

This Annual Toxic Substance Account Report has been prepared to meet the regulatory obligations specified under Section 10 for the Toxics Reduction Act and has been prepared in accordance with Section 27 (1) of Ontario Regulation 455/09, as amended from time to time. It summarizes the relevant public reporting requirements and will be updated, as required, by the Act and O.Reg. 455/09.

FACILITY INFORMATION

| | | | | |
|---|---|--------------------------------|---|--|
| Facility | Bath Cement Plant 6501 Highway 33 West Bath, Ontario K0H 1G0 | Facility Public Contact | Robert Cumming Director Environment, Eastern Canada 613-352-7711 x214 robert.cumming@lafarge.com | |
| Geographic Coordinates in UTM | 355400, 4892336, Zone 17 | | 6501 Highway 33 West | |
| NPRI Identification Number | 5850 | | Bath, Ontario K0H 1G0 | |
| North American Industry Classification System (NAICS) Code | 32 - Manufacturing 3273 - Cement and Concrete Product Manufacturing 327310 - Cement Manufacturing | Parent Company | Lafarge Canada Inc. 334 Avro Avenue Point Claire, QC H9R 5W5 | |
| Number of Full-time Employee Equivalents | 103 | | Ownership: 100% | |

TOXIC SUBSTANCE ACCOUNTING AND PLAN PROGRESS

| 2016 Toxic Substance Accounting - Whole Facility | | | | | | | | | | | |
|--|------------|--------|--------------------|------------------|----------------------|------------------|---------------|-----------------|--------------------------|---------------------------|----------|
| SOC | CAS | Units | Used | Created | Contained in Product | Air Release | Water Release | OnSite Disposal | Transferred for Disposal | Transferred For Recycling | Comments |
| Lead | NA-8 | kg | >10,000 to 100,000 | >0 to 1 | >10,000 to 100,000 | >10 to 100 | — | — | — | — | |
| Manganese | NA-9 | Tonnes | >1,000 to 10,000 | >0 to 1 | >1,000 to 10,000 | >0 to 1 | — | — | — | — | |
| Mercury | NA-10 | kg | >10 to 100 | >0 to 1 | >10 to 100 | >10 to 100 | — | — | — | — | |
| Selenium | NA-12 | kg | >100 to 1,000 | >0 to 1 | >100 to 1,000 | >1 to 10 | — | — | — | — | |
| Zinc | NA-14 | Tonnes | >100 to 1,000 | >0 to 1 | >100 to 1,000 | >0 to 1 | — | — | — | — | |
| Carbon monoxide | 630-08-0 | Tonnes | >0 to 1 | >100 to 1,000 | >0 to 1 | >100 to 1,000 | — | — | — | — | |
| Nitrogen oxides | 11104-93-1 | Tonnes | >0 to 1 | >1,000 to 10,000 | >0 to 1 | >1,000 to 10,000 | — | — | — | — | |
| Total Particulate Matter | NA-M08 | Tonnes | >0 to 1 | >100 to 1,000 | >0 to 1 | >100 to 1,000 | — | — | — | — | |
| PM10 - Particulate Matter <= 10 Microns | NA-M09 | Tonnes | >0 to 1 | >100 to 1,000 | >0 to 1 | >100 to 1,000 | — | — | — | — | |
| PM2.5 - Particulate Matter <= 2.5 Microns | NA-M10 | Tonnes | >0 to 1 | >10 to 100 | >0 to 1 | >10 to 100 | — | — | — | — | |
| Sulphur dioxide | 7446-09-5 | Tonnes | >0 to 1 | >100 to 1,000 | >0 to 1 | >100 to 1,000 | — | — | — | — | |



