TECHNICAL APPENDIX 8.3: STAG ASSESSMENT WORKSHEETS

PM10, SUMMARY OF ROUTES: THE AGGREGATED TABLE	0-50m (i)	50-100m (ii)	100-150m (iii)	150-200m (iv)	0-200m (v=i+ii+iii+iv)
Total properties across all routes (min)	123	239	223	280	865
Total properties across all routes (some)	123	240	223	280	866
Do-minimum PM10 assessment across all routes	2053.68	3866.77	3555.06	4439.60	Total assessment PM10 (I): 13915.10
Do-something PM10 assessment across all routes	2053.91	3882.03	3555.26	4439.16	Total assessment PM10 (II): 13930.36
Net total assessment for PM10, all routes (II-I)					15.26
Number of properties with an improvement					*615*
Number of properties with no change					*0*
Number of properties with a deterioration					*251*

Reference Sources:

Quantitative Measures:

Assessment Scores:

Qualitative Comments:

NO_2, SUMMARY OF ROUTES: THE AGGREGATED TABLE	0-50m (i)	50-100m (ii)	100-150m (iii)	150-200m (iv)	0-200m (v=i+ii+iii+iv)
Total properties across all routes (min)	123	239	223	280	865
Total properties across all routes (some)	123	240	223	280	866
Do-minimum NO_2 assessment *across all routes*	2783.10	5080.84	4636.23	5771.88	Total assessment NO_2 **(I)**: 18272.05
Do-something NO_2 assessment *across all routes*	2788.71	5093.77	4634.82	5771.13	Total assessment NO_2 **(II)**: 18288.43
Net total assessment for NO_2, all routes (II-I)					16.38
Number of properties with an improvement					*618*
Number of properties with no change					*0*
Number of properties with a deterioration					*248*

Reference Sources:

Quantitative Measures:

Assessment Scores:

Qualitative Comments:

