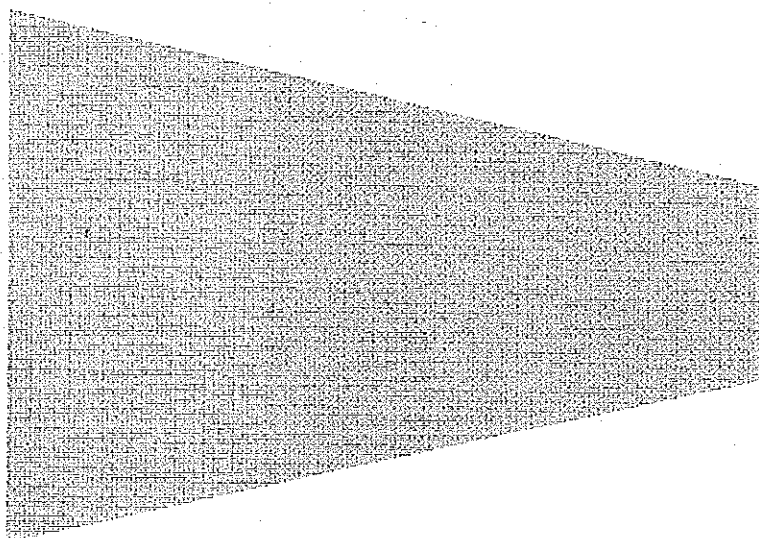




# Toxic Substance Reduction Plan Summary

Facility	Corvex Manufacturing
Address	12 Independence Place
City	Guelph
Postal Code	N1K 1H8



2012

TRP Reporting year - 2012

1. Identification of Toxics Reduction Act Applicable Substances

Substance	CAS #
Chromium	7440-47-3
Copper	7440-50-8
Substances for which other plans have been prepared	Nickel, Manganese
Reason for Use	Substances are sub-components within metal castings machined within Corvex
Reasons for Creation	These substances are not created at Corvex
Reasons for creation – summary statement	N/A

2. Facility Information

Company Name	Linamar Corporation
Facility Name	Corvex Manufacturing
Facility Address	12 Independence Place Guelph, ON N1K 1H8
Spatial Coordinates of Facility	Northing: 4820281.309 Eastling: 556559.962
Employee Count	~187
NPRI ID	7259
2 Digit NAICS Code	33
4 Digit NAICS Code	3363
6 Digit NAICS Code	336390

3. Parent Company Information

Name and Address	Linamar Corporation 287 Speedvale Ave. West Guelph, ON N1K 1C5
Percent Ownership	100%
Business Number	103333662

4. Facility Contact Information

Public Contact	John Graham – General Manager
Phone	519 763 7786 – ext 600
Technical Contact	Jeff King – EHS Specialist
Phone	519 763 7786 – ext 253

5. Toxic Reduction Planner

Melissa Gould	License # - TSRP0259
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## Statement of Intent

Corvex Mfg. is committed to playing a leadership role in protecting the environment. Where feasible, Corvex will minimize or eliminate the use of identified toxic materials in full compliance with all applicable Federal and Provincial Regulations.

## Plan Objectives

The objective of this plan is to determine opportunities that may be available and which are technically and economically feasible to reduce the use of identified toxic substances.

## Description of Substances

The prescribed toxic substances – Chromium and Copper, are constituents of raw materials purchased and received at Corvex in the form of automotive casting. Corvex machines the casting according to customer specifications. The finished product is shipped to the customer and 100% of waste products in the form of metal 'chips' or scrap castings are sent off-site for recycling.

## Plan Summary Statement

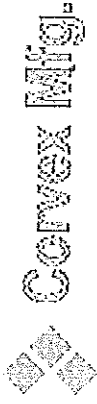
This summary reflects the content of the Toxic Substance Reduction plans for Corvex Mfg for the above identified substances: CHROMIUM and COPPER found in the metal castings machined at our facility.

## Reduction Opportunities

- Where practicable use 'scrap' castings for machine set-up purposes. Estimates suggest an over-all reduction of scrap castings of 5 – 7%. Target implementation date – 31-Dec-2012
- Inventory Management. Through implementation of a more rigorous inventory management system it is estimated there will be a reduction of as much as 15% in the use of raw castings and subsequently the identified toxic compounds. Target implementation date – 31-Dec-2012.
- Employee training. Training will assist in reducing scrap and ensuring that recyclable materials are fully captured and placed in the proper bin for shipment to off-site recyclers. Implementation is on-going and continuous.

## Reduction Options to be Implemented

Corvex has a firm commitment to protection of the Environment coupled with a strong culture of continuous improvement resulting in a lean and efficient manufacturing facility. This, coupled with the acknowledgement that the customer provides the specifications for the raw material process assures us that there are no additional opportunities for reduction at this time.



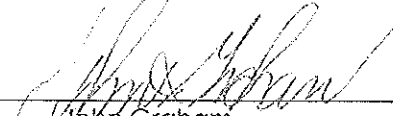
Toxic Substance Reduction Options and estimated reductions

Compound	CAS #	Amount Used	Amount Created	On-site releases (air, water, land)	Amount Disposed (on-site, off-site)	Amount Transferred off-site for recycling (tonnes)
Copper	7440-50-8	378.147	N/A	N/A	N/A	4,305
Chromium	7440-47-3	33.203	N/A	N/A	N/A	8,301
Reduction in scrap castings initiatives (5 - 7%)						
Copper 5% reduction		359.24	N/A	N/A	N/A	
Copper 7% reduction	7440-50-8	351.68	N/A	N/A	N/A	
Chromium 5% Reduction		34.54	N/A	N/A	N/A	
Chromium 7% reduction	7440-47-3	30.88	N/A	N/A	N/A	
Reduction through inventory management practices (15%)						
Copper	7440-50-8	321.42	N/A	N/A	N/A	
Chromium	7440-47-3	28.22	N/A	N/A	N/A	
Projected timeline for reduction option: 12 months						

#### CERTIFICATION BY HIGHEST RANKING EMPLOYEE

As of 10-June-14, I John Graham certify that I have read the toxic substance reduction plan for the substances referred to below and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 made under the act.

Substances for which this plan applies: Chromium; Copper

  
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John Graham  
General Manager  
Corvex Manufacturing

#### CERTIFICATION BY LICENSED PLANNER

As of 10-June-14, I, Melissa Gould, certify that I am familiar with the processes at Corvex Manufacturing that use or create the toxic substance referred to below and that I agree with the estimates referred to in subparagraph 7iii, iv, and v of subsection 4 (1) of the Toxics Reduction Act, 2009 that are set out in the plan dated 10-June-14 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under the Act.

Substances for which this plan applies: Chromium; Copper

  
\_\_\_\_\_  
Melissa Gould  
Planner License # TSRP0259  
Melissa.gould@linamar.com