



# National Pollutant Release Inventory (NPRI) and



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## Report Preview

### Report Details

Report Year	2016
Report Type:	NPRI,ON MOE TRA
Report Status:	Submitted
Modified Date/Time:	16/05/2017 8:31 AM

### Company and Facility Details

Company Name:	Linex Manufacturing
Business Number:	103333662
Mailing Address:	Delivery Mode: GeneralDelivery Address Line 1: 355 Massey Road City, Province/Territory, Postal Code: Guelph Ontario N1K1B2 Country: Canada
Facility Name:	Linex Manufacturing
NAICS Code:	336110
NPRI ID:	7125
Physical Address:	Address Line 1: 355 Massey Road City, Province/Territory, Postal Code: Guelph Ontario N1K1B2 Country: Canada Latitude: 43.53790 Longitude: -80.30750 UTM Zone: 17 UTM Easting: 555924 UTM Northing: 4820612

### Parent Companies

Company Name:	Linamar Corporation
Business Number:	103333662
Mailing Address:	Delivery Mode: GeneralDelivery Address Line 1: 287 Speedvale Avenue West City, Province/Territory, Postal Code: Guelph Ontario N1H1C5 Country: Canada

### Permits

Number or Permit Number:	ON0607801
Government Department, Agency, or Program Name:	Ontario MOE - Hazardous Waste Generator Number
Number or Permit Number:	7648-5EZLBH

## Contacts Details

Contact Type	Technical Contact, Person who prepared the report
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Name:	Barbara Herron
Position:	Enviromental Coordinator
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Email:	barb.herron@linamar.com
Mailing Address:	Delivery Mode: GeneralDelivery Address Line 1: 355 Massey Road City, Province/Territory, Postal Code: Guelph Ontario N1K1B2 Country: Canada

## General Information

Number of employees:	367
Activities for Which the 20,000-Hour Employee Threshold Does Not Apply:	None of the above
Activities Relevant to Reporting Dioxins, Furans and Hexacholorobenzene:	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:	Yes
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):	No

## Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
NA - 04	Chromium (and its compounds)	N/A	N/A	N/A	16.1700	tonnes

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
NA - 06	Copper (and its compounds)	N/A	N/A	N/A	34.6600	tonnes
NA - 09	Manganese (and its compounds)	N/A	N/A	N/A	18.6600	tonnes
NA - 11	Nickel (and its compounds)	N/A	N/A	N/A	28.3700	tonnes
NA - 14	Zinc (and its compounds)	N/A	N/A	N/A	19.9000	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
NA - 04	Chromium (and its compounds)	Yes	Yes		No
NA - 06	Copper (and its compounds)	Yes	Yes		No
NA - 09	Manganese (and its compounds)	Yes	Yes		No
NA - 11	Nickel (and its compounds)	Yes	Yes		No
NA - 14	Zinc (and its compounds)	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
NA - 04	Chromium (and its compounds)	No	No	No
NA - 06	Copper (and its compounds)	No	No	No
NA - 09	Manganese (and its compounds)	No	No	No
NA - 11	Nickel (and its compounds)	No	No	No
NA - 14	Zinc (and its compounds)	No	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
NA - 04	Chromium (and its compounds)	No	No	Yes
NA - 06	Copper (and its compounds)	No	No	Yes
NA - 09	Manganese (and its compounds)	No	No	Yes
NA - 11	Nickel (and its compounds)	No	No	Yes
NA - 14	Zinc (and its compounds)	No	No	Yes

## General Information about the Substance - Nature of Activities

CAS RN	Substance Name	Manufacture the Substance	Process the Substance	Otherwise Use of the Substance
NA - 04	Chromium (and its compounds)	For on-site use/processing	As a formulation component	
NA - 06	Copper (and its compounds)	For on-site use/processing	As a formulation component	
NA - 09	Manganese (and its compounds)	For on-site use/processing	As a formulation component	
NA - 11	Nickel (and its compounds)	For on-site use/processing	As a formulation component	
NA - 14	Zinc (and its compounds)	For on-site use/processing	As a formulation component	

## TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained	Quantity	Use ranges for public reporting
NA - 04	Chromium (and its compounds)	Use	80.05 tonnes	No
NA - 04	Chromium (and its compounds)	Creation	0 tonnes	No
NA - 04	Chromium (and its compounds)	Contained	63.87 tonnes	No
NA - 06	Copper (and its compounds)	Use	222.71 tonnes	No
NA - 06	Copper (and its compounds)	Creation	0 tonnes	No
NA - 06	Copper (and its compounds)	Contained	188.06 tonnes	No

