

National Pollutant Release Inventory (NPRI) and



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Report Preview

Report Details

Report Year	2014
Report Type:	NPRI,ON MOE TRA
Report Status:	Update 1 - Submitted
Modified Date/Time:	29/12/2015 10:16 AM
Report Update Comments:	Update plan summaries.

Company and Facility Details

Company Name:	Toyota Boshoku Canada Inc.
Mailing Address:	Address Line 1: 230 Universal Road City, Province/Territory, Postal Code: Woodstock Ontario N4S 7W3 Country: Canada
Facility Name:	Toyota Boshoku Canada
NAICS Code:	332999
NPRI ID:	11773
Physical Address:	Address Line 1: 230 Universal Road City, Province/Territory, Postal Code: Woodstock Ontario N4S7W3 Country: Canada Latitude: 43.12770 Longitude: -80.71050 UTM Zone: 17 UTM Easting: 523547 UTM Northing: 4775036

Contacts Details

Contact Type	Technical Contact
Name:	Jason Dittburner
Position:	Plant Specialist

Contact Type	Certifying Official, Highest Ranking Employee
Name:	Norimichi Adachi
Position:	President

Contact Type:	Person who prepared the report
Name:	Lloyd Hipel
Position:	Project Manager

Mailing Address:	Delivery Mode: GeneralDelivery Address Line 1: 1 Union Street City, Province/Territory, Postal Code: Elmira Ontario N3B 3J9 Country: Canada
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General Information

Number of employees:	500
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:	Yes
Operating Schedule - Days of the Week:	Mon, Tue, Wed, Thu, Fri
Usual Number of Operating Hours per day:	16
Usual Daily Start Time (24h) (hh:mm):	07:00

Shutdown Periods:

From 2014-07-12 To 2014-07-20	
From 2014-12-24 To 2014-12-31	

Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
110-82-7	Cyclohexane	11.6280	N/A	N/A	N/A	tonnes
67-56-1	Methanol	1.4540	N/A	N/A	N/A	tonnes
NA - M09	PM10 - Particulate Matter <= 10 Microns	1.0720	N/A	N/A	N/A	tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	0.5490	N/A	N/A	N/A	tonnes
108-88-3	Toluene	3.9750	N/A	N/A	N/A	tonnes
NA - M16	Volatile Organic Compounds (VOCs)	64.1130	48.9660	N/A	N/A	tonnes
1330-20-7	Xylene (all isomers)	2.8390	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
110-82-7	Cyclohexane	Yes	Yes		No
67-56-1	Methanol	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
108-88-3	Toluene	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
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
110-82-7	Cyclohexane	Yes	No	No
67-56-1	Methanol	Yes	No	No
108-88-3	Toluene	Yes	No	No
NA - M16	Volatile Organic Compounds (VOCs)		No	Yes
1330-20-7	Xylene (all isomers)	Yes	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
110-82-7	Cyclohexane	No	No	No
67-56-1	Methanol	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
110-82-7	Cyclohexane			As a physical or chemical processing aid
67-56-1	Methanol			As a physical or chemical processing aid
108-88-3	Toluene			As a physical or chemical processing aid
NA - M16	Volatile Organic Compounds (VOCs)			
1330-20-7	Xylene (all isomers)			As a physical or chemical processing aid

TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
110-82-7	Cyclohexane	Use	11.628 tonnes	Yes
110-82-7	Cyclohexane	Creation	0 tonnes	No
110-82-7	Cyclohexane	Contained in Product	0 tonnes	No
67-56-1	Methanol	Use	1.454 tonnes	Yes
67-56-1	Methanol	Creation	0 tonnes	No
67-56-1	Methanol	Contained in Product	0 tonnes	No
NA - M09	PM10 - Particulate Matter <= 10 Microns	Use	0 tonnes	No
NA - M09	PM10 - Particulate Matter <= 10 Microns	Creation	1.072 tonnes	Yes
NA - M09	PM10 - Particulate Matter <= 10 Microns	Contained in Product		
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Use	0 tonnes	No
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Creation	0.549 tonnes	Yes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Contained in Product		
108-88-3	Toluene	Use	3.975 tonnes	Yes
108-88-3	Toluene	Creation	0 tonnes	No
108-88-3	Toluene	Contained in Product	0 tonnes	No
NA - M16	Volatile Organic Compounds (VOCs)	Use	64.113 tonnes	Yes
NA - M16	Volatile Organic Compounds (VOCs)	Creation	0 tonnes	No
NA - M16	Volatile Organic Compounds (VOCs)	Contained in Product		
1330-20-7	Xylene (all isomers)	Use	2.839 tonnes	Yes
1330-20-7	Xylene (all isomers)	Creation	0 tonnes	No
1330-20-7	Xylene (all isomers)	Contained in Product	0 tonnes	No

TRA Quantifications - VOC Breakdown List

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity
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CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity
141-78-6	Ethyl acetate	Use	29.07 tonnes
141-78-6	Ethyl acetate	Creation	0 tonnes
NA - 31	Heptane (all isomers)	Use	11.628 tonnes
NA - 31	Heptane (all isomers)	Creation	0 tonnes
67-56-1	Methanol	Use	1.454 tonnes
67-56-1	Methanol	Creation	0 tonnes
108-88-3	Toluene	Use	3.975 tonnes
108-88-3	Toluene	Creation	0 tonnes
1330-20-7	Xylene (all isomers)	Use	2.839 tonnes
1330-20-7	Xylene (all isomers)	Creation	0 tonnes

TRA Quantifications - Total Speciated VOCs

Use, Creation, Contained in Product	Quantity
Use	48.966 tonnes
Creation	0 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	Description of how an incident(s) affected quantifications	Significant Process Change
110-82-7	Cyclohexane					No
67-56-1	Methanol					No
NA - M09	PM10 - Particulate Matter <= 10 Microns					No
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns					No
108-88-3	Toluene					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
110-82-7	Cyclohexane	Stack or Point Releases	O - Engineering Estimates		11.628 tonnes
67-56-1	Methanol	Stack or Point Releases	O - Engineering Estimates		1.454 tonnes
NA - M09	PM10 - Particulate Matter <= 10 Microns	Stack or Point Releases	O - Engineering Estimates		1.072 tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Stack or Point Releases	O - Engineering Estimates		0.549 tonnes
108-88-3	Toluene	Stack or Point Releases	O - Engineering Estimates		3.975 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Stack or Point Releases	O - Engineering Estimates		64.113 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Other Sources - Speciated VOCs	NA - Not Applicable		64.113 tonnes
1330-20-7	Xylene (all isomers)	Stack or Point Releases	O - Engineering Estimates		2.839 tonnes

On-site Releases - Releases to air - Total

CAS RN	Substance Name	Total - Releases to Air
110-82-7	Cyclohexane	11.628 tonnes
67-56-1	Methanol	1.454 tonnes
NA - M09	PM10 - Particulate Matter <= 10 Microns	1.072 tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	0.549 tonnes
108-88-3	Toluene	3.975 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	64.113 tonnes
1330-20-7	Xylene (all isomers)	2.839 tonnes

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

Category	CAS RN	Substance Name	Quantity
Other Sources - Speciated VOCs	141-78-6	Ethyl acetate	29.07 tonnes
Other Sources - Speciated VOCs	NA - 31	Heptane (all isomers)	11.628 tonnes
Other Sources - Speciated VOCs	67-56-1	Methanol	1.454 tonnes
Other Sources - Speciated VOCs	108-88-3	Toluene	3.975 tonnes
Other Sources - Speciated VOCs	1330-20-7	Xylene (all isomers)	2.839 tonnes

On-site Releases - Total

CAS RN	Substance Name	Total releases
110-82-7	Cyclohexane	11.628 tonnes
67-56-1	Methanol	1.454 tonnes
108-88-3	Toluene	3.975 tonnes
1330-20-7	Xylene (all isomers)	2.839 tonnes

