

Welsh Government

M4 Corridor around Newport

March 2017 Environmental
Statement Supplement: Appendix
TS7.1 Air Quality Operational
Assessment Results

M4CaN-DJV-EAQ-ZG_GEN-AX-EN-0005

At Issue | March 2017

1.1 Operation

Table 7.3.4: Annual Mean NO₂ Concentrations at Human Health Receptors Assessed

ID	IAN 185/15				IAN 170/12				IAN 185/15				IAN 170/12			
	2014	2022			2022			2037			2037					
	Base	Do Minimum	Do Something	Magnitude of Impact	Do Minimum	Do Something	Magnitude of Impact	Do Minimum	Do Something	Magnitude of Impact	Do Minimum	Do Something	Magnitude of Impact			
HH1	22.8	15.6	15.7	Negligible	17.3	17.4	Negligible	14.3	14.6	Negligible	16.0	16.3	Negligible			
HH2	23.0	16.1	16.3	Negligible	17.4	17.7	Negligible	14.7	15.0	Negligible	16.0	16.3	Negligible			
HH3	25.4	17.4	17.9	Minor Adverse	19.2	19.7	Minor Adverse	15.9	16.3	Negligible	17.9	18.4	Minor Adverse			
HH4	20.5	14.9	15.3	Negligible	15.4	15.9	Minor Adverse	13.7	14.2	Minor Adverse	14.0	14.5	Minor Adverse			
HH5	23.5	16.4	16.4	Negligible	17.7	17.8	Negligible	15.0	15.1	Negligible	16.4	16.4	Negligible			
HH6	23.3	16.7	16.6	Negligible	17.4	17.3	Negligible	15.3	15.1	Negligible	16.0	15.9	Negligible			
HH7	26.2	16.6	16.4	Negligible	18.8	18.6	Negligible	15.1	15.0	Negligible	17.8	17.7	Negligible			
HH8	26.5	20.7	20.5	Negligible	20.7	20.5	Negligible	20.1	19.9	Negligible	20.1	19.9	Negligible			
HH9	35.0	23.3	19.4	Moderate Beneficial	28.0	23.3	Major Beneficial	20.8	17.7	Moderate Beneficial	26.5	22.5	Moderate Beneficial			
HH10	41.4	26.1	21.5	Major Beneficial	32.3	26.6	Major Beneficial	23.0	19.4	Moderate Beneficial	30.9	26.0	Major Beneficial			
HH11	28.1	20.6	20.1	Minor Beneficial	21.5	21.0	Minor Beneficial	19.2	18.8	Negligible	19.7	19.3	Negligible			
HH12	15.5	12.4	13.0	Minor Adverse	12.4	13.0	Minor Adverse	12.1	12.6	Minor Adverse	12.1	12.6	Minor Adverse			
HH13	15.5	12.4	13.9	Minor Adverse	12.4	13.9	Minor Adverse	12.1	13.4	Minor Adverse	12.1	13.4	Minor Adverse			
HH14	32.3	21.3	19.3	Minor Beneficial	24.6	22.3	Moderate Beneficial	18.9	17.7	Minor Beneficial	22.8	21.4	Minor Beneficial			
HH15	38.9	24.7	21.7	Moderate Beneficial	29.8	26.1	Moderate Beneficial	21.6	19.6	Minor Beneficial	27.9	25.3	Moderate Beneficial			
HH16	39.4	29.2	27.6	Minor Beneficial	29.8	28.2	Minor Beneficial	27.3	26.0	Minor Beneficial	27.5	26.1	Minor Beneficial			
HH17	26.0	19.9	19.6	Negligible	19.9	19.6	Negligible	19.0	18.8	Negligible	19.0	18.8	Negligible			
HH18	35.1	23.9	22.0	Minor Beneficial	26.9	24.8	Moderate Beneficial	21.5	20.2	Minor Beneficial	24.8	23.4	Minor Beneficial			
HH19	34.5	24.2	23.7	Minor Beneficial	26.5	25.9	Minor Beneficial	21.9	21.5	Negligible	24.7	24.3	Negligible			
HH20	42.0	27.9	25.7	Moderate Beneficial	32.5	30.0	Moderate Beneficial	24.8	23.3	Minor Beneficial	30.5	28.6	Minor Beneficial			
HH21	43.0	28.6	26.5	Moderate Beneficial	33.4	31.0	Moderate Beneficial	25.3	23.9	Minor Beneficial	31.4	29.6	Minor Beneficial			
HH22	32.3	22.7	22.1	Minor Beneficial	24.5	23.9	Minor Beneficial	20.6	20.2	Minor Beneficial	22.6	22.2	Minor Beneficial			
HH23	29.4	21.2	19.6	Minor Beneficial	22.3	20.7	Minor Beneficial	19.5	18.3	Minor Beneficial	20.5	19.3	Minor Beneficial			
HH24	35.2	25.1	24.4	Minor Beneficial	26.5	25.8	Minor Beneficial	23.0	22.3	Minor Beneficial	24.5	23.8	Minor Beneficial			
HH25	30.0	22.4	22.0	Negligible	22.5	22.1	Negligible	20.9	20.5	Negligible	20.9	20.5	Negligible			
HH26	35.4	24.3	20.4	Moderate Beneficial	28.1	23.6	Major Beneficial	22.1	19.2	Moderate Beneficial	26.3	23.0	Moderate Beneficial			
HH27	25.6	18.5	18.1	Negligible	19.3	18.9	Minor	17.4	17.1	Negligible	17.6	17.4	Negligible			