Pollutant Concentration Entry

Please click the Button to Compile the Local Air Quality Results

Compile Local Air Quality Results

Road	NO_2 Concentrations								PM_{10} Concentrations							
	Do-Minimum				Do-Something				Do-Minimum				Do-Something			
	0-50m	50-100m	100-150m	150-200m	0-50m	50-100m	100-150m	150-200m	0-50m	50-100m	100-150m	150-200m	0-50m	50-100m	100-150m	150-200m
15	23.0	21.3	20.8	20.6	22.6	21.1	20.7	20.6	17.1	16.2	15.9	15.8	16.6	16.0	15.9	15.8
23	23.0	21.3	20.8	20.6	23.1	21.3	20.8	20.6	17.0	16.2	15.9	15.8	17.1	16.2	15.9	15.9
87	22.3	21.0	20.7	20.6	22.3	21.1	20.7	20.6	16.5	16.0	15.9	15.8	16.5	16.0	15.9	15.8
88	23.0	21.2	20.8	20.6	23.0	21.3	20.8	20.6	17.0	16.1	15.9	15.8	17.0	16.2	15.9	15.8
163	24.5	21.8	20.9	20.7	24.4	21.7	20.9	20.7	17.9	16.4	16.0	15.9	17.9	16.4	16.0	15.9
164	24.9	21.9	21.0	20.7	24.7	21.8	20.9	20.7	18.0	16.5	16.0	15.9	18.0	16.4	16.0	15.9
165	25.4	22.0	21.0	20.7	25.3	22.0	21.0	20.7	18.6	16.6	16.1	15.9	18.6	16.6	16.1	15.9
166	21.3	20.7	20.6	20.5	21.4	20.8	20.6	20.5	16.1	15.9	15.8	15.8	16.1	15.9	15.8	15.8
167	23.6	21.5	20.8	20.6	23.8	21.5	20.8	20.6	17.4	16.3	16.0	15.9	17.4	16.3	16.0	15.9
170	23.0	21.2	20.7	20.6	23.1	21.3	20.8	20.6	16.7	16.1	15.9	15.8	16.8	16.1	15.9	15.8
175	20.8	20.6	20.5	20.5	20.9	20.6	20.5	20.5	15.9	15.8	15.8	15.8	15.9	15.8	15.8	15.8
176	24.8	21.8	21.0	20.7	24.7	21.8	20.9	20.7	17.9	16.4	16.0	15.9	17.9	16.4	16.0	15.9
180	23.4	21.4	20.8	20.6	23.5	21.4	20.8	20.6	17.1	16.2	15.9	15.8	17.1	16.2	15.9	15.9
181	21.7	20.8	20.6	20.5	21.8	20.9	20.6	20.6	16.1	15.9	15.8	15.8	16.1	15.9	15.8	15.8
182	22.2	21.0	20.7	20.6	21.9	20.9	20.6	20.6	16.3	15.9	15.8	15.8	16.3	15.9	15.8	15.8
184	22.2	21.0	20.7	20.6	21.9	20.9	20.6	20.6	16.3	15.9	15.8	15.8	16.3	15.9	15.8	15.8
187	22.0	21.0	20.7	20.6	22.1	21.0	20.7	20.6	16.4	16.0	15.9	15.8	16.4	16.0	15.9	15.8
188	22.5	21.1	20.7	20.6	22.6	21.2	20.7	20.6	16.6	16.0	15.9	15.8	16.6	16.1	15.8	15.8
196	21.1	20.7	20.6	20.5	21.1	20.7	20.6	20.5	16.2	15.9	15.8	15.8	16.2	15.9	16.0	15.9
199	24.4	21.7	20.9	20.7	24.3	21.7	20.9	20.7	17.8	16.4	16.0	15.9	17.8	16.4	16.0	15.9
201	24.8	21.8	21.0	20.7	24.7	21.8	20.9	20.7	17.9	16.4	16.0	15.9	17.9	16.4	16.0	15.9
204	24.0	21.6	20.9	20.6	23.8	21.5	20.9	20.6	18.0	16.4	16.0	15.9	18.0	16.4	16.0	15.9
205	22.4	21.1	20.7	20.6	22.5	21.1	20.7	20.6	16.6	16.0	15.9	15.8	16.6	16.0	15.9	15.8
206	22.5	21.1	20.7	20.6	22.6	21.1	20.7	20.6	16.6	16.0	15.9	15.8	16.6	16.0	15.9	15.8
208	22.6	21.1	20.7	20.6	22.7	21.2	20.7	20.6	16.6	16.0	15.9	15.8	16.7	16.1	15.9	15.8
211	24.1	21.6	20.9	20.6	24.0	21.6	20.9	20.6	17.6	16.3	16.0	15.9	17.6	16.3	16.0	15.9
212	24.0	21.6	20.9	20.6	23.8	21.5	20.9	20.6	18.0	16.4	16.0	15.9	18.0	16.4	16.0	15.9
214	24.0	21.6	20.9	20.6	23.8	21.5	20.9	20.6	18.0	16.4	16.0	15.9	18.0	16.4	16.0	15.9
219	24.9	21.9	21.0	20.7	24.7	21.8	20.9	20.7	18.0	16.5	16.0	15.9	18.0	16.4	16.0	15.9