On-site Releases - Quarterly Breakdown of Annual Releases

CAS RN	Substance Name	Quarter 1	Quarter 2	Quarter 3	Quarter 4
110-82-7	Cyclohexane				
67-56-1	Methanol				
108-88-3	Toluene				
1330-20-7	Xylene (all isomers)				

On-site Releases - Monthly Breakdown of Annual Releases

CAS RN	Substance Name	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
NA - M09	PM10 - Particulate Matter <= 10 Microns												
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns												
NA - M16	Volatile Organic Compounds (VOCs)												

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
108-88-3	Toluene	Changes in production levels	
110-82-7	Cyclohexane	Not applicable (first year reporting this substance)	
1330-20-7	Xylene (all isomers)	Changes in production levels	
67-56-1	Methanol	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)	Changes in production levels	

Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities from Previous Year	Comments
108-88-3	Toluene		Other (specify in On-site Releases comment field)	
110-82-7	Cyclohexane		Other (specify in On-site Releases comment field)	
1330-20-7	Xylene (all isomers)		Other (specify in On-site Releases comment field)	
67-56-1	Methanol		Other (specify in On-site Releases comment field)	

Recycling - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Recycled	Reasons for Changes in Quantities Recycled from Previous Year	Comments
108-88-3	Toluene		Changes in production levels Other (specify in recycling comments field)	
110-82-7	Cyclohexane		Other (specify in recycling comments field)	
1330-20-7	Xylene (all isomers)		Other (specify in recycling comments field)	
67-56-1	Methanol		Other (specify in recycling comments field)	

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
110-82-7	Cyclohexane	No	Enters the facility (Use)	11.628 tonnes	10.182 tonnes	2013	1.446	14.20
110-82-7	Cyclohexane	No	Creation	0 tonnes	0 tonnes	2013	0	
110-82-7	Cyclohexane	No	Contained in Product	0 tonnes	0 tonnes	2013	0	

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
141-78-6	Ethyl acetate	Yes	Enters the facility (Use)	29.07 tonnes	25.455 tonnes	2013	3.615	14.20
141-78-6	Ethyl acetate	Yes	Creation	0 tonnes	0 tonnes	2013	0	
NA - 31	Heptane (all isomers)	Yes	Enters the facility (Use)	11.628 tonnes	10.182 tonnes	2013	1.446	14.20
NA - 31	Heptane (all isomers)	Yes	Creation	0 tonnes	0 tonnes	2013	0	
67-56-1	Methanol	No	Enters the facility (Use)	1.454 tonnes	1.273 tonnes	2013	0.181	14.22
67-56-1	Methanol	No	Creation	0 tonnes	0 tonnes	2013	0	
67-56-1	Methanol	No	Contained in Product	0 tonnes	0 tonnes	2013	0	
67-56-1	Methanol	Yes	Enters the facility (Use)	1.454 tonnes	1.273 tonnes	2013	0.181	14.22
67-56-1	Methanol	Yes	Creation	0 tonnes	0 tonnes	2013	0	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Enters the facility (Use)	0 tonnes	0 tonnes	2013	0	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Creation	1.072 tonnes	1.099 tonnes	2013	-0.027	-2.46
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Enters the facility (Use)	0 tonnes	0 tonnes	2013	0	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Creation	0.549 tonnes	0.564 tonnes	2013	-0.015	-2.66
108-88-3	Toluene	No	Enters the facility (Use)	3.975 tonnes	2.430 tonnes	2013	1.545	63.58
108-88-3	Toluene	No	Creation	0 tonnes	0 tonnes	2013	0	
108-88-3	Toluene	No	Contained in Product	0 tonnes	0 tonnes	2013	0	
108-88-3	Toluene	Yes	Enters the facility (Use)	3.975 tonnes	2.430 tonnes	2013	1.545	63.58
108-88-3	Toluene	Yes	Creation	0 tonnes	0 tonnes	2013	0	
1330-20-7	Xylene (all isomers)	No	Enters the facility (Use)	2.839 tonnes	1.736 tonnes	2013	1.103	63.54
1330-20-7	Xylene (all isomers)	No	Creation	0 tonnes	0 tonnes	2013	0	
1330-20-7	Xylene (all isomers)	No	Contained in Product	0 tonnes	0 tonnes	2013	0	
1330-20-7	Xylene (all isomers)	Yes	Enters the facility (Use)	2.839 tonnes	1.736 tonnes	2013	1.103	63.54
1330-20-7	Xylene (all isomers)	Yes	Creation	0 tonnes	0 tonnes	2013	0	

