



Figure K-56 Contour plot of change in annual mean PM₁₀ concentration in 2023 cumulative scenario (all sources, 2023-DSC minus 2023-DM)

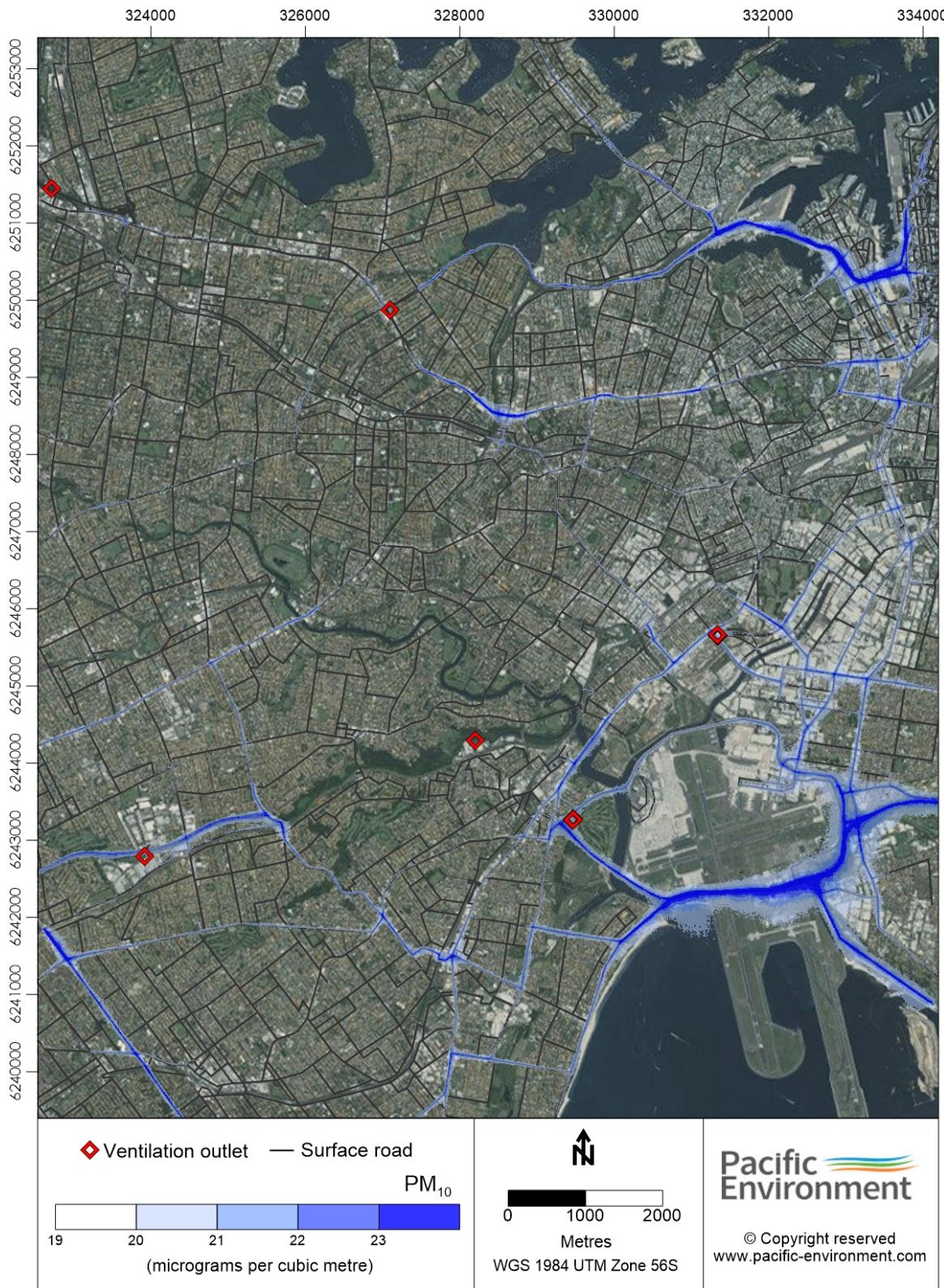


Figure K-57 Contour plot of annual mean PM₁₀ concentration in 2033 Do Minimum scenario (all sources, 2033-DM)

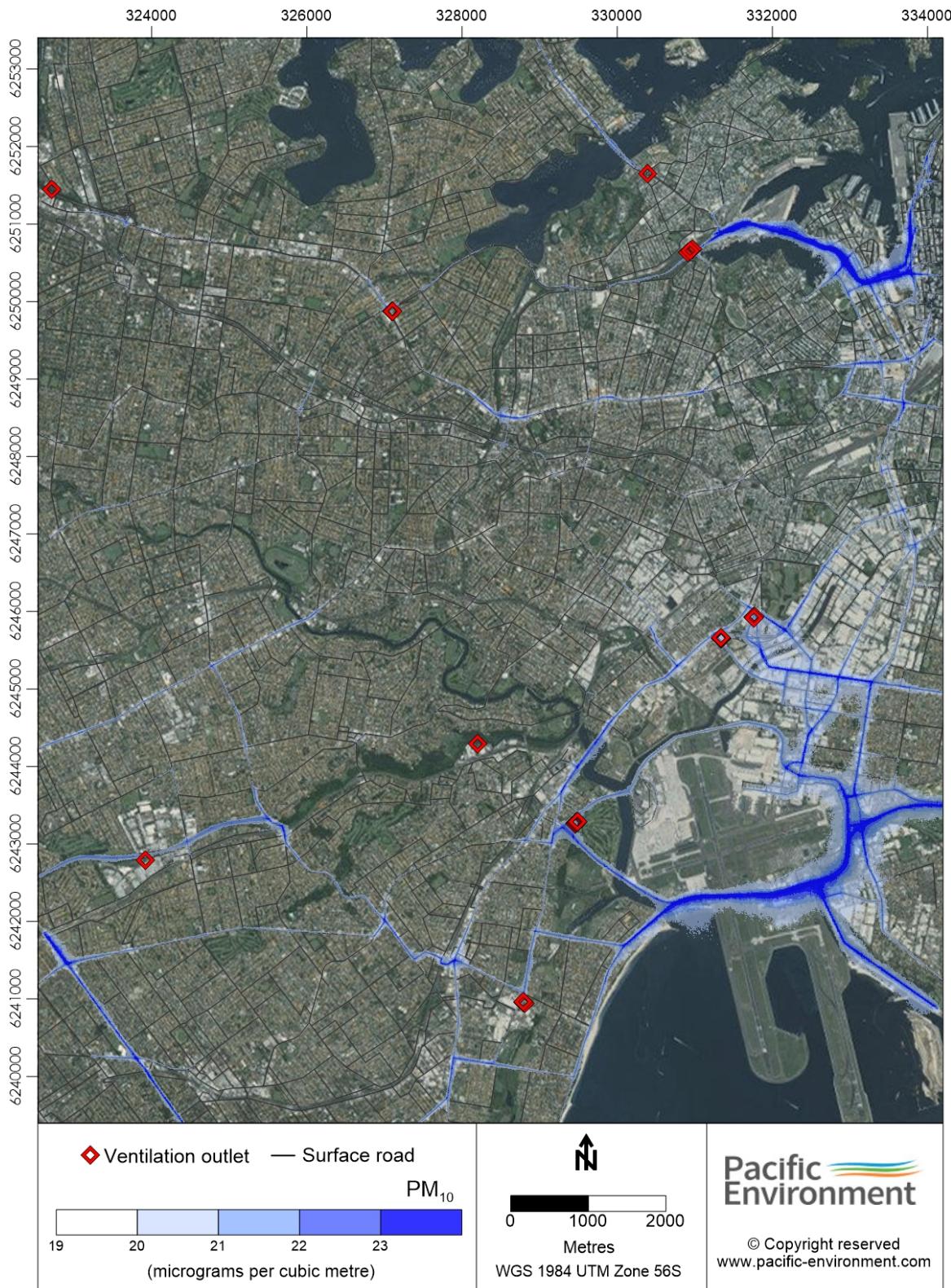


Figure K-58 Contour plot of annual mean PM_{10} concentration in 2033 Do Something scenario (all sources, 2033-DS)



Figure K-59 Contour plot of change in annual mean PM₁₀ concentration in 2033 Do Something scenario (all sources, 2033-DS minus 2033-DM)

