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# **M1 PACIFIC MOTORWAY REPLACEMENT AND WIDENING: TUGGERAH TO DOYALSON**

Appendix N – Air quality data

Review of environmental factors

MAY 2014

Annual Averages Time Range: 01/01/2013 00:00 to 01/01/2014 00:00						
Initial Data	NO2.AA1H	CO.AA1H	OZONE.AA1H	PM10.AA1H	PM2.5.AA1H	NEPH.AA1H
Station	NO2 annual average [pphm]	CO annual average [ppm]	OZONE annual average [pphm]	PM10 annual average [ $\mu\text{g}/\text{m}^3$ ]	PM2.5 annual average [ $\mu\text{g}/\text{m}^3$ ]	NEPH annual average [bsp]
Wyong	0.5	0.1	1.7	16.5	6.6	0.23

Substance	Source	Air (kg)	Land (kg)	Water (kg)	Total (kg)
Acetaldehyde	Total	61974.76014			61974.76014
Acetaldehyde	Solid fuel burning (domestic) [*]	32464.47219			32464.47219
Acetaldehyde	Motor Vehicles [*]	25431.85537			25431.85537
Acetaldehyde	Lawn Mowing (public open spaces) [*]	2756.630364			2756.630364
Acetaldehyde	Lawn Mowing [*]	718.8282351			718.8282351
Acetaldehyde	Commercial Shipping/Boating [*]	367.548335			367.548335
Acetic acid (ethanoic acid)	Total	716.0578936			716.0578936
Acetic acid (ethanoic acid)	Domestic/Commercial solvents/ aerosols [*]	401.1596693			401.1596693
Acetic acid (ethanoic acid)	Lawn Mowing [*]	156.4925534			156.4925534
Acetic acid (ethanoic acid)	Solid fuel burning (domestic) [*]	55.6472086			55.6472086
Acetic acid (ethanoic acid)	Recreational Boating [*]	50.99400037			50.99400037
Acetic acid (ethanoic acid)	Lawn Mowing (public open spaces) [*]	47.4921501			47.4921501
Acetone	Total	94143.7756			94143.7756
Acetone	Domestic/Commercial solvents/ aerosols [*]	34613.2926			34613.2926
Acetone	Architectural Surface Coatings [*]	24766.46963			24766.46963
Acetone	Solid fuel burning (domestic) [*]	24010.36679			24010.36679
Acetone	Motor Vehicles [*]	6699.418167			6699.418167
Acetone	Motor Vehicle Refinishing [*]	2882.98265			2882.98265
Acrylic acid	Total	194.0941831			194.0941831
Acrylic acid	Lawn Mowing [*]	96.49726942			96.49726942
Acrylic acid	Solid fuel burning (domestic) [*]	34.3082736			34.3082736
Acrylic acid	Recreational Boating [*]	31.45511695			31.45511695
Acrylic acid	Lawn Mowing (public open spaces) [*]	29.19782337			29.19782337
Acrylic acid	Commercial Shipping/Boating [*]	2.53942486			2.53942486
Acrylonitrile (2-propenenitrile)	Total	250.0855953			250.0855953
Acrylonitrile (2-propenenitrile)	Lawn Mowing [*]	124.3555035			124.3555035
Acrylonitrile (2-propenenitrile)	Solid fuel burning (domestic) [*]	44.22058108			44.22058108
Acrylonitrile (2-propenenitrile)	Recreational Boating [*]	40.42684997			40.42684997
Acrylonitrile (2-propenenitrile)	Lawn Mowing (public open spaces) [*]	37.69774503			37.69774503
Acrylonitrile (2-propenenitrile)	Commercial Shipping/Boating [*]	3.261156136			3.261156136
Aniline (benzenamine)	Total	340.6471366			340.6471366
Aniline (benzenamine)	Lawn Mowing [*]	169.3831571			169.3831571
Aniline (benzenamine)	Solid fuel burning (domestic) [*]	60.21775425			60.21775425
Aniline (benzenamine)	Recreational Boating [*]	55.14935252			55.14935252
Aniline (benzenamine)	Lawn Mowing (public open spaces) [*]	51.27761772			51.27761772
Aniline (benzenamine)	Commercial Shipping/Boating [*]	4.450676202			4.450676202
Antimony & compounds	Total	1.915875066			1.915875066
Antimony & compounds	Solid fuel burning (domestic) [*]	0.750638663			0.750638663
Antimony & compounds	Windblown Dust [*]	0.566137079			0.566137079
Antimony & compounds	Railways [*]	0.27284678			0.27284678
Antimony & compounds	Liquid fuel burning (domestic) [*]	0.258921081			0.258921081
Antimony & compounds	Commercial Shipping/Boating [*]	0.051991383			0.051991383
Arsenic & compounds	Total	12.85660705			12.85660705
