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Step 1	Receptor name	37	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	38274	112	A			96.44				3.56
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	37	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	0.09	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	0.55	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	37	2022	0.06	0.09	0.07	48.91	24.51	18.37	1.70
2	37	2022	0.02	0.03	0.02	38.13	21.75	16.55	0.52
3	37	2022	0.01	0.01	0.01	35.17	20.92	16.05	0.33
4	37	2022	0.00	0.00	0.00	34.25	20.66	15.89	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	38	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	18792	112	A			96.13				3.87
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	38	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	0.07	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	0.42	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	38	2022	0.04	0.05	0.04	45.38	23.64	17.74	1.21
2	38	2022	0.01	0.01	0.01	37.11	21.46	16.37	0.44
3	38	2022	0.00	0.00	0.00	34.83	20.82	15.99	0.31
4	38	2022	0.00	0.00	0.00	34.12	20.62	15.87	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	39	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	11042	112	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	39	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	0.32	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	39	2022	0.03	0.03	0.03	42.48	22.90	17.13	0.81
2	39	2022	0.01	0.01	0.01	36.26	21.23	16.19	0.38
3	39	2022	0.00	0.00	0.00	34.55	20.74	15.93	0.29
4	39	2022	0.00	0.00	0.00	34.02	20.59	15.85	0.27

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	40	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	38274	112	A			96.44				3.56
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	40	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	0.09	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	0.55	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	40	2022	0.06	0.09	0.07	48.91	24.51	18.37	1.70
2	40	2022	0.02	0.03	0.02	38.13	21.75	16.55	0.52
3	40	2022	0.01	0.01	0.01	35.17	20.92	16.05	0.33
4	40	2022	0.00	0.00	0.00	34.25	20.66	15.89	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	41	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	2348	112	A			100				0
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	41	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	0.0	33.7	$\mu g/m^3$	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	0.05	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	41	2022	0.01	0.01	0.00	34.98	20.87	16.07	0.34
2	41	2022	0.00	0.00	0.00	34.07	20.61	15.88	0.28
3	41	2022	0.00	0.00	0.00	33.82	20.54	15.83	0.26
4	41	2022	0.00	0.00	0.00	33.75	20.51	15.81	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	42	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	9625	48	A			94.7				5.3
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	42	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	42	2022	0.03	0.03	0.03	39.09	22.00	16.35	0.44
2	42	2022	0.01	0.01	0.01	35.27	20.95	15.96	0.30
3	42	2022	0.00	0.00	0.00	34.22	20.65	15.85	0.27
4	42	2022	0.00	0.00	0.00	33.90	20.56	15.82	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	43	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											

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OUTPUT SHEET

Current receptor

Receptor Name	43	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	43	2022	0.05	0.06	0.05	46.68	23.97	17.97	1.38
2	43	2022	0.01	0.02	0.01	37.48	21.57	16.43	0.47
3	43	2022	0.00	0.01	0.00	34.95	20.86	16.01	0.32
4	43	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	44	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	18792	112	A			96.13				3.87
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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Current receptor

Receptor Name	44	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	0.07	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	0.42	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	44	2022	0.04	0.05	0.04	45.38	23.64	17.74	1.21
2	44	2022	0.01	0.01	0.01	37.11	21.46	16.37	0.44
3	44	2022	0.00	0.00	0.00	34.83	20.82	15.99	0.31
4	44	2022	0.00	0.00	0.00	34.12	20.62	15.87	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	45	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	2348	112	A			100				0
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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Current receptor

Receptor Name	45	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	0.0	33.7	$\mu g/m^3$	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	0.05	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	45	2022	0.01	0.01	0.00	34.98	20.87	16.07	0.34
2	45	2022	0.00	0.00	0.00	34.07	20.61	15.88	0.28
3	45	2022	0.00	0.00	0.00	33.82	20.54	15.83	0.26
4	45	2022	0.00	0.00	0.00	33.75	20.51	15.81	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	46	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	17322	48	A			95.57				4.43
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	46	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	0.30	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	46	2022	0.05	0.06	0.05	41.97	22.77	16.68	0.58
2	46	2022	0.01	0.02	0.01	36.11	21.19	16.06	0.33
3	46	2022	0.00	0.01	0.00	34.50	20.73	15.88	0.28
4	46	2022	0.00	0.00	0.00	34.00	20.59	15.83	0.27

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	47	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	7401	48	B			92.21				7.79
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	47	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	0.15	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	47	2022	0.02	0.03	0.02	37.75	21.64	16.19	0.38
2	47	2022	0.01	0.01	0.01	34.88	20.84	15.91	0.29
3	47	2022	0.00	0.00	0.00	34.09	20.61	15.84	0.27
4	47	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	48	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	7670	48	B			91.88				8.12
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