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
110-82-7	Cyclohexane	Increase in production levels	
67-56-1	Methanol	Increase in production levels	
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	
NA - M16	Volatile Organic Compounds (VOCs)	Increase in production levels	
1330-20-7	Xylene (all isomers)	Increase in production levels	

Comparison Report - On-site Releases

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
110-82-7	Cyclohexane	No	Total Releases to Air	11.628 tonnes	10.182 tonnes	2013	1.446	14.20
110-82-7	Cyclohexane	No	Total Releases to Water	0 tonnes	0 tonnes	2013	0	
110-82-7	Cyclohexane	No	Total Releases to Land	0 tonnes	0 tonnes	2013	0	
110-82-7	Cyclohexane	No	Total Releases to All Media	0 tonnes	0 tonnes	2013	0	
141-78-6	Ethyl acetate	Yes	Total Releases to Air	29.07 tonnes	25.455 tonnes	2013	3.615	14.20
NA - 31	Heptane (all isomers)	Yes	Total Releases to Air	11.628 tonnes	10.182 tonnes	2013	1.446	14.20
67-56-1	Methanol	No	Total Releases to Air	1.454 tonnes	1.273 tonnes	2013	0.181	14.22
67-56-1	Methanol	No	Total Releases to Water	0 tonnes	0 tonnes	2013	0	

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
67-56-1	Methanol	No	Total Releases to Land	0 tonnes	0 tonnes	2013	0	
67-56-1	Methanol	No	Total Releases to All Media	0 tonnes	0 tonnes	2013	0	
67-56-1	Methanol	Yes	Total Releases to Air	1.454 tonnes	1.273 tonnes	2013	0.181	14.22
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to Air	1.072 tonnes	1.099 tonnes	2013	-0.027	-2.46
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to Water	0 tonnes	0 tonnes	2013	0	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to Land	0 tonnes	0 tonnes	2013	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	0.549 tonnes	0.564 tonnes	2013	-0.015	-2.66
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to Water	0 tonnes	0 tonnes	2013	0	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to Land	0 tonnes	0 tonnes	2013	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	3.975 tonnes	2.430 tonnes	2013	1.545	63.58
108-88-3	Toluene	No	Total Releases to Water	0 tonnes	0 tonnes	2013	0	
108-88-3	Toluene	No	Total Releases to Land	0 tonnes	0 tonnes	2013	0	
108-88-3	Toluene	No	Total Releases to All Media	0 tonnes	0 tonnes	2013	0	
108-88-3	Toluene	Yes	Total Releases to Air	3.975 tonnes	2.430 tonnes	2013	1.545	63.58
1330-20-7	Xylene (all isomers)	No	Total Releases to Air	2.839 tonnes	1.736 tonnes	2013	1.103	63.54
1330-20-7	Xylene (all isomers)	No	Total Releases to Water	0 tonnes	0 tonnes	2013	0	
1330-20-7	Xylene (all isomers)	No	Total Releases to Land	0 tonnes	0 tonnes	2013	0	
1330-20-7	Xylene (all isomers)	No	Total Releases to All Media	0 tonnes	0 tonnes	2013	0	
1330-20-7	Xylene (all isomers)	Yes	Total Releases to Air	2.839 tonnes	1.736 tonnes	2013	1.103	63.54

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
110-82-7	Cyclohexane	Increase in production levels	
67-56-1	Methanol	Increase in production levels	
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	
NA - M16	Volatile Organic Compounds (VOCs)	Increase in production levels	
1330-20-7	Xylene (all isomers)	Increase in production levels	

