

***Appendix 3.8 – Detailed
Emission Removal for PATH Re-run***

Detailed Emission Removal for PATH Re-run

Layer	Grid	Total Annual Emission from PATH-2016		Annual Vehicular Emission from PATH-2016		Annual Vehicular Emission from Near-field Model		Annual Marine Emission from Near-field Model		Emission After Removal		Scale Factor for Emission Removal		Methodology for Emission Removal
		NO (mol/yr)	NO ₂ (mol/yr)	NO (mol/yr)	NO ₂ (mol/yr)	NO (mol/yr)	NO ₂ (mol/yr)	NO (mol/yr)	NO ₂ (mol/yr)	NO (mol/yr)	NO ₂ (mol/yr)	NO	NO ₂	
Layer 1	3631	2784413	231603	159031	19879	-	-	-	-	2625382	211724	0.943	0.914	Remove all vehicular emission from PATH-2016
	3731	3912084	328473	292699	36588	-	-	-	-	3619385	291886	0.925	0.889	Remove all vehicular emission from PATH-2016
	3831	3025778	259340	345519	43190	807087	57169	1147828	83183	1532432	132967	0.506	0.513	Remove all vehicular emission from PATH-2016 and remove marine emission modelled in near-field model.
	3832	2017591	181621	426391	53299	3072	173	524591	38017	1066609	90306	0.529	0.497	Remove all vehicular emission from PATH-2016 and remove marine emission modelled in near-field model.
	3931	1928196	174332	424591	53074	202607	12662	862636	62515	862952	99155	0.448	0.569	Remove all vehicular emission and marine emission modelled in near-field model.
	3932	1447592	157499	918907	114863	984346	66255	412856	29920	50390	61325	0.035	0.389	Remove all vehicular emission and marine emission modelled in near-field model.
Layer 3	3933	1547395	172991	1086714	135839	-	-	76450	5540	1470945	167450	0.951	0.968	Remove marine emission modelled in near-field model.
	3930	566899	45717	-	-	-	-	6085841	441040	0	0	0.000	0.000	Remove marine emission modelled in near-field model.
	3931	393440	31729	-	-	-	-	25523833	1849708	0	0	0.000	0.000	Remove marine emission modelled in near-field model.