ID	IAN 185/15			IAN 170/12			IAN 185/15			IAN 170/12			
	2014	2022		2022		2037			2037				
	Base	Do Minimum	Do Something	Magnitude of Impact	Do Minimum	Do Something	Magnitude of Impact	Do Minimum	Do Something	Magnitude of Impact	Do Minimum	Do Something	Magnitude of Impact
							Beneficial						
HH28	27.0	22.7	22.7	Negligible	22.7	22.7	Negligible	22.6	22.6	Negligible	22.6	22.6	Negligible
HH29	37.2	25.3	20.7	Major Beneficial	29.9	24.5	Major Beneficial	23.0	19.7	Moderate Beneficial	28.1	24.1	Moderate Beneficial
HH30	15.8	12.8	13.8	Minor Adverse	12.8	13.8	Minor Adverse	12.5	13.3	Minor Adverse	12.5	13.3	Minor Adverse
HH31	26.5	20.6	20.3	Negligible	20.6	20.3	Negligible	19.6	19.5	Negligible	19.6	19.5	Negligible
HH32	39.3	26.0	20.3	Major Beneficial	32.1	25.1	Major Beneficial	23.2	19.2	Moderate Beneficial	30.4	25.1	Major Beneficial
HH33	13.9	10.9	11.6	Minor Adverse	10.9	11.6	Minor Adverse	10.6	11.1	Minor Adverse	10.6	11.1	Minor Adverse
HH34	22.6	16.6	16.2	Minor Beneficial	17.2	16.7	Minor Beneficial	15.5	15.2	Negligible	15.7	15.3	Negligible
HH35	21.4	15.4	14.7	Minor Beneficial	16.1	15.4	Minor Beneficial	14.4	13.9	Minor Beneficial	14.8	14.2	Minor Beneficial
HH36	31.4	20.5	16.3	Major Beneficial	24.8	19.7	Major Beneficial	18.5	15.4	Moderate Beneficial	23.2	19.2	Moderate Beneficial
HH37	11.3	8.8	9.7	Minor Adverse	8.8	9.7	Minor Adverse	8.5	9.3	Minor Adverse	8.5	9.3	Minor Adverse
HH38	21.8	14.4	11.8	Moderate Beneficial	17.1	14.1	Moderate Beneficial	13.2	11.2	Minor Beneficial	15.9	13.6	Moderate Beneficial
HH39	14.5	11.4	11.9	Minor Adverse	11.4	11.9	Minor Adverse	11.2	11.6	Negligible	11.2	11.6	Negligible
HH40	14.5	11.4	12.1	Minor Adverse	11.4	12.1	Minor Adverse	11.2	11.8	Minor Adverse	11.2	11.8	Minor Adverse
HH41	15.8	12.4	13.3	Minor Adverse	12.4	13.3	Minor Adverse	12.0	12.8	Minor Adverse	12.0	12.8	Minor Adverse
HH42	16.0	12.6	13.1	Minor Adverse	12.6	13.1	Minor Adverse	12.1	12.6	Minor Adverse	12.1	12.6	Minor Adverse
HH43	16.6	12.7	13.2	Minor Adverse	12.7	13.2	Minor Adverse	12.4	12.8	Negligible	12.4	12.8	Negligible
HH44	16.9	12.8	13.7	Minor Adverse	12.8	13.7	Minor Adverse	12.5	13.2	Minor Adverse	12.5	13.2	Minor Adverse
HH45	17.9	13.3	14.1	Minor Adverse	13.6	14.4	Minor Adverse	12.9	13.5	Minor Adverse	12.9	13.5	Minor Adverse
HH46	23.7	16.2	15.3	Minor Beneficial	18.6	17.6	Minor Beneficial	15.7	14.7	Minor Beneficial	17.8	16.7	Minor Beneficial
HH47	15.2	10.9	11.0	Negligible	11.5	11.6	Negligible	10.3	10.4	Negligible	10.5	10.6	Negligible
HH48	15.6	11.7	11.6	Negligible	11.7	11.6	Negligible	11.2	11.1	Negligible	11.2	11.1	Negligible
HH49	15.6	11.4	11.9	Minor Adverse	11.8	12.3	Minor Adverse	10.7	11.2	Minor Adverse	10.7	11.2	Minor Adverse
HH50	17.4	12.4	13.3	Minor Adverse	13.3	14.2	Minor Adverse	11.5	12.6	Minor Adverse	12.2	13.3	Minor Adverse
HH51	17.9	12.6	13.9	Minor Adverse	13.5	14.9	Minor Adverse	11.6	13.0	Minor Adverse	12.4	13.8	Minor Adverse
HH52	16.8	12.0	12.6	Minor Adverse	12.7	13.3	Minor Adverse	11.2	11.9	Minor Adverse	11.6	12.3	Minor Adverse

