



National Pollutant Release Inventory (NPRI) and Partners



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Report Preview

Report Details

Report Year	2018
Report Type:	NPRI,ON MECP TRA
Report Status:	Submitted
Modified Date/Time:	15/05/2019 1:30 PM

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 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, Province/Territory, Postal Code: Guelph Ontario N1K 1B2 Country: Canada Latitude: 43.5366 Longitude: -80.3085

Parent Companies

Company Name:	Linamar Corporation
Business Number:	103333662
Civic Address:	Address Line 1: 287 Speedvale Avenue City, Province/Territory, Postal Code: Guelph Ontario N1H 1C5 Country: Canada Latitude: 43.5366 Longitude: -80.3085

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 Approval

Contacts Details

Contact Type

Technical Contact, Person who prepared the report

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Harmeet Chanthalima

Position:

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Contact Type

Certifying Official, Highest Ranking Employee

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William Tucker

Position:

Operations Manager

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Contact Type

Person who coordinated the preparation of the Toxics Reduction Plan

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Barbara Herron

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Enviromental Coordinator

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Mailing Address:

Delivery Mode: GeneralDelivery
Address Line 1: 355 Massey Road
City, Province/Territory, Postal Code: Guelph Ontario N1K 1B2
Country: Canada

General Information

Number of employees:

353

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	29.1600	tonnes
NA - 06	Copper (and its compounds)	N/A	N/A	N/A	32.7600	tonnes
NA - 09	Manganese (and its compounds)	N/A	N/A	N/A	27.4400	tonnes
NA - 11	Nickel (and its compounds)	N/A	N/A	N/A	35.5800	tonnes
NA - 14	Zinc (and its compounds)	N/A	N/A	N/A	9.4600	tonnes

Applicable Programs

CAS RN	Substance Name	NPRI	ON MECP TRA	ON MECP Reg 127/01	First report for this substance to the ON MECP 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 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 - 04	Chromium (and its compounds)	Use	157.58 tonnes	No
NA - 04	Chromium (and its compounds)	Creation	0 tonnes	No

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
NA - 04	Chromium (and its compounds)	Contained in Product	128.42 tonnes	No
NA - 06	Copper (and its compounds)	Use	204.00 tonnes	No
NA - 06	Copper (and its compounds)	Creation	0 tonnes	No
NA - 06	Copper (and its compounds)	Contained in Product	171.23 tonnes	No
NA - 09	Manganese (and its compounds)	Use	160.35 tonnes	No
NA - 09	Manganese (and its compounds)	Creation	0 tonnes	No
NA - 09	Manganese (and its compounds)	Contained in Product	132.91 tonnes	No
NA - 11	Nickel (and its compounds)	Use	187.63 tonnes	No
NA - 11	Nickel (and its compounds)	Creation	0 tonnes	No
NA - 11	Nickel (and its compounds)	Contained in Product	152.05 tonnes	No
NA - 14	Zinc (and its compounds)	Use	59.64 tonnes	No
NA - 14	Zinc (and its compounds)	Creation	0 tonnes	No
NA - 14	Zinc (and its compounds)	Contained in Product	50.19 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 - 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 - 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 is an article component of the raw material and it's recycled. Therefore there is no on-site releases.
NA - 06	Copper (and its compounds)	Other (specify in comment field)	Copper is an article component of the raw material and it's recycled. Therefore there is no on-site releases.
NA - 09	Manganese (and its compounds)	Other (specify in comment field)	Manganese is an article component of the raw material and it's recycled. Therefore there is no on-site releases.
NA - 11	Nickel (and its compounds)	Other (specify in comment field)	Nickel is an article component of the raw material and it's recycled. Therefore there is no on-site releases.
NA - 14	Zinc (and its compounds)	Other (specify in comment field)	Zinc is an article component of the raw material and it's recycled. Therefore there is no on-site releases.

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 is an article component of the raw material and it's recycled. Therefore there is no disposal.
NA - 06	Copper (and its compounds)		Other (specify in comment field)	Copper is an article component of the raw material and it's recycled. Therefore there is no disposal.
NA - 09	Manganese (and its compounds)		Other (specify in comment field)	Manganese is an article component of the raw material and it's recycled. Therefore there is no disposal.
NA - 11	Nickel (and its compounds)		Other (specify in comment field)	Nickel is an article component of the raw material and it's recycled. Therefore there is no disposal.
NA - 14	Zinc (and its compounds)		Other (specify in comment field)	Zinc is an article component of the raw material and it's recycled therefore there is no 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		29.16 tonnes
NA - 06	Copper (and its compounds)	Recovery of Metals and Metal Compounds	C - Mass Balance		32.76 tonnes

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
NA - 09	Manganese (and its compounds)	Recovery of Metals and Metal Compounds	C - Mass Balance		27.44 tonnes
NA - 11	Nickel (and its compounds)	Recovery of Metals and Metal Compounds	C - Mass Balance		35.58 tonnes
NA - 14	Zinc (and its compounds)	Recovery of Metals and Metal Compounds	C - Mass Balance		9.46 tonnes