CAS RN	Substance Name	Use, Creation, Contained	Quantity	Use ranges for public reporting
NA - 09	Manganese (and its compounds)	Use	95.94 tonnes	No
NA - 09	Manganese (and its compounds)	Creation	0 tonnes	No
NA - 09	Manganese (and its compounds)	Contained	77.28 tonnes	No
NA - 11	Nickel (and its compounds)	Use	147.12 tonnes	No
NA - 11	Nickel (and its compounds)	Creation	0 tonnes	No
NA - 11	Nickel (and its compounds)	Contained	118.75 tonnes	No
NA - 14	Zinc (and its compounds)	Use	143.38 tonnes	No
NA - 14	Zinc (and its compounds)	Creation	0 tonnes	No
NA - 14	Zinc (and its compounds)	Contained	123.48 tonnes	No

## 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
NA - 04	Chromium (and its compounds)					No
NA - 06	Copper (and its compounds)					No
NA - 09	Manganese (and its compounds)					No
NA - 11	Nickel (and its compounds)					No
NA - 14	Zinc (and its compounds)					No

## On-site Releases - Total

### 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)
NA - 04	Chromium (and its compounds)	No significant change (i.e. < 10%) or no change	
NA - 06	Copper (and its compounds)	No significant change (i.e. < 10%) or no change	
NA - 09	Manganese (and its compounds)	No significant change (i.e. < 10%) or no change	
NA - 11	Nickel (and its compounds)	No significant change (i.e. < 10%) or no change	
NA - 14	Zinc (and its compounds)	No significant change (i.e. < 10%) or no change	

### Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities Disposed from Previous Year	Comments (Disposals)
NA - 04	Chromium (and its compounds)		No significant change (i.e. < 10%) or no change	
NA - 06	Copper (and its compounds)		No significant change (i.e. < 10%) or no change	
NA - 09	Manganese (and its compounds)		No significant change (i.e. < 10%) or no change	
NA - 11	Nickel (and its compounds)		No significant change (i.e. < 10%) or no change	
NA - 14	Zinc (and its compounds)		No significant change (i.e. < 10%) or no change	

### Recycling - Off-site Transfers for Recycling

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
NA - 04	Chromium (and its compounds)	Recovery of Metals and Metal Compounds	C - Mass Balance		16.17 tonnes
NA - 06	Copper (and its compounds)	Recovery of Metals and Metal Compounds	C - Mass Balance		34.66 tonnes
NA - 09	Manganese (and its compounds)	Recovery of Metals and Metal Compounds	C - Mass Balance		18.66 tonnes
NA - 11	Nickel (and its compounds)	Recovery of Metals and Metal Compounds	C - Mass Balance		28.37 tonnes
NA - 14	Zinc (and its compounds)	Recovery of Metals and Metal Compounds	C - Mass Balance		19.90 tonnes

### Recycling - Off-site Transfers for Recycling - Total

CAS RN	Substance Name	Total - Off-site Transfers for Recycling
NA - 04	Chromium (and its compounds)	16.17 tonnes
NA - 06	Copper (and its compounds)	34.66 tonnes

CAS RN	Substance Name	Total - Off-site Transfers for Recycling
NA - 09	Manganese (and its compounds)	18.66 tonnes
NA - 11	Nickel (and its compounds)	28.37 tonnes
NA - 14	Zinc (and its compounds)	19.90 tonnes

## Recycling - Off-site Transfers for Recycling - By Facility

CAS RN	Substance Name	Category	Off-site Name	Off-site Address	Quantity
NA - 04	Chromium (and its compounds)	Recovery of Metals and Metal Compounds	Gerdau Ameristeel Metals Recycling	200 Dawson Rd., Guelph, ON, Canada	16.17 tonnes
NA - 06	Copper (and its compounds)	Recovery of Metals and Metal Compounds	Gerdau Ameristeel Metals Recycling	200 Dawson Rd., Guelph, ON, Canada	34.66 tonnes
NA - 09	Manganese (and its compounds)	Recovery of Metals and Metal Compounds	Gerdau Ameristeel Metals Recycling	200 Dawson Rd., Guelph, ON, Canada	18.66 tonnes
NA - 11	Nickel (and its compounds)	Recovery of Metals and Metal Compounds	Gerdau Ameristeel Metals Recycling	200 Dawson Rd., Guelph, ON, Canada	28.37 tonnes
NA - 14	Zinc (and its compounds)	Recovery of Metals and Metal Compounds	Gerdau Ameristeel Metals Recycling	200 Dawson Rd., Guelph, ON, Canada	19.90 tonnes