Table 7.3.5: Annual Mean PM₁₀ Concentrations at Human Health Receptors Assessed

ID	2014	2022			2037		
	Base	Do Minimum	Do Something	Magnitude of Impact	Do Minimum	Do Something	Magnitude of Impact
HH1	17.1	16.1	16.1	Negligible	16.2	16.2	Negligible
HH2	16.5	15.4	15.4	Negligible	15.5	15.5	Negligible
HH3	18.7	17.7	17.7	Negligible	17.9	17.9	Negligible
HH4	18.1	17.1	17.2	Negligible	17.2	17.3	Negligible
HH5	18.4	17.4	17.4	Negligible	17.5	17.5	Negligible
HH6	16.3	15.1	15.1	Negligible	15.3	15.2	Negligible
HH7	18.1	17.0	17.0	Negligible	17.2	17.2	Negligible
HH8	18.7	17.6	17.6	Negligible	17.8	17.7	Negligible
HH9	19.1	17.8	17.2	Minor Beneficial	18.0	17.4	Minor Beneficial
HH10	19.9	18.3	17.5	Minor Beneficial	18.6	17.8	Minor Beneficial
HH11	18.9	17.8	17.7	Negligible	18.2	18.0	Negligible
HH12	14.4	13.5	13.6	Negligible	13.5	13.6	Negligible
HH13	14.4	13.6	13.8	Negligible	13.5	13.8	Negligible
HH14	19.0	17.8	17.5	Negligible	18.0	17.7	Negligible
HH15	19.7	18.3	17.8	Minor Beneficial	18.6	18.0	Minor Beneficial
HH16	17.5	16.3	16.2	Negligible	16.5	16.3	Negligible
HH17	17.3	16.3	16.2	Negligible	16.5	16.4	Negligible
HH18	19.0	17.7	17.5	Negligible	17.9	17.7	Negligible
HH19	18.6	17.5	17.4	Negligible	17.6	17.6	Negligible
HH20	19.9	18.5	18.1	Negligible	18.7	18.3	Negligible
HH21	19.9	18.5	18.2	Negligible	18.8	18.4	Negligible
HH22	19.2	17.9	17.8	Negligible	18.1	18.0	Negligible
HH23	18.6	17.5	17.3	Negligible	17.6	17.4	Negligible
HH24	16.9	15.7	15.7	Negligible	15.8	15.7	Negligible
HH25	16.6	15.4	15.4	Negligible	15.5	15.5	Negligible
HH26	18.2	16.9	16.3	Minor Beneficial	17.1	16.5	Minor Beneficial
HH27	16.9	15.8	15.7	Negligible	15.9	15.8	Negligible
HH28	18.6	17.5	17.5	Negligible	17.8	17.8	Negligible
HH29	18.1	16.8	16.1	Minor Beneficial	17.0	16.3	Minor Beneficial
HH30	14.8	13.9	14.0	Negligible	13.9	14.0	Negligible
HH31	16.5	15.5	15.4	Negligible	15.6	15.5	Negligible
HH32	18.4	17.0	16.1	Minor Beneficial	17.2	16.3	Minor Beneficial
HH33	14.2	13.3	13.4	Negligible	13.3	13.4	Negligible
HH34	15.8	14.8	14.7	Negligible	14.9	14.8	Negligible
HH35	18.6	17.5	17.4	Negligible	17.6	17.5	Negligible
HH36	19.6	18.4	17.7	Minor Beneficial	18.6	17.8	Minor Beneficial
HH37	13.6	12.8	12.9	Negligible	12.7	12.8	Negligible
HH38	17.2	16.2	15.7	Minor Beneficial	16.2	15.8	Minor Beneficial
HH39	13.8	12.9	12.9	Negligible	12.8	12.9	Negligible
HH40	13.8	12.9	13.0	Negligible	12.8	12.9	Negligible
HH41	15.0	14.1	14.3	Negligible	14.1	14.2	Negligible
HH42	15.0	14.1	14.2	Negligible	14.1	14.2	Negligible
HH43	16.4	15.5	15.6	Negligible	15.5	15.6	Negligible
HH44	16.4	15.5	15.6	Negligible	15.5	15.7	Negligible
HH45	16.5	15.6	15.7	Negligible	15.6	15.8	Negligible
HH46	17.1	16.0	15.9	Negligible	16.2	16.0	Negligible
HH47	14.3	13.3	13.4	Negligible	13.3	13.3	Negligible

ID	2014	2022			2037		
	Base	Do Minimum	Do Something	Magnitude of Impact	Do Minimum	Do Something	Magnitude of Impact
HH48	16.5	15.6	15.6	Negligible	15.6	15.6	Negligible
HH49	17.3	16.4	16.4	Negligible	16.4	16.5	Negligible
HH50	17.5	16.5	16.6	Negligible	16.6	16.7	Negligible
HH51	17.6	16.6	16.7	Negligible	16.6	16.8	Negligible
HH52	17.4	16.5	16.6	Negligible	16.5	16.6	Negligible

