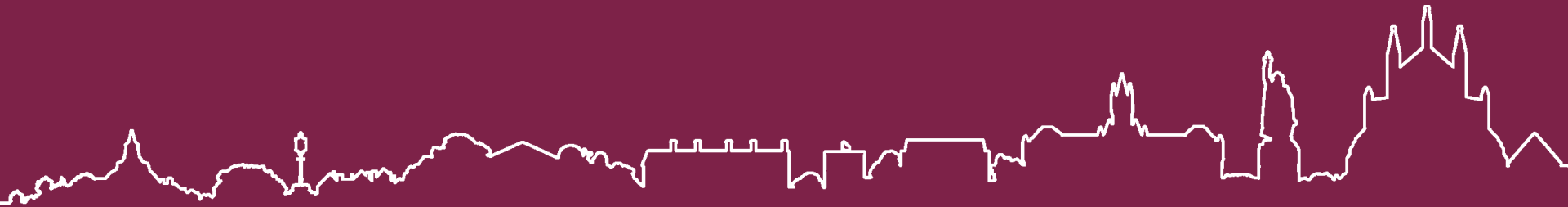








Air Quality Update

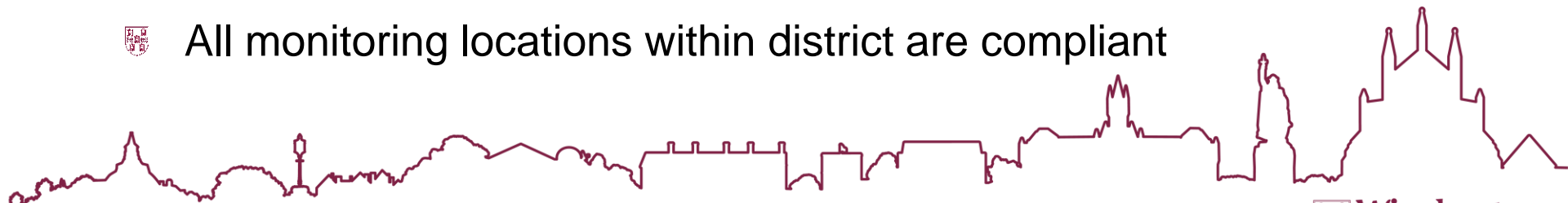
Health and Environment Policy Committee 6th Dec 2022



