



2020 Air Quality Annual Status Report (ASR)

In fulfilment of Part IV of the
Environment Act 1995
Local Air Quality Management

July 2020

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Executive Summary: Air Quality in Our Area

Air Quality in Hart District Council

Air pollution is associated with a number of adverse health impacts. It is recognised as a contributing factor in the onset of heart disease and cancer. Additionally, air pollution particularly affects the most vulnerable in society: children and older people, and those with heart and lung conditions. There is also often a strong correlation with equalities issues, because areas with poor air quality are also often the less affluent areas^{1,2}.

The annual health cost to society of the impacts of particulate matter alone in the UK is estimated to be around £16 billion³.

Air Quality Management Areas (AQMAs) can be declared when there is an exceedance or likely to be an exceedance of an air quality objective. Hart District Council does not currently have any AQMAs.

Hart District Council measures nitrogen dioxide (NO₂) at 13 locations within the district using passive diffusion tubes. All annual average NO₂ concentrations measured during 2019 were below the 40 µg.m⁻³ annual air quality objective. Measured annual mean NO₂ concentrations in the district have generally declined over the last five years.

A review of planning applications, the local road network and industrial processes in the district has not identified any new major sources of emissions in 2019.

Actions to Improve Air Quality

Hart District Council have undertaken a number of measures to help improve air quality in the district:

- Promoting the uptake of low and zero emission vehicles, including installation of a new electric vehicle charging point.
- Protecting air quality through our planning processes, new local plan and Local Transport Plans and strategies.

¹ Environmental equity, air quality, socioeconomic status and respiratory health, 2010

² Air quality and social deprivation in the UK: an environmental inequalities analysis, 2006

³ Defra. Abatement cost guidance for valuing changes in air quality, May 2013

Conclusions and Priorities

The NO₂ concentrations measured in Hart District Council were below the national limit value at all measurement sites. A review of current planning applications identified no new developments that are likely to have significant adverse impacts on air quality.

Hart District Council will continue to monitor NO₂ using our network of passive diffusion tubes. We will continue to encourage the uptake of low emission transport and protect air quality through the local planning process.

Local Engagement and How to get Involved

A key source of localised air pollution is road traffic. The public can help improve air quality within Hart District Council by:

- Using your car less and use public transport instead if you can
- Walk or cycle (which is good for your health too)
- Car share if possible
- Use a low emission vehicle such as an electric or hybrid car
- Avoid driving during congested peak traffic periods

Heating systems for homes and other buildings can be a source of air pollution, for example the combustion of fuels (e.g. coal, gas or wood) result in emissions of pollutants to air. The emissions to air from domestic heating can be reduced by:

- Insulate your home efficiently and be energy efficient
- Use electric heating powered by non-combustion forms of renewable energy

More information on this and links to other resources are available at

<http://www.hart.gov.uk/pollution-nuisance> and <https://uk-air.defra.gov.uk/>

DEFRA have published their Clean Air Strategy 2019 document highlighting sources of air pollution and the best approach to reducing emissions. For more information please visit

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/770715/clean-air-strategy-2019.pdf

Public Health England have published an air pollution guidance document (available at <https://www.gov.uk/government/publications/health-matters-air-pollution/health-matters-air-pollution>). This guidance focuses on the health impacts and cost that air pollution can impose on the population, highlighting the financial and social need to reduce air pollution.

Guidance on domestic fires and wood burning

Open fires and wood-burning appliances can be a source of air pollution. The public can help reduce poor air quality when using these appliances by:

- Regularly maintaining and servicing your stove
- Regularly sweep chimneys
- Burn seasoned wood (including Ready to Burn)
- Not burning treated waste wood or household rubbish
- Consider purchasing a stove that has been approved for use in smoke control areas by Defra or Ecodesign Ready stove
- Check whether you live in a Smoke Controlled Area

More information (including Smoke Control Areas legislation) can be found at the following links:

- [DEFRA Open fires and wood burning stoves \(A practical guide\)](#)
- <https://woodsurre.co.uk/are-you-ready-to-burn/>
- <https://smokecontrol.defra.gov.uk/fuels.php>
- <https://smokecontrol.defra.gov.uk/appliances.php>
- <https://burnright.co.uk/>

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1 Local Air Quality Management

This report provides an overview of air quality in Hart District Council during 2019. It fulfils the requirements of Local Air Quality Management (LAQM) as set out in Part IV of the Environment Act (1995) and the relevant Policy and Technical Guidance documents.

The LAQM process places an obligation on all local authorities to regularly review and assess air quality in their areas, and to determine whether or not the air quality objectives are likely to be achieved. Where an exceedance is considered likely the local authority must declare an Air Quality Management Area (AQMA) and prepare an Air Quality Action Plan (AQAP) setting out the measures it intends to put in place in pursuit of the objectives. This Annual Status Report (ASR) is an annual requirement showing the strategies employed by Hart District Council to improve air quality and any progress that has been made.

The statutory air quality objectives applicable to LAQM in England can be found in Table E.1 in Appendix E.

2 Actions to Improve Air Quality

2.1 Air Quality Management Areas

Air Quality Management Areas (AQMAs) are declared when there is an exceedance or likely exceedance of an air quality objective. After declaration, the authority must prepare an Air Quality Action Plan (AQAP) within 12-18 months setting out measures it intends to put in place in pursuit of compliance with the objectives.

Hart District Council currently does not have any AQMAs. For reference, a map of Hart District Council's monitoring locations is available in Appendix D.

2.2 Progress and Impact of Measures to address Air Quality in Hart District Council

Defra's appraisal of last year's ASR concluded that monitoring results continue to demonstrate that Hart DC is compliant with national air quality objectives. Hart DC were commended for carrying out a review of the 2017 monitoring network and implementing appropriate changes. As good practice, Hart DC will continue to review the monitoring network.

Hart District Council has taken forward a number of direct measures during the current reporting year of 2019 in pursuit of improving local air quality. Details of all measures completed, in progress or planned are set out in Table 2.2.

Key completed measures are:

- Installation of an electric vehicle charging point in Church Road car park in Fleet town centre in August 2016 to promote the uptake of low and zero emission vehicles.
- Planning policies and Local Transport Plans in place to help protect air quality.

The Council adopted the Hart Local Plan (Strategy and Sites) 2032 on 30 April 2020. Hart District Council anticipates that the measures stated above will help contribute to continued compliance with the national air quality objectives.

Table 2.1 – Progress on Measures to Improve Air Quality

Measure No.	Measure	EU Category	EU Classification	Date Measure Introduced	Organisations involved	Funding Source	Key Performance Indicator	Reduction in Pollutant / Emission from Measure	Progress to Date	Estimated / Actual Completion Date	Comments / Barriers to implementation
1	Planning policies and Local Transport Plans in place to help protect air quality.	Policy Guidance and Development Control	Other policy	On-going	Local Authority		Number of planning applications where air quality has been screened/assessed	Not quantifiable	Implementation on-going	Policy already in place	
2	Installation of an electric vehicle charging point	Promoting Low Emission Transport	Procuring alternative Refuelling infrastructure to promote Low Emission Vehicles, EV recharging, Gas fuel recharging	August 2016	Local Authority		Use of the charging point		Implementation on-going	August 2016	

2.3 PM_{2.5} – Local Authority Approach to Reducing Emissions and/or Concentrations

As detailed in Policy Guidance LAQM.PG16 (Chapter 7), local authorities are expected to work towards reducing emissions and/or concentrations of PM_{2.5} (particulate matter with an aerodynamic diameter of 2.5µm or less). There is clear evidence that PM_{2.5} has a significant impact on human health, including premature mortality, allergic reactions, and cardiovascular diseases.

Hart District Council is taking the following measures to address PM_{2.5}:

Hart District Council is committed to promoting the uptake of low and zero emission vehicles. Our first electric vehicle charging point was installed in Church Road, Fleet, in August 2016. The Council is entering a 15-year lease agreement on six car park spaces with private investment company Engenie for the installation and maintenance of two double electric vehicle charging points. The chargers will be high power (rapid) units which can fully charge a vehicle in under thirty minutes. Use of the chargers will be monitored to determine when future investment EV chargers in other parts of the district would be appropriate.

How Hart District Council's planning policy will benefit air pollution

There are no AQMAs in the district for the adopted Hart Local Plan 2032 to take account of. The Local Plan was prepared in accordance with national planning policy and guidance and includes policy NBE11 Pollution. The policy complies with and contributes towards EU limit values and national objectives for pollutants and the cumulative impacts on air quality from individual sites in local areas (in accordance with NPPF paragraph 181⁴, and NPPG paragraph 002 Reference ID: 32-002-20191101⁵). Policy NBE11 Pollution contained in the Hart Local Plan 2032 reads as follows:

Policy NBE11 Pollution

Development will be supported provided:

- a) *it does not give rise to, or would be subject to, unacceptable levels of pollution (including cumulative effects); and*

⁴ <https://www.gov.uk/government/publications/national-planning-policy-framework-2>

⁵ <https://www.gov.uk/guidance/air-quality--3>

- b) it is satisfactorily demonstrated that any adverse impacts of pollution, either arising from the proposed development or impacting on proposed sensitive development or the natural environment will be adequately mitigated or otherwise minimised to an acceptable level.*

Where development is proposed on or near a site that may be impacted by, or may give rise to, pollution, such a proposal must be accompanied by an assessment that investigates the risks associated with the site and the possible impacts on the development, its future users and the natural and built environment. The assessment shall propose adequate mitigation or remediation when required to achieve a safe and acceptable development. Impacts on air quality should be considered in combination with other relevant plans or projects.

The Hart Local Plan 2032 also contains Policy INF3 Transport which requires developments that would generate a significant transport impact to incorporate measures to reduce the need to travel by car and promote sustainable forms of travel, for example through travel plans. For more on travel plans see HCC website at <https://www.hants.gov.uk/transport/developers/travelplans>

Developer contributions towards transport improvements including sustainable transport

The Council secures developer contributions for transport improvements on behalf of Hampshire County Council (see Hart's Community Infrastructure Policy and Hampshire County Council's Transport Contributions Policy). These contributions go towards the implementation of the North Hampshire Transport Strategy, Fleet Town Access Plan and other schemes for which there is an up to date evidence base. These include measures to promote sustainable transport or alleviate traffic congestion. Hampshire County Council control the spending of transport contributions.

Community Infrastructure Levy

Consideration is being given to the implementation of a Community Infrastructure Levy (CIL) following the adoption of the Hart Local Plan 2032. CIL funds can potentially be used to improve sustainable transport in the area helping achieve air quality objectives.

Local Transport Plans and strategies

The following documents are prepared by Hampshire County Council and aim to promote sustainable travel and reduce congestion:

- Hampshire Local Transport Plan 2011-2031
- Hampshire Local Transport Plan – Part B Three Year Implementation Strategy 2014-2017
- Hart District Transport Statement, 2013
- Hart Transport Statement Live Scheme List, December 2013
- Walking Strategy, 2016
- Cycling Strategy, 2015
- Fleet Town Access Plan 2011-2031

2.3. 1 Public Health Outcomes Framework

The Public Health Outcomes Framework (PHOF) is a Public Health England data tool that has been designed to aid in improving the nation's health and improve the health of the poorest communities faster. For more information please visit

<https://fingertips.phe.org.uk/profile/public-health-outcomes-framework>.

The PHOF provides a $PM_{2.5}$ indicator that calculates the fraction of mortality attributable to particulate air pollution within a local authority. Appendix F provides a figure illustrating Hart DC's $PM_{2.5}$ indicator data for 2010 to 2018 with surrounding districts in South East England and England.

3 Air Quality Monitoring Data and Comparison with Air Quality Objectives and National Compliance

3.1 Summary of Monitoring Undertaken

During 2019 Hart District Council measured NO₂ concentrations within the district at 13 diffusion tube sites.

Local authorities in England are not required to report on Benzene, 1,3-Butadiene, Carbon Monoxide and Lead, unless there is a significant local source that needs to be assessed. Hart District Council confirm that no emission sources have been identified that indicate a requirement for any monitoring of these pollutants at this time.

Hart District Council do not currently conduct monitoring of sulphur dioxide (SO₂) or particulate matter (PM₁₀) as assessment of local sources has not identified any risk of exceeding the air quality objectives for these pollutants.

3.1.1 Automatic Monitoring Sites

Hart District Council do not currently conduct continuous automatic monitoring within the district. Continuous monitoring was previously conducted in Blackwater; monitoring at this site was discontinued in March 2014.

