NALCO CANADA CO. BURLINGTON FACILITY –
TOXICS REDUCTION PLAN SUMMARY AND 2018 ANNUAL REPORT

INTRODUCTION

The following Toxics Reduction Plans were prepared to meet the requirements of the Ontario Toxic Reduction Act (2009) (TRA) and Ontario Regulation 455/09 for the Nalco Canada Co. (Nalco) facility located at 1055 Truman Street in Burlington, Ontario. The subject toxic substances of this plan summary and 2018 annual report are:

- Acrylamide (CAS 79-06-1): It was contained in raw materials processed and used in the facility as product components. The substance met the 2011 NPRI reporting threshold and a toxics reduction plan was developed in 2012.
- Sulfuric acid (CAS 7664-93-9): It was used in the facility in the production stage as a composition of the final products. It was also used in the facility manufacturing processes and effluent treatment system to adjust pH level. The substance met the 2011 NPRI reporting threshold and a toxics reduction plan was developed in 2012.
- Isopropyl alcohol (CAS 67-63-0): It was contained in two raw materials used and processed at the facility as part of a formula contained in the final products. It usage met the 2012 NPRI reporting threshold and a toxics reduction plan was developed in 2013.
- Nonylphenol and ethoxylates (CAS 9016-45-9): It was as a composition of the final products required by the product specification. Most of nonylphenol and ethoxylates processed onsite are contained in the final products. The substance met the 2012 NPRI reporting threshold and a toxics reduction plan was developed in 2013.
- Total phosphorus: It was used in the facility in the production stage as an intermediate and composition of the final products as required by the product specification. The majority of phosphorus is contained in the final products. The substance met the 2012 NPRI reporting threshold and a toxics reduction plan was developed in 2013.
- Sodium nitrite (CAS 7632-00-0): It was contained in one raw material processed and used in the facility as product components. The substance met the 2012 NPRI reporting threshold and a toxics reduction plan was developed in 2013.
- Acrylic acid (CAS 79-10-7): It was contained in one of the raw material processed and used in the facility as a product component. The substance met the 2014 NPRI reporting threshold and a toxics reduction plan was developed in 2015.
- Zinc (and its compounds): It was contained in one raw material processed and used in the facility as product components. The substance met the 2015 NPRI reporting threshold and a toxics reduction plan was developed in 2016.
- Diethanolamine (CAS 111-42-2): It was contained in two raw materials processed and used in the facility as product components. The substance met the 2017 NPRI reporting threshold and a toxics reduction plan was developed in 2018.

The above toxics reduction plans were prepared and certified by Ruoou (Boris) Chen (License No. TSRP0239) from Stantec Consulting Ltd. and the highest ranking employee of the Nalco facility. During the year 2018, some of the above substances did not meet the NPRI reporting thresholds, and they were therefore not addressed in the 2018 NPRI and toxics reduction reporting as discussed below.

BASIC FACILITY INFORMATION

Facility Information	
Company Name:	Nalco Canada Co.
Facility Name:	Nalco Canada Co. - Burlington
NPRI Identification Number:	1668
Ontario MOE Identification Number:	n/a
NAICS 2 Code:	31-33 - Manufacturing
NAICS 4 Code:	3259 - Other Chemical Product Manufacturing
NAICS 6 Code:	325999 - All Other Miscellaneous Chemical Product Manufacturing
Number of Full-time Employees:	75
UTM Spatial Coordinates (NAD83):	
Zone:	17
UTM Spatial Coordinates (NAD83):	Latitude: 43.3428; Longitude: -79.8175
Datum:	1983

Owner and Operator of the Facility	
Name:	Nalco Canada Co.
Address:	1055 Truman Street, Burlington, ON L7R3Y9

Highest Ranking Employee	
Name:	Steve Narasnek
Title:	Plant Manager
Address:	1055 Truman Street, Burlington, ON L7R3Y9
Phone Number:	905-633-1050
E-mail:	snarasnek@nalco.com

Public Contact	
Name:	Steve Narasnek
Position	Plant Manager
Address	1055 Truman Street, Burlington, ON L7R3Y9
Phone Number:	905-633-1050
Fax Number:	905-633-1197
E-mail:	snarasnek@nalco.com

QUANTITY OF SUBJECT SUBSTANCES USED AT THE FACILITY

Substance	CAS	2017 Quantity Entered to Plant[1] (tonne)	2018 Quantity Entered to Plant [1] (tonne)	Change % (increase)	Reason of Changes
Acrylamide	79-06-1	643.072	1,197.669	86.2%	Note 3
Sulfuric acid	7664-93-9	Note 2	Note 2	N/A	Note 2
Isopropyl alcohol	67-63-0	13.225	12.504	-5.5%	Note 3
Nonylphenol and ethoxylates	9016-45-9	7.194	11.990	66.7%	Note 3
Total phosphorus	N/A	29.537	33.645	13.9%	Note 3
Sodium nitrite	7632-00-0	Note 2	Note 2	N/A	Note 2
Acrylic acid	79-10-7	Note 2	Note 2	N/A	Note 2
Zinc	N/A	Note 2	Note 2	N/A	Note 2
Diethanolamine	111-42-2	43.909	20.351	-53.7%	Note 3

Notes:

1. The amounts were quantities entered to the facility being used/processed. They were not created onsite.

2. The MPO (manufactured, processed and otherwise used) quantity of this substance was below the reporting threshold in the year. It was therefore not reported.

3. The usage changes for these substances in 2018 was due to production changes and products requirements.

4. First year reporting or where previous year was not reported.

COMPANY'S ENVIRONMENTAL INTENT AND OBJECTIVES

Nalco has taken proactive initiatives to effectively use and reduce the loss of toxic substance through process modification, spill/leakage prevention, onsite reuse, inventory management systems and specific training programs (discussed in each plan). The facility has detailed material storage, handling and monitoring procedures to prevent the loss of the substances used onsite.

Based on the nature of the facility operation (the subject substances are used as part of the final product formula as required by the market), no further toxics reduction options have been identified as feasible for the facility. Therefore, the facility does not plan to implement toxics reduction options additional to the practices that the facility is performing as part of their best practices and continuing improvement programs. The facility does not create these subject substances onsite and the plans did not address reducing their creation.

Nalco continues to be committed to playing a leadership role in protecting the environment. The company will continue to apply the industrial sector best practices and continuous improvement strategies to reduce the use and minimize the release/leak of the of the subject toxic substance. Toxics use reduction will be an ongoing effort for Nalco.

Certification of each plan is provided previous plan summaries. This plan summary is accurate, and reflects the current version of the toxics reduction plans for the subject substances.