Recycling - Off-site Transfers for Recycling - Total

CAS RN	Substance Name	Total - Off-site Transfers for Recycling
NA - 04	Chromium (and its compounds)	29.16 tonnes
NA - 06	Copper (and its compounds)	32.76 tonnes
NA - 09	Manganese (and its compounds)	27.44 tonnes
NA - 11	Nickel (and its compounds)	35.58 tonnes
NA - 14	Zinc (and its compounds)	9.46 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	29.16 tonnes
NA - 06	Copper (and its compounds)	Recovery of Metals and Metal Compounds	Gerdau Ameristeel Metals Recycling	200 Dawson Rd., Guelph, ON, Canada	32.76 tonnes
NA - 09	Manganese (and its compounds)	Recovery of Metals and Metal Compounds	Gerdau Ameristeel Metals Recycling	200 Dawson Rd., Guelph, ON, Canada	27.44 tonnes
NA - 11	Nickel (and its compounds)	Recovery of Metals and Metal Compounds	Gerdau Ameristeel Metals Recycling	200 Dawson Rd., Guelph, ON, Canada	35.58 tonnes
NA - 14	Zinc (and its compounds)	Recovery of Metals and Metal Compounds	Gerdau Ameristeel Metals Recycling	200 Dawson Rd., Guelph, ON, Canada	9.46 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	Increase in production levels	
NA - 06	Copper (and its compounds)	Production Residues Off-specification products Unusable parts or discards	Other (specify in comment field)	Change in raw composition.
NA - 09	Manganese (and its compounds)	Production Residues Off-specification products Unusable parts or discards	Increase in production levels	
NA - 11	Nickel (and its compounds)	Production Residues Off-specification products Unusable parts or discards	Increase 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 - 04	Chromium (and its compounds)	No	Enters the facility (Use)	157.58 tonnes	84.44 tonnes	2017	73.14	86.62
NA - 04	Chromium (and its compounds)	No	Creation	0 tonnes	0 tonnes	2017	0	
NA - 04	Chromium (and its compounds)	No	Contained in Product	128.42 tonnes	68.81 tonnes	2017	59.61	86.63
NA - 06	Copper (and its compounds)	No	Enters the facility (Use)	204.00 tonnes	205.99 tonnes	2017	-1.99	-0.97
NA - 06	Copper (and its compounds)	No	Creation	0 tonnes	0 tonnes	2017	0	
NA - 06	Copper (and its compounds)	No	Contained in Product	171.23 tonnes	176.58 tonnes	2017	-5.35	-3.03
NA - 09	Manganese (and its compounds)	No	Enters the facility (Use)	160.35 tonnes	95.73 tonnes	2017	64.62	67.50
NA - 09	Manganese (and its compounds)	No	Creation	0 tonnes	0.00 tonnes	2017	0.00	
NA - 09	Manganese (and its compounds)	No	Contained in Product	132.91 tonnes	77.57 tonnes	2017	55.34	71.34
NA - 11	Nickel (and its compounds)	No	Enters the facility (Use)	187.63 tonnes	143.09 tonnes	2017	44.54	31.13

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 11	Nickel (and its compounds)	No	Creation	0 tonnes	0.00 tonnes	2017	0.00	
NA - 11	Nickel (and its compounds)	No	Contained in Product	152.05 tonnes	119.06 tonnes	2017	32.99	27.71
NA - 14	Zinc (and its compounds)	No	Enters the facility (Use)	59.64 tonnes	106.56 tonnes	2017	-46.92	-44.03
NA - 14	Zinc (and its compounds)	No	Creation	0 tonnes	0.00 tonnes	2017	0.00	
NA - 14	Zinc (and its compounds)	No	Contained in Product	50.19 tonnes	94.92 tonnes	2017	-44.73	-47.12

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)	Increase in production levels	
NA - 06	Copper (and its compounds)	Other	Change in raw composition.
NA - 09	Manganese (and its compounds)	Increase in production levels	
NA - 11	Nickel (and its compounds)	Increase 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 - 04	Chromium (and its compounds)	No	Total off-site Transfers for Recycling	29.16 tonnes	15.63 tonnes	2017	13.53	86.56
NA - 06	Copper (and its compounds)	No	Total off-site Transfers for Recycling	32.76 tonnes	29.41 tonnes	2017	3.35	11.39
NA - 09	Manganese (and its compounds)	No	Total off-site Transfers for Recycling	27.44 tonnes	18.17 tonnes	2017	9.27	51.02
NA - 11	Nickel (and its compounds)	No	Total off-site Transfers for Recycling	35.58 tonnes	24.03 tonnes	2017	11.55	48.06
NA - 14	Zinc (and its compounds)	No	Total off-site Transfers for Recycling	9.46 tonnes	11.64 tonnes	2017	-2.18	-18.73

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)	Increase in production levels	
NA - 06	Copper (and its compounds)	Other	Change in raw composition.
NA - 09	Manganese (and its compounds)	Increase in production levels	
NA - 11	Nickel (and its compounds)	Increase 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

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.

