



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:	Update 1 - Submitted
Modified Date/Time:	03/06/2019 6:16 PM

Company and Facility Details

Company Name:	Hammond Manufacturing Co Ltd.
Business Number:	102260528
Mailing Address:	Delivery Mode: GeneralDelivery Address Line 1: 394 Edinburgh Road North City, Province/Territory, Postal Code: Guelph Ontario N1H 1E5 Country: Canada
Facility Name:	Edinburgh Road
NAICS Code:	335315
NPRI ID:	11602
Portable:	No
Physical Address:	Address Line 1: 394 Edinburgh Road North City, Province/Territory, Postal Code: Guelph Ontario N1H 1E5 Country: Canada Latitude: 43.5519 Longitude: -80.28 UTM Zone: 17 UTM Easting: 558186 UTM Northing: 4822286

Contacts Details

Contact Type	Technical Contact, Person who coordinated the preparation of the Toxics Reduction Plan
Name:	Jennifer Holmes
Position:	HSE Manager
Telephone:	5198222960
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Fax:	5198220715
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Contact Type	Certifying Official

Name: Rob Hammond

Position: President

Telephone: 5198222960

Extension: 101

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Email: rhammond@hammfg.com

Contact Type: Contractor Contact, Person who prepared the report

Name: Erik Martinez

Position: Environmental Consultant

Telephone: 5193404213

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Email: erik.martinez@ghd.com

Independent contractor/consultant company name: GHD Limited

Contact Type: Highest Ranking Employee

Name: Rob Hammond

Position: President

Telephone: 5198222960

Extension: 101

Email: rhammond@hammfg.com

Mailing Address: Address Line 1: 394 Edinburgh Road
City, Province/Territory, Postal Code: Guelph Ontario N1H 1E5
Country: Canada

General Information

Number of employees: 368

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: No

Did the facility report under other environmental regulations or permits: No

Is the facility required to report one or more NPRI Part 4 substances (Criteria Air Contaminants): No

Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
NA - 04	Chromium (and its compounds)	0.0111	N/A	0.0944	74.6570	tonnes

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
NA - 05	Cobalt (and its compounds)	1.2400	N/A	9.4330	7757.0330	kg
NA - 06	Copper (and its compounds)	0.0015	N/A	0.0136	9.3120	tonnes
NA - 08	Lead (and its compounds)	0.0758	N/A	0.7603	573.3680	kg
NA - 09	Manganese (and its compounds)	0.0075	N/A	0.0629	46.0290	tonnes
NA - 11	Nickel (and its compounds)	0.0167	N/A	0.1044	83.0650	tonnes
NA - 14	Zinc (and its compounds)	0.0009	N/A	0.0151	8.6740	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 - 05	Cobalt (and its compounds)	Yes	Yes		No
NA - 06	Copper (and its compounds)	Yes	Yes		No
NA - 08	Lead (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)	Yes	Yes	No
NA - 05	Cobalt (and its compounds)	Yes	No	No
NA - 06	Copper (and its compounds)	Yes	Yes	No
NA - 08	Lead (and its compounds)	Yes	No	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 - 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)	Yes	No	Yes
NA - 05	Cobalt (and its compounds)	Yes	No	Yes
NA - 06	Copper (and its compounds)	Yes	No	Yes
NA - 08	Lead (and its compounds)	Yes	No	Yes
NA - 09	Manganese (and its compounds)	Yes	No	Yes
NA - 11	Nickel (and its compounds)	Yes	No	Yes
NA - 14	Zinc (and its compounds)	Yes	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)		As an article component	
NA - 05	Cobalt (and its compounds)		As an article component	
NA - 06	Copper (and its compounds)		As an article component	

CAS RN	Substance Name	Manufacture the Substance	Process the Substance	Otherwise Use of the Substance
NA - 08	Lead (and its compounds)		As an article component	
NA - 09	Manganese (and its compounds)		As an article component	
NA - 11	Nickel (and its compounds)		As an article component	
NA - 14	Zinc (and its compounds)		As an article component	