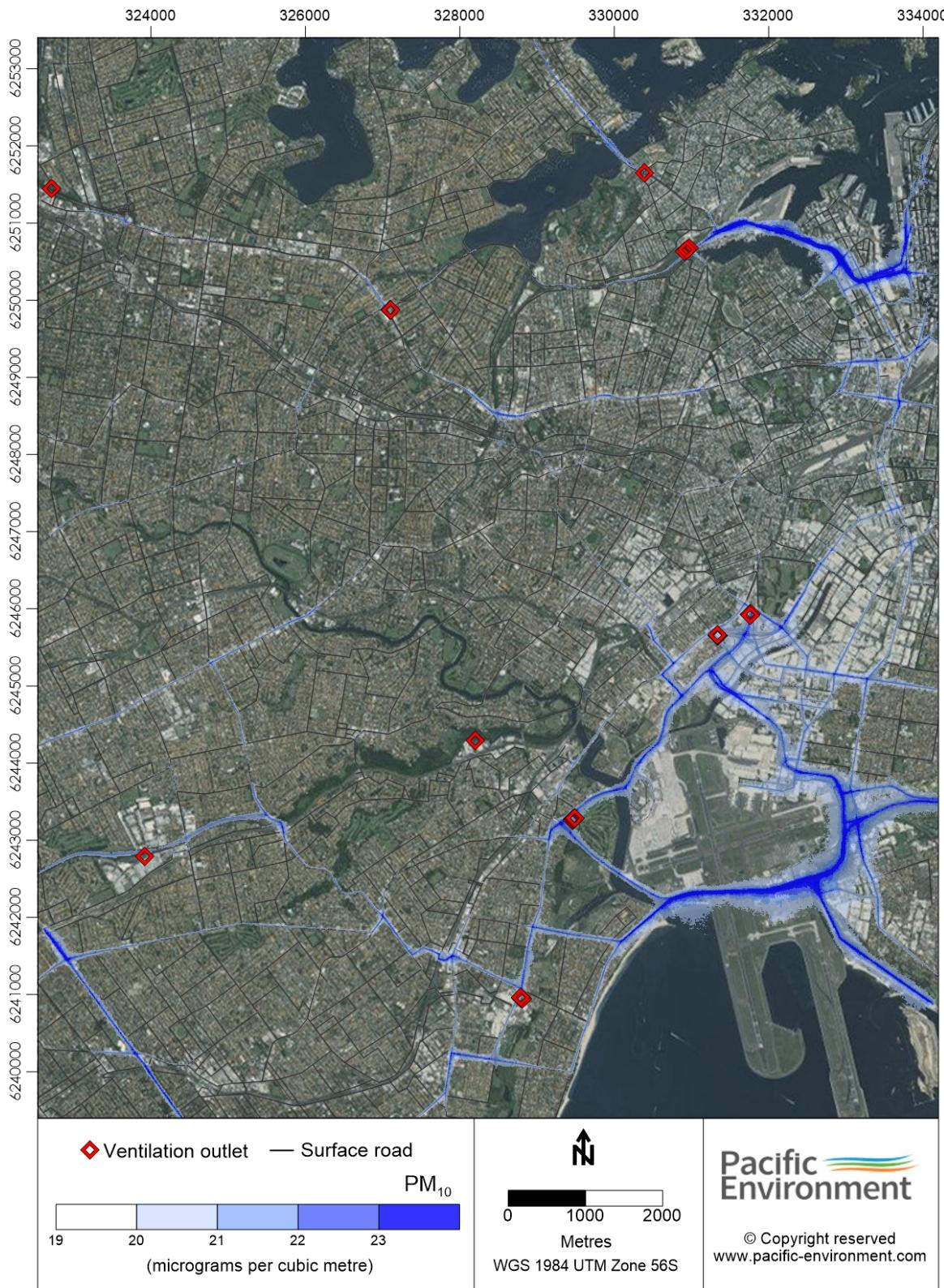


Figure K-60 Contour plot of annual mean PM₁₀ concentration in 2033 cumulative scenario (all sources, 2033-DSC)

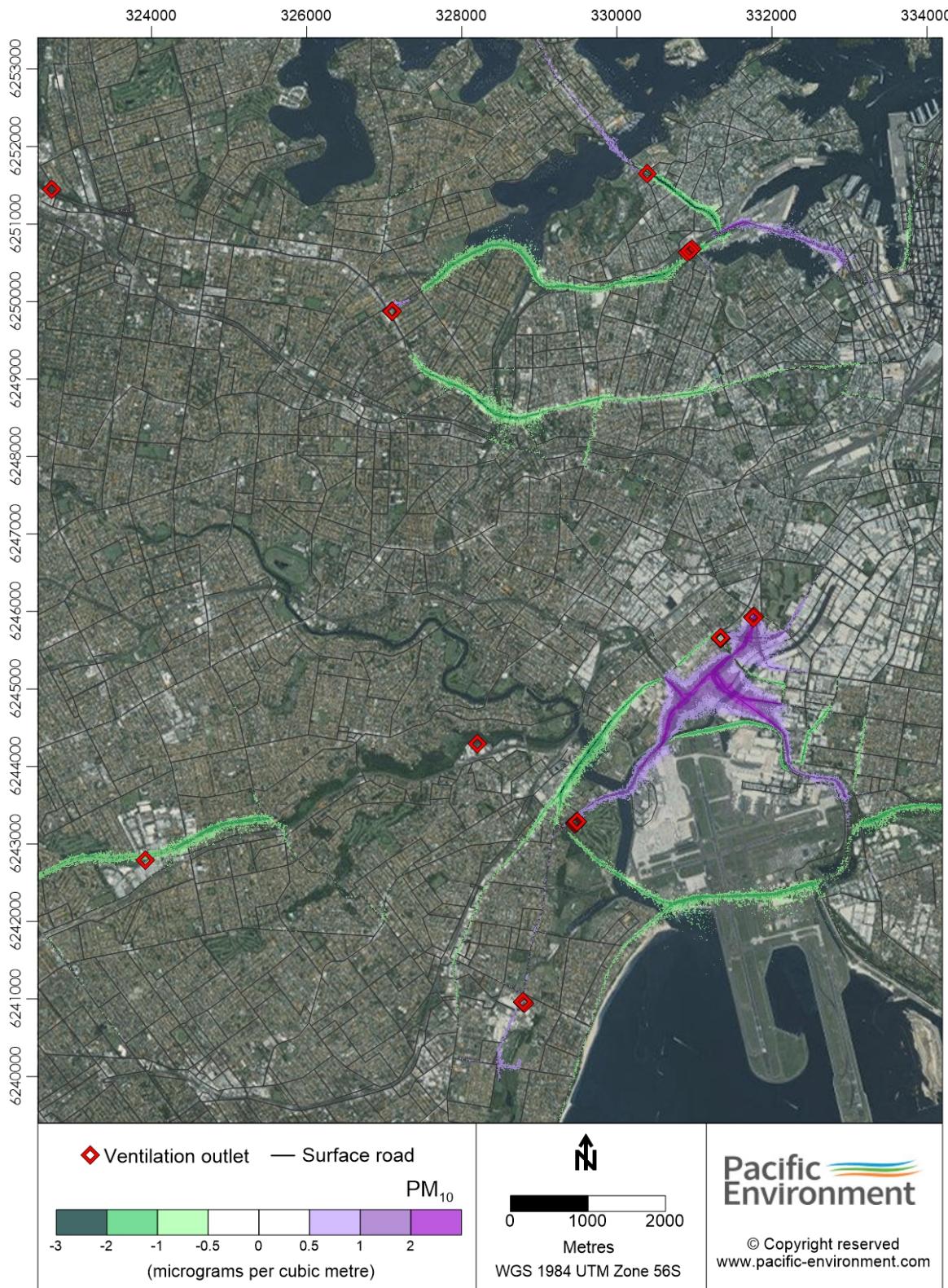


Figure K-61 Contour plot of change in annual mean PM₁₀ concentration in 2033 cumulative scenario (all sources, 2033-DSC minus 2033-DM)

