

**LAND NORTH-WEST OF
SOUTHWATER, HORSHAM**

**ENVIRONMENTAL STATEMENT
VOLUME II, APPENDIX 6.4: MODELLLED
HUMAN RECEPTORS AND
BACKGROUND POLLUTANT
CONCENTRATIONS**

FEBRUARY 2026





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6.4 MODELLED HUMAN RECEPTORS AND BACKGROUND POLLUTANT CONCENTRATIONS

Table 6-4-1: Modelled receptor locations and background annual mean pollutant concentrations ($\mu\text{g}/\text{m}^3$)

ID	X(m)	Y(m)	Height above ground level (m)	2024 NO ₂	2024 PM ₁₀	2024 PM _{2.5}	2036 NO ₂	2036 PM ₁₀	2036 PM _{2.5}
Existing Sensitive Receptor Locations									
R_1	515012.3	126424.6	1.5	7.9	10.4	6.5	5.8	9.5	5.8
R_2	515374.4	126312.0	1.5	7.9	10.4	6.5	5.8	9.5	5.8
R_3	515632.8	126243.7	1.5	7.9	10.4	6.5	5.8	9.5	5.8
R_4	515663.2	126247.4	1.5	7.9	10.4	6.5	5.8	9.5	5.8
R_5	515617.1	126918.7	1.5	7.9	10.4	6.5	5.8	9.5	5.8
R_6	515656.7	126956.7	1.5	7.9	10.4	6.5	5.8	9.5	5.8
R_7	515724.4	127417.1	1.5	7.6	10.8	6.3	5.5	10.0	5.6
R_8	515753.2	127453.6	1.5	7.6	10.8	6.3	5.5	10.0	5.6
R_9	515689.5	127920.1	1.5	7.6	10.8	6.3	5.5	10.0	5.6
R_10	516126.1	128148.7	1.5	8.1	10.4	6.3	5.7	9.6	5.6
R_11	515683.5	128801.8	1.5	8.0	10.5	6.3	5.6	9.7	5.6
R_12	515566.4	128719.0	1.5	8.0	10.5	6.3	5.6	9.7	5.6



ID	X(m)	Y(m)	Height above ground level (m)	2024 NO ₂	2024 PM ₁₀	2024 PM _{2.5}	2036 NO ₂	2036 PM ₁₀	2036 PM _{2.5}
R_13	515288.8	128218.7	1.5	8.0	10.5	6.3	5.6	9.7	5.6
R_14	514779.9	127235.3	1.5	7.3	10.5	6.2	5.3	9.7	5.5
R_15	514714.0	127138.0	1.5	7.3	10.5	6.2	5.3	9.7	5.5
R_16	515020.8	128853.5	1.5	8.0	10.5	6.3	5.6	9.7	5.6
R_17	513680.3	128963.3	1.5	7.2	10.6	6.2	5.2	9.8	5.5
R_18	513761.9	129557.6	1.5	7.3	11.2	6.3	5.3	10.4	5.6
R_19	513141.0	130059.2	1.5	7.6	10.7	6.3	5.3	9.9	5.6
R_20	511741.3	129348.6	1.5	7.2	9.9	6.1	5.1	9.1	5.4
R_21	510666.4	128936.0	1.5	7.0	10.5	6.1	5.0	9.7	5.4
R_22	509818.3	128415.4	1.5	6.9	10.3	6.1	4.8	9.5	5.4
R_23	509755.5	128381.5	1.5	6.9	10.3	6.1	4.8	9.5	5.4
R_24	517481.0	127733.1	1.5	7.6	10.2	6.2	5.5	9.4	5.5
R_25	517619.5	127965.8	1.5	7.6	10.2	6.2	5.5	9.4	5.5
R_26	516010.9	129539.3	1.5	8.3	10.5	6.4	5.9	9.8	5.7
R_27	515623.9	131295.8	1.5	9.5	11.7	6.7	6.3	11.0	6.0
R_28	515542.4	131195.8	1.5	9.5	11.7	6.7	6.3	11.0	6.0



ID	X(m)	Y(m)	Height above ground level (m)	2024 NO ₂	2024 PM ₁₀	2024 PM _{2.5}	2036 NO ₂	2036 PM ₁₀	2036 PM _{2.5}
R_29	518357.4	129810.1	1.5	8.1	10.3	6.4	5.8	9.6	5.7
R_30	518342.8	129835.1	1.5	8.1	10.3	6.4	5.8	9.6	5.7
R_31	518336.5	129880.3	1.5	8.1	10.3	6.4	5.8	9.6	5.7
R_32	518227.8	129963.9	1.5	8.1	10.3	6.4	5.8	9.6	5.7
R_33	518239.9	129995.3	1.5	8.1	10.3	6.4	5.8	9.6	5.7
R_34	515256.7	130463.7	1.5	9.6	11.3	6.7	6.3	10.5	6.0
Proposed Receptor Locations									
FR_35	515587.3	126948.8	1.5	7.9	10.4	6.5	5.8	9.5	5.8
FR_36	515745.6	128353.6	1.5	8.0	10.5	6.3	5.6	9.7	5.6
FR_37	515748.1	128377.6	1.5	8.0	10.5	6.3	5.6	9.7	5.6
FR_38	516070.3	128239.5	1.5	8.1	10.4	6.3	5.7	9.6	5.6



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