East Midlands Gateway
Phase 2 (EMG2)

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ENVIRONMENTAL STATEMENT

Volume 2 Technical Appendices

Appendix 8H

Ecological Receptor Impacts

July 2025

DRAFT
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The East Midlands Gateway Phase 2
and Highway Order 202X and The East Midlands Gateway
Rail Freight and Highway (Amendment) Order 202X

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Appendix 8h – Ecological Receptor Impacts

The following tables present results from the assessment of **EMG2 Project** impacts with regards to air quality on identified ecological sites.

The results are presented first for the 2028 'A' scenarios for each sensitive site, followed by the 2028 'B; scenarios.

Oakley Wood SSSI

Table 8h.1: Predicted 2028 Annual Mean NO_x Concentration Change (Oakley Wood SSSI)

Receptor ID	NO_x Annual Mean Concentration		PC Difference (µg/m^3)	% PC of Critical Level
	2028 Stage 1a (µg/m^3) PEC	2028 Stage 2a (µg/m^3) PEC		
MN.E1.R0	33.92	34.36	0.44	1.5%
MN.E1.R2	32.73	33.15	0.42	1.4%
MN.E1.R5	31.15	31.55	0.40	1.3%
MN.E1.R10	28.95	29.31	0.36	1.2%
MN.E1.R20	25.63	25.93	0.30	1.0%
MN.E1.R30	23.24	23.50	0.26	0.9%
MN.E1.R40	21.45	21.67	0.23	0.8%
MN.E1.R50	20.04	20.24	0.20	0.7%
MN.E1.R60	18.90	19.09	0.18	0.6%
MN.E1.R70	17.96	18.13	0.17	0.6%
MN.E1.R80	17.17	17.33	0.15	0.5%
MN.E1.R90	16.50	16.64	0.14	0.5%
MN.E1.R100	15.92	16.06	0.13	0.4%
MN.E1.R110	15.42	15.54	0.12	0.4%
MN.E1.R120	14.97	15.08	0.11	0.4%
MN.E1.R130	14.57	14.68	0.11	0.4%
MN.E1.R140	14.22	14.32	0.10	0.3%
MN.E1.R150	13.90	14.00	0.09	0.3%
MN.E1.R160	13.62	13.71	0.09	0.3%
MN.E1.R170	13.36	13.45	0.08	0.3%
MN.E1.R180	13.13	13.21	0.08	0.3%
MN.E1.R190	12.92	12.99	0.08	0.3%
MN.E1.R200	12.72	12.79	0.07	0.2%

Table 8h.2: Predicted 2028 24-hour Mean NO_x Concentration Change (Oakley Wood SSSI)

Receptor ID	NO_x 24-hour Mean Concentration		PC Difference (µg/m^3)	% PC of Critical Level
	2028 Stage 1a (µg/m^3) PC	2028 Stage 2a (µg/m^3) PC		
MN.E1.R0	16.33	16.62	0.29	0.4%
MN.E1.R2	15.55	15.83	0.27	0.4%
MN.E1.R5	14.53	14.78	0.26	0.3%
MN.E1.R10	13.09	13.32	0.23	0.3%
MN.E1.R20	10.93	11.12	0.20	0.3%
MN.E1.R30	9.37	9.54	0.17	0.2%
MN.E1.R40	8.20	8.35	0.15	0.2%
MN.E1.R50	7.28	7.42	0.13	0.2%
MN.E1.R60	6.54	6.66	0.12	0.2%
MN.E1.R70	5.93	6.04	0.11	0.1%
MN.E1.R80	5.42	5.52	0.10	0.1%
MN.E1.R90	4.98	5.07	0.09	0.1%
MN.E1.R100	4.60	4.69	0.09	0.1%
MN.E1.R110	4.27	4.35	0.08	0.1%
MN.E1.R120	3.98	4.05	0.07	0.1%
MN.E1.R130	3.72	3.79	0.07	0.1%
MN.E1.R140	3.49	3.56	0.07	0.1%
MN.E1.R150	3.29	3.35	0.06	0.1%
MN.E1.R160	3.10	3.16	0.06	0.1%
MN.E1.R170	2.93	2.99	0.05	0.1%
MN.E1.R180	2.78	2.83	0.05	0.1%
MN.E1.R190	2.64	2.69	0.05	0.1%
MN.E1.R200	2.51	2.56	0.05	0.1%

Table 8h.3: Predicted 2028 Annual Mean NH_3 Concentration Change (Oakley Wood SSSI)