Substances added to/removed from the report

CAS RN	Substance Name	Added/Removed	Comment
7664-93-9	Sulphuric acid	Removed	

TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
NA - 04	Chromium (and its compounds)	Use	211.899 tonnes	Yes
NA - 04	Chromium (and its compounds)	Creation	0 tonnes	Yes
NA - 04	Chromium (and its compounds)	Contained in Product	137.136 tonnes	Yes
NA - 05	Cobalt (and its compounds)	Use	21173.697 kg	Yes
NA - 05	Cobalt (and its compounds)	Creation	0 kg	Yes
NA - 05	Cobalt (and its compounds)	Contained in Product	13416.665 kg	Yes
NA - 06	Copper (and its compounds)	Use	30.552 tonnes	Yes
NA - 06	Copper (and its compounds)	Creation	0 tonnes	Yes
NA - 06	Copper (and its compounds)	Contained in Product	21.225 tonnes	Yes
NA - 08	Lead (and its compounds)	Use	1706.651 kg	Yes
NA - 08	Lead (and its compounds)	Creation	0 kg	Yes
NA - 08	Lead (and its compounds)	Contained in Product	1132.447 kg	Yes
NA - 09	Manganese (and its compounds)	Use	141.278 tonnes	Yes
NA - 09	Manganese (and its compounds)	Creation	0 tonnes	Yes
NA - 09	Manganese (and its compounds)	Contained in Product	95.179 tonnes	Yes
NA - 11	Nickel (and its compounds)	Use	233.945 tonnes	Yes
NA - 11	Nickel (and its compounds)	Creation	0 tonnes	Yes
NA - 11	Nickel (and its compounds)	Contained in Product	150.759 tonnes	Yes
NA - 14	Zinc (and its compounds)	Use	29.110 tonnes	Yes
NA - 14	Zinc (and its compounds)	Creation	0 tonnes	Yes
NA - 14	Zinc (and its compounds)	Contained in Product	20.420 tonnes	Yes

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 - 05	Cobalt (and its compounds)					No	
NA - 06	Copper (and its compounds)					No	
NA - 08	Lead (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 - Releases to air

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
NA - 05	Cobalt (and its compounds)	Fugitive Releases	O - Engineering Estimates		1.240 kg
NA - 08	Lead (and its compounds)	Stack or Point Releases	O - Engineering Estimates		0.0758 kg

On-site Releases - Releases to air - Total

CAS RN	Substance Name	Total - Releases to Air
NA - 05	Cobalt (and its compounds)	1.240 kg
NA - 08	Lead (and its compounds)	0.0758 kg

Total Quantity Released (All Media)

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
NA - 04	Chromium (and its compounds)	Total Quantity Released	E2 - Published Emission Factors		0.0111 tonnes
NA - 06	Copper (and its compounds)	Total Quantity Released	O - Engineering Estimates		0.0015 tonnes
NA - 09	Manganese (and its compounds)	Total Quantity Released	O - Engineering Estimates		0.0075 tonnes
NA - 11	Nickel (and its compounds)	Total Quantity Released	O - Engineering Estimates		0.0167 tonnes
NA - 14	Zinc (and its compounds)	Total Quantity Released	C - Mass Balance		0.0009 tonnes

On-site Releases - Total

CAS RN	Substance Name	Total releases
NA - 05	Cobalt (and its compounds)	1.240 kg
NA - 08	Lead (and its compounds)	0.0758 kg

On-site Releases - Quarterly Breakdown of Annual Releases

CAS RN	Substance Name	Quarter 1	Quarter 2	Quarter 3	Quarter 4
NA - 04	Chromium (and its compounds)	25	25	25	25
NA - 05	Cobalt (and its compounds)	25	25	25	25
NA - 06	Copper (and its compounds)	25	25	25	25
NA - 08	Lead (and its compounds)	25	25	25	25
NA - 09	Manganese (and its compounds)	25	25	25	25
NA - 11	Nickel (and its compounds)	25	25	25	25
NA - 14	Zinc (and its compounds)	25	25	25	25

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)	No significant change (i.e. <10% or no change)	
NA - 05	Cobalt (and its compounds)	Increase in production levels	
NA - 06	Copper (and its compounds)	Increase in production levels	
NA - 08	Lead (and its compounds)	Increase in production levels	
NA - 09	Manganese (and its compounds)	No significant change (i.e. <10% or no change)	
NA - 11	Nickel (and its compounds)	Increase in production levels	
NA - 14	Zinc (and its compounds)	No significant change (i.e. <10% or no change)	

Disposals - Off-site Disposal (excluding Tailings and Waste Rock)

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
NA - 04	Chromium (and its compounds)	Landfill	O - Engineering Estimates		0.0944 tonnes
NA - 05	Cobalt (and its compounds)	Landfill	O - Engineering Estimates		9.433 kg
NA - 06	Copper (and its compounds)	Landfill	O - Engineering Estimates		0.0136 tonnes
NA - 08	Lead (and its compounds)	Landfill	O - Engineering Estimates		0.7603 kg
NA - 09	Manganese (and its compounds)	Landfill	O - Engineering Estimates		0.0629 tonnes
NA - 11	Nickel (and its compounds)	Landfill	O - Engineering Estimates		0.1044 tonnes
NA - 14	Zinc (and its compounds)	Landfill	O - Engineering Estimates		0.0151 tonnes