Arsenic & compounds	Electricity Generation [261]	9.38			9.38
Arsenic & compounds	Windblown Dust [*]	1.217612535			1.217612535
Arsenic & compounds	Ceramic Product Manufacturing [202]	0.936			0.936
Arsenic & compounds	Solid fuel burning (domestic) [*]	0.506416665			0.506416665
Arsenic & compounds	Motor Vehicles [*]	0.491646322			0.491646322
Benzene	Total	96571.14495			96571.14495
Benzene	Motor Vehicles [*]	67923.2884			67923.2884
Benzene	Solid fuel burning (domestic) [*]	20794.56597			20794.56597
Benzene	Lawn Mowing [*]	3034.937332			3034.937332
Benzene	Lawn Mowing (public open spaces) [*]	1871.995284			1871.995284
Benzene	Service stations [*]	1373.195274			1373.195274
Beryllium & compounds	Total	3.358945995			3.358945995
Beryllium & compounds	Electricity Generation [261]	3.002			3.002
Beryllium & compounds	Commercial Shipping/Boating [*]	0.134990479			0.134990479
Beryllium & compounds	Ceramic Product Manufacturing [202]	0.118			0.118
Beryllium & compounds	Railways [*]	0.071749817			0.071749817
Beryllium & compounds	Solid fuel burning (domestic) [*]	0.009848449			0.009848449
Biphenyl (1,1-biphenyl)	Total	163.1054594			163.1054594
Biphenyl (1,1-biphenyl)	Solid fuel burning (domestic) [*]	129.310331			129.310331
Biphenyl (1,1-biphenyl)	Motor Vehicles [*]	30.24453713			30.24453713
Biphenyl (1,1-biphenyl)	Lawn Mowing [*]	2.143866288			2.143866288
Biphenyl (1,1-biphenyl)	Recreational Boating [*]	0.698178037			0.698178037
Biphenyl (1,1-biphenyl)	Lawn Mowing (public open spaces) [*]	0.650144216			0.650144216
Boron & compounds	Total	55065.99657	80.76685725		55146.76342
Boron & compounds	Electricity Generation [261]	55000			55000
Boron & compounds	Coal Mining [060]	0.720873334	80.76685725		81.48773058
Boron & compounds	Motor Vehicles [*]	65.27569302			65.27569302
1,3-Butadiene (vinyl ethylene)	Total	11075.06876			11075.06876
1,3-Butadiene (vinyl ethylene)	Motor Vehicles [*]	7454.331418			7454.331418
1,3-Butadiene (vinyl ethylene)	Burning(fuel red., regen., agric.)/ Wildfires [*]	1467.564706			1467.564706
1,3-Butadiene (vinyl ethylene)	Solid fuel burning (domestic) [*]	1063.965842			1063.965842
1,3-Butadiene (vinyl ethylene)	Lawn Mowing [*]	664.0341389			664.0341389
1,3-Butadiene (vinyl ethylene)	Lawn Mowing (public open spaces) [*]	219.5498081			219.5498081
Cadmium & compounds	Total	251.9685499			251.9685499
Cadmium & compounds	Motor Vehicles [*]	176.0372327			176.0372327
Cadmium & compounds	Burning(fuel red., regen., agric.)/ Wildfires [*]	66.55623154			66.55623154
Cadmium & compounds	Electricity Generation [261]	5.2			5.2
Cadmium & compounds	Windblown Dust [*]	2.019889969			2.019889969
Cadmium & compounds	Lawn Mowing (public open spaces) [*]	0.65989756			0.65989756
Carbon disulfide	Total	38.80403392			38.80403392

Carbon disulfide	Lawn Mowing [*]	19.29717629	19.29717629	
Carbon disulfide	Solid fuel burning (domestic) [*]	6.865012386	6.865012386	
Carbon disulfide	Recreational Boating [*]	6.271795103	6.271795103	
Carbon disulfide	Lawn Mowing (public open spaces) [*]	5.841882072	5.841882072	
Carbon disulfide	Commercial Shipping/Boating [*]	0.506548433	0.506548433	
Carbon monoxide	Total	2.25E+07	2.25E+07	
Carbon monoxide	Motor Vehicles [*]	1.66E+07	1.66E+07	74%
Carbon monoxide	Burning(fuel red., regen., agric.)/ Wildfires [*]	1727633.698	1727633.698	
Carbon monoxide	Lawn Mowing [*]	1406000.719	1406000.719	
Carbon monoxide	Solid fuel burning (domestic) [*]	1253694.394	1253694.394	
Carbon monoxide	Electricity Generation [261]	735538	735538	
Chlorine & compounds	Total	2785.644557	2785.644557	
Chlorine & compounds	Motor Vehicles [*]	1685.644557	1685.644557	
Chlorine & compounds	Electricity Generation [261]	1100	1100	
Chloroethane (ethyl chloride)	Total	676.3679587	676.3679587	