220	24.5	21.8	20.9	20.7	24.4	21.7	20.9	20.7	17.9	16.4	16.0	15.9	17.9	16.4	16.0	15.9
222	22.9	21.2	20.7	20.6	23.1	21.3	20.8	20.6	16.7	16.1	15.9	15.8	16.7	16.1	15.9	15.8
224	21.7	20.8	20.6	20.5	21.6	20.8	20.6	20.5	16.1	15.9	15.8	15.8	16.1	15.9	15.8	15.8
225	21.0	20.6	20.5	20.5	21.2	20.7	20.6	20.5	15.9	15.8	15.8	15.8	16.0	15.9	15.8	15.8
229	24.4	21.7	20.9	20.7	24.4	21.7	20.9	20.7	18.3	16.5	16.0	15.9	18.3	16.5	16.0	15.9
232	24.4	21.7	20.9	20.7	24.4	21.7	20.9	20.7	18.3	16.5	16.0	15.9	18.3	16.5	16.0	15.9
233	21.8	20.9	20.6	20.6	21.9	20.9	20.6	20.6	16.4	16.0	15.9	15.8	16.4	16.0	15.9	15.8
237	24.5	21.7	20.9	20.7	24.5	21.7	20.9	20.7	18.4	16.5	16.0	15.9	18.4	16.6	16.1	15.9
240	23.6	21.5	20.8	20.6	23.6	21.5	20.8	20.6	17.7	16.4	16.0	15.9	17.7	16.4	16.0	15.9
242	22.9	21.2	20.7	20.6	22.8	21.2	20.7	20.6	17.1	16.2	15.9	15.9	17.0	16.2	15.9	15.8
244	24.5	21.7	20.9	20.7	24.5	21.7	20.9	20.7	18.4	16.5	16.0	15.9	18.4	16.6	16.1	15.9
249	20.9	20.6	20.5	20.5	20.9	20.6	20.5	20.5	16.1	15.9	15.8	15.8	16.1	15.9	15.8	15.8
250	22.0	20.9	20.6	20.6	22.1	21.0	20.7	20.6	16.4	16.0	15.9	15.8	16.4	16.0	15.9	15.8
251	24.0	21.6	20.9	20.6	23.8	21.5	20.9	20.6	18.0	16.4	16.0	15.9	18.0	16.4	16.0	15.9
253	23.6	21.5	20.8	20.6	23.6	21.5	20.8	20.6	17.7	16.4	16.0	15.9	17.7	16.4	16.0	15.9
254	20.9	20.6	20.5	20.5	20.9	20.6	20.5	20.5	16.1	15.9	15.8	15.8	16.1	15.9	15.8	15.8
260	22.8	21.2	20.7	20.6	22.9	21.2	20.7	20.6	16.7	16.1	15.9	15.8	16.7	16.1	15.9	15.8
267	21.6	20.8	20.6	20.5	21.6	20.8	20.6	20.5	16.2	15.9	15.8	15.8	16.2	15.9	15.8	15.8
268	21.7	20.9	20.6	20.5	21.6	20.8	20.6	20.5	16.2	15.9	15.8	15.8	16.2	15.9	15.8	15.8
269	21.7	20.9	20.6	20.5	21.6	20.8	20.6	20.5	16.2	15.9	15.8	15.8	16.2	15.9	15.8	15.8
270	21.7	20.9	20.6	20.5	21.6	20.8	20.6	20.5	16.2	15.9	15.8	15.8	16.2	15.9	15.8	15.8
271	21.1	20.7	20.6	20.5	21.1	20.7	20.6	20.5	16.1	15.9	15.8	15.8	16.1	15.9	15.8	15.8
272	21.0	20.6	20.5	20.5	21.0	20.6	20.6	20.5	16.0	15.9	15.8	15.8	16.0	15.9	15.8	15.8
273	21.0	20.6	20.5	20.5	21.0	20.6	20.6	20.5	16.0	15.9	15.8	15.8	16.0	15.9	15.8	15.8
277	23.7	21.5	20.8	20.6	23.7	21.5	20.8	20.6	17.1	16.2	15.9	15.8	17.1	16.2	15.9	15.9
Slip_OffEB_1A	20.5	20.5	20.5	20.5	15.8	15.8	15.8	15.8	20.6	20.5	20.5	20.5	15.8	15.8	15.8	15.8
Slip_OnWB_1A	20.5	20.5	20.5	20.5	15.8	15.8	15.8	15.8	20.6	20.5	20.5	20.5	15.8	15.8	15.8	15.8
Slip_OffWB_1A	20.5	20.5	20.5	20.5	15.8	15.8	15.8	15.8	20.9	20.6	20.5	20.5	16.0	15.8	15.8	15.8
Slip_OnEB_1A	20.5	20.5	20.5	20.5	15.8	15.8	15.8	15.8	20.9	20.6	20.5	20.5	16.0	15.9	15.8	15.8
B8020_Xing_1A	21.3	20.7	20.6	20.5	16.0	15.9	15.8	15.8	21.6	20.8	20.6	20.5	16.2	15.9	15.8	15.8
B8020_N_RA	21.6	20.8	20.6	20.5	16.2	15.9	15.8	15.8	21.5	20.8	20.6	20.5	16.1	15.9	15.8	15.8
B8020_S_RA	21.6	20.8	20.6	20.5	16.2	15.9	15.8	15.8	22.3	21.0	20.7	20.6	16.6	16.0	15.9	15.8