Disposals - Off-site Disposal (excluding Tailings and Waste Rock) - Total

CAS RN	Substance Name	Total - Off-site Disposals
NA - 04	Chromium (and its compounds)	0.0944 tonnes
NA - 05	Cobalt (and its compounds)	9.433 kg
NA - 06	Copper (and its compounds)	0.0136 tonnes
NA - 08	Lead (and its compounds)	0.7603 kg
NA - 09	Manganese (and its compounds)	0.0629 tonnes

CAS RN	Substance Name	Total - Off-site Disposals
NA - 11	Nickel (and its compounds)	0.1044 tonnes
NA - 14	Zinc (and its compounds)	0.0151 tonnes

Disposals - Off-site Disposal (excluding Tailings and Waste Rock) - By Facilities

CAS RN	Substance Name	Category	Off-site Name	Off-site Address	Quantity
NA - 04	Chromium (and its compounds)	Landfill	Guelph Wet-Drt Facility	110 Dunlop Drive, Guelph, ON, Canada	0.0944 tonnes
NA - 05	Cobalt (and its compounds)	Landfill	Guelph Wet-Drt Facility	110 Dunlop Drive, Guelph, ON, Canada	9.433 kg
NA - 06	Copper (and its compounds)	Landfill	Guelph Wet-Drt Facility	110 Dunlop Drive, Guelph, ON, Canada	0.0136 tonnes
NA - 08	Lead (and its compounds)	Landfill	Guelph Wet-Drt Facility	110 Dunlop Drive, Guelph, ON, Canada	0.7603 kg
NA - 09	Manganese (and its compounds)	Landfill	Guelph Wet-Drt Facility	110 Dunlop Drive, Guelph, ON, Canada	0.0629 tonnes
NA - 11	Nickel (and its compounds)	Landfill	Guelph Wet-Drt Facility	110 Dunlop Drive, Guelph, ON, Canada	0.1044 tonnes
NA - 14	Zinc (and its compounds)	Landfill	Triple M Metals	61 Balzar Rd., Kitchener, ON, Canada	0.0151 tonnes

Disposals - Total Quantity Disposed (All Media)

CAS RN	Substance Name	Total Quantity Disposed (All Media)
NA - 04	Chromium (and its compounds)	0.0944 tonnes
NA - 05	Cobalt (and its compounds)	9.433 kg
NA - 06	Copper (and its compounds)	0.0136 tonnes
NA - 08	Lead (and its compounds)	0.7603 kg
NA - 09	Manganese (and its compounds)	0.0629 tonnes
NA - 11	Nickel (and its compounds)	0.1044 tonnes
NA - 14	Zinc (and its compounds)	0.0151 tonnes

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)	Machine or finishing residues	Increase in production levels	
NA - 05	Cobalt (and its compounds)	Machine or finishing residues	Increase in production levels	
NA - 06	Copper (and its compounds)	Machine or finishing residues	Increase in production levels	
NA - 08	Lead (and its compounds)	Machine or finishing residues	Increase in production levels	
NA - 09	Manganese (and its compounds)	Machine or finishing residues	No significant change (i.e. <10% or no change)	
NA - 11	Nickel (and its compounds)	Machine or finishing residues	Increase in production levels	
NA - 14	Zinc (and its compounds)	Machine or finishing residues	No significant change (i.e. <10% or no change)	Changes in mixtures of types of steel used

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		74.657 tonnes
NA - 05	Cobalt (and its compounds)	Recovery of Metals and Metal Compounds	O - Engineering Estimates		7757.033 kg
NA - 06	Copper (and its compounds)	Recovery of Metals and Metal Compounds	C - Mass Balance		9.312 tonnes
NA - 08	Lead (and its compounds)	Recovery of Metals and Metal Compounds	C - Mass Balance		573.368 kg
NA - 09	Manganese (and its compounds)	Recovery of Metals and Metal Compounds	C - Mass Balance		46.029 tonnes
NA - 11	Nickel (and its compounds)	Recovery of Metals and Metal Compounds	C - Mass Balance		83.065 tonnes
NA - 14	Zinc (and its compounds)	Recovery of Metals and Metal Compounds	C - Mass Balance		8.674 tonnes

Recycling - Off-site Transfers for Recycling - Total

CAS RN	Substance Name	Total - Off-site Transfers for Recycling
NA - 04	Chromium (and its compounds)	74.657 tonnes
NA - 05	Cobalt (and its compounds)	7757.033 kg
NA - 06	Copper (and its compounds)	9.312 tonnes
NA - 08	Lead (and its compounds)	573.368 kg
NA - 09	Manganese (and its compounds)	46.029 tonnes
NA - 11	Nickel (and its compounds)	83.065 tonnes