REVIEW OF AIR QUALITY ACTION PLAN

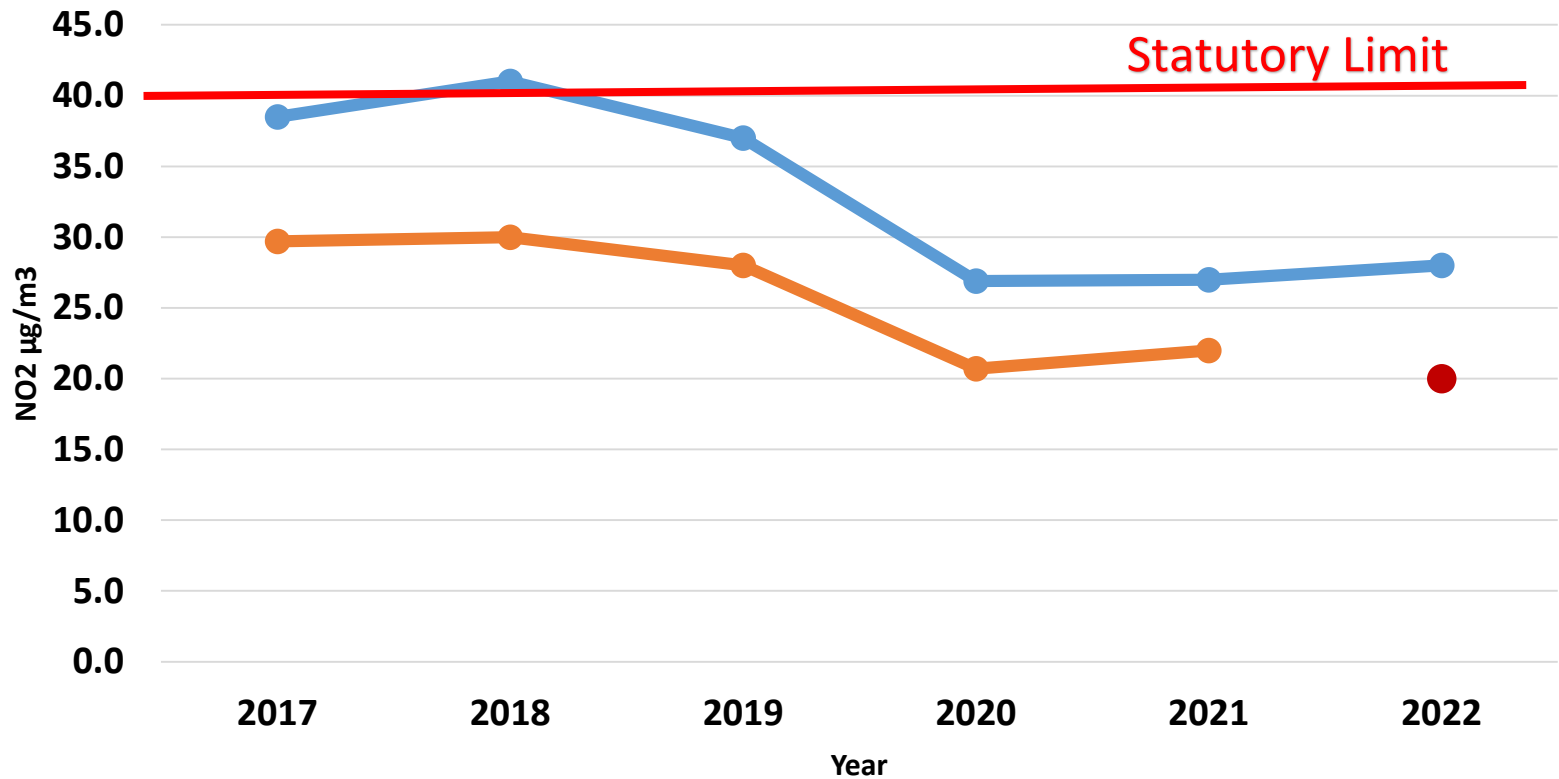
Current Position

-  2017 AQAP 'expired' and needs to be reviewed
-  Current AQAP focus is on NO_x, however PM_{2.5} a 'new' parameter
-  Size of AQMA has remained unchanged since 2003
-  Air Quality steadily improved since 2003
