



South East Strategic Reservoir Option
Preliminary Environmental Information Report

Appendix 13.2 - Air quality baseline data

Date: October 2025

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1 Appendix 13.2: Air quality baseline

1.1 Introduction

- 1.1.1 This document provides supplementary baseline information relevant to the air quality baseline for the Project. It forms an appendix to Chapter 13: Air quality.

1.2 Sources of air pollution

Industrial processes

- 1.2.1 There are six Part A processes with emissions to air listed on the Environment Agency website (EA, 2025) within 2km of the Project, as shown in Table 1.1.

Table 1.1: Part A processes within 2km of the draft Order limits

Site name	Permit Number	Process	Local Authority
ARL 028 Limited	EPR/KP3403BX	New medium combustion plant Tranche B specified generators	Vale of White Horse District Council
Aptuit (Oxford) Limited	EPR/MP3632FW EPR/MP3832FY	Producing pharmaceuticals using chemical/ biological processes	Vale of White Horse District Council
Amazon Data Services UK Limited	EPR/LP3005BL	Combustion; any fuel =>50MW	Vale of White Horse District Council
RWE Generation UK Plc	EPR/YP3930LZ	Medium combustion plant Combustion; any fuel =>50MW	Vale of White Horse District Council
Oxfordshire County Council, Drayton Depot	EPR/QP3899ED	Temporary storage of hazardous waste Disposal of recovery of hazardous waste	Vale of White Horse District Council

1.3 Monitoring results

Automatic monitoring

- 1.3.1 There is one automatic monitoring station within the study area. The details for this are shown in Table 1.2. The results for recent years are shown in Table 1.3. The location of the monitoring station is shown on Figure 13.2: Air quality monitoring locations and Air Quality Management Areas.

Table 1.2: Details of automatic monitoring sites

Site Name	Site ID	X OS Grid Ref	Y OS Grid Ref	Site Type	Pollutant Monitored
Masons 39 Stert St, Abingdon	Abingdon CA	449790	197180	Roadside	NOx/ NO2

Table 1.3: Annual mean NO₂ concentrations at automatic monitoring sites

Site ID	2019	2020	2021	2022	2023
Abingdon CA	22	16	17	18	18

Diffusion tube monitoring

- 1.3.2 The details of the monitoring locations are shown in Table 1.4. The results for recent years are shown in Table 1.5. Monitoring locations are provided in Figure 13.2: Air quality monitoring locations and Air Quality Management Areas.

Table 1.4: Details of diffusion tube monitoring results within 2 km of the draft Order limits

Site ID	Site Name	X OS Grid Ref	Y OS Grid Ref	Site Type	Distance and direction from the draft Order limits
SS76	Didcot- 20 Wantage Road	451780	189920	Kerbside	2.0 km east
SS77	Didcot- 100 Park Road	451643	189369	Kerbside	1.6 km south-east
SS78	Didcot- 1 Blackthorn Road	450870	190495	Kerbside	1.5 km east
SS79	Didcot-6 Mendip Heights	451424	190943	Roadside	2.0 km north-east
VS1	Abingdon- Baptist Church, Ock Street	449452	197047	Roadside	0.5 km north-east
VS2	Abingdon- Bath Street	449585	197273	Kerbside	0.7 km north-east
VS3	Abingdon- Copenhagen Drive	448364	197836	Kerbside	0.3 km north-east
VS4	Abingdon- Henry Liddon Court	448442	196953	Roadside	0 km north

