

Executive Summary

The CHEMFAB Industries Inc. facility is located at 466 Polymoore Drive in Corunna, Ontario.

The facility is located in an industrial zoned area. The facility operates a fabrication shop that produces custom piping systems primarily for the petroleum industry. The plant typically operates eight (8) hours/day and five (5) days/week.

This ESDMR was prepared to support an application for a Certificate of Approval and was prepared in accordance with Section 26 of O. Reg. 419/05. It was prepared using the MOE publications "Procedure for Preparing an Emission summary and Dispersion Modelling Report", July 2005 and "Air Dispersion Modelling Guideline for Ontario", July 2005.

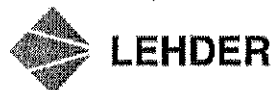
This most current version of the CHEMFAB Industries Inc. ESDMR addresses:

- Comfort Heating
- Plasma Cutting
- Welding

Section 18 of O. Reg. 419/05 applies to this facility. The maximum emission rates for each significant contaminant emitted from the significant sources were calculated in accordance with Section 11 of O. Reg. 419/05. An air quality dispersion modeling assessment was performed for this facility using the O.Reg 346 air dispersion model. Dispersion modeling has predicted that the simultaneous operation of all equipment described in the maximum operating scenario presented will be in compliance with the O.Reg. 419/05 Schedule 1 Standards and Guidelines as shown in the table below.

Contaminant	CAS #	½ hour Emission Rate (g/s)	MAXGLC POI Concentration (ug/m ³)	MOE POI Criteria (ug/m ³)	Limiting Effect	% of Criteria
PM - PARTICULATE MATTER	N/A - M08	0.1830	43.55	100	visibility	44%
IRON OXIDE	1332-37-2	0.1779	42.33	75	soiling	56%
MANGANESE COMPOUNDS(INCLUDING PERMANGANATES) ¹	7439-96-5	0.0017	0.40	7.5	health	5.4%
NICKEL (AND ITS COMPOUNDS EXCEPT NICKEL CARBONYL)	7440-02-0	0.0007	0.17	5	vegetation	3.5%
Chromite (chrome ore)	1308-31-2	0.0007	0.17	5	health	3.5%
VANADIUM (AND ITS COMPOUNDS)	7440-62-2	0.0001	0.03	5	health	0.70%

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COPPER (AND ITS COMPOUNDS)	7440-50-8	0.0007	0.17	100	health	0.17%
MOLYBDENUM ¹	7439-98-7	0.0003	0.07	100	particulate	0.07%

NOTES:

Iron Oxide is compared to the POI limit for Ferric Oxide

Chromite (chrome ore) is compared to the POI limit for chromium (di and tri valent forms)

¹ This contaminant is compared to the MOE Guideline

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