Progress on TRA Plan - Objectives

CAS RN	Substance Name	Objectives
110-82-7	Cyclohexane	Toyota Boshoku Woodstock intends to reduce the use of cyclohexane through product design, equipment modification, and improved inventory techniques, and training and improved operating practices.
141-78-6	Ethyl acetate	Toyota Boshoku Woodstock intends to reduce the use of ethyl acetate through improved inventory techniques, improved operating practices.
NA - 31	Heptane (all isomers)	Toyota Boshoku Woodstock intends to reduce the use of heptane through improved inventory techniques, improved operating practices.

CAS RN	Substance Name	Objectives
67-56-1	Methanol	Toyota Boshoku Woodstock intends to reduce the use of methanol through product design, improved inventory techniques, improved operating practices.
NA - M09	PM10 - Particulate Matter <= 10 Microns	Toyota Boshoku Woodstock intends to reduce the use of PM10 through product design, equipment modification, and training and improved operating practices.
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Toyota Boshoku Woodstock intends to reduce the creation of PM2.5 through product design, equipment modification, and training and improved operating practices.
108-88-3	Toluene	Toyota Boshoku Woodstock intends to reduce the use of xylene and toluene through feedstock substitution, product design, process modification, improved inventory techniques, and training and improved operating practices.
1330-20-7	Xylene (all isomers)	Toyota Boshoku Woodstock intends to reduce the use of xylene and toluene through feedstock substitution, product design, process modification, improved inventory techniques, and training and improved operating practices.

Progress on TRA Plan - Use Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
110-82-7	Cyclohexane	No quantity target	No timeline target	
141-78-6	Ethyl acetate	No quantity target	No timeline target	
NA - 31	Heptane (all isomers)	No quantity target	No timeline target	
67-56-1	Methanol	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	
108-88-3	Toluene	No quantity target	No timeline target	
1330-20-7	Xylene (all isomers)	No quantity target	No timeline target	

Progress on TRA Plan - Creation Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
110-82-7	Cyclohexane	No quantity target	No timeline target	
141-78-6	Ethyl acetate	No quantity target	No timeline target	
NA - 31	Heptane (all isomers)	No quantity target	No timeline target	
67-56-1	Methanol	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	
108-88-3	Toluene	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	Public summary of the description of the steps	Public summary of the comparison of the steps
110-82-7	Cyclohexane	Improved application techniques	Undergoing optimization study.	Undergoing optimization study.
110-82-7	Cyclohexane	Other	Completed measure.	Completed measure.
110-82-7	Cyclohexane	Other	Measure was implemented.	Measure was implemented.
110-82-7	Cyclohexane	Other	Measure was implemented.	Measure was implemented.
110-82-7	Cyclohexane	Changed product specifications	Research & design of measure.	Research & design of measure.
110-82-7	Cyclohexane	Improved maintenance scheduling, record keeping or procedures	Developing new procedures.	Developing new procedures.
141-78-6	Ethyl acetate	Other	TBCA has discontinued this process.	TBCA has discontinued this process.
141-78-6	Ethyl acetate	Other	Through continuous improvement and kaizen activities our steps for reducing the Methanol, Ethyl acetate and heptane levels will enable us to reach our goals.	Through continuous improvement and kaizen activities our steps for reducing the Methanol, Ethyl acetate and heptane levels will enable us to reach our goals.
			Through continuous improvement and kaizen	Through continuous improvement and kaizen