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Current receptor

Receptor Name	48	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	0.16	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	48	2022	0.02	0.03	0.02	37.98	21.70	16.20	0.38
2	48	2022	0.01	0.01	0.01	34.95	20.86	15.92	0.29
3	48	2022	0.00	0.00	0.00	34.11	20.62	15.84	0.27
4	48	2022	0.00	0.00	0.00	33.86	20.54	15.81	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	49	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	7788	48	B			91.96				8.04
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	49	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	0.16	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	49	2022	0.02	0.03	0.02	38.02	21.72	16.21	0.38
2	49	2022	0.01	0.01	0.01	34.96	20.86	15.92	0.29
3	49	2022	0.00	0.00	0.00	34.12	20.62	15.84	0.27
4	49	2022	0.00	0.00	0.00	33.86	20.55	15.81	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	50	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	7788	48	B			91.96				8.04
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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Current receptor

Receptor Name	50	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	0.16	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	50	2022	0.02	0.03	0.02	38.02	21.72	16.21	0.38
2	50	2022	0.01	0.01	0.01	34.96	20.86	15.92	0.29
3	50	2022	0.00	0.00	0.00	34.12	20.62	15.84	0.27
4	50	2022	0.00	0.00	0.00	33.86	20.55	15.81	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	51	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	5946	48	B			97.92				2.08
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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Current receptor

Receptor Name	51	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	0.08	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	51	2022	0.02	0.02	0.01	35.96	21.14	16.07	0.34
2	51	2022	0.01	0.01	0.00	34.36	20.69	15.88	0.28
3	51	2022	0.00	0.00	0.00	33.92	20.56	15.83	0.26
4	51	2022	0.00	0.00	0.00	33.78	20.52	15.81	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	52	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	4298	48	B			97.59				2.41
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	52	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	0.06	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	52	2022	0.01	0.02	0.01	35.37	20.98	16.00	0.31
2	52	2022	0.00	0.00	0.00	34.19	20.64	15.86	0.27
3	52	2022	0.00	0.00	0.00	33.86	20.55	15.82	0.26
4	52	2022	0.00	0.00	0.00	33.76	20.52	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	53	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	4298	48	B			97.59				2.41
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	53	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	0.06	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	53	2022	0.01	0.02	0.01	35.37	20.98	16.00	0.31
2	53	2022	0.00	0.00	0.00	34.19	20.64	15.86	0.27
3	53	2022	0.00	0.00	0.00	33.86	20.55	15.82	0.26
4	53	2022	0.00	0.00	0.00	33.76	20.52	15.81	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	54	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	18582	96	A			93.06				6.94
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	54	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	0.44	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	54	2022	0.04	0.04	0.05	45.70	23.72	17.13	0.81
2	54	2022	0.01	0.01	0.01	37.20	21.49	16.19	0.38
3	54	2022	0.00	0.00	0.00	34.86	20.83	15.93	0.29
4	54	2022	0.00	0.00	0.00	34.14	20.63	15.85	0.27

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	1	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	18986	96	A			96.71				3.29
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	1	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	0.34	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	1	2022	0.04	0.04	0.03	43.20	23.09	17.06	0.77
2	1	2022	0.01	0.01	0.01	36.47	21.29	16.17	0.37
3	1	2022	0.00	0.00	0.00	34.62	20.76	15.92	0.29
4	1	2022	0.00	0.00	0.00	34.04	20.60	15.85	0.27

* See Footnote 32 in DMRB Volume 11 Chapter 3

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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			96.81				3.19
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	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	0.34	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	43.12	23.06	17.05	0.77
2	2	2022	0.01	0.01	0.01	36.44	21.28	16.17	0.37
3	2	2022	0.00	0.00	0.00	34.61	20.76	15.92	0.29
4	2	2022	0.00	0.00	0.00	34.04	20.60	15.85	0.27

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	3	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	13422	48	A			96.19				3.81
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	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	0.24	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	40.32	22.33	16.53	0.51
2	3	2022	0.01	0.01	0.01	35.63	21.05	16.01	0.32
3	3	2022	0.00	0.00	0.00	34.34	20.68	15.87	0.28
4	3	2022	0.00	0.00	0.00	33.94	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 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			96.36				3.64
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	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	0.34	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	43.00	23.04	17.01	0.75
2	4	2022	0.01	0.01	0.01	36.41	21.27	16.15	0.36
3	4	2022	0.00	0.00	0.00	34.60	20.76	15.92	0.29
4	4	2022	0.00	0.00	0.00	34.04	20.60	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			93.14				6.86
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	0.5	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	0.08	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	0.53	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	48.24	24.35	17.90	1.32
2	5	2022	0.01	0.01	0.02	37.94	21.69	16.41	0.46
3	5	2022	0.00	0.00	0.01	35.10	20.90	16.00	0.31
4	5	2022	0.00	0.00	0.00	34.23	20.65	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			92.3				7.7
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	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	0.58	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	49.57	24.67	18.01	1.41
2	6	2022	0.01	0.02	0.02	38.33	21.80	16.44	0.48
3	6	2022	0.00	0.01	0.01	35.23	20.94	16.01	0.32
4	6	2022	0.00	0.00	0.00	34.28	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	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			93.9				6.1
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	0.67	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	52.12	25.28	18.55	1.86
2	7	2022	0.02	0.03	0.03	39.07	22.00	16.60	0.54
3	7	2022	0.01	0.01	0.01	35.48	21.01	16.07	0.33
4	7	2022	0.00	0.00	0.00	34.37	20.69	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			93.56				6.44
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	36.69	21.35	16.07	0.34
2	8	2022	0.00	0.00	0.00	34.57	20.75	15.88	0.28
3	8	2022	0.00	0.00	0.00	33.99	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 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	19062	104	A			94.15				5.85
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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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	0.44	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	0.05	45.90	23.77	17.41	0.98
2	9	2022	0.01	0.01	0.01	37.26	21.50	16.27	0.41
3	9	2022	0.00	0.00	0.00	34.88	20.84	15.96	0.30
4	9	2022	0.00	0.00	0.00	34.14	20.63	15.86	0.27