3.1.2 Non-Automatic Monitoring Sites

Hart District Council undertook non-automatic (passive) monitoring of NO₂ at 13 sites during 2019. Table A.1 in Appendix A shows the details of the sites.

Maps showing the location of the monitoring sites are provided in Appendix D.

Further details on Quality Assurance/Quality Control (QA/QC) for the diffusion tubes, including bias adjustments and any other adjustments applied (e.g. “annualisation” and/or distance correction), are included in Appendix C.

3.2 Individual Pollutants

The air quality monitoring results presented in this section are, where relevant, adjusted for bias⁶, “annualisation” (where the data capture falls below 75%), and distance correction⁷. Further details on adjustments are provided in Appendix C.

⁶ <https://laqm.defra.gov.uk/bias-adjustment-factors/bias-adjustment.html>

⁷ Fall-off with distance correction criteria is provided in paragraph 7.77, LAQM.TG(16)

3.2.1 Nitrogen Dioxide (NO₂)

Table A.2 in Appendix A compares the adjusted monitored NO₂ annual mean concentrations for the past 5 years with the air quality objective of 40 µg.m⁻³. Note that the concentration data presented in Table A.2 represents the concentration at the location of the monitoring site, following the application of bias adjustment and annualisation, as required (i.e. the values are exclusive of any consideration to fall-off with distance adjustment).

No exceedances of the 40 µg.m⁻³ NO₂ annual mean objective have been reported during the last 5 years. A chart showing the trends at each measurement site over the last 5 years is presented in Figure A.1.

Generally, the concentrations of NO₂ have reduced at all sites over the last 5 years.

For diffusion tubes, the full 2019 dataset of monthly mean values is provided in Appendix B: Full Monthly Diffusion Tube Results for 2019.

4 Planning Applications 2019

A review of current planning applications identified no new or proposed developments where air quality was considered likely to be a concern by Hart District Council.

Details of the 2019 planning applications are provided in Table 4. 1.

Table 4. 1 2019 Planning Applications

REFVAL	DCAPPTYP	ADDRESS	PROPOSAL	DATEDECISS	DTYPNUMBCO	DECSN
18/00503/OUT	OUT	Land Off Holt Lane Hook Hampshire	Erection of a new veterinary practice (including ancillary overnight accommodation)	10-Apr-19	1006	REF
18/01150/FUL	FUL	Lord Wandsworth College The Street Long Sutton Hook RG29 1TB	Erection of a building to provide science facilities with associated car park and landscaping following the demolition of the existing properties known as Westbury and Pembury and the shop/wc	10-Apr-19	1006	PER
18/00334/FUL	FUL	Hawley Park Farm Hawley Road Blackwater Camberley GU17 9EF	Full planning application for the erection of 158 dwellings, vehicular access from Hawley Road and the provision of SANG, public open space, landscaping and associated works - site layout alterations to re-site the blocks of flats from adjacent to Fernhill Lane to elsewhere in the site.	23-Apr-19	1001	REF
18/00916/FUL	FUL	Barn North Of Pickaxe Lane South Warnborough Hook Hampshire	Change of use of the land/barn to accommodate a 596 sqm warehouse with ancillary spaces and external/internal alterations to the barn; construction of 3500sqm fuel farm with 5 tanks and walkways, hardstanding for manoeuvring/parking for fuel lorries and car parking area, lorry wash area, access track to site, highway improvements to Pickaxe Lane and site access; construction of	26-Apr-19	1006	PER

			3m concrete fuel bund wall, attenuation pond and drainage ditch and soft landscaping proposals; all in association with a fuel storage business (Land Use Class Sui-Generis)			
18/01793/REM	REM	Land North Of Netherhouse Copse Hitches Lane Fleet Hampshire	Phase 1 reserved matters application for approval of appearance, landscaping, layout and scale of the community building, parking, NEAP and attenuation area pursuant to 16/01651/OUT Outline application for up to 423 residential dwellings and a community facility. Associated vehicular, pedestrian and cycle access, drainage and landscape works, including provision of public open space and sports pitches. Provision of country park/SANG as an extension to Edenbrook Country Park.	09-May-19	1001	PER
19/00428/REM	REM	Land On The East Side Of Beacon Hill Road Ewshot Farnham Surrey	Application for Approval of Reserved Matters relating to appearance, landscaping, layout and scale pursuant to outline Planning Permission 16/00564/OUT for commercial B1, B2, B8 development comprising 10 industrial units.	03-Jun-19	1003	PER
17/00054/FUL	FUL	Pioneer House Unit 2 Fleetwood Park Barley Way Fleet Hampshire	Create two additional floors of development creating 25 new flats (net increase in 18 units) including external alterations	03-Jun-19	1001	REF
18/00243/FUL	FUL	Land At Gayton House Vicarage Road Yateley GU46 7QS	Construction of a two and a half/three storey building, refurbishment and extension of Gayton House to accommodate 26 sheltered	03-Jun-19	1001	REF

			apartments with communal facilities, access, car parking and landscaping (following demolition of the Village Service Station)			
17/03036/FUL	FUL	Wychwood Carp Farm Farnham Road Odiham Hook RG29 1HS	Retention of change of use of land for commercial storage facilities (Land Use Class B8) and stationing of 154 metal containers (double stacked).	13-Jun-19	1003	REF
19/00429/FUL	FUL	Car Park Adj Meadows Business Park Station Approach Blackwater Camberley Surrey	Construction of a three-storey building to accommodate 11 self-contained units (2 x 1bed, 8 x 2bed, 1 x 3bed) with associated landscaping car parking and refuse storage (following demolition of 32 garages)	20-Jun-19	1001	REF
18/00086/FUL	FUL	67 Fleet Road Fleet Hampshire GU51 3PJ	Construction of two detached buildings (front and rear of the site) to accommodate 10 self-contained units (4 x 1 beds and 6 x 2 beds) with associated car parking, cycle and refuse storage and landscaping (Following demolition of two existing buildings).	10-Jul-19	1001	PER
18/01181/FUL	FUL	Providence House Bartley Way Hook Hampshire	Erection of new 85 bedroom hotel including bar and restaurant	12-Jul-19	1006	PER
18/02150/FUL	FUL	Edenbrook Hitches Lane Fleet Hampshire	Erection of 41 apartments plus associated access, parking, landscape, and other associated works	15-Jul-19	1001	PER
17/01017/FUL	FUL	Winchfield Lodge Old Potbridge Road Winchfield Hook Hampshire	The conversion of the existing lodge into 4no. residential dwellings, with the erection of 4no. residential apartments, 2 semi-detached and 6 x detached dwellings, all with associated car parking and	16-Jul-19	1001	PER

			landscaping (Part retrospective application consisting of minor design amendments to the previously approved application reference 13/00720/MAJOR).			
19/00748/REM	REM	Land At Watery Lane Church Crookham Fleet Hampshire	Reserved Matters application for appearance, landscaping, layout and scale relating to the 1,050sqm D1 floor space for a GP surgery including pharmacy and up to 370sqm A1 retail floor space for a convenience food store, associated to outline planning permission ref: 14/00504/MAJOR.	18-Jul-19	1006	PER
19/00543/FUL	FUL	Albion Yard Hook Road North Warnborough Hook RG29 1EU	Erection of ten dwellings (two 1 bed, four 2 bed, three 5 bed, one 6 bed) four detached cart shed garages and associated site works with plots 1-4 being self-build by applicants	22-Jul-19	1001	REF
18/00281/FUL	FUL	Fleetwood Park Barley Way Fleet Hampshire GU51 2QU	Construction of two additional floors above existing building to create 35 new flats (net increase of 26) including associated changes to the external elevations to lower floors	06-Aug-19	1001	REF
19/00433/FUL	FUL	Land Between Moulsham Lane And Broome Close Yateley Hampshire	Proposed landscaping works and ground profiling associated with the delivery of an approved area of Suitable Alternative Natural Green Space (SANG) (HDC Ref: 14/02281/MAJOR and 17/02793/REM)	07-Aug-19	1006	PER
18/00694/OUT	OUT	Martin Lines Beacon Hill Road Church Crookham Fleet Hampshire	Outline application for redevelopment of the site to provide a mixed use retail and industrial park, comprising up to 4,246 sqm of business floorspace (Class B1/B2/B8 and/or Trade Counter (Sui Generis)), up to 3,782 sqm of retail floorspace (Class	15-Aug-19	1004	PER

			A1) and up to 186 sqm of Class A1 and/or A3 and/or A5 floorspace, including car parking and hard and soft landscaping. Matters of access provided in detail (Additional Drainage Information Uploaded 18.01.2019)			
19/00352/FUL	FUL	A50 Cody Park Ively Road Farnborough Hampshire GU14 0LH	The demolition of Buildings A50 and A57 and the erection of a new data centre, plant, highways works, vehicle access, infrastructure, enclosures, landscaping and other associated works (Response to LLFA Comments received 13.05.2019)	16-Oct-19	1003	PER
19/01426/FUL	FUL	Minley Manor Minley Road Blackwater Camberley GU17 9LP	Temporary change of use of the site (land/buildings) for a three-year period to allow weddings, family celebrations, conferences, exhibitions and other corporate events (Land Use Class D1) with associated access, parking and storage.	25-Oct-19	1006	PER
19/01581/OUT	OUT	Land Off Holt Lane Hook Hampshire	Erection of a new veterinary practice (including ancillary overnight accommodation)	01-Nov-19	1006	REF
19/01036/FUL	FUL	Land Rear Of Holt Farm Holt Lane Hook Hampshire	Change of use of land to Suitable Accessible Natural Greenspace (SANG) with associated works including landscaping, walkways and boundary works.	04-Nov-19	1006	REF
19/00603/FUL	FUL	Burford West Street Odiham Hook Hampshire RG29 1NX	Erection of 15no. dwellings (7 x 2-bedroom, 3 x 3-bedroom and 5 x 4-bedroom) with associated access, landscaping, and parking following the demolition of existing dwelling house	04-Nov-19	1001	WDN
19/01734/FUL	FUL	Lord Wandsworth College The Street	Hybrid Application: Land off Hyde Road - Full planning	11-Nov-19	1001	REF

		Long Sutton Hook RG29 1TB	permission is being sought for the erection of 17 dwellings including 2 x 2 bedroom bungalows, 3 x 2 bedroom houses, 6 x 3 bedroom houses, 4 x 4 bedroom houses and 2 x 5 bedroom houses Land at Long Sutton Primary School - Installation of new Multi Use Games Area (M.U.G.A), visitor/staff/tennis court parking and coach layby Hesters View - Outline planning permission (all matters reserved except for Access) for the erection of 8 Affordable dwellings including 2 x 2 bed and 6 x 3 bed			
19/01766/FUL	FUL	Building 260 And 270 Bartley Wood Business Park Bartley Way Hook Hampshire	Conversion of attic space to create 32 no. apartments (25 x 1 beds and 7 x 2 beds), and associated external alterations including the installation of windows.	18-Nov-19	1001	REF
19/01867/REM	REM	Martin Lines Beacon Hill Road Church Crookham Fleet	Application for Approval of Reserved Matters relating to appearance, landscaping, layout and scale pursuant to outline Planning Permission 18/00694/OUT for the redevelopment of the site to provide a mixed-use retail and industrial park including car parking and hard and soft landscaping (Water Quality Report received 28.10.2019)	21-Nov-19	1004	PER
19/00069/FUL	FUL	Land East Of Hook Road North Warnborough Hook Hampshire	Construction of 21 dwellings (6 x 2 beds, 11x 3 beds, 4x 4 beds), outdoor amenity space and green spaces, junction access, internal road, carports and parking areas.	22-Nov-19	1001	WDN
18/02741/FUL	FUL	Wychwood Carp Farm Farnham Road	Construction of three single storey buildings to accommodate 30	22-Jan-20	1006	PER

		Odiham Hook RG29 1HS	business units for light industrial uses (Land Use Class B1(c)) with associated internal roads, 33 car parking spaces, cycle storage and landscaping works.			
18/01028/FUL	FUL	26 Albert Street Fleet Hampshire GU51 3RL	Redevelopment of 26-28 Albert Street to provide a four-storey building comprising 31 flats (18 x one bedroom, 12 x 2 bedroom and 1 x three bedroom) with associated car parking, refuse and bicycle storage and landscaping.	14-Feb-20	1001	NFA
20/00448/FUL	FUL	Land At Kennels Lane Kennels Lane Farnborough Hampshire	Retention of car park accessible via Bramshot Lane, including proposed installation of cycle stands, fencing and all other ancillary and enabling works (Part retrospective application)	30-Mar-20	1006	PER
18/02321/FUL	FUL	Land To The Rear Of 140-148 Fleet Road Fleet Road Fleet GU51 4BE	Construction of three storey building comprising 14 flats, with associated access, parking, cycle store and landscaping.	30-Apr-20	1001	REF