CAS RN	Substance Name	Total - Off-site Transfers for Recycling
NA - 14	Zinc (and its compounds)	8.674 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	Triple M Metals	61 Balzar Rd., Kitchener, ON, Canada	74.657 tonnes
NA - 05	Cobalt (and its compounds)	Recovery of Metals and Metal Compounds	Triple M Metals	61 Balzar Rd., Kitchener, ON, Canada	7757.033 kg
NA - 06	Copper (and its compounds)	Recovery of Metals and Metal Compounds	Triple M Metals	61 Balzar Rd., Kitchener, ON, Canada	9.312 tonnes
NA - 08	Lead (and its compounds)	Recovery of Metals and Metal Compounds	Triple M Metals	61 Balzar Rd., Kitchener, ON, Canada	573.368 kg
NA - 09	Manganese (and its compounds)	Recovery of Metals and Metal Compounds	Triple M Metals	61 Balzar Rd., Kitchener, ON, Canada	46.029 tonnes
NA - 11	Nickel (and its compounds)	Recovery of Metals and Metal Compounds	Triple M Metals	61 Balzar Rd., Kitchener, ON, Canada	83.065 tonnes
NA - 14	Zinc (and its compounds)	Recovery of Metals and Metal Compounds	Guelph Wet-Drt Facility	110 Dunlop Drive, Guelph, ON, Canada	
NA - 14	Zinc (and its compounds)	Recovery of Metals and Metal Compounds	Triple M Metals	61 Balzar Rd., Kitchener, ON, Canada	8.674 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)	Unusable parts or discards	Nature of activities results in annual variation in releases/disposals/transfers (Describe the activity and how it impacts the reported quantity in the comment field)	Timing
NA - 05	Cobalt (and its compounds)	Machine or finishing residues	Increase in production levels Nature of activities results in annual variation in releases/disposals/transfers (Describe the activity and how it impacts the reported quantity in the comment field)	Timing
NA - 06	Copper (and its compounds)	Unusable parts or discards	Nature of activities results in annual variation in releases/disposals/transfers (Describe the activity and how it impacts the reported quantity in the comment field)	Changes in ratio of raw materials, timing
NA - 08	Lead (and its compounds)	Unusable parts or discards	Changes in composition of materials released/disposed of/transferred	Timing
NA - 09	Manganese (and its compounds)	Unusable parts or discards	Nature of activities results in annual variation in releases/disposals/transfers (Describe the activity and how it impacts the reported quantity in the comment field)	Timing
NA - 11	Nickel (and its compounds)	Unusable parts or discards	Changes in composition of materials released/disposed of/transferred	Timing
NA - 14	Zinc (and its compounds)	Unusable parts or discards	No significant change (i.e. <10% or no change)	Timing

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)	211.899 tonnes	188.301 tonnes	2017	23.598	12.53
NA - 04	Chromium (and its compounds)	No	Creation	0 tonnes	0 tonnes	2017	0	
NA - 04	Chromium (and its compounds)	No	Contained in Product	137.136 tonnes	133.070 tonnes	2017	4.066	3.06
NA - 05	Cobalt (and its compounds)	No	Enters the facility (Use)	21173.697 kg	17528.813 kg	2017	3644.884	20.79
NA - 05	Cobalt (and its compounds)	No	Creation	0 kg	0 kg	2017	0	
NA - 05	Cobalt (and its compounds)	No	Contained in Product	13416.665 kg	12330.38 kg	2017	1086.285	8.81
NA - 06	Copper (and its compounds)	No	Enters the facility (Use)	30.552 tonnes	24.613 tonnes	2017	5.939	24.13
NA - 06	Copper (and its compounds)	No	Creation	0 tonnes	0 tonnes	2017	0	
NA - 06	Copper (and its compounds)	No	Contained in Product	21.225 tonnes	17.878 tonnes	2017	3.347	18.72
NA - 08	Lead (and its compounds)	No	Enters the facility (Use)	1706.651 kg	1350.551 kg	2017	356.100	26.37
NA - 08	Lead (and its compounds)	No	Creation	0 kg	0 kg	2017	0	
NA - 08	Lead (and its compounds)	No	Contained in Product	1132.447 kg	883.885 kg	2017	248.562	28.12