Receptor ID	NH_3 Annual Mean Concentration		PC Difference (µg/m^3)	% PC of Critical Level
	2028 Stage 1a (µg/m^3) PEC	2028 Stage 2a (µg/m^3) PEC		
MN.E1.R0	2.38	2.44	0.06	6.04%

Receptor ID	NH_3 Annual Mean Concentration		PC Difference ($\mu g/m^3$)	% PC of Critical Level
	2028 Stage 1a ($\mu g/m^3$) PEC	2028 Stage 2a ($\mu g/m^3$) PEC		
MN.E1.R2	2.26	2.32	0.06	5.75%
MN.E1.R5	2.11	2.16	0.05	5.37%
MN.E1.R10	1.90	1.94	0.05	4.84%
MN.E1.R20	1.58	1.62	0.04	4.04%
MN.E1.R30	1.35	1.38	0.03	3.46%
MN.E1.R40	1.18	1.21	0.03	3.03%
MN.E1.R50	1.04	1.07	0.03	2.69%
MN.E1.R60	0.94	0.96	0.02	2.42%
MN.E1.R70	0.85	0.87	0.02	2.19%
MN.E1.R80	0.77	0.79	0.02	2.00%
MN.E1.R90	0.71	0.73	0.02	1.84%
MN.E1.R100	0.66	0.67	0.02	1.70%
MN.E1.R110	0.61	0.62	0.02	1.57%
MN.E1.R120	0.57	0.58	0.01	1.47%
MN.E1.R130	0.53	0.54	0.01	1.37%
MN.E1.R140	0.50	0.51	0.01	1.29%
MN.E1.R150	0.47	0.48	0.01	1.21%
MN.E1.R160	0.44	0.45	0.01	1.14%
MN.E1.R170	0.42	0.43	0.01	1.08%
MN.E1.R180	0.40	0.41	0.01	1.03%
MN.E1.R190	0.38	0.39	0.01	0.98%
MN.E1.R200	0.36	0.37	0.01	0.93%

Table 8h.4: Predicted 2028 Total Acid Deposition (Oakley Wood SSSI)

Receptor ID	Total Acid Deposition		PC Difference (kgN/ha/yr)	% PC of Critical Load
	2028 Stage 1a (kgN/ha/yr) PEC	2028 Stage 2a (kgN/ha/yr) PEC		
MN.E1.R0	2.39	2.39	0.01	2.4%
MN.E1.R2	2.37	2.38	0.00	2.3%
MN.E1.R5	2.36	2.36	0.00	2.1%

Receptor ID	Total Acid Deposition		PC Difference (kgN/ha/yr)	% PC of Critical Load
	2028 Stage 1a (kgN/ha/yr) PEC	2028 Stage 2a (kgN/ha/yr) PEC		
MN.E1.R10	2.33	2.34	0.00	2.0%
MN.E1.R20	2.30	2.30	0.00	1.7%
MN.E1.R30	2.27	2.27	0.00	1.5%
MN.E1.R40	2.25	2.25	0.00	1.3%
MN.E1.R50	2.23	2.23	0.00	1.1%
MN.E1.R60	2.22	2.22	0.00	1.0%
MN.E1.R70	2.21	2.21	0.00	1.0%
MN.E1.R80	2.20	2.20	0.00	0.9%
MN.E1.R90	2.19	2.19	0.00	0.8%
MN.E1.R100	2.18	2.19	0.00	0.8%
MN.E1.R110	2.18	2.18	0.00	0.7%
MN.E1.R120	2.17	2.17	0.00	0.7%
MN.E1.R130	2.17	2.17	0.00	0.6%
MN.E1.R140	2.16	2.17	0.00	0.6%
MN.E1.R150	2.16	2.16	0.00	0.5%
MN.E1.R160	2.16	2.16	0.00	0.5%
MN.E1.R170	2.15	2.16	0.00	0.6%
MN.E1.R180	2.15	2.15	0.00	0.5%
MN.E1.R190	2.15	2.15	0.00	0.4%
MN.E1.R200	2.15	2.15	0.00	0.4%

Table 8h.5: Predicted 2028 Total Nitrogen Deposition (Oakley Wood SSSI)