-  Latest data suggests that most of the AQMA now complies with current legal levels
-  All monitoring locations within district are compliant



REVIEW OF AQAP

AQMS Results - Annual Mean NO₂

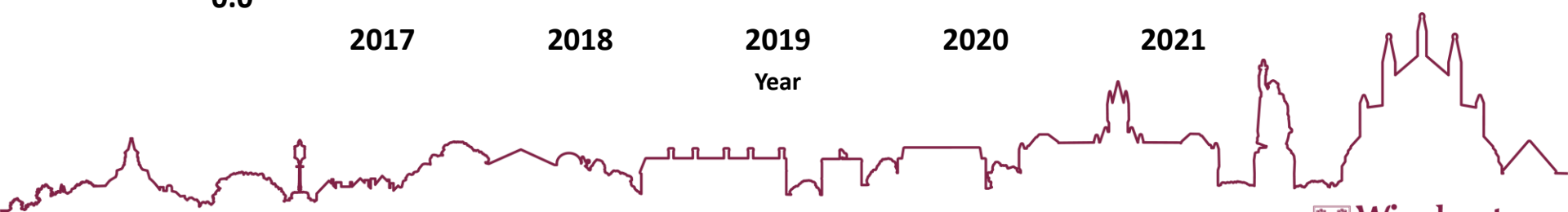
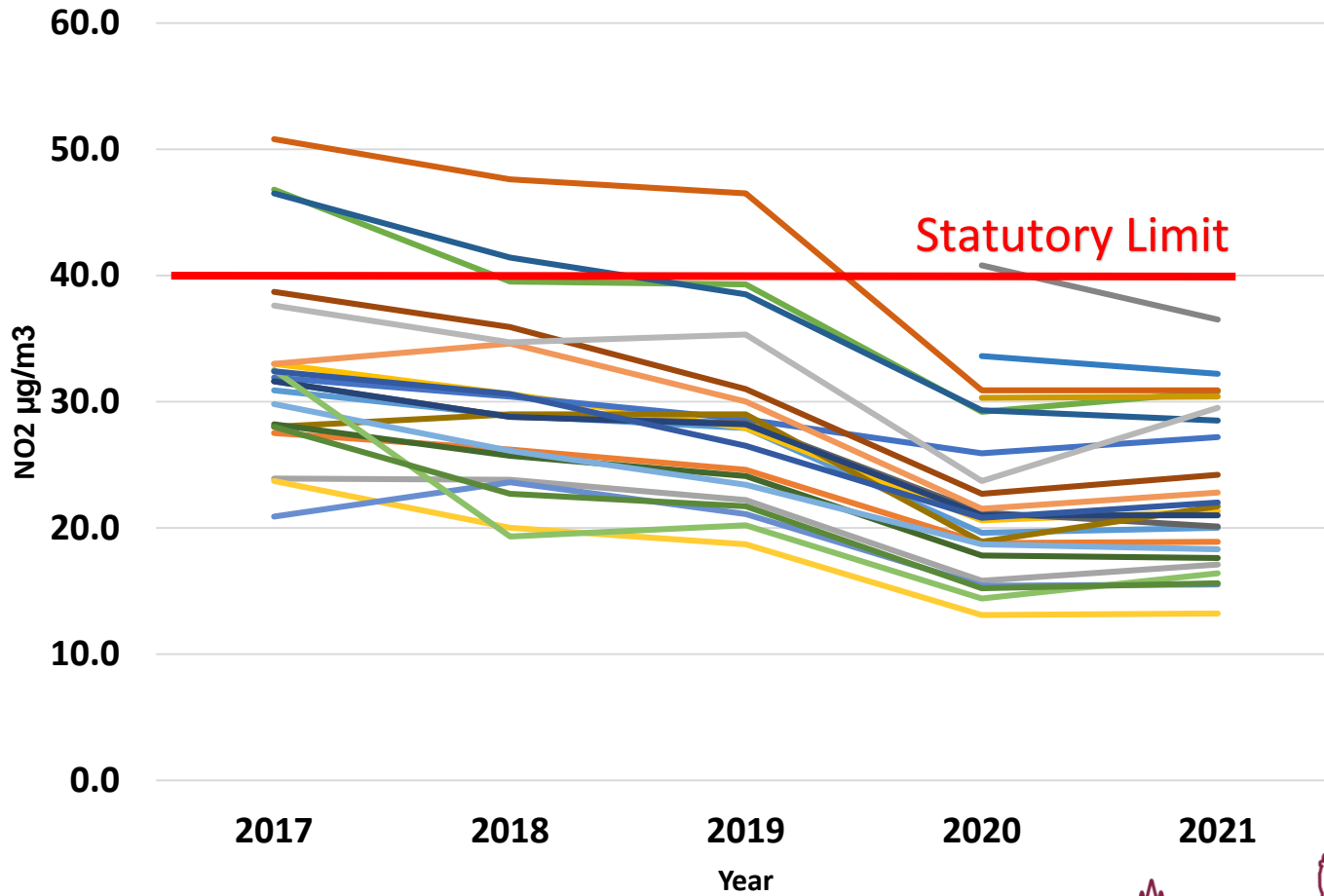