Table 7.3.6 Annual Mean NOx Concentrations at Assessed Designated Sites

ID	Designated Site	2014	2022			2037		Magnitude of Impact
		Base	Do Minimum	Do Something	Do Minimum	Do Something		
Eco1	Fforestganol A Chwm Nofydd - A	26.4	18.4	18.4	Negligible	17.0	17.1	Negligible
Eco2	Fforestganol A Chwm Nofydd - B	25.5	17.9	17.9	Negligible	16.5	16.6	Negligible
Eco3	St Brides North - A	25.6	20.1	29.6	Major Adverse	19.7	28.1	Major Adverse
Eco4	St Brides North - B	25.6	20.1	23.3	Major Adverse	19.7	22.5	Moderate Adverse
Eco5	St Brides North - C	25.6	20.1	21.9	Moderate Adverse	19.7	21.3	Moderate Adverse
Eco6	St Brides North - D	25.6	20.2	21.4	Minor Adverse	19.7	20.8	Minor Adverse
Eco7	St Brides South - A	25.5	20.1	28.7	Major Adverse	19.7	27.2	Major Adverse
Eco8	St Brides South - B	25.5	20.1	22.7	Moderate Adverse	19.7	22.0	Moderate Adverse
Eco9	St Brides South - C	25.5	20.1	21.6	Moderate Adverse	19.7	21.0	Minor Adverse
Eco10	St Brides South - D	25.4	20.0	21.1	Minor Adverse	19.7	20.6	Minor Adverse
Eco11	River Usk North - A	29.3	23.7	24.4	Minor Adverse	23.4	24.1	Minor Adverse
Eco12	River Usk North - B	29.3	23.7	24.4	Minor Adverse	23.4	24.1	Minor Adverse
Eco13	River Usk North - C	29.4	23.7	24.4	Minor Adverse	23.4	24.1	Minor Adverse
Eco14	River Usk North - D	29.4	23.7	24.4	Minor Adverse	23.4	24.1	Minor Adverse
Eco15	River Usk North - E	24.8	19.4	20.1	Minor Adverse	18.9	19.6	Minor Adverse
Eco16	River Usk South - A	29.3	23.6	24.4	Minor Adverse	23.4	24.1	Minor Adverse
Eco17	River Usk South - B	29.3	23.6	24.4	Minor Adverse	23.4	24.1	Minor Adverse
Eco18	River Usk South - C	29.2	23.6	24.3	Minor Adverse	23.4	24.0	Minor Adverse
Eco19	River Usk South - D	29.2	23.6	24.3	Minor Adverse	23.4	24.0	Minor Adverse
Eco20	River Usk South - E	29.2	23.6	24.2	Minor Adverse	23.3	23.9	Minor Adverse
Eco21	Nash & Goldcliff North - A	18.9	14.5	23.5	Major Adverse	14.0	22.0	Major Adverse
Eco22	Nash & Goldcliff North - B	18.9	14.5	17.3	Moderate Adverse	14.0	16.5	Moderate Adverse
Eco23	Nash & Goldcliff North - C	19.0	14.5	16.1	Moderate Adverse	14.0	15.5	Minor Adverse
Eco24	Nash & Goldcliff North - D	19.0	14.5	15.7	Minor Adverse	14.0	15.1	Minor Adverse
Eco25	Nash & Goldcliff North - E	19.0	14.5	15.4	Minor Adverse	14.0	14.9	Minor Adverse
Eco26	Nash & Goldcliff South - A	18.9	14.5	24.2	Major Adverse	14.0	22.7	Major Adverse
Eco27	Nash & Goldcliff South - B	18.9	14.4	17.8	Major Adverse	14.0	16.9	Moderate Adverse
Eco28	Nash & Goldcliff South - C	18.8	14.4	16.4	Moderate Adverse	13.9	15.8	Moderate Adverse
Eco29	Nash & Goldcliff South - D	18.8	14.4	15.9	Minor Adverse	13.9	15.3	Minor Adverse
Eco30	Nash & Goldcliff South - E	18.8	14.4	15.7	Minor Adverse	13.9	15.1	Minor Adverse
Eco31	Whitson North - A	14.9	11.2	21.7	Major Adverse	10.8	20.1	Major Adverse
Eco32	Whitson North - B	15.0	11.2	14.6	Major Adverse	10.8	13.8	Moderate Adverse
Eco33	Whitson North - C	15.0	11.3	13.2	Moderate Adverse	10.8	12.5	Moderate Adverse
Eco34	Whitson North - E	15.1	11.3	12.4	Minor Adverse	10.9	11.8	Minor Adverse
Eco35	Whitson North - D	15.0	11.3	12.6	Minor Adverse	10.8	12.0	Minor Adverse
Eco36	Whitson South - A	14.9	11.2	19.2	Major Adverse	10.8	18.0	Major Adverse
Eco37	Whitson South - B	14.9	11.2	14.0	Moderate Adverse	10.8	13.3	Moderate Adverse