Receptor ID	Total Nitrogen Deposition		PC Difference (keq ha^{-1} $year^{1}$)	% PC of Critical Load
	2028 Stage 1a (keq ha/ year) PEC	2028 Stage 2a (keq ha/ year) PEC		
MN.E1.R0	50.07	50.59	0.53	3.5%
MN.E1.R2	49.02	49.52	0.50	3.3%
MN.E1.R5	47.64	48.11	0.47	3.1%
MN.E1.R10	45.71	46.13	0.42	2.8%
MN.E1.R20	42.79	43.15	0.36	2.4%
MN.E1.R30	40.70	41.01	0.30	2.0%
MN.E1.R40	39.13	39.40	0.27	1.8%
MN.E1.R50	37.90	38.13	0.24	1.6%
MN.E1.R60	36.91	37.12	0.21	1.4%
MN.E1.R70	36.08	36.28	0.19	1.3%
MN.E1.R80	35.39	35.57	0.18	1.2%
MN.E1.R90	34.81	34.97	0.16	1.1%
MN.E1.R100	34.31	34.46	0.15	1.0%
MN.E1.R110	33.87	34.01	0.14	0.9%
MN.E1.R120	33.47	33.61	0.13	0.9%
MN.E1.R130	33.13	33.25	0.12	0.8%
MN.E1.R140	32.83	32.94	0.11	0.8%
MN.E1.R150	32.55	32.66	0.11	0.7%
MN.E1.R160	32.31	32.41	0.10	0.7%
MN.E1.R170	32.08	32.18	0.10	0.7%
MN.E1.R180	31.89	31.98	0.09	0.6%
MN.E1.R190	31.71	31.79	0.08	0.6%
MN.E1.R200	31.53	31.61	0.08	0.5%

Tonge Gorse Ancient & Semi Natural Woodland

Table 8h.6: Predicted 2028 Annual Mean NO_x Concentration Change (Tonge Gorse)

Receptor ID	NO_x Annual Mean Concentration		PC Difference (µg/m^3)	% PC of Critical Level
	2028 Stage 1a (µg/m^3) PEC	2028 Stage 2a (µg/m^3) PEC		
AB.E2.R0	35.29	36.76	1.47	4.9%
AB.E2.R2	35.04	36.45	1.41	4.7%
AB.E2.R5	34.56	35.90	1.34	4.5%
AB.E2.R10	33.57	34.80	1.24	4.1%
AB.E2.R20	31.42	32.50	1.08	3.6%
AB.E2.R30	29.54	30.52	0.97	3.2%
AB.E2.R40	28.05	28.97	0.92	3.1%
AB.E2.R50	27.08	28.01	0.93	3.1%
AB.E2.R60	26.92	27.97	1.05	3.5%
AB.E3.R0	23.30	23.18	-0.12	-0.4%
AB.E3.R2	22.65	22.55	-0.10	-0.3%
AB.E3.R5	21.86	21.79	-0.08	-0.3%
AB.E3.R10	20.84	20.81	-0.03	-0.1%
AB.E3.R20	19.46	19.50	0.04	0.1%
AB.E3.R30	18.50	18.59	0.09	0.3%
AB.E3.R40	17.79	17.92	0.13	0.4%
AB.E3.R50	17.21	17.37	0.15	0.5%
AB.E3.R60	16.73	16.90	0.17	0.6%
AB.E3.R70	16.31	16.50	0.19	0.6%
AB.E3.R80	15.95	16.14	0.19	0.6%
AB.E3.R90	15.63	15.82	0.20	0.7%
AB.E3.R100	15.33	15.53	0.20	0.7%
AB.E3.R110	15.07	15.26	0.20	0.7%
AB.E3.R120	14.82	15.02	0.19	0.6%
AB.E3.R130	14.60	14.79	0.19	0.6%
AB.E3.R140	14.39	14.57	0.19	0.6%

Receptor ID	NO_x Annual Mean Concentration		PC Difference (µg/m³)	% PC of Critical Level
	2028 Stage 1a (µg/m³) PEC	2028 Stage 2a (µg/m³) PEC		
AB.E3.R150	14.19	14.37	0.18	0.6%
AB.E3.R160	14.00	14.18	0.18	0.6%
AB.E3.R170	13.83	14.00	0.17	0.6%
AB.E3.R180	13.67	13.83	0.17	0.6%
AB.E3.R190	13.51	13.67	0.16	0.5%
AB.E3.R200	13.37	13.53	0.16	0.5%

Table 8h.7: Predicted 2028 24-hour Mean NO_x Concentration Change (Tonge Gorse)