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 09	Manganese (and its compounds)	No	Enters the facility (Use)	141.278 tonnes	139.824 tonnes	2017	1.454	1.04
NA - 09	Manganese (and its compounds)	No	Creation	0 tonnes	0 tonnes	2017	0	
NA - 09	Manganese (and its compounds)	No	Contained in Product	95.179 tonnes	99.692 tonnes	2017	-4.513	-4.53
NA - 11	Nickel (and its compounds)	No	Enters the facility (Use)	233.945 tonnes	205.762 tonnes	2017	28.183	13.70
NA - 11	Nickel (and its compounds)	No	Creation	0 tonnes	0 tonnes	2017	0	
NA - 11	Nickel (and its compounds)	No	Contained in Product	150.759 tonnes	145.205 tonnes	2017	5.554	3.82
NA - 14	Zinc (and its compounds)	No	Enters the facility (Use)	29.110 tonnes	29.911 tonnes	2017	-0.801	-2.68
NA - 14	Zinc (and its compounds)	No	Creation	0 tonnes	0 tonnes	2017	0	
NA - 14	Zinc (and its compounds)	No	Contained in Product	20.420 tonnes	21.052 tonnes	2017	-0.632	-3.00

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)	Other	Timing of off-site transfers changes mass balance resulting in contained in product change.
NA - 05	Cobalt (and its compounds)	Increase in production levels	
NA - 06	Copper (and its compounds)	Increase in production levels	
NA - 08	Lead (and its compounds)	Increase in production levels	
NA - 09	Manganese (and its compounds)	No reasons - quantities approximately the same	
NA - 11	Nickel (and its compounds)	Increase in production levels Other	Timing of disposals changes the mass balance for contained in product
NA - 14	Zinc (and its compounds)	No reasons - quantities approximately the same	

Comparison Report - On-site Releases

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 Releases to Air	0 tonnes	0.0109 tonnes	2017	-0.0109	-100
NA - 04	Chromium (and its compounds)	No	Total Releases to Water	0 tonnes	0 tonnes	2017	0	
NA - 04	Chromium (and its compounds)	No	Total Releases to Land	0 tonnes	0 tonnes	2017	0	
NA - 04	Chromium (and its compounds)	No	Total Releases to All Media	0.0111 tonnes	0.0109 tonnes	2017	0.0002	1.83
NA - 05	Cobalt (and its compounds)	No	Total Releases to Air	1.240 kg	1.218 kg	2017	0.022	1.81
NA - 05	Cobalt (and its compounds)	No	Total Releases to Water	0 kg	0 kg	2017	0	
NA - 05	Cobalt (and its compounds)	No	Total Releases to Land	0 kg	0 kg	2017	0	
NA - 05	Cobalt (and its compounds)	No	Total Releases to All Media	0 kg	0 kg	2017	0	
NA - 06	Copper (and its compounds)	No	Total Releases to Air	0 tonnes	0 tonnes	2017	0	
NA - 06	Copper (and its compounds)	No	Total Releases to Water	0 tonnes	0 tonnes	2017	0	
NA - 06	Copper (and its compounds)	No	Total Releases to Land	0 tonnes	0 tonnes	2017	0	
NA - 06	Copper (and its compounds)	No	Total Releases to All Media	0.0015 tonnes	0.0014 tonnes	2017	0.0001	7.14
NA - 08	Lead (and its compounds)	No	Total Releases to Air	0.0758 kg	0.0665 kg	2017	0.0093	13.98
NA - 08	Lead (and its compounds)	No	Total Releases to Water	0 kg	0 kg	2017	0	
NA - 08	Lead (and its compounds)	No	Total Releases to Land	0 kg	0 kg	2017	0	

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 08	Lead (and its compounds)	No	Total Releases to All Media	0 kg	0 kg	2017	0	
NA - 09	Manganese (and its compounds)	No	Total Releases to Air	0 tonnes	0 tonnes	2017	0	
NA - 09	Manganese (and its compounds)	No	Total Releases to Water	0 tonnes	0 tonnes	2017	0	
NA - 09	Manganese (and its compounds)	No	Total Releases to Land	0 tonnes	0 tonnes	2017	0	
NA - 09	Manganese (and its compounds)	No	Total Releases to All Media	0.0075 tonnes	0.007 tonnes	2017	0.0005	7.14
NA - 11	Nickel (and its compounds)	No	Total Releases to Air	0 tonnes	0 tonnes	2017	0	
NA - 11	Nickel (and its compounds)	No	Total Releases to Water	0 tonnes	0 tonnes	2017	0	
NA - 11	Nickel (and its compounds)	No	Total Releases to Land	0 tonnes	0 tonnes	2017	0	
NA - 11	Nickel (and its compounds)	No	Total Releases to All Media	0.0167 tonnes	0.0152 tonnes	2017	0.0015	9.87
NA - 14	Zinc (and its compounds)	No	Total Releases to Air	0 tonnes	0 tonnes	2017	0	
NA - 14	Zinc (and its compounds)	No	Total Releases to Water	0 tonnes	0 tonnes	2017	0	
NA - 14	Zinc (and its compounds)	No	Total Releases to Land	0 tonnes	0 tonnes	2017	0	
NA - 14	Zinc (and its compounds)	No	Total Releases to All Media	0.0009 tonnes	0.0008 tonnes	2017	0.0001	12.50