## Recycling - Off-site Transfers for Recycling - Dioxins and Furans Breakdown List By Facility

Category	CAS RN	Substance Name	Off-site Name	Quantity
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## Recycling - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Recycled	Reasons for Changes in Quantities Recycled from Previous Year	Comments
NA - 04	Chromium (and its compounds)	Production Residues	Changes in estimation methods	
NA - 06	Copper (and its compounds)	Production Residues	Changes in estimation methods	change in raw material composition
NA - 09	Manganese (and its compounds)	Production Residues	No significant change (i.e. < 10%) or no change	
NA - 11	Nickel (and its compounds)	Production Residues	No significant change (i.e. < 10%) or no change	
NA - 14	Zinc (and its compounds)	Production Residues	Changes in production levels Changes in estimation methods	Change in raw material composition

## 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
NA - 04	Chromium (and its compounds)	No	Enters the facility (Use)	80.05 tonnes	82.47 tonnes	2015	-2.42	-2.93
NA - 04	Chromium (and its compounds)	No	Creation	0 tonnes	0 tonnes	2015	0	
NA - 04	Chromium (and its compounds)	No	Contained	63.87 tonnes	61.96 tonnes	2015	1.91	3.08
NA - 06	Copper (and its compounds)	No	Enters the facility (Use)	222.71 tonnes	178.97 tonnes	2015	43.74	24.44
NA - 06	Copper (and its compounds)	No	Creation	0 tonnes	0 tonnes	2015	0	
NA - 06	Copper (and its compounds)	No	Contained	188.06 tonnes	148.40 tonnes	2015	39.66	26.73
NA - 09	Manganese (and its compounds)	No	Enters the facility (Use)	95.94 tonnes	90.36 tonnes	2015	5.58	6.18
NA - 09	Manganese (and its compounds)	No	Creation	0 tonnes	0.00 tonnes	2015	0.00	
NA - 09	Manganese (and its compounds)	No	Contained	77.28 tonnes	70.13 tonnes	2015	7.15	10.20
NA - 11	Nickel (and its compounds)	No	Enters the facility (Use)	147.12 tonnes	110.53 tonnes	2015	36.59	33.10
NA - 11	Nickel (and its compounds)	No	Creation	0 tonnes	0.00 tonnes	2015	0.00	
NA - 11	Nickel (and its compounds)	No	Contained	118.75 tonnes	84.54 tonnes	2015	34.21	40.47
NA - 14	Zinc (and its compounds)	No	Enters the facility (Use)	143.38 tonnes	65.18 tonnes	2015	78.20	119.98
NA - 14	Zinc (and its compounds)	No	Creation	0 tonnes	0.00 tonnes	2015	0.00	
NA - 14	Zinc (and its compounds)	No	Contained	123.48 tonnes	58.51 tonnes	2015	64.97	111.04

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - 04	Chromium (and its compounds)	No reasons - quantities approximately the same	
NA - 06	Copper (and its compounds)	Increase in production levels Change in quantification methodology Other	Changes in raw material composition
NA - 09	Manganese (and its compounds)	No reasons - quantities approximately the same	
NA - 11	Nickel (and its compounds)	Increase in production levels Change in quantification methodology Other	Change in raw material composition
NA - 14	Zinc (and its compounds)	Increase in production levels Change in quantification methodology Other	change in raw material composition

## Comparison Report - Transfers off-site for Recycling

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 04	Chromium (and its compounds)	No	Total off-site Transfers for Recycling	16.17 tonnes	20.51 tonnes	2015	-4.34	-21.16
NA - 06	Copper (and its compounds)	No	Total off-site Transfers for Recycling	34.66 tonnes	30.57 tonnes	2015	4.09	13.38
NA - 09	Manganese (and its compounds)	No	Total off-site Transfers for Recycling	18.66 tonnes	20.22 tonnes	2015	-1.56	-7.72
NA - 11	Nickel (and its compounds)	No	Total off-site Transfers for Recycling	28.37 tonnes	25.99 tonnes	2015	2.38	9.16
NA - 14	Zinc (and its compounds)	No	Total off-site Transfers for Recycling	19.90 tonnes	6.67 tonnes	2015	13.23	198.35

## Comparison Report - Transfers off-site for Recycling - Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - 04	Chromium (and its compounds)	Change in quantification methodology	
NA - 06	Copper (and its compounds)	Increase in production levels Change in quantification methodology Other	Changes in raw material composition
NA - 09	Manganese (and its compounds)	No reasons - quantities approximately the same	
NA - 11	Nickel (and its compounds)	No reasons - quantities approximately the same Increase in production levels Change in quantification methodology Other	Change in raw material composition
NA - 14	Zinc (and its compounds)	Increase in production levels Change in quantification methodology Other	change in raw material composition

## Pollution Prevention

Does the facility have a documented pollution prevention plan?