Receptor ID	NO_x 24-hour Mean Concentration		PC Difference (µg/m³)	% PC of Critical Level
	2028 Stage 1a (µg/m³) PC	2028 Stage 2a (µg/m³) PC		
AB.E2.R0	6.68	7.09	0.40	0.5%
AB.E2.R2	6.62	7.01	0.39	0.5%
AB.E2.R5	6.50	6.87	0.37	0.5%
AB.E2.R10	6.25	6.59	0.34	0.5%
AB.E2.R20	5.70	6.00	0.30	0.4%
AB.E2.R30	5.23	5.49	0.27	0.4%
AB.E2.R40	4.85	5.10	0.25	0.3%
AB.E2.R50	4.60	4.85	0.25	0.3%
AB.E2.R60	4.56	4.84	0.28	0.4%
AB.E3.R0	3.64	3.61	-0.03	0.0%
AB.E3.R2	3.48	3.45	-0.03	0.0%
AB.E3.R5	3.28	3.26	-0.02	0.0%
AB.E3.R10	3.02	3.01	-0.01	0.0%
AB.E3.R20	2.67	2.68	0.01	0.0%
AB.E3.R30	2.43	2.45	0.02	0.0%
AB.E3.R40	2.25	2.28	0.03	0.0%
AB.E3.R50	2.10	2.14	0.04	0.1%
AB.E3.R60	1.98	2.02	0.04	0.1%
AB.E3.R70	1.87	1.92	0.05	0.1%

Receptor ID	NO_x 24-hour Mean Concentration		PC Difference ($\mu g/m^3$)	% PC of Critical Level
	2028 Stage 1a ($\mu g/m^3$) PC	2028 Stage 2a ($\mu g/m^3$) PC		
AB.E3.R80	1.78	1.83	0.05	0.1%
AB.E3.R90	1.70	1.75	0.05	0.1%
AB.E3.R100	1.63	1.68	0.05	0.1%
AB.E3.R110	1.56	1.61	0.05	0.1%
AB.E3.R120	1.50	1.55	0.05	0.1%
AB.E3.R130	1.44	1.49	0.05	0.1%
AB.E3.R140	1.38	1.43	0.05	0.1%
AB.E3.R150	1.33	1.38	0.05	0.1%
AB.E3.R160	1.29	1.33	0.05	0.1%
AB.E3.R170	1.24	1.29	0.04	0.1%
AB.E3.R180	1.20	1.25	0.04	0.1%
AB.E3.R190	1.16	1.21	0.04	0.1%
AB.E3.R200	1.13	1.17	0.04	0.1%

Table 8h.8: Predicted 2028 Annual Mean NH_3 Concentration Change (Tonge Gorse)

Receptor ID	NH_3 Annual Mean Concentration		PC Difference ($\mu g/m^3$)	% PC of Critical Level
	2028 Stage 1a ($\mu g/m^3$) PEC	2028 Stage 2a ($\mu g/m^3$) PEC		
AB.E2.R0	2.55	2.60	0.06	5.71%
AB.E2.R2	2.54	2.59	0.06	5.50%
AB.E2.R5	2.52	2.57	0.05	5.24%
AB.E2.R10	2.49	2.54	0.05	4.86%
AB.E2.R20	2.42	2.47	0.04	4.31%
AB.E2.R30	2.37	2.41	0.04	3.98%
AB.E2.R40	2.32	2.36	0.04	3.89%
AB.E2.R50	2.30	2.35	0.04	4.10%
AB.E2.R60	2.32	2.37	0.05	4.89%
AB.E3.R0	2.23	2.24	0.01	0.64%
AB.E3.R2	2.20	2.20	0.01	0.56%
AB.E3.R5	2.16	2.16	0.00	0.50%

Receptor ID	NH_3 Annual Mean Concentration		PC Difference ($\mu g/m^3$)	% PC of Critical Level
	2028 Stage 1a ($\mu g/m^3$) PEC	2028 Stage 2a ($\mu g/m^3$) PEC		
AB.E3.R10	2.11	2.11	0.00	0.48%
AB.E3.R20	2.04	2.05	0.01	0.53%
AB.E3.R30	2.00	2.00	0.01	0.59%
AB.E3.R40	1.97	1.97	0.01	0.64%
AB.E3.R50	1.94	1.95	0.01	0.68%
AB.E3.R60	1.92	1.93	0.01	0.72%
AB.E3.R70	1.90	1.91	0.01	0.74%
AB.E3.R80	1.89	1.90	0.01	0.76%
AB.E3.R90	1.88	1.89	0.01	0.76%
AB.E3.R100	1.87	1.88	0.01	0.76%
AB.E3.R110	1.86	1.87	0.01	0.75%
AB.E3.R120	1.85	1.86	0.01	0.73%
AB.E3.R130	1.84	1.85	0.01	0.71%
AB.E3.R140	1.83	1.84	0.01	0.70%
AB.E3.R150	1.83	1.83	0.01	0.68%
AB.E3.R160	1.82	1.83	0.01	0.66%
AB.E3.R170	1.81	1.82	0.01	0.64%
AB.E3.R180	1.81	1.82	0.01	0.62%
AB.E3.R190	1.80	1.81	0.01	0.60%
AB.E3.R200	1.80	1.80	0.01	0.58%

