

# **WEST MIDLANDS INTERCHANGE**

## **RESPONSE TO SOUTH STAFFORDSHIRE DISTRICT COUNCIL REVIEW – REV3**

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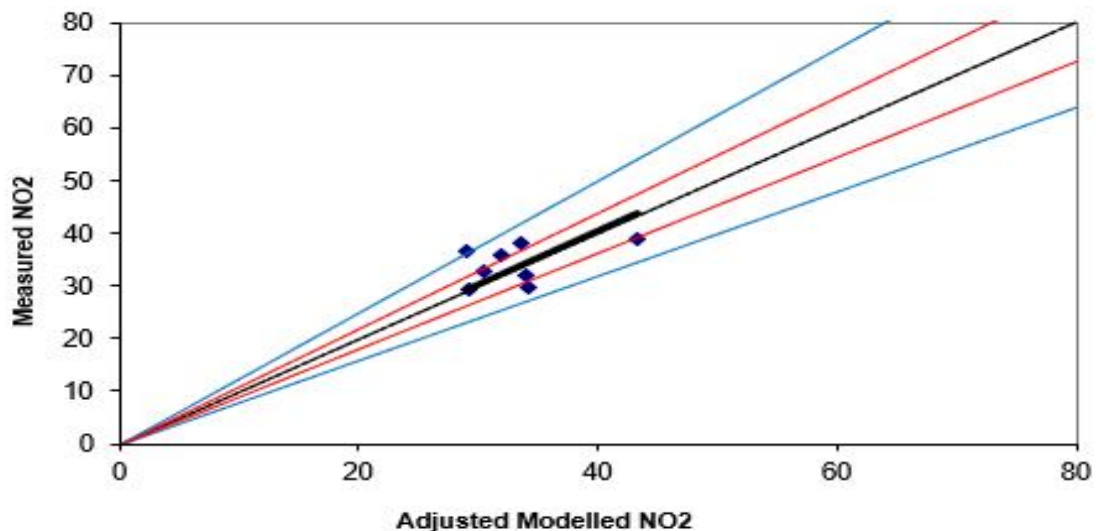
### **1 Introduction**

- 1.1** South Staffordshire District Council (SSDC) commissioned Air Quality Consultants (AQC) to undertake a review of Chapter 7 of the West Midlands Interchange (WMI) Environmental Statement (AQC reference J3582A/1/F1, dated 4 December 2018).
- 1.2** A response to the initial AQC Report was provided by Ramboll on behalf of the Applicant on 17<sup>th</sup> December 2018, the results of which have been incorporated into an updated AQC review dated 8 January 2019 (AQC reference J3582A/1/F2). A revised response note based on the original air quality modelling was prepared and issued on 24<sup>th</sup> January 2019, and a meeting held with SSDC and AQC on 21<sup>st</sup> February 2019 to discuss the results.
- 1.3** Following the meeting, it was agreed that a further review of the ES modelling would be undertaken. This was provided in a note dated 11<sup>th</sup> March 2019. A further response was received from AQC, dated 1<sup>st</sup> April 2019, and this note presents a final update of the 11<sup>th</sup> March 2019 data with respect to the SSDC area. Comments within the 1<sup>st</sup> April 2019 AQC response are addressed as follows:
- The x and y axis of the graph have now been re-labelled. For the avoidance of doubt the model verification factor was calculated and applied correctly.
  - For the motorway verification sites ES4 and PE alone, the model verification factor would have been 1.22 and therefore slightly lower results would have been reported for the motorway receptors than are reported here-in had this factor being used. However, taking into account the need to present a reasonable worst case assessment, and given that it does not adversely impact on the conclusions of the assessment, a single verification factor incorporating these monitoring points is considered acceptable.
  - Updated results at receptors 3a, 3b, PS\_42a and 41a are included in this note as per our email correspondence of 29<sup>th</sup> March 2019.
  - The results for the baseline concentration of PM<sub>10</sub> and PM<sub>2.5</sub> in 2028 have been updated. The increases in PM<sub>10</sub> and PM<sub>2.5</sub> concentrations in 2028 are now consistent with the NO<sub>2</sub> results for the same receptor location.
- 1.4** Overall there is no change to the conclusions of the 11<sup>th</sup> March 2019 note by the revisions made herein, and we acknowledge AQC's confirmation that the air quality objectives are unlikely to be exceeded in the opening year or beyond and that the overall impacts of WMI will be 'not significant'.

### **2 Adjustment to the Model Set Up**

- 2.1** In light of the discussions held at the 21<sup>st</sup> February 2019 meeting, a review of the receptor and monitoring locations has been undertaken and we have taken the opportunity to check all aspects of the model set up. As outlined in the email of 29<sup>th</sup> March 2019, where receptors are close to an elevated section of the motorway then the motorway has been raised to reflect the relative elevations between the source and receptor.

- 2.2 Initial comments within the AQC review concerned the model verification and comparison with the monitored data. Only monitoring points where we can verify the location have been used in the assessment and we have corrected monitoring point locations where the grid references provided in the SSDC Annual Status Report have proved to be incorrect. We have further reviewed the Defra guidance TG.16 concerning the use of monitoring points for model verification and in line with paragraph 7.524, all of the monitoring points have been grouped together as they are associated with trunk roads or motorways in open settings, and not urban areas. In particular, monitoring locations ES4 and PE, whilst influenced by emissions from a motorway, are not particularly close to the motorway.
- 2.3 The resultant model verification factor is 1.3833 compared to 2.2 in the ES which indicates an improved model performance, with the graph of monitored against predicted NO<sub>2</sub> concentrations shown below.



- 2.4 The following table provides a comparison of the measured and predicted concentrations in 2016, along with the model verification statistics.

<b>Table 1 – Model Verification for SSDC</b>		
<b>Monitoring Point</b>	<b>2016 Measured</b>	<b>2016 Modelled</b>
PE - Auto	39.0	43.4
HA2 - DT	37.9	33.6
HA5 - DT	31.9	34.1
HA6 - DT	29.7	34.3
SA2 - DT	32.6	30.4
SA5 - DT	36.5	29.0
SA6 - DT	29.3	29.2
ES4 - DT	35.6	31.9

**Table 1 – Model Verification for SSDC**

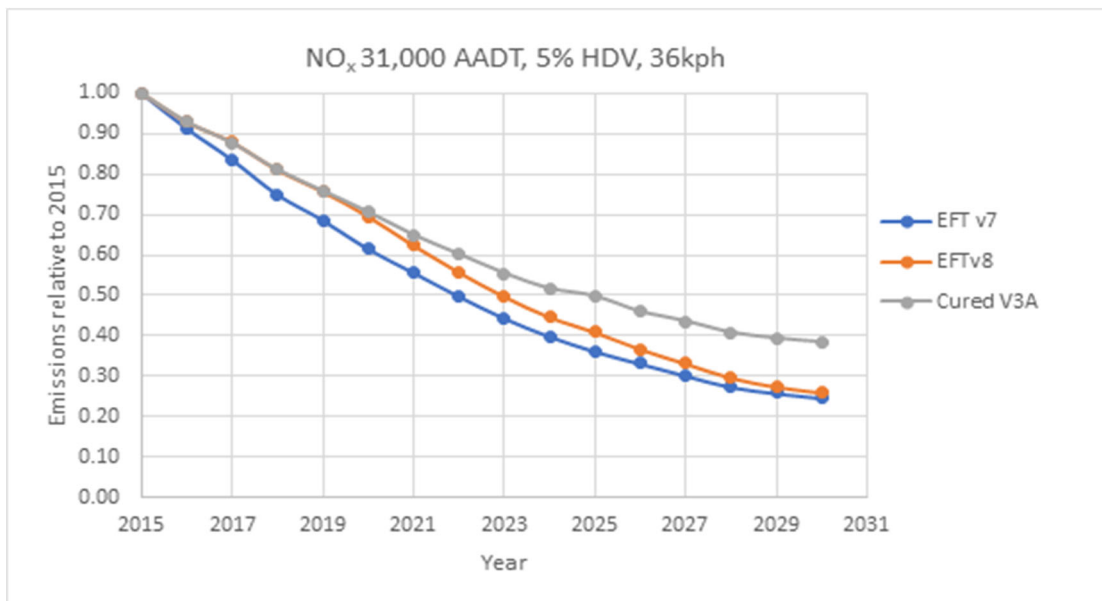
Monitoring Point	2016 Measured	2016 Modelled
<b>Verification Statistics</b>		
Correlation co-efficient		0.47
RMSE		4.2
Factional bias		0.0

- 2.5 In evaluating the model verification there are two pairs of three monitoring points close together in each of the AQMAs; HA2, HA5, HA6 and SA2, SA5 and SA6. Each monitoring point is a similar distance from the road, but the monitoring results are different. In this case, the model predicts similar results at the monitoring locations consistent with the distance from the road.
- 2.6 In terms of the overall model performance, as noted in 7.541 of TG16, in the first instance the RMSE error is statistic to evaluate. Paragraph 7.542 confirms that where the RMSE is greater than 25% of the objective (i.e.  $10\mu\text{g}/\text{m}^3$  for annual mean  $\text{NO}_2$ ), then the model set up should be re-evaluated. Ideally the RMSE should be less than  $4\mu\text{g}/\text{m}^3$ , and the calculated value is just above this which confirms an adequate overall model performance.
- 2.7 The fractional bias indicates that the model is not tending to overpredict or underpredict.
- 2.8 Finally, whilst the correlation co-efficient does not indicate a close correlation between the measured and predicted concentrations, paragraph 7.544 of TG16 indicates that that this statistic could be applied in cases where large datasets such as hourly observations are being compared. This is not the case here.
- 2.9 Overall, it is considered that the model verification is within accepted parameters.

### 3 Results

- 3.1 Model results based on the revised model parameters are presented in Appendix 1 for the human health receptors within SSDC area. Where receptors are located at the same location as monitoring points, these have been combined.
- 3.2 Whilst there are differences in the predicted concentrations at the modelled receptor locations, the pattern of the results and the development impact are consistent between the two sets of predictions.
- 3.3 For  $\text{NO}_2$  in 2021, the revised predictions show two slight impacts compared to one previously, with all other impacts negligible. There is one receptor location with a predicted exceedance in the baseline and ‘with development’ scenarios compared with three in the original modelling, but at this location the development has a negligible impact. The proposed development does not cause any additional exceedances and the impacts within the existing AQMAs are negligible. By 2028, there are no predicted exceedances and all of the impacts are negligible.
- 3.4 For  $\text{PM}_{10}$  and  $\text{PM}_{2.5}$  concentrations, all of the development impacts are negligible for all of the assessed years.
- 3.5 As discussed at our meeting, the predicted concentrations are a function of the changes in traffic over the lifetime of the development combined with how vehicle emissions are predicted to change.

- 3.6 In terms of the traffic data, it includes all potential committed developments (as per paragraph 15.125 of the ES) which in many cases are potential schemes. Furthermore, the 2021 traffic data includes all movements associated with the committed developments when many of the schemes may not be operational or complete by this time. In addition, the modelling assumes that 25% of the WMI development (if consented) will be operational in 2021. Given that consent (if granted) won't be issued until 2020 and then there is a period which requires addressing pre-commencement DCO Requirements (like planning conditions) and then the construction period, it is considered highly unlikely that 25% of the development will be operational by 2021. In terms of the traffic data therefore, the predictions for 2021 are likely to overestimate both the total pollutant concentrations and the development contribution.
- 3.7 In addition, the Defra Emissions Factor Toolkit (EFT) predicts very significant reductions in NO<sub>x</sub> emissions from the vehicle fleet. A graph of the relative NO<sub>x</sub> emissions from the vehicle fleet over time is shown below; for both the Defra EFT predictions and AQC's CURED.



- 3.8 The graph illustrates that the reduction in vehicle NO<sub>x</sub> emissions is likely to outweigh all but the most significant increases in vehicle flows, so effects (in terms of NO<sub>2</sub>) from the WMI development will reduce over time and NO<sub>2</sub> concentrations will decline even as traffic from WMI increases. This effect is illustrated in the modelling results.