Property Count Entry

Please click the Button to Compile the Local Air Quality Results

Compile Local Air Quality Results

Road	*Property Input*							
	Do-Minimum				Do-Something			
	0-50m	50-100m	100-150m	150-200m	0-50m	50-100m	100-150m	150-200m
15	2	5	4	1	2	5	4	1
23	4	2	0	0	4	2	0	0
87	2	10	14	8	2	10	14	8
88	4	0	2	12	4	0	2	12
163	0	0	0	0	0	0	0	0
164	0	0	0	0	0	0	0	0
165	11	26	31	50	11	26	31	50
166	3	1	1	0	3	1	1	0
167	0	2	1	0	0	2	1	0
170	0	0	0	0	0	0	0	0
175	6	0	0	0	6	0	0	0
176	0	0	0	0	0	0	0	0
180	5	1	2	0	5	1	2	0
181	15	19	5	0	15	19	5	0
182	0	0	0	0	0	0	0	0
184	0	0	0	0	0	0	0	0
187	0	0	0	0	0	0	0	0
188	0	0	0	0	0	0	0	0
196	0	0	0	0	0	0	0	0
199	0	0	0	0	0	0	0	0
201	0	0	0	0	0	0	0	0
204	0	63	48	56	0	63	48	56
205	0	0	0	0	0	0	0	0
206	0	0	7	10	0	0	7	10
208	0	0	0	0	0	0	0	0
211	1	18	50	59	1	18	50	59
212	0	0	0	2	0	0	0	2
214	0	0	0	0	0	0	0	0
219	0	0	0	0	0	0	0	0
220	1	0	0	0	1	0	0	0
222	41	21	0	1	41	21	0	1
224	0	0	0	0	0	0	0	0
225	0	1	0	0	0	1	0	0
229	0	0	0	0	0	0	0	0
232	0	0	0	0	0	0	0	0
233	0	0	1	2	0	0	1	2
237	0	0	0	0	0	0	0	0
240	0	0	0	0	0	0	0	0
242	0	0	0	0	0	0	0	0
244	0	0	0	0	0	0	0	0
249	0	25	8	8	0	25	8	8
250	0	0	0	0	0	0	0	0
251	0	0	0	1	0	0	0	1
253	0	0	0	0	0	0	0	0
254	0	0	1	0	0	0	1	0
260	0	0	0	0	0	0	0	0
267	3	11	18	38	3	11	18	38
268	0	0	0	0	0	0	0	0
269	10	15	12	19	10	15	12	19
270	14	19	17	12	14	19	17	12
271	0	0	0	0	0	0	0	0
272	0	0	0	1	0	0	0	1
273	0	0	1	0	0	0	1	0
277	1	0	0	0	1	0	0	0
Slip_OffEB_1A	0	0	0	0	0	1	0	0
Slip_OnWB_1A	0	0	0	0	0	0	0	0
Slip_OffWB_1A	0	0	0	0	0	0	0	0
Slip_OnEB_1A	0	0	0	0	0	0	0	0
B8020_Xing_1A	0	0	0	0	0	0	0	0
B8020_N_RA	0	0	0	0	0	0	0	0
B8020_S_RA	0	0	0	0	0	0	0	0

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	1	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	18986	96	A			97.06				2.94
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	2	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	18927	96	A			97.13				2.87
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	2	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.3	34.0	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.05	15.85	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.33	0.05
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	2	2022	0.04	0.04	0.03	42.89	23.01	17.05	0.77
2	2	2022	0.01	0.01	0.01	36.38	21.26	16.16	0.37
3	2	2022	0.00	0.00	0.00	34.59	20.75	15.92	0.29
4	2	2022	0.00	0.00	0.00	34.03	20.60	15.85	0.27

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	3	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	13422	48	A			96.6				3.4
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	3	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.2	33.9	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.03	15.83	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.23	0.03
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	3	2022	0.04	0.05	0.04	40.07	22.27	16.52	0.51
2	3	2022	0.01	0.01	0.01	35.56	21.03	16.01	0.32
3	3	2022	0.00	0.00	0.00	34.31	20.68	15.87	0.28
4	3	2022	0.00	0.00	0.00	33.93	20.57	15.83	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	4	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	16864	96	A			96.76				3.24
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	4	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.3	34.0	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.04	15.84	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.33	0.04
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	4	2022	0.04	0.04	0.03	42.73	22.96	17.00	0.74
2	4	2022	0.01	0.01	0.01	36.33	21.25	16.15	0.36
3	4	2022	0.00	0.00	0.00	34.57	20.75	15.92	0.29
4	4	2022	0.00	0.00	0.00	34.03	20.59	15.84	0.27

