

Audit Summary Report

Version	Oct24	Commission No.	4	Phase 1					
PCM Link	6079	Road/Location	A1, Sandy					Area	8
PCM predictions of NO₂ concentrations (µg/m³)									
Year	2018	2019	2020	2021	2022	2023	2024	2025	2026
PCM Modelled NO ₂ concentration (µg/m ³)	32	30	29	27	25	23	22	21	19
Qualifying Feature									
Satellite imagery indicates public access within 15m from the PCM link.									
Air Quality Monitoring?									
Yes									
Is the Air Quality Monitoring within 10m, to support Phase 1 decision?									
Yes									
Air quality monitoring has been undertaken at a location representative of relevant receptors over recent years. Historic monitoring data at location ID: N20 shows the annual mean NO ₂ concentration consistently above the limit value. However, monitored concentrations were below the limit value in 2022 and 2023 with monitoring results of 39µg/m ³ and 32µg/m ³ respectively.									
Mitigation required?									
No – based on existing monitoring.									
Summary									
This audit report has identified: No exceedance of the annual NO₂ limit value along this PCM link.									
Recommendation									
It is recommended that PCM link 6079 does not require further consideration and stops at the end of Phase 1. However, National Highways has been supporting Central Bedfordshire Council for a number of years in relation to exceedances of the limit value along this link looking at potential measures to improve air quality along this section of the A1. Whilst the most recent data indicates that this link is now compliant									

with the limit value, National Highways will continue to work in partnership with the council, providing support and advice where necessary.

Supporting Activities

None

JAQU Comments

Audit Summary Report

Version	Oct24	Commission No.	4	Phase 3					
PCM Link	16025	Road/Location	M6, Birmingham	Area 9					
PCM predictions of NO₂ concentrations (µg/m³)									
Year	2018	2019	2020	2021	2022	2023	2024	2025	2026
PCM Modelled NO ₂ concentration (µg/m ³)	36	34	33	31	29	27	26	25	23
National Highway Modelled NO ₂ concentration* (µg/m ³)	-	-	-	-	35	32	30	28	26
*Representative of roof level (7.5m) at the nearest qualifying feature.									
Qualifying Feature									
Satellite imagery indicates sensitive receptors within 15m from the PCM link, including a within 2m of the M6 carriageway.									
Air Quality Monitoring?									
Yes									
Is the Air Quality Monitoring within 10m, to support Phase 1 decision?									
Yes									
Air quality monitoring has been undertaken at a location representative of relevant receptors over recent years. Monitoring data along this link from 2022 ranged from 25 – 38µg/m³. However, as a property was identified within 2m of the carriageway, elevated road air quality modelling was required to assess the NO₂ concentration at this sensitive receptor. The M6 is elevated approximately 9m above ground level in this location. As such, various heights, including those representing ground floor, 1st floor and roof level, were modelled. Roof level is approximately 7.5m from ground level, and this is the closest elevation of the property to the M6.									
Mitigation required?									
No – verified modelled concentrations (at 7.5m in height) show no exceedances of the annual mean NO ₂ limit value at the closest receptor along this SRN PCM link.									
Summary									
This audit report has identified:									

• No exceedance of the annual NO₂ limit value along this PCM link.
Recommendation
It is recommended that PCM link 16025 does not require further consideration and stops at the end of Phase 3.
Supporting Activities
None
JAQU Comments

Audit Summary Report

Version	Oct24	Commission No.	4	Phase 1					
PCM Link	16321	Road/Location	M3, Eastleigh	Area 3					
PCM predictions of NO₂ concentrations (µg/m³)									
Year	2018	2019	2020	2021	2022	2023	2024	2025	2026
PCM Modelled NO ₂ concentration (µg/m ³)	38	36	34	32	30	28	27	25	24
Qualifying Feature									
Satellite imagery indicates public access within 15m from the PCM link.									
Air Quality Monitoring?									
Yes									
Is the Air Quality Monitoring within 10m, to support Phase 1 decision?									
No									
In November 2023, JAQU advised National Highways that based on the recent local authority modelling and assessment in support of the Government's National Air Quality Plan, the modelled annual mean NO₂ concentration alongside this PCM link was 47µg/m³ in 2020. However, review of all available data along this link has indicated that concentrations are below the limit value. Monitored concentrations in 2023 range from 17µg/m³ to 30µg/m³ at locations close to this PCM link.									
Mitigation required?									
No – based on existing monitoring concentrations below the limit value at qualifying features along this link.									
Summary									
This audit report has identified: No exceedance of the annual NO₂ limit value along this PCM link.									
Recommendation									
It is recommended that PCM link 16321 does not require further consideration and stops at the end of Phase 1.									