## 4 Conclusions

- 4.1 As requested, the model set up has been reviewed and revised predictions made. Overall however, there are no changes to the conclusions of the original assessment and the development will not have a significant effect on pollutant concentrations in SSDC.

Ramboll

3<sup>rd</sup> April 2019

**Appendix 1 – SSDC Model Results**

<b>Table A – Predicted NO<sub>2</sub> Concentrations in 2021 – 25% Development Traffic</b>								
Receptor	Original Results				Revised Results			
	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor
PS_PE	42.9	43.0	0	negligible	36.2	36.3	0	Negligible
PS_HA2+08b	21.6	22.0	1	negligible	25.5	25.9	1	Negligible
PS_HA5	#N/A	#N/A	#N/A	#N/A	25.9	26.2	1	Negligible
PS_HA6	#N/A	#N/A	#N/A	#N/A	26.0	26.4	1	Negligible
PS_SA2+38a	23.7	23.8	0	negligible	27.1	27.1	0	Negligible
PS_SA5	23.6	23.7	0	negligible	25.7	25.7	0	Negligible
PS_SA6+38b	23.6	23.6	0	negligible	25.9	26.0	0	Negligible
PS_ES4	38.9	39.1	0	negligible	27.1	27.2	0	Negligible
PS_ES6	39.5	39.6	0	negligible	29.5	29.5	0	Negligible
PS_02a	18.5	18.7	0	negligible	22.0	22.1	0	Negligible
PS_04a	23.9	24.2	0	negligible	27.0	27.2	1	Negligible
PS_05a	24.4	26.4	5	negligible	26.0	27.5	4	Negligible
PS_06a	25.4	26.0	2	negligible	31.7	32.3	2	Slight
PS_09a	24.4	26.9	6	slight	25.2	26.9	4	Negligible

**Table A – Predicted NO<sub>2</sub> Concentrations in 2021 – 25% Development Traffic**

Receptor	Original Results				Revised Results			
	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor
PS_10a	21.0	21.3	1	negligible	18.8	19.0	1	Negligible
PS_13a	21.6	22.5	2	negligible	27.3	28.2	2	Negligible
PS_14a	26.5	27.7	3	negligible	26.2	26.8	2	Negligible
PS_14b	19.8	20.6	2	negligible	20.5	21.1	2	Negligible
PS_15b	16.9	17.1	0	negligible	19.2	19.3	0	Negligible
PS_15c	28.7	28.9	0	negligible	35.3	35.5	0	Negligible
PS_17a	20.5	21.1	1	negligible	22.4	22.9	1	Negligible
PS_17b	18.5	18.9	1	negligible	19.9	20.3	1	Negligible
PS_18a	12.2	12.5	1	negligible	12.3	12.4	0	Negligible
PS_20a	16.8	16.9	0	negligible	18.7	18.8	0	Negligible
PS_21a	13.0	13.1	0	negligible	14.1	14.1	0	Negligible
PS_21b	14.3	14.3	0	negligible	14.6	14.6	0	Negligible
PS_23a	13.7	13.8	0	negligible	14.8	14.9	0	Negligible
PS_23b	13.8	13.8	0	negligible	14.5	14.5	0	Negligible
PS_29a	12.1	12.1	0	negligible	11.8	11.8	0	Negligible

**Table A – Predicted NO<sub>2</sub> Concentrations in 2021 – 25% Development Traffic**

Receptor	Original Results				Revised Results			
	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor
PS_29b	9.4	9.4	0	negligible	9.7	9.8	0	Negligible
PS_30a	13.1	13.1	0	negligible	12.9	12.9	0	Negligible
PS_30b	13.0	13.1	0	negligible	12.4	12.4	0	Negligible
PS_31b	12.8	12.8	0	negligible	13.6	13.6	0	Negligible
PS_32a	18.2	18.4	0	negligible	22.2	22.3	0	Negligible
PS_32b	16.9	17.1	0	negligible	19.8	19.9	0	Negligible
PS_33a	19.1	19.4	1	negligible	21.1	21.3	1	Negligible
PS_34a	20.6	20.8	1	negligible	22.4	22.7	1	Negligible
PS_34b	18.0	18.3	1	negligible	19.7	20.0	1	Negligible
PS_40b	37.8	37.9	0	negligible	28.4	28.4	0	Negligible
PS_40c	27.3	27.4	0	negligible	34.0	34.1	0	Negligible
PS_42a	34.3	34.4	0	negligible	33.9	34.0	0	Negligible
PS_42d	23.3	23.4	0	negligible	30.2	30.3	0	Negligible
PS_61a	18.3	18.5	0	negligible	22.4	22.5	0	Negligible
PS_62a	26.7	26.7	0	negligible	34.8	34.8	0	Negligible

**Table A – Predicted NO<sub>2</sub> Concentrations in 2021 – 25% Development Traffic**

Receptor	Original Results				Revised Results			
	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor
PS_64b	28.2	28.2	0	negligible	34.3	34.4	0	Negligible
02b	21.1	21.4	1	negligible	22.3	22.6	1	Negligible
03a	<b>40.4</b>	<b>40.5</b>	0	negligible	33.9	33.9	0	Negligible
03b	26.5	26.5	0	negligible	33.2	33.3	0	Negligible
08a	26.3	26.7	1	negligible	30.7	31.1	1	Negligible
08c	24.3	24.8	1	negligible	27.7	28.1	1	Negligible
09b	24.1	25.8	4	negligible	19.7	21.1	4	Negligible
10b	22.6	22.8	0	negligible	24.9	25.0	0	Negligible
12a	19.8	20.7	2	negligible	21.4	22.1	2	Negligible
13b	22.5	23.6	3	negligible	23.9	24.9	2	Negligible
15a	20.2	20.4	0	negligible	25.4	25.5	0	Negligible
16a	20.4	21.1	2	negligible	19.4	19.9	1	Negligible
19a	28.1	29.0	2	negligible	28.6	29.4	2	Negligible
19b	22.1	22.7	1	negligible	20.9	21.3	1	Negligible
19c	22.3	22.9	1	negligible	20.8	21.2	1	Negligible



**Table A – Predicted NO<sub>2</sub> Concentrations in 2021 – 25% Development Traffic**

Receptor	Original Results				Revised Results			
	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor
20b	15.9	15.9	0	negligible	17.0	17.1	0	Negligible
22a	17.3	17.4	0	negligible	18.3	18.4	0	Negligible
22b	16.7	16.8	0	negligible	18.9	19.0	0	Negligible
24a	25.8	26.6	2	negligible	30.8	31.4	2	Slight
24b	29.8	30.4	2	negligible	24.9	25.5	1	Negligible
31a	13.7	13.7	0	negligible	19.2	19.3	0	Negligible
32c	29.4	29.6	0	negligible	32.8	32.9	0	Negligible
33b	19.9	20.2	1	negligible	17.9	18.1	1	Negligible
35b	9.4	9.5	0	negligible	21.7	21.7	0	Negligible
41a	<b>44.5</b>	<b>44.7</b>	0	negligible	34.5	34.6	0	Negligible
42b	27.4	27.5	0	negligible	36.7	36.8	0	Negligible
42c	34.6	34.8	0	negligible	<b>44.9</b>	<b>45.0</b>	0	Negligible
43a	35.4	35.8	1	negligible	36.7	36.9	1	Negligible
43b	32.2	32.5	1	negligible	30.9	31.1	0	Negligible
44a	32.2	32.4	0	negligible	32.9	33.0	0	Negligible

<b>Table A – Predicted NO<sub>2</sub> Concentrations in 2021 – 25% Development Traffic</b>								
<b>Receptor</b>	<b>Original Results</b>				<b>Revised Results</b>			
	<b>2021 Baseline</b>	<b>2021 With Development</b>	<b>Development Contribution (%)</b>	<b>Impact Descriptor</b>	<b>2021 Baseline</b>	<b>2021 With Development</b>	<b>Development Contribution (%)</b>	<b>Impact Descriptor</b>
45a	19.9	19.9	0	negligible	24.3	24.3	0	Negligible

**Table B – Predicted NO<sub>2</sub> Concentrations in 2028 – 50% Development Traffic**

Receptor	Original Results				Revised Results			
	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor
PS_PE	25.1	25.3	0	negligible	22.8	23.0	1	Negligible
PS_HA2+08b	14.5	14.9	1	negligible	16.7	17.2	1	Negligible
PS_HA5	#N/A	#N/A	#N/A	#N/A	16.9	17.4	1	Negligible
PS_HA6	#N/A	#N/A	#N/A	#N/A	17.0	17.4	1	Negligible
PS_SA2+38a	15.5	15.5	0	negligible	17.3	17.4	0	Negligible
PS_SA5	15.4	15.5	0	negligible	16.6	16.7	0	Negligible
PS_SA6+38b	15.4	15.5	0	negligible	16.8	16.8	0	Negligible
PS_ES4	23.9	24.0	0	negligible	18.4	18.5	0	Negligible
PS_ES6	24.1	24.3	0	negligible	19.7	19.8	0	Negligible
PS_02a	12.0	12.3	1	negligible	14.2	14.4	1	Negligible
PS_04a	15.8	16.0	1	negligible	17.6	17.8	1	Negligible
PS_05a	16.6	18.7	5	negligible	17.7	19.0	3	Negligible
PS_06a	16.7	17.4	2	negligible	20.4	21.2	2	Negligible
PS_09a	16.6	18.7	5	negligible	17.1	17.8	2	Negligible
PS_10a	13.7	14.2	1	negligible	12.6	12.8	1	Negligible

**Table B – Predicted NO<sub>2</sub> Concentrations in 2028 – 50% Development Traffic**

Receptor	Original Results				Revised Results			
	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor
PS_13a	16.1	16.9	2	negligible	19.2	19.7	1	Negligible
PS_14a	18.3	19.6	3	negligible	18.3	18.9	2	Negligible
PS_14b	15.5	16.4	2	negligible	16.0	16.6	1	Negligible
PS_15b	13.5	13.6	0	negligible	14.8	14.9	0	Negligible
PS_15c	18.5	18.8	0	negligible	22.9	23.1	1	Negligible
PS_17a	15.4	15.7	1	negligible	16.5	16.8	1	Negligible
PS_17b	14.3	14.4	0	negligible	15.1	15.2	0	Negligible
PS_18a	9.4	9.5	0	negligible	9.4	9.5	0	Negligible
PS_20a	13.3	13.4	0	negligible	14.3	14.4	0	Negligible
PS_21a	10.0	10.0	0	negligible	10.6	10.6	0	Negligible
PS_21b	10.8	10.8	0	negligible	10.9	11.0	0	Negligible
PS_23a	10.4	10.5	0	negligible	11.1	11.1	0	Negligible
PS_23b	10.8	10.8	0	negligible	11.2	11.2	0	Negligible
PS_29a	9.3	9.3	0	negligible	9.2	9.2	0	Negligible
PS_29b	7.0	7.0	0	negligible	7.2	7.2	0	Negligible

**Table B – Predicted NO<sub>2</sub> Concentrations in 2028 – 50% Development Traffic**

Receptor	Original Results				Revised Results			
	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor
PS_30a	9.9	9.9	0	negligible	9.7	9.7	0	Negligible
PS_30b	9.8	9.8	0	negligible	9.5	9.5	0	Negligible
PS_31b	9.7	9.7	0	negligible	10.2	10.2	0	Negligible
PS_32a	12.8	13.0	0	negligible	15.1	15.3	0	Negligible
PS_32b	12.1	12.4	0	negligible	13.8	14.0	1	Negligible
PS_33a	13.2	13.6	1	negligible	14.3	14.7	1	Negligible
PS_34a	13.7	14.1	1	negligible	14.8	15.1	1	Negligible
PS_34b	12.4	12.9	1	negligible	13.4	13.7	1	Negligible
PS_40b	23.4	23.5	0	negligible	19.1	19.2	0	Negligible
PS_40c	17.9	17.9	0	negligible	22.1	22.2	0	Negligible
PS_42a	20.2	20.4	0	negligible	24.9	25.0	0	Negligible
PS_42d	15.1	15.2	0	negligible	19.3	19.5	0	Negligible
PS_61a	13.0	13.0	0	negligible	15.3	15.3	0	Negligible
PS_62a	17.7	17.8	0	negligible	22.8	22.8	0	Negligible
PS_64b	19.8	19.8	0	negligible	23.6	23.7	0	Negligible