Table 8h.9: Predicted 2028 Total Acid Deposition (Tonge Gorse)

Receptor ID	Total Acid Deposition		PC Difference (kgN/ha/yr)	% PC of Critical Load
	2028 Stage 1a (kgN/ha/yr) PEC	2028 Stage 2a (kgN/ha/yr) PEC		
AB.E2.R0	2.35	2.36	0.01	6.4%
AB.E2.R2	2.34	2.36	0.01	6.3%
AB.E2.R5	2.34	2.35	0.01	5.9%
AB.E2.R10	2.33	2.34	0.01	5.5%
AB.E2.R20	2.31	2.32	0.01	4.8%

Receptor ID	Total Acid Deposition		PC Difference (kgN/ha/yr)	% PC of Critical Load
	2028 Stage 1a (kgN/ha/yr) PEC	2028 Stage 2a (kgN/ha/yr) PEC		
AB.E2.R30	2.29	2.30	0.01	4.4%
AB.E2.R40	2.28	2.29	0.01	4.2%
AB.E2.R50	2.27	2.28	0.01	4.3%
AB.E2.R60	2.27	2.28	0.01	4.9%
AB.E3.R0	2.23	2.23	0.00	-0.5%
AB.E3.R2	2.23	2.23	0.00	-0.4%
AB.E3.R5	2.22	2.22	0.00	-0.3%
AB.E3.R10	2.21	2.21	0.00	-0.1%
AB.E3.R20	2.19	2.19	0.00	0.2%
AB.E3.R30	2.18	2.18	0.00	0.4%
AB.E3.R40	2.17	2.18	0.00	0.6%
AB.E3.R50	2.17	2.17	0.00	0.7%
AB.E3.R60	2.16	2.17	0.00	0.8%
AB.E3.R70	2.16	2.16	0.00	0.9%
AB.E3.R80	2.16	2.16	0.00	0.9%
AB.E3.R90	2.15	2.15	0.00	1.0%
AB.E3.R100	2.15	2.15	0.00	1.0%
AB.E3.R110	2.15	2.15	0.00	1.0%
AB.E3.R120	2.14	2.15	0.00	0.9%
AB.E3.R130	2.14	2.14	0.00	0.9%
AB.E3.R140	2.14	2.14	0.00	0.9%
AB.E3.R150	2.14	2.14	0.00	0.9%
AB.E3.R160	2.13	2.14	0.00	0.8%
AB.E3.R170	2.13	2.13	0.00	0.9%
AB.E3.R180	2.13	2.13	0.00	0.8%
AB.E3.R190	2.13	2.13	0.00	0.8%
AB.E3.R200	2.13	2.13	0.00	0.8%

Table 8h.10: Predicted 2028 Total Nitrogen Deposition (Tonge Gorse)

Receptor ID	Total Nitrogen Deposition		PC Difference (keq ha^{-1} $year^{1}$)	% PC of Critical Load
	2028 Stage 1a (keq ha/ year) PEC	2028 Stage 2a (keq ha/ year) PEC		
AB.E2.R0	38.68	39.30	0.62	6.2%
AB.E2.R2	38.57	39.17	0.60	6.0%
AB.E2.R5	38.38	38.95	0.57	5.7%
AB.E2.R10	38.01	38.54	0.53	5.3%
AB.E2.R20	37.25	37.71	0.47	4.7%
AB.E2.R30	36.57	37.00	0.43	4.3%
AB.E2.R40	36.05	36.47	0.42	4.2%
AB.E2.R50	35.77	36.21	0.44	4.4%
AB.E2.R60	35.90	36.42	0.51	5.1%
AB.E3.R0	34.70	34.73	0.03	0.3%
AB.E3.R2	34.36	34.39	0.03	0.3%
AB.E3.R5	33.95	33.97	0.03	0.3%
AB.E3.R10	33.42	33.45	0.03	0.3%
AB.E3.R20	32.71	32.76	0.05	0.5%
AB.E3.R30	32.24	32.30	0.06	0.6%
AB.E3.R40	31.90	31.97	0.07	0.7%
AB.E3.R50	31.63	31.71	0.07	0.7%
AB.E3.R60	31.41	31.49	0.08	0.8%
AB.E3.R70	31.23	31.31	0.08	0.8%
AB.E3.R80	31.07	31.15	0.08	0.8%
AB.E3.R90	30.93	31.01	0.09	0.9%
AB.E3.R100	30.80	30.89	0.09	0.9%
AB.E3.R110	30.69	30.78	0.09	0.9%
AB.E3.R120	30.59	30.67	0.08	0.8%
AB.E3.R130	30.50	30.58	0.08	0.8%
AB.E3.R140	30.41	30.49	0.08	0.8%
AB.E3.R150	30.33	30.41	0.08	0.8%
AB.E3.R160	30.25	30.33	0.07	0.7%
AB.E3.R170	30.18	30.25	0.08	0.8%