Chloroethane (ethyl chloride)	Architectural Surface Coatings [*]	551.3304979	551.3304979	
Chloroethane (ethyl chloride)	Lawn Mowing [*]	62.19709958	62.19709958	
Chloroethane (ethyl chloride)	Solid fuel burning (domestic) [*]	22.10347426	22.10347426	
Chloroethane (ethyl chloride)	Recreational Boating [*]	20.22693783	20.22693783	
Chloroethane (ethyl chloride)	Lawn Mowing (public open spaces) [*]	18.81748628	18.81748628	
Chloroform (trichloromethane)	Total	281.2188526	281.2188526	
Chloroform (trichloromethane)	Lawn Mowing [*]	109.356789	109.356789	
Chloroform (trichloromethane)	Domestic/Commercial solvents/ aerosols [*]	61.36392829	61.36392829	
Chloroform (trichloromethane)	Solid fuel burning (domestic) [*]	38.87335519	38.87335519	
Chloroform (trichloromethane)	Recreational Boating [*]	35.6104691	35.6104691	
Chloroform (trichloromethane)	Lawn Mowing (public open spaces) [*]	33.02963895	33.02963895	
Chromium (III) compounds	Total	127.4883751	0.344359083 127.8327342	
Chromium (III) compounds	Electricity Generation [261]	91.26	91.26	
Chromium (III) compounds	Windblown Dust [*]	19.02423751	19.02423751	
Chromium (III) compounds	Motor Vehicles [*]	4.378463995	4.378463995	
Chromium (III) compounds	Ceramic Product Manufacturing [202]	4.099	4.099	
Chromium (III) compounds	Burning(fuel red., regen., agric.)/ Wildfires [*]	3.038710986	3.038710986	
Chromium (VI) compounds	Total	9.889203566	9.889203566	
Chromium (VI) compounds	Electricity Generation [261]	5.01	5.01	
Chromium (VI) compounds	Burning(fuel red., regen., agric.)/ Wildfires [*]	1.259324442	1.259324442	
Chromium (VI) compounds	Lawn Mowing [*]	0.932320931	0.932320931	
Chromium (VI) compounds	Windblown Dust [*]	0.789176522	0.789176522	
Chromium (VI) compounds	Barbeques [*]	0.60820342	0.60820342	
Cobalt & compounds	Total	20.17928992	20.17928992	
Cobalt & compounds	Windblown Dust [*]	11.99283237	11.99283237	
Cobalt & compounds	Lawn Mowing [*]	3.17495553	3.17495553	
Cobalt & compounds	Recreational Boating [*]	1.630835087	1.630835087	
Cobalt & compounds	Lawn Mowing (public open spaces) [*]	1.371700462	1.371700462	
Cobalt & compounds	Barbeques [*]	1.081025137	1.081025137	
Copper & compounds	Total	44.43399226	44.43399226	
Copper & compounds	Electricity Generation [261]	16.17	16.17	
Copper & compounds	Motor Vehicles [*]	7.957567422	7.957567422	
Copper & compounds	Windblown Dust [*]	7.025526363	7.025526363	
Copper & compounds	Burning(fuel red., regen., agric.)/ Wildfires [*]	4.296196044	4.296196044	
Copper & compounds	Lawn Mowing [*]	3.17495553	3.17495553	
Cumene (1-methylethylbenzene)	Total	135.6460763	135.6460763	
Cumene (1-methylethylbenzene)	Service stations [*]	134.6648385	134.6648385	
Cumene (1-methylethylbenzene)	Dry Cleaning [*]	0.98123784	0.98123784	
Cyanide (inorganic) compounds	Total	0.125918479	0.125918479	
Cyanide (inorganic) compounds	Solid fuel burning (domestic) [*]	0.079421616	0.079421616	
Cyanide (inorganic) compounds	Barbeques [*]	0.046496864	0.046496864	
Cyclohexane	Total	12799.47591	12799.47591	
Cyclohexane	Motor Vehicles [*]	5241.126562	5241.126562	
Cyclohexane	Lawn Mowing [*]	2398.775519	2398.775519	
Cyclohexane	Print Shops / Graphic Arts [*]	2390	2390	
Cyclohexane	Recreational Boating [*]	778.790707	778.790707	
Cyclohexane	Lawn Mowing (public open spaces) [*]	735.606912	735.606912	
Di-(2-Ethylhexyl) phthalate (DEHP)	Total	0.003677866	0.003677866	
Di-(2-Ethylhexyl) phthalate (DEHP)	Solid fuel burning (domestic) [*]	0.002320182	0.002320182	
Di-(2-Ethylhexyl) phthalate (DEHP)	Barbeques [*]	0.001357684	0.001357684	
1,2-Dibromoethane	Total	1800.316396	1800.316396	
1,2-Dibromoethane	Architectural Surface Coatings [*]	1003.765191	1003.765191	