CAS RN	Substance Name	Activity	Public summary of the description of the steps	Public summary of the comparison of the steps
141-78-6	Ethyl acetate	Other	activities our steps for reducing the Methanol, Ethyl acetate and heptane levels will enable us to reach our goals.	activities our steps for reducing the Methanol, Ethyl acetate and heptane levels will enable us to reach our goals.
141-78-6	Ethyl acetate	Other	Through continuous improvement and kaizen activities our steps for reducing the Methanol, Ethyl acetate and heptane levels will enable us to reach our goals.	Through continuous improvement and kaizen activities our steps for reducing the Methanol, Ethyl acetate and heptane levels will enable us to reach our goals.
NA - 31	Heptane (all isomers)	Other	Through continuous improvement and kaizen activities our steps for reducing the Methanol, Ethyl acetate and heptane levels will enable us to reach our goals.	Through continuous improvement and kaizen activities our steps for reducing the Methanol, Ethyl acetate and heptane levels will enable us to reach our goals.
NA - 31	Heptane (all isomers)	Other	Through continuous improvement and kaizen activities our steps for reducing the Methanol, Ethyl acetate and heptane levels will enable us to reach our goals.	Through continuous improvement and kaizen activities our steps for reducing the Methanol, Ethyl acetate and heptane levels will enable us to reach our goals.
67-56-1	Methanol	Other	TBCA is following the actual steps in achieving our reduction plan.	TBCA is following the actual steps in achieving our reduction plan.
67-56-1	Methanol	Other	Through continuous improvement and kaizen activities our steps for reducing the Methanol, Ethyl acetate and heptane levels will enable us to reach our goals.	Through continuous improvement and kaizen activities our steps for reducing the Methanol, Ethyl acetate and heptane levels will enable us to reach our goals.
67-56-1	Methanol	Changed product specifications	TBCA has discontinued this process.	TBCA has discontinued this process.
NA - M09	PM10 - Particulate Matter <= 10 Microns	Other	Through continuous improvement and kaizen activities our steps for reducing the PM levels will enable us to reach our goals.	Through continuous improvement and kaizen activities our steps for reducing the PM levels will enable us to reach our goals.
NA - M09	PM10 - Particulate Matter <= 10 Microns	Modified design or composition	Through continuous improvement and Kaizen activities our steps for reducing the PM levels will enable us to reach our goals.	Through continuous improvement and Kaizen activities our steps for reducing the PM levels will enable us to reach our goals.
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Other	Through continuous improvement and kaizen activities our steps for reducing the PM levels will enable us to reach our goals.	Through continuous improvement and kaizen activities our steps for reducing the PM levels will enable us to reach our goals.
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Other	Through continuous improvement and kaizen activities our steps for reducing the PM levels will enable us to reach our goals.	Through continuous improvement and kaizen activities our steps for reducing the PM levels will enable us to reach our goals.
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Modified design or composition	Through continuous improvement and Kaizen activities our steps for reducing the PM levels will enable us to reach our goals.	Through continuous improvement and Kaizen activities our steps for reducing the PM levels will enable us to reach our goals.
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Other	Through continuous improvement and kaizen activities our steps for reducing the PM levels will enable us to reach our goals.	Through continuous improvement and kaizen activities our steps for reducing the PM levels will enable us to reach our goals.
108-88-3	Toluene	Other	Trial of measure under way.	Trial of measure under way.
108-88-3	Toluene	Instituted improved purchasing procedures	Developing new inventory protocols.	Developing new inventory protocols.
108-88-3	Toluene	Substituted materials	Test vendor formulations	Test vendor formulations
108-88-3	Toluene	Modified design or	Feasibility trial of measure	Feasibility trial of measure

CAS RN	Substance Name	Activity	Public summary of the description of the steps	Public summary of the comparison of the steps
		composition		
108-88-3	Toluene	Training related to toxics substance reduction	Studying current auditing procedures.	Studying current auditing procedures.
108-88-3	Toluene	Other	Developing spray training curriculum.	Developing spray training curriculum.
1330-20-7	Xylene (all isomers)	Modified equipment, layout or piping	Trial of measure under way.	Trial of measure under way.
1330-20-7	Xylene (all isomers)	Instituted improved purchasing procedures	Developing new inventory protocols.	Developing new inventory protocols.
1330-20-7	Xylene (all isomers)	Substituted materials	Test new vendor formulation.	Test new vendor formulation.
1330-20-7	Xylene (all isomers)	Other	Trial of measure under way.	Trial of measure under way.
1330-20-7	Xylene (all isomers)	Other	Studying current auditing procedures.	Studying current auditing procedures.
1330-20-7	Xylene (all isomers)	Training related to toxics substance reduction	Developing new spray training curriculum.	Developing new spray training curriculum.