Receptor ID	Total Nitrogen Deposition		PC Difference (keq ha^{-1} $year^{1}$)	% PC of Critical Load
	2028 Stage 1a (keq ha/ year) PEC	2028 Stage 2a (keq ha/ year) PEC		
AB.E3.R180	30.11	30.19	0.07	0.7%
AB.E3.R190	30.05	30.12	0.07	0.7%
AB.E3.R200	29.99	30.06	0.07	0.7%

Lount Meadows SSSI

Table 8h.11: Predicted 2028 Annual Mean NO_x Concentration Change (Lount Meadows SSSI)

Receptor ID	NO_x Annual Mean Concentration		PC Difference (µg/m^3)	% PC of Critical Level
	2028 Stage 1a (µg/m^3) PEC	2028 Stage 2a (µg/m^3) PEC		
TK.E3.R0	40.54	41.03	0.49	1.6%
TK.E3.R2	38.85	39.32	0.46	1.5%
TK.E3.R5	36.62	37.05	0.43	1.4%
TK.E3.R10	33.56	33.94	0.38	1.3%
TK.E3.R20	29.01	29.32	0.31	1.0%
TK.E3.R30	25.80	26.06	0.26	0.9%
TK.E3.R40	23.41	23.64	0.23	0.8%
TK.E3.R50	21.55	21.75	0.20	0.7%
TK.E3.R60	20.06	20.23	0.17	0.6%
TK.E3.R70	18.83	18.99	0.16	0.5%
TK.E3.R80	17.81	17.95	0.14	0.5%
TK.E3.R90	16.95	17.08	0.13	0.4%
TK.E3.R100	16.21	16.33	0.12	0.4%
TK.E3.R110	15.57	15.68	0.11	0.4%
TK.E3.R120	15.01	15.11	0.10	0.3%
TK.E3.R130	14.52	14.61	0.09	0.3%
TK.E3.R140	14.09	14.17	0.08	0.3%
TK.E3.R150	13.70	13.78	0.08	0.3%

Table 8h.12: Predicted 2028 24-hour Mean NO_x Concentration Change (Lount Meadows SSSI)

Receptor ID	NO_x 24-hour Mean Concentration		PC Difference (µg/m^3)	% PC of Critical Level
	2028 Stage 1a (µg/m^3) PC	2028 Stage 2a (µg/m^3) PC		
TK.E3.R0	8.21	8.34	0.12	0.2%
TK.E3.R2	7.78	7.90	0.12	0.2%
TK.E3.R5	7.21	7.32	0.11	0.1%
TK.E3.R10	6.43	6.53	0.10	0.1%

Receptor ID	NO_x 24-hour Mean Concentration		PC Difference ($\mu g/m^3$)	% PC of Critical Level
	2028 Stage 1a ($\mu g/m^3$) PC	2028 Stage 2a ($\mu g/m^3$) PC		
TK.E3.R20	5.28	5.35	0.08	0.1%
TK.E3.R30	4.46	4.53	0.07	0.1%
TK.E3.R40	3.85	3.91	0.06	0.1%
TK.E3.R50	3.38	3.43	0.05	0.1%
TK.E3.R60	3.00	3.04	0.04	0.1%
TK.E3.R70	2.68	2.72	0.04	0.1%
TK.E3.R80	2.42	2.46	0.04	0.0%
TK.E3.R90	2.20	2.24	0.03	0.0%
TK.E3.R100	2.02	2.05	0.03	0.0%
TK.E3.R110	1.85	1.88	0.03	0.0%
TK.E3.R120	1.71	1.74	0.03	0.0%
TK.E3.R130	1.59	1.61	0.02	0.0%
TK.E3.R140	1.47	1.50	0.02	0.0%
TK.E3.R150	1.38	1.40	0.02	0.0%