**Table B – Predicted NO<sub>2</sub> Concentrations in 2028 – 50% Development Traffic**

Receptor	Original Results				Revised Results			
	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor
02b	14.1	14.6	1	negligible	14.9	15.3	1	Negligible
03a	23.8	24.0	0	negligible	30.9	31.0	0	Negligible
03b	16.7	16.8	0	negligible	21.2	21.3	0	Negligible
08a	17.9	18.4	1	negligible	20.6	21.1	1	Negligible
08c	15.6	16.2	1	negligible	17.6	18.2	1	Negligible
09b	15.9	16.4	1	negligible	12.0	12.3	1	Negligible
10b	13.9	14.2	1	negligible	17.7	17.9	1	Negligible
12a	14.8	15.6	2	negligible	16.0	16.3	1	Negligible
13b	16.6	17.8	3	negligible	17.4	18.5	3	Negligible
15a	15.0	15.2	0	negligible	18.7	18.9	0	Negligible
16a	15.8	16.1	1	negligible	14.6	14.7	0	Negligible
19a	19.5	20.4	2	negligible	19.8	20.6	2	Negligible
19b	16.2	16.7	1	negligible	15.5	15.8	1	Negligible
19c	16.3	16.8	1	negligible	15.0	15.4	1	Negligible
20b	12.3	12.3	0	negligible	12.9	13.0	0	Negligible

**Table B – Predicted NO<sub>2</sub> Concentrations in 2028 – 50% Development Traffic**

Receptor	Original Results				Revised Results			
	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor
22a	13.1	13.2	0	negligible	13.6	13.7	0	Negligible
22b	12.7	12.8	0	negligible	14.0	14.1	0	Negligible
24a	17.7	18.4	2	negligible	21.6	22.0	1	Negligible
24b	20.9	21.4	1	negligible	16.3	16.8	1	Negligible
31a	10.2	10.2	0	negligible	13.4	13.4	0	Negligible
32c	18.2	18.4	0	negligible	20.8	21.0	0	Negligible
33b	13.3	13.8	1	negligible	11.5	11.8	1	Negligible
35b	7.1	7.1	0	negligible	15.8	15.8	0	Negligible
41a	26.9	27.2	0	negligible	30.5	30.7	0	Negligible
42b	17.2	17.4	0	negligible	23.7	23.8	0	Negligible
42c	21.1	21.4	1	negligible	28.4	28.6	0	Negligible
43a	21.9	22.3	1	negligible	23.5	23.8	1	Negligible
43b	20.2	20.5	1	negligible	18.9	19.1	1	Negligible
44a	20.1	20.3	0	negligible	20.0	20.1	0	Negligible
45a	13.9	13.9	0	negligible	16.5	16.5	0	Negligible

**Table C – Predicted NO<sub>2</sub> Concentrations in 2036 – 100% Development Traffic**

Receptor	Original Results				Revised Results			
	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor
PS_PE	22.8	23.0	0	negligible	20.8	21.1	1	Negligible
PS_HA2+08b	13.6	14.0	1	negligible	15.5	16.0	1	Negligible
PS_HA5	#N/A	#N/A	#N/A	#N/A	15.7	16.2	1	Negligible
PS_HA6	#N/A	#N/A	#N/A	#N/A	15.7	16.3	1	Negligible
PS_SA2+38a	14.4	14.5	0	negligible	16.0	16.1	0	Negligible
PS_SA5	14.3	14.4	0	negligible	15.4	15.5	0	Negligible
PS_SA6+38b	14.3	14.4	0	negligible	15.5	15.6	0	Negligible
PS_ES4	21.9	22.1	0	negligible	17.2	17.3	0	Negligible
PS_ES6	22.1	22.3	0	negligible	18.3	18.4	0	Negligible
PS_02a	11.1	11.4	1	negligible	13.0	13.3	1	Negligible
PS_04a	14.6	14.9	1	negligible	16.2	16.5	1	Negligible
PS_05a	15.5	18.0	6	slight adverse	16.5	18.0	4	Negligible
PS_06a	15.5	16.4	2	negligible	18.8	19.7	2	Negligible
PS_09a	15.5	18.2	7	slight adverse	16.0	16.8	2	Negligible
PS_10a	12.6	13.2	1	negligible	11.6	11.9	1	Negligible



**Table C – Predicted NO<sub>2</sub> Concentrations in 2036 – 100% Development Traffic**

Receptor	Original Results				Revised Results			
	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor
PS_13a	15.2	16.1	2	negligible	17.9	18.5	2	Negligible
PS_14a	17.1	18.6	4	negligible	17.1	17.9	2	Negligible
PS_14b	14.9	15.9	3	negligible	15.3	16.0	2	Negligible
PS_15b	13.0	13.2	0	negligible	14.2	14.3	0	Negligible
PS_15c	17.2	17.5	1	negligible	21.1	21.4	1	Negligible
PS_17a	14.6	15.0	1	negligible	15.5	15.9	1	Negligible
PS_17b	13.6	13.8	0	negligible	14.3	14.4	0	Negligible
PS_18a	8.9	9.1	0	negligible	9.0	9.1	0	Negligible
PS_20a	12.7	12.9	0	negligible	13.6	13.7	0	Negligible
PS_21a	9.5	9.6	0	negligible	10.0	10.1	0	Negligible
PS_21b	10.2	10.3	0	negligible	10.4	10.5	0	Negligible
PS_23a	9.9	10.0	0	negligible	10.5	10.6	0	Negligible
PS_23b	10.3	10.4	0	negligible	10.7	10.7	0	Negligible
PS_29a	8.9	8.9	0	negligible	8.8	8.8	0	Negligible
PS_29b	6.6	6.6	0	negligible	6.8	6.8	0	Negligible

**Table C – Predicted NO<sub>2</sub> Concentrations in 2036 – 100% Development Traffic**

Receptor	Original Results				Revised Results			
	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor
PS_30a	9.3	9.4	0	negligible	9.3	9.3	0	Negligible
PS_30b	9.3	9.3	0	negligible	9.0	9.1	0	Negligible
PS_31b	9.2	9.2	0	negligible	9.6	9.6	0	Negligible
PS_32a	12.0	12.2	1	negligible	14.1	14.3	1	Negligible
PS_32b	11.5	11.7	1	negligible	12.9	13.2	1	Negligible
PS_33a	12.4	12.8	1	negligible	13.4	13.8	1	Negligible
PS_34a	12.6	13.1	1	negligible	13.6	14.0	1	Negligible
PS_34b	11.6	12.1	1	negligible	12.5	12.8	1	Negligible
PS_40b	21.5	21.7	0	negligible	17.8	17.9	0	Negligible
PS_40c	16.6	16.7	0	negligible	20.4	20.5	0	Negligible
PS_42a	18.4	18.6	0	negligible	22.7	22.8	0	Negligible
PS_42d	14.0	14.1	0	negligible	17.8	17.9	0	Negligible
PS_61a	12.2	12.3	0	negligible	14.2	14.3	0	Negligible
PS_62a	16.5	16.6	0	negligible	21.0	21.1	0	Negligible
PS_64b	18.6	18.7	0	negligible	22.0	22.1	0	Negligible

**Table C – Predicted NO<sub>2</sub> Concentrations in 2036 – 100% Development Traffic**

Receptor	Original Results				Revised Results			
	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor
02b	13.1	13.6	1	negligible	13.8	14.2	1	Negligible
03a	21.6	21.8	0	negligible	28.1	28.3	0	Negligible
03b	15.4	15.5	0	negligible	19.4	19.6	0	Negligible
08a	16.8	17.3	1	negligible	19.2	19.7	1	Negligible
08c	14.4	15.1	2	negligible	16.2	16.9	2	Negligible
09b	14.7	15.4	2	negligible	11.0	11.3	1	Negligible
10b	12.6	13.0	1	negligible	16.6	16.8	1	Negligible
12a	14.1	15.0	2	negligible	15.1	15.5	1	Negligible
13b	15.6	17.1	4	negligible	16.5	17.7	3	Negligible
15a	14.3	14.5	0	negligible	17.7	17.9	0	Negligible
16a	15.2	15.5	1	negligible	13.9	14.0	0	Negligible
19a	18.1	19.2	3	negligible	18.4	19.3	2	Negligible
19b	15.2	15.9	2	negligible	14.7	15.0	1	Negligible
19c	15.3	16.0	2	negligible	14.1	14.5	1	Negligible
20b	11.7	11.8	0	negligible	12.3	12.4	0	Negligible

**Table C – Predicted NO<sub>2</sub> Concentrations in 2036 – 100% Development Traffic**

Receptor	Original Results				Revised Results			
	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor
22a	12.4	12.5	0	negligible	12.9	13.0	0	Negligible
22b	12.1	12.2	0	negligible	13.3	13.4	0	Negligible
24a	16.5	17.3	2	negligible	20.2	20.7	1	Negligible
24b	19.6	20.2	2	negligible	15.0	15.6	1	Negligible
31a	9.6	9.7	0	negligible	12.5	12.5	0	Negligible
32c	16.7	16.9	0	negligible	19.1	19.3	1	Negligible
33b	12.4	12.9	1	negligible	10.6	11.0	1	Negligible
35b	6.8	6.8	0	negligible	15.0	15.0	0	Negligible
41a	24.7	24.9	1	negligible	27.9	28.1	1	Negligible
42b	15.9	16.0	0	negligible	21.8	21.9	0	Negligible
42c	19.4	19.8	1	negligible	26.0	26.2	1	Negligible
43a	20.1	20.6	1	negligible	21.6	22.0	1	Negligible
43b	18.6	19.0	1	negligible	17.2	17.5	1	Negligible
44a	18.6	18.8	1	negligible	18.1	18.3	1	Negligible
45a	13.1	13.1	0	negligible	15.4	15.4	0	Negligible

**Table D – Predicted PM<sub>10</sub> Concentrations in 2021– 25% Development Traffic**

Receptor	Original Results				Revised Results			
	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor
PS_PE	23.2	23.2	0	negligible	18.1	18.1	0	Negligible
PS_HA2+08b	16.1	16.2	0	negligible	16.4	16.5	0	Negligible
PS_HA5	#N/A	#N/A	#N/A	#N/A	16.5	16.6	0	Negligible
PS_HA6	#N/A	#N/A	#N/A	#N/A	16.6	16.7	0	Negligible
PS_SA2+38a	16.9	17.0	0	negligible	17.3	17.4	0	Negligible
PS_SA5	16.9	16.9	0	negligible	17.0	17.0	0	Negligible
PS_SA6+38b	16.9	16.9	0	negligible	17.0	17.1	0	Negligible
PS_ES4	22.7	22.8	0	negligible	17.7	17.8	0	Negligible
PS_ES6	22.9	23.0	0	negligible	18.0	18.0	0	Negligible
PS_02a	15.0	15.0	0	negligible	14.8	14.8	0	Negligible
PS_04a	17.8	17.9	0	negligible	18.0	18.1	0	Negligible
PS_05a	17.0	17.6	2	negligible	16.7	17.2	1	Negligible
PS_06a	17.2	17.4	0	negligible	17.6	17.8	1	Negligible
PS_09a	16.8	17.2	1	negligible	16.7	17.1	1	Negligible
PS_10a	16.6	16.7	0	negligible	15.8	15.9	0	Negligible