Appendix A: Monitoring Results

Table A.1 - Details of Non-Automatic Monitoring Sites

Site ID	Site Name	Site Type	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Pollutants Monitored	In AQMA?	Distance to Relevant Exposure (m) ⁽¹⁾	Distance to kerb of nearest road (m) ⁽²⁾	Tube collocated with a Continuous Analyser?	Height (m)
OD1	Clover Leaf, Odiham	Roadside	473651	151085	NO2	No	50 m	4 m	NO	1.5 – 2.0
HW2	The Phoenix, Hartley, Wintney	Kerbside	475884	155818	NO2	No	30 m	2 m	NO	1.5 – 2.0
HO2	Dorchester Arms, Hook	Kerbside	471382	153407	NO2	No	16 m	2 m	NO	1.5 – 2.0
M3EH	Elvetham Heath, Fleet	Kerbside	480290	155899	NO2	No	10 m	15 m (M3)	NO	1.5 – 2.0
M31	M3 Northbound	Roadside	479920	156030	NO2	No	100 m	2 m	NO	1.5 – 2.0
BL1	Vicarage Road, Blackwater	Kerbside	485114	159809	NO2	No	3 m	3 m	NO	1.5 – 2.0
BL (AQ 1)	Blackwater (AQM 1)	Roadside	485251	159813	NO2	No	22 m	4 m	NO	1.5 – 2.0
BL (AQ 2)	Blackwater (AQM 2)	Roadside	485251	159813	NO2	No	22 m	4 m	NO	1.5 – 2.0
HS1	High Street, Fleet	Roadside	480592	153870	NO2	No	22 m	2 m	NO	1.5 – 2.0
HO3	Hook	Kerbside	472469	154254	NO2	No	6 m	1.5 m	NO	2
HW3	Hartley Wintney	Roadside	476684	156850	NO2	No	16 m	1 m	NO	2
FL3	Fleet	Roadside	481161	154632	NO2	No	22 m	1 m	NO	2
YA2	Yateley	Roadside	481723	161015	NO2	No	5 m	1.5 m	NO	2

Notes:

(1) 0m if the monitoring site is at a location of exposure (e.g. installed on the façade of a residential property).

(2) N/A if not applicable.

Table A.2 – Annual Mean NO₂ Monitoring Results

Site ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Site Type	Monitoring Type	Valid Data Capture for Monitoring Period (%) ⁽¹⁾	Valid Data Capture 2019 (%) ⁽²⁾	NO ₂ Annual Mean Concentration (µg/m ³) ^{(3) (4)}				
							2015	2016	2017	2018	2019
OD1	473651	151085	Roadside	Diffusion Tube	100%	100%	15.6	16.9	15.8	16.9	16.1
HW2	475884	155818	Kerbside	Diffusion Tube	100%	100%	31	31	31.9	31.1	28.4
HO2	471382	153407	Kerbside	Diffusion Tube	92%	92%	33.5	32.1	31.9	32.1	26.5
M3EH	480290	155899	Kerbside	Diffusion Tube	75%	75%	22.1	21.4	21.3	23.2	20.8
M31	479920	156030	Roadside	Diffusion Tube	83%	83%	25.2	24.9	26	28	25.7
BL1	485114	159809	Kerbside	Diffusion Tube	100%	100%	29.4	31	30.9	30	28.1
BL (AQ 1)	485251	159813	Roadside	Diffusion Tube	100%	100%	29.9	27	27.7	27.9	23.6
BL (AQ 2)	485251	159813	Roadside	Diffusion Tube	83%	83%	30	27	26.9	27.1	21.4
HS1	480592	153870	Roadside	Diffusion Tube	100%	100%	24.4	25.3	25.6	27.3	24.8
HO3	472469	154254	Kerbside	Diffusion Tube	100%	100%	N/A	N/A	N/A	30.1	29.0
HW3	476684	156850	Roadside	Diffusion Tube	100%	100%	N/A	N/A	N/A	26	24.3
FL3	481161	154632	Roadside	Diffusion Tube	92%	92%	N/A	N/A	N/A	30.3	27.5
YA2	481723	161015	Roadside	Diffusion Tube	92%	92%	N/A	N/A	N/A	27.9	28.5

Diffusion tube data has been bias corrected

Annualisation has been conducted where data capture is <75%

Reported concentrations are those at the location of the monitoring site (bias adjusted and annualised, as required), i.e. prior to any fall-off with distance adjustment

Notes:

Exceedances of the NO₂ annual mean objective of 40µg/m³ are shown in **bold**.

NO₂ annual means exceeding 60µg/m³, indicating a potential exceedance of the NO₂ 1-hour mean objective are shown in **bold and underlined**.

(1) Data capture for the monitoring period, in cases where monitoring was only carried out for part of the year.

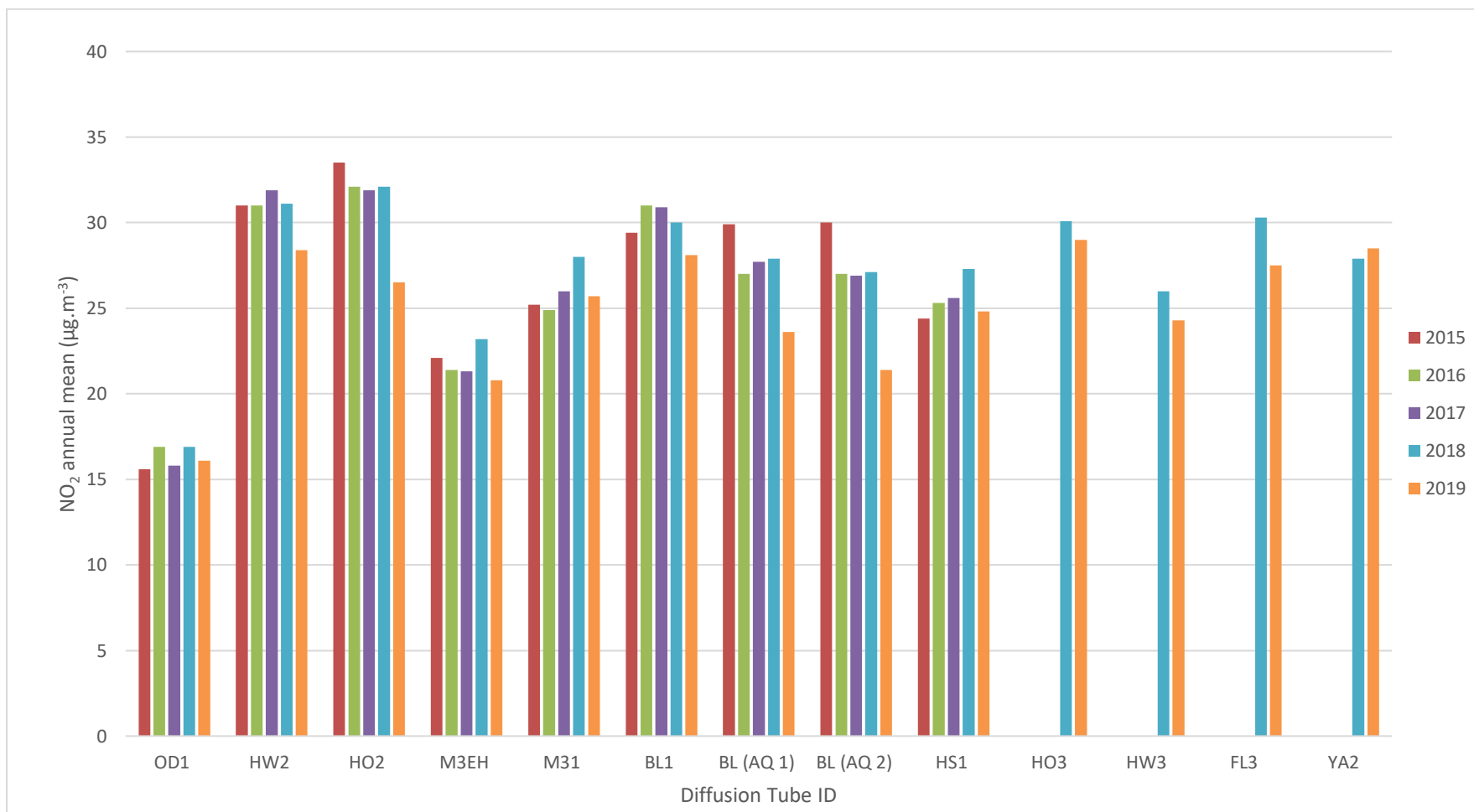
(2) Data capture for the full calendar year (e.g. if monitoring was carried out for 6 months, the maximum data capture for the full calendar year is 50%).

(3) Means for diffusion tubes have been corrected for bias. All means have been “annualised” as per Boxes 7.9 and 7.10 in LAQM.TG16 if valid data capture for the full calendar year is less than 75%. See Appendix C for details.

(4) Concentrations are those at the location of monitoring and not those following any fall-off with distance adjustment.

(N/A) New site as of 2018, no previous data recorded.

Figure A.1 – Trends in Annual Mean NO₂ Concentrations



Appendix B: Full Monthly Diffusion Tube Results for 2019

Table B.1 - NO₂ Monthly Diffusion Tube Results - 2019

Site ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	NO ₂ Mean Concentrations (µg/m ³)															Annual Mean		
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Raw Data	Bias Adjusted (0.93) and Annualised ⁽¹⁾	Distance Corrected to Nearest Exposure ⁽²⁾			
OD1	473651	151085	23.1	23.91	15.89	20.65	14.17	15.08	10.02	9.09	15.99	17.56	27.2	15.37	17.3	16.1	^			
HW2	475884	155818	35.68	44.46	33.7	25.13	24.69	25.58	26.03	24.24	30.63	29.03	36.3	30.78	30.5	28.4	18			
HO2	471382	153407	39.99	40.68	34.73	28.73	26.19	26.71	27.94	25.54	26.45	25.85	10.83		28.5	26.5	19.6			
M3EH	480290	155899	26.12	24.25		25.8	20.72	18.88			18.88	19.91	29.75	17.37	22.4	20.8	19.6			
M31	479920	156030	29.22	37.29	25.33		23.36	27.14	25.46	26.27	26.06	27.95	27.74		27.6	25.7	^			
BL1	485114	159809	38.47	41.22	28.38	26.63	22.87	23.45	25.04	23.43	28.73	30.7	44.72	29.05	30.2	28.1	25.8			
BL (AQ 1)	485251	159813	31.61	33.11	31.61	26.62	22.19	17.71	20.84	18.05	24.67	21.54	33.82	23.22	25.4	23.6	19.1			
BL (AQ 2)	485251	159813			28.85	22.23	20.29	20.58	20.19	18.76	21.85	22.15	31.35	23.97	23.0	21.4	18.1			
HS1	480592	153870	34.3	35.6	28.32	31.42	24.24	25.24	19.98	14.98	22.07	24.65	35.78	23.65	26.7	24.8	17.4			
HO3	472469	154254	36.29	35.6	34.73	30.38	29.54	28.47	26.91	22.08	31.78	30.92	44.52	22.88	31.2	29.0	23.2			
HW3	476684	156850	30.09	39.67	23.85	24.7	21.79	23.27	22.29	23.8	24.59	21.06	33.43	24.95	26.1	24.3	17.6			
FL3	481161	154632	34.46	38.47	27.52	28.09	26.8	26.81		22.3	27.87	30.16	37.48	25.67	29.6	27.5	18.2			
YA2	481723	161015	40.52	42.45	33.95	27.22	25.65	28.57	25.14	22.62		28.18	36.61	25.72	30.6	28.5	23			

Local bias adjustment factor used

- ☒ National bias adjustment factor used
- ☒ Annualisation has been conducted where data capture is <75%
- ☒ Where applicable, data has been distance corrected for relevant exposure in the final column

Notes:

Exceedances of the NO₂ annual mean objective of 40µg/m³ are shown in **bold**.

NO₂ annual means exceeding 60µg/m³, indicating a potential exceedance of the NO₂ 1-hour mean objective are shown in **bold and underlined**.

(1) See Appendix C for details on bias adjustment and annualisation.

(2) Distance corrected to nearest relevant public exposure.