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	5	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	21442	112	A			92.11				7.89
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	5	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.6	34.3	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.2	20.7	$\mu g/m^3$	Annual mean*	20.7	$\mu g/m^3$
PM_{10}	15.8	0.08	15.88	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.56	0.08
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	5	2022	0.04	0.05	0.06	49.01	24.54	17.92	1.34
2	5	2022	0.01	0.01	0.02	38.16	21.75	16.42	0.46
3	5	2022	0.00	0.00	0.01	35.18	20.92	16.00	0.32
4	5	2022	0.00	0.00	0.00	34.26	20.66	15.88	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	6	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	24049	112	A			90.97				9.03
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	6	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.6	34.3	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.2	20.7	$\mu g/m^3$	Annual mean*	20.7	$\mu g/m^3$
PM_{10}	15.8	0.08	15.88	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.61	0.08
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	6	2022	0.05	0.06	0.07	50.61	24.92	18.04	1.43
2	6	2022	0.01	0.02	0.02	38.63	21.88	16.45	0.48
3	6	2022	0.00	0.01	0.01	35.33	20.97	16.02	0.32
4	6	2022	0.00	0.00	0.00	34.31	20.68	15.88	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	7	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	42928	112	A			93.54				6.46
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	7	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.7	34.4	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.2	20.7	$\mu g/m^3$	Annual mean*	20.7	$\mu g/m^3$
PM_{10}	15.8	0.10	15.90	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.68	0.10
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	7	2022	0.06	0.10	0.11	52.47	25.36	18.56	1.87
2	7	2022	0.02	0.03	0.03	39.17	22.03	16.60	0.54
3	7	2022	0.01	0.01	0.01	35.51	21.02	16.07	0.34
4	7	2022	0.00	0.00	0.00	34.38	20.70	15.90	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	8	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	5936	64	B			94.12				5.88
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	8	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.1	33.8	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.0	20.5	$\mu g/m^3$	Annual mean*	20.5	$\mu g/m^3$
PM_{10}	15.8	0.01	15.81	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.11	0.01
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	8	2022	0.01	0.02	0.01	36.60	21.32	16.07	0.34
2	8	2022	0.00	0.00	0.00	34.55	20.74	15.88	0.28
3	8	2022	0.00	0.00	0.00	33.98	20.58	15.83	0.26
4	8	2022	0.00	0.00	0.00	33.81	20.53	15.81	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	9	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	19062	104	A			95.06				4.94
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	9	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.4	34.1	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.06	15.86	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.42	0.06
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	9	2022	0.04	0.04	0.04	45.25	23.61	17.39	0.97
2	9	2022	0.01	0.01	0.01	37.07	21.45	16.26	0.40
3	9	2022	0.00	0.00	0.00	34.81	20.82	15.95	0.30
4	9	2022	0.00	0.00	0.00	34.12	20.62	15.86	0.27

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	10	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	19062	48	A			95.06				4.94
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	10	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.3	34.0	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.03	15.83	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.33	0.03
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	10	2022	0.05	0.07	0.06	42.67	22.95	16.73	0.60
2	10	2022	0.02	0.02	0.02	36.32	21.24	16.07	0.34
3	10	2022	0.00	0.01	0.01	34.57	20.75	15.89	0.28
4	10	2022	0.00	0.00	0.00	34.03	20.59	15.83	0.27

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	12	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	20414	112	A			90.27				9.73
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	12	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.6	34.3	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.2	20.7	$\mu g/m^3$	Annual mean*	20.7	$\mu g/m^3$
PM_{10}	15.8	0.08	15.88	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.59	0.08
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	12	2022	0.04	0.05	0.07	50.06	24.79	17.91	1.33
2	12	2022	0.01	0.01	0.02	38.47	21.84	16.41	0.46
3	12	2022	0.00	0.00	0.01	35.28	20.95	16.00	0.32
4	12	2022	0.00	0.00	0.00	34.29	20.67	15.88	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	13	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	17801	96	A			94.76				5.24
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	13	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.4	34.1	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.05	15.85	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.38	0.05
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	13	2022	0.04	0.04	0.04	44.32	23.37	17.07	0.78
2	13	2022	0.01	0.01	0.01	36.79	21.38	16.17	0.37
3	13	2022	0.00	0.00	0.00	34.72	20.79	15.92	0.29
4	13	2022	0.00	0.00	0.00	34.08	20.61	15.85	0.27

