

INTERIM TECHNICAL NOTE LIVEABLE CROUCH END FACTUAL AIR QUALITY BASELINE SURVEY/ MONITORING

BACKGROUND OF THE STUDY

- The aim of this assessment was to monitor Nitrogen dioxide - NO₂ across Crouch End as part of the Liveable Crouch End Project through indicative low-cost diffusion tubes at 27No locations. This note provides current NO₂ at the 27No locations being monitored.
- Overall monitoring for PM₁₀ across London shows that the current objective values are largely met. Therefore, monitoring for PM₁₀ and PM_{2.5} ceased in Haringey in 2014 and 2016 respectively. Historical PM_{2.5} monitoring data is available at: www.uk-air.defra.gov.uk. SO₂ monitoring is also not carried out in Haringey.
- The air quality monitoring is being undertaken according to the UK Defra guidance Local Air Quality Management (LAQM) Technical Guidance (TG16) published in 2016
- Monitoring period will cover a period of 12-month period (i.e. from March 2019 to February 2019) and tubes are exposed in accordance with the UK Defra guidance LAQM.TG (16). Upon completion all the diffusion tube results will be appropriately bias adjusted, using the analytical laboratory adjustment factors.
- The national air Quality objectives are presented on Table 1.

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Table 1. National Air Quality Standards and Objectives

Pollutant	Objective (UK)	Averaging Period	Date ¹
Nitrogen dioxide - NO ₂	200 µg m ⁻³ not to be exceeded more than 18 times a year	1-hour mean	31 Dec 2005
	40 µg m ⁻³	Annual mean	31 Dec 2005
Particles - PM ₁₀	50 µg m ⁻³ not to be exceeded more than 35 times a year	24-hour mean	31 Dec 2004
	40 µg m ⁻³	Annual mean	31 Dec 2004
Particles - PM _{2.5}	25 µg m ⁻³	Annual mean	2020
	Target of 15% reduction in concentration at urban background locations	3 year mean	Between 2010 and 2020
Sulphur Dioxide (SO ₂)	266 µg m ⁻³ not to be exceeded more than 35 times a year	15 minute mean	31 Dec 2005
	350 µg m ⁻³ not to be exceeded more than 24 times a year	1 hour mean	31 Dec 2004
	125 µg m ⁻³ not to be exceeded more than 3 times a year	24 hour mean	31 Dec 2004

Note: ¹ by which to be achieved by and maintained thereafter

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AIR QUALITY MONITORING LOCATIONS

- Figure 1 presents the monitoring locations with CE1 to CE27 related to the crouch end project exclusively.