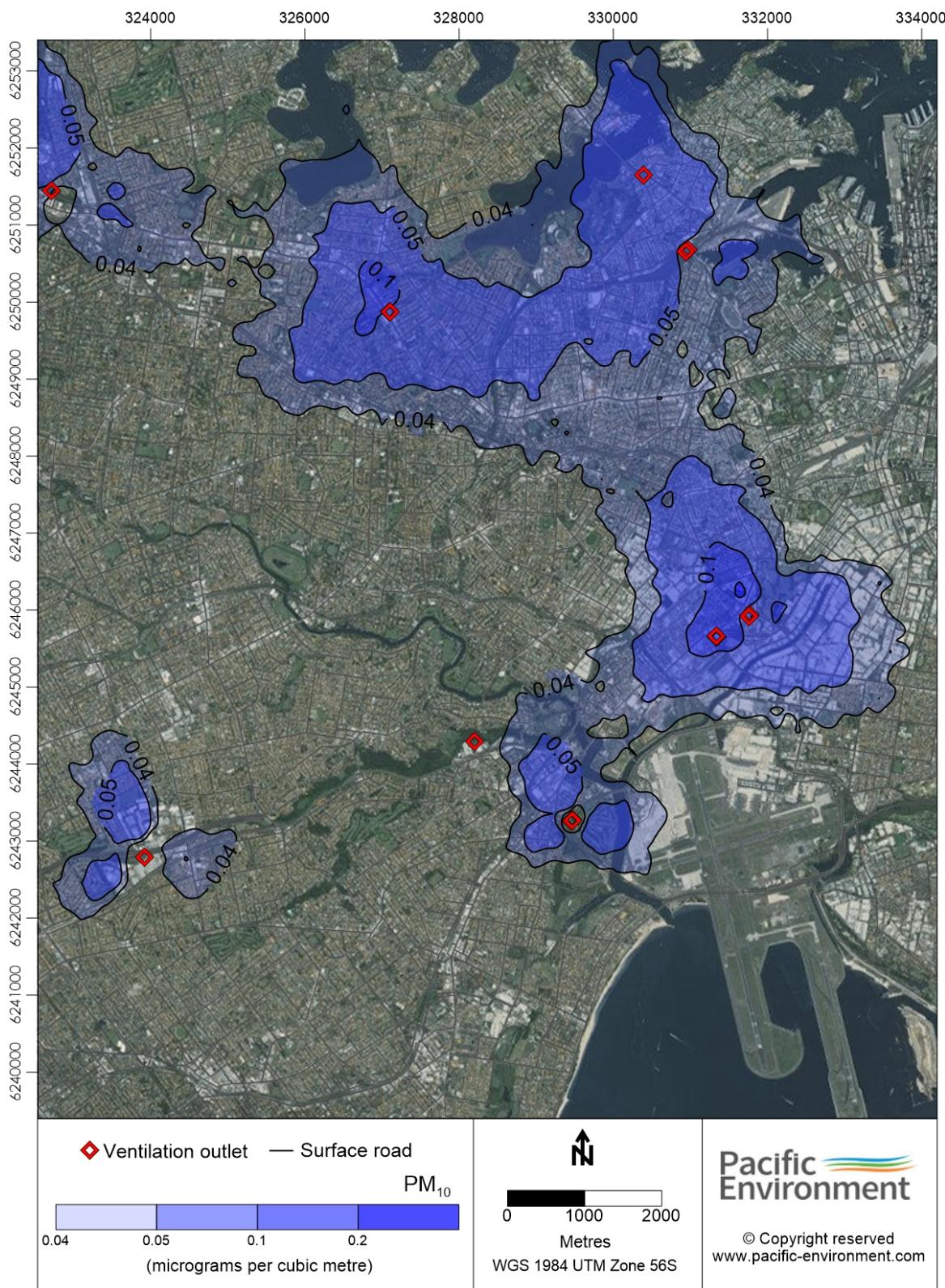
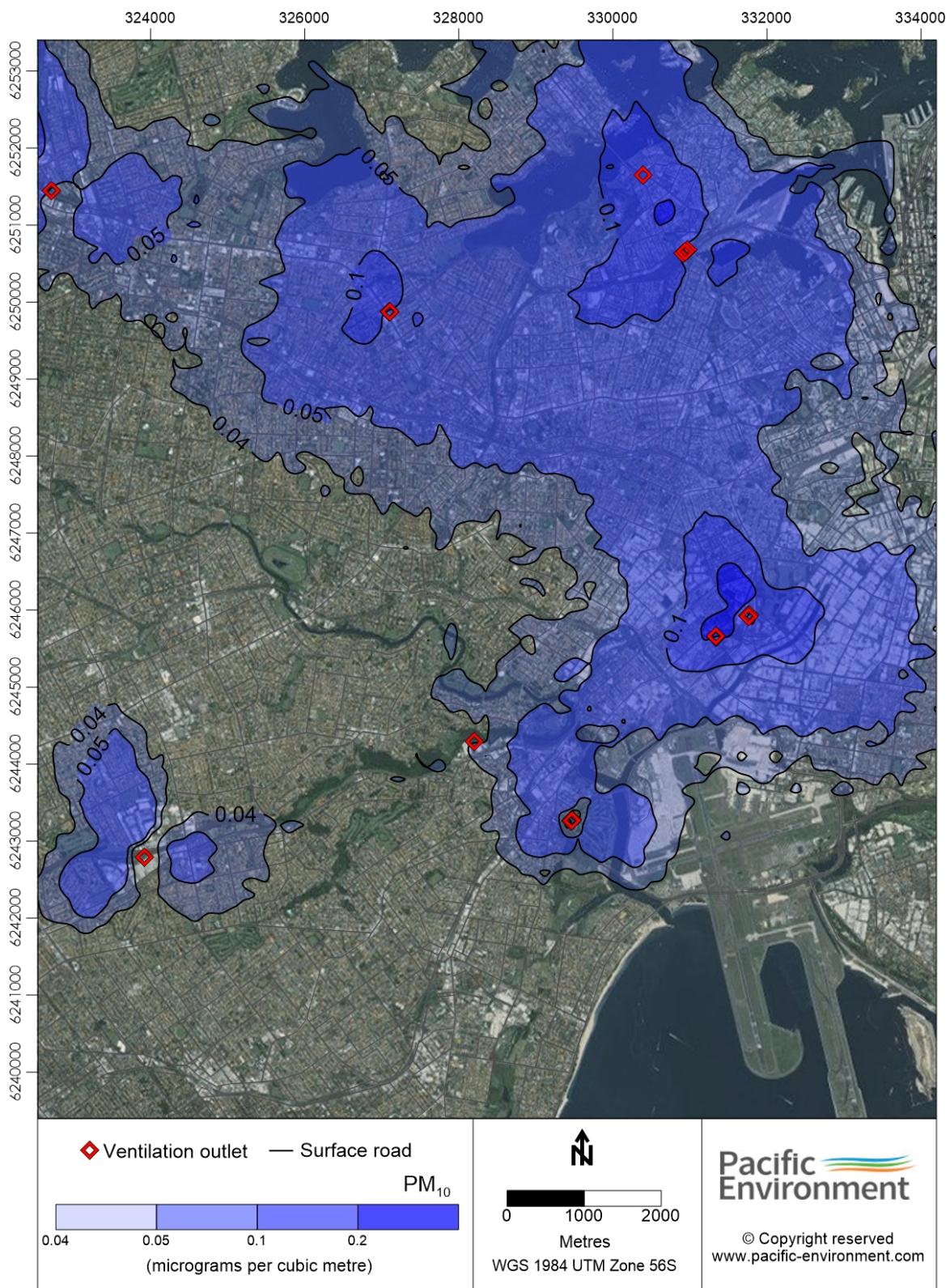


Figure K-62 Contour plot of annual mean PM_{10} concentrations (ventilation outlets only, 2023-DS)



