NA - M08	Total Particulate Matter	No		
1330-20-7	Xylene (all isomers)	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

GreenField Specialty Alcohols Inc.

Certifying Official (or authorized delegate)

Dianne Schenk

Report Submitted by

Brendan Bland

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 25/05/2016, I, Brendan Bland, 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
100-41-4	Ethylbenzene
108-88-3	Toluene
110-54-3	n-Hexane
110-82-7	Cyclohexane
11104-93-1	Nitrogen oxides (expressed as NO2)
1330-20-7	Xylene (all isomers)
1634-04-4	Methyl tert-butyl ether
630-08-0	Carbon monoxide
71-43-2	Benzene
75-07-0	Acetaldehyde

7664-93-9	Sulphuric acid
91-20-3	Naphthalene
98-82-8	Cumene
NA - 16	Ammonia (total)
NA - M08	Total Particulate Matter
NA - M09	PM10 - Particulate Matter <= 10 Microns
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns
NA - M16	Volatile Organic Compounds (VOCs)

Company Name

GreenField Specialty Alcohols Inc.

Highest Ranking Employee

Brendan Bland

Report Submitted by

Brendan Bland

Website address

www.gfsa.com

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
2015	25/05/2016	Johnstown Plant	Ontario	Prescott	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: 3.10.0



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