ID	Designated Site	2014	2022			2037		Magnitude of Impact
		Base	Do Minimum	Do Something	Do Minimum	Do Something		
Eco38	Whitson South - C	14.8	11.2	12.9	Moderate Adverse	10.7	12.3	Moderate Adverse
Eco39	Whitson South - D	14.8	11.2	12.4	Minor Adverse	10.7	11.8	Minor Adverse
Eco40	Whitson South - E	14.8	11.2	12.1	Minor Adverse	10.7	11.6	Minor Adverse
Eco41	Llanmartin Meadows - A	52.3	36.6	24.7	Major Beneficial	31.5	22.7	Major Beneficial
Eco42	Llanmartin Meadows - B	30.4	20.3	17.0	Major Beneficial	18.2	15.8	Moderate Beneficial
Eco43	Llanmartin Meadows - C	26.0	17.7	15.8	Moderate Beneficial	16.4	14.9	Minor Beneficial
Eco44	Llanmartin Meadows - D	24.1	16.7	15.4	Minor Beneficial	15.6	14.6	Minor Beneficial
Eco45	Llanmartin Meadows - E	23.3	16.3	15.3	Minor Beneficial	15.2	14.4	Minor Beneficial
Eco46	Redwick and Llandeenny - A	15.5	11.7	20.5	Major Adverse	11.3	19.2	Major Adverse
Eco47	Redwick and Llandeenny - B	15.2	11.3	14.2	Moderate Adverse	10.9	13.4	Moderate Adverse
Eco48	Redwick and Llandeenny - C	15.6	11.4	13.2	Moderate Adverse	11.0	12.5	Moderate Adverse
Eco49	Redwick and Llandeenny - D	19.2	13.8	14.9	Minor Adverse	13.5	14.3	Minor Adverse
Eco50	Redwick and Llandeenny - E	20.7	14.4	15.2	Minor Adverse	14.1	14.5	Minor Adverse
Eco51	Redwick and Llandeenny South - A	15.4	11.6	21.9	Major Adverse	11.2	20.5	Major Adverse
Eco52	Redwick and Llandeenny South - B	15.3	11.6	14.8	Major Adverse	11.2	14.0	Moderate Adverse
Eco53	Redwick and Llandeenny South - C	15.3	11.6	13.4	Moderate Adverse	11.2	12.8	Moderate Adverse
Eco54	Redwick and Llandeenny South - D	15.2	11.5	12.8	Minor Adverse	11.1	12.3	Minor Adverse
Eco55	Redwick and Llandeenny South - E	15.2	11.5	12.5	Minor Adverse	11.1	12.0	Minor Adverse
Eco56	Magor and Undy - A	20.8	15.8	15.7	Negligible	15.4	15.3	Negligible
Eco57	Magor and Undy - B	20.1	15.4	15.4	Negligible	15.0	15.1	Negligible
Eco58	Magor and Undy - C	19.9	15.3	15.4	Negligible	14.9	15.0	Negligible
Eco59	Magor and Undy - D	19.8	15.2	15.3	Negligible	14.9	15.0	Negligible
Eco60	Nedern Brook Wetlands North - A	25.8	17.3	18.0	Minor Adverse	15.9	18.1	Moderate Adverse
Eco61	Nedern Brook Wetlands North - B	17.7	12.8	13.0	Negligible	12.2	12.5	Minor Adverse
Eco62	Nedern Brook Wetlands North - C	16.9	12.4	12.5	Negligible	11.8	12.0	Negligible
Eco63	Nedern Brook Wetlands North - D	16.6	12.3	12.3	Negligible	11.7	11.8	Negligible
Eco64	Nedern Brook Wetlands North - E	16.4	12.2	12.2	Negligible	11.6	11.7	Negligible
Eco65	Nedern Brook Wetlands South - A	23.7	16.3	16.8	Minor Adverse	15.2	16.4	Minor Adverse
Eco66	Nedern Brook Wetlands South - B	18.0	13.1	13.2	Negligible	12.4	12.7	Minor Adverse
Eco67	Nedern Brook Wetlands South - C	17.1	12.6	12.6	Negligible	11.9	12.1	Negligible
Eco68	Nedern Brook Wetlands South - D	16.8	12.4	12.4	Negligible	11.8	11.9	Negligible
Eco69	Nedern Brook Wetlands South - E	16.6	12.3	12.3	Negligible	11.7	11.8	Negligible
Eco70	Severn Estuary North - A	47.2	32.9	33.8	Minor Adverse	28.6	28.7	Negligible
Eco71	Severn Estuary North - B	30.5	20.3	20.7	Minor Adverse	19.3	19.3	Negligible
Eco72	Severn Estuary North - C	26.5	18.4	18.6	Negligible	17.6	17.6	Negligible
Eco73	Severn Estuary North - D	24.8	17.6	17.8	Negligible	16.9	16.9	Negligible
Eco74	Severn Estuary North - E	24.0	17.2	17.3	Negligible	16.5	16.5	Negligible
Eco75	Severn Estuary South - A	62.1	44.3	45.8	Minor Adverse	39.3	39.6	Negligible

ID	Designated Site	2014	2022			2037		
		Base	Do Minimum	Do Something	Magnitude of Impact	Do Minimum	Do Something	Magnitude of Impact
Eco76	Severn Estuary South - B	28.9	19.6	19.9	Negligible	18.6	18.7	Negligible
Eco77	Severn Estuary South - C	25.2	17.7	17.9	Negligible	17.0	17.0	Negligible
Eco78	Severn Estuary South - D	23.7	17.0	17.1	Negligible	16.3	16.4	Negligible
Eco79	Severn Estuary South - E	22.9	16.6	16.7	Negligible	16.0	16.0	Negligible
Eco80	River Wye - A	25.5	19.3	18.5	Minor Beneficial	18.0	18.4	Minor Adverse
Eco81	River Wye - B	17.6	13.4	13.2	Negligible	12.9	13.0	Negligible
Eco82	River Wye - C	16.4	12.6	12.5	Negligible	12.1	12.2	Negligible
Eco83	River Wye - D	15.9	12.2	12.1	Negligible	11.7	11.8	Negligible
Eco84	River Wye - E	15.6	12.0	11.9	Negligible	11.6	11.6	Negligible

Table 7.3.7 2022 Opening Year Nitrogen Deposition Rates (kg N/ha/yr)