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	10	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	19062	48	A			94.15				5.85
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	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	0.35	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	43.35	23.12	16.76	0.62
2	10	2022	0.02	0.02	0.02	36.51	21.30	16.08	0.34
3	10	2022	0.00	0.01	0.01	34.63	20.77	15.89	0.28
4	10	2022	0.00	0.00	0.00	34.05	20.60	15.83	0.27

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	11	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	2418	64	B			93.1				6.9
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	11	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	0.0	33.7	$\mu g/m^3$	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	0.05	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	11	2022	0.01	0.01	0.01	34.95	20.86	15.91	0.29
2	11	2022	0.00	0.00	0.00	34.06	20.61	15.83	0.27
3	11	2022	0.00	0.00	0.00	33.82	20.53	15.81	0.26
4	11	2022	0.00	0.00	0.00	33.75	20.51	15.80	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

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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			90.92				9.08
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	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	0.58	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	0.06	49.58	24.68	17.90	1.32
2	12	2022	0.01	0.01	0.02	38.33	21.80	16.41	0.46
3	12	2022	0.00	0.00	0.01	35.23	20.94	16.00	0.31
4	12	2022	0.00	0.00	0.00	34.28	20.67	15.88	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	13	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	96	A			93.92				6.08
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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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	0.41	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	44.90	23.52	17.09	0.79
2	13	2022	0.01	0.01	0.01	36.97	21.42	16.18	0.37
3	13	2022	0.00	0.00	0.00	34.78	20.81	15.92	0.29
4	13	2022	0.00	0.00	0.00	34.11	20.62	15.85	0.27

* See Footnote 32 in DMRB Volume 11 Chapter 3

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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			86.17				13.83
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	0.16	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	38.16	21.75	16.13	0.36
2	14	2022	0.00	0.00	0.01	35.00	20.87	15.90	0.28
3	14	2022	0.00	0.00	0.00	34.13	20.62	15.83	0.27
4	14	2022	0.00	0.00	0.00	33.86	20.55	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			94.32				5.68
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	0.18	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	0.02	38.64	21.88	16.26	0.40
2	15	2022	0.01	0.01	0.01	35.14	20.91	15.93	0.29
3	15	2022	0.00	0.00	0.00	34.18	20.64	15.84	0.27
4	15	2022	0.00	0.00	0.00	33.88	20.55	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 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	10234	64	B			94.32				5.68
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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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	0.18	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	0.02	38.64	21.88	16.26	0.40
2	16	2022	0.01	0.01	0.01	35.14	20.91	15.93	0.29
3	16	2022	0.00	0.00	0.00	34.18	20.64	15.84	0.27
4	16	2022	0.00	0.00	0.00	33.88	20.55	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	17	Receptor number	1
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	20	11079	48	A			95.33				4.67
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	17	Receptor number	1
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	0.03	0.03	mg/m^3	Annual mean*	0.03	mg/m^3
Benzene	0.00	0.04	0.04	µg/m^3	Annual mean	0.04	µg/m^3
1,3-butadiene	0.00	0.03	0.03	µg/m^3	Annual mean	0.03	µg/m^3
NO_x	33.7	5.9	39.6	µg/m^3	Not applicable		
NO_2	20.5	1.6	22.1	µg/m^3	Annual mean*	22.1	µg/m^3
PM_{10}	15.8	0.62	16.42	µg/m^3	Annual mean	16.4	µg/m^3
					Days >50µg/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 (µg/m^3)	1,3-butadiene (µg/m^3)	NOx (µg/m^3)	PM_{10} (µg/m^3)
1	0.03	0.04	0.03	5.89	0.62
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 µg/m^3	Annual mean µg/m^3	Annual mean µg/m^3	Annual mean µg/m^3	Annual mean µg/m^3	Days >50µg/m^3
1	17	2022	0.03	0.04	0.03	39.59	22.14	16.42	0.46
2	17	2022	0.01	0.01	0.01	35.42	20.99	15.98	0.31
3	17	2022	0.00	0.00	0.00	34.27	20.66	15.86	0.27
4	17	2022	0.00	0.00	0.00	33.91	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			95.94				4.06
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	0.28	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	0.05	41.47	22.64	16.64	0.56
2	18	2022	0.01	0.02	0.01	35.97	21.15	16.05	0.33
3	18	2022	0.00	0.01	0.00	34.45	20.72	15.88	0.28
4	18	2022	0.00	0.00	0.00	33.98	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											