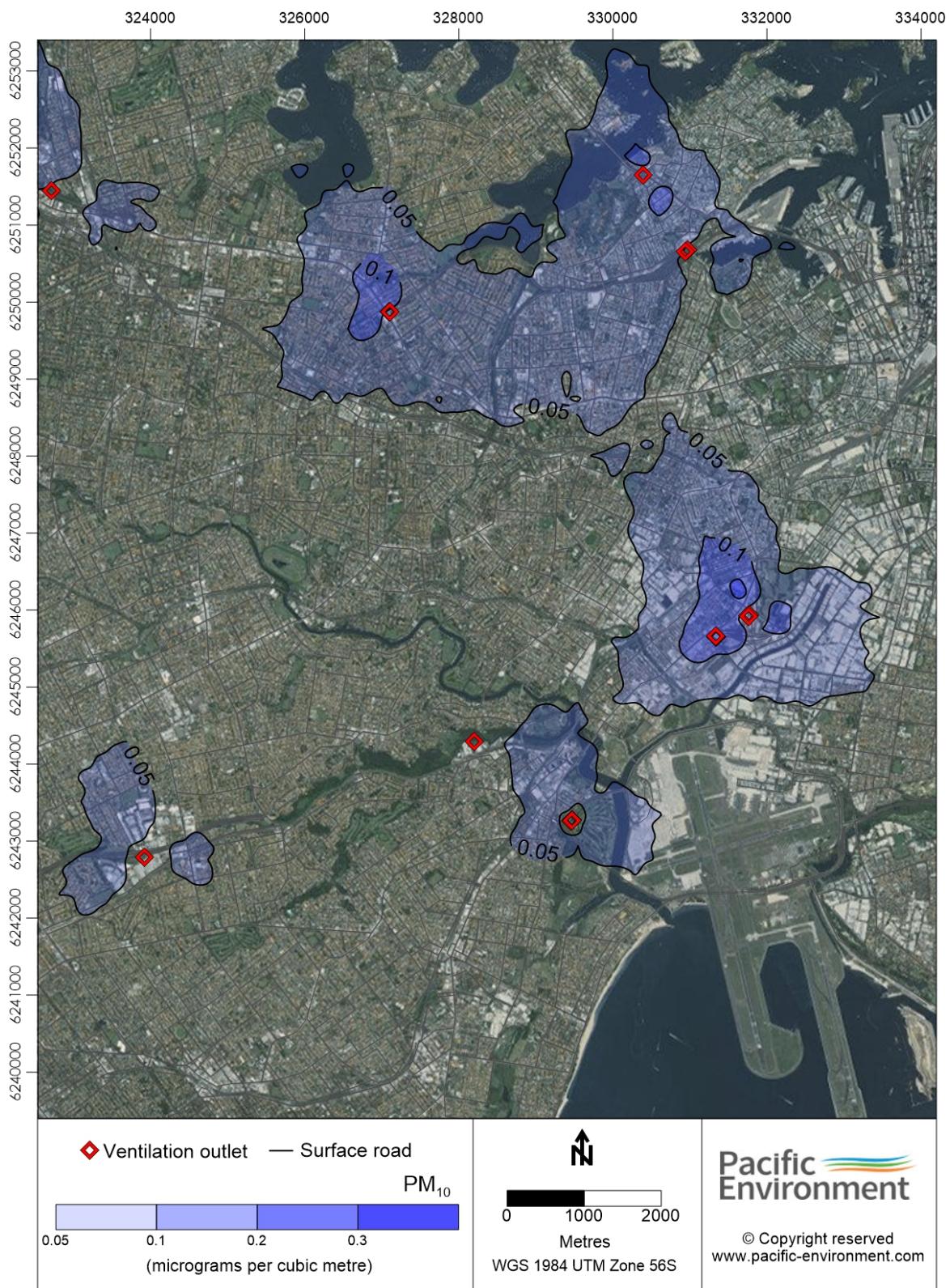


Figure K-64 Contour plot of annual mean PM₁₀ concentrations (ventilation outlets only, 2033-DS)

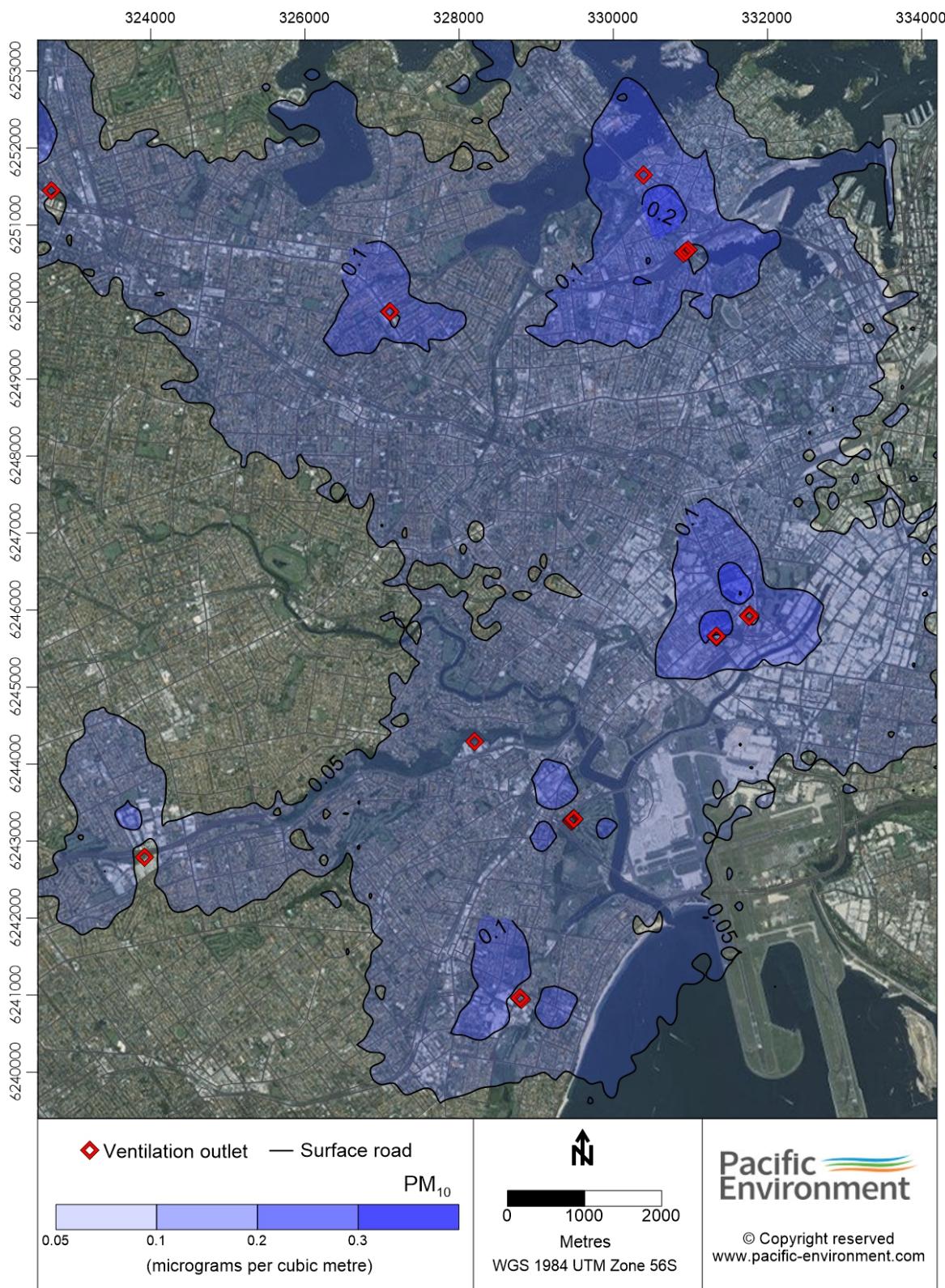


Figure K-65 Contour plot of annual mean PM_{10} concentrations (ventilation outlets only, 2033-DSC)

K.6 PM₁₀ (maximum 24-hour mean)

