Audit Summary Report

							IN PHASE 1	
PCM Link	6035		Road/Location M60, Bury				Area NW	
PCM predictions	of NO	₂ concentratio	ons (µg/m³)					
Year		2018	2019	2020	2021	2022	2023	
PCM Modelled N Concentration (μ		31	30	28	26	25	23	
Qualifying Featu	ire							
Satellite imagery	indicate	s Public Acce	ss and Sens	itive Receptors	s within 15m	of the PCI	M link.	
Air Quality Moni	toring?	·						
Yes								
Is the Air Quality	/ Monit	oring within 1	0m, to supp	oort Phase 1d	ecision?			
No								
Air quality monito receptors over reexceeding the an	cent yea	ars. Monitorin	g data from 2	2019 show cor				
Mitigation requi	red?							
Yes								
Possible Mitigat	ion Opt	ions						
KEY:		× - Not possible		✓ - Possible	? - 1	? - More research required		
Option	Feasible to bring compliance forward?		Summary					
Source – reduci	ng emis	ssions from tl	ne SRN					
Electric vans	*		Research completed for Highways England indicates that it would only be possible to bring forward a maximum of 250 electric vans over the next few years in any one location.					

		To achieve this would require the creation of a specialist centre.			
Traffic Management	?	As part of Phase 1, it has not been possible to look into this measure in any great detail. However, as part of Phase 2 we will work with our traffic and operations colleagues to see if there are any attainable local traffic management measures, beyond speed limits, that could be applied in this locality and are likely to result in different driver behaviours to those seen in the research project. As part of Phase 1 we are unable to determine the likelihood of traffic management being an achievable			
		measure along this PCM link.			
Speed Management of 60mph	*	The average speed limit along the M60 is 60mph. Consequently, speed management is unlikely to be appropriate for this part of the network.			
Bus Retrofit	×	It has been agreed with JAQU that given the incredibly small number of bus journeys on the motorway network this mitigation will result in no discernible reduction in NOx emissions along this link and therefore, this measure is not being progressed.			
HGV Retrofit	*	No accredited retrofit system is currently available for HGVs nor is it known the mechanism for delivery. As such, it is anticipated that this measure would require a Government led scheme for delivery and Highways England is not able to progress this measure at this time.			
Pathway – preventing the emissions reaching receptors					
9.5m high barrier	×	Emerging evidence based on air quality monitoring research undertaken by Highways England indicates a 2 – 5μg/m³ reduction in annual mean NO₂ concentrations behind a 9.5m overhanging barrier.			
		This PCM link has been reviewed and based on professional judgement it is not considered possible to build a barrier at this location because of the physical constraints.			
Tunnels / canopies, Bypass	×	The current programme to build a tunnel / canopy or a bypass is estimated to be at least between 5 – 10 years. This means that none of these measures could be delivered earlier than the indicative modelled compliance date.			
Receptor – dealing with concentrations at the affected receptors					
Any other local measures	×	Footpath			

		Footpaths are located within 15m along this PCM link. A review of the existing footpaths has identified that there is no potential alternative route for footpath mitigation.				
	*	Low Friction Road Surfacing				
		Highways England has recently undertaken research looking into the difference in measured exhaust emissions for a range of vehicles driven on a section of road with the low friction road surface and hot rolled asphalt. The outcomes of the research concluded there was no statistically significant difference in measured NOx emissions between the two road surfaces. Therefore, the empirical evidence does not support this as a measure to achieve compliance in the shortest possible timescales.				
Summary	Summary					
This audit report has identified:						
 Defra's PCM modelling has identified a modelled annual mean NO₂ concentration of 30μg/m³ in 2019. 						
Sensitive receptors and public access are located within 15m of the PCM link.						
 Traffic management measures will be considered as part of the Phase 2 assessment to determine whether there are potential measures, which may assist in bringing forward compliance. 						
Recommendation						
It is recommended that PCM link 6053 is taken forward to Phase 2 for more detailed assessment as part of Commission No. 3.						
Supporting Activities						
Air quality monitoring						
JAQU Comments						