Comparison Report - On-site Releases - 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 - 05	Cobalt (and its compounds)	No reasons - quantities approximately the same	
NA - 06	Copper (and its compounds)	No reasons - quantities approximately the same	
NA - 08	Lead (and its compounds)	Increase in production levels	
NA - 09	Manganese (and its compounds)	No reasons - quantities approximately the same	
NA - 11	Nickel (and its compounds)	Increase in production levels	
NA - 14	Zinc (and its compounds)	No reasons - quantities approximately the same	

Comparison Report - Disposals On-site, Off-site and Tailings and Waste Rock

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 On-site Disposals	0 tonnes	0 tonnes	2017	0	
NA - 04	Chromium (and its compounds)	No	Total Off-site Disposals	0.0944 tonnes	0.078 tonnes	2017	0.0164	21.03
NA - 04	Chromium (and its compounds)	No	Total Off-site transfer for treatment Prior to Final Disposal	0 tonnes	0 tonnes	2017	0	
NA - 04	Chromium (and its compounds)	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2017	0	
NA - 04	Chromium (and its compounds)	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2017	0	
NA - 05	Cobalt (and its compounds)	No	Total On-site Disposals	0 kg	0 kg	2017	0	
NA - 05	Cobalt (and its compounds)	No	Total Off-site Disposals	9.433 kg	7.285 kg	2017	2.148	29.49
NA - 05	Cobalt (and its compounds)	No	Total Off-site transfer for treatment Prior to Final Disposal	0 kg	0 kg	2017	0	
NA - 05	Cobalt (and its compounds)	No	Total On-site Disposal of Tailings and Waste Rock	0 kg	0 kg	2017	0	
NA - 05	Cobalt (and its compounds)	No	Total Off-site Disposal of Tailings and Waste Rock	0 kg	0 kg	2017	0	
NA - 06	Copper (and its compounds)	No	Total On-site Disposals	0 tonnes	0 tonnes	2017	0	
NA - 06	Copper (and its compounds)	No	Total Off-site Disposals	0.0136 tonnes	0.010 tonnes	2017	0.0036	36.00
NA - 06	Copper (and its compounds)	No	Total Off-site transfer for treatment Prior to Final Disposal	0 tonnes	0 tonnes	2017	0	

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 On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2017	0	
NA - 06	Copper (and its compounds)	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2017	0	
NA - 08	Lead (and its compounds)	No	Total On-site Disposals	0 kg	0 kg	2017	0	
NA - 08	Lead (and its compounds)	No	Total Off-site Disposals	0.7603 kg	0.561 kg	2017	0.1993	35.53
NA - 08	Lead (and its compounds)	No	Total Off-site transfer for treatment Prior to Final Disposal	0 kg	0 kg	2017	0	
NA - 08	Lead (and its compounds)	No	Total On-site Disposal of Tailings and Waste Rock	0 kg	0 kg	2017	0	
NA - 08	Lead (and its compounds)	No	Total Off-site Disposal of Tailings and Waste Rock	0 kg	0 kg	2017	0	
NA - 09	Manganese (and its compounds)	No	Total On-site Disposals	0 tonnes	0 tonnes	2017	0	
NA - 09	Manganese (and its compounds)	No	Total Off-site Disposals	0.0629 tonnes	0.058 tonnes	2017	0.0049	8.45
NA - 09	Manganese (and its compounds)	No	Total Off-site transfer for treatment Prior to Final Disposal	0 tonnes	0 tonnes	2017	0	
NA - 09	Manganese (and its compounds)	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2017	0	
NA - 09	Manganese (and its compounds)	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2017	0	
NA - 11	Nickel (and its compounds)	No	Total On-site Disposals	0 tonnes	0 tonnes	2017	0	
NA - 11	Nickel (and its compounds)	No	Total Off-site Disposals	0.1044 tonnes	0.086 tonnes	2017	0.0184	21.40
NA - 11	Nickel (and its compounds)	No	Total Off-site transfer for treatment Prior to Final Disposal	0 tonnes	0 tonnes	2017	0	
NA - 11	Nickel (and its compounds)	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2017	0	
NA - 11	Nickel (and its compounds)	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2017	0	
NA - 14	Zinc (and its compounds)	No	Total On-site Disposals	0 tonnes	0 tonnes	2017	0	
NA - 14	Zinc (and its compounds)	No	Total Off-site Disposals	0.0151 tonnes	0.014 tonnes	2017	0.0011	7.86
NA - 14	Zinc (and its compounds)	No	Total Off-site transfer for treatment Prior to Final Disposal	0 tonnes	0 tonnes	2017	0	
NA - 14	Zinc (and its compounds)	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2017	0	
NA - 14	Zinc (and its compounds)	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2017	0	