(^) Unable to distance correct due to > 50 km

Appendix C: Supporting Technical Information / Air Quality Monitoring Data QA/QC

Bias adjustment factory and laboratory QA/QC

The diffusion tubes deployed by Hart District Council are supplied and analysed by Gradko using a preparation mixture of 20% triethanolamine (TEA) in water. The bias adjustment factor of 0.93 reported in the national database of co-location studies⁸, conducted using diffusion tubes prepared and analysed by Gradko during 2019, has been used to adjust the diffusion tube results.

Figure C. 1 The diffusion tube national adjustment factor spreadsheet (Version 03/20)

National Diffusion Tube Bias Adjustment Factor Spreadsheet							Spreadsheet Version Number: 03/20			
Follow the steps below in the correct order to show the results of relevant co-location studies							This spreadsheet will be updated at the end of June 2020			
Data only apply to tubes exposed monthly and are not suitable for correcting individual short-term monitoring periods							LAQM Helpdesk Website			
Whenever presenting adjusted data, you should state the adjustment factor used and the version of the spreadsheet							The LAQM Helpdesk is operated on behalf of Defra and the Devolved Administrations by Bureau Veritas, in conjunction with contract partners AECOM and the National Physical Laboratory.			
This spreadsheet will be updated every few months; the factors may therefore be subject to change. This should not discourage their immediate use.							Spreadsheet maintained by the National Physical Laboratory. Original compiled by Air Quality Consultants Ltd.			
Step 1:		Step 2:		Step 3:		Step 4:				
Select the Laboratory that Analyzes Your Tubes from the Drop-Down List		Select a Preparation Method from the Drop-Down List		Select a Year from the Drop-Down List		Where there is only one study for a chosen combination, you should use the adjustment factor shown with caution. Where there is more than one study , use the overall factor* shown in blue at the foot of the final column.				
If a laboratory is not shown, we have no data for this laboratory.		If a preparation method is not shown, we have no data for this method at this laboratory.		If a year is not shown, we have no data.		If you have your own co-location study then see footnote ⁸ . If uncertain what to do then contact the Local Air Quality Management Helpdesk at LAQMHelpdesk@uk.bureauveritas.com or 0800 0327953				
Analysed By ⁸	Method	Year	Site Type	Local Authority	Length of Study (months)	Diffusion Tube Mean Conc. (Dm) (µg/m ³)	Automatic Monitor Mean Conc. (Cm) (µg/m ³)	Bias (B)	Tube Precision ⁹	Bias Adjustment Factor (A) (Cm/Dm)
Gradko	20% TEA in water	2019	R	Blackburn with darwen Borough Council	10	29	21	36.3%	G	0.73
Gradko	20% TEA in water	2019	R	Cheshire West and Chester	12	39	38	2.0%	G	0.98
Gradko	20% TEA in water	2019	R	Cheshire West and Chester	11	34	34	-2.1%	G	1.02
Gradko	20% TEA in water	2019	R	Gedling Borough Council	12	32	30	7.3%	G	0.93
Gradko	20% TEA in water	2019	R	NOTTINGHAM CITY COUNCIL	10	37	40	-7.0%	G	1.07
Gradko	20% TEA in water	2019	R	Bedford Borough Council	11	29	29	-1.0%	G	1.01
Gradko	20% TEA in water	2019	R	Bedford Borough Council	12	37	32	13.0%	G	0.89
Gradko	20% TEA in water	2019	R	Gateshead Council	12	30	25	18.1%	G	0.85
Gradko	20% TEA in water	2019	R	Gateshead Council	10	32	34	-7.2%	G	1.08
Gradko	20% TEA in water	2019	R	Gateshead Council	12	34	27	23.7%	P	0.81
Gradko	20% TEA in water	2019	R	Gateshead Council	11	40	44	-10.5%	G	1.12
Gradko	20% TEA in water	2019	KS	Manglebone Road Intercomparison	12	85	65	30.1%	G	0.77
Gradko	20% TEA in water	2019	R	Borough Council of King's Lynn and West Nor	9	27	21	28.4%	G	0.78
Gradko	20% TEA in water	2019	R	Lancaster City Council	13	40	34	16.4%	G	0.86
Gradko	20% TEA in water	2019	R	Lancaster City Council	12	31	31	1.6%	G	0.98
Gradko	20% TEA in water	2019	R	Monmouthshire County Council	12	39	39	1.3%	G	0.99
Gradko	20% TEA in water	2019	UC	Belfast City Council	10	29	24	21.8%	G	0.82
Gradko	20% TEA in water	2019	R	Dudley MBC	12	33	32	4.5%	G	0.96
Gradko	20% TEA in water	2019	R	Dudley MBC	12	44	42	3.9%	G	0.96
Gradko	20% TEA in water	2019	UB	Dudley MBC	12	23	19	19.8%	G	0.83
Gradko	20% TEA in water	2019	UB	Eastleigh Borough Council	12	24	26	-7.1%	G	1.08
Gradko	20% TEA in water	2019	R	Gateshead Council	12	34	27	23.7%	P	0.81
Gradko	20% TEA in water	2019	R	Gateshead Council	11	40	44	-10.5%	G	1.12
Gradko	20% TEA in water	2019	R	Gateshead Council	10	32	34	-7.2%	G	1.08
Gradko	20% TEA in water	2019	R	Gateshead Council	12	30	25	18.1%	G	0.85
Gradko	20% TEA in water	2019	R	Thurrock Borough Council	12	29	24	21.6%	G	0.82
Gradko	20% TEA in water	2019	R	Brighton & Hove City Council	11	45	50	-9.3%	G	1.10
Gradko	20% TEA in water	2019		Overall Factor* (27 studies)					Use	0.93

Gradko have participated in HSL and LGC Standards AIR-PT scheme, which is a UKAS accredited, independent proficiency testing scheme comparing laboratories undertaking the analysis of air quality monitoring (<https://laqm.defra.gov.uk/diffusion-tubes/ga-qc-framework.html>).

⁸ National Diffusion Tube Bias Adjustment Factor Spreadsheet Version 03/20 (available from <https://laqm.defra.gov.uk/bias-adjustment-factors/national-bias.html>)

Figure C. 2 – The NO₂ fall off with distance from roads calculator (Version 4.2)

Site Name/ID	Distance (m)		NO ₂ Annual Mean Concentration (µg/m ³)			Comment
	Monitoring Site to Kerb	Receptor to Kerb	Background	Monitored at Site	Predicted at Receptor	
OD1	4.0		10.7	16.1	-	More than 50 m
HW2	2.0	32.0	12.4	28.4	18.0	Warning: your receptor is more than 20m further from the kerb than your monitor - treat result with caution.
HO2	2.0	18.0	13.1	26.5	19.6	
M3EH	15.0	25.0	15.3	20.8	19.6	Warning: your receptor is more than 20m further from the kerb than your monitor - treat result with caution. Warning: your monitor is more than 10m further from the kerb than your receptor - treat result with caution.

Hart District Council


M31	2.0		12.0	25.7	-	More than 50 m
BL1	3.0	6.0	15.0	28.1	25.8	
BL (AQ 1)	4.0	26.0	15.0	23.6	19.1	Warning: your receptor is more than 20m further from the kerb than your monitor - treat result with caution.
BL (AQ 2)	4.0	26.0	15.0	21.4	18.1	Warning: your receptor is more than 20m further from the kerb than your monitor - treat result with caution.
HS1	2.0	24.0	12.1	24.8	17.4	Warning: your receptor is more than 20m further from the kerb than your monitor - treat result with caution.
HO3	1.5	7.5	12.7	29.0	23.2	
HW3	1.0	17.0	12.6	24.3	17.6	

FL3	1.0	23.0	12.8	27.5	18.2	Warning: your receptor is more than 20m further from the kerb than your monitor - treat result with caution.
YA2	1.5	6.5	11.4	28.5	23.0	

Diffusion tube precision was assessed during 2019 at the Blackwater site where duplicate tubes were sited. The calculated tube precision is presented in Figure C. 3. All months, except January and February, in 2019 were classified as having good precision.

Figure C. 3 - Precision of duplicate diffusion tubes

Adjustment of DUPLICATE or TRIPLICATE Tubes


AEA Energy & Environment
From the AEA group

Diffusion Tubes Measurements										Data Quality Check
Period	Start Date dd/mm/yyyy	End Date dd/mm/yyyy	Tube 1 μgm^{-3}	Tube 2 μgm^{-3}	Tube 3 μgm^{-3}	Triplicate Average	Standard Deviation	CV	95% CI mean	Diffusion Tubes Precision Check
1		Jan	31.61							
2		Feb	33.11							
3		Mar	31.61	28.85		30.2	1.95	6.46	17.53	Good
4		Apr	26.62	22.23		24.4	3.10	12.71	27.89	Good
5		May	22.19	20.29		21.2	1.34	6.33	12.07	Good
6		Jun	17.71	20.58		19.1	2.03	10.60	18.23	Good
7		Jul	20.84	20.19		20.5	0.46	2.24	4.13	Good
8		Aug	18.05	18.76		18.4	0.50	2.73	4.51	Good
9		Sept	24.67	21.85		23.3	1.99	8.57	17.92	Good
10		Oct	21.54	22.15		21.8	0.43	1.97	3.88	Good
11		Nov	33.82	31.35		32.6	1.75	5.36	15.69	Good
12		Dec	23.22	23.97		23.6	0.53	2.25	4.76	Good
13										

It is necessary to have results for at least two tubes in order to calculate the precision of the measurements

Site Name/ ID:

Jaume Targa, for AEA
Version 04 - February 2011

Adjusted measurement (95% confidence level)
Without periods with CV larger than 20%

Bias calculated using 0 periods of data

Tube Precision:
Bias factor A:
Bias B:

Information about tubes to be adjusted

Diffusion Tube average: 24 μgm^{-3}
Average Precision (CV): 6
Adjusted Tube average: μgm^{-3}

Adjusted measurement (95% confidence level)
with all data

Bias calculated using 0 periods of data

Tube Precision:
Bias factor A:
Bias B:

Information about tubes to be adjusted

Diffusion Tube average: 24 μgm^{-3}
Average Precision (CV): 6
Adjusted Tube average: μgm^{-3}

Appendix D: Map(s) of Monitoring Locations and AQMAs

Figure D. 1 – Diffusion tube location – Clover Leaf, Odiham (OD1)

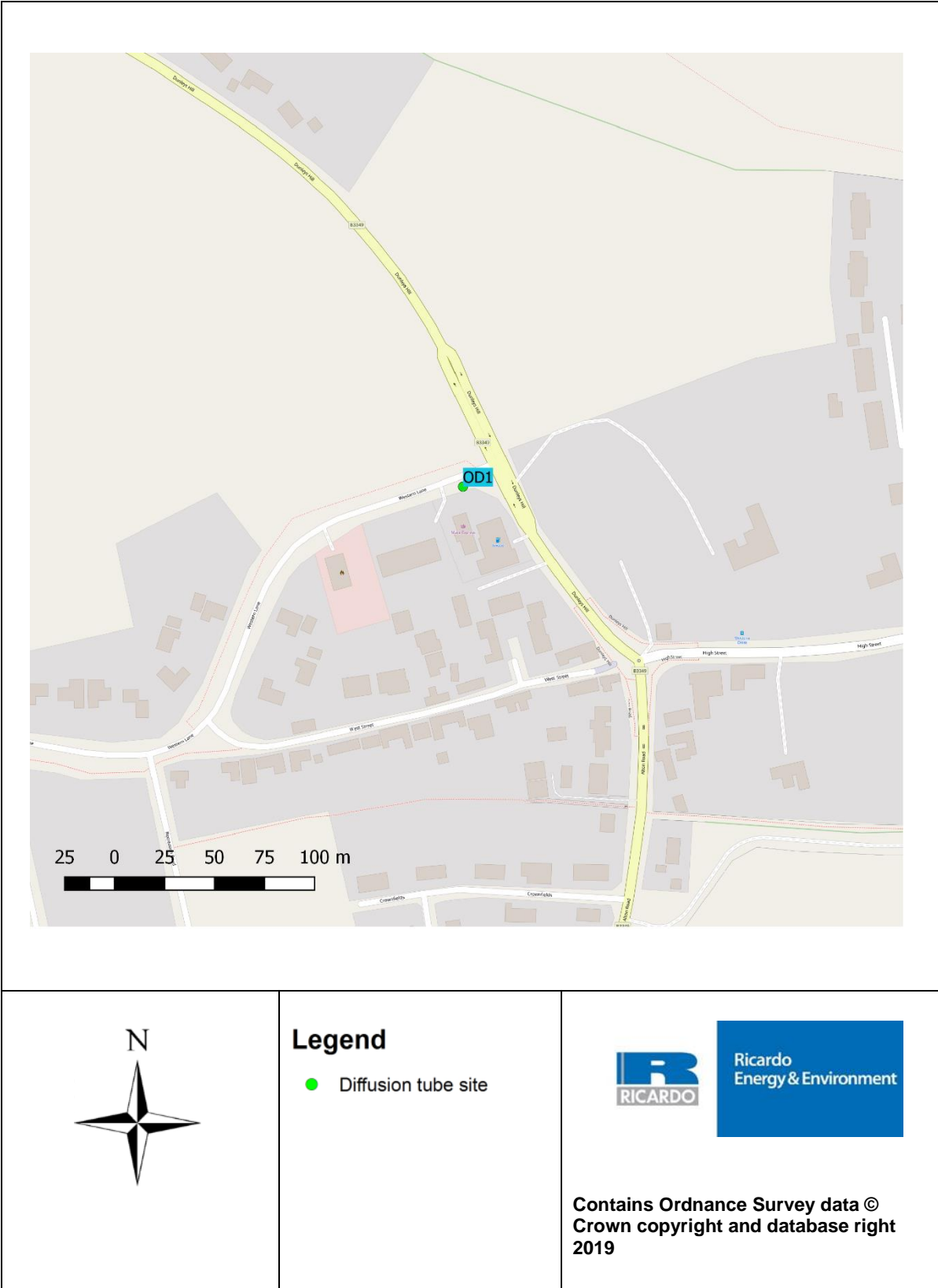


Figure D. 2 – Diffusion tube location – The Phoenix, H Wintney (HW2)

