Table 4

Emission Summary Table
Ampacet Canada Company
101 Sasaga Drive, Kitchener, Ontario

Contaminant	CAS No.	Total Facility Emission Rate (g/s)	Air Dispersion Model Used	Maximum POI Concentration (µg/m^3)	MECP POI Limit [1],[2] (µg/m^3)	Averaging Period (hours)	Limiting Effect	Benchmark Category	Percentage of MECP POI Limit [3] (%)
Nitrogen Oxides	10102-44-0	4.23E-02	AERMOD v. 22112	7.69E+01	400	1-hr	Health	B1	19%
Nitrogen Oxides	10102-44-0	4.23E-02	AERMOD v. 22112	2.73E+01	200	24-hr	Health	B1	14%
Nitrogen Oxides	10102-44-0	4.57E-02	AERMOD v. 22112	1.03E+02	1,880	1/2-hr	-	Emergency	5%
Particulate Matter	NA-PM	6.51E-02	AERMOD v. 22112	3.82E+01	120	24-hr	Visibility	B1	32%
Chromium	7440-47-3	6.60E-05	AERMOD v. 22112	2.44E-02	0.5	24-hr	Health	B1	5%
Hexavalent Chromium (Annual)	18540-29-9 (Annual)	1.63E-07	AERMOD v. 22112	1.53E-05	0.00014	Annual	Health	B1	11%
Hexavalent Chromium (Annual)	18540-29-9 (Annual)	1.63E-07	AERMOD v. 22112	1.53E-05	0.0014	AAV	-	-	1%
Hexavalent Chromium (Daily)	18540-29-9 (Day)	5.93E-05	AERMOD v. 22112	2.09E-02	0.07	DAV	-	-	30%
Cobalt	7440-48-4	8.40E-05	AERMOD v. 22112	3.29E-02	0.1	24-hr	Health	B1	33%
Lead	7439-92-1	2.91E-04	AERMOD v. 22112	1.07E-01	0.5	24-hr	Health	B1	21%
Lead	7439-92-1	2.91E-04	AERMOD v. 22112	3.78E-02	0.2	30-day	Health	B1	19%
Nickel	7440-02-0	8.40E-05	AERMOD v. 22112	8.12E-03	0.04	Annual	Health	B1	20%
Nickel	7440-02-0	8.40E-05	AERMOD v. 22112	8.12E-03	0.4	AAV	-	-	2%
Nickel	7440-02-0	8.40E-05	AERMOD v. 22112	3.29E-02	2	DAV	-	-	2%
1,3-Di-phenylpropane	1335-47-3	3.50E-03	AERMOD v. 22112	9.43E-01	2.29 (4)	24-hr	-	-	41%
1,3-Di-phenylpropene	5209-18-7	3.18E-03	AERMOD v. 22112	8.57E-01	2.08 (4)	24-hr	-	-	41%
Acrolein	107-02-8	2.87E-04	AERMOD v. 22112	3.85E-01	4.5	1-hr	Health	B1	9%
Acrolein	107-02-8	2.87E-04	AERMOD v. 22112	8.81E-02	0.4	24-hr	Health	B1	22%
Acrylonitrile	107-13-1	5.94E-04	AERMOD v. 22112	1.77E-01	0.6	24-hr	Health	B1	30%
Benzaldehyde	100-52-7	1.81E-03	AERMOD v. 22112	5.55E-01	2	24-hr	Health	B2	28%
Butyraldehyde	123-72-8	1.16E-03	AERMOD v. 22112	3.54E-01	7	24-hr	Health	B2	5%
Caprolactam	105-60-2	6.78E-03	AERMOD v. 22112	1.98E+00	11	24-hr	Health	B2	18%
Ethyl-methylbenzene	25550-14-5	6.37E-03	AERMOD v. 22112	1.71E+00	2.9 (4)	24-hr	Health	B2	59%
Propionaldehyde	123-38-6	1.11E-03	AERMOD v. 22112	2.43E+00	10	10-minute	Odour	B1	24%
Styrene	100-42-5	1.66E-01	AERMOD v. 22112	4.46E+01	400	24-hr	Health	B1	11%
Styrene Dimer	25247-68-1	7.96E-02	AERMOD v. 22112	2.14E+01	67.8 (4)	24-hr	-	-	32%
Thirrane	420-12-2	6.25E-05	AERMOD v. 22112	1.86E-02	-	24-hr	-	-	19%
β-Methylstyrene	873-66-5	3.18E-03	AERMOD v. 22112	8.57E-01	2.08 (4)	24-hr	-	-	41%
Fatty acids, C8 – 18 unsat'd, zinc salts	67762-34-9	8.42E-05	AERMOD v. 22112	3.16E-02	-	24-hr	-	-	32%
Ethylene/hexene-1 copolymer	25213-02-9	4.48E-05	AERMOD v. 22112	2.19E-02	-	24-hr	-	-	22%