Comparison Report - Disposals On-site, Off-site and Tailings and Waste Rock - 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 - 05	Cobalt (and its compounds)	Increase in production levels	
NA - 06	Copper (and its compounds)	Other	Timing
NA - 08	Lead (and its compounds)	Increase in production levels Other	Timing
NA - 09	Manganese (and its compounds)	No reasons - quantities approximately the same	
NA - 11	Nickel (and its compounds)	Increase in production levels	
NA - 14	Zinc (and its compounds)	No reasons - quantities approximately the same	

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	74.657 tonnes	55.141 tonnes	2017	19.516	35.39
NA - 05	Cobalt (and its compounds)	No	Total off-site Transfers for Recycling	7757.033 kg	5198.435 kg	2017	2558.598	49.22
NA - 06	Copper (and its compounds)	No	Total off-site Transfers for Recycling	9.312 tonnes	6.724 tonnes	2017	2.588	38.49
NA - 08	Lead (and its compounds)	No	Total off-site Transfers for Recycling	573.368 kg	466.053 kg	2017	107.315	23.03

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 09	Manganese (and its compounds)	No	Total off-site Transfers for Recycling	46.029 tonnes	40.066 tonnes	2017	5.963	14.88
NA - 11	Nickel (and its compounds)	No	Total off-site Transfers for Recycling	83.065 tonnes	60.459 tonnes	2017	22.606	37.39
NA - 14	Zinc (and its compounds)	No	Total off-site Transfers for Recycling	8.674 tonnes	8.845 tonnes	2017	-0.171	-1.93

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)	Other	Timing
NA - 05	Cobalt (and its compounds)	Increase in production levels Other	Timing
NA - 06	Copper (and its compounds)	Other	Timing
NA - 08	Lead (and its compounds)	Other	Timing
NA - 09	Manganese (and its compounds)	Other	Timing
NA - 11	Nickel (and its compounds)	Other	Timing
NA - 14	Zinc (and its compounds)	No reasons - quantities approximately the same	

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)	Hammond Manufacturing's focus is on quality products and service excellence through employee involvement. Keeping this in mind, the objective of our plan is to increase efficiencies through new equipment, training, improved recycling, and improved use of existing equipment. This plan will explore efficiency options and determine the technical and economic feasibility of the options to determine which, if any, are viable for implementation at this time.
NA - 05	Cobalt (and its compounds)	Hammond plans on focusing on training to improve efficient use of stainless steel.
NA - 06	Copper (and its compounds)	Hammond Manufacturing's focus is on quality products and service excellence through employee involvement. Keeping this in mind, the objective of our plan is to increase efficiencies through new equipment, training, improved recycling, and improved use of existing equipment. This plan will explore efficiency options and determine the technical and economic feasibility of the options to determine which, if any, are viable for implementation at this time.
NA - 08	Lead (and its compounds)	Hammond Manufacturing's focus is on quality products and service excellence through employee involvement. Keeping this in mind, the objective of our plan is to increase efficiencies through new equipment, training, improved recycling, and improved use of existing equipment. This plan will explore efficiency options and determine the technical and economic feasibility of the options to determine which, if any, are viable for implementation at this time.
NA - 09	Manganese (and its compounds)	Hammond Manufacturing's focus is on quality products and service excellence through employee involvement. Keeping this in mind, the objective of our plan is to increase efficiencies through new equipment, training, improved recycling, and improved use of existing equipment. This plan will explore efficiency options and determine the technical and economic feasibility of the options to determine which, if any, are viable for implementation at this time.
NA - 11	Nickel (and its compounds)	Hammond Manufacturing's focus is on quality products and service excellence through employee involvement. Keeping this in mind, the objective of our plan is to increase efficiencies through new equipment, training, improved recycling, and improved use of existing equipment. This plan will explore efficiency options and determine the technical and economic feasibility of the options to determine which, if any, are viable for implementation at this time.
NA - 14	Zinc (and its compounds)	Cr, Cu, Pb, Mn, Ni, and Zn are all found as components of the steel used to manufacture our products. Steel containing these toxic substances is used in most of the processes at this facility. While we intend to improve the efficient use of steel at our facility, we also hope to increase our sales, which may in turn increase our use of steel. Hammond Manufacturing does not set the standards for, nor has any influence on, the content of steel. The standards are set by ASTM International formerly know as American Society for Testing Materials, for the global production of steel. This facility does not create any of the 6 toxic elements, therefore this plan will not address reducing any creation.