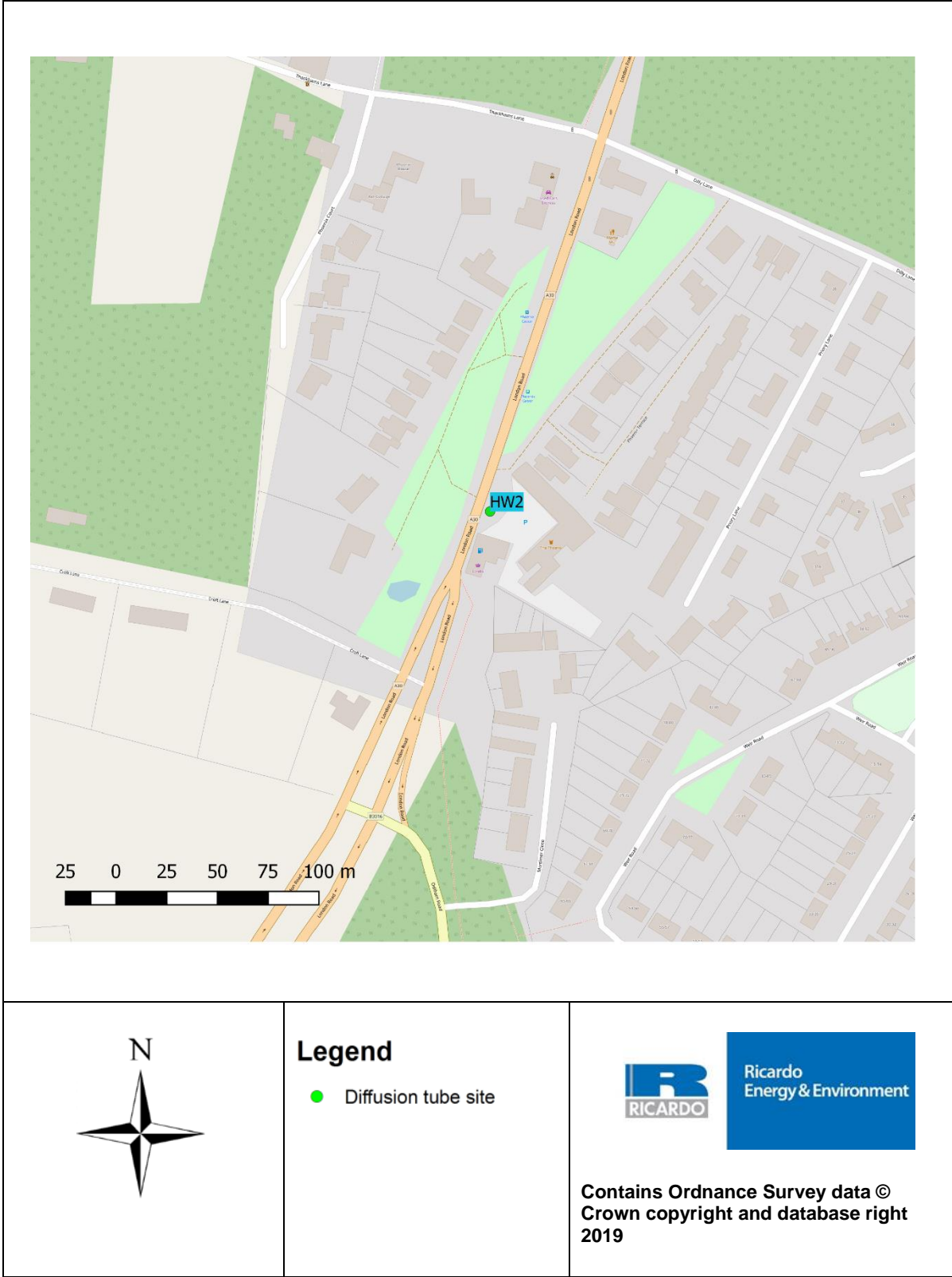


Figure D. 3 – Diffusion tube location – Dorchester Arms, Hook (HO2)

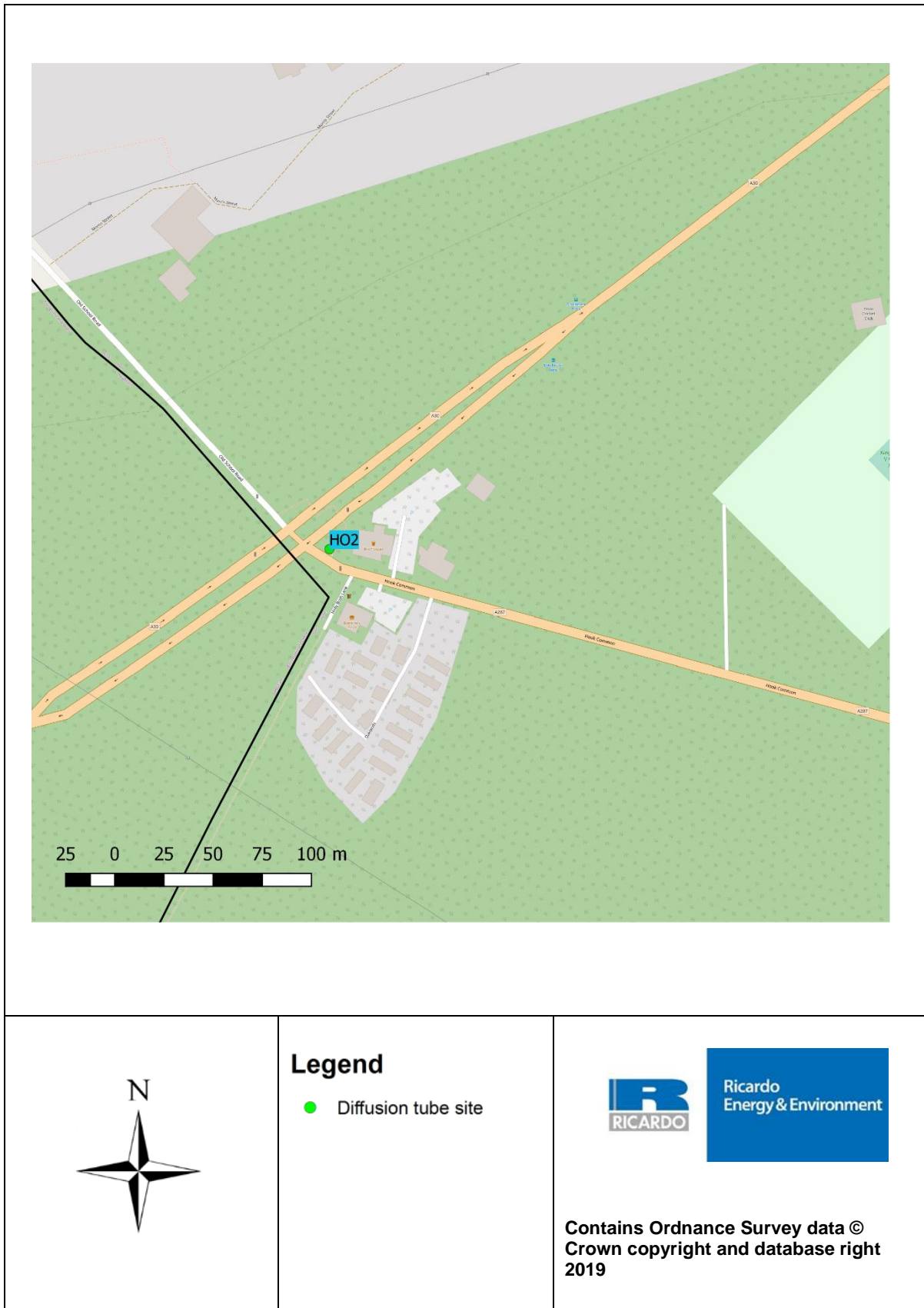


Figure D. 5 – Diffusion tube location – M3 Northbound (M31)

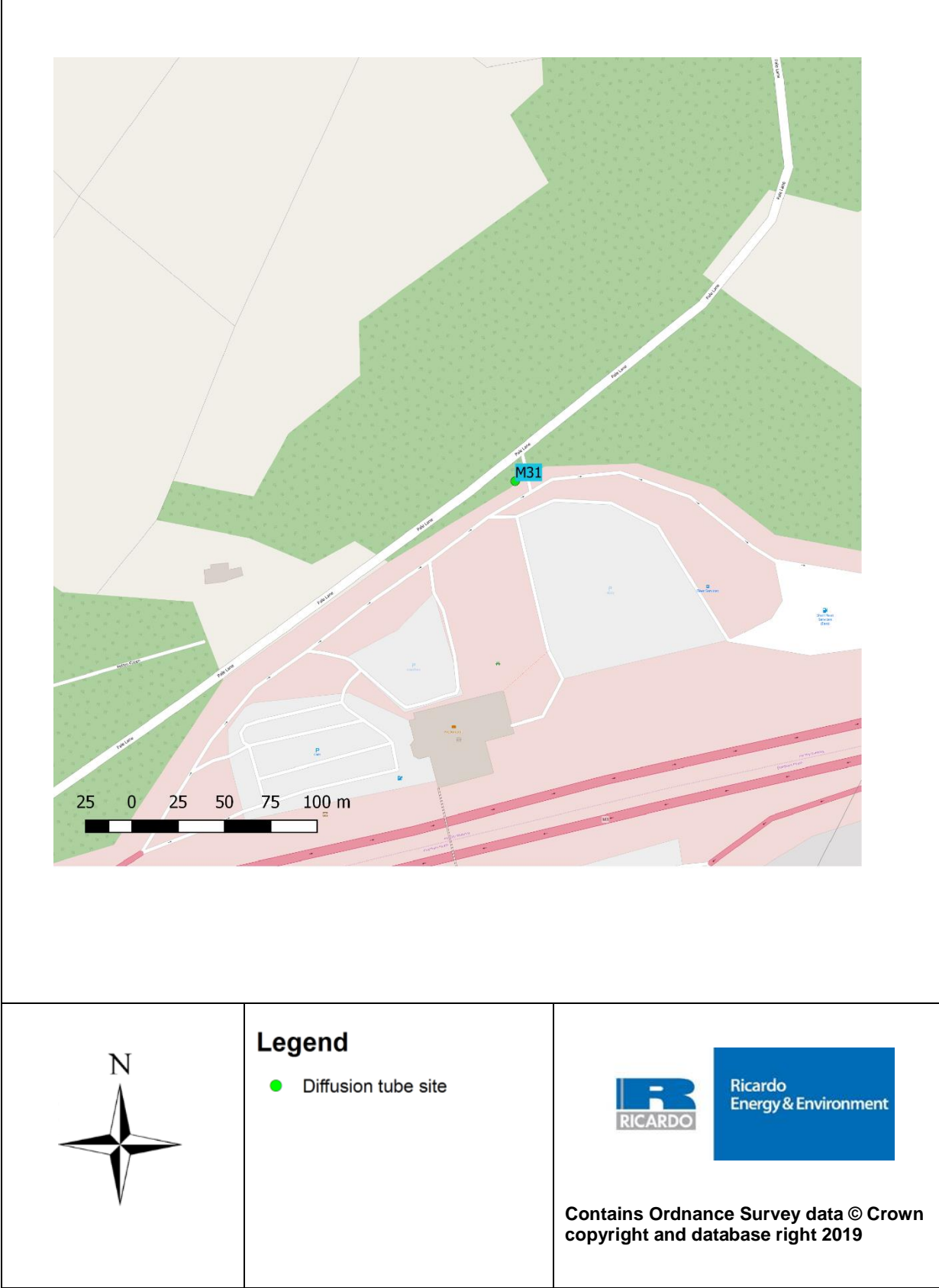


Figure D. 6 – Diffusion tube location – Vicarage Road, Blackwater (BL1)