No

Did the facility complete any pollution prevention activities in the current NPRI reporting year

No

## Progress on TRA Plan - Objectives

CAS RN	Substance Name	Objectives
NA - 04	Chromium (and its compounds)	The objectives of this plan is to reduce the use and creation of the prescribed toxic substance listed above using methods which are technically and economically feasible while providing a benefit to the environment. The goal is to reduce the use and recycling of chromium by 5% within 2-3 years of completing this plan.
NA - 06	Copper (and its compounds)	The objectives of this plan is to reduce the use and creation of the prescribed toxic substance listed above using methods which are technically and economically feasible while providing a benefit to the environment. The goal is to reduce the use and recycling of copper by 5% within 2-3 years of completing this plan.
NA - 09	Manganese (and its compounds)	The objectives of this plan is to reduce the use and creation of the prescribed toxic substance listed above using methods which are technically and economically feasible while providing a benefit to the environment. The goal is to reduce the use and recycling of manganese by 5% within 2-3 years of completing this plan.
NA - 11	Nickel (and its compounds)	The objectives of this plan is to reduce the use and creation of the prescribed toxic substance listed above using methods which are technically and economically feasible while providing a benefit to the environment. The goal is to reduce the use and recycling of nickel by 5% within 2-3 years of completing this plan.
NA - 14	Zinc (and its compounds)	The objectives of this plan is to reduce the use and creation of the prescribed toxic substance listed above using methods which are technically and economically feasible while providing a benefit to the environment. The goal is to reduce the use and recycling of zinc by 5% within 2-3 years of completing this plan.

CAS RN	Substance Name	Objectives
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### Progress on TRA Plan - Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
NA - 04	Chromium (and its compounds)	3670.35 kg	3	Reducing machining stock varies from part to part with an estimated range of 1-3.5% reduction for chromium. This would equate to a recycling reduction range of 230.14-805.49 kg. Process improvement/modification to reduce scrap to corporate targets would result in an estimated 1% reduction of recycled material. This would reduce the recycled quantities of chromium by 230.14 kg. Process improvement/modification at the suppliers to achieve corporate targets would result in a reduction in the use of raw material and an estimated 1.2% reduction in the quantity of material recycled. This would reduce the quantity recycled for chromium by 880.88 kg. Implementing an ERP system to manage inventory would result in an estimated 3-5% reduction in the use of raw material at the facility. This would result in the reduction in use of 2202.21-3670.35 kg of chromium.
NA - 06	Copper (and its compounds)	8795.72 kg	3	Linex Manufacturing estimates the reduction in the use of this toxic substance to be approximately 3-5% within 2-3 years of preparing this plan. This would result in the reduction in use of 5277.43-8795.715 kg of copper.
NA - 09	Manganese (and its compounds)	2713.30 kg	3	
NA - 11	Nickel (and its compounds)	3747.57 kg	3	<ul style="list-style-type: none"> <li>Reduce machining stock on raw material</li> <li>Improve machining processes to reduce scrap</li> <li>Improve supplier processes to reduce returned material</li> <li>Implement ERP system to improve inventory management</li> </ul>
NA - 14	Zinc (and its compounds)	2687.94 kg	3	Linex Manufacturing estimates the reduction in the use of this toxic substance to be approximately 3-5% within 2-3 years of preparing this plan. This would result in the reduction in use of 1612.76-2687.94 kg of zinc.