1,2-Dibromoethane	Motor Vehicle Refinishing [*]	615.471084	615.471084	
1,2-Dibromoethane	Lawn Mowing [*]	90.09887726	90.09887726	
1,2-Dibromoethane	Solid fuel burning (domestic) [*]	32.01831856	32.01831856	
1,2-Dibromoethane	Recreational Boating [*]	29.22569654	29.22569654	
Dibutyl phthalate	Total	5237.248169	5237.248169	
Dibutyl phthalate	Print Shops / Graphic Arts [*]	5220	5220	
Dibutyl phthalate	Lawn Mowing [*]	8.575963901	8.575963901	
Dibutyl phthalate	Solid fuel burning (domestic) [*]	3.049013231	3.049013231	
Dibutyl phthalate	Recreational Boating [*]	2.798781921	2.798781921	
Dibutyl phthalate	Lawn Mowing (public open spaces) [*]	2.590002294	2.590002294	
1,2-Dichloroethane	Total	250.0874668	250.0874668	
1,2-Dichloroethane	Lawn Mowing [*]	124.3555035	124.3555035	
1,2-Dichloroethane	Solid fuel burning (domestic) [*]	44.22058108	44.22058108	
1,2-Dichloroethane	Recreational Boating [*]	40.42684997	40.42684997	
1,2-Dichloroethane	Lawn Mowing (public open spaces) [*]	37.69774503	37.69774503	
1,2-Dichloroethane	Commercial Shipping/Boating [*]	3.261156136	3.261156136	
Dichloromethane	Total	9602.118727	9602.118727	

Dichloromethane	Architectural Surface Coatings [*]	6254.837786	6254.837786
Dichloromethane	Domestic/Commercial solvents/ aerosols [*]	2255.344937	2255.344937
Dichloromethane	Motor Vehicle Refinishing [*]	825.720239	825.720239
Dichloromethane	Lawn Mowing [*]	160.8110148	160.8110148
Dichloromethane	Recreational Boating [*]	52.37010919	52.37010919
Ethanol	Total	427676.9844	427676.9844
Ethanol	Domestic/Commercial solvents/ aerosols [*]	189950.8369	189950.8369
Ethanol	Solid fuel burning (domestic) [*]	117191.4879	117191.4879
Ethanol	Motor Vehicles [*]	112559.8087	112559.8087
Ethanol	Architectural Surface Coatings [*]	5517.70313	5517.70313
Ethanol	Beverage Manufacturing [121]	941	941
2-Ethoxyethanol	Total	223.2610848	223.2610848
2-Ethoxyethanol	Lawn Mowing [*]	77.19147631	77.19147631
2-Ethoxyethanol	Domestic/Commercial solvents/ aerosols [*]	68.08165113	68.08165113
2-Ethoxyethanol	Solid fuel burning (domestic) [*]	27.43760367	27.43760367
2-Ethoxyethanol	Recreational Boating [*]	25.07034439	25.07034439
2-Ethoxyethanol	Lawn Mowing (public open spaces) [*]	23.37163442	23.37163442
2-Ethoxyethanol acetate	Total	166.5304095	166.5304095
2-Ethoxyethanol acetate	Lawn Mowing [*]	77.19147631	77.19147631
2-Ethoxyethanol acetate	Solid fuel burning (domestic) [*]	27.43760367	27.43760367
2-Ethoxyethanol acetate	Recreational Boating [*]	25.07034439	25.07034439
2-Ethoxyethanol acetate	Lawn Mowing (public open spaces) [*]	23.37163442	23.37163442
2-Ethoxyethanol acetate	Domestic/Commercial solvents/ aerosols [*]	11.35097589	11.35097589
Ethyl acetate	Total	10238.74505	10238.74505
Ethyl acetate	Architectural Surface Coatings [*]	5281.488335	5281.488335
Ethyl acetate	Motor Vehicle Refinishing [*]	2257.325735	2257.325735
Ethyl acetate	Domestic/Commercial solvents/ aerosols [*]	2250.113523	2250.113523
Ethyl acetate	Solvent Use - Sub-threshold facilities [*]	260.1343918	260.1343918
Ethyl acetate	Lawn Mowing [*]	94.33039614	94.33039614
Ethylbenzene	Total	30755.33043	30755.33043
Ethylbenzene	Motor Vehicles [*]	22027.00831	22027.00831
Ethylbenzene	Lawn Mowing [*]	4213.807279	4213.807279
Ethylbenzene	Architectural Surface Coatings [*]	1342.048243	1342.048243
Ethylbenzene	Lawn Mowing (public open spaces) [*]	1318.63642	1318.63642
Ethylbenzene	Motor Vehicle Refinishing [*]	1222.44695	1222.44695
Ethylene glycol (1,2-ethanediol)	Total	3178.453851	3178.453851
Ethylene glycol (1,2-ethanediol)	Domestic/Commercial solvents/ aerosols [*]	2503.16771	2503.16771
Ethylene glycol (1,2-ethanediol)	Architectural Surface Coatings [*]	515.8120229	515.8120229