**Table D – Predicted PM<sub>10</sub> Concentrations in 2021– 25% Development Traffic**

Receptor	Original Results				Revised Results			
	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor	2021 Baseline	2021` With Development	Development Contribution (%)	Impact Descriptor
PS_13a	15.6	15.9	1	negligible	16.8	17.2	1	Negligible
PS_14a	17.0	17.5	1	negligible	16.1	16.4	1	Negligible
PS_14b	14.1	14.4	1	negligible	14.0	14.2	1	Negligible
PS_15b	14.3	14.3	0	negligible	14.1	14.1	0	Negligible
PS_15c	19.1	19.2	0	negligible	18.3	18.3	0	Negligible
PS_17a	15.4	15.6	0	negligible	15.6	15.8	1	Negligible
PS_17b	14.9	15.1	0	negligible	15.0	15.1	0	Negligible
PS_18a	12.9	12.9	0	negligible	12.6	12.7	0	Negligible
PS_20a	14.2	14.2	0	negligible	14.3	14.4	0	Negligible
PS_21a	13.9	13.9	0	negligible	13.9	13.9	0	Negligible
PS_21b	14.2	14.2	0	negligible	14.0	14.0	0	Negligible
PS_23a	14.0	14.1	0	negligible	14.0	14.0	0	Negligible
PS_23b	13.1	13.1	0	negligible	12.9	12.9	0	Negligible
PS_29a	12.8	12.8	0	negligible	12.6	12.6	0	Negligible
PS_29b	12.1	12.1	0	negligible	12.0	12.0	0	Negligible

**Table D – Predicted PM<sub>10</sub> Concentrations in 2021– 25% Development Traffic**

Receptor	Original Results				Revised Results			
	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor	2021 Baseline	2021` With Development	Development Contribution (%)	Impact Descriptor
PS_30a	13.0	13.0	0	negligible	12.8	12.8	0	Negligible
PS_30b	13.0	13.0	0	negligible	12.7	12.7	0	Negligible
PS_31b	13.0	13.0	0	negligible	13.0	13.0	0	Negligible
PS_32a	14.7	14.7	0	negligible	14.6	14.6	0	Negligible
PS_32b	14.3	14.4	0	negligible	14.5	14.5	0	Negligible
PS_33a	14.9	14.9	0	negligible	14.9	14.9	0	Negligible
PS_34a	15.0	15.0	0	negligible	15.0	15.1	0	Negligible
PS_34b	14.3	14.3	0	negligible	14.4	14.4	0	Negligible
PS_40b	22.3	22.3	0	negligible	18.0	18.0	0	Negligible
PS_40c	18.8	18.8	0	negligible	18.5	18.5	0	Negligible
PS_42a	21.2	21.3	0	negligible	17.6	17.6	0	Negligible
PS_42d	17.4	17.4	0	negligible	17.1	17.1	0	Negligible
PS_61a	15.3	15.4	0	negligible	15.4	15.4	0	Negligible
PS_62a	19.0	19.0	0	negligible	18.5	18.5	0	Negligible
PS_64b	18.1	18.1	0	negligible	17.4	17.4	0	Negligible

**Table D – Predicted PM<sub>10</sub> Concentrations in 2021– 25% Development Traffic**

Receptor	Original Results				Revised Results			
	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor
02b	15.1	15.2	0	negligible	14.9	15.0	0	Negligible
03a	22.3	22.4	0	negligible	17.1	17.1	0	Negligible
03b	17.9	18.0	0	negligible	16.3	16.3	0	Negligible
08a	17.1	17.2	0	negligible	16.9	17.0	0	Negligible
08c	17.1	17.2	0	negligible	17.4	17.6	0	Negligible
09b	16.6	17.0	1	negligible	16.4	16.8	1	Negligible
10b	15.6	15.7	0	negligible	14.5	14.5	0	Negligible
12a	14.6	14.7	0	negligible	14.6	14.8	0	Negligible
13b	15.8	16.2	1	negligible	15.9	16.3	1	Negligible
15a	15.1	15.2	0	negligible	14.8	14.8	0	Negligible
16a	14.3	14.5	0	negligible	13.9	14.1	0	Negligible
19a	16.9	17.3	1	negligible	16.7	17.1	1	Negligible
19b	15.4	15.6	1	negligible	14.8	15.0	0	Negligible
19c	15.4	15.7	1	negligible	15.0	15.2	0	Negligible
20b	13.7	13.7	0	negligible	13.6	13.6	0	Negligible



**Table D – Predicted PM<sub>10</sub> Concentrations in 2021– 25% Development Traffic**

Receptor	Original Results				Revised Results			
	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor
22a	14.0	14.0	0	negligible	13.9	14.0	0	Negligible
22b	13.9	13.9	0	negligible	13.9	13.9	0	Negligible
24a	16.3	16.6	1	negligible	15.8	16.1	1	Negligible
24b	18.4	18.7	1	negligible	18.4	18.7	1	Negligible
31a	13.2	13.2	0	negligible	13.1	13.1	0	Negligible
32c	19.1	19.1	0	negligible	18.0	18.0	0	Negligible
33b	14.8	14.8	0	negligible	14.5	14.5	0	Negligible
35b	11.6	11.6	0	negligible	11.5	11.5	0	Negligible
41a	24.1	24.2	0	negligible	18.7	18.7	0	Negligible
42b	18.3	18.3	0	negligible	17.3	17.4	0	Negligible
42c	20.9	20.9	0	negligible	18.8	18.9	0	Negligible
43a	21.2	21.3	0	negligible	18.8	18.9	0	Negligible
43b	20.2	20.3	0	negligible	18.8	18.9	0	Negligible
44a	22.3	22.3	0	negligible	21.3	21.3	0	Negligible
45a	17.2	17.2	0	negligible	17.2	17.2	0	Negligible

**Table E – Predicted PM<sub>10</sub> Concentrations in 2028 – 50% Development Traffic**

Receptor	Original Results				Revised Results			
	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor
PS_PE	22.6	22.8	0	negligible	17.7	17.8	0	Negligible
PS_HA2+08b	15.9	16.1	1	negligible	16.1	16.4	1	Negligible
PS_HA5	#N/A	#N/A	#N/A	#N/A	16.2	16.5	1	Negligible
PS_HA6	#N/A	#N/A	#N/A	#N/A	16.2	16.5	1	Negligible
PS_SA2+38a	16.7	16.7	0	negligible	17.1	17.1	0	Negligible
PS_SA5	16.7	16.7	0	negligible	16.7	16.8	0	Negligible
PS_SA6+38b	16.7	16.7	0	negligible	16.8	16.8	0	Negligible
PS_ES4	22.4	22.5	0	negligible	17.5	17.6	0	Negligible
PS_ES6	22.6	22.7	0	negligible	17.8	17.8	0	Negligible
PS_02a	14.7	14.8	0	negligible	14.5	14.6	0	Negligible
PS_04a	17.5	17.6	0	negligible	17.7	17.8	0	Negligible
PS_05a	16.7	18.0	3	negligible	16.4	17.4	3	Negligible
PS_06a	16.9	17.4	1	negligible	17.2	17.8	2	Negligible
PS_09a	16.5	16.8	1	negligible	16.4	16.7	1	Negligible
PS_10a	16.3	16.5	1	negligible	15.5	15.7	0	Negligible

**Table E – Predicted PM<sub>10</sub> Concentrations in 2028 – 50% Development Traffic**

Receptor	Original Results				Revised Results			
	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor
PS_13a	15.3	15.8	1	negligible	16.5	17.0	1	Negligible
PS_14a	16.7	18.0	3	negligible	15.9	16.5	2	Negligible
PS_14b	13.8	14.5	2	negligible	13.6	14.2	1	Negligible
PS_15b	14.0	14.1	0	negligible	13.9	13.9	0	Negligible
PS_15c	18.8	19.0	0	negligible	17.9	18.1	0	Negligible
PS_17a	15.1	15.3	0	negligible	15.3	15.5	1	Negligible
PS_17b	14.7	14.7	0	negligible	14.7	14.8	0	Negligible
PS_18a	12.6	12.7	0	negligible	12.4	12.5	0	Negligible
PS_20a	13.9	14.0	0	negligible	14.1	14.1	0	Negligible
PS_21a	13.6	13.6	0	negligible	13.6	13.7	0	Negligible
PS_21b	14.0	14.0	0	negligible	13.7	13.8	0	Negligible
PS_23a	13.8	13.9	0	negligible	13.8	13.8	0	Negligible
PS_23b	12.9	12.9	0	negligible	12.8	12.8	0	Negligible
PS_29a	12.6	12.6	0	negligible	12.4	12.4	0	Negligible
PS_29b	11.9	11.9	0	negligible	11.8	11.8	0	Negligible

**Table E – Predicted PM<sub>10</sub> Concentrations in 2028 – 50% Development Traffic**

Receptor	Original Results				Revised Results			
	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor
PS_30a	12.8	12.8	0	negligible	12.6	12.6	0	Negligible
PS_30b	12.8	12.8	0	negligible	12.5	12.5	0	Negligible
PS_31b	12.8	12.8	0	negligible	12.8	12.8	0	Negligible
PS_32a	14.5	14.5	0	negligible	14.3	14.4	0	Negligible
PS_32b	14.1	14.2	0	negligible	14.2	14.3	0	Negligible
PS_33a	14.6	14.8	0	negligible	14.6	14.7	0	Negligible
PS_34a	14.7	14.9	1	negligible	14.7	14.9	1	Negligible
PS_34b	14.0	14.2	0	negligible	14.1	14.3	0	Negligible
PS_40b	21.9	22.0	0	negligible	17.8	17.8	0	Negligible
PS_40c	18.5	18.6	0	negligible	18.2	18.3	0	Negligible
PS_42a	20.8	20.9	0	negligible	17.2	17.2	0	Negligible
PS_42d	17.1	17.1	0	negligible	16.8	16.8	0	Negligible
PS_61a	15.1	15.1	0	negligible	15.1	15.2	0	Negligible
PS_62a	18.7	18.8	0	negligible	18.2	18.3	0	Negligible
PS_64b	17.9	17.9	0	negligible	17.1	17.2	0	Negligible

**Table E – Predicted PM<sub>10</sub> Concentrations in 2028 – 50% Development Traffic**

Receptor	Original Results				Revised Results			
	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor
02b	14.8	15.1	1	negligible	14.6	14.8	1	Negligible
03a	21.8	21.9	0	negligible	14.3	14.3	0	Negligible
03b	17.6	17.7	0	negligible	14.3	14.3	0	Negligible
08a	16.8	17.1	1	negligible	16.6	16.9	1	Negligible
08c	16.8	17.1	1	negligible	17.1	17.5	1	Negligible
09b	16.3	16.5	1	negligible	16.1	16.3	1	Negligible
10b	15.3	15.6	1	negligible	14.2	14.4	1	Negligible
12a	14.3	14.6	1	negligible	14.4	14.6	1	Negligible
13b	15.5	16.3	2	negligible	15.6	16.4	2	Negligible
15a	14.9	15.0	0	negligible	14.5	14.6	0	Negligible
16a	14.0	14.0	0	negligible	13.6	13.6	0	Negligible
19a	16.5	17.1	1	negligible	16.4	16.9	1	Negligible
19b	15.1	15.4	1	negligible	14.6	14.8	0	Negligible
19c	15.2	15.5	1	negligible	14.8	15.0	1	Negligible
20b	13.5	13.5	0	negligible	13.4	13.4	0	Negligible

