

Toxics Reduction Act Public Annual Report Calendar Year 2017

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|--|---|
| The legal and trade names of the owner and the operator of the facility, the street address of the facility and, if the mailing address of the facility is different from the street address, the mailing address. (See below) | Niagara Investment Castings division of ASAHI Refining Canada Ltd. 16 Smith Street, St Catharines Ontario L2P 3J1 |
| Facility NPRI identification number | 5761 |
| The identification number assigned to the facility by the Ministry of the Environment for the purposes of Ontario Regulation 127/01. | --- |
| Number of full-time employees | 53 |
| North American Industry Classification System (NAICS) - 2, 4, and 6-digit codes | 31 - 33 Manufacturing 3315 - Foundries 331514 - Steel Foundries |
| If applicable, the name, position and telephone number of the individual who is the contact at the facility for the public: Public Contact (if applicable) | Nancy Cardwell |
| Title | EHSS Coordinator |
| Phone Number | (905) 682-9258 ext 238 |
| Address of each person below if not the same as the facility | |
| Facility Name | Niagara Investment Castings division of ASAHI Refining Canada Ltd. |
| Address 1 | 16 Smith Street |
| Address 2 | |
| City | St. Catharines |
| Province | ON |
| Postal Code | L2P 3J1 |
| UTM Zone | 17 |
| UTM Easting | 644977 |
| UTM Northing | 6780885 |
| Legal name of Canadian parent company, if your facility is a subsidiary of a Canadian parent company | |
| Parent company name | Niagara Investment Castings division of ASAHI Refining Canada Ltd. |
| Address 1 | 16 Smith Street |
| Address 2 | |
| City | St. Catharines |
| Province | ON |
| Postal Code | L2P 3J1 |
| Percent Ownership | 100% |

| | | |
|---|------------------------------|--------|
| Substance: | Chromium (and its compounds) | |
| CAS Number: | NA-04 | |
| On a facility-wide basis: | Amount | Units |
| Amount that entered the facility as the substance itself or as a constituent of another substance: | > 10 to 100 | tonnes |
| The amount of substance that was created: | 0.000 | tonnes |
| The amount of substance that was contained in product: | > 10 to 100 | tonnes |
| On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en | | |

| | | |
|---|----------------------------|-------|
| Substance: | Cobalt (and its compounds) | |
| CAS Number: | NA-05 | |
| On a facility-wide basis: | Amount | Units |
| Amount that entered the facility as the substance itself or as a constituent of another substance: | > 1,000 to 10,000 | kg |
| The amount of substance that was created: | 0.000 | kg |
| The amount of substance that was contained in product: | > 1,000 to 10,000 | kg |
| On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en | | |

| | | |
|---|----------------------------|--------|
| Substance: | Copper (and its compounds) | |
| CAS Number: | NA-06 | |
| On a facility-wide basis: | Amount | Units |
| Amount that entered the facility as the substance itself or as a constituent of another substance: | > 10 to 100 | tonnes |
| The amount of substance that was created: | 0.000 | tonnes |
| The amount of substance that was contained in product: | > 10 to 100 | tonnes |
| On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en | | |

| | | |
|---|--------------------------|-------|
| Substance: | Lead (and its compounds) | |
| CAS Number: | NA-08 | |
| On a facility-wide basis: | Amount | Units |
| Amount that entered the facility as the substance itself or as a constituent of another substance: | > 1,000 to 10,000 | kg |
| The amount of substance that was created: | 0.000 | kg |
| The amount of substance that was contained in product: | > 1,000 to 10,000 | kg |
| On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en | | |

| | | | |
|---|----------------------------|--------|--|
| Substance: | Nickel (and its compounds) | | |
| CAS Number: | NA-11 | | |
| On a facility-wide basis: | Amount | Units | |
| Amount that entered the facility as the substance itself or as a constituent of another substance: | > 10 to 100 | tonnes | |
| The amount of substance that was created: | 0.000 | tonnes | |
| The amount of substance that was contained in product: | > 10 to 100 | tonnes | |
| On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en | | | |