ID	Designated Site	IAN 185/15			IAN170/12		
		Do Minimum	Do Something	Change in Nitrogen deposition	Do Minimum	Do Something	Change in Nitrogen deposition
Eco1	Fforestganol A Chwm Nofydd - A	14.4	14.4	0.0	14.4	14.4	0.0
Eco2	Fforestganol A Chwm Nofydd - B	14.4	14.4	0.0	14.4	14.4	0.0
Eco3	St Brides North - A	8.0	8.5	0.5	8.0	8.5	0.5
Eco4	St Brides North - B	8.0	8.2	0.2	8.0	8.2	0.2
Eco5	St Brides North - C	8.0	8.1	0.1	8.0	8.1	0.1
Eco6	St Brides North - D	8.0	8.1	0.1	8.0	8.1	0.1
Eco7	St Brides South - A	8.0	8.5	0.5	8.0	8.5	0.5
Eco8	St Brides South - B	8.0	8.2	0.2	8.0	8.2	0.2
Eco9	St Brides South - C	8.0	8.1	0.1	8.0	8.1	0.1
Eco10	St Brides South - D	8.0	8.1	0.1	8.0	8.1	0.1
Eco11	River Usk North - A	12.8	12.9	0.1	12.8	12.9	0.1
Eco12	River Usk North - B	12.8	12.9	0.1	12.8	12.9	0.1
Eco13	River Usk North - C	12.8	12.9	0.1	12.8	12.9	0.1
Eco14	River Usk North - D	12.8	12.9	0.1	12.8	12.9	0.1
Eco15	River Usk North - E	12.8	12.9	0.1	12.8	12.9	0.1
Eco16	River Usk South - A	12.8	12.9	0.1	12.8	12.9	0.1
Eco17	River Usk South - B	12.8	12.9	0.1	12.8	12.9	0.1
Eco18	River Usk South - C	12.8	12.9	0.1	12.8	12.9	0.1
Eco19	River Usk South - D	12.8	12.9	0.1	12.8	12.9	0.1
Eco20	River Usk South - E	12.8	12.9	0.1	12.8	12.9	0.1
Eco21	Nash & Goldcliff North - A	12.8	13.3	0.5	12.8	13.3	0.5
Eco22	Nash & Goldcliff North - B	12.8	13.0	0.2	12.8	13.0	0.2
Eco23	Nash & Goldcliff North - C	12.8	12.9	0.1	12.8	12.9	0.1
Eco24	Nash & Goldcliff North - D	12.8	12.9	0.1	12.8	12.9	0.1
Eco25	Nash & Goldcliff North - E	12.8	12.9	0.1	12.8	12.9	0.1
Eco26	Nash & Goldcliff South - A	12.8	13.3	0.5	12.8	13.3	0.5
Eco27	Nash & Goldcliff South - B	12.8	13.0	0.2	12.8	13.0	0.2
Eco28	Nash & Goldcliff South - C	12.8	12.9	0.1	12.8	12.9	0.1
Eco29	Nash & Goldcliff South - D	12.8	12.9	0.1	12.8	12.9	0.1
Eco30	Nash & Goldcliff South - E	12.8	12.9	0.1	12.8	12.9	0.1
Eco31	Whitson North - A	11.9	12.5	0.6	11.9	12.5	0.6
Eco32	Whitson North - B	11.9	12.1	0.2	11.9	12.1	0.2
Eco33	Whitson North - C	11.9	12.0	0.1	11.9	12.0	0.1
Eco34	Whitson North - E	11.9	12.0	0.1	11.9	12.0	0.1
Eco35	Whitson North - D	11.9	12.0	0.1	11.9	12.0	0.1
Eco36	Whitson South - A	11.9	12.3	0.4	11.9	12.3	0.4
Eco37	Whitson South - B	11.9	12.1	0.2	11.9	12.1	0.2
Eco38	Whitson South - C	11.9	12.0	0.1	11.9	12.0	0.1
Eco39	Whitson South - D	11.9	12.0	0.1	11.9	12.0	0.1
Eco40	Whitson South - E	11.9	12.0	0.1	11.9	12.0	0.1
Eco41	Llanmartin Meadows - A	13.2	12.7	-0.5	13.7	13.1	-0.6
Eco42	Llanmartin Meadows - B	12.7	12.5	-0.2	12.9	12.7	-0.2

ID	Designated Site	IAN 185/15			IAN170/12		
		Do Minimum	Do Something	Change in Nitrogen deposition	Do Minimum	Do Something	Change in Nitrogen deposition
Eco43	Llanmartin Meadows - C	12.6	12.5	-0.1	12.7	12.6	-0.1
Eco44	Llanmartin Meadows - D	12.5	12.5	0.0	12.6	12.5	-0.1
Eco45	Llanmartin Meadows - E	12.5	12.5	0.0	12.6	12.5	-0.1
Eco46	Redwick and Llandevenny - A	12.6	13.1	0.5	12.6	13.1	0.5
Eco47	Redwick and Llandevenny - B	12.6	12.8	0.2	12.6	12.8	0.2
Eco48	Redwick and Llandevenny - C	12.6	12.7	0.1	12.6	12.7	0.1
Eco49	Redwick and Llandevenny - D	12.7	12.7	0.0	12.7	12.7	0.0
Eco50	Redwick and Llandevenny - E	12.7	12.7	0.0	12.7	12.8	0.1
Eco51	Redwick and Llandevenny South - A	12.6	13.2	0.6	12.6	13.2	0.6
Eco52	Redwick and Llandevenny South - B	12.6	12.8	0.2	12.6	12.8	0.2
Eco53	Redwick and Llandevenny South - C	12.6	12.7	0.1	12.6	12.7	0.1
Eco54	Redwick and Llandevenny South - D	12.6	12.7	0.1	12.6	12.7	0.1
Eco55	Redwick and Llandevenny South - E	12.6	12.7	0.1	12.6	12.7	0.1
Eco56	Magor and Undy - A	12.7	12.7	0.0	12.7	12.7	0.0
Eco57	Magor and Undy - B	12.6	12.6	0.0	12.6	12.6	0.0
Eco58	Magor and Undy - C	12.6	12.6	0.0	12.6	12.6	0.0
Eco59	Magor and Undy - D	12.6	12.6	0.0	12.6	12.6	0.0
Eco60	Nedern Brook Wetlands North - A	12.2	12.2	0.0	12.3	12.4	0.1
Eco61	Nedern Brook Wetlands North - B	12.0	12.0	0.0	12.0	12.0	0.0
Eco62	Nedern Brook Wetlands North - C	11.9	12.0	0.1	11.9	12.0	0.1
Eco63	Nedern Brook Wetlands North - D	11.9	11.9	0.0	11.9	11.9	0.0
Eco64	Nedern Brook Wetlands North - E	11.9	11.9	0.0	11.9	11.9	0.0
Eco65	Nedern Brook Wetlands South - A	12.1	12.2	0.1	12.3	12.3	0.0
Eco66	Nedern Brook Wetlands South - B	12.0	12.0	0.0	12.0	12.0	0.0
Eco67	Nedern Brook Wetlands South - C	12.0	12.0	0.0	12.0	12.0	0.0
Eco68	Nedern Brook Wetlands South - D	11.9	11.9	0.0	11.9	11.9	0.0
Eco69	Nedern Brook Wetlands South - E	11.9	11.9	0.0	11.9	11.9	0.0
Eco70	Severn Estuary North - A	10.3	10.3	0.0	10.7	10.8	0.1
Eco71	Severn Estuary North - B	9.9	9.9	0.0	10.0	10.0	0.0
Eco72	Severn Estuary North - C	9.8	9.8	0.0	9.8	9.9	0.1
Eco73	Severn Estuary North - D	9.7	9.7	0.0	9.8	9.8	0.0
Eco74	Severn Estuary North - E	9.7	9.7	0.0	9.7	9.7	0.0
Eco75	Severn Estuary South - A	10.6	10.7	0.1	11.3	11.4	0.1
Eco76	Severn Estuary South - B	9.8	9.9	0.1	9.9	10.0	0.1
Eco77	Severn Estuary South - C	9.7	9.8	0.1	9.8	9.8	0.0
Eco78	Severn Estuary South - D	9.7	9.7	0.0	9.7	9.7	0.0
Eco79	Severn Estuary South - E	9.7	9.7	0.0	9.7	9.7	0.0
Eco80	River Wye - A	14.7	14.7	0.0	14.9	14.8	-0.1
Eco81	River Wye - B	14.4	14.4	0.0	14.4	14.4	0.0
Eco82	River Wye - C	14.4	14.4	0.0	14.4	14.4	0.0
Eco83	River Wye - D	14.4	14.4	0.0	14.4	14.4	0.0
Eco84	River Wye - E	14.3	14.3	0.0	14.3	14.3	0.0