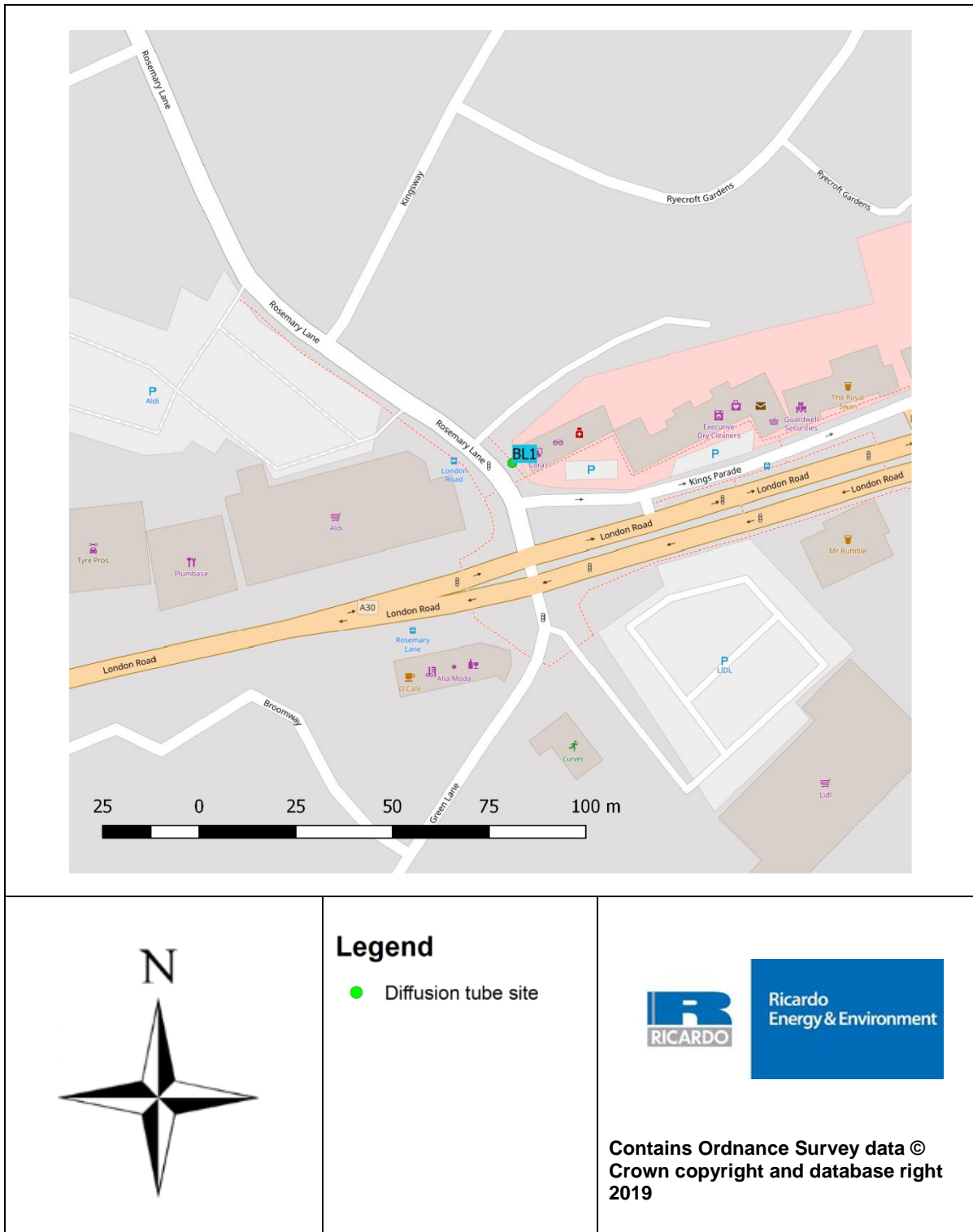


Figure D. 7 – Diffusion tube location – Blackwater (AQ 1) and (AQ2)

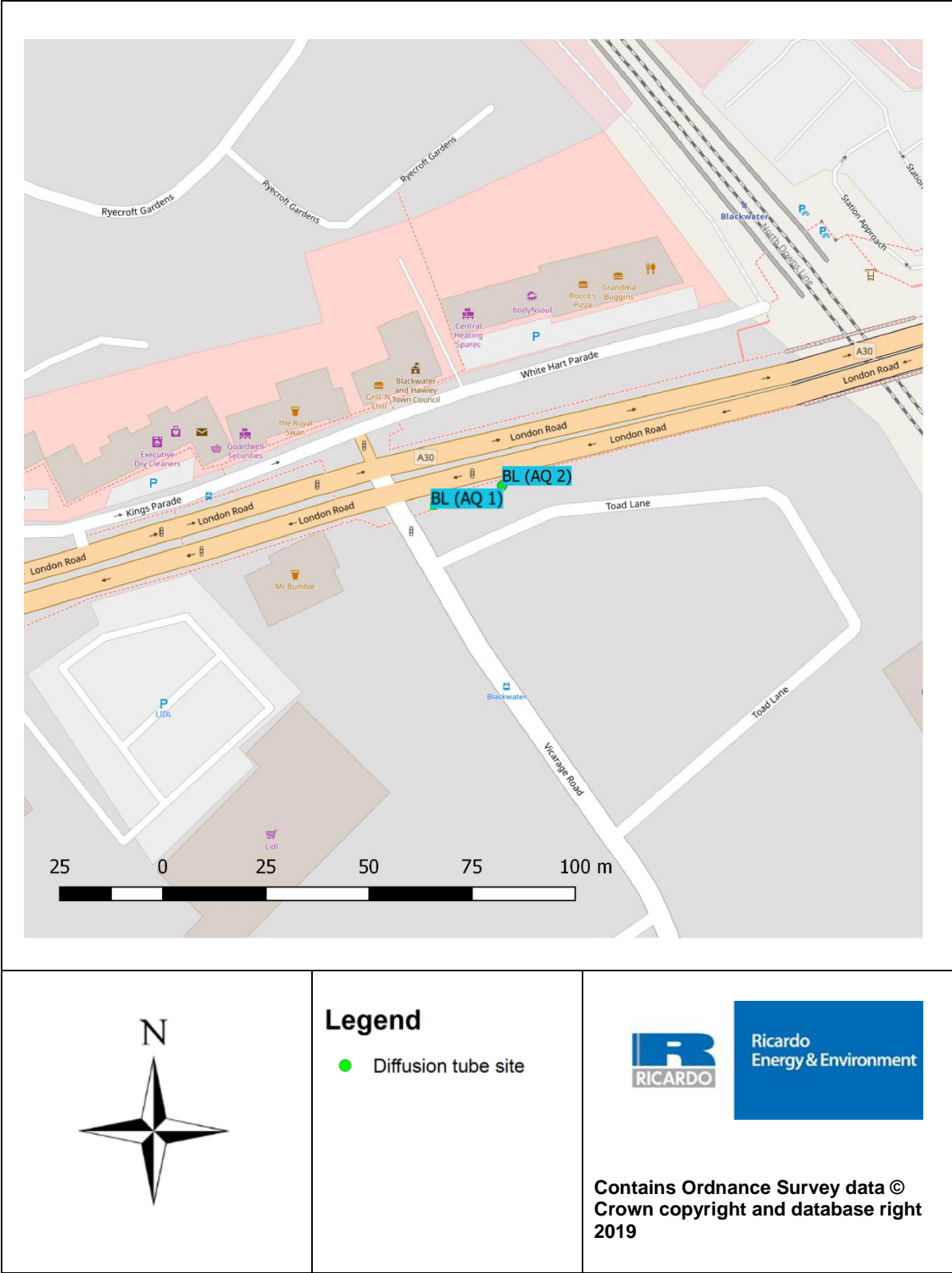


Figure D. 8 – Diffusion tube location – High Street, Fleet (HS1)

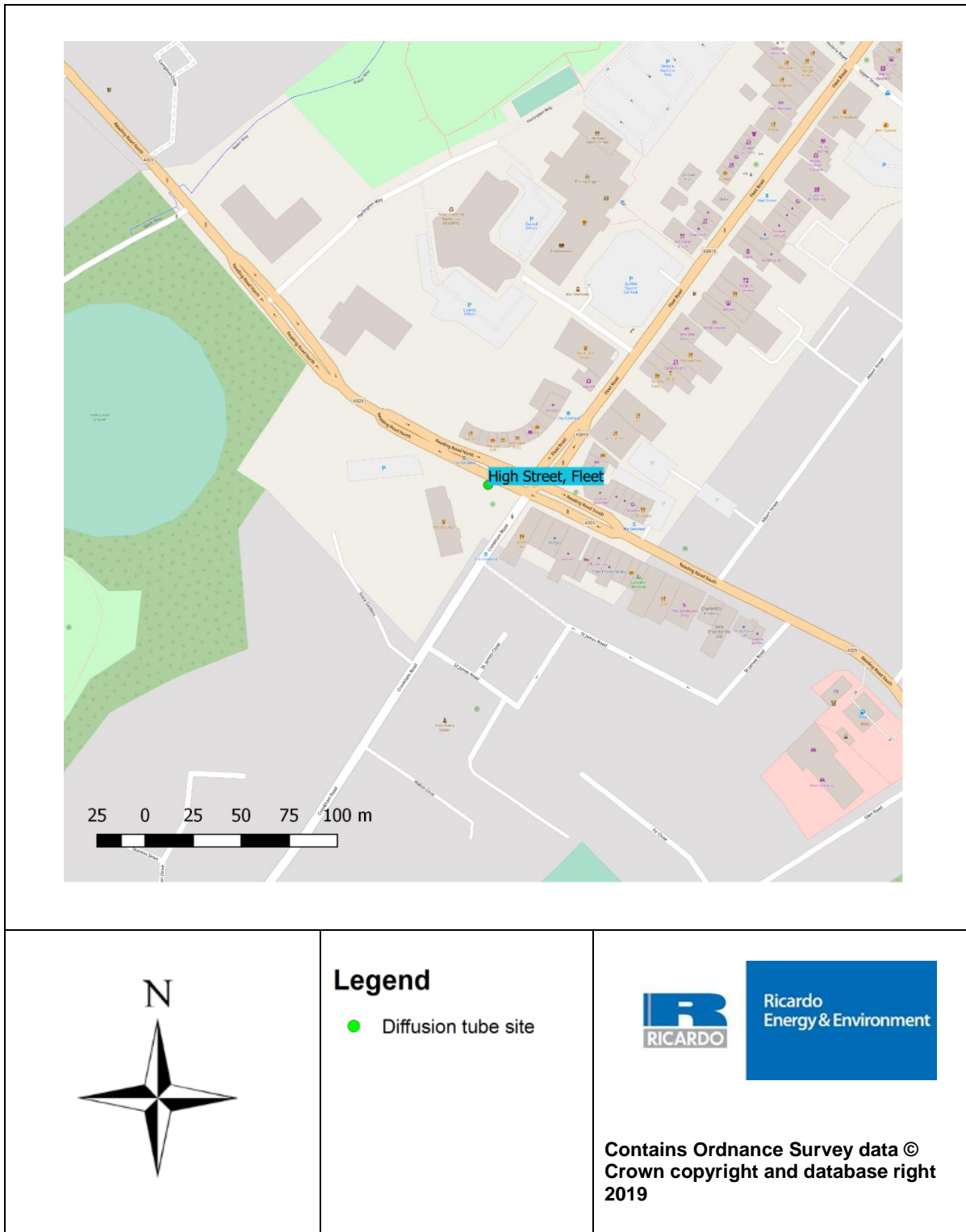


Figure D. 9 – Diffusion tube location – Hook (HO3)