Table 8h.13: Predicted 2028 Annual Mean NH_3 Concentration Change (Lount Meadows SSSI)

Receptor ID	NH_3 Annual Mean Concentration		PC Difference ($\mu g/m^3$)	% PC of Critical Level
	2028 Stage 1a ($\mu g/m^3$) PEC	2028 Stage 2a ($\mu g/m^3$) PEC		
TK.E3.R0	3.02	3.06	0.04	1.42%
TK.E3.R2	2.96	3.00	0.04	1.34%
TK.E3.R5	2.88	2.91	0.04	1.24%
TK.E3.R10	2.77	2.80	0.03	1.10%
TK.E3.R20	2.60	2.63	0.03	0.89%
TK.E3.R30	2.49	2.51	0.02	0.75%
TK.E3.R40	2.40	2.42	0.02	0.64%
TK.E3.R50	2.34	2.35	0.02	0.56%
TK.E3.R60	2.28	2.30	0.01	0.50%
TK.E3.R70	2.24	2.25	0.01	0.44%
TK.E3.R80	2.20	2.22	0.01	0.40%

Receptor ID	NH_3 Annual Mean Concentration		PC Difference ($\mu g/m^3$)	% PC of Critical Level
	2028 Stage 1a ($\mu g/m^3$) PEC	2028 Stage 2a ($\mu g/m^3$) PEC		
TK.E3.R90	2.17	2.18	0.01	0.36%
TK.E3.R100	2.15	2.16	0.01	0.33%
TK.E3.R110	2.12	2.13	0.01	0.30%
TK.E3.R120	2.10	2.11	0.01	0.28%
TK.E3.R130	2.09	2.09	0.01	0.26%
TK.E3.R140	2.07	2.08	0.01	0.24%
TK.E3.R150	2.06	2.07	0.01	0.22%

Table 8h.14: Predicted 2028 Total Acid Deposition (Lount Meadows SSSI)

Receptor ID	Total Acid Deposition		PC Difference (kgN/ha/yr)	% PC of Critical Load
	2028 Stage 1a (kgN/ha/yr) PEC	2028 Stage 2a (kgN/ha/yr) PEC		
TK.E3.R0	2.30	2.30	0.00	0.1%
TK.E3.R2	2.30	2.30	0.00	0.0%
TK.E3.R5	2.29	2.29	0.00	0.0%
TK.E3.R10	2.27	2.27	0.00	0.0%
TK.E3.R20	2.25	2.25	0.00	0.0%
TK.E3.R30	2.23	2.23	0.00	0.0%
TK.E3.R40	2.22	2.22	0.00	0.0%
TK.E3.R50	2.21	2.21	0.00	0.0%
TK.E3.R60	2.20	2.20	0.00	0.0%
TK.E3.R70	2.20	2.20	0.00	0.0%
TK.E3.R80	2.19	2.19	0.00	0.0%
TK.E3.R90	2.19	2.19	0.00	0.0%
TK.E3.R100	2.18	2.18	0.00	0.0%
TK.E3.R110	2.18	2.18	0.00	0.0%
TK.E3.R120	2.18	2.18	0.00	0.0%
TK.E3.R130	2.17	2.17	0.00	0.0%
TK.E3.R140	2.17	2.17	0.00	0.0%
TK.E3.R150	2.17	2.17	0.00	0.0%

Table 8h.15: Predicted 2028 Total Nitrogen Deposition (Lount Meadows SSSI)

Receptor ID	Total Nitrogen Deposition		PC Difference (keq ha^{-1} $year^{1}$)	% PC of Critical Load
	2028 Stage 1a (keq ha/ year) PEC	2028 Stage 2a (keq ha/ year) PEC		
TK.E3.R0	37.72	37.94	0.22	2.2%
TK.E3.R2	37.30	37.51	0.21	2.1%
TK.E3.R5	36.75	36.94	0.19	1.9%
TK.E3.R10	35.99	36.16	0.17	1.7%
TK.E3.R20	34.86	35.00	0.14	1.4%
TK.E3.R30	34.05	34.17	0.12	1.2%
TK.E3.R40	33.45	33.55	0.10	1.0%
TK.E3.R50	32.98	33.07	0.09	0.9%
TK.E3.R60	32.61	32.68	0.08	0.8%
TK.E3.R70	32.30	32.37	0.07	0.7%
TK.E3.R80	32.04	32.10	0.06	0.6%
TK.E3.R90	31.82	31.88	0.06	0.6%
TK.E3.R100	31.63	31.68	0.05	0.5%
TK.E3.R110	31.47	31.52	0.05	0.5%
TK.E3.R120	31.33	31.37	0.04	0.4%
TK.E3.R130	31.20	31.24	0.04	0.4%
TK.E3.R140	31.10	31.13	0.04	0.4%
TK.E3.R150	31.00	31.03	0.03	0.3%

