

## **Update to Arnolds Field Leadership Group on 15 February 2023 regarding health risk assessment.**

A second specialist contractor, TRL has been appointed to undertake further air quality monitoring to complement the enhanced monitoring of particulates and NO<sub>2</sub> previously agreed with ERG Imperial College.

ERG installed two AQ nodes last year. The nodes are small solar powered units and have been located in residents' gardens. Three further nodes are now in stock and after calibration will be installed at other sites around Arnolds Field. Residents have secured an identical node from a partnership between Imperial College and Bloomberg. Like the other community groups given a node via this scheme, they will receive expert advice on interpreting the data generated from ERG. Data from all the nodes around Arnolds Field will be shared in more or less real time on the [Breathe London](#) website.

TRL will be using two larger automatic monitoring units that require mains power plus numerous passive diffusion tubes that will surround the site.

TRL, ERG and Council officers (and residents) are currently liaising about sites for the remaining equipment that will best enable the investigation to quantify the contribution of the Arnolds Field site to air pollution experienced by local residents.

The intention is to complete installation by April.

A request to NHS North East London for data regarding presentations of residents with respiratory symptoms is still being processed.

### **Air Quality in November 22 – Jan '23**

Data for Nov'22 – Jan'23 from the two new nodes, as well as pre-existing ones further away from Arnolds Field are shown below.

NB. The London Fire Brigade report no call outs for fires at Arnolds Field during November '22 to January '23.

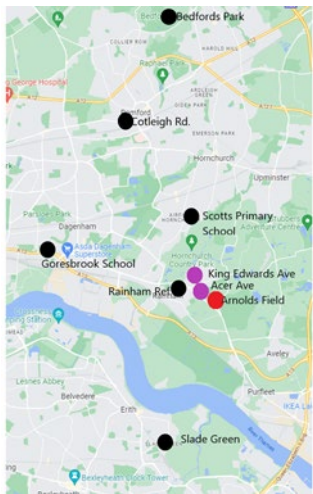
The data shows levels of particulates and NO<sub>2</sub> in residential areas adjacent to Arnolds Field

- displayed the same trends over time as seen in areas further away
- were similar to if not lower than that in areas further away
- were consistently 'low' when compared to the short-term thresholds set in the UK Government's 'Daily Air Quality Index' (DAQI)

See [here](#) for further information about UK legal limits for air pollution and guidance from WHO.

## PM 2.5 particulates

Approx. distance from Arnolds Field	Site name	November 2022												December 2022												January 2023											
		[Grid of 36 columns of data points for each month]																																			
6.5 km W	Goresbrook school	[Grid of data points]																																			
1 km N	King Edwards Ave.	[Grid of data points]																																			
0.5 km N	Acer Ave.	[Grid of data points]																																			
1.2 km NW	Rainham ref.	[Grid of data points]																																			
3 km N	Scotts prim school	[Grid of data points]																																			
7 km N	Cotleigh rd	[Grid of data points]																																			
10 km N	Bedfords park	[Grid of data points]																																			
3 km SW	Slade green	[Grid of data points]																																			



- Arnolds Field
- Additional nodes
- Pre-existing nodes

Band	Index	PM2.5 particulates	Nitrogen dioxide
		24 hour mean ( $\mu\text{g}/\text{m}^3$ )	1 hour mean ( $\mu\text{g}/\text{m}^3$ )
Low	1	0-11	0-66
	2	12-23	67-133
	3	24-35	134-200
Moderate	4	36-41	201-267
	5	42-46	268-334
	6	47-53	335-400
High	7	54-58	401-467
	8	59-64	468-534
	9	65-70	535-600
Very High	10	71 >	601 >

## Nitrogen dioxide

Approx. distance from Arnolds Field	Site name	November 2022												December 2022												January 2023											
		[Grid of 36 columns of data points for each month]																																			
6.5 km W	Goresbrook school	[Grid of data points]																																			
1 km N	King Edwards Ave.	[Grid of data points]																																			
0.5 km N	Acer Ave.	[Grid of data points]																																			
1.2 km NW	Rainham ref.	[Grid of data points]																																			
3 km N	Scotts prim school	[Grid of data points]																																			
7 km N	Cotleigh rd	[Grid of data points]																																			
10 km N	Bedfords park	[Grid of data points]																																			
3 km SW	Slade green	[Grid of data points]																																			