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	14	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	6307	64	B			87.84				12.16
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	14	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.2	33.9	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.0	20.5	$\mu g/m^3$	Annual mean*	20.5	$\mu g/m^3$
PM_{10}	15.8	0.01	15.81	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.15	0.01
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	14	2022	0.02	0.02	0.02	37.87	21.67	16.12	0.35
2	14	2022	0.00	0.00	0.01	34.91	20.85	15.89	0.28
3	14	2022	0.00	0.00	0.00	34.10	20.62	15.83	0.27
4	14	2022	0.00	0.00	0.00	33.85	20.54	15.81	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	15	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	10234	64	B			90.29				9.71
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

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OUTPUT SHEET

Current receptor

Receptor Name	15	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.2	33.9	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.02	15.82	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.22	0.02
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	15	2022	0.03	0.03	0.03	39.77	22.19	16.30	0.42
2	15	2022	0.01	0.01	0.01	35.47	21.01	15.94	0.30
3	15	2022	0.00	0.00	0.00	34.29	20.67	15.85	0.27
4	15	2022	0.00	0.00	0.00	33.92	20.56	15.82	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	16	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	10234	64	B			90.29				9.71
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	16	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.2	33.9	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.02	15.82	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.22	0.02
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	16	2022	0.03	0.03	0.03	39.77	22.19	16.30	0.42
2	16	2022	0.01	0.01	0.01	35.47	21.01	15.94	0.30
3	16	2022	0.00	0.00	0.00	34.29	20.67	15.85	0.27
4	16	2022	0.00	0.00	0.00	33.92	20.56	15.82	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	17	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	11079	48	A			96.11				3.89
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	17	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.2	33.9	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.02	15.82	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.20	0.02
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	17	2022	0.03	0.04	0.03	39.20	22.03	16.40	0.46
2	17	2022	0.01	0.01	0.01	35.30	20.96	15.98	0.31
3	17	2022	0.00	0.00	0.00	34.23	20.65	15.86	0.27
4	17	2022	0.00	0.00	0.00	33.90	20.56	15.82	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	18	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	16056	48	A			96.48				3.52
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	18	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.3	34.0	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.03	15.83	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.27	0.03
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	18	2022	0.05	0.06	0.04	41.10	22.54	16.63	0.55
2	18	2022	0.01	0.02	0.01	35.86	21.11	16.04	0.33
3	18	2022	0.00	0.01	0.00	34.41	20.71	15.88	0.28
4	18	2022	0.00	0.00	0.00	33.97	20.58	15.83	0.27

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	19	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	3636	112	A			100				0
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	19	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.1	33.8	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.0	20.5	$\mu g/m^3$	Annual mean*	20.5	$\mu g/m^3$
PM_{10}	15.8	0.02	15.82	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.07	0.02
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	19	2022	0.01	0.01	0.00	35.68	21.07	16.22	0.39
2	19	2022	0.00	0.00	0.00	34.28	20.67	15.92	0.29
3	19	2022	0.00	0.00	0.00	33.89	20.56	15.84	0.27
4	19	2022	0.00	0.00	0.00	33.77	20.52	15.82	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	20	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	19099	112	A			91.83				8.17
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	20	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.5	34.2	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.2	20.7	$\mu g/m^3$	Annual mean*	20.7	$\mu g/m^3$
PM_{10}	15.8	0.07	15.87	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.54	0.07
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	20	2022	0.04	0.04	0.06	48.52	24.42	17.83	1.27
2	20	2022	0.01	0.01	0.02	38.02	21.71	16.39	0.45
3	20	2022	0.00	0.00	0.01	35.13	20.91	16.00	0.31
4	20	2022	0.00	0.00	0.00	34.24	20.65	15.87	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	21	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	20414	112	A			90.27				9.73
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