● St Georges Street AQMS ● Chesil Street AQMS ● Romsey Road AQMS



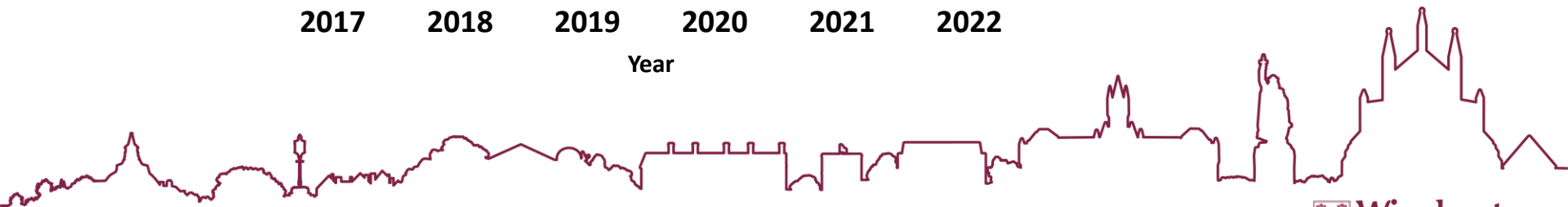
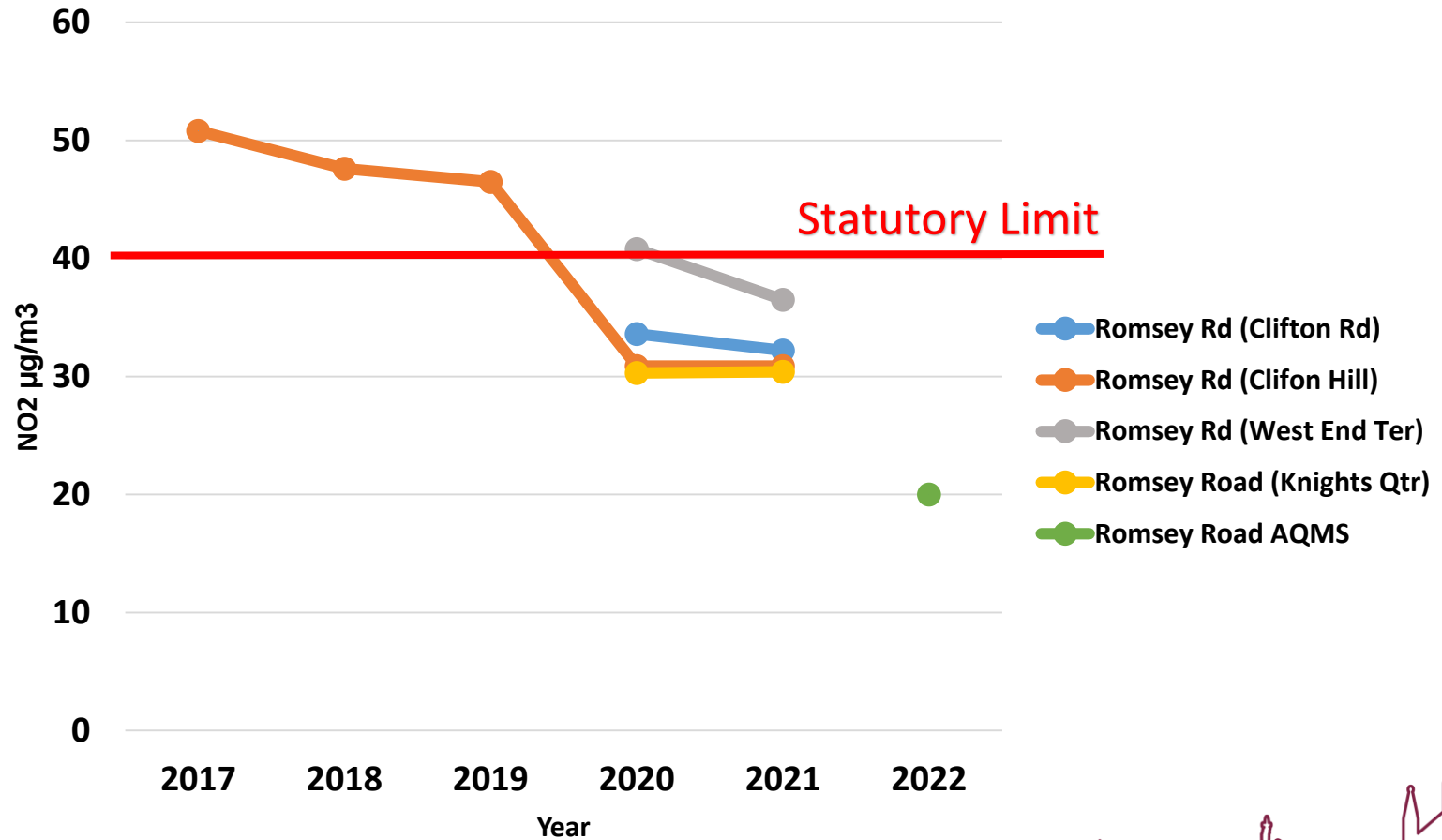
REVIEW OF AQAP