Table K-36 Maximum 24-hour mean PM₁₀ concentration at community receptors

Receptor	Maximum 24-hour PM ₁₀ concentration (µg/m ³)							Change relative to Do Minimum (µg/m ³)				Change relative to Do Minimum (%)			
	2015-BY	2023-DM	2023-DS	2023-DSC	2033-DM	2033-DS	2033-DSC	2023-DS	2023-DSC	2033-DS	2033-DSC	2023-DS	2023-DSC	2033-DS	2033-DSC
CR01	-	49.5	48.4	48.8	49.9	48.1	48.0	-1.1	-0.7	-1.8	-1.9	-2.2%	-1.5%	-3.6%	-3.8%
CR02	-	48.8	49.2	48.6	49.3	49.4	49.4	0.4	-0.1	0.1	0.1	0.9%	-0.3%	0.2%	0.3%
CR03	-	50.6	51.2	50.6	50.5	50.4	51.5	0.6	0.0	-0.1	1.0	1.1%	0.0%	-0.2%	1.9%
CR04	-	50.7	48.3	49.0	48.3	49.7	50.2	-2.3	-1.7	1.4	1.9	-4.6%	-3.3%	3.0%	4.0%
CR05	-	49.3	49.4	50.9	49.9	48.8	49.7	0.1	1.6	-1.1	-0.3	0.3%	3.2%	-2.3%	-0.5%
CR06	-	49.9	48.4	49.8	49.9	48.9	50.0	-1.5	-0.1	-1.0	0.1	-3.1%	-0.2%	-1.9%	0.2%
CR07	-	49.5	48.4	48.5	49.1	48.6	50.1	-1.2	-1.0	-0.5	1.1	-2.3%	-2.1%	-0.9%	2.2%
CR08	-	49.8	49.5	49.3	51.0	49.5	50.5	-0.3	-0.5	-1.5	-0.5	-0.5%	-0.9%	-3.0%	-1.1%
CR09	-	49.5	50.9	49.7	49.4	50.3	48.5	1.4	0.2	0.9	-0.9	2.8%	0.4%	1.8%	-1.7%
CR10	-	54.1	53.0	52.7	53.4	52.8	52.7	-1.1	-1.4	-0.6	-0.7	-2.0%	-2.7%	-1.2%	-1.4%
CR11	-	48.9	48.2	49.8	49.8	48.5	48.5	-0.7	0.8	-1.4	-1.4	-1.4%	1.7%	-2.8%	-2.8%
CR12	-	52.4	52.5	52.9	52.8	53.3	53.7	0.2	0.5	0.5	0.9	0.3%	1.0%	0.9%	1.7%
CR13	-	50.2	48.9	49.1	48.4	48.6	49.1	-1.3	-1.0	0.2	0.7	-2.6%	-2.1%	0.5%	1.5%
CR14	-	49.9	49.3	49.9	51.1	49.9	50.2	-0.6	0.0	-1.2	-0.9	-1.1%	-0.1%	-2.4%	-1.8%
CR15	-	48.4	48.8	48.7	49.0	49.5	48.9	0.5	0.3	0.5	-0.1	0.9%	0.7%	1.0%	-0.1%
CR16	-	47.5	48.3	48.8	48.6	48.2	50.1	0.8	1.3	-0.4	1.5	1.6%	2.7%	-0.8%	3.2%
CR17	-	48.4	49.4	47.7	49.7	48.6	48.8	1.0	-0.7	-1.1	-0.9	2.2%	-1.4%	-2.2%	-1.7%
CR18	-	49.6	48.4	50.3	48.6	48.9	49.2	-1.2	0.7	0.3	0.6	-2.4%	1.4%	0.7%	1.3%
CR19	-	47.6	47.7	47.6	48.5	48.5	47.2	0.1	0.0	0.0	-1.2	0.2%	0.0%	0.1%	-2.6%
CR20	-	49.7	49.9	49.8	50.0	49.4	48.3	0.1	0.1	-0.6	-1.7	0.3%	0.1%	-1.3%	-3.3%
CR21	-	47.6	48.5	48.6	48.0	47.6	49.3	0.9	1.0	-0.3	1.3	1.8%	2.1%	-0.7%	2.7%
CR22	-	52.2	48.6	49.6	53.1	50.0	49.5	-3.6	-2.6	-3.1	-3.6	-7.0%	-5.0%	-5.8%	-6.9%
CR23	-	52.8	50.6	50.0	53.6	51.8	50.3	-2.2	-2.8	-1.8	-3.3	-4.2%	-5.3%	-3.4%	-6.2%
CR24	-	51.5	50.3	51.7	51.5	51.4	50.6	-1.2	0.2	-0.1	-0.9	-2.3%	0.5%	-0.2%	-1.7%
CR25	-	48.8	48.5	49.7	48.4	49.4	48.1	-0.3	0.9	1.0	-0.2	-0.6%	1.9%	2.1%	-0.5%
CR26	-	48.0	47.9	48.5	48.4	49.5	47.4	-0.1	0.5	1.2	-0.9	-0.3%	1.1%	2.5%	-1.9%
CR27	-	48.5	49.0	48.6	49.3	48.9	50.2	0.5	0.1	-0.5	0.8	1.1%	0.1%	-1.0%	1.7%
CR28	-	49.2	49.7	48.7	49.8	48.5	48.2	0.4	-0.5	-1.3	-1.7	0.9%	-1.0%	-2.7%	-3.3%
CR29	-	51.0	51.2	50.5	52.8	49.1	50.8	0.1	-0.5	-3.7	-2.0	0.3%	-1.1%	-7.0%	-3.8%
CR30	-	53.2	52.2	49.8	50.7	50.8	52.7	-0.9	-3.4	0.1	2.0	-1.8%	-6.3%	0.2%	3.9%
CR31	-	50.9	49.6	49.3	50.7	49.3	48.8	-1.3	-1.6	-1.4	-1.9	-2.6%	-3.1%	-2.7%	-3.8%
CR32	-	49.5	48.6	48.8	47.6	48.8	48.9	-0.9	-0.7	1.2	1.3	-1.8%	-1.4%	2.5%	2.6%
CR33	-	51.3	50.2	48.5	48.9	49.0	49.1	-1.1	-2.8	0.2	0.2	-2.2%	-5.5%	0.3%	0.5%
CR34	-	49.0	48.7	49.9	48.5	48.2	49.8	-0.3	0.8	-0.3	1.3	-0.6%	1.7%	-0.6%	2.6%
CR35	-	49.3	47.8	48.4	49.0	48.0	50.5	-1.5	-0.9	-1.0	1.5	-3.0%	-1.9%	-2.0%	3.1%
CR36	-	49.5	48.8	48.5	48.4	50.9	49.9	-0.7	-1.0	2.5	1.5	-1.4%	-2.1%	5.2%	3.2%
CR37	-	50.4	49.6	50.7	50.7	50.6	51.7	-0.9	0.3	-0.1	0.9	-1.7%	0.6%	-0.3%	1.8%
CR38	-	50.0	50.7	50.5	50.4	49.3	48.8	0.7	0.5	-1.1	-1.5	1.3%	1.0%	-2.2%	-3.1%
CR39	-	50.2	49.1	51.5	49.9	50.3	50.1	-1.2	1.3	0.3	0.1	-2.3%	2.6%	0.7%	0.3%
CR40	-	51.1	50.8	52.9	50.2	52.8	52.3	-0.3	1.8	2.6	2.1	-0.6%	3.6%	5.2%	4.3%

Table K-37 Maximum 24-hour mean PM₁₀ concentration at community receptors, ranked by concentration

Rank	Ranking by concentration ($\mu\text{g}/\text{m}^3$)						
	2015-BY	2023-DM	2023 DS	2023-DSC	2033-DM	2033-DS	2033-DSC
1	-	54.1	53.0	52.9	53.6	53.3	53.7
2		53.2	52.5	52.9	53.4	52.8	52.7
3		52.8	52.2	52.7	53.1	52.8	52.7
4		52.4	51.2	51.7	52.8	51.8	52.3
5		52.2	51.2	51.5	52.8	51.4	51.7
6		51.5	50.9	50.9	51.5	50.9	51.5
7		51.3	50.8	50.7	51.1	50.8	50.8
8		51.1	50.7	50.6	51.0	50.6	50.6
9		51.0	50.6	50.5	50.7	50.4	50.5
10		50.9	50.3	50.5	50.7	50.3	50.5

Table K-38 Maximum 24-hour mean PM₁₀ concentration at community receptors, ranked by increase and by decrease in concentration

Rank	Ranking by increase in concentration relative to Do Minimum ($\mu\text{g}/\text{m}^3$)				Ranking by decrease in concentration relative to Do Minimum ($\mu\text{g}/\text{m}^3$)				
	2023-DS	2023-DSC	2033-DS	2033-DSC	2023-DS	2023-DSC	2033-DS	2033-DSC	
1	1.40	1.82	2.62	2.15	-3.64	-3.37	-3.68	-3.64	
2		1.04	1.59	2.51		-2.34	-2.84	-3.10	-3.33
3		0.85	1.31	1.43		-2.22	-2.81	-1.82	-2.02
4		0.77	1.31	1.19		-1.53	-2.61	-1.78	-1.90
5		0.67	1.00	1.18		-1.48	-1.69	-1.53	-1.89
6		0.57	0.91	1.01		-1.32	-1.59	-1.39	-1.66
7		0.52	0.84	0.89		-1.31	-1.44	-1.37	-1.65
8		0.46	0.84	0.50		-1.19	-1.05	-1.35	-1.55
9		0.45	0.71	0.46		-1.18	-1.05	-1.23	-1.37
10		0.44	0.54	0.33		-1.16	-1.04	-1.14	-1.24

Table K-39 Maximum 24-hour mean PM₁₀ concentration at community receptors, ranked by percentage increase and by decrease in concentration

Rank	Ranking by % increase in concentration relative to Do Minimum				Ranking by % decrease in concentration relative to Do Minimum				
	2023-DS	2023-DSC	2033-DS	2033-DSC	2023-DS	2023-DSC	2033-DS	2033-DSC	
1	2.8%	3.6%	5.2%	4.3%	-7.0%	-6.3%	-7.0%	-6.9%	
2		2.2%	3.2%	5.2%		-4.6%	-5.5%	-5.8%	-6.2%
3		1.8%	2.7%	3.0%		-4.2%	-5.3%	-3.6%	-3.8%
4		1.6%	2.6%	2.5%		-3.1%	-5.0%	-3.4%	-3.8%
5		1.3%	2.1%	2.5%		-3.0%	-3.3%	-3.0%	-3.8%
6		1.1%	1.9%	2.1%		-2.6%	-3.1%	-2.8%	-3.3%
7		1.1%	1.7%	1.8%		-2.6%	-2.7%	-2.7%	-3.3%
8		0.9%	1.7%	1.0%		-2.4%	-2.1%	-2.7%	-3.1%
9		0.9%	1.4%	0.9%		-2.3%	-2.1%	-2.4%	-2.8%
10		0.9%	1.1%	0.7%		-2.3%	-2.1%	-2.3%	-2.6%

Table K-40 Maximum 24-hour mean PM₁₀ concentration at RWR receptors, ranked by concentration

Rank	Ranking by concentration ($\mu\text{g}/\text{m}^3$)						
	2015-BY	2023-DM	2023 DS	2023-DSC	2033-DM	2033-DS	2033-DSC
1	-	81.0	82.1	80.9	81.3	86.7	81.8
2		80.3	81.0	80.7	80.7	83.8	80.6
3		80.0	80.6	79.4	80.6	82.4	79.7
4		78.5	80.6	79.3	80.1	81.7	79.6
5		78.2	80.4	78.7	80.0	81.5	79.4
6		77.2	80.4	78.5	79.8	80.7	79.2
7		76.7	80.1	78.4	78.6	79.6	78.1
8		76.5	79.6	77.9	77.3	79.6	77.7
9		76.4	79.0	77.7	77.0	79.4	77.6
10		76.0	78.7	77.5	76.9	79.0	77.5

Table K-41 Maximum 24-hour mean PM₁₀ concentration at RWR receptors, ranked by increase and by decrease in concentration