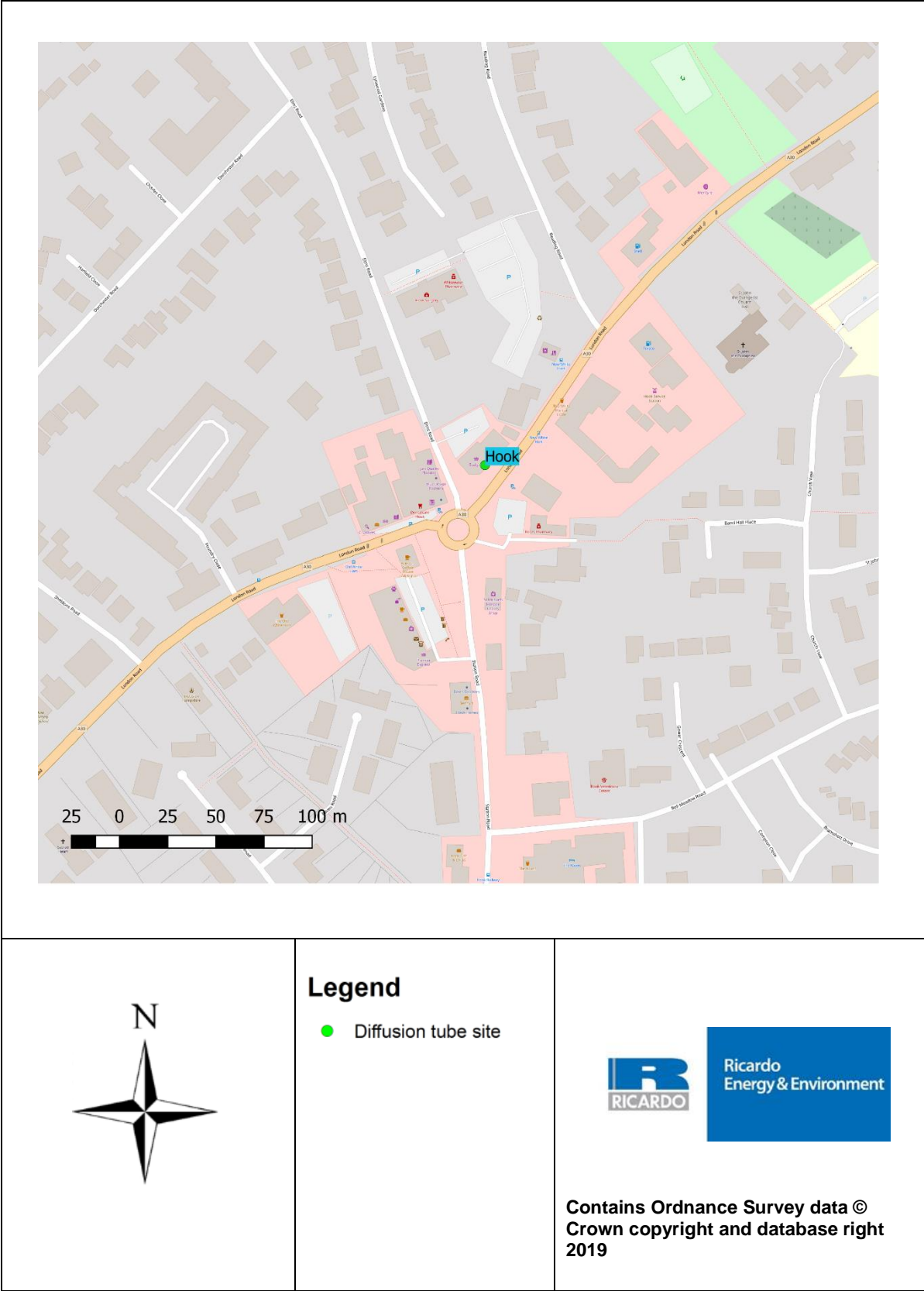


Figure D. 10 – Diffusion tube location – Hartley Wintney (HW3)

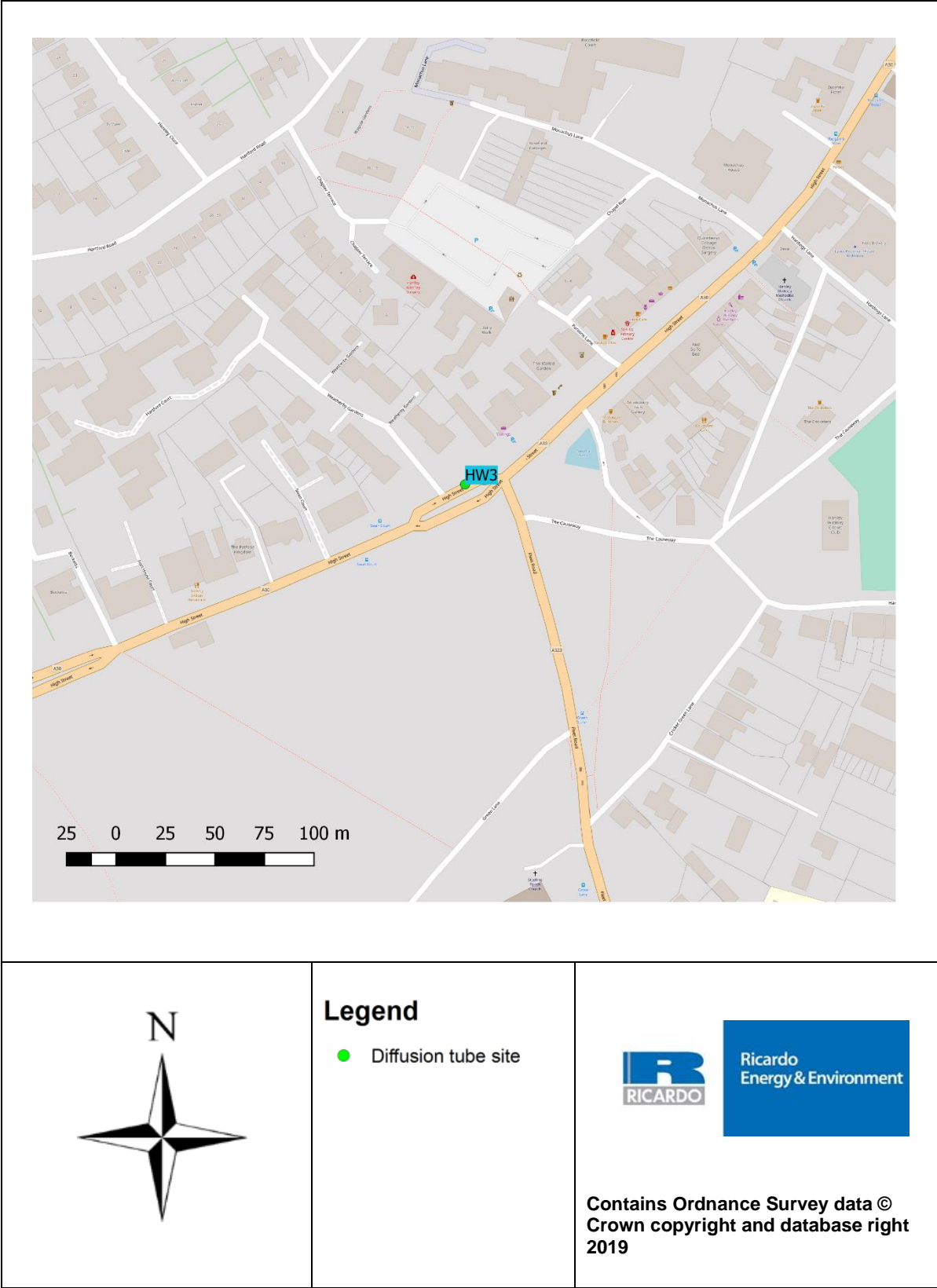


Figure D. 11 – Diffusion tube location – Fleet (FL3)

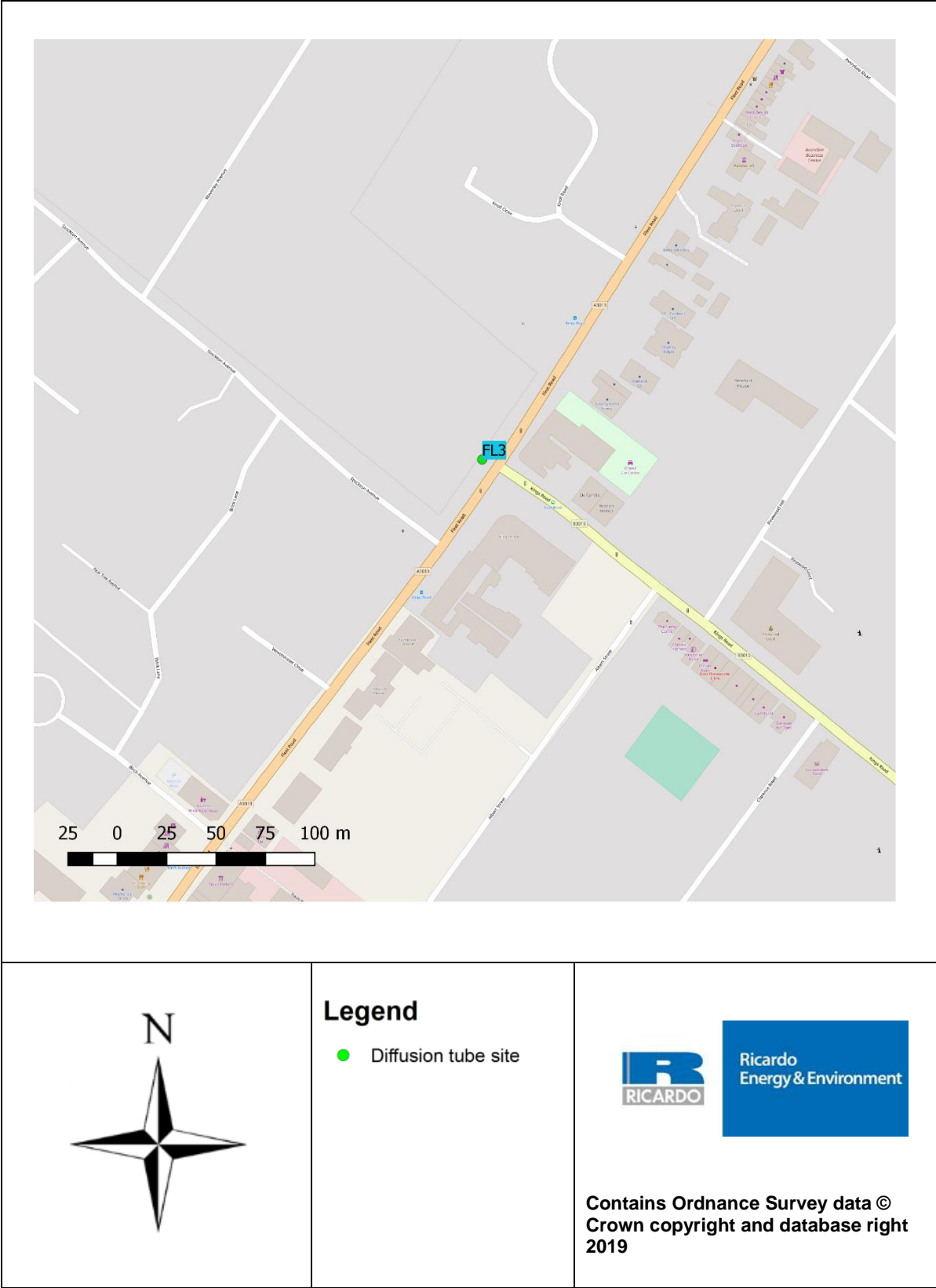


Figure D. 12 – Diffusion tube location – Yateley (YA2)