**Table E – Predicted PM<sub>10</sub> Concentrations in 2028 – 50% Development Traffic**

Receptor	Original Results				Revised Results			
	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor
22a	13.8	13.8	0	negligible	13.7	13.8	0	Negligible
22b	13.6	13.7	0	negligible	13.7	13.7	0	Negligible
24a	16.0	16.5	1	negligible	15.5	15.9	1	Negligible
24b	18.2	18.6	1	negligible	18.2	18.5	1	Negligible
31a	12.9	13.0	0	negligible	12.8	12.8	0	Negligible
32c	18.7	18.8	0	negligible	17.6	17.6	0	Negligible
33b	14.5	14.7	0	negligible	14.2	14.4	0	Negligible
35b	11.4	11.4	0	negligible	11.3	11.3	0	Negligible
41a	23.7	23.9	1	negligible	18.5	18.6	0	Negligible
42b	17.9	18.0	0	negligible	17.0	17.0	0	Negligible
42c	20.5	20.6	0	negligible	18.4	18.5	0	Negligible
43a	20.8	21.1	1	negligible	18.4	18.6	0	Negligible
43b	19.9	20.1	1	negligible	18.4	18.6	0	Negligible
44a	22.2	22.4	0	negligible	21.1	21.2	0	Negligible
45a	17.0	17.0	0	negligible	17.0	17.0	0	Negligible

**Table F – Predicted PM<sub>10</sub> Concentrations in 2036 – 100% Development Traffic**

Receptor	Original Results				Revised Results			
	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor
PS_PE	22.6	22.8	0	negligible	17.7	17.8	0	Negligible
PS_HA2+08b	15.8	16.2	1	negligible	16.1	16.4	1	Negligible
PS_HA5	#N/A	#N/A	#N/A	#N/A	16.2	16.5	1	Negligible
PS_HA6	#N/A	#N/A	#N/A	#N/A	16.2	16.6	1	Negligible
PS_SA2+38a	16.7	16.7	0	negligible	17.1	17.1	0	Negligible
PS_SA5	16.7	16.7	0	negligible	16.7	16.8	0	Negligible
PS_SA6+38b	16.7	16.7	0	negligible	16.8	16.8	0	Negligible
PS_ES4	22.4	22.6	1	negligible	17.5	17.6	0	Negligible
PS_ES6	22.5	22.8	1	negligible	17.8	17.8	0	Negligible
PS_02a	14.7	14.9	1	negligible	14.4	14.6	0	Negligible
PS_04a	17.4	17.6	1	negligible	17.6	17.8	1	Negligible
PS_05a	16.7	18.4	4	negligible	16.4	17.8	4	Negligible
PS_06a	16.9	17.6	2	negligible	17.2	18.0	2	Negligible
PS_09a	16.5	16.9	1	negligible	16.3	16.8	1	Negligible
PS_10a	16.3	16.6	1	negligible	15.5	15.7	1	Negligible

**Table F – Predicted PM<sub>10</sub> Concentrations in 2036 – 100% Development Traffic**

Receptor	Original Results				Revised Results			
	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor
PS_13a	15.3	15.9	2	negligible	16.5	17.1	1	Negligible
PS_14a	16.7	18.4	4	negligible	15.8	16.7	2	Negligible
PS_14b	13.7	14.6	2	negligible	13.6	14.3	2	Negligible
PS_15b	14.0	14.1	0	negligible	13.9	13.9	0	Negligible
PS_15c	18.8	19.0	1	negligible	17.9	18.1	0	Negligible
PS_17a	15.1	15.3	1	negligible	15.3	15.6	1	Negligible
PS_17b	14.7	14.7	0	negligible	14.7	14.8	0	Negligible
PS_18a	12.6	12.7	0	negligible	12.4	12.4	0	Negligible
PS_20a	13.9	14.0	0	negligible	14.1	14.1	0	Negligible
PS_21a	13.6	13.6	0	negligible	13.6	13.6	0	Negligible
PS_21b	13.9	14.0	0	negligible	13.7	13.8	0	Negligible
PS_23a	13.8	13.8	0	negligible	13.8	13.8	0	Negligible
PS_23b	12.8	12.9	0	negligible	12.7	12.7	0	Negligible
PS_29a	12.6	12.6	0	negligible	12.3	12.4	0	Negligible
PS_29b	11.8	11.8	0	negligible	11.8	11.8	0	Negligible



**Table F – Predicted PM<sub>10</sub> Concentrations in 2036 – 100% Development Traffic**

Receptor	Original Results				Revised Results			
	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor
PS_30a	12.8	12.8	0	negligible	12.5	12.6	0	Negligible
PS_30b	12.8	12.8	0	negligible	12.5	12.5	0	Negligible
PS_31b	12.7	12.7	0	negligible	12.7	12.7	0	Negligible
PS_32a	14.4	14.5	0	negligible	14.3	14.4	0	Negligible
PS_32b	14.1	14.2	0	negligible	14.2	14.3	0	Negligible
PS_33a	14.6	14.8	1	negligible	14.6	14.8	1	Negligible
PS_34a	14.7	14.9	1	negligible	14.7	15.0	1	Negligible
PS_34b	14.0	14.2	1	negligible	14.1	14.3	1	Negligible
PS_40b	21.9	22.1	0	negligible	17.8	17.8	0	Negligible
PS_40c	18.5	18.6	0	negligible	18.2	18.3	0	Negligible
PS_42a	20.7	20.8	0	negligible	17.2	17.2	0	Negligible
PS_42d	17.0	17.1	0	negligible	16.7	16.8	0	Negligible
PS_61a	15.1	15.1	0	negligible	15.1	15.2	0	Negligible
PS_62a	18.7	18.8	0	negligible	18.2	18.3	0	Negligible
PS_64b	17.9	17.9	0	negligible	17.1	17.2	0	Negligible

**Table F – Predicted PM<sub>10</sub> Concentrations in 2036 – 100% Development Traffic**

Receptor	Original Results				Revised Results			
	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor
02b	14.8	15.1	1	negligible	14.6	14.9	1	Negligible
03a	21.8	21.9	0	negligible	14.2	14.2	0	Negligible
03b	17.6	17.6	0	negligible	14.2	14.2	0	Negligible
08a	16.7	17.2	1	negligible	16.6	17.0	1	Negligible
08c	16.7	17.2	1	negligible	17.1	17.6	1	Negligible
09b	16.2	16.6	1	negligible	16.1	16.4	1	Negligible
10b	15.2	15.6	1	negligible	14.1	14.4	1	Negligible
12a	14.3	14.6	1	negligible	14.3	14.7	1	Negligible
13b	15.5	16.5	3	negligible	15.6	16.6	3	Negligible
15a	14.9	15.0	0	negligible	14.5	14.6	0	Negligible
16a	13.9	14.0	0	negligible	13.5	13.6	0	Negligible
19a	16.5	17.3	2	negligible	16.4	17.1	2	Negligible
19b	15.1	15.5	1	negligible	14.6	14.8	1	Negligible
19c	15.1	15.6	1	negligible	14.7	15.1	1	Negligible
20b	13.5	13.5	0	negligible	13.4	13.4	0	Negligible

**Table F – Predicted PM<sub>10</sub> Concentrations in 2036 – 100% Development Traffic**

Receptor	Original Results				Revised Results			
	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor
22a	13.8	13.8	0	negligible	13.7	13.8	0	Negligible
22b	13.6	13.7	0	negligible	13.6	13.7	0	Negligible
24a	16.0	16.6	2	negligible	15.5	16.0	1	Negligible
24b	18.2	18.7	1	negligible	18.2	18.6	1	Negligible
31a	12.9	12.9	0	negligible	12.8	12.8	0	Negligible
32c	18.7	18.8	0	negligible	17.5	17.7	0	Negligible
33b	14.5	14.7	1	negligible	14.2	14.4	1	Negligible
35b	11.3	11.3	0	negligible	11.2	11.2	0	Negligible
41a	23.7	24.0	1	negligible	18.5	18.6	0	Negligible
42b	17.9	18.0	0	negligible	16.9	17.0	0	Negligible
42c	20.4	20.6	0	negligible	18.4	18.5	0	Negligible
43a	20.8	21.2	1	negligible	18.4	18.6	1	Negligible
43b	19.8	20.2	1	negligible	18.4	18.6	1	Negligible
44a	22.3	22.5	0	negligible	21.2	21.3	0	Negligible
45a	17.0	17.0	0	negligible	17.0	17.0	0	Negligible

**Table G – Predicted PM<sub>2.5</sub> Concentrations in 2021 – 25% Development Traffic**

Receptor	Original Results				Revised Results			
	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor
PS_PE	10.4	10.4	0	Negligible	11.5	11.6	0	Negligible
PS_HA2+08b	#N/A	#N/A	0	Negligible	10.6	10.6	0	Negligible
PS_HA5	#N/A	#N/A	#N/A	#N/A	10.6	10.7	0	Negligible
PS_HA6	10.8	10.8	#N/A	#N/A	10.6	10.7	0	Negligible
PS_SA2+38a	10.8	10.8	0	Negligible	11.0	11.0	0	Negligible
PS_SA5	10.7	10.8	0	Negligible	10.8	10.8	0	Negligible
PS_SA6+38b	14.0	14.0	0	Negligible	10.8	10.9	0	Negligible
PS_ES4	14.1	14.1	0	Negligible	11.3	11.3	0	Negligible
PS_ES6	9.7	9.8	0	Negligible	11.5	11.5	0	Negligible
PS_02a	11.2	11.3	0	Negligible	9.7	9.7	0	Negligible
PS_04a	10.9	11.2	0	Negligible	11.4	11.4	0	Negligible
PS_05a	10.9	11.0	1	Negligible	10.8	11.0	1	Negligible
PS_06a	10.8	11.0	0	Negligible	11.2	11.4	1	Negligible
PS_09a	10.5	10.5	1	Negligible	10.7	11.0	1	Negligible
PS_10a	10.4	10.5	0	Negligible	10.1	10.1	0	Negligible

**Table G – Predicted PM<sub>2.5</sub> Concentrations in 2021 – 25% Development Traffic**

Receptor	Original Results				Revised Results			
	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor
PS_13a	10.9	11.1	1	Negligible	11.1	11.3	1	Negligible
PS_14a	9.4	9.6	1	Negligible	10.4	10.6	1	Negligible
PS_14b	9.6	9.6	1	Negligible	9.4	9.5	0	Negligible
PS_15b	12.0	12.0	0	Negligible	9.6	9.6	0	Negligible
PS_15c	10.3	10.4	0	Negligible	11.7	11.7	0	Negligible
PS_17a	10.0	10.1	0	Negligible	10.4	10.5	0	Negligible
PS_17b	8.6	8.6	0	Negligible	10.0	10.1	0	Negligible
PS_18a	9.5	9.5	0	Negligible	8.5	8.5	0	Negligible
PS_20a	9.4	9.4	0	Negligible	9.6	9.6	0	Negligible
PS_21a	9.3	9.3	0	Negligible	9.4	9.4	0	Negligible
PS_21b	9.2	9.2	0	Negligible	9.2	9.2	0	Negligible
PS_23a	8.7	8.7	0	Negligible	9.2	9.2	0	Negligible
PS_23b	8.7	8.7	0	Negligible	8.6	8.7	0	Negligible
PS_29a	8.0	8.0	0	Negligible	8.6	8.6	0	Negligible
PS_29b	8.8	8.8	0	Negligible	8.0	8.0	0	Negligible

**Table G – Predicted PM<sub>2.5</sub> Concentrations in 2021 – 25% Development Traffic**

Receptor	Original Results				Revised Results			
	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor
PS_30a	8.8	8.8	0	Negligible	8.7	8.7	0	Negligible
PS_30b	8.8	8.8	0	Negligible	8.6	8.6	0	Negligible
PS_31b	9.8	9.8	0	Negligible	8.8	8.8	0	Negligible
PS_32a	9.6	9.6	0	Negligible	9.8	9.8	0	Negligible
PS_32b	9.9	9.9	0	Negligible	9.7	9.7	0	Negligible
PS_33a	9.7	9.8	0	Negligible	9.9	9.9	0	Negligible
PS_34a	9.3	9.4	0	Negligible	9.8	9.8	0	Negligible
PS_34b	13.7	13.7	0	Negligible	9.4	9.5	0	Negligible
PS_40b	11.7	11.8	0	Negligible	11.4	11.4	0	Negligible
PS_40c	13.1	13.1	0	Negligible	11.7	11.8	0	Negligible
PS_42a	11.0	11.0	0	Negligible	11.3	11.3	0	Negligible
PS_42d	9.9	10.0	0	Negligible	10.9	11.0	0	Negligible
PS_61a	11.9	11.9	0	Negligible	10.0	10.0	0	Negligible
PS_62a	11.5	11.5	0	Negligible	11.8	11.8	0	Negligible
PS_64b	10.0	10.1	0	Negligible	11.2	11.3	0	Negligible