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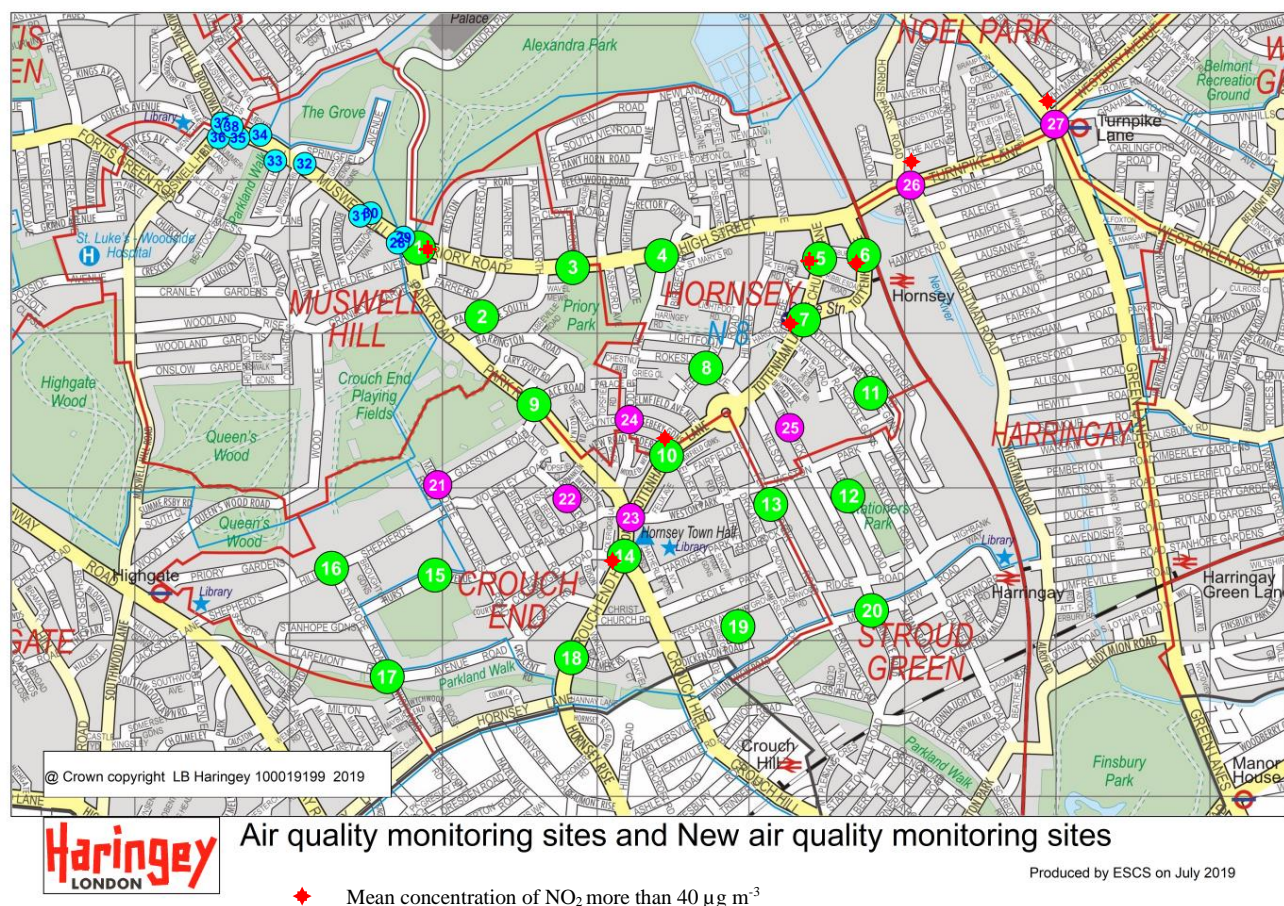


Figure 1 Monitoring location plan

RESULTS

- Table 2 represents the NO₂ (not Ratified and Bias-adjusted) monitoring results.
- Monitoring locations near the main road exceed the Air quality objectives, which is consistent with concentration predicated by modelling. The results show the highest concentrations of 60 µg/m³ on Turnpike Lane and the lowest on residential areas.

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Table 2 Comparison of Monitoring Results with AQOs

LOCATION	DESCRIPTION	Concentration of NO ₂ in µg/m ³					
		JAN	FEB	MAR	APR	MAY	AVERAGE
CE1	Priory Road	None	None	46	47	NA	47
CE2	Park Avenue South	"	"	27	26	24	26
CE3	Priory Road	"	"	36	38	34	36
CE4	Priory Road	"	"	36	35	31	34
CE5	Church Lane	"	"	40	41	40	40
CE6	Tottenham Lane	"	"	46	47	51	48
CE7	Tottenham Lane	"	"	NA	56	45	51
CE8	Hermiston Avenue	"	"	36	29	28	31
CE9	Park Road	"	"	35	30	27	31
CE10	Tottenham Lane	"	"	42	48	37	42
CE11	Rathcoole Gardens	"	"	30	28	25	28
CE12	Mayfield Road	"	"	26	NA	22	24
CE13	Ferne Park Road	"	"	39	35	35	36
CE14	Crouch Hill	"	"	53	48	54	52
CE15	Hurst Avenue	"	"	23	NA	21	22
CE16	Shepherd's Hill	"	"	34	37	27	33
CE17	Stanhope Road	"	"	32	23	29	28
CE18	Crouch End Hill	"	"	34	24	26	28
CE19	Elm Grove	"	"	27	25	24	25
CE20	Mount View Road	"	"	32	29	27	29
CE21	Montenotte	"	"	27	21	17	22
CE22	Berleley Road	"	"	45	28	24	32
CE23	Park Road	"	"	26	39	45	37
CE24	Middle Lane	"	"	32	36	NA	34
CE25	Inderwick Road	"	"	27	17	22	22
CE26	Turnpike Lane	"	"	57	67	61	62
CE27	Turnpike Lane	"	"	57	75	NA	66

NA Missing/No diffusion tube due to vandalism

X Concentration of NO₂ more than 40 µg m⁻³

Note: The results will be ratified when the monitoring has been completed in accordance with Technical Guidance (TG16) and an interpretative report produced in due course.