City NOx Tubes Annual Mean Levels



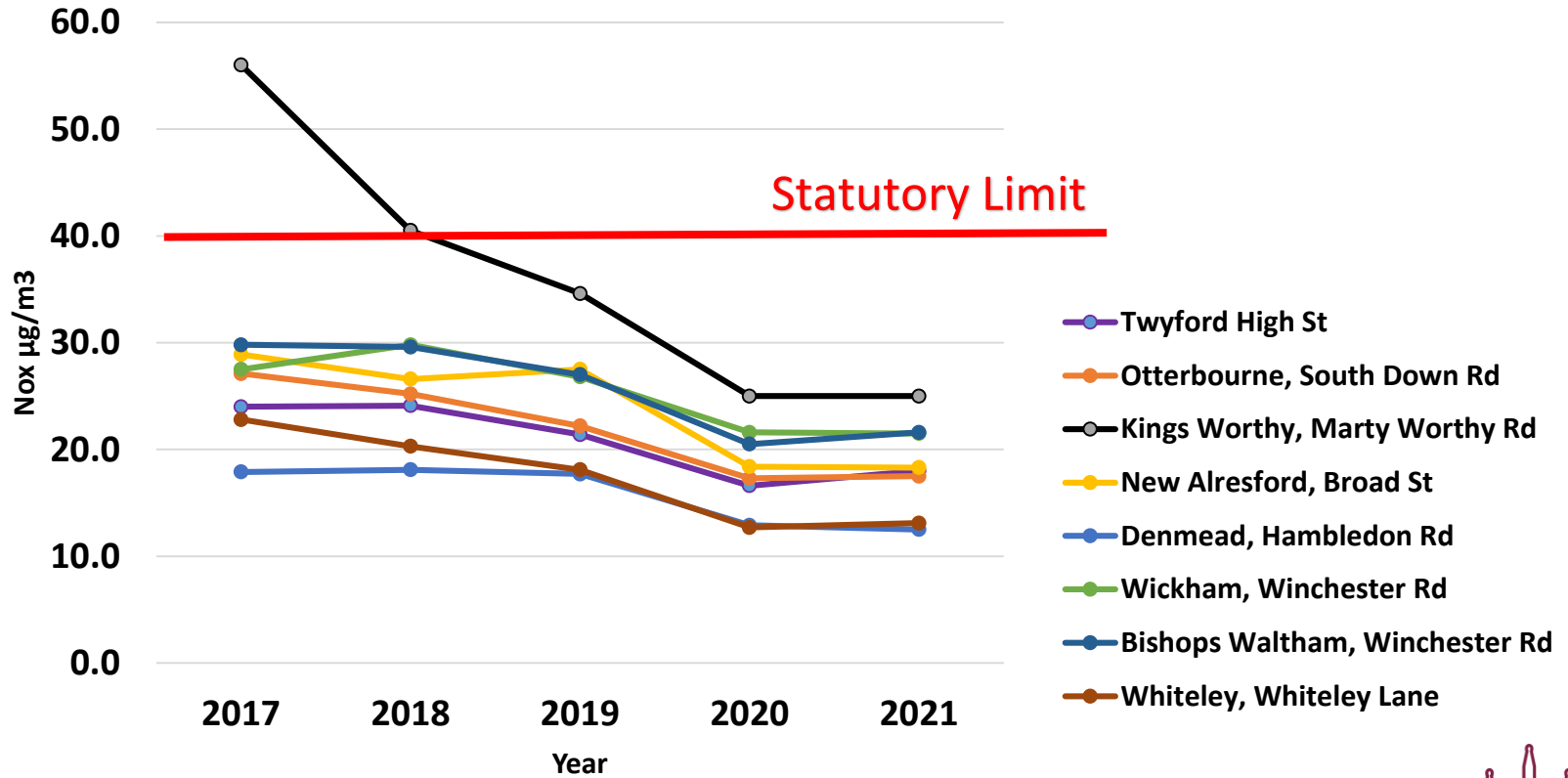
REVIEW OF AQAP

Romsey Road NOx Tubes and AQMS Data



REVIEW OF AQAP

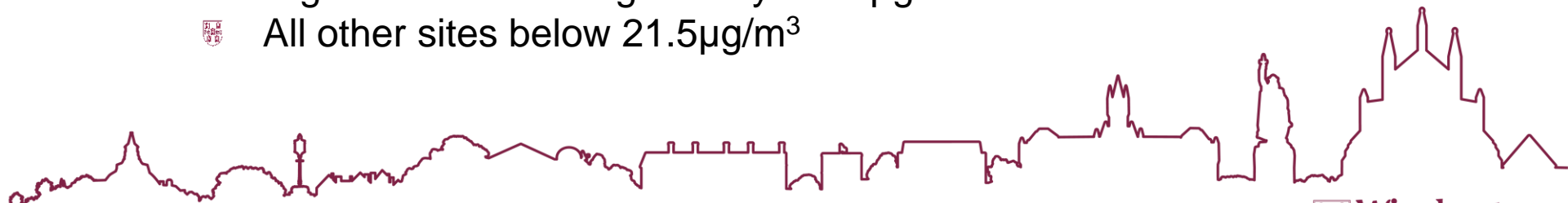
District NOx Tubes



REVIEW OF AQAP






Main Points

- Current data shows NO₂ compliance in all areas within the AQMA
- NO₂ levels remain well below pre pandemic levels, but with upward trend
- Romsey Road 'Hot Spot' remains a concern with NO_x tubes showing levels of 36.5µg/m³
- All district sites are compliant with current NO₂ standards;
 - Highest levels in Kingsworthy at 25µg/m³;
 - All other sites below 21.5µg/m³




REVIEW OF AQAP

Recommendations

-  **To review AQAP as follows:**
 -  **Retain existing AQMA but with targeted ‘deliverable’ actions focused on improving air quality along Romsey Road;**
 -  **Undertake detailed work to model those ‘deliverable’ actions* that would derive the greatest benefits;**
 -  **Review 2022 and 2023 data and if within AQ Standards consider revocation of AQMA;**
 -  **Review the future need for NO_x tube monitoring/deployment in district**

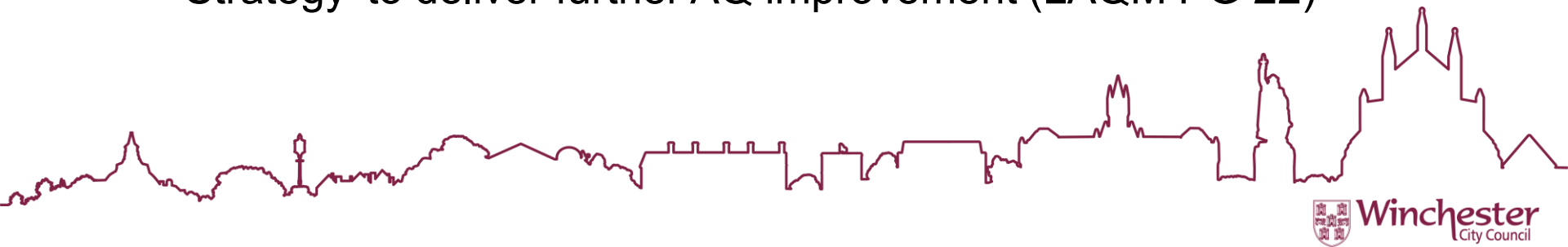
ADOPTION OF LOCAL AQ TARGETS

Bespoke AQ Standards for Winchester








-  In striving for further AQ improvements, WCC is considering adopting more stringent AQ standards in line with WHO Guidelines