| | | | |
|---|--|--------|--|
| Substance: | Particulate Matter less than or equal to 10 microns (PM10) | | |
| CAS Number: | NA-M09 | | |
| On a facility-wide basis: | Amount | Units | |
| Amount that entered the facility as the substance itself or as a constituent of another substance: | 0.000 | tonnes | |
| The amount of substance that was created: | > 0 to 1 | tonnes | |
| The amount of substance that was contained in product: | 0.000 | tonnes | |
| On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en | | | |

| | | | |
|---|--|--------|--|
| Substance: | Particulate Matter less than or equal to 2.5 microns (PM2.5) | | |
| CAS Number: | NA-M10 | | |
| On a facility-wide basis: | Amount | Units | |
| Amount that entered the facility as the substance itself or as a constituent of another substance: | 0.000 | tonnes | |
| The amount of substance that was created: | > 0 to 1 | tonnes | |
| The amount of substance that was contained in product: | 0.000 | tonnes | |
| On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en | | | |

Comparison of Annual Reported Amounts

| | | | | |
|---|------------------------------|-------------|-------------|-------|
| Substance: | Chromium (and its compounds) | | | |
| CAS Number: | NA-04 | | | |
| On a facility-wide basis: | 2017 | 2016 | Difference | |
| Amount that entered the facility as the substance itself or as a constituent of another substance: | tonnes | tonnes | tonnes | % |
| The amount of substance that was created: | > 10 to 100 | > 10 to 100 | > 10 to 100 | 58.21 |
| The amount of substance that was contained in product: | 0.000 | 0.000 | 0.00 | 0% |
| | > 10 to 100 | > 10 to 100 | > 10 to 100 | 58.67 |
| On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en | | | | |

| | | | | |
|---|----------------------------|-------------------|----------------|--------|
| Substance: | Cobalt (and its compounds) | | | |
| CAS Number: | NA-05 | | | |
| On a facility-wide basis: | 2017 | 2016 | Difference | |
| Amount that entered the facility as the substance itself or as a constituent of another substance: | kg | kg | kg | % |
| The amount of substance that was created: | > 1,000 to 10,000 | > 1,000 to 10,000 | > 100 to 1,000 | -22.61 |
| The amount of substance that was contained in product: | 0.000 | 0.000 | 0.00 | 50 |
| | > 1,000 to 10,000 | > 1,000 to 10,000 | > 100 to 1,000 | -23.77 |
| On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching\for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en | | | | |

| | | | | |
|---|----------------------------|-------------|------------|--------|
| Substance: | Copper (and its compounds) | | | |
| CAS Number: | NA-06 | | | |
| On a facility-wide basis: | 2017 | 2016 | Difference | |
| Amount that entered the facility as the substance itself or as a constituent of another substance: | tonnes | tonnes | tonnes | % |
| The amount of substance that was created: | > 10 to 100 | > 10 to 100 | > 1 to 10 | -13.61 |
| The amount of substance that was contained in product: | 0.000 | 0.000 | 0.00 | 0% |
| | > 10 to 100 | > 10 to 100 | > 1 to 10 | -3.69 |
| On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching\for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en | | | | |

| | | | | |
|---|--------------------------|-------------------|----------------|--------|
| Substance: | Lead (and its compounds) | | | |
| CAS Number: | NA-08 | | | |
| On a facility-wide basis: | 2017 | 2016 | Difference | |
| Amount that entered the facility as the substance itself or as a constituent of another substance: | kg | kg | kg | % |
| The amount of substance that was created: | > 1,000 to 10,000 | > 1,000 to 10,000 | > 100 to 1,000 | -15.79 |
| The amount of substance that was contained in product: | 0.000 | 0.000 | 0.00 | 0% |
| | > 1,000 to 10,000 | > 1,000 to 10,000 | > 100 to 1,000 | -7.87 |
| On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching\for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en | | | | |