Table 7.3.8 2037 Future Year Nitrogen Deposition Rates (kg N/ha/yr)

ID	Designated Site	IAN 185/15			IAN170/12		
		Do Minimum	Do Something	Change in Nitrogen deposition	Do Minimum	Do Something	Change in Nitrogen deposition
Eco1	Fforestganol A Chwm Nofydd - A	10.7	10.7	0.0	10.7	10.7	0.0
Eco2	Fforestganol A Chwm Nofydd - B	10.7	10.7	0.0	10.7	10.7	0.0
Eco3	St Brides North - A	5.9	6.3	0.4	6.0	6.3	0.3
Eco4	St Brides North - B	5.9	6.1	0.2	6.0	6.1	0.1
Eco5	St Brides North - C	5.9	6.0	0.1	6.0	6.0	0.0
Eco6	St Brides North - D	5.9	6.0	0.1	6.0	6.0	0.0
Eco7	St Brides South - A	5.9	6.3	0.4	6.0	6.3	0.3
Eco8	St Brides South - B	5.9	6.0	0.1	6.0	6.0	0.0
Eco9	St Brides South - C	5.9	6.0	0.1	6.0	6.0	0.0
Eco10	St Brides South - D	5.9	6.0	0.1	6.0	6.0	0.0
Eco11	River Usk North - A	9.5	9.6	0.1	9.5	9.6	0.1
Eco12	River Usk North - B	9.5	9.6	0.1	9.5	9.6	0.1
Eco13	River Usk North - C	9.5	9.6	0.1	9.5	9.6	0.1
Eco14	River Usk North - D	9.5	9.6	0.1	9.5	9.6	0.1
Eco15	River Usk North - E	9.5	9.6	0.1	9.5	9.6	0.1
Eco16	River Usk South - A	9.5	9.6	0.1	9.5	9.6	0.1
Eco17	River Usk South - B	9.5	9.6	0.1	9.5	9.6	0.1
Eco18	River Usk South - C	9.5	9.6	0.1	9.5	9.6	0.1
Eco19	River Usk South - D	9.5	9.6	0.1	9.5	9.6	0.1
Eco20	River Usk South - E	9.5	9.5	0.0	9.5	9.5	0.0
Eco21	Nash & Goldcliff North - A	9.5	9.9	0.4	9.5	9.9	0.4
Eco22	Nash & Goldcliff North - B	9.5	9.7	0.2	9.5	9.7	0.2
Eco23	Nash & Goldcliff North - C	9.5	9.6	0.1	9.5	9.6	0.1
Eco24	Nash & Goldcliff North - D	9.5	9.6	0.1	9.5	9.6	0.1
Eco25	Nash & Goldcliff North - E	9.5	9.6	0.1	9.5	9.6	0.1
Eco26	Nash & Goldcliff South - A	9.5	10.0	0.5	9.5	10.0	0.5
Eco27	Nash & Goldcliff South - B	9.5	9.7	0.2	9.5	9.7	0.2
Eco28	Nash & Goldcliff South - C	9.5	9.6	0.1	9.5	9.6	0.1
Eco29	Nash & Goldcliff South - D	9.5	9.6	0.1	9.5	9.6	0.1
Eco30	Nash & Goldcliff South - E	9.5	9.6	0.1	9.5	9.6	0.1
Eco31	Whitson North - A	8.8	9.3	0.5	8.8	9.3	0.5
Eco32	Whitson North - B	8.8	9.0	0.2	8.8	9.0	0.2
Eco33	Whitson North - C	8.8	8.9	0.1	8.8	8.9	0.1
Eco34	Whitson North - E	8.8	8.9	0.1	8.8	8.9	0.1
Eco35	Whitson North - D	8.8	8.9	0.1	8.8	8.9	0.1
Eco36	Whitson South - A	8.8	9.2	0.4	8.8	9.2	0.4
Eco37	Whitson South - B	8.8	8.9	0.1	8.8	8.9	0.1
Eco38	Whitson South - C	8.8	8.9	0.1	8.8	8.9	0.1
Eco39	Whitson South - D	8.8	8.9	0.1	8.8	8.9	0.1
Eco40	Whitson South - E	8.8	8.9	0.1	8.8	8.9	0.1
Eco41	Llanmartin Meadows - A	9.8	9.4	-0.4	10.4	9.9	-0.5
Eco42	Llanmartin Meadows - B	9.3	9.2	-0.1	9.5	9.4	-0.1
Eco43	Llanmartin Meadows - C	9.2	9.2	0.0	9.3	9.2	-0.1
Eco44	Llanmartin Meadows - D	9.2	9.2	0.0	9.2	9.2	0.0
Eco45	Llanmartin Meadows - E	9.2	9.1	-0.1	9.2	9.2	0.0
Eco46	Redwick and Llandevenny - A	9.3	9.7	0.4	9.3	9.7	0.4
Eco47	Redwick and Llandevenny - B	9.3	9.5	0.2	9.3	9.5	0.2
Eco48	Redwick and Llandevenny - C	9.3	9.4	0.1	9.3	9.4	0.1
Eco49	Redwick and Llandevenny - D	9.4	9.4	0.0	9.4	9.4	0.0
Eco50	Redwick and Llandevenny - E	9.4	9.4	0.0	9.4	9.4	0.0
Eco51	Redwick and Llandevenny South - A	9.3	9.8	0.5	9.3	9.8	0.5
Eco52	Redwick and Llandevenny South - B	9.3	9.5	0.2	9.3	9.5	0.2
Eco53	Redwick and Llandevenny South - C	9.3	9.4	0.1	9.3	9.4	0.1
Eco54	Redwick and Llandevenny South - D	9.3	9.4	0.1	9.3	9.4	0.1