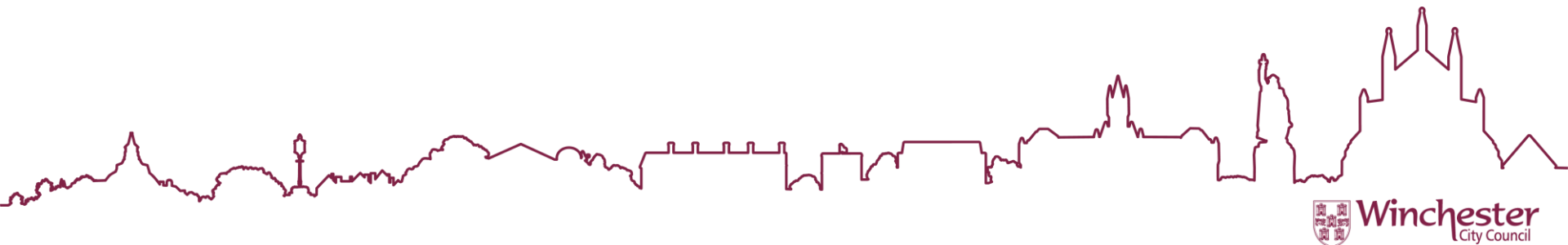
Interim Annual Mean Targets $\mu\text{g}/\text{m}^3$					
	1	2	3	4	AQG Level
NO_2	40	30	20	-	10
PM_{10}	70	50	30	20	15
$\text{PM}_{2.5}$	35	25	15	10	5

-  Aligns with DEFRA policy on LA's having an 'Air Quality Strategy' to deliver further AQ improvement (LAQM PG 22)



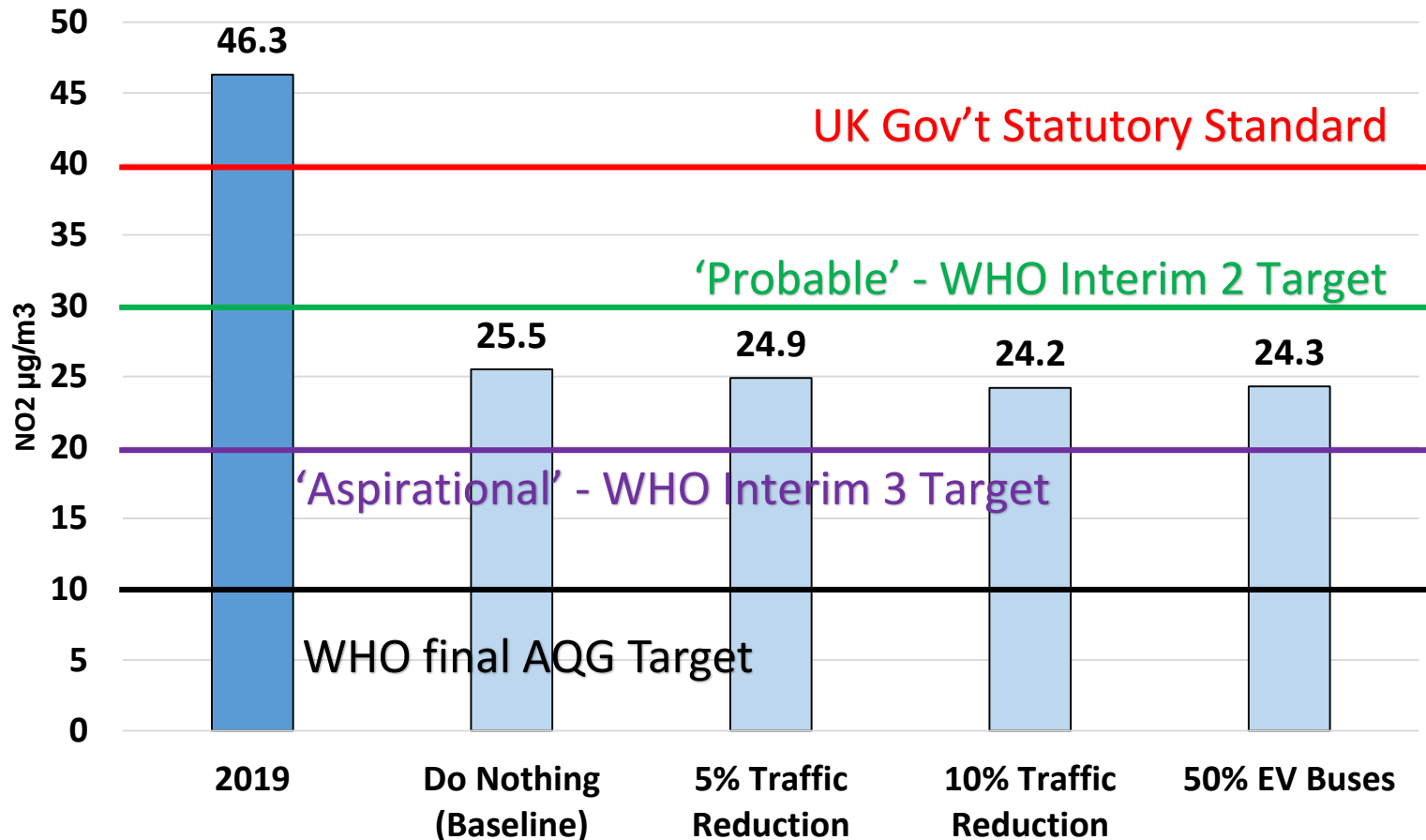
ADOPTION OF LOCAL AQ TARGETS

-  AECOM commissioned to identify which WHO targets are 'Probable' or 'Aspirational' over the 5 year life of a plan i.e. by 2027;
-  In their report, AECOM modelled 4 'scenarios' on which to base AQ improvements:
 -  Baseline levels i.e. no change beyond national & local trends observed by 2019
 -  5% reduction in traffic
 -  10% reduction in traffic
 -  50% conversion buses to electric
-  Following slides are based on Romsey Rd 'worst case'