| | | | | |
|---|----------------------------|-------------|------------|-------|
| Substance: | Nickel (and its compounds) | | | |
| CAS Number: | NA-11 | | | |
| On a facility-wide basis: | 2017 | 2016 | Difference | |
| Amount that entered the facility as the substance itself or as a constituent of another substance: | tonnes | tonnes | tonnes | % |
| The amount of substance that was created: | > 10 to 100 | > 10 to 100 | > 1 to 10 | 25.15 |
| The amount of substance that was contained in product: | 0.000 | 0.000 | 0.00 | 0% |
| | > 10 to 100 | > 10 to 100 | > 1 to 10 | 24.95 |
| On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching\for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en | | | | |

| | | | | |
|---|--|----------|------------|--------|
| Substance: | Particulate Matter less than or equal to 10 microns (PM10) | | | |
| CAS Number: | NA-M09 | | | |
| On a facility-wide basis: | 2017 | 2016 | Difference | |
| Amount that entered the facility as the substance itself or as a constituent of another substance: | tonnes | tonnes | tonnes | % |
| The amount of substance that was created: | 0.000 | 0.000 | 0.000 | 0% |
| The amount of substance that was contained in product: | > 0 to 1 | > 0 to 1 | > 0 to 1 | 120.39 |
| | 0.000 | 0.000 | 0.000 | -0% |
| On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en | | | | |

| | | | | |
|---|--|----------|------------|--------|
| Substance: | Particulate Matter less than or equal to 2.5 microns (PM2.5) | | | |
| CAS Number: | NA-M10 | | | |
| On a facility-wide basis: | 2017 | 2016 | Difference | |
| Amount that entered the facility as the substance itself or as a constituent of another substance: | tonnes | tonnes | tonnes | % |
| The amount of substance that was created: | 0.000 | 0.000 | 0.000 | 0% |
| The amount of substance that was contained in product: | > 0 to 1 | > 0 to 1 | > 0 to 1 | 120.42 |
| | 0.000 | 0.000 | 0.000 | -0% |
| On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en | | | | |

Annual Progress Report – Calendar 2017

Substances for which toxic substance reduction plans have been prepared:

| Substance Name | CAS # | Toxic Reduction Plan Date |
|--|-----------|---------------------------|
| Chromium and its compounds | NA-04 | December 21, 2012 |
| Copper and its compounds | NA-06 | December 21, 2012 |
| Lead and its compounds | NA-08 | December 21, 2012 |
| Nickel and its compounds | NA-11 | December 21, 2012 |
| Aluminum Oxide | 1344-28-1 | September 17, 2013* |
| Particulate Matter less than or equal to 10 microns (PM10) | NA-M09 | September 17, 2013 |
| Particulate Matter less than or equal to 2.5 microns (PM2.5) | NA-M10 | September 17, 2013 |
| Cobalt and its compounds** | NA-05 | September 18, 2017 |

* TRA Exit Record for 2013 reporting year (only non-fibrous form used)

Toxic Reduction Progress

The current reporting year saw increases for some substances primarily due to increase in the facility's production in 2017 for several materials due to material reformation.

Plan Implementation Progress

There were no reduction options identified in any of the plans for the above noted substances that were identified as being both technically and economically feasible. No additional actions outside the plans were taken in 2017 to reduce the use and/or creation for any of the reportable substances. No amendments were made to the toxic substances reduction plans in 2017.

ON MOE TRA - Electronic Certification Statement

Annual Report Certification Statement

As of 28/05/2018, I, John Pagnotta, 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 - 11 | Nickel (and its compounds) |
| NA - M09 | PM10 - Particulate Matter <= 10 Microns |
| NA - M10 | PM2.5 - Particulate Matter <= 2.5 Microns |

Company Name

Niagara Investment Castings (division of Asahi Refining Canada)

Highest Ranking Employee

John Pagnotta

Report Submitted by

John Pagnotta

Website address

www.niagarainvestmentcastings.com

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 |
|--------|-----------------|---|----------|----------------|------------------|
| 2017 | 28/05/2018 | Niagara Investment Castings (division of Asahi Refining Canada) | Ontario | St. Catharines | NPRI, ON MOE TRA |

Note: If there is a change in the contact information for the facility, a change in the owner or operator of the facility, if operations at the facility are terminated, or if information submitted for any previous year was mistaken or inaccurate, please update this information through SWIM or by contacting the National Pollutant Release Inventory directly.

Version: 3.14.0

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