Progress on TRA Plan - Use Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
NA - 04	Chromium (and its compounds)	No quantity target	No timeline target	
NA - 05	Cobalt (and its compounds)	No quantity target	No timeline target	
NA - 06	Copper (and its compounds)	No quantity target	No timeline target	
NA - 08	Lead (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 - Creation Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
NA - 04	Chromium (and its compounds)	No quantity target	No timeline target	
NA - 05	Cobalt (and its compounds)	No quantity target	No timeline target	
NA - 06	Copper (and its compounds)	No quantity target	No timeline target	
NA - 08	Lead (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)	Modified equipment, layout or piping	No steps were taken during the 2018 reporting year.	No steps were taken during the 2018 reporting year.	No steps were taken during the 2018 reporting year.	No steps were taken during the 2018 reporting year.
NA - 04	Chromium (and its compounds)	Other	No steps were taken during the 2018 reporting year.	No steps were taken during the 2018 reporting year.	No steps were taken during the 2018 reporting year.	No steps were taken during the 2018 reporting year.
NA - 05	Cobalt (and its compounds)	Other	No steps were taken during the 2018 reporting year.	No steps were taken during the 2018 reporting year.	No steps were taken during the 2018 reporting year.	No steps were taken during the 2018 reporting year.
NA - 06	Copper (and its compounds)	Modified equipment, layout or piping	No steps were taken during the 2018 reporting year.	No steps were taken during the 2018 reporting year.	No steps were taken during the 2018 reporting year.	No steps were taken during the 2018 reporting year.
NA - 06	Copper (and its compounds)	Other	No steps were taken during the 2018 reporting year.	No steps were taken during the 2018 reporting year.	No steps were taken during the 2018 reporting year.	No steps were taken during the 2018 reporting year.
NA - 14	Zinc (and its compounds)	Modified equipment, layout or piping	No steps were taken during the 2018 reporting year.	No steps were taken during the 2018 reporting year.	No steps were taken during the 2018 reporting year.	No steps were taken during the 2018 reporting year.
NA - 14	Zinc (and its compounds)	Other	No steps were taken during the 2018 reporting year.	No steps were taken during the 2018 reporting year.	No steps were taken during the 2018 reporting year.	No steps were taken during the 2018 reporting year.

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)	Modified equipment, layout or piping	Yes	
NA - 04	Chromium (and its compounds)	Other	Yes	
NA - 05	Cobalt (and its compounds)	Other	Yes	
NA - 06	Copper (and its compounds)	Modified equipment, layout or piping	Yes	
NA - 06	Copper (and its compounds)	Other	Yes	
NA - 14	Zinc (and its compounds)	Modified equipment, layout or piping	Yes	
NA - 14	Zinc (and its compounds)	Other	Yes	

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

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
NA - 04	Chromium (and its compounds)	Modified equipment, layout or piping	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 04	Chromium (and its compounds)	Modified equipment, layout or piping	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 04	Chromium (and its compounds)	Modified equipment, layout or piping	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 04	Chromium (and its compounds)	Modified equipment, layout or piping	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
NA - 06	Copper (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 - 06	Copper (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 - 06	Copper (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 - 06	Copper (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 - 06	Copper (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 - 06	Copper (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 - 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 - 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 - Reductions due to Options Implemented - Good operator practice or training

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
NA - 05	Cobalt (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 - 05	Cobalt (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 - 05	Cobalt (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 - 05	Cobalt (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 - 05	Cobalt (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 - 05	Cobalt (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 - 05	Cobalt (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 - 05	Cobalt (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 - 05	Cobalt (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 - 05	Cobalt (and its compounds)	No		
NA - 06	Copper (and its compounds)	No		
	Lead (and			

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 - 08	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 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 - 05	Cobalt (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 - 05	Cobalt (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 - 05	Cobalt (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 - 05	Cobalt (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 - 05	Cobalt (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 - 05	Cobalt (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 - 05	Cobalt (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 - 05	Cobalt (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 - 05	Cobalt (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 - 08	Lead (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.	

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 - 05	Cobalt (and its compounds)	No		
NA - 06	Copper (and its compounds)	No		
NA - 08	Lead (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

Hammond Manufacturing Co Ltd.

Certifying Official (or authorized delegate)

Rob Hammond

Report Submitted by

Rob Hammond

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 03/06/2019, I, Rob Hammond, 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 - 05

Cobalt (and its compounds)

NA - 06

Copper (and its compounds)

NA - 08

Lead (and its compounds)

NA - 09

Manganese (and its compounds)

NA - 11

Nickel (and its compounds)