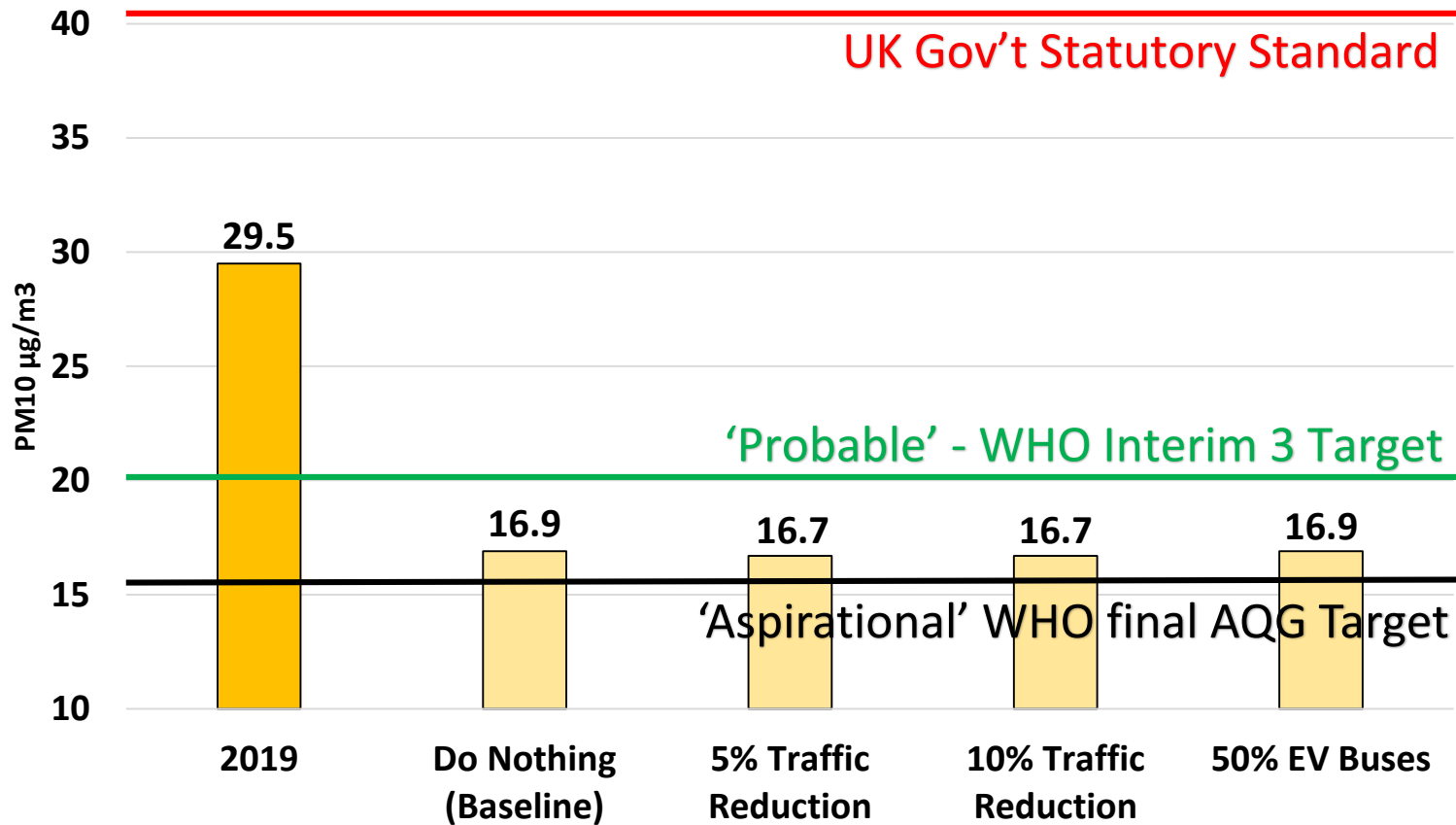
ADOPTION OF LOCAL AQ TARGETS

Modelled 2027 Annual Mean NO_2 (Romsey Road)