Rank	Ranking by increase in concentration relative to Do Minimum ($\mu\text{g}/\text{m}^3$)				Ranking by decrease in concentration relative to Do Minimum ($\mu\text{g}/\text{m}^3$)				
	2023-DS	2023-DSC	2033-DS	2033-DSC	2023-DS	2023-DSC	2033-DS	2033-DSC	
1	10.6	11.7	12.8	13.2	-11.1	-9.8	-10.5	-11.8	
2		9.6	9.3	10.4		-10.0	-9.7	-10.1	-11.3
3		9.0	9.0	8.9		-9.7	-9.6	-9.7	-9.9
4		8.5	8.5	8.7		-9.6	-9.3	-9.6	-9.7
5		8.2	8.3	8.1		-9.4	-9.2	-9.4	-9.2
6		8.2	8.2	7.6		-9.0	-9.2	-9.0	-8.9
7		8.1	8.2	7.5		-9.0	-9.0	-8.7	-8.7
8		7.8	7.8	7.4		-8.9	-8.7	-8.4	-8.6
9		7.6	7.8	7.4		-8.6	-8.6	-8.3	-8.4
10		7.3	7.7	7.3		-8.6	-8.5	-8.2	-8.3

Table K-42 Maximum 24-hour mean PM₁₀ concentration at RWR receptors, ranked by percentage increase and by decrease in concentration

Rank	Ranking by % increase in concentration relative to Do Minimum				Ranking by % decrease in concentration relative to Do Minimum				
	2023-DS	2023-DSC	2033-DS	2033-DSC	2023-DS	2023-DSC	2033-DS	2033-DSC	
1	15.9%	22.5%	20.7%	21.5%	-17.3%	-15.6%	-16.5%	-17.2%	
2		15.8%	17.9%	19.5%		-16.0%	-15.3%	-15.4%	-16.5%
3		15.1%	17.0%	16.3%		-15.2%	-15.2%	-15.0%	-15.9%
4		14.4%	16.1%	14.5%		-14.8%	-14.6%	-15.0%	-15.5%
5		13.9%	15.6%	14.3%		-14.7%	-14.4%	-14.8%	-14.3%
6		13.4%	14.7%	13.8%		-14.5%	-13.9%	-14.7%	-14.2%
7		13.3%	14.5%	13.5%		-14.4%	-13.5%	-14.0%	-13.9%
8		13.3%	14.1%	13.3%		-14.3%	-13.5%	-13.9%	-13.8%
9		13.1%	14.1%	12.8%		-14.0%	-13.4%	-13.3%	-13.7%
10		12.8%	14.1%	12.8%		-14.0%	-13.2%	-13.1%	-13.6%

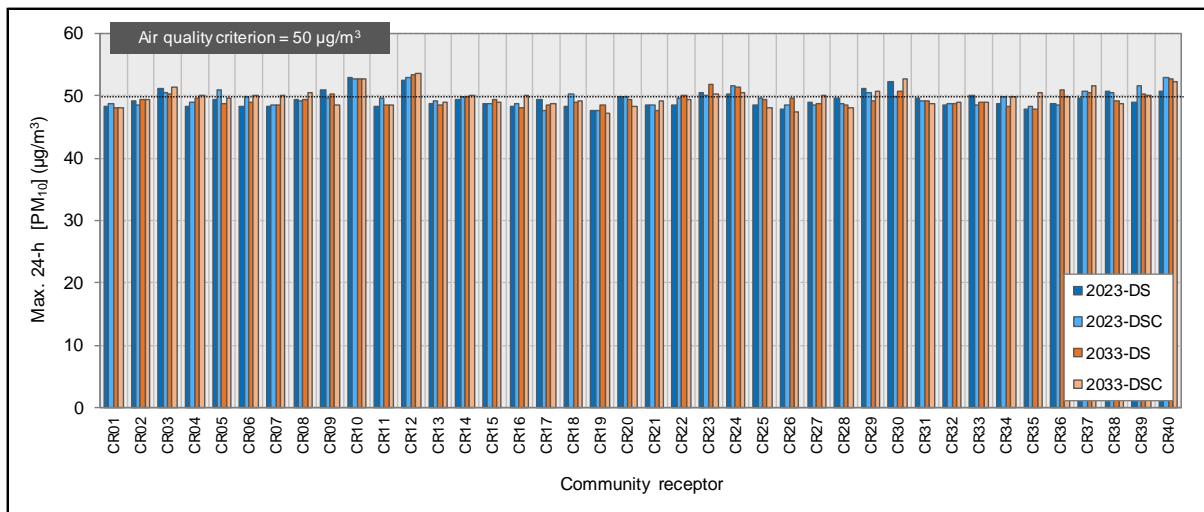


Figure K-66 Maximum 24-hour mean PM_{10} concentration at community receptors (with-project and cumulative scenarios)

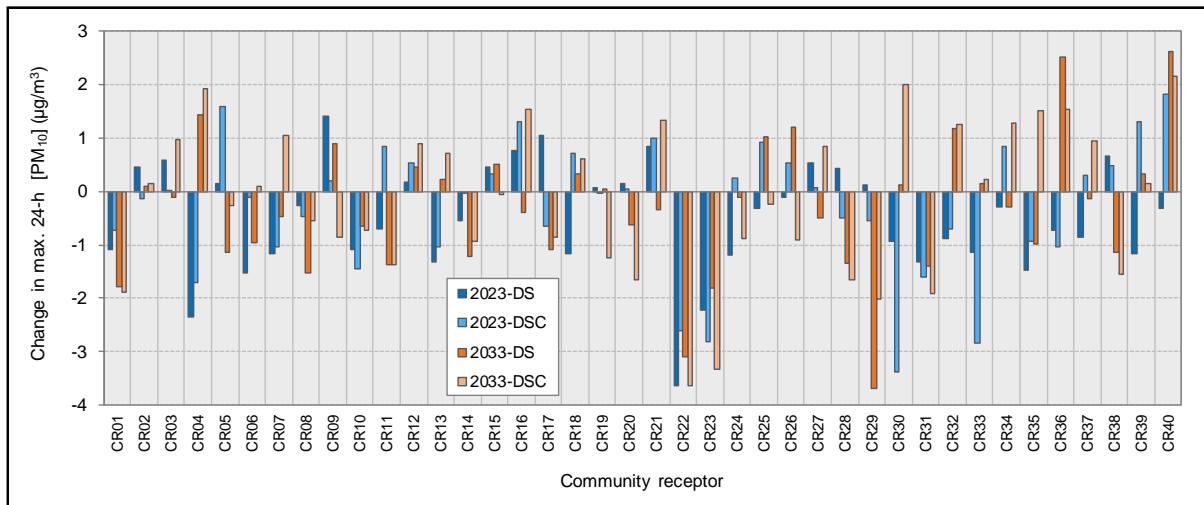


Figure K-67 Change in maximum 24-hour mean PM_{10} concentration at community receptors (with-project and cumulative scenarios, relative to Do Minimum scenarios)