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OUTPUT SHEET

Current receptor

Receptor Name	21	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.6	34.3	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.2	20.7	$\mu g/m^3$	Annual mean*	20.7	$\mu g/m^3$
PM_{10}	15.8	0.08	15.88	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.59	0.08
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	21	2022	0.04	0.05	0.07	50.06	24.79	17.91	1.33
2	21	2022	0.01	0.01	0.02	38.47	21.84	16.41	0.46
3	21	2022	0.00	0.00	0.01	35.28	20.95	16.00	0.32
4	21	2022	0.00	0.00	0.00	34.29	20.67	15.88	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	22	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	24841	112	A			96.22				3.78
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	22	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.5	34.2	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.08	15.88	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.47	0.08
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	22	2022	0.05	0.06	0.05	46.68	23.97	17.97	1.38
2	22	2022	0.01	0.02	0.01	37.48	21.57	16.43	0.47
3	22	2022	0.00	0.01	0.00	34.95	20.86	16.01	0.32
4	22	2022	0.00	0.00	0.00	34.17	20.64	15.88	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	23	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	9937	96	A			94.2				5.8
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	23	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.2	33.9	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.03	15.83	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.25	0.03
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	23	2022	0.02	0.02	0.02	40.51	22.38	16.59	0.54
2	23	2022	0.01	0.01	0.01	35.68	21.07	16.03	0.32
3	23	2022	0.00	0.00	0.00	34.36	20.69	15.88	0.28
4	23	2022	0.00	0.00	0.00	33.95	20.57	15.83	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	24	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	14957	48	A			96.37				3.63
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

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OUTPUT SHEET

Current receptor

Receptor Name	24	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.3	34.0	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.03	15.83	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.26	0.03
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	24	2022	0.05	0.05	0.04	40.95	22.50	16.60	0.54
2	24	2022	0.01	0.02	0.01	35.81	21.10	16.03	0.33
3	24	2022	0.00	0.01	0.00	34.40	20.70	15.88	0.28
4	24	2022	0.00	0.00	0.00	33.96	20.58	15.83	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	25	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	17139	48	A			96.66				3.34
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

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OUTPUT SHEET

Current receptor

Receptor Name	25	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.3	34.0	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.03	15.83	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.27	0.03
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	25	2022	0.05	0.06	0.04	41.17	22.56	16.64	0.56
2	25	2022	0.01	0.02	0.01	35.88	21.12	16.05	0.33
3	25	2022	0.00	0.01	0.00	34.42	20.71	15.88	0.28
4	25	2022	0.00	0.00	0.00	33.97	20.58	15.83	0.27

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	26	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	43251	96	A			96.56				3.44
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

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OUTPUT SHEET

Current receptor

Receptor Name	26	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.5	34.2	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.06	15.86	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.48	0.06
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	26	2022	0.05	0.10	0.08	47.03	24.05	17.55	1.08
2	26	2022	0.02	0.03	0.02	37.59	21.59	16.31	0.42
3	26	2022	0.01	0.01	0.01	34.99	20.87	15.97	0.30
4	26	2022	0.00	0.00	0.00	34.18	20.64	15.86	0.27