ID	Designated Site	IAN 185/15			IAN170/12		
		Do Minimum	Do Something	Change in Nitrogen deposition	Do Minimum	Do Something	Change in Nitrogen deposition
Eco55	Redwick and Llandeenny South - E	9.3	9.4	0.1	9.3	9.4	0.1
Eco56	Magor and Undy - A	9.4	9.3	-0.1	9.4	9.3	-0.1
Eco57	Magor and Undy - B	9.3	9.3	0.0	9.3	9.3	0.0
Eco58	Magor and Undy - C	9.3	9.3	0.0	9.3	9.3	0.0
Eco59	Magor and Undy - D	9.3	9.3	0.0	9.3	9.3	0.0
Eco60	Nedern Brook Wetlands North - A	9.0	9.1	0.1	9.2	9.3	0.1
Eco61	Nedern Brook Wetlands North - B	8.9	8.9	0.0	8.9	8.9	0.0
Eco62	Nedern Brook Wetlands North - C	8.8	8.8	0.0	8.8	8.8	0.0
Eco63	Nedern Brook Wetlands North - D	8.8	8.8	0.0	8.8	8.8	0.0
Eco64	Nedern Brook Wetlands North - E	8.8	8.8	0.0	8.8	8.8	0.0
Eco65	Nedern Brook Wetlands South - A	9.0	9.1	0.1	9.1	9.2	0.1
Eco66	Nedern Brook Wetlands South - B	8.9	8.9	0.0	8.9	8.9	0.0
Eco67	Nedern Brook Wetlands South - C	8.8	8.8	0.0	8.8	8.8	0.0
Eco68	Nedern Brook Wetlands South - D	8.8	8.8	0.0	8.8	8.8	0.0
Eco69	Nedern Brook Wetlands South - E	8.8	8.8	0.0	8.8	8.8	0.0
Eco70	Severn Estuary North - A	7.7	7.7	0.0	8.1	8.1	0.0
Eco71	Severn Estuary North - B	7.3	7.3	0.0	7.4	7.4	0.0
Eco72	Severn Estuary North - C	7.2	7.3	0.1	7.3	7.3	0.0
Eco73	Severn Estuary North - D	7.2	7.2	0.0	7.2	7.2	0.0
Eco74	Severn Estuary North - E	7.2	7.2	0.0	7.2	7.2	0.0
Eco75	Severn Estuary South - A	8.0	8.0	0.0	8.7	8.7	0.0
Eco76	Severn Estuary South - B	7.3	7.3	0.0	7.4	7.4	0.0
Eco77	Severn Estuary South - C	7.2	7.2	0.0	7.2	7.2	0.0
Eco78	Severn Estuary South - D	7.2	7.2	0.0	7.2	7.2	0.0
Eco79	Severn Estuary South - E	7.2	7.2	0.0	7.2	7.2	0.0
Eco80	River Wye - A	11.0	11.0	0.0	11.1	11.1	0.0
Eco81	River Wye - B	10.7	10.7	0.0	10.7	10.7	0.0
Eco82	River Wye - C	10.7	10.7	0.0	10.7	10.7	0.0
Eco83	River Wye - D	10.7	10.7	0.0	10.7	10.7	0.0
Eco84	River Wye - E	10.6	10.6	0.0	10.6	10.6	0.0