| Previous Year Data [2015] | | | | | | | | | | | |
|---|------------|--------|--------------------|------------------|----------------------|------------------|---------------|-----------------|--------------------------|---------------------------|----------|
| SOC | CAS | Units | Used | Created | Contained in Product | Air Release | Water Release | OnSite Disposal | Transferred for Disposal | Transferred For Recycling | Comments |
| Lead | NA-8 | kg | >10,000 to 100,000 | >0 to 1 | >10,000 to 100,000 | >1 to 10 | — | — | — | — | |
| Manganese | NA-9 | Tonnes | >1,000 to 10,000 | >0 to 1 | >1,000 to 10,000 | >0 to 1 | — | — | — | — | |
| Mercury | NA-10 | kg | >10 to 100 | >0 to 1 | >10 to 100 | >10 to 100 | — | — | — | — | |
| Selenium | NA-12 | kg | >100 to 1,000 | >0 to 1 | >100 to 1,000 | >1 to 10 | — | — | — | — | |
| Zinc | NA-14 | Tonnes | >100 to 1,000 | >0 to 1 | >100 to 1,000 | >0 to 1 | — | — | — | — | |
| Carbon monoxide | 630-08-0 | Tonnes | >0 to 1 | >100 to 1,000 | >0 to 1 | >100 to 1,000 | — | — | — | — | |
| Nitrogen oxides | 11104-93-1 | Tonnes | >0 to 1 | >1,000 to 10,000 | >0 to 1 | >1,000 to 10,000 | — | — | — | — | |
| Total Particulate Matter | NA-M08 | Tonnes | >0 to 1 | >100 to 1,000 | >0 to 1 | >100 to 1,000 | — | — | — | — | |
| PM10 - Particulate Matter <= 10 Microns | NA-M09 | Tonnes | >0 to 1 | >100 to 1,000 | >0 to 1 | >100 to 1,000 | — | — | — | — | |
| PM2.5 - Particulate Matter <= 2.5 Microns | NA-M10 | Tonnes | >0 to 1 | >10 to 100 | >0 to 1 | >10 to 100 | — | — | — | — | |
| Sulphur dioxide | 7446-09-5 | Tonnes | >0 to 1 | >100 to 1,000 | >0 to 1 | >100 to 1,000 | — | — | — | — | |

| Changes from Historic (%) | | | | | | | | | | | |
|---|------------|-------|------|---------|----------------------|-------------|---------------|-----------------|--------------------------|---------------------------|---------------------|
| SOC | CAS | Units | Used | Created | Contained in Product | Air Release | Water Release | OnSite Disposal | Transferred for Disposal | Transferred For Recycling | Comments |
| Lead | NA-8 | % | -21% | — | -20% | 0% | — | — | — | — | Decrease Production |
| Manganese | NA-9 | % | -8% | — | -7% | 1% | — | — | — | — | |
| Mercury | NA-10 | % | 0% | — | 0% | 0% | — | — | — | — | |
| Selenium | NA-12 | % | -6% | — | -6% | 0% | — | — | — | — | |
| Zinc | NA-14 | % | -23% | — | -23% | 0% | — | — | — | — | Decrease Production |
| Carbon monoxide | 630-08-0 | % | — | -1% | — | -1% | — | — | — | — | |
| Nitrogen oxides | 11104-93-1 | % | — | -2% | — | -2% | — | — | — | — | |
| Total Particulate Matter | NA-M08 | % | — | 1% | — | 1% | — | — | — | — | |
| PM10 - Particulate Matter <= 10 Microns | NA-M09 | % | — | 1% | — | 1% | — | — | — | — | |
| PM2.5 - Particulate Matter <= 2.5 Microns | NA-M10 | % | — | 0% | — | 0% | — | — | — | — | |
| Sulphur dioxide | 7446-09-5 | % | — | -26% | — | -26% | — | — | — | — | |