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	27	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	24841	112	A			96.22				3.78
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	27	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.5	34.2	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.08	15.88	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.47	0.08
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	27	2022	0.05	0.06	0.05	46.68	23.97	17.97	1.38
2	27	2022	0.01	0.02	0.01	37.48	21.57	16.43	0.47
3	27	2022	0.00	0.01	0.00	34.95	20.86	16.01	0.32
4	27	2022	0.00	0.00	0.00	34.17	20.64	15.88	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	28	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	24841	112	A			96.22				3.78
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	28	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.5	34.2	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.08	15.88	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.47	0.08
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	28	2022	0.05	0.06	0.05	46.68	23.97	17.97	1.38
2	28	2022	0.01	0.02	0.01	37.48	21.57	16.43	0.47
3	28	2022	0.00	0.01	0.00	34.95	20.86	16.01	0.32
4	28	2022	0.00	0.00	0.00	34.17	20.64	15.88	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	29	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	24049	112	A			90.97				9.03
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	29	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.6	34.3	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.2	20.7	$\mu g/m^3$	Annual mean*	20.7	$\mu g/m^3$
PM_{10}	15.8	0.08	15.88	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.61	0.08
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	29	2022	0.05	0.06	0.07	50.61	24.92	18.04	1.43
2	29	2022	0.01	0.02	0.02	38.63	21.88	16.45	0.48
3	29	2022	0.00	0.01	0.01	35.33	20.97	16.02	0.32
4	29	2022	0.00	0.00	0.00	34.31	20.68	15.88	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	30	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	21442	112	A			92.11				7.89
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	30	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.6	34.3	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.2	20.7	$\mu g/m^3$	Annual mean*	20.7	$\mu g/m^3$
PM_{10}	15.8	0.08	15.88	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.56	0.08
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	30	2022	0.04	0.05	0.06	49.01	24.54	17.92	1.34
2	30	2022	0.01	0.01	0.02	38.16	21.75	16.42	0.46
3	30	2022	0.00	0.00	0.01	35.18	20.92	16.00	0.32
4	30	2022	0.00	0.00	0.00	34.26	20.66	15.88	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	31	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	17801	48	A			94.76				5.24
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	31	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.3	34.0	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.03	15.83	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.32	0.03
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	31	2022	0.05	0.06	0.06	42.65	22.94	16.72	0.60
2	31	2022	0.01	0.02	0.02	36.31	21.24	16.07	0.34
3	31	2022	0.00	0.01	0.01	34.56	20.75	15.89	0.28
4	31	2022	0.00	0.00	0.00	34.02	20.59	15.83	0.27

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	32	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	7013	64	B			90.3				9.7
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	32	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.2	33.9	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.0	20.5	$\mu g/m^3$	Annual mean*	20.5	$\mu g/m^3$
PM_{10}	15.8	0.01	15.81	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.15	0.01
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	32	2022	0.02	0.02	0.02	37.86	21.67	16.14	0.36
2	32	2022	0.01	0.01	0.01	34.91	20.85	15.90	0.28
3	32	2022	0.00	0.00	0.00	34.10	20.62	15.83	0.27
4	32	2022	0.00	0.00	0.00	33.85	20.54	15.81	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	33	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	2763	64	B			90.3				9.7
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	33	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.1	33.8	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.0	20.5	$\mu g/m^3$	Annual mean*	20.5	$\mu g/m^3$
PM_{10}	15.8	0.00	15.80	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.06	0.00
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	33	2022	0.01	0.01	0.01	35.34	20.97	15.93	0.29
2	33	2022	0.00	0.00	0.00	34.18	20.64	15.84	0.27
3	33	2022	0.00	0.00	0.00	33.86	20.55	15.81	0.26
4	33	2022	0.00	0.00	0.00	33.76	20.52	15.80	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	34	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	34154	112	A			96.14				3.86
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	34	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.5	34.2	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.2	20.7	$\mu g/m^3$	Annual mean*	20.7	$\mu g/m^3$
PM_{10}	15.8	0.09	15.89	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.54	0.09
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	34	2022	0.05	0.08	0.07	48.51	24.41	18.26	1.61
2	34	2022	0.02	0.02	0.02	38.02	21.71	16.52	0.51
3	34	2022	0.01	0.01	0.01	35.13	20.91	16.04	0.33
4	34	2022	0.00	0.00	0.00	34.24	20.65	15.89	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	35	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	34154	112	A			96.14				3.86
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	35	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.5	34.2	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.2	20.7	$\mu g/m^3$	Annual mean*	20.7	$\mu g/m^3$
PM_{10}	15.8	0.09	15.89	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.54	0.09
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	35	2022	0.05	0.08	0.07	48.51	24.41	18.26	1.61
2	35	2022	0.02	0.02	0.02	38.02	21.71	16.52	0.51
3	35	2022	0.01	0.01	0.01	35.13	20.91	16.04	0.33
4	35	2022	0.00	0.00	0.00	34.24	20.65	15.89	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	36	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	7562	96	A			95.43				4.57
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	36	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.2	33.9	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.02	15.82	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.17	0.02
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	36	2022	0.02	0.02	0.02	38.48	21.84	16.39	0.45
2	36	2022	0.01	0.00	0.00	35.09	20.90	15.97	0.31
3	36	2022	0.00	0.00	0.00	34.16	20.63	15.86	0.27
4	36	2022	0.00	0.00	0.00	33.87	20.55	15.82	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3