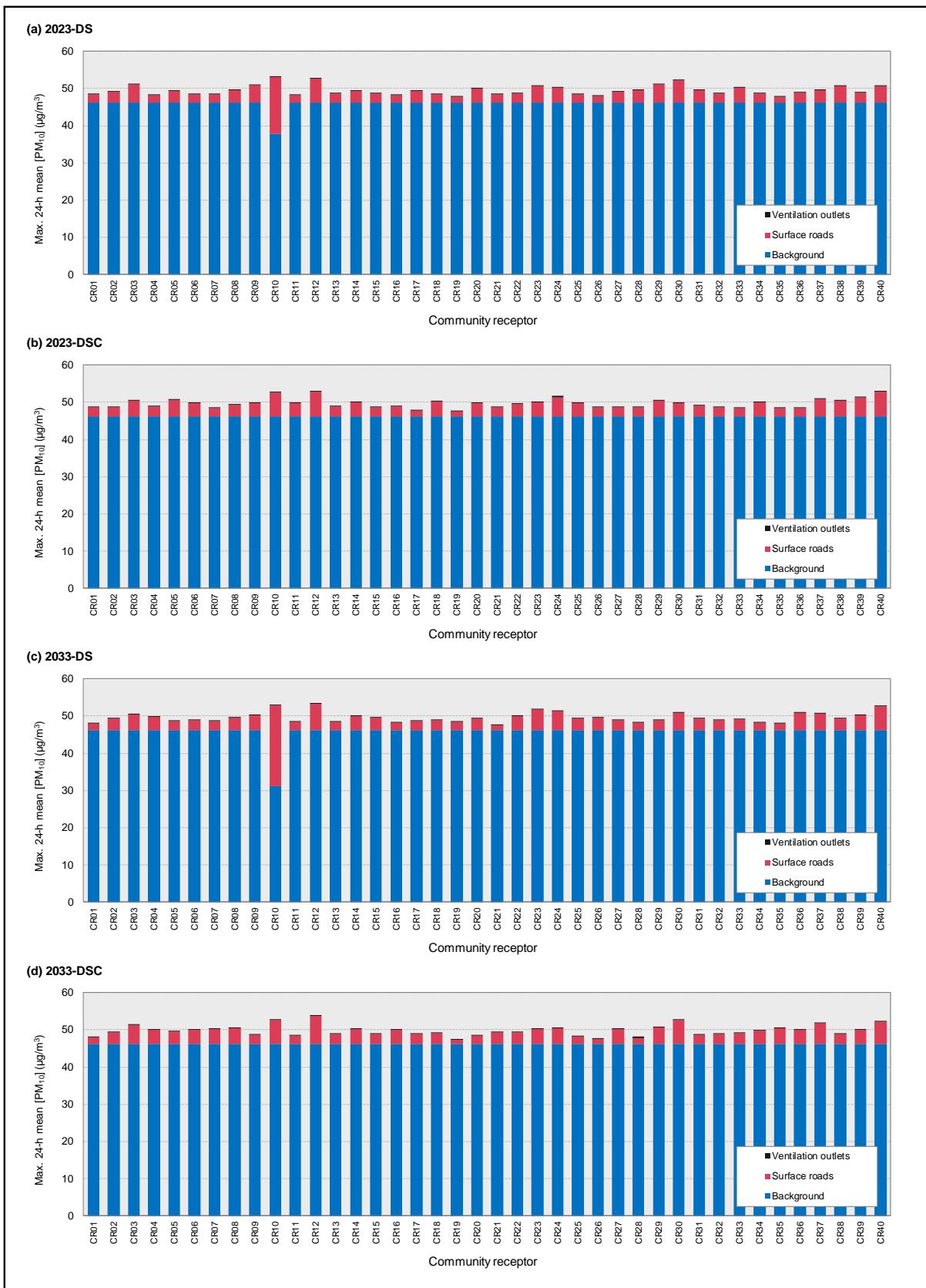


Figure K-68 Source contributions to maximum 24-hour mean PM_{10} concentration at community receptors (with-project and cumulative scenarios)

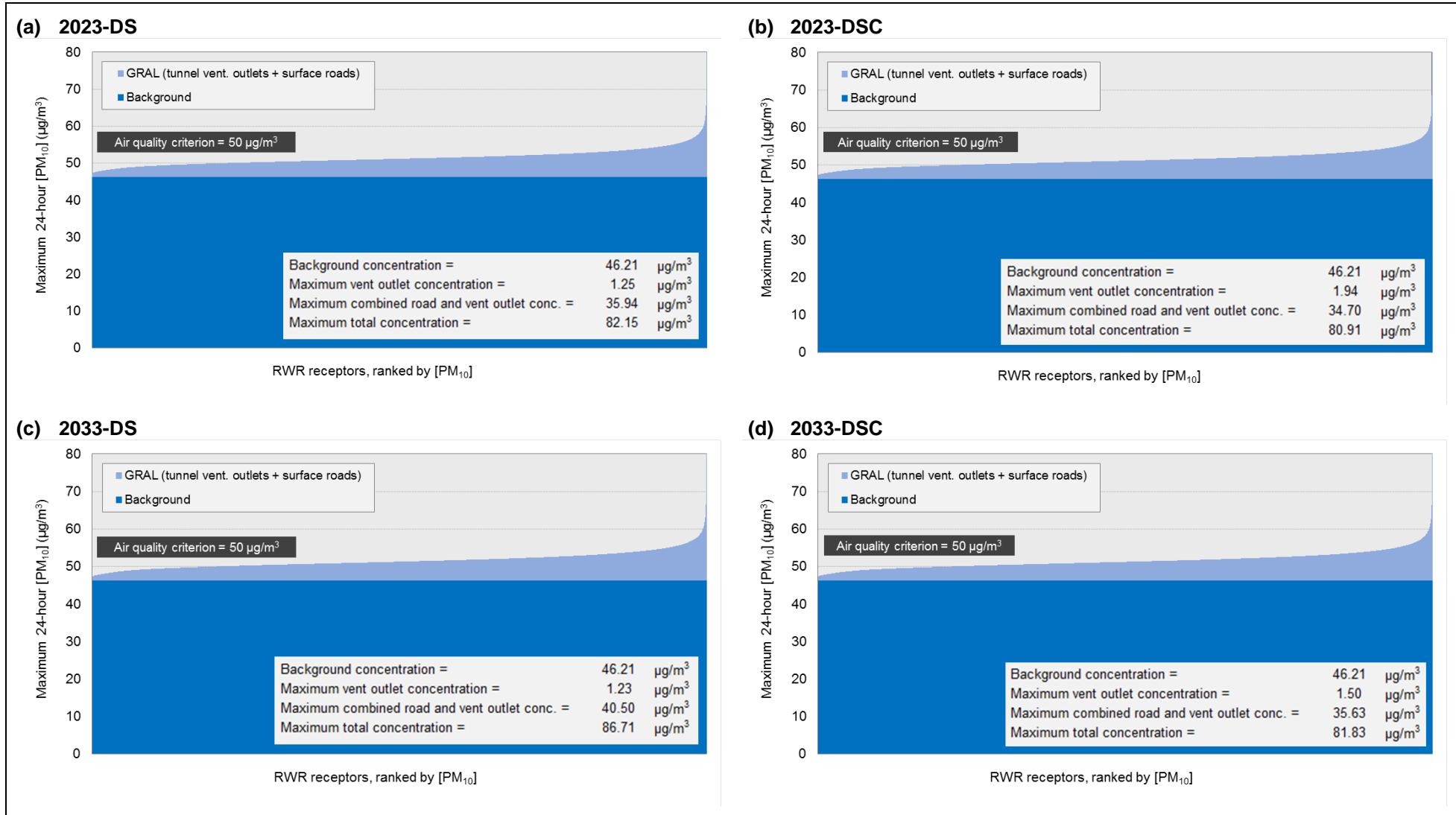


Figure K-69 Source contributions to maximum 24-hour mean PM₁₀ concentration at RWR receptors (with-project and cumulative scenarios)

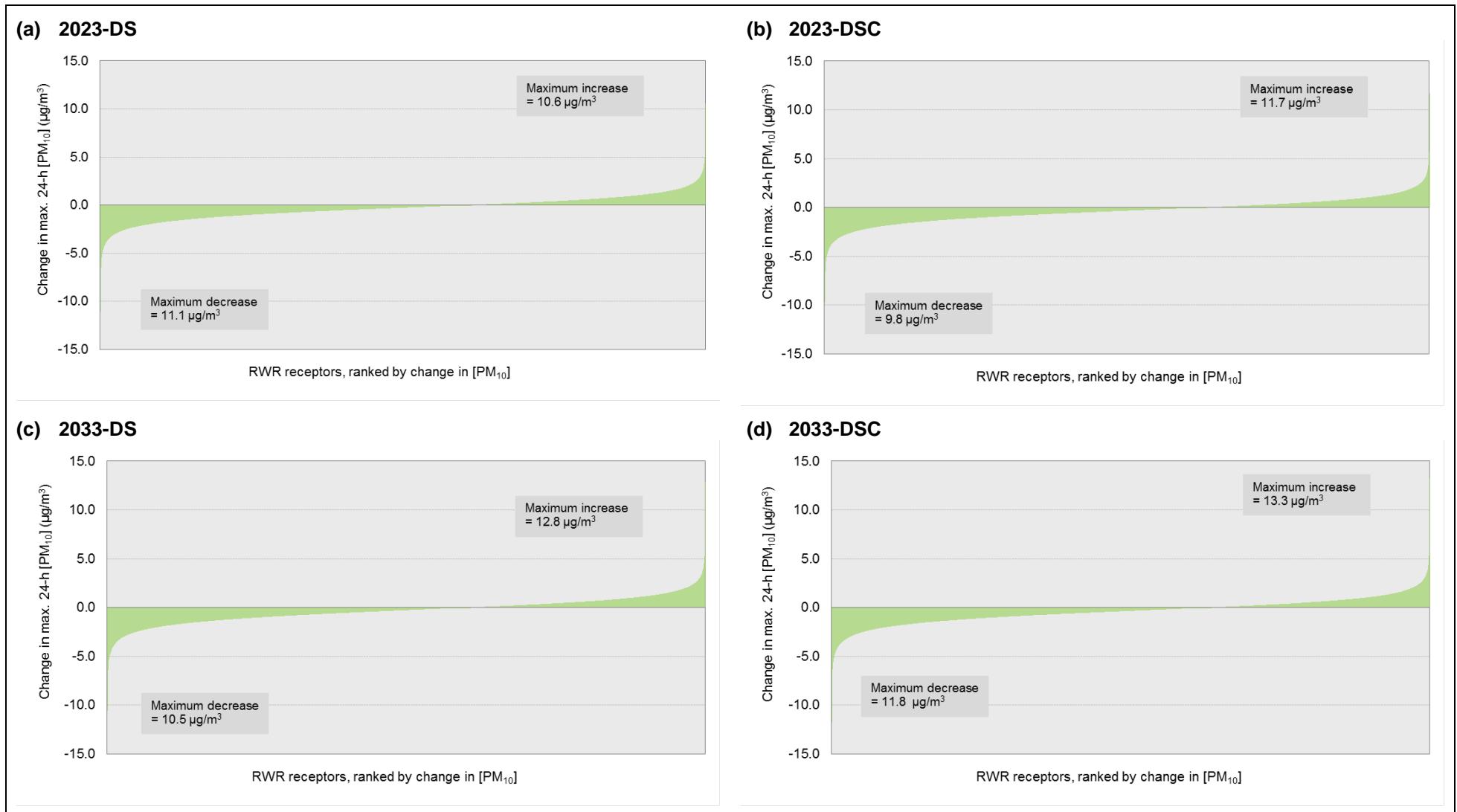


Figure K-70 Change in maximum 24-hour mean PM_{10} concentration at RWR receptors (with-project and cumulative scenarios, relative to Do Minimum scenarios)

