



# National Pollutant Release Inventory (NPRI) and Partners



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## Report Preview

### Report Details

Report Year	2019
Report Type:	NPRI,ON MECP TRA
Report Status:	Submitted
Modified Date/Time:	2020-07-31 9:08 AM

### Company and Facility Details

Company Name:	Linex Manufacturing
Business Number:	103333662
Mailing Address:	Delivery Mode: GeneralDelivery Address Line 1: 355 Massey Road City: Guelph Province/Territory: Ontario Postal Code: N1K 1B2 Country: Canada
Facility Name:	Linex Manufacturing
NAICS Code:	336110
NPRI ID:	7125
Portable:	No
Physical Address:	Address Line 1: 355 Massey Road City: Guelph Province/Territory: Ontario Postal Code: N1K 1B2 Country: Canada  Latitude: 43.5366 Longitude: -80.3085

### Parent Companies

Company Name:	Linamar Corporation
Business Number:	103333662
DUNS Number	206993862
Percentage owned:	100.00
Civic Address:	Address Line 1: 287 Speedvale Avenue West City: Guelph Province/Territory: Ontario Postal Code: N1H 1C5

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

Government Department, Agency, or Program Name:

Ontario MOE-Certificate of Apporval

## Contacts Details

Contact Type

Technical Contact

Name:

Roma Rana

Position:

EHS Coordinator

Telephone:

5193415996

Extension

39255

Email:

Roma.Rana@Linamar.com

Contact Type

Certifying Official, Highest Ranking Employee

Name:

William Tucker

Position:

Operations Manager

Telephone:

5198370880

Extension

31609

Email:

William.Tucker@Linamar.com

Contact Type

Person who prepared the report

Name:

Jenna Devereaux

Position:

Environmental Engineer

Telephone:

2263260115

Extension

37676

Email:

Jenna.Devereaux@Linamar.com

Mailing Address:

Delivery Mode: GeneralDelivery  
Address Line 1: 545 Elmira Road  
City: Guelph  
Province/Territory: Ontario  
Postal Code: N1K 1C2  
Country: Canada

## General Information

Number of employees:

285

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

Does this facility release less than the reporting threshold for each Part 4 substance AND have one or more light or medium crude oil batteries with a total oil throughput for the battery components of the facility of  $\geq 1,900$  m<sup>3</sup> per year?

No

Did the facility operate one or more electricity generation units that had a capacity of 25 MW or more and that distributed or sold to the grid 33% or more of its potential electrical output in the calendar year?

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

Does this facility solely consist of compression equipment in the oil and gas extraction sector?

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	12.400000	tonnes
NA - 06	Copper (and its compounds)	N/A	N/A	N/A	21.270000	tonnes
NA - 09	Manganese (and its compounds)	N/A	N/A	N/A	16.220000	tonnes
NA - 11	Nickel (and its compounds)	N/A	N/A	N/A	18.140000	tonnes
NA - 14	Zinc (and its compounds)	N/A	N/A	N/A	6.930000	tonnes

## Applicable Programs

CAS RN	Substance Name	NPRI	ON MECP TRA	First report for this substance to the ON MECP TRA
NA - 04	Chromium (and its compounds)	No	No	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

## TRA Exit Record

CAS RN	Substance Name	Circumstance(s) that apply	Describe the circumstances that lead to the criteria no longer being met	Describe the information and any quantifications relied upon for making the determination
NA - 04	Chromium (and its compounds)	The substance did not meet the criteria to provide information to NPRI	Facility decreased production in the machining of raw castings which contain high concentrations of chromium (and its compounds).	Mass balance was used as the quantification methodology.