**Table G – Predicted PM<sub>2.5</sub> Concentrations in 2021 – 25% Development Traffic**

Receptor	Original Results				Revised Results			
	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor
02b	13.7	13.7	0	Negligible	9.9	10.0	0	Negligible
03a	11.3	11.3	0	Negligible	11.0	11.0	0	Negligible
03b	10.9	11.0	0	Negligible	10.5	10.5	0	Negligible
08a	10.8	10.9	0	Negligible	10.9	11.0	0	Negligible
08c	10.7	10.9	0	Negligible	11.1	11.2	0	Negligible
09b	10.0	10.0	1	Negligible	10.6	10.8	1	Negligible
10b	9.6	9.7	0	Negligible	9.4	9.4	0	Negligible
12a	10.5	10.7	0	Negligible	9.7	9.8	0	Negligible
13b	10.1	10.1	1	Negligible	10.6	10.8	1	Negligible
15a	9.5	9.6	0	Negligible	10.0	10.0	0	Negligible
16a	11.0	11.2	0	Negligible	9.3	9.4	0	Negligible
19a	10.2	10.3	1	Negligible	10.9	11.1	1	Negligible
19b	10.2	10.3	0	Negligible	9.9	10.0	0	Negligible
19c	9.1	9.1	0	Negligible	10.0	10.1	0	Negligible
20b	9.3	9.3	0	Negligible	9.1	9.1	0	Negligible

**Table G – Predicted PM<sub>2.5</sub> Concentrations in 2021 – 25% Development Traffic**

Receptor	Original Results				Revised Results			
	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor
22a	9.2	9.2	0	Negligible	9.3	9.3	0	Negligible
22b	10.5	10.7	0	Negligible	9.3	9.3	0	Negligible
24a	11.7	11.8	1	Negligible	10.3	10.4	1	Negligible
24b	8.9	8.9	1	Negligible	11.8	11.9	1	Negligible
31a	11.9	11.9	0	Negligible	8.8	8.8	0	Negligible
32c	9.8	9.8	0	Negligible	11.5	11.5	0	Negligible
33b	7.8	7.8	0	Negligible	9.7	9.7	0	Negligible
35b	14.7	14.8	0	Negligible	7.7	7.7	0	Negligible
41a	11.5	11.5	0	Negligible	11.9	11.9	0	Negligible
42b	12.9	12.9	0	Negligible	11.2	11.2	0	Negligible
42c	13.1	13.2	0	Negligible	12.0	12.0	0	Negligible
43a	12.6	12.7	0	Negligible	12.0	12.1	0.16	Negligible
43b	12.6	12.7	0	Negligible	12.1	12.1	0.16	Negligible
44a	11.1	11.1	0	Negligible	12.3	12.3	0	Negligible
45a	10.4	10.4	0	Negligible	11.1	11.1	0	Negligible



**Table H – Predicted PM<sub>2.5</sub> Concentrations in 2028 – 50% Development Traffic**

Receptor	Original Results				Revised Results			
	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor
PS_PE	13.7	13.7	0	Negligible	10.6	11.2	2	Negligible
PS_HA2+08b	10.1	10.2	1	Negligible	10.2	10.4	1	Negligible
PS_HA5	#N/A	#N/A	#N/A	#N/A	10.3	10.4	1	Negligible
PS_HA6	#N/A	#N/A	#N/A	#N/A	10.3	10.5	1	Negligible
PS_SA2+38a	10.5	10.5	0	Negligible	10.7	10.7	0	Negligible
PS_SA5	10.5	10.5	0	Negligible	10.5	10.5	0	Negligible
PS_SA6+38b	10.5	10.5	0	Negligible	10.5	10.6	0	Negligible
PS_ES4	13.5	13.6	0	Negligible	11.0	11.0	0	Negligible
PS_ES6	13.6	13.7	0	Negligible	11.1	11.2	0	Negligible
PS_02a	9.5	9.5	0	Negligible	9.4	9.5	0	Negligible
PS_04a	10.9	11.0	0	Negligible	11.0	11.1	0	Negligible
PS_05a	10.6	11.3	3	Negligible	10.5	11.0	2	Negligible
PS_06a	10.6	10.9	1	Negligible	10.9	11.2	1	Negligible
PS_09a	10.5	10.7	1	Negligible	10.4	10.6	1	Negligible
PS_10a	10.2	10.3	0	Negligible	9.8	9.9	0	Negligible

**Table H – Predicted PM<sub>2.5</sub> Concentrations in 2028 – 50% Development Traffic**

Receptor	Original Results				Revised Results			
	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor
PS_13a	10.1	10.4	1	Negligible	10.7	11.0	1	Negligible
PS_14a	10.6	11.2	3	Negligible	10.1	10.5	1	Negligible
PS_14b	9.1	9.5	1	Negligible	9.0	9.3	1	Negligible
PS_15b	9.4	9.4	0	Negligible	9.3	9.4	0	Negligible
PS_15c	11.7	11.7	0	Negligible	11.3	11.4	0	Negligible
PS_17a	10.0	10.1	0	Negligible	10.1	10.2	1	Negligible
PS_17b	9.7	9.8	0	Negligible	9.8	9.8	0	Negligible
PS_18a	8.4	8.4	0	Negligible	8.3	8.3	0	Negligible
PS_20a	9.3	9.3	0	Negligible	9.4	9.4	0	Negligible
PS_21a	9.1	9.1	0	Negligible	9.1	9.1	0	Negligible
PS_21b	9.1	9.1	0	Negligible	9.0	9.0	0	Negligible
PS_23a	9.0	9.0	0	Negligible	9.0	9.0	0	Negligible
PS_23b	8.5	8.5	0	Negligible	8.4	8.4	0	Negligible
PS_29a	8.5	8.5	0	Negligible	8.4	8.4	0	Negligible
PS_29b	7.8	7.8	0	Negligible	7.8	7.8	0	Negligible

**Table H – Predicted PM<sub>2.5</sub> Concentrations in 2028 – 50% Development Traffic**

Receptor	Original Results				Revised Results			
	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor
PS_30a	8.6	8.6	0	Negligible	8.5	8.5	0	Negligible
PS_30b	8.6	8.6	0	Negligible	8.4	8.4	0	Negligible
PS_31b	8.6	8.6	0	Negligible	8.6	8.6	0	Negligible
PS_32a	9.5	9.6	0	Negligible	9.5	9.5	0	Negligible
PS_32b	9.3	9.4	0	Negligible	9.4	9.5	0	Negligible
PS_33a	9.6	9.7	0	Negligible	9.6	9.7	0	Negligible
PS_34a	9.4	9.6	0	Negligible	9.5	9.6	0	Negligible
PS_34b	9.1	9.2	0	Negligible	9.2	9.3	0	Negligible
PS_40b	13.3	13.3	0	Negligible	11.1	11.1	0	Negligible
PS_40c	11.4	11.4	0	Negligible	11.4	11.4	0	Negligible
PS_42a	12.7	12.7	0	Negligible	10.9	10.9	0	Negligible
PS_42d	10.7	10.7	0	Negligible	10.6	10.6	0	Negligible
PS_61a	9.7	9.7	0	Negligible	9.7	9.7	0	Negligible
PS_62a	11.6	11.6	0	Negligible	11.4	11.4	0	Negligible
PS_64b	11.2	11.3	0	Negligible	10.9	11.0	0	Negligible

**Table H – Predicted PM<sub>2.5</sub> Concentrations in 2028 – 50% Development Traffic**

Receptor	Original Results				Revised Results			
	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor
02b	9.7	9.9	1	Negligible	9.6	9.7	0	Negligible
03a	13.2	13.3	0	Negligible	10.6	10.6	0	Negligible
03b	11.0	11.0	0	Negligible	9.8	9.9	0	Negligible
08a	10.6	10.7	1	Negligible	10.6	10.7	1	Negligible
08c	10.5	10.7	1	Negligible	10.7	10.9	1	Negligible
09b	10.4	10.5	1	Negligible	10.3	10.5	1	Negligible
10b	9.7	9.8	1	Negligible	9.1	9.2	0	Negligible
12a	9.4	9.5	0	Negligible	9.4	9.5	1	Negligible
13b	10.2	10.6	2	Negligible	10.3	10.7	2	Negligible
15a	9.8	9.9	0	Negligible	9.7	9.7	0	Negligible
16a	9.2	9.2	0	Negligible	9.0	9.0	0	Negligible
19a	10.7	11.0	1	Negligible	10.6	10.9	1	Negligible
19b	9.9	10.1	1	Negligible	9.6	9.7	0	Negligible
19c	9.9	10.1	1	Negligible	9.7	9.9	1	Negligible
20b	8.9	8.9	0	Negligible	8.9	8.9	0	Negligible

**Table H – Predicted PM<sub>2.5</sub> Concentrations in 2028 – 50% Development Traffic**

Receptor	Original Results				Revised Results			
	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor
22a	9.1	9.1	0	Negligible	9.0	9.1	0	Negligible
22b	9.0	9.0	0	Negligible	9.0	9.1	0	Negligible
24a	10.2	10.5	1	Negligible	10.0	10.2	1	Negligible
24b	11.4	11.6	1	Negligible	11.4	11.6	1	Negligible
31a	8.7	8.7	0	Negligible	8.6	8.6	0	Negligible
32c	11.6	11.6	0	Negligible	11.1	11.1	0	Negligible
33b	9.5	9.6	0	Negligible	9.4	9.5	0	Negligible
35b	7.6	7.6	0	Negligible	7.5	7.5	0	Negligible
41a	14.2	14.3	0	Negligible	11.5	11.6	0	Negligible
42b	11.2	11.2	0	Negligible	10.8	10.8	0	Negligible
42c	12.4	12.5	0	Negligible	11.6	11.6	0	Negligible
43a	12.7	12.9	1	Negligible	11.6	11.7	0	Negligible
43b	12.2	12.3	1	Negligible	11.6	11.7	0	Negligible
44a	12.3	12.4	0	Negligible	11.9	12.0	0	Negligible
45a	10.8	10.8	0	Negligible	10.8	10.8	0	Negligible

**Table I – Predicted PM<sub>2.5</sub> Concentrations in 2036 – 100% Development Traffic**

Receptor	Original Results				Revised Results			
	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor
PS_PE	22.8	23.0	0	negligible	11.1	11.2	0	Negligible
PS_HA2+08b	13.6	13.7	0	Negligible	10.2	10.4	1	Negligible
PS_HA5	10.0	10.2	1	Negligible	10.3	10.5	1	Negligible
PS_HA6	#N/A	#N/A	#N/A	#N/A	10.3	10.5	1	Negligible
PS_SA2+38a	#N/A	#N/A	#N/A	#N/A	10.7	10.7	0	Negligible
PS_SA5	10.4	10.5	0	Negligible	10.5	10.5	0	Negligible
PS_SA6+38b	10.4	10.5	0	Negligible	10.5	10.5	0	Negligible
PS_ES4	10.4	10.4	0	Negligible	10.9	11.0	0	Negligible
PS_ES6	13.5	13.6	0	Negligible	11.1	11.1	0	Negligible
PS_02a	13.6	13.7	0	Negligible	9.4	9.5	0	Negligible
PS_04a	9.4	9.5	0	Negligible	11.0	11.1	0	Negligible
PS_05a	10.9	11.0	0	Negligible	10.4	11.2	3	Negligible
PS_06a	10.6	11.5	4	Negligible	10.8	11.3	2	Negligible
PS_09a	10.6	10.9	1	Negligible	10.4	10.7	1	Negligible
PS_10a	10.5	10.7	1	Negligible	9.8	9.9	1	Negligible

