

Table 4
Emission Summary Table
F & P MFG Inc.
Tottenham, Ontario

Contaminant	CAS No.	Total Facility Emission Rate (g/s)	Air Dispersion Model Used	Max. POI Concentration (µg/m ³)	Averaging Period (hours)	MECP POI Limit ⁽¹⁾ (µg/m ³)	Limiting Effect	Regulation Schedule #	Percentage of MECP POI Limit
Particulate Matter	NA-1	2.08E-01	AERMOD v.22112	1.07E+01	24	120	Visibility	B1	9%
Iron	7439-89-6	2.00E-01	AERMOD v.22112	9.99E+00	24	25 (3)	Health	B1	40%
Manganese	7439-96-5	2.90E-03	AERMOD v.22112	2.01E-01	24	0.4	Health	B1	50%
Nickel	7440-02-0	2.96E-04	AERMOD v.22112	3.87E-03	annual	0.04	Health	B1	10%
Nickel	7440-02-0	2.96E-04	AERMOD v.22112	3.87E-03	annual	0.4	Health	AAV	<1%
Nickel	7440-02-0	2.96E-04	AERMOD v.22112	1.10E-01	24	2	URT	DAV	5%
Sulphur	7440-34-9	4.21E-05	AERMOD v.22112	2.08E-03	24	0.1	Deminimus	-	2%
Chromium	7440-47-3	2.81E-04	AERMOD v.22112	1.48E-02	24	0.5	Health	B1	3%
Chromium, hexavalent	18540-29-9	3.59E-06	AERMOD v.22112	4.83E-05	annual	0.00014	Health	B1	35%
Chromium, hexavalent	18540-29-9	3.59E-06	AERMOD v.22112	4.83E-05	annual	0.0014	Health	AAV	3%
Chromium, hexavalent	18540-29-9	3.59E-06	AERMOD v.22112	2.12E-04	24	0.07	URT	DAV	<1%
Nitrogen Oxides	10102-44-0	6.53E-01	AERMOD v.19191	1.22E+02	24	200	Health	B1	61%
Nitrogen Oxides	10102-44-0	6.53E-01	AERMOD v.19191	3.61E+02	1	400	Health	B1	90%
Nitrogen Oxides (Emergency)	10102-44-0	2.43E+00	AERMOD v.19191	1.51E+03	0.5	1880	-	-	80%
Potassium Hydroxide	1310-58-3	9.12E-03	AERMOD v.19191	1.11E+00	24	14	Corrosion	B1	8%
Sodium Hydroxide	1310-73-2	1.40E-03	AERMOD v.19191	1.71E-01	24	10	Corrosion	B1	2%
Butylcarbitol formal	143-29-3	1.05E-03	AERMOD v.19191	2.69E-01	24	7	Health	B2	4%
Dibutyl Tin Oxide	818-08-6	3.16E-03	AERMOD v.22112	8.07E-01	24	1	Health	-	81%
5-chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	9.11E-05	AERMOD v.19191	1.47E-02	24	0.5	Health	B2	3%
3(2H)-Isothiazolone, 2-methyl-	2682-20-4	3.04E-04	AERMOD v.19191	4.89E-02	24	0.5	Health	B2	10%

Notes:

(1) Schedule 3 Standard criteria listed in the MECP Air Contaminants Benchmarks (ACB) List: Standards, Guidelines, and Screening Levels for Assessing POI Concentrations of Air Contaminants dated April 2018.

(2) Compound does not have criteria listed in the MECP ACB List and cannot be screened as being emitted as negligible. A maximum ground level concentration request has been included in the ECA application.

(3) Iron emissions from welding are in the form of ferric oxide, therefore criteria for ferric (iron) oxide is used.

B1 - Benchmark 1 - Exceedance of a Benchmark 1 concentration triggers specific actions under the Regulation.

B2 - Benchmark 2 - Exceedance of a Benchmark 2 concentration triggers a toxicological assessment to determine the likelihood of adverse effect.