## 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

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 - 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 an article component	
NA - 06	Copper (and its compounds)	For on-site use/processing	As an article component	
NA - 09	Manganese (and its compounds)	For on-site use/processing	As an article component	
NA - 11	Nickel (and its compounds)	For on-site use/processing	As an article component	
NA - 14	Zinc (and its compounds)	For on-site use/processing	As an article component	

### TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
NA - 06	Copper (and its compounds)	Use	85.94 tonnes	No
NA - 06	Copper (and its compounds)	Creation	0 tonnes	No
NA - 06	Copper (and its compounds)	Contained in Product	64.68 tonnes	No
NA - 09	Manganese (and its compounds)	Use	67.39 tonnes	No
NA - 09	Manganese (and its compounds)	Creation	0 tonnes	No
NA - 09	Manganese (and its compounds)	Contained in Product	51.18 tonnes	No
NA - 11	Nickel (and its compounds)	Use	73.50 tonnes	No
NA - 11	Nickel (and its compounds)	Creation	0 tonnes	No
NA - 11	Nickel (and its compounds)	Contained in Product	55.35 tonnes	No
NA - 14	Zinc (and its compounds)	Use	26.71 tonnes	No
NA - 14	Zinc (and its compounds)	Creation	0 tonnes	No
NA - 14	Zinc (and its compounds)	Contained in Product	19.78 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	Description of how an incident(s) affected quantifications	Significant Process Change	Reason for the significant process change
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 - Reasons for Changes in Quantities Released from Previous Year

CAS RN	Substance Name	Reasons for Changes in Quantities from Previous Year	Comments
NA - 04	Chromium (and its compounds)	Other (specify in comment field)	Chromium (and its compounds) is not released on-site.
NA - 06	Copper (and its compounds)	Other (specify in comment field)	Copper (and it compounds) is not released on-site.
NA - 09	Manganese (and its compounds)	Other (specify in comment field)	Manganese (and its compounds) is not released on-site.
NA - 11	Nickel (and its compounds)	Other (specify in comment field)	Nickel (and its compounds) is not released on-site.
NA - 14	Zinc (and its compounds)	Other (specify in comment field)	Zinc (and its compounds) is not released on-site.

## Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities from Previous Year	Comments
NA - 04	Chromium (and its compounds)		Other (specify in comment field)	Chromium (and its compounds) is not disposed of (on-site or off-site), or transferred for treatment prior to final disposal.
NA - 06	Copper (and its compounds)		Other (specify in comment field)	Copper (and its compounds) is not disposed of (on-site or off-site), or transferred for treatment prior to final disposal.
NA - 09	Manganese (and its compounds)		Other (specify in comment field)	Manganese (and its compounds) is not disposed of (on-site or off-site), or transferred for treatment prior to final disposal.
NA - 11	Nickel (and its compounds)		Other (specify in comment field)	Nickel (and its compounds) is not disposed of (on-site or off-site), or transferred for treatment prior to final disposal.
NA - 14	Zinc (and its compounds)		Other (specify in comment field)	Zinc (and its compounds) is not disposed of (on-site or off-site), or transferred for treatment prior to final disposal.

## 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		12.40 tonnes
NA - 06	Copper (and its compounds)	Recovery of Metals and Metal Compounds	C - Mass Balance		21.27 tonnes
NA - 09	Manganese (and its compounds)	Recovery of Metals and Metal Compounds	C - Mass Balance		16.22 tonnes
NA - 11	Nickel (and its compounds)	Recovery of Metals and Metal Compounds	C - Mass Balance		18.14 tonnes
NA - 14	Zinc (and its compounds)	Recovery of Metals and Metal Compounds	C - Mass Balance		6.93 tonnes

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

CAS RN	Substance Name	Total - Off-site Transfers for Recycling
NA - 04	Chromium (and its compounds)	12.40 tonnes
NA - 06	Copper (and its compounds)	21.27 tonnes
NA - 09	Manganese (and its compounds)	16.22 tonnes
NA - 11	Nickel (and its compounds)	18.14 tonnes
NA - 14	Zinc (and its compounds)	6.93 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	12.40 tonnes
NA - 06	Copper (and its compounds)	Recovery of Metals and Metal Compounds	Gerdau Ameristeel Metals Recycling	200 Dawson Rd., Guelph, ON, Canada	21.27 tonnes
NA - 09	Manganese (and its compounds)	Recovery of Metals and Metal Compounds	Gerdau Ameristeel Metals Recycling	200 Dawson Rd., Guelph, ON, Canada	16.22 tonnes
NA - 11	Nickel (and its compounds)	Recovery of Metals and Metal Compounds	Gerdau Ameristeel Metals Recycling	200 Dawson Rd., Guelph, ON, Canada	18.14 tonnes
NA - 14	Zinc (and its compounds)	Recovery of Metals and Metal Compounds	Gerdau Ameristeel Metals Recycling	200 Dawson Rd., Guelph, ON, Canada	6.93 tonnes