CAS RN	Substance Name	Objectives
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 - 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"> Reduce machining stock on raw material Improve machining processes to reduce scrap Improve supplier processes to reduce returned material Implement ERP system to improve inventory management
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 - 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 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

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 - 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 - 04	Chromium (and its compounds)	Other	Yes	
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 use 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 creation 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 contained in product 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 release to air 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 release to water 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 release to land 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 disposed on-site (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 disposed off-site (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 recycled off-site 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 use 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 creation 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 the substance contained in product 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 release to air 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 release to water 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 release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
NA - 09	Manganese (and its compounds)	Instituted improved purchasing procedures	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 09	Manganese (and its compounds)	Instituted improved purchasing procedures	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 09	Manganese (and its compounds)	Instituted improved purchasing procedures	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 11	Nickel (and its compounds)	Instituted improved purchasing procedures	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 11	Nickel (and its compounds)	Instituted improved purchasing procedures	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 11	Nickel (and its compounds)	Instituted improved purchasing procedures	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	No Amount

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 disposed off-site (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)	Other	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 09	Manganese (and its compounds)	Other	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 09	Manganese (and its compounds)	Other	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 09	Manganese (and its compounds)	Other	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 09	Manganese (and its compounds)	Other	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 09	Manganese (and its compounds)	Other	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 09	Manganese (and its compounds)	Other	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
NA - 09	Manganese (and its compounds)	Other	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 09	Manganese (and its compounds)	Other	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 09	Manganese (and its compounds)	Other	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 11	Nickel (and its compounds)	Other	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 11	Nickel (and its compounds)	Other	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 11	Nickel (and its compounds)	Other	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 11	Nickel (and its compounds)	Other	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 11	Nickel (and its compounds)	Other	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 11	Nickel (and its compounds)	Other	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
NA - 11	Nickel (and its compounds)	Other	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 11	Nickel (and its compounds)	Other	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 11	Nickel (and its compounds)	Other	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Other	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Other	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Other	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Other	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Other	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Other	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
NA - 14	Zinc (and its compounds)	Other	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Other	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Other	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	No Amount

Progress on TRA Plan - Additional Actions

CAS RN	Substance Name	Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance?	Describe any additional actions that were taken during the reporting period to achieve the plan's objectives	Provide a public summary of the description of the additional action taken
NA - 04	Chromium (and its compounds)	No		
NA - 06	Copper (and its compounds)	No		
NA - 09	Manganese (and its compounds)	No		

CAS RN	Substance Name	Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance?	Describe any additional actions that were taken during the reporting period to achieve the plan's objectives	Provide a public summary of the description of the additional action taken
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 use 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 creation 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 contained in product 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 release to air 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 release to water 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 release to land 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 disposed on-site (including tailings and waste rocks) 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 disposed off-site (including tailings and waste rocks) 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 recycled off-site at the facility during the reporting period that resulted due to the additional actions.	
NA - 06	Copper (and its compounds)	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 06	Copper (and its compounds)	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 06	Copper (and its compounds)	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
NA - 06	Copper (and its compounds)	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 06	Copper (and its compounds)	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 06	Copper (and its compounds)	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.	
NA - 06	Copper (and its compounds)	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 06	Copper (and its compounds)	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 06	Copper (and its compounds)	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.	
NA - 09	Manganese (and its compounds)	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 09	Manganese (and its compounds)	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 09	Manganese (and its compounds)	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
NA - 09	Manganese (and its compounds)	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 09	Manganese (and its compounds)	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 09	Manganese (and its compounds)	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.	
NA - 09	Manganese (and its compounds)	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 09	Manganese (and its compounds)	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 09	Manganese (and its compounds)	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.	
NA - 11	Nickel (and its compounds)	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 11	Nickel (and its compounds)	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 11	Nickel (and its compounds)	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
NA - 11	Nickel (and its compounds)	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 11	Nickel (and its compounds)	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 11	Nickel (and its compounds)	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.	
NA - 11	Nickel (and its compounds)	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 11	Nickel (and its compounds)	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 11	Nickel (and its compounds)	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.	

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)

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 15/05/2019, 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 - 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)

*Due to reporting system limitations, for the 2018 annual report the TRA Substance List may included new Volatile Organic Compounds (VOCs) and/or Dioxins and Furans congeners reported to NPRI only.

Company Name

Linex Manufacturing

Highest Ranking Employee

William Tucker

Report Submitted by

William Tucker

Website address

<https://www.linamar.com/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
2018	15/05/2019	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: 3.15.0

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