**Table I – Predicted PM<sub>2.5</sub> Concentrations in 2036 – 100% Development Traffic**

Receptor	Original Results				Revised Results			
	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor
PS_13a	10.2	10.3	1	Negligible	10.7	11.0	1	Negligible
PS_14a	10.1	10.4	1	Negligible	10.1	10.6	2	Negligible
PS_14b	10.5	11.4	4	Negligible	9.0	9.4	2	Negligible
PS_15b	9.1	9.5	2	Negligible	9.3	9.3	0	Negligible
PS_15c	9.3	9.4	0	Negligible	11.3	11.4	0	Negligible
PS_17a	11.6	11.7	0	Negligible	10.0	10.2	1	Negligible
PS_17b	9.9	10.1	1	Negligible	9.7	9.8	0	Negligible
PS_18a	9.7	9.7	0	Negligible	8.2	8.3	0	Negligible
PS_20a	8.4	8.4	0	Negligible	9.3	9.4	0	Negligible
PS_21a	9.3	9.3	0	Negligible	9.1	9.1	0	Negligible
PS_21b	9.1	9.1	0	Negligible	8.9	8.9	0	Negligible
PS_23a	9.0	9.1	0	Negligible	9.0	9.0	0	Negligible
PS_23b	9.0	9.0	0	Negligible	8.4	8.4	0	Negligible
PS_29a	8.5	8.5	0	Negligible	8.3	8.3	0	Negligible
PS_29b	8.4	8.4	0	Negligible	7.7	7.7	0	Negligible

**Table I – Predicted PM<sub>2.5</sub> Concentrations in 2036 – 100% Development Traffic**

Receptor	Original Results				Revised Results			
	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor
PS_30a	7.8	7.8	0	Negligible	8.4	8.4	0	Negligible
PS_30b	8.6	8.6	0	Negligible	8.4	8.4	0	Negligible
PS_31b	8.5	8.6	0	Negligible	8.5	8.5	0	Negligible
PS_32a	8.5	8.5	0	Negligible	9.5	9.5	0	Negligible
PS_32b	9.5	9.6	0	Negligible	9.4	9.5	0	Negligible
PS_33a	9.3	9.4	0	Negligible	9.6	9.7	0	Negligible
PS_34a	9.6	9.7	0	Negligible	9.4	9.6	1	Negligible
PS_34b	9.4	9.6	1	Negligible	9.1	9.3	1	Negligible
PS_40b	9.1	9.2	0	Negligible	11.1	11.1	0	Negligible
PS_40c	13.2	13.3	0	Negligible	11.3	11.4	0	Negligible
PS_42a	11.4	11.4	0	Negligible	10.9	10.9	0	Negligible
PS_42d	12.6	12.7	0	Negligible	10.6	10.6	0	Negligible
PS_61a	10.6	10.7	0	Negligible	9.7	9.7	0	Negligible
PS_62a	9.7	9.7	0	Negligible	11.4	11.4	0	Negligible
PS_64b	11.5	11.6	0	Negligible	10.9	10.9	0	Negligible



**Table I – Predicted PM<sub>2.5</sub> Concentrations in 2036 – 100% Development Traffic**

Receptor	Original Results				Revised Results			
	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor
02b	11.2	11.2	0	Negligible	9.6	9.7	1	Negligible
03a	9.7	9.9	1	Negligible	10.6	10.6	0	Negligible
03b	13.2	13.3	0	Negligible	9.8	9.8	0	Negligible
08a	10.9	11.0	0	Negligible	10.5	10.7	1	Negligible
08c	10.6	10.8	1	Negligible	10.7	10.9	1	Negligible
09b	10.5	10.7	1	Negligible	10.3	10.5	1	Negligible
10b	10.4	10.5	1	Negligible	9.0	9.2	1	Negligible
12a	9.6	9.8	1	Negligible	9.4	9.6	1	Negligible
13b	9.3	9.5	1	Negligible	10.2	10.8	2	Negligible
15a	10.2	10.7	2	Negligible	9.6	9.7	0	Negligible
16a	9.8	9.9	0	Negligible	9.0	9.0	0	Negligible
19a	9.2	9.2	0	Negligible	10.6	11.0	1	Negligible
19b	10.7	11.1	2	Negligible	9.6	9.7	1	Negligible
19c	9.9	10.1	1	Negligible	9.7	9.9	1	Negligible
20b	9.9	10.1	1	Negligible	8.9	8.9	0	Negligible

**Table I – Predicted PM<sub>2.5</sub> Concentrations in 2036 – 100% Development Traffic**

Receptor	Original Results				Revised Results			
	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor
22a	8.9	8.9	0	Negligible	9.0	9.1	0	Negligible
22b	9.0	9.1	0	Negligible	9.0	9.0	0	Negligible
24a	9.0	9.0	0	Negligible	10.0	10.2	1	Negligible
24b	10.2	10.5	1	Negligible	11.4	11.7	1	Negligible
31a	11.4	11.6	1	Negligible	8.6	8.6	0	Negligible
32c	8.6	8.6	0	Negligible	11.0	11.1	0	Negligible
33b	11.5	11.6	0	Negligible	9.4	9.5	0	Negligible
35b	9.5	9.6	1	Negligible	7.5	7.5	0	Negligible
41a	7.5	7.5	0	Negligible	11.5	11.6	0	Negligible
42b	14.2	14.3	1	Negligible	10.8	10.8	0	Negligible
42c	11.1	11.2	0	Negligible	11.5	11.6	0	Negligible
43a	12.4	12.5	0	Negligible	11.6	11.7	1	Negligible
43b	12.7	12.9	1	Negligible	11.6	11.7	1	Negligible
44a	12.2	12.4	1	Negligible	11.9	12.0	0	Negligible
45a	12.3	12.3	0	Negligible	10.7	10.8	0	Negligible

**Table J – Predicted Number of days PM<sub>10</sub> Concentrations >50µg/m<sup>3</sup> in 2021 – 25% Development Traffic**

Receptor	Original Results				Revised Results			
	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor
PS_PE	8	9	0	negligible	1	1	0	Negligible
PS_HA2+08b	0	0	0	negligible	0	1	0	Negligible
PS_HA5	#N/A	#N/A	#N/A	#N/A	1	1	0	Negligible
PS_HA6	#N/A	#N/A	#N/A	#N/A	1	1	0	Negligible
PS_SA2+38a	1	1	0	negligible	1	1	0	Negligible
PS_SA5	1	1	0	negligible	1	1	0	Negligible
PS_SA6+38b	1	1	0	negligible	1	1	0	Negligible
PS_ES4	8	8	0	negligible	1	1	0	Negligible
PS_ES6	8	8	0	negligible	1	1	0	Negligible
PS_02a	0	0	0	negligible	0	0	0	Negligible
PS_04a	1	1	0	negligible	1	1	0	Negligible
PS_05a	1	1	0	negligible	1	1	0	Negligible
PS_06a	1	1	0	negligible	1	1	0	Negligible
PS_09a	1	1	0	negligible	1	1	0	Negligible
PS_10a	1	1	0	negligible	0	0	0	Negligible

**Table J – Predicted Number of days PM<sub>10</sub> Concentrations >50µg/m<sup>3</sup> in 2021 – 25% Development Traffic**

Receptor	Original Results				Revised Results			
	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor
PS_13a	0	0	0	negligible	1	1	0	Negligible
PS_14a	1	1	0	negligible	0	0	0	Negligible
PS_14b	0	0	0	negligible	0	0	0	Negligible
PS_15b	0	0	0	negligible	0	0	0	Negligible
PS_15c	2	2	0	negligible	2	2	0	Negligible
PS_17a	0	0	0	negligible	0	0	0	Negligible
PS_17b	0	0	0	negligible	0	0	0	Negligible
PS_18a	1	1	0	negligible	1	1	0	Negligible
PS_20a	0	0	0	negligible	0	0	0	Negligible
PS_21a	0	0	0	negligible	0	0	0	Negligible
PS_21b	0	0	0	negligible	0	0	0	Negligible
PS_23a	0	0	0	negligible	0	0	0	Negligible
PS_23b	1	1	0	negligible	1	1	0	Negligible
PS_29a	1	1	0	negligible	1	1	0	Negligible
PS_29b	1	1	0	negligible	1	1	0	Negligible

**Table J – Predicted Number of days PM<sub>10</sub> Concentrations >50µg/m<sup>3</sup> in 2021 – 25% Development Traffic**

Receptor	Original Results				Revised Results			
	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor
PS_30a	1	1	0	negligible	1	1	0	Negligible
PS_30b	1	1	0	negligible	1	1	0	Negligible
PS_31b	1	1	0	negligible	1	1	0	Negligible
PS_32a	0	0	0	negligible	0	0	0	Negligible
PS_32b	0	0	0	negligible	0	0	0	Negligible
PS_33a	0	0	0	negligible	0	0	0	Negligible
PS_34a	0	0	0	negligible	0	0	0	Negligible
PS_34b	0	0	0	negligible	0	0	0	Negligible
PS_40b	7	7	0	negligible	1	1	0	Negligible
PS_40c	2	2	0	negligible	2	2	0	Negligible
PS_42a	5	5	0	negligible	2	2	0	Negligible
PS_42d	1	1	0	negligible	1	1	0	Negligible
PS_61a	0	0	0	negligible	0	0	0	Negligible
PS_62a	2	2	0	negligible	2	2	0	Negligible
PS_64b	1	2	0	negligible	1	1	0	Negligible

**Table J – Predicted Number of days PM<sub>10</sub> Concentrations >50µg/m<sup>3</sup> in 2021 – 25% Development Traffic**

Receptor	Original Results				Revised Results			
	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor
02b	0	0	0	negligible	0	0	0	Negligible
03a	7	7	0	negligible	3	3	0	Negligible
03b	1	1	0	negligible	1	1	0	Negligible
08a	1	1	0	negligible	1	1	0	Negligible
08c	1	1	0	negligible	1	1	0	Negligible
09b	1	1	0	negligible	0	1	0	Negligible
10b	0	0	0	negligible	0	0	0	Negligible
12a	0	0	0	negligible	0	0	0	Negligible
13b	0	0	0	negligible	0	0	0	Negligible
15a	0	0	0	negligible	0	0	0	Negligible
16a	0	0	0	negligible	0	0	0	Negligible
19a	1	1	0	negligible	1	1	0	Negligible
19b	0	0	0	negligible	0	0	0	Negligible
19c	0	0	0	negligible	0	0	0	Negligible
20b	0	0	0	negligible	0	0	0	Negligible

**Table J – Predicted Number of days PM<sub>10</sub> Concentrations >50µg/m<sup>3</sup> in 2021 – 25% Development Traffic**

Receptor	Original Results				Revised Results			
	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor	2021 Baseline	2021 With Development	Development Contribution (%)	Impact Descriptor
22a	0	0	0	negligible	0	0	0	Negligible
22b	0	0	0	negligible	0	0	0	Negligible
24a	0	1	0	negligible	0	0	0	Negligible
24b	2	2	0	negligible	2	2	0	Negligible
31a	0	0	0	negligible	0	0	0	Negligible
32c	2	2	0	negligible	1	1	0	Negligible
33b	0	0	0	negligible	0	0	0	Negligible
35b	2	2	0	negligible	2	2	0	Negligible
41a	10	11	0	negligible	4	4	0	Negligible
42b	2	2	0	negligible	1	1	0	Negligible
42c	5	5	0	negligible	2	2	0	Negligible
43a	5	5	0	negligible	2	2	0	Negligible
43b	4	4	0	negligible	2	2	0	Negligible
44a	7	7	0	negligible	5	5	0	Negligible
45a	1	1	0	negligible	1	1	0	Negligible