## 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 Off-specification products Unusable parts or discards	Decrease in production levels	

CAS RN	Substance Name	Reasons Why Substance Was Recycled	Reasons for Changes in Quantities Recycled from Previous Year	Comments
NA - 06	Copper (and its compounds)	Production Residues Off-specification products Unusable parts or discards	Decrease in production levels	
NA - 09	Manganese (and its compounds)	Production Residues Off-specification products Unusable parts or discards	Decrease in production levels	
NA - 11	Nickel (and its compounds)	Production Residues Off-specification products Unusable parts or discards	Decrease in production levels	
NA - 14	Zinc (and its compounds)	Production Residues Off-specification products Unusable parts or discards	Decrease in production levels	

### 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 - 06	Copper (and its compounds)	No	Enters the facility (Use)	85.94 tonnes	204.00 tonnes	2018	-118.06	-57.87
NA - 06	Copper (and its compounds)	No	Creation	0 tonnes	0 tonnes	2018	0	
NA - 06	Copper (and its compounds)	No	Contained in Product	64.68 tonnes	171.23 tonnes	2018	-106.55	-62.23
NA - 09	Manganese (and its compounds)	No	Enters the facility (Use)	67.39 tonnes	160.35 tonnes	2018	-92.96	-57.97
NA - 09	Manganese (and its compounds)	No	Creation	0 tonnes	0 tonnes	2018	0	
NA - 09	Manganese (and its compounds)	No	Contained in Product	51.18 tonnes	132.91 tonnes	2018	-81.73	-61.49
NA - 11	Nickel (and its compounds)	No	Enters the facility (Use)	73.50 tonnes	187.63 tonnes	2018	-114.13	-60.83
NA - 11	Nickel (and its compounds)	No	Creation	0 tonnes	0 tonnes	2018	0	
NA - 11	Nickel (and its compounds)	No	Contained in Product	55.35 tonnes	152.05 tonnes	2018	-96.70	-63.60
NA - 14	Zinc (and its compounds)	No	Enters the facility (Use)	26.71 tonnes	59.64 tonnes	2018	-32.93	-55.21
NA - 14	Zinc (and its compounds)	No	Creation	0 tonnes	0 tonnes	2018	0	
NA - 14	Zinc (and its compounds)	No	Contained in Product	19.78 tonnes	50.19 tonnes	2018	-30.41	-60.59

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - 06	Copper (and its compounds)	Decrease in production levels	
NA - 09	Manganese (and its compounds)	Decrease in production levels	
NA - 11	Nickel (and its compounds)	Decrease in production levels	
NA - 14	Zinc (and its compounds)	Decrease in production levels	

### 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 - 06	Copper (and its compounds)	No	Total off-site Transfers for Recycling	21.27 tonnes	32.76 tonnes	2018	-11.49	-35.07
NA - 09	Manganese (and its compounds)	No	Total off-site Transfers for Recycling	16.22 tonnes	27.44 tonnes	2018	-11.22	-40.89
NA - 11	Nickel (and its compounds)	No	Total off-site Transfers for Recycling	18.14 tonnes	35.58 tonnes	2018	-17.44	-49.02
NA - 14	Zinc (and its compounds)	No	Total off-site Transfers for Recycling	6.93 tonnes	9.46 tonnes	2018	-2.53	-26.74

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - 06	Copper (and its compounds)	Decrease in production levels	

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - 09	Manganese (and its compounds)	Decrease in production levels	
NA - 11	Nickel (and its compounds)	Decrease in production levels	
NA - 14	Zinc (and its compounds)	Decrease in production levels	

## 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

If no, please select all applicable reasons from the list below:

Other (please specify): Copper, manganese, nickel and zinc are article components of the raw materials and a by-product of the finished goods from machining operations. All scrap metal generated as part of our operations is recycled. Therefore, no pollution prevention activities are applicable at this time.