Ethylene glycol (1,2-ethanediol)	Lawn Mowing [*]	79.33367692	79.33367692
Ethylene glycol (1,2-ethanediol)	Solid fuel burning (domestic) [*]	28.20694048	28.20694048
Ethylene glycol (1,2-ethanediol)	Recreational Boating [*]	25.78542449	25.78542449
Ethylene oxide	Total	1098.84024	1098.84024
Ethylene oxide	Domestic/Commercial solvents/ aerosols [*]	934.894597	934.894597
Ethylene oxide	Lawn Mowing [*]	81.49413991	81.49413991
Ethylene oxide	Solid fuel burning (domestic) [*]	28.97220993	28.97220993
Ethylene oxide	Recreational Boating [*]	26.5846847	26.5846847
Ethylene oxide	Lawn Mowing (public open spaces) [*]	24.67506147	24.67506147
Fluoride compounds	Total	96834.27497	96834.27497
Fluoride compounds	Electricity Generation [261]	96000	96000
Fluoride compounds	Ceramic Product Manufacturing [202]	824	824
Fluoride compounds	Solid fuel burning (domestic) [*]	4.767210471	4.767210471
Fluoride compounds	Barbeques [*]	2.789636638	2.789636638
Fluoride compounds	Liquid fuel burning (domestic) [*]	1.839570865	1.839570865
Formaldehyde (methyl aldehyde)	Total	66913.82147	66913.82147
Formaldehyde (methyl aldehyde)	Solid fuel burning (domestic) [*]	34947.64496	34947.64496
Formaldehyde (methyl aldehyde)	Motor Vehicles [*]	27841.66368	27841.66368
Formaldehyde (methyl aldehyde)	Lawn Mowing (public open spaces) [*]	1710.823236	1710.823236
Formaldehyde (methyl aldehyde)	Lawn Mowing [*]	1074.44618	1074.44618
Formaldehyde (methyl aldehyde)	Railways [*]	316.6207512	316.6207512
Glutaraldehyde	Total	696.1619456	696.1619456
Glutaraldehyde	Domestic/Commercial solvents/ aerosols [*]	696.1619456	696.1619456
n-Hexane	Total	35306.18061	35306.18061
n-Hexane	Motor Vehicles [*]	25331.34985	25331.34985
n-Hexane	Domestic/Commercial solvents/ aerosols [*]	5345.173165	5345.173165
n-Hexane	Lawn Mowing [*]	2412.83227	2412.83227
n-Hexane	Recreational Boating [*]	810.730085	810.730085
n-Hexane	Lawn Mowing (public open spaces) [*]	742.6322451	742.6322451
Hydrochloric acid	Total	272563.262	272563.262
Hydrochloric acid	Electricity Generation [261]	270000	270000
Hydrochloric acid	Ceramic Product Manufacturing [202]	2475	2475
Hydrochloric acid	Solid fuel burning (domestic) [*]	38.13540511	38.13540511
Hydrochloric acid	Barbeques [*]	22.31490798	22.31490798
Hydrochloric acid	Liquid fuel burning (domestic) [*]	17.11334529	17.11334529
Hydrogen sulfide	Total	6.149534128	6.149534128
Hydrogen sulfide	Natural/Town Gas Leakage [*]	6.149534128	6.149534128
Lead & compounds	Total	498.3525584	0.09043119 498.4429896
Lead & compounds	Motor Vehicles [*]	383.9965165	383.9965165
Lead & compounds	Windblown Dust [*]	71.86157925	71.86157925
Lead & compounds	Burning (fuel red., regen., agric.)/ Wildfires [*]	21.46880647	21.46880647
Lead & compounds	Electricity Generation [261]	12.14	12.14
Lead & compounds	Ceramic Product Manufacturing [202]	3.042	3.042
Manganese & compounds	Total	552.1792103	14.37168186 566.5508921
Manganese & compounds	Electricity Generation [261]	370	370
Manganese & compounds	Windblown Dust [*]	85.0754589	85.0754589

Manganese & compounds	Ceramic Product Manufacturing [202]	35.922	35.922	
Manganese & compounds	Motor Vehicles [*]	27.42501785	27.42501785	
Manganese & compounds	Burning(fuel red., regen., agric.)/ Wildfires [*]	23.7208852	23.7208852	
Mercury & compounds	Total	8.949906133	1.43E-04 8.950049394	
Mercury & compounds	Electricity Generation [261]	5.65	5.65	
Mercury & compounds	Motor Vehicles [*]	1.731409194	1.731409194	
Mercury & compounds	Windblown Dust [*]	1.210514339	1.210514339	
Mercury & compounds	Ceramic Product Manufacturing [202]	0.116	0.116	
Mercury & compounds	Fuel Combustion - sub reporting threshold facilities [*]	0.074830566	0.074830566	
Methanol	Total	49562.8436	49562.8436	