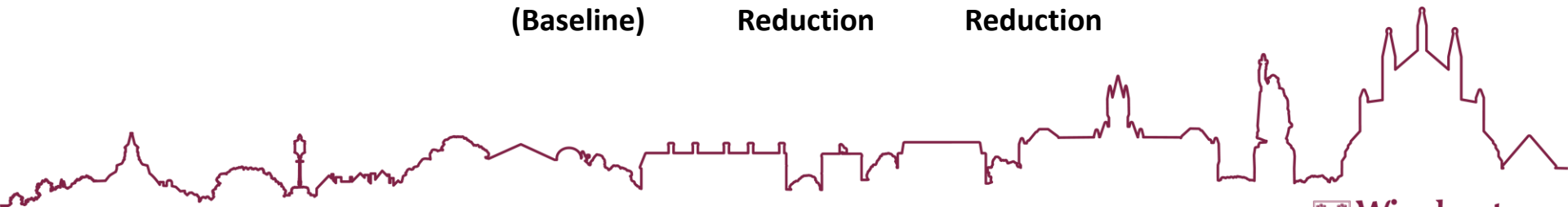
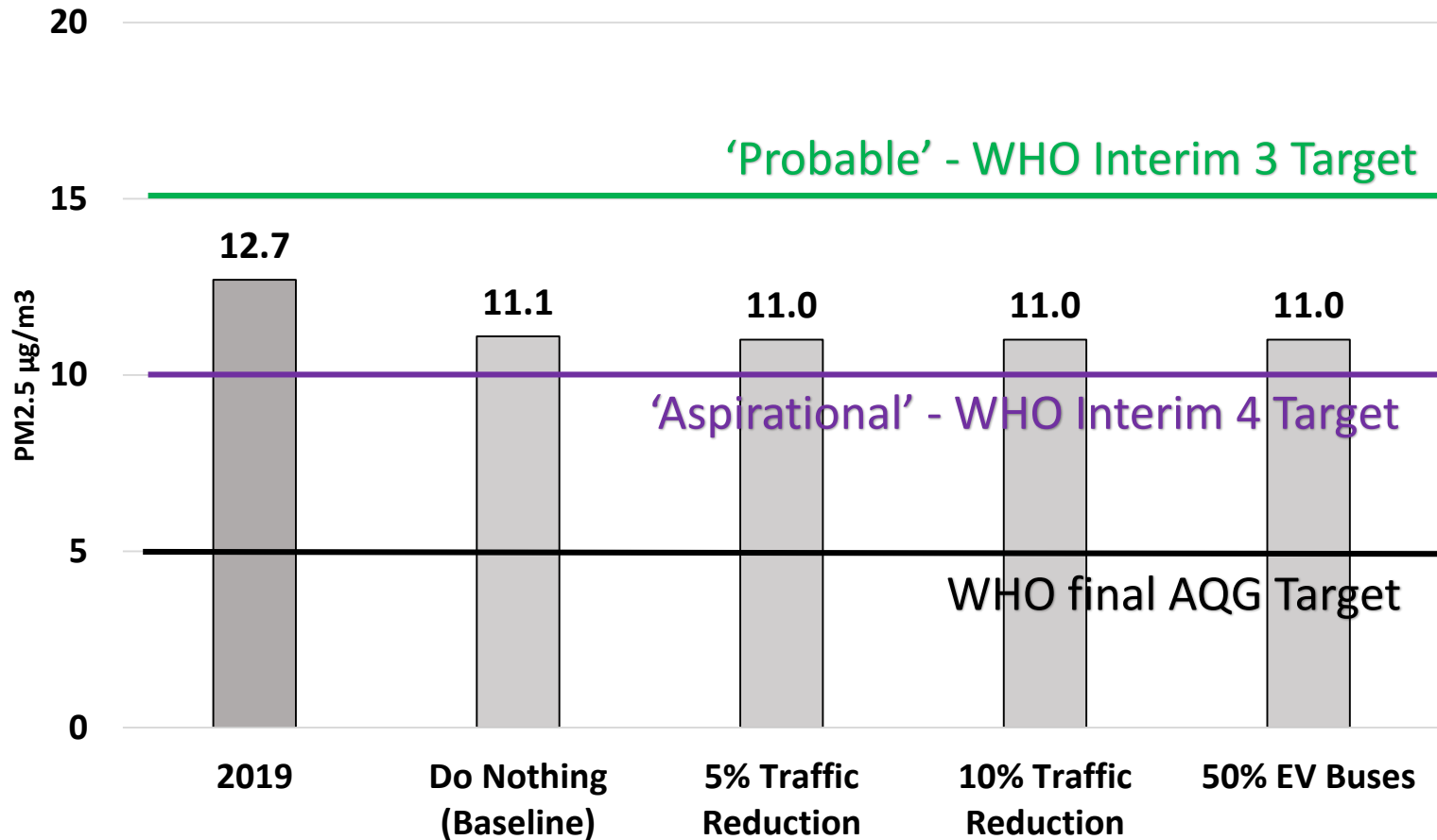
ADOPTION OF LOCAL AQ TARGETS

Modelled 2027 Annual Mean PM10 (Romsey Road)






ADOPTION OF LOCAL AQ TARGETS

Modelled 2027 Annual Mean PM2.5 (Romsey Road)




ADOPTION OF LOCAL AQ TARGETS

Main Points

-  WCC will achieve 'Probable' but not 'Aspirational' WHO targets in all 3 parameters by 2027.
-  If WCC wish to achieve 'Aspirational' targets, then a combination of measures will need to be delivered.
-  No matter what is done WCC won't likely achieve 'Aspirational' PM_{2.5} targets. Explain.

Recommendation

-  To explore the adoption of a local future 'Air Quality Strategy' which seeks to deliver the 'Probable' AQ targets by 2027

Questions