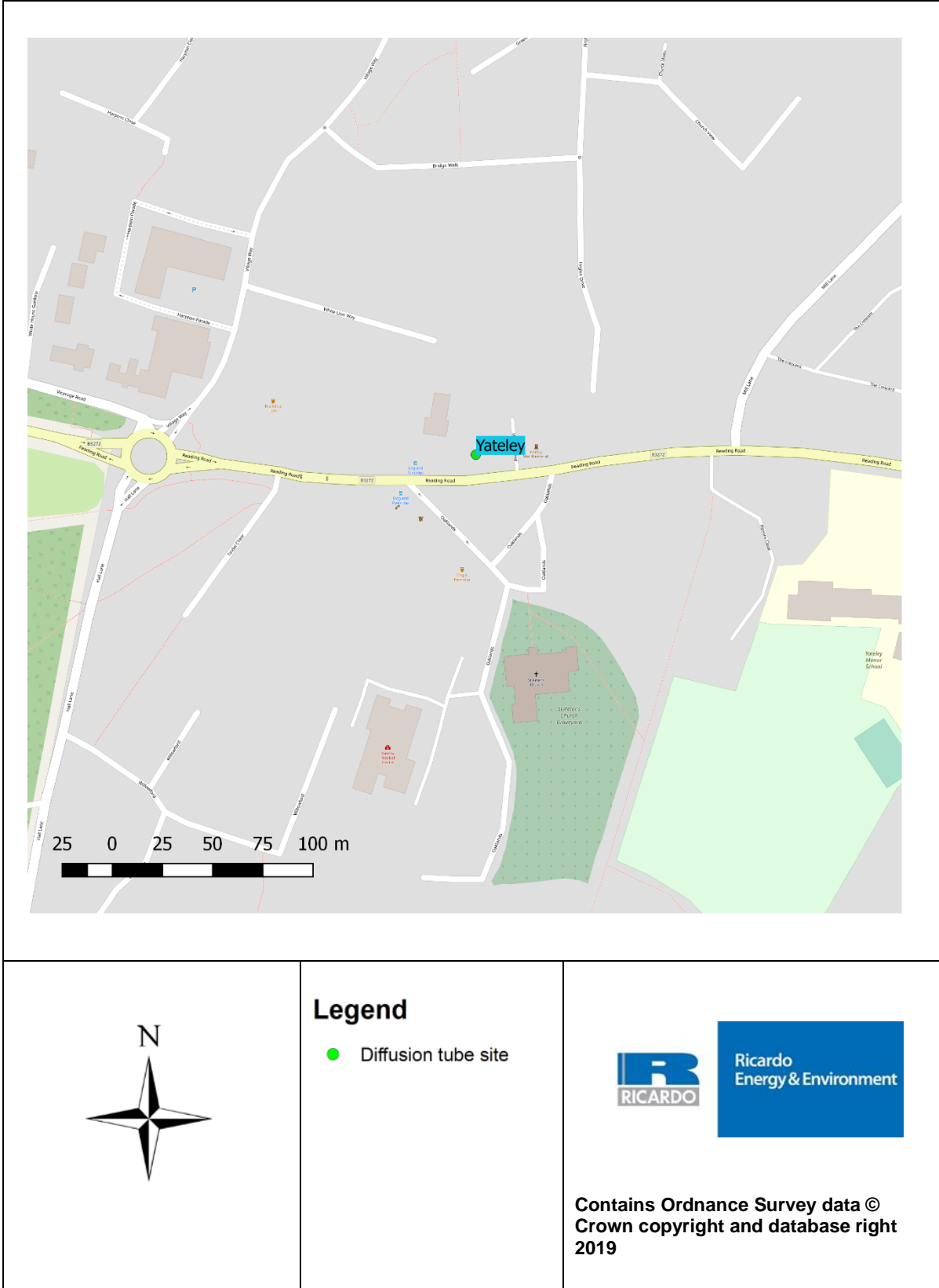
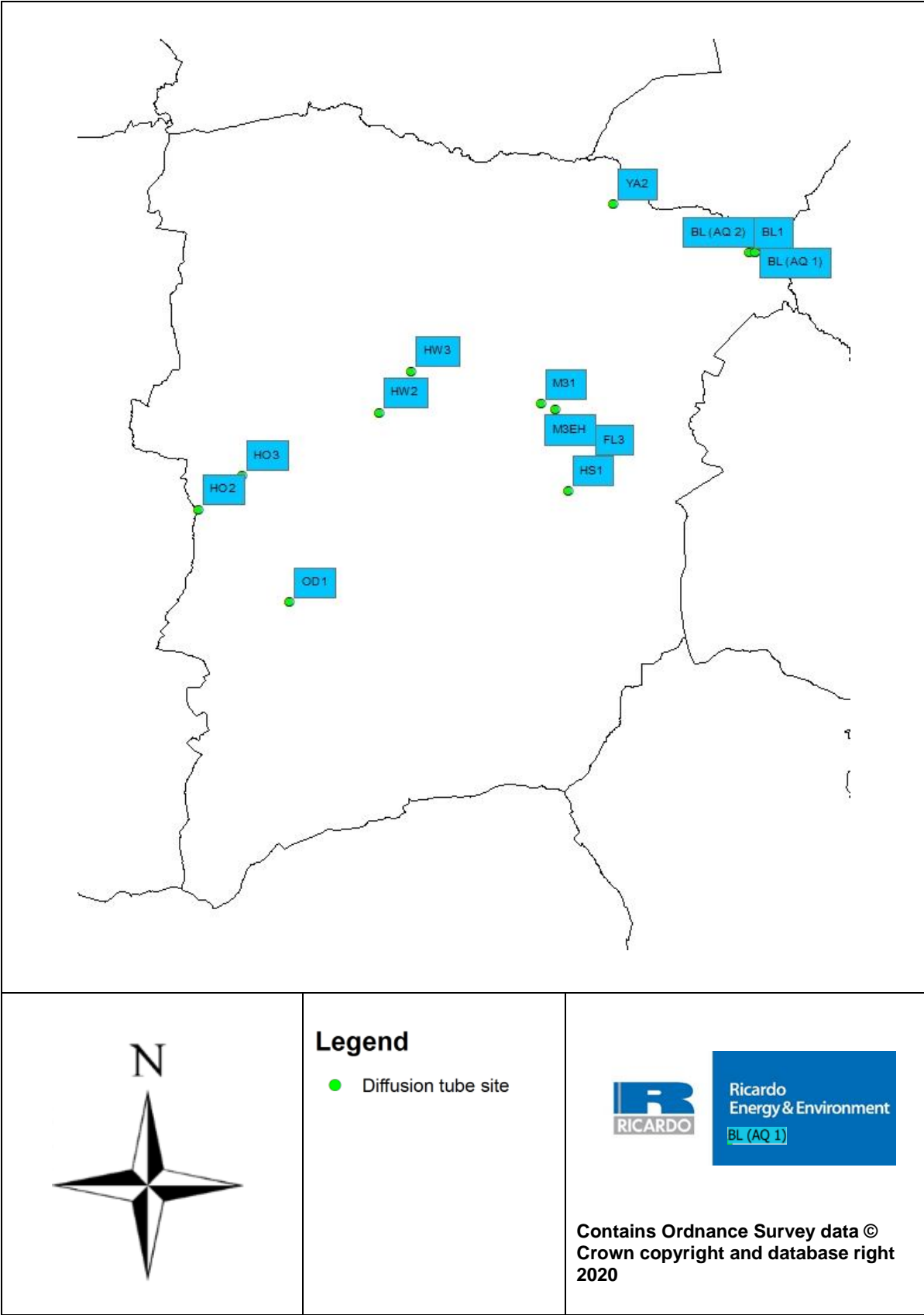


Figure D. 13 – Diffusion tube locations



Appendix E: Summary of Air Quality Objectives in England

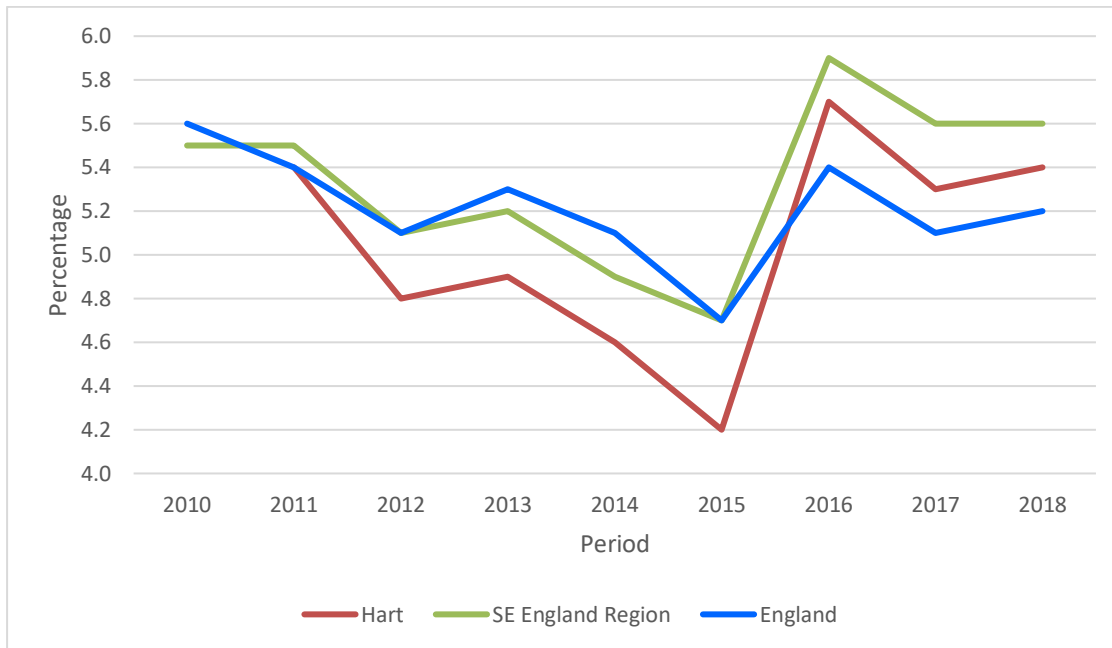
Table E.1 – Air Quality Objectives in England

Pollutant	Air Quality Objective ⁹	
	Concentration	Measured as
Nitrogen Dioxide (NO ₂)	200 µg.m ⁻³ not to be exceeded more than 18 times a year	1-hour mean
	40 µg.m ⁻³	Annual mean
Particulate Matter (PM ₁₀)	50 µg.m ⁻³ , not to be exceeded more than 35 times a year	24-hour mean
	40 µg.m ⁻³	Annual mean
Sulphur Dioxide (SO ₂)	350 µg.m ⁻³ , not to be exceeded more than 24 times a year	1-hour mean
	125 µg.m ⁻³ , not to be exceeded more than 3 times a year	24-hour mean
	266 µg.m ⁻³ , not to be exceeded more than 35 times a year	15-minute mean

⁹ The units are in microgrammes of pollutant per cubic metre of air (µg.m³).

Appendix F Public Health Outcomes Framework

Figure F. 1 Hart DC's PM_{2.5} indicator data for period 2010 to 2018¹⁰



¹⁰ Available at <https://fingertips.phe.org.uk/profile/public-health-outcomes-framework/data#page/4/qid/1000043/pat/6/par/E12000008/ati/101/are/E07000089/iid/30101/age/230/sex/4/cid/4>

Glossary of Terms

Abbreviation	Description
AQAP	Air Quality Action Plan - A detailed description of measures, outcomes, achievement dates and implementation methods, showing how the local authority intends to achieve air quality limit values'
AQMA	Air Quality Management Area – An area where air pollutant concentrations exceed / are likely to exceed the relevant air quality objectives. AQMAs are declared for specific pollutants and objectives
ASR	Air quality Annual Status Report
Defra	Department for Environment, Food and Rural Affairs
DMRB	Design Manual for Roads and Bridges – Air quality screening tool produced by Highways England
EU	European Union
FDMS	Filter Dynamics Measurement System
LAQM	Local Air Quality Management
NO ₂	Nitrogen Dioxide
NO _x	Nitrogen Oxides
PM ₁₀	Airborne particulate matter with an aerodynamic diameter of 10µm (micrometres or microns) or less
PM _{2.5}	Airborne particulate matter with an aerodynamic diameter of 2.5µm or less
QA/QC	Quality Assurance and Quality Control
SO ₂	Sulphur Dioxide

References

Burnright, June 2019

LAQM TG(16) Part IV of the Environment Act 1995 Environment (Northern Ireland) Order 2002 Part III

Hart District Local Plan: Core Strategy; Sustainability Appraisal Scoping Report, April 2014, available at

https://www.hart.gov.uk/sites/default/files/4_The_Council/Policies_and_published_documents/Planning_policy/SA%20Scoping%20Report.pdf

Hart Local Plan, Strategy and Sites 2032, April 2020, available at

https://www.hart.gov.uk/sites/default/files/4_The_Council/Policies_and_published_documents/Planning_policy/Local_Plan/Hart%20LPS%26S%20pending%20final%20design.pdf

Public Health England, Health Matters: air pollution Guidance, June 2019