Methanol	Domestic/Commercial solvents/ aerosols [*]	43148.73634	43148.73634	
Methanol	Solvent Use - Sub-threshold facilities [*]	3032.4191	3032.4191	
Methanol	Motor Vehicles [*]	2777.348836	2777.348836	
Methanol	Lawn Mowing [*]	300.1935149	300.1935149	
Methanol	Solid fuel burning (domestic) [*]	106.7177344	106.7177344	
2-Methoxyethanol	Total	409.6472792	409.6472792	
2-Methoxyethanol	Domestic/Commercial solvents/ aerosols [*]	241.591634	241.591634	
2-Methoxyethanol	Lawn Mowing [*]	83.60345818	83.60345818	
2-Methoxyethanol	Solid fuel burning (domestic) [*]	29.73272136	29.73272136	
2-Methoxyethanol	Recreational Boating [*]	27.16153331	27.16153331	
2-Methoxyethanol	Lawn Mowing (public open spaces) [*]	25.36600779	25.36600779	
2-Methoxyethanol acetate	Total	0.083236534	0.083236534	
2-Methoxyethanol acetate	Barbeques [*]	0.083236534	0.083236534	
Methyl ethyl ketone	Total	49651.52068	49651.52068	
Methyl ethyl ketone	Architectural Surface Coatings [*]	40359.61736	40359.61736	
Methyl ethyl ketone	Motor Vehicle Refinishing [*]	4581.55694	4581.55694	
Methyl ethyl ketone	Domestic/Commercial solvents/ aerosols [*]	3132.033476	3132.033476	
Methyl ethyl ketone	Lawn Mowing (public open spaces) [*]	553.3588641	553.3588641	
Methyl ethyl ketone	Solid fuel burning (domestic) [*]	419.7444494	419.7444494	
Methyl isobutyl ketone	Total	21162.60358	21162.60358	
Methyl isobutyl ketone	Architectural Surface Coatings [*]	19898.82297	19898.82297	
Methyl isobutyl ketone	Motor Vehicle Refinishing [*]	485.722565	485.722565	
Methyl isobutyl ketone	Domestic/Commercial solvents/ aerosols [*]	468.7439216	468.7439216	
Methyl isobutyl ketone	Lawn Mowing [*]	120.0795892	120.0795892	
Methyl isobutyl ketone	Solvent Use - Sub-threshold facilities [*]	67.90988865	67.90988865	
Methyl methacrylate	Total	198.3998602	198.3998602	
Methyl methacrylate	Lawn Mowing [*]	98.61572867	98.61572867	
Methyl methacrylate	Solid fuel burning (domestic) [*]	35.06112346	35.06112346	
Methyl methacrylate	Recreational Boating [*]	32.14317136	32.14317136	
Methyl methacrylate	Lawn Mowing (public open spaces) [*]	29.88876969	29.88876969	
Methyl methacrylate	Commercial Shipping/Boating [*]	2.592886436	2.592886436	
Nickel & compounds	Total	122.1692912	122.1692912	
Nickel & compounds	Electricity Generation [261]	92.37	92.37	
Nickel & compounds	Windblown Dust [*]	5.089554967	5.089554967	
Nickel & compounds	Burning(fuel red., regen., agric.)/ Wildfires [*]	4.295276883	4.295276883	
Nickel & compounds	Liquid fuel burning (domestic) [*]	4.167327032	4.167327032	
Nickel & compounds	Ceramic Product Manufacturing [202]	3.584	3.584	
Oxides of Nitrogen	Total	1.97E+07	1.97E+07	
Oxides of Nitrogen	Electricity Generation [261]	1.60E+07	1.60E+07	
Oxides of Nitrogen	Motor Vehicles [*]	3424732.986	3424732.986	17%
Oxides of Nitrogen	Railways [*]	83927.538	83927.538	
Oxides of Nitrogen	Burning(fuel red., regen., agric.)/ Wildfires [*]	48003.69316	48003.69316	
Oxides of Nitrogen	Commercial Shipping/Boating [*]	46244.26324	46244.26324	
Particulate Matter 10.0 um	Total	745605.3942	745605.3942	
Particulate Matter 10.0 um	Solid fuel burning (domestic) [*]	208685.7925	208685.7925	
Particulate Matter 10.0 um	Electricity Generation [261]	201198	201198	
Particulate Matter 10.0 um	Burning(fuel red., regen., agric.)/ Wildfires [*]	143309.1066	143309.1066	
Particulate Matter 10.0 um	Motor Vehicles [*]	106199.4632	106199.4632	14%
Particulate Matter 10.0 um	Windblown Dust [*]	40385.57284	40385.57284	
Particulate Matter 2.5 um	Total	103270.4934	103270.4934	
Particulate Matter 2.5 um	Electricity Generation [261]	102162	102162	
Particulate Matter 2.5 um	Other Food Product Manufacturing [119]	975.712	975.712	