**Table K – Predicted Number of days PM<sub>10</sub> Concentrations > 50µg/m<sup>3</sup> in 2028 – 50% Development Traffic**

Receptor	Original Results				Revised Results			
	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor
PS_PE	7	8	0	negligible	1	1	1	Negligible
PS_HA2+08b	0	0	0	negligible	0	0	0	Negligible
PS_HA5	#N/A	#N/A	#N/A	#N/A	0	0	0	Negligible
PS_HA6	#N/A	#N/A	#N/A	#N/A	0	1	0	Negligible
PS_SA2+38a	1	1	0	negligible	0	1	0	Negligible
PS_SA5	1	1	0	negligible	0	1	0	Negligible
PS_SA6+38b	1	1	0	negligible	0	1	0	Negligible
PS_ES4	7	7	0	negligible	1	1	0	Negligible
PS_ES6	7	8	0	negligible	1	1	0	Negligible
PS_02a	0	0	0	negligible	0	0	0	Negligible
PS_04a	1	1	0	negligible	1	1	1	Negligible
PS_05a	1	1	1	negligible	0	1	1	Negligible
PS_06a	1	1	0	negligible	0	1	1	Negligible
PS_09a	1	1	0	negligible	0	1	0	Negligible
PS_10a	0	1	0	negligible	0	0	0	Negligible



**Table K – Predicted Number of days PM<sub>10</sub> Concentrations > 50µg/m<sup>3</sup> in 2028 – 50% Development Traffic**

Receptor	Original Results				Revised Results			
	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor
PS_13a	0	0	0	negligible	0	1	0	Negligible
PS_14a	1	1	1	negligible	0	1	0	Negligible
PS_14b	0	0	0	negligible	0	0	0	Negligible
PS_15b	0	0	0	negligible	0	0	0	Negligible
PS_15c	2	2	0	negligible	1	1	1	Negligible
PS_17a	0	0	0	negligible	0	0	0	Negligible
PS_17b	0	0	0	negligible	0	0	0	Negligible
PS_18a	1	1	0	negligible	1	1	0	Negligible
PS_20a	0	0	0	negligible	0	0	0	Negligible
PS_21a	0	0	0	negligible	0	0	0	Negligible
PS_21b	0	0	0	negligible	0	0	0	Negligible
PS_23a	0	0	0	negligible	0	0	0	Negligible
PS_23b	1	1	0	negligible	1	1	0	Negligible
PS_29a	1	1	0	negligible	1	1	0	Negligible
PS_29b	1	1	0	negligible	1	1	0	Negligible

**Table K – Predicted Number of days PM<sub>10</sub> Concentrations > 50µg/m<sup>3</sup> in 2028 – 50% Development Traffic**

Receptor	Original Results				Revised Results			
	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor
PS_30a	1	1	0	negligible	1	1	0	Negligible
PS_30b	1	1	0	negligible	1	1	0	Negligible
PS_31b	1	1	0	negligible	1	1	0	Negligible
PS_32a	0	0	0	negligible	0	0	0	Negligible
PS_32b	0	0	0	negligible	0	0	0	Negligible
PS_33a	0	0	0	negligible	0	0	0	Negligible
PS_34a	0	0	0	negligible	0	0	0	Negligible
PS_34b	0	0	0	negligible	0	0	0	Negligible
PS_40b	6	6	0	negligible	1	1	0	Negligible
PS_40c	2	2	0	negligible	1	2	1	Negligible
PS_42a	4	5	0	negligible	1	1	1	Negligible
PS_42d	1	1	0	negligible	0	1	0	Negligible
PS_61a	0	0	0	negligible	0	0	0	Negligible
PS_62a	2	2	0	negligible	1	2	0	Negligible
PS_64b	1	1	0	negligible	1	1	0	Negligible

**Table K – Predicted Number of days PM<sub>10</sub> Concentrations > 50µg/m<sup>3</sup> in 2028 – 50% Development Traffic**

Receptor	Original Results				Revised Results			
	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor
02b	0	0	0	negligible	0	0	0	Negligible
03a	6	6	0	negligible	1	2	1	Negligible
03b	1	1	0	negligible	0	1	0	Negligible
08a	1	1	0	negligible	0	1	0	Negligible
08c	1	1	0	negligible	0	1	1	Negligible
09b	0	1	0	negligible	0	0	0	Negligible
10b	0	0	0	negligible	0	0	0	Negligible
12a	0	0	0	negligible	0	0	0	Negligible
13b	0	0	0	negligible	0	0	0	Negligible
15a	0	0	0	negligible	0	0	0	Negligible
16a	0	0	0	negligible	0	0	0	Negligible
19a	1	1	0	negligible	0	1	1	Negligible
19b	0	0	0	negligible	0	0	0	Negligible
19c	0	0	0	negligible	0	0	0	Negligible
20b	0	0	0	negligible	0	0	0	Negligible

**Table K – Predicted Number of days PM<sub>10</sub> Concentrations > 50µg/m<sup>3</sup> in 2028 – 50% Development Traffic**

Receptor	Original Results				Revised Results			
	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor	2028 Baseline	2028 With Development	Development Contribution (%)	Impact Descriptor
22a	0	0	0	negligible	0	0	0	Negligible
22b	0	0	0	negligible	0	0	0	Negligible
24a	0	0	0	negligible	0	0	0	Negligible
24b	2	2	0	negligible	1	2	1	Negligible
31a	1	1	0	negligible	1	1	0	Negligible
32c	2	2	0	negligible	1	1	1	Negligible
33b	0	0	0	negligible	0	0	0	Negligible
35b	2	2	0	negligible	2	2	0	Negligible
41a	10	10	0	negligible	3	4	1	Negligible
42b	1	1	0	negligible	0	1	0	Negligible
42c	4	4	0	negligible	1	2	1	Negligible
43a	4	5	0	negligible	1	2	1	Negligible
43b	3	4	0	negligible	1	2	1	Negligible
44a	7	7	0	negligible	4	5	1	Negligible
45a	1	1	0	negligible	1	1	0	Negligible

**Table L – Predicted Number of days PM<sub>10</sub> Concentrations > 50 µg/m<sup>3</sup> in 2036 – 100% Development Traffic**

Receptor	Original Results				Revised Results			
	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor
PS_PE	7	8	0	negligible	1	1	0	Negligible
PS_HA2+08b	0	0	0	negligible	0	0	0	Negligible
PS_HA5	#N/A	#N/A	#N/A	#N/A	0	1	0	Negligible
PS_HA6	#N/A	#N/A	#N/A	#N/A	0	1	0	Negligible
PS_SA2+38a	1	1	0	negligible	1	1	0	Negligible
PS_SA5	1	1	0	negligible	1	1	0	Negligible
PS_SA6+38b	1	1	0	negligible	1	1	0	Negligible
PS_ES4	7	7	0	negligible	1	1	0	Negligible
PS_ES6	7	8	0	negligible	1	1	0	Negligible
PS_02a	0	0	0	negligible	0	0	0	Negligible
PS_04a	1	1	0	negligible	1	1	0	Negligible
PS_05a	1	2	1	negligible	0	1	1	Negligible
PS_06a	1	1	0	negligible	1	1	1	Negligible
PS_09a	1	1	0	negligible	0	1	0	Negligible
PS_10a	0	1	0	negligible	0	0	0	Negligible

**Table L – Predicted Number of days PM<sub>10</sub> Concentrations > 50µg/m<sup>3</sup> in 2036 – 100% Development Traffic**

Receptor	Original Results				Revised Results			
	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor
PS_13a	0	0	0	negligible	0	1	0	Negligible
PS_14a	1	2	1	negligible	0	1	0	Negligible
PS_14b	0	0	0	negligible	0	0	0	Negligible
PS_15b	0	0	0	negligible	0	0	0	Negligible
PS_15c	2	2	0	negligible	1	1	0	Negligible
PS_17a	0	0	0	negligible	0	0	0	Negligible
PS_17b	0	0	0	negligible	0	0	0	Negligible
PS_18a	1	1	0	negligible	1	1	0	Negligible
PS_20a	0	0	0	negligible	0	0	0	Negligible
PS_21a	0	0	0	negligible	0	0	0	Negligible
PS_21b	0	0	0	negligible	0	0	0	Negligible
PS_23a	0	0	0	negligible	0	0	0	Negligible
PS_23b	1	1	0	negligible	1	1	0	Negligible
PS_29a	1	1	0	negligible	1	1	0	Negligible
PS_29b	1	1	0	negligible	1	1	0	Negligible

**Table L – Predicted Number of days PM<sub>10</sub> Concentrations > 50 µg/m<sup>3</sup> in 2036 – 100% Development Traffic**

Receptor	Original Results				Revised Results			
	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor
PS_30a	1	1	0	negligible	1	1	0	Negligible
PS_30b	1	1	0	negligible	1	1	0	Negligible
PS_31b	1	1	0	negligible	1	1	0	Negligible
PS_32a	0	0	0	negligible	0	0	0	Negligible
PS_32b	0	0	0	negligible	0	0	0	Negligible
PS_33a	0	0	0	negligible	0	0	0	Negligible
PS_34a	0	0	0	negligible	0	0	0	Negligible
PS_34b	0	0	0	negligible	0	0	0	Negligible
PS_40b	6	6	0	negligible	1	1	0	Negligible
PS_40c	2	2	0	negligible	2	2	0	Negligible
PS_42a	4	5	0	negligible	1	1	0	Negligible
PS_42d	1	1	0	negligible	1	1	0	Negligible
PS_61a	0	0	0	negligible	0	0	0	Negligible
PS_62a	2	2	0	negligible	2	2	0	Negligible
PS_64b	1	1	0	negligible	1	1	0	Negligible

**Table L – Predicted Number of days PM<sub>10</sub> Concentrations > 50µg/m<sup>3</sup> in 2036 – 100% Development Traffic**

Receptor	Original Results				Revised Results			
	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor
02b	0	0	0	negligible	0	0	0	Negligible
03a	6	6	0	negligible	2	2	0	Negligible
03b	1	1	0	negligible	1	1	0	Negligible
08a	1	1	0	negligible	1	1	0	Negligible
08c	1	1	0	negligible	1	1	0	Negligible
09b	0	1	0	negligible	0	0	0	Negligible
10b	0	0	0	negligible	0	0	0	Negligible
12a	0	0	0	negligible	0	0	0	Negligible
13b	0	0	0	negligible	0	1	0	Negligible
15a	0	0	0	negligible	0	0	0	Negligible
16a	0	0	0	negligible	0	0	0	Negligible
19a	1	1	0	negligible	0	1	0	Negligible
19b	0	0	0	negligible	0	0	0	Negligible
19c	0	0	0	negligible	0	0	0	Negligible
20b	0	0	0	negligible	0	0	0	Negligible



**Table L – Predicted Number of days PM<sub>10</sub> Concentrations > 50 µg/m<sup>3</sup> in 2036 – 100% Development Traffic**

Receptor	Original Results				Revised Results			
	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor	2036 Baseline	2036 With Development	Development Contribution (%)	Impact Descriptor
22a	0	0	0	negligible	0	0	0	Negligible
22b	0	0	0	negligible	0	0	0	Negligible
24a	0	1	0	negligible	0	0	0	Negligible
24b	2	2	0	negligible	2	2	0	Negligible
31a	1	1	0	negligible	1	1	0	Negligible
32c	2	2	0	negligible	1	1	0	Negligible
33b	0	0	0	negligible	0	0	0	Negligible
35b	2	2	0	negligible	2	2	0	Negligible
41a	9	10	1	negligible	4	4	0	Negligible
42b	1	1	0	negligible	1	1	0	Negligible
42c	4	4	0	negligible	2	2	0	Negligible
43a	4	5	1	negligible	2	2	0	Negligible
43b	3	4	0	negligible	2	2	0	Negligible
44a	7	7	0	negligible	5	5	0	Negligible
45a	1	1	0	negligible	1	1	0	Negligible