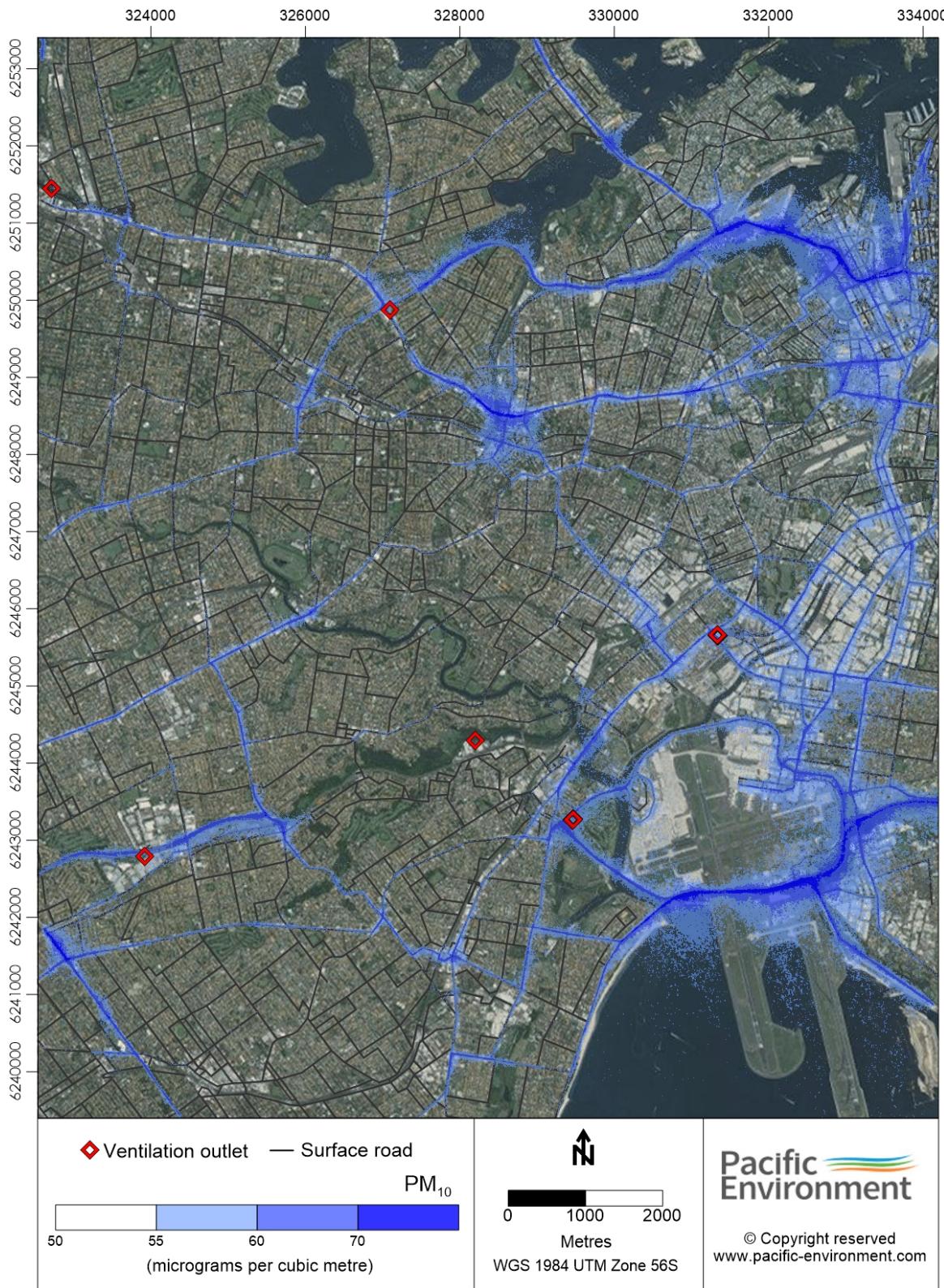


Figure K-71 Contour plot of maximum 24-hour mean PM_{10} concentration in 2023 Do Minimum scenario (all sources, 2023-DM)

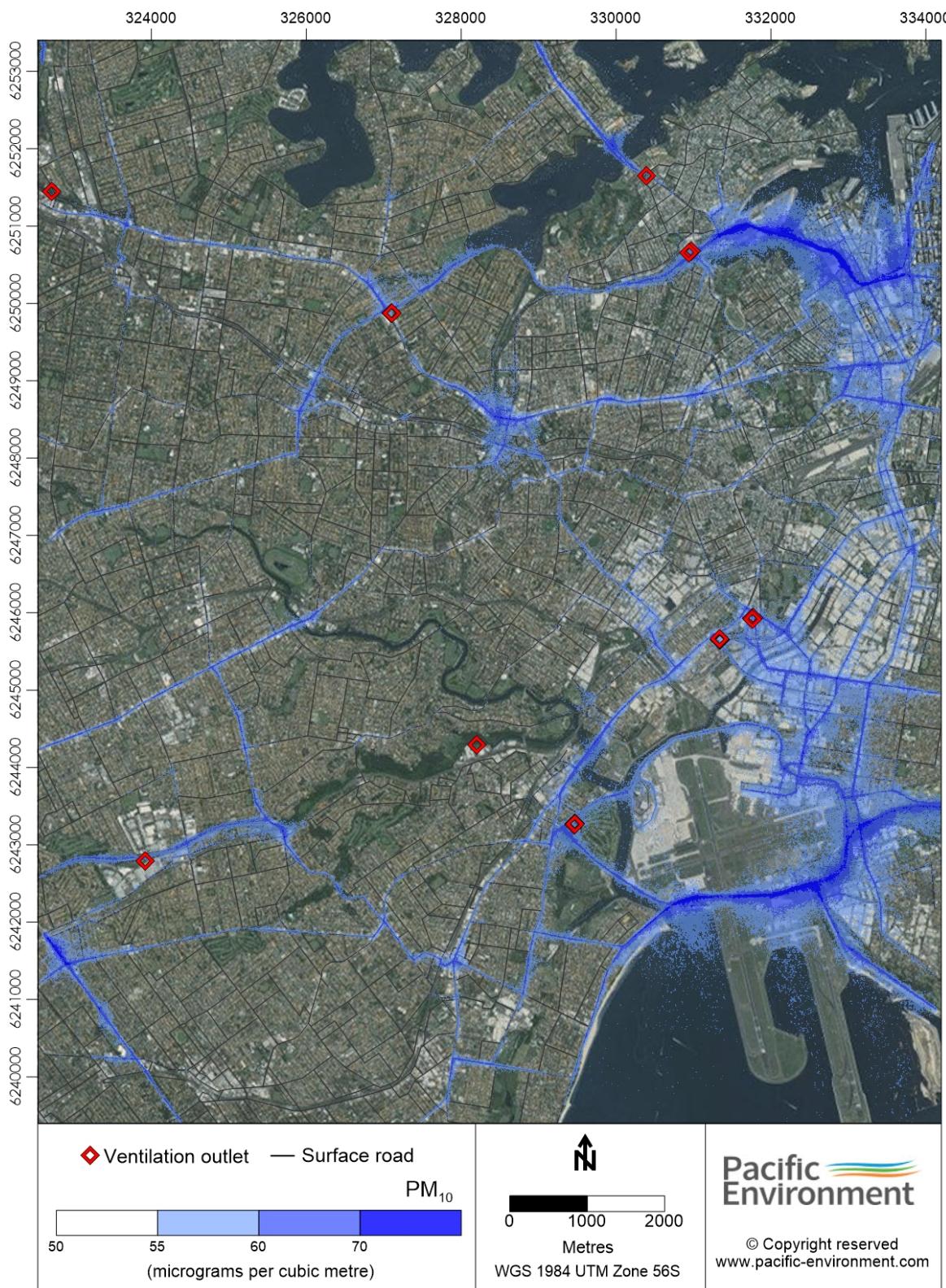


Figure K-72 Contour plot of maximum 24-hour mean PM_{10} concentration in 2023 Do Something scenario (all sources, 2023-DS)