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

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
NA - M09	PM10 - Particulate Matter <= 10 Microns	Other	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	0.194 tonnes

CAS RN

Substance Name

Activity

Reductions due to Options Implemented

Quantity

NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Other	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	0.006 tonnes
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Progress on TRA Plan - Reductions due to Options Implemented - Improved inventory management or purchasing techniques

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
110-82-7	Cyclohexane	Other	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	0.23 tonnes

110-82-7	Cyclohexane	Other	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	0.85 tonnes
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110-82-7	Cyclohexane	Other	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	0.23 tonnes
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141-78-6	Ethyl acetate	Other	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	0.18 tonnes
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141-78-6	Ethyl acetate	Other	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	1.076 tonnes
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141-78-6	Ethyl acetate	Other	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	0.431 tonnes
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NA - 31	Heptane (all isomers)	Other	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	0.072 tonnes
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NA - 31	Heptane (all isomers)	Other	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	0.431 tonnes
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67-56-1	Methanol	Other	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	0.009 tonnes
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67-56-1	Methanol	Other	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	0.054 tonnes
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Techniques CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
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Progress on TRA Plan - Reductions due to Options Implemented - Materials or feedstock substitution

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
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Progress on TRA Plan - Reductions due to Options Implemented - Product design or reformulation

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
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67-56-1	Methanol	Changed product specifications	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	0.14 tonnes
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NA - M09	PM10 - Particulate Matter <= 10 Microns	Modified design or composition	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	0.02 tonnes
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NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Modified design or composition	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	0.02 tonnes
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CAS RN Substance Name Activity Reductions due to Options Implemented Quantity

Progress on TRA Plan - Reductions due to Options Implemented - Good operator practice or training

CAS RN Substance Name Activity Reductions due to Options Implemented Quantity

141-78-6	Ethyl acetate	Other	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	0.431 tonnes
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CAS RN

Substance Name Activity

Reductions due to Options Implemented

Quantity

Progress on TRA Plan - Additional Actions

CAS RN	Substance Name
110-82-7	Cyclohexane
141-78-6	Ethyl acetate
NA - 31	Heptane (all isomers)
67-56-1	Methanol
NA - M09	PM10 - Particulate Matter <= 10 Microns
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns
108-88-3	Toluene
1330-20-7	Xylene (all isomers)

Provide a public summary of the description of the additional action taken

Progress on TRA Plan - Reductions due to additional actions taken

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
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CAS RN

Substance Name

Reductions due to additional actions taken

Quantity

Progress on TRA Plan - Amendments

CAS RN Substance Name

110-82-7	Cyclohexane
141-78-6	Ethyl acetate
NA - 31	Heptane (all isomers)
67-56-1	Methanol
NA - M09	PM10 - Particulate Matter <= 10 Microns
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns
108-88-3	Toluene
1330-20-7	Xylene (all isomers)

Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period

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

Toyota Boshoku Canada Inc.

Certifying Official (or authorized delegate)

Norimichi Adachi

Report Submitted by

Jason Dittburner

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 29/12/2015, I, Norimichi Adachi, 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
110-82-7	Cyclohexane
141-78-6	Ethyl acetate
NA - 31	Heptane (all isomers)
67-56-1	Methanol
NA - M09	PM10 - Particulate Matter <= 10 Microns
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns

Back

Validate

Save/Continue

NA - M16 Volatile Organic Compounds (VOCs)

1330-20-7 Xylene (all isomers)

Company Name

Toyota Boshoku Canada Inc.

Highest Ranking Employee

Norimichi Adachi

Report Submitted by

Jason Dittburner

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
2014	29/12/2015	Toyota Boshoku Canada	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: 3.11.4