### Progress on TRA Plan - Description

CAS RN	Substance Name	Quantity	Years	Description of Target
NA - 04	Chromium (and its compounds)	No quantity target	No timeline target	
NA - 06	Copper (and its compounds)	No quantity target	No timeline target	
NA - 09	Manganese (and its compounds)	No quantity target	No timeline target	
NA - 11	Nickel (and its compounds)	No quantity target	No timeline target	
NA - 14	Zinc (and its compounds)	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
NA - 04	Chromium (and its compounds)	Other	Scrap Reduction Plan	Reported summary from Toxic Reduction Plan	Scrap reduction plan is implemented and continuously being monitored	Reported summary from Toxic Reduction Plan
NA - 06	Copper (and its compounds)	Instituted improved purchasing procedures	Inventory Reduction Plan and Scrap Reduction Plan	Reported summary from Toxic Reduction Plan	Inventory reduction plan & scrap reduction plan is implemented and continuously being monitored	Reported summary from Toxic Reduction Plan
NA - 06	Copper (and its compounds)	Other	Scrap Reduction Plan	Reported summary from Toxic Reduction Plan	Scrap reduction plan is implemented and continuously being monitored	Reported summary from Toxic Reduction Plan
NA - 09	Manganese (and its compounds)	Instituted improved purchasing procedures	Inventory Reduction Target and Scrap Reduction Plan	Reported summary from Toxic Reduction Plan	Inventory reduction target and scrap reduction plan are implemented and continuously being monitored	Reported summary from Toxic Reduction Plan
NA - 09	Manganese (and its compounds)	Other	Scrap Reduction Plan	Reported summary from Toxic Reduction Plan	Scrap reduction plan is implemented and continuously being monitored	Reported summary from Toxic Reduction Plan
NA - 11	Nickel (and its compounds)	Instituted improved purchasing procedures	Inventory Reduction Target and Scrap Reduction Plan	Reported summary from Toxic Reduction Plan	Inventory reduction target and scrap reduction plan are implemented and continuously being monitored	Reported summary from Toxic Reduction Plan
NA - 11	Nickel (and its compounds)	Other	Scrap Reduction Plan	Reported summary from Toxic Reduction Plan	Scrap reduction plan is implemented and continuously being monitored	Reported summary from Toxic Reduction Plan
NA - 14	Zinc (and its compounds)	Instituted improved purchasing procedures	Inventory reduction target in place & scrap reduction plan	Reported summary from Toxic Reduction Plan	Inventory reduction target and scrap reduction plan are implemented and continuously being monitored	Reported summary from Toxic Reduction Plan
NA - 14	Zinc (and its compounds)	Other	Scrap reduction plan	Reported summary from Toxic Reduction Plan	Scrap reduction plan is implemented and continuously being monitored	Reported summary from Toxic Reduction Plan







CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
NA - 11	Nickel (and its compounds)	Other	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 11	Nickel (and its compounds)	Other	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 11	Nickel (and its compounds)	Other	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 11	Nickel (and its compounds)	Other	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 11	Nickel (and its compounds)	Other	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
NA - 11	Nickel (and its compounds)	Other	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 11	Nickel (and its compounds)	Other	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 11	Nickel (and its compounds)	Other	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Other	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Other	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Other	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Other	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Other	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Other	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
NA - 14	Zinc (and its compounds)	Other	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Other	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Other	The amount of reduction in the substance <b>recycled off-site</b> 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
NA - 04	Chromium (and its compounds)	No		
NA - 06	Copper (and its compounds)	No		
NA - 09	Manganese (and its compounds)	No		
NA - 11	Nickel (and its compounds)	No		
NA - 14	Zinc (and its compounds)	No		

### Progress on TRA Plan - Reductions due to additional actions taken

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
NA - 04	Chromium (and its compounds)	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 04	Chromium (and its compounds)	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 04	Chromium (and its compounds)	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the additional actions.	
NA - 04	Chromium (and its compounds)	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 04	Chromium (and its compounds)	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 04	Chromium (and its compounds)	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to additional actions.	
NA - 04	Chromium (and its compounds)	The amount of reduction in the substance <b>disposed on-site</b> (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
NA - 14	Zinc (and its compounds)	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in the substance <b>recycled off-site</b> 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
NA - 04	Chromium (and its compounds)	No		
NA - 06	Copper (and its compounds)	No		
NA - 09	Manganese (and its compounds)	No		
NA - 11	Nickel (and its compounds)	No		
NA - 14	Zinc (and its compounds)	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

Linex Manufacturing

Certifying Official (or authorized delegate)

Tim Feil

Report Submitted by

Barbara Herron

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 16/05/2017, I, Barbara Herron, 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
NA - 04	Chromium (and its compounds)
NA - 06	Copper (and its compounds)
NA - 09	Manganese (and its compounds)
NA - 11	Nickel (and its compounds)
NA - 14	Zinc (and its compounds)

Company Name

Linex Manufacturing

Highest Ranking Employee

Barbara Herron

Report Submitted by

Barbara Herron

Website address

Linamar Social Responsibility

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

## Submitted Report

Period	Submission Date	Facility Name	Province	City	Programs
2016	16/05/2017	Linex Manufacturing	Ontario	Guelph	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: 3.11.3



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