| Changes from Historic [Absolute Values] | | | | | | | | | | | |
|---|------------|--------|----------|---------|----------------------|-------------|---------------|-----------------|--------------------------|---------------------------|----------|
| SOC | | Units | Used | Created | Contained in Product | Air Release | Water Release | OnSite Disposal | Transferred for Disposal | Transferred For Recycling | Comments |
| Lead | NA-8 | kg | -9706.92 | 0.00 | -9695.61 | 0.03 | — | — | — | — | |
| Manganese | NA-9 | Tonnes | -118.09 | 0.00 | -117.54 | 0.00 | — | — | — | — | |
| Mercury | NA-10 | kg | -0.02 | 0.00 | 0.01 | 0.01 | — | — | — | — | |
| Selenium | NA-12 | kg | -56.63 | 0.00 | -55.59 | 0.00 | — | — | — | — | |
| Zinc | NA-14 | Tonnes | -112.89 | 0.00 | -112.86 | 0.00 | — | — | — | — | |
| Carbon monoxide | 630-08-0 | Tonnes | 0.00 | -1.77 | -28.00 | -1.77 | — | — | — | — | |
| Nitrogen oxides | 11104-93-1 | Tonnes | 0.00 | -82.45 | 0.00 | -82.45 | — | — | — | — | |
| Total Particulate Matter | NA-M08 | Tonnes | 0.00 | 1.86 | 0.00 | 1.86 | — | — | — | — | |
| PM10 - Particulate Matter <= 10 Microns | NA-M09 | Tonnes | 0.00 | 1.11 | 0.00 | 1.11 | — | — | — | — | |
| PM2.5 - Particulate Matter <= 2.5 Microns | NA-M10 | Tonnes | 0.00 | 0.47 | 0.00 | 0.47 | — | — | — | — | |
| Sulphur dioxide | 7446-09-5 | Tonnes | 0.00 | -116.06 | 0.00 | -116.06 | — | — | — | — | |

| Substance Name | CAS # | Toxic Substance Reduction Plan Date | Website Posted |
|---|------------|-------------------------------------|---|
| Lead | NA-8 | 20-Dec-13 | http://www.bathcementplant.com/publication/all/282 |
| Manganese | NA-9 | 20-Dec-13 | http://www.bathcementplant.com/publication/all/282 |
| Mercury | NA-10 | 20-Dec-13 | http://www.bathcementplant.com/publication/all/283 |
| Selenium | NA-12 | 20-Dec-13 | http://www.bathcementplant.com/publication/all/284 |
| Zinc | NA-14 | 20-Dec-13 | http://www.bathcementplant.com/publication/all/285 |
| Carbon monoxide | 630-08-0 | 20-Dec-13 | http://www.bathcementplant.com/publication/all/286 |
| Nitrogen oxides | 11104-93-1 | 20-Dec-13 | http://www.bathcementplant.com/publication/all/287 |
| Total Particulate Matter | NA-M08 | 20-Dec-13 | http://www.bathcementplant.com/publication/all/288 |
| PM10 - Particulate Matter <= 10 Microns | NA-M09 | 20-Dec-13 | http://www.bathcementplant.com/publication/all/289 |
| PM2.5 - Particulate Matter <= 2.5 Microns | NA-M10 | 20-Dec-13 | http://www.bathcementplant.com/publication/all/290 |
| Selenium | NA-12 | 18-Dec-15 | http://www.bathcementplant.com/publication/all/ |

OBJECTIVES AND TARGETS OF ORIGINAL PLAN

There were no reduction options identified in any of the plans of the above noted substances that were identified as being both technically and economically feasible.

No additional actions were taken during the year to reduce the use and/or creation of any of the reportable substances.

No other amendments were made to the original plans.

TOXIC REDUCTION PROGRESS

The 2016 reporting year saw changes (increase/decrease) for some substances due to production level changes and fuel composition

STATEMENT OF CERTIFICATION

Annual Report Certification Statement

As of 29/05/2017, I, Robert Cumming, 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

630-08-0

Carbon monoxide

NA - 08

Lead (and its compounds)

NA - 09

Manganese (and its compounds)

NA - 10

Mercury (and its compounds)

11104-93-1

Nitrogen oxides (expressed as NO₂)

NA - M09

PM10 - Particulate Matter

NA - M10

PM2.5 - Particulate Matter

NA - 12

Selenium (and its compounds)

7446-09-5

Sulphur dioxide

NA - M08

Total Particulate Matter

NA - 14

Zinc (and its compounds)

Company Name

Lafarge Canada Inc.

Highest Ranking Employee

Robert Cumming

Report Submitted by

Robert Cumming

Website address

www.bathcementplant.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