Supporting Activities
None.
JAQU Comments

Audit Summary Report

Version	Oct24	Commission No.						4	Phase 1	
PCM Link	56285	Road/Location						A36, Salisbury	Area 2	
PCM predictions of NO₂ concentrations (µg/m³)										
Year	2018	2019	2020	2021	2022	2023	2024	2025	2026	
PCM Modelled NO ₂ concentration (µg/m ³)	22	20	19	18	17	16	15	14	14	
Qualifying Feature										
Satellite imagery indicates qualifying features within 15m from the PCM link.										
Air Quality Monitoring?										
Yes										
Is the Air Quality Monitoring within 10m, to support Phase 1 decision?										
Yes										
Air quality monitoring has been undertaken at a location representative of relevant receptors over recent years. All monitoring data from 2023 along this SRN PCM link shows concentrations below the annual mean NO ₂ limit value, with concentrations between 22µg/m ³ and 36µg/m ³ .										
Mitigation required?										
No										
Based on the monitoring data to date concentrations are below the limit value and there is no requirement for mitigation measures.										
Summary										
This audit report has identified: No exceedance of the annual NO₂ limit value along this PCM link.										
Recommendation										
It is recommended that PCM link 56285 does not require further consideration and stops at the end of Phase 1.										

Supporting Activities
Air quality monitoring is recommended for SRN PCM link 56285, in line with National Highways' air quality evaluation strategy. This is because it is within 10% of the limit value, i.e. (36-40µg/m³).
JAQU Comments

Audit Summary Report

Version	Feb25	Commission No.	4	Phase 1					
PCM Link	73482	Road/Location	M25, Arlington Crescent					Area	M25 DBFO
PCM predictions of NO₂ concentrations (µg/m³)									
Year	2018	2019	2020	2021	2022	2023	2024	2025	2026
PCM Modelled NO ₂ concentration (µg/m ³)	37	35	33	31	29	27	26	24	23
Distance Corrected Monitored NO ₂ concentration* (µg/m ³)	-	-	-	-	-	38	36	33	32
*Post 2023 future NO ₂ concentrations based on roadside NO ₂ projections published by Defra									
Qualifying Feature									
Satellite imagery indicates public access and sensitive receptors within 15m from the PCM link.									
Air Quality Monitoring?									
Yes									
Is the Air Quality Monitoring within 10m, to support Phase 1 decision?									
No									
The nearest local authority diffusion tube to the M25 along this SRN PCM link is BB52 which is located on the front of a property within Arlington Crescent, approximately 12m from the motorway. Adjoining residential gardens along Arlington Crescent are nearer to the M25 than the monitoring site, approximately 6m away. Due to the difference in distance between the monitoring location and residential gardens, the monitoring data has been distance corrected. The distance corrected result is below the limit value with a corrected concentration of 38µg/m³ in 2023.									
Mitigation required?									
No – As the distance corrected monitoring concentration is below the annual mean NO ₂ limit value, measures are not required for this SRN PCM link.									
Summary									
This audit report has identified:									

- Distance corrected local authority monitoring is below the annual mean NO₂ limit value in 2023.

Recommendation

It is recommended that link 73482 does not require further consideration and stops at the end of Phase 3.

Supporting Activities**JAQU Comments**

Audit Summary Report

Version	Oct24	Commission No.	4	Phase 1					
PCM Link	73608	Road/Location	M27, Southampton					Area	3
PCM predictions of NO₂ concentrations (µg/m³)									
Year	2018	2019	2020	2021	2022	2023	2024	2025	2026
PCM Modelled NO ₂ concentration (µg/m ³)	33	32	30	29	27	25	24	23	22
Qualifying Feature									
Satellite imagery indicates no qualifying features within 15m of the PCM link.									
Mitigation required?									
No – Review of the satellite imagery indicates there are no residential properties or public access within 15m of the PCM link.									
Summary									
This audit report has identified: No qualifying features within 15m of the PCM link.									
Recommendation									
It is recommended that PCM link 73608 does not require further consideration and stops at the end of Phase 1.									
Supporting Activities									
None									
JAQU Comments									

Audit Summary Report

Version	Oct24	Commission No.		4	Phase 1				
PCM Link	77829	Road/Location		A628, High Peak			Area 12		
PCM predictions of NO₂ concentrations (µg/m³)									
Year	2018	2019	2020	2021	2022	2023	2024	2025	2026
PCM Modelled NO ₂ concentration (µg/m ³)	21	19	18	17	16	15	14	13	13
Qualifying Feature									
Satellite imagery indicates public access within 15m from the PCM link.									
Air Quality Monitoring?									
Yes									
Is the Air Quality Monitoring within 10m, to support Phase 1 decision?									
Yes									
Air quality monitoring has been undertaken at a location representative of relevant receptors over recent years. Local authority monitoring data from 2023 along this SRN PCM link shows concentrations below the annual mean NO ₂ limit value, with concentrations between 20µg/m ³ and 31µg/m ³ .									
Mitigation required?									
No									
Based on the monitoring data to date concentrations are below the limit value and there is no requirement for mitigation measures.									
Summary									
This audit report has identified: No exceedance of the annual NO₂ limit value along this PCM link.									
Recommendation									
It is recommended that PCM link 77829 does not require further consideration and stops at the end of Phase 1.									

Supporting Activities
None
JAQU Comments