Particulate Matter 2.5 um	Beverage Manufacturing [121]	69.574418	69.574418	
Particulate Matter 2.5 um	Ceramic Product Manufacturing [202]	63.207	63.207	
Phenol	Total	162.0226618	162.0226618	
Phenol	Lawn Mowing [*]	94.33039614	94.33039614	
Phenol	Recreational Boating [*]	30.74003685	30.74003685	
Phenol	Lawn Mowing (public open spaces) [*]	28.50687705	28.50687705	
Phenol	Solid fuel burning (domestic) [*]	5.878542404	5.878542404	
Phenol	Commercial Shipping/Boating [*]	2.47259789	2.47259789	
Polychlorinated dioxins and furans (TEQ)	Total	0.001392124	0.001392124	
Polychlorinated dioxins and furans (TEQ)	Electricity Generation [261]	6.90E-04	6.90E-04	
Polychlorinated dioxins and furans (TEQ)	Motor Vehicles [*]	6.18E-04	6.18E-04	
Polychlorinated dioxins and furans (TEQ)	Solid fuel burning (domestic) [*]	6.19E-05	6.19E-05	
Polychlorinated dioxins and furans (TEQ)	Burning(fuel red., regen., agric.)/ Wildfires [*]	1.10E-05	1.10E-05	
Polychlorinated dioxins and furans (TEQ)	Railways [*]	6.48E-06	6.48E-06	
Polycyclic aromatic hydrocarbons (B[a]Peq)	Total	12749.5153	12749.5153	
Polycyclic aromatic hydrocarbons (B[a]Peq)	Motor Vehicles [*]	5693.974335	5693.974335	
Polycyclic aromatic hydrocarbons (B[a]Peq)	Solid fuel burning (domestic) [*]	3109.802623	3109.802623	
Polycyclic aromatic hydrocarbons (B[a]Peq)	Domestic/Commercial solvents/ aerosols [*]	2860.763835	2860.763835	
Polycyclic aromatic hydrocarbons (B[a]Peq)	Lawn Mowing [*]	507.1234875	507.1234875	
Polycyclic aromatic hydrocarbons (B[a]Peq)	Lawn Mowing (public open spaces) [*]	320.6589156	320.6589156	
Selenium & compounds	Total	3.081488389	3.081488389	
Selenium & compounds	Motor Vehicles [*]	2.351924734	2.351924734	

Selenium & compounds	Barbeques [*]	0.321673094	0.321673094	
Selenium & compounds	Solid fuel burning (domestic) [*]	0.166412263	0.166412263	
Selenium & compounds	Windblown Dust [*]	0.082499168	0.082499168	
Selenium & compounds	Commercial Shipping/Boating [*]	0.081662557	0.081662557	
Styrene (ethenylbenzene)	Total	5974.302738	5974.302738	
Styrene (ethenylbenzene)	Motor Vehicles [*]	5089.35583	5089.35583	
Styrene (ethenylbenzene)	Solid fuel burning (domestic) [*]	517.266691	517.266691	
Styrene (ethenylbenzene)	Lawn Mowing [*]	214.4228832	214.4228832	
Styrene (ethenylbenzene)	Recreational Boating [*]	70.17534374	70.17534374	
Styrene (ethenylbenzene)	Lawn Mowing (public open spaces) [*]	66.26255703	66.26255703	
Sulfur dioxide	Total	1.51E+07	1.51E+07	
Sulfur dioxide	Electricity Generation [261]	1.50E+07	1.50E+07	
Sulfur dioxide	Motor Vehicles [*]	47978.92865	47978.92865	
Sulfur dioxide	Commercial Shipping/Boating [*]	17107.70432	17107.70432	
Sulfur dioxide	Railways [*]	11716.94256	11716.94256	
Sulfur dioxide	Ceramic Product Manufacturing [202]	11185	11185	
Sulfuric acid	Total	130000	130000	
Sulfuric acid	Electricity Generation [261]	130000	130000	
Tetrachloroethylene	Total	7832.981314	7832.981314	
Tetrachloroethylene	Dry Cleaning [*]	5779.99224	5779.99224	
Tetrachloroethylene	Domestic/Commercial solvents/ aerosols [*]	1751.29878	1751.29878	
Tetrachloroethylene	Lawn Mowing [*]	150.0908814	150.0908814	
Tetrachloroethylene	Solid fuel burning (domestic) [*]	53.35728258	53.35728258	
Tetrachloroethylene	Recreational Boating [*]	48.76457996	48.76457996	
Toluene (methylbenzene)	Total	296715.2866	296715.2866	
Toluene (methylbenzene)	Motor Vehicles [*]	122376.9729	122376.9729	
Toluene (methylbenzene)	Architectural Surface Coatings [*]	69032.95814	69032.95814	
Toluene (methylbenzene)	Motor Vehicle Refinishing [*]	41251.2471	41251.2471	
Toluene (methylbenzene)	Domestic/Commercial solvents/ aerosols [*]	26623.72928	26623.72928	
Toluene (methylbenzene)	Lawn Mowing [*]	16574.71429	16574.71429	
Toluene-2,4-diisocyanate	Total	15.7	15.7	