## Progress on TRA Plan - Objectives

CAS RN	Substance Name	Objectives
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.

## Progress on TRA Plan - Use Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
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 - Creation Targets

CAS RN	Substance Name	Quantity	Years	Description of 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 - 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

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 - 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 crap Reduction Plan	Reported summary from Toxic Reduction Plan	Inventory reduction plan 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 plan 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 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 - 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	Will the timelines in the current version of the plan will be met	Comments:
NA - 06	Copper (and its compounds)	Instituted improved purchasing procedures	Yes	
NA - 06	Copper (and its compounds)	Other	Yes	
NA - 09	Manganese (and its compounds)	Instituted improved purchasing procedures	Yes	
NA - 09	Manganese (and its compounds)	Other	Yes	
NA - 11	Nickel (and its compounds)	Instituted improved purchasing procedures	Yes	
NA - 11	Nickel (and its compounds)	Other	Yes	
NA - 14	Zinc (and its compounds)	Instituted improved purchasing procedures	Yes	
NA - 14	Zinc (and its compounds)	Other	Yes	

### 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
NA - 06	Copper (and its compounds)	Instituted improved purchasing procedures	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 - 06	Copper (and its compounds)	Instituted improved purchasing procedures	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 - 06	Copper (and its compounds)	Instituted improved purchasing procedures	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 - 06	Copper (and its compounds)	Instituted improved purchasing procedures	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 - 06	Copper (and its compounds)	Instituted improved purchasing procedures	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 - 06	Copper (and its compounds)	Instituted improved purchasing procedures	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 - 06	Copper (and its compounds)	Instituted improved purchasing procedures	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 - 06	Copper (and its compounds)	Instituted improved purchasing procedures	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 - 06	Copper (and its compounds)	Instituted improved purchasing procedures	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 - 09	Manganese (and its compounds)	Instituted improved purchasing procedures	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 - 09	Manganese (and its compounds)	Instituted improved purchasing procedures	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



CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
NA - 06	Copper (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 - 09	Manganese (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 - 09	Manganese (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 - 09	Manganese (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 - 09	Manganese (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 - 09	Manganese (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 - 09	Manganese (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 - 09	Manganese (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 - 09	Manganese (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 - 09	Manganese (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 - 11	Nickel (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 - 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 - 06	Copper (and its compounds)	No		
NA - 09	Manganese (and its compounds)	No		
NA - 11	Nickel (and its compounds)	No		



CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
NA - 14	Zinc (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 - 14	Zinc (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 - 14	Zinc (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.	
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 - 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		

## Feedback

Comments on the Reporting System

Very satisfied. Did not encounter any technical issues, but there is room for improvement.

## 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)

William Tucker

Report Submitted by

William Tucker

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 MECP TRA - Electronic Certification Statement

#### Annual Report Certification Statement

As of 2020-07-31, I, William Tucker, 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 - 06	Copper (and its compounds)
NA - 09	Manganese (and its compounds)
NA - 11	Nickel (and its compounds)
NA - 14	Zinc (and its compounds)

### Exit Record Certification Statement

As of 2020-07-31, I William Tucker, certify that I have read the records created for the purposes of section 11.2 of Ontario Regulation 455/09 (General) made under the Toxics Reductions Act, (2009) in respect of the use and creation of the toxic substances referred to below at Linex Manufacturing and am familiar with their contents and to my knowledge they are factually accurate.

### TRA Exit Record Substances

CAS RN	Substance Name
NA - 04	Chromium (and its compounds)

Company Name  
Linex Manufacturing

Highest Ranking Employee  
William Tucker

Report Submitted by  
William Tucker

Website address  
https://www.linamar.com/sustainability

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
2019	2020-07-31	Linex Manufacturing	Ontario	Guelph	NPRI, ON MECP 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: 3.16.3