Flux-calcined diatomaceous earth	68855-54-9	4.56E-04	AERMOD v. 22112	1.72E-01	1	24-hr	Health	B2	17%
Zinc ferrite brown spinel	68187-51-9	1.16E-04	AERMOD v. 22112	4.94E-02	-	24-hr	-	-	49%
Cadmium and Cadmium Compounds	7440-43-9	4.21E-05	AERMOD v. 22112	1.65E-02	0.025	24-hr	Health	B1	66%
9,10-Anthracenedione, 1,4-bis[(2,4,6-trimethylphenyl)amino]-	116-75-6	2.46E-05	AERMOD v. 22112	1.39E-02	-	24-hr	-	-	14%
4,11-diamino-2-(3-methoxypropyl)-1H-naphth[2,3-f]isoindol-1,3,5,10(2H)-tetrone	12217-80-0	2.48E-05	AERMOD v. 22112	1.40E-02	-	24-hr	-	-	14%
Lead Chromate Molybdate Sulfate Red	12656-85-8	2.14E-04	AERMOD v. 22112	7.91E-02	-	24-hr	-	-	79%
Antimony trioxide	1309-64-4	4.37E-04	AERMOD v. 22112	1.60E-01	1	24-hr	Health	B2	16%
Silicon dioxide	7631-86-9	9.04E-04	AERMOD v. 22112	3.37E-01	5	24-hr	Health	B2	7%
Benzenesulfonic acid, 4-chloro-2-[[4,5-dihydro-3-methyl-5-oxo-1-(3-sulfophenyl)-1H-pyrazol-4-yl]azo]-5-methyl-, calcium salt (1:1)	129423-54-7	3.70E-05	AERMOD v. 22112	1.77E-02	-	24-hr	-	-	18%
Lead Sulfo Chromate Yellow	1344-37-2	2.45E-04	AERMOD v. 22112	8.59E-02	-	24-hr	-	-	86%
Butanedioic acid, 1,4−dimethyl ester, polymer with 4−hydroxy−2,2,6,6−tetramethyl−1−piperidineethanol	65447-77-0	8.60E-05	AERMOD v. 22112	3.20E-02	-	24-hr	-	-	32%
1,6-Hexanediamine, N,N'-bis(2,2,6,6-tetramethyl-4-piperidinyl)-, polymer with 2,4,6-trichloro-1,3,5-triazine, reaction products with 2,4,4-trimethyl-2-pentanamine	70624-18-9	1.98E-04	AERMOD v. 22112	7.36E-02	-	24-hr	-	-	74%
Phenol, 2,4-bis(1,1-dimethylethyl)-, phosphite (3:1)	31570-04-4	3.84E-05	AERMOD v. 22112	1.44E-02	-	24-hr	-	-	14%
Styrene-butadiene polymer	9003-55-8	5.03E-04	AERMOD v. 22112	1.81E-01	1	24-hr	Health	B2	18%
Ethylene-Methyl Acrylate Copolymer	25103-74-6	4.03E-05	AERMOD v. 22112	1.52E-02	-	24-hr	-	-	15%
Polyethylene Terephthalate	24938-04-3	1.82E-04	AERMOD v. 22112	6.89E-02	-	24-hr	-	-	69%
Alkenes, C20-24 .alpha.-, polymers with maleic anhydride, reaction products with 2,2,6,6-tetramethyl-4-piperidinamine	152261-33-1	1.80E-04	AERMOD v. 22112	6.82E-02	-	24-hr	-	-	68%

Notes:

(1) MECP POI Limit listed on the "Air Contaminants Benchmarks (ACB) List: Standards, Guidelines and Screening Levels for Assessing Point of Impingement Concentrations of Air Contaminants" dated November 2023.
(2) For contaminants without a MECP POI Limit. The maximum POI concentration is less than the MECP de minimus value of 0.1 µg/m^3. Therefore, the contaminant is insignificant.
(3) For the contaminants that do not have a MECP POI limit. The value listed in this column is a percentage of the maximum off-property concentration relative to the de minimus value of 0.1 µg/m^3.
(4) Maximum Ground Level Concentration as approved by the MOE for the Facility for ECA No. 3013-B2UJD5, issued September 26, 2018.