Toluene-2,4-diisocyanate	Print Shops / Graphic Arts [*]	15.7	15.7	
Total Nitrogen	Total		206664.7492	206664.7492
Total Nitrogen	Water Supply, Sewerage and Drainage Services [281]		205033	205033
Total Nitrogen	Other Food Product Manufacturing [119]		1363	1363
Total Nitrogen	Private Forests: low rainfall-Hunter River [*]		83.16972	83.16972
Total Nitrogen	Bushland-Hawkesbury-Nepean River [*]		62.01012	62.01012
Total Nitrogen	Southern State Forests-Hunter River [*]		57.05556	57.05556
Total Phosphorus	Total	0.466510501	88210.77453	88211.24104
Total Phosphorus	Water Supply, Sewerage and Drainage Services [281]		80497	80497
Total Phosphorus	Other Food Product Manufacturing [119]		7695	7695
Total Phosphorus	Private Forests: low rainfall-Hunter River [*]		4.15785	4.15785
Total Phosphorus	Bushland-Hawkesbury-Nepean River [*]		4.13424	4.13424
Total Phosphorus	Southern State Forests-Hunter River [*]		2.85246	2.85246
Total Volatile Organic Compounds	Total	4677052.224	4677052.224	
Total Volatile Organic Compounds	Motor Vehicles [*]	1841787.156	1841787.156	39%
Total Volatile Organic Compounds	Domestic/Commercial solvents/ aerosols [*]	701545.6316	701545.6316	
Total Volatile Organic Compounds	Architectural Surface Coatings [*]	497945.9924	497945.9924	
Total Volatile Organic Compounds	Solid fuel burning (domestic) [*]	428275.7243	428275.7243	
Total Volatile Organic Compounds	Burning(fuel red., regen., agric.)/ Wildfires [*]	254644.1807	254644.1807	
1,1,2-Trichloroethane	Total	150.8614779	150.8614779	
1,1,2-Trichloroethane	Lawn Mowing [*]	75.05026544	75.05026544	
1,1,2-Trichloroethane	Solid fuel burning (domestic) [*]	26.67744266	26.67744266	
1,1,2-Trichloroethane	Recreational Boating [*]	24.38228998	24.38228998	
1,1,2-Trichloroethane	Lawn Mowing (public open spaces) [*]	22.71207433	22.71207433	
1,1,2-Trichloroethane	Commercial Shipping/Boating [*]	1.964712918	1.964712918	
Trichloroethylene	Total	215.5641849	215.5641849	
Trichloroethylene	Lawn Mowing [*]	92.18992956	92.18992956	
Trichloroethylene	Solid fuel burning (domestic) [*]	32.77323923	32.77323923	
Trichloroethylene	Domestic/Commercial solvents/ aerosols [*]	30.06528093	30.06528093	
Trichloroethylene	Recreational Boating [*]	30.05198244	30.05198244	
Trichloroethylene	Lawn Mowing (public open spaces) [*]	27.9728619	27.9728619	
Vinyl Chloride Monomer	Total	181.2195406	181.2195406	
Vinyl Chloride Monomer	Lawn Mowing [*]	90.09887726	90.09887726	
Vinyl Chloride Monomer	Solid fuel burning (domestic) [*]	32.01831856	32.01831856	
Vinyl Chloride Monomer	Recreational Boating [*]	29.36392803	29.36392803	
Vinyl Chloride Monomer	Lawn Mowing (public open spaces) [*]	27.28191558	27.28191558	
Vinyl Chloride Monomer	Commercial Shipping/Boating [*]	2.365674738	2.365674738	
Xylenes (individual or mixed isomers)	Total	198249.392	198249.392	
Xylenes (individual or mixed isomers)	Motor Vehicles [*]	99386.25502	99386.25502	
Xylenes (individual or mixed isomers)	Architectural Surface Coatings [*]	40071.16885	40071.16885	
Xylenes (individual or mixed isomers)	Lawn Mowing [*]	17915.34579	17915.34579	
Xylenes (individual or mixed isomers)	Domestic/Commercial solvents/ aerosols [*]	12756.80119	12756.80119	
Xylenes (individual or mixed isomers)	Motor Vehicle Refinishing [*]	9975.16712	9975.16712	
Zinc and compounds	Total	1564.246179	5.696650146	1569.94283
Zinc and compounds	Motor Vehicles [*]	1163.985052		1163.985052
Zinc and compounds	Electricity Generation [261]	130		130
Zinc and compounds	Burning(fuel red., regen., agric.)/ Wildfires [*]	98.78264927		98.78264927
Zinc and compounds	Solid fuel burning (domestic) [*]	92.5571412		92.5571412
Zinc and compounds	Windblown Dust [*]	49.7812749		49.7812749