Site ID	Site Name	X OS Grid Ref	Y OS Grid Ref	Site Type	Distance and direction from the draft Order limits
VS5	Abingdon- High St	449695	197049	Roadside	0.9 km north-east
VS6	Abingdon- Lamp post 7 Drayton Rd	448791	196725	Roadside	0 km north-west
VS7	Abingdon- Marcham Rd Lamp post 5	448738	196967	Roadside	0 km south
VS8, VS9, VS10	Abingdon- Masons Stert Street	449794	197176	Roadside	0.9km north-east
VS11	Abingdon- Ock Street Drama Club	448828	196966	Roadside	0 km north
VS12	Abingdon- Ock Street Lamp Post 12	449225	196992	Roadside	0.3 km north-east
VS13	Abingdon- Stratton Way	449452	197047	Roadside	0.5 km north-east
VS14	Abingdon- Turner Road	448869	196180	Urban background	0.2 km east
VS15	Abingdon- CYPS, Stratton Way	449518	197160	Roadside	0.6 km north-east
VS24	Abingdon- LP35 Dunmore Rd	449558	199016	Kerbside	1.9 km north-east
VS35	Faringdon- Town Hall	450886	194359	Kerbside	0.9 km south-east
VS38	Marcham- 10 Packhorse Lane	445552	196639	Kerbside	0.4 km north
VS39	Marcham- 13 Packhorse Lane	445571	196675	Roadside	0.5 km north
VS40	Marcham- 24 Mill Rd (pole 193 opp)	445522	196470	Urban background	0.3 km north
VS41	Marcham- 4 Frilford Road	445456	196623	Roadside	0.5 km north

Site ID	Site Name	X OS Grid Ref	Y OS Grid Ref	Site Type	Distance and direction from the draft Order limits
VS42	Marcham- 4 Packhorse Lane	445528	196628	Kerbside	0.5 km north
VS43	Marcham- Rafters B&B Abingdon Road	445875	196657	Kerbside	0 km west
VS44	Shippon- 1 Whitehouse Close	448150	198190	Urban background	0.4km north-east
VS45	Shippon- Barrow Road	448092	198055	Roadside	0.3 km north
VS46	Shippon- Faringdon Rd	448349	198086	Roadside	0.5 km north-east
VS47	Sutton Courtenay- Junction	450886	194359	Kerbside	0.9 km north-east
VS48	Sutton Courtenay- Mill House	450588	194391	Kerbside	0.6 km south-east
VS49	Wantage- Grove Rd/Wolage Dr LPLP47A	440068	189087	Roadside	1.9 km south

Table 1.5: Annual mean NO₂ concentrations at diffusion tube monitoring sites

Site ID	2019	2020	2021	2022	2023
SS76	23.9	18.8	16.9	19.9	19.6
SS77	19.4	12.9	13.5	14.5	12.5
SS78	19.6	15	15.7	14.2	15.9
SS79	16.7	12.6	12.3	12.3	11.9
VS1	29.9	17.9	21.2	21.3	20.2
VS2	25.4	15.1	17.6	17.5	18.5
VS3	29.1	18.9	21.3	20.9	20.9
VS4	35.8	23	25.3	26.6	25.9
VS5	36.5	21.8	23.2	25.6	23.9
VS6	30.8	18.7	22.5	22.9	23.5

Site ID	2019	2020	2021	2022	2023
VS7	38.9	25.6	30.1	31.1	29.4
VS8, VS9, VS10	25	15.4	17.6	18.4	17.4
VS11	32.6	20.8	22.5	24.8	20.5
VS12	29.4	16	20.3	20.6	21.2
VS13	41.3	27.6	27.2	28.1	30.2
VS14	14.4	8.4	9.2	10.2	8.2
VS15	20.7	13.1	13.3	14	13.1
VS24	N/A	14.9	18.3	18.9	16.7
VS35	20.7	13.9	14.1	14.1	15
VS38	41.4	24.3	31.3	30.4	29.8
VS39	33.3	20.8	25.6	26.5	24.1
VS40	10.6	6.7	7.9	7.9	6.1
VS41	35.6	22.5	26.5	26.8	25.3
VS42	26.3	16.6	20.2	19.8	17.8
VS43	28.9	18.2	21.2	20.8	19.9
VS44	N/A	N/A	8.4	8.8	8
VS45	N/A	N/A	12.9	13.4	10.9
VS46	N/A	N/A	17.5	17.5	16.2
VS47	25.6	14.8	14.5	17.3	15.8
VS48	24.5	14.4	16.2	17.3	14.7
VS49	15.1	16.2	20.6	21.4	19.2



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