Breedon Cloud Wood and Quarry SSSI

Table 8h.16: Predicted 2028 Annual Mean NO_x Concentration Change (Breedon and Cloud Wood Quarry)

Receptor ID	NO_x Annual Mean Concentration		PC Difference (µg/m^3)	% PC of Critical Level
	2028 Stage 1a (µg/m^3) PEC	2028 Stage 2a (µg/m^3) PEC		
TK.E4.R0	11.66	12.89	1.23	4.1%
TK.E4.R2	11.28	12.37	1.09	3.6%
TK.E4.R5	10.85	11.79	0.94	3.1%
TK.E4.R10	10.35	11.11	0.76	2.5%
TK.E4.R20	9.75	10.30	0.55	1.8%
TK.E4.R30	9.41	9.84	0.43	1.4%
TK.E4.R40	9.17	9.53	0.36	1.2%
TK.E4.R50	9.01	9.31	0.30	1.0%
TK.E4.R60	8.89	9.15	0.26	0.9%
TK.E4.R70	8.79	9.02	0.23	0.8%
TK.E4.R80	8.71	8.92	0.21	0.7%
TK.E4.R90	8.65	8.84	0.19	0.6%
TK.E4.R100	8.59	8.76	0.17	0.6%
TK.E4.R110	8.55	8.70	0.16	0.5%
TK.E4.R120	8.51	8.65	0.14	0.5%
TK.E4.R130	8.47	8.61	0.13	0.4%
TK.E4.R140	8.44	8.57	0.12	0.4%
TK.E4.R150	8.42	8.53	0.11	0.4%
TK.E4.R160	8.40	8.50	0.11	0.4%
TK.E4.R170	8.37	8.48	0.10	0.3%
TK.E4.R180	8.36	8.45	0.09	0.3%
TK.E4.R190	8.34	8.43	0.09	0.3%
TK.E4.R200	8.33	8.41	0.08	0.3%

Table 8h.17: Predicted 2028 24-hour Mean NO_x Concentration Change (Breedon and Cloud Wood Quarry)

Receptor ID	NO_x 24-hour Mean Concentration		PC Difference (µg/m^3)	% PC of Critical Level
	2028 Stage 1a (µg/m^3) PC	2028 Stage 2a (µg/m^3) PC		
TK.E4.R0	0.97	1.29	0.89	1.2%
TK.E4.R2	0.87	1.15	0.80	1.1%
TK.E4.R5	0.76	1.00	0.69	0.9%
TK.E4.R10	0.63	0.83	0.57	0.8%
TK.E4.R20	0.48	0.62	0.43	0.6%
TK.E4.R30	0.39	0.50	0.35	0.5%
TK.E4.R40	0.33	0.42	0.29	0.4%
TK.E4.R50	0.29	0.37	0.26	0.3%
TK.E4.R60	0.26	0.33	0.23	0.3%
TK.E4.R70	0.23	0.29	0.20	0.3%
TK.E4.R80	0.21	0.27	0.19	0.2%
TK.E4.R90	0.20	0.25	0.17	0.2%
TK.E4.R100	0.18	0.23	0.16	0.2%
TK.E4.R110	0.17	0.21	0.15	0.2%
TK.E4.R120	0.16	0.20	0.14	0.2%
TK.E4.R130	0.15	0.19	0.13	0.2%
TK.E4.R140	0.15	0.18	0.12	0.2%
TK.E4.R150	0.14	0.17	0.12	0.2%
TK.E4.R160	0.13	0.16	0.11	0.1%
TK.E4.R170	0.13	0.15	0.11	0.1%
TK.E4.R180	0.12	0.15	0.10	0.1%
TK.E4.R190	0.12	0.14	0.10	0.1%
TK.E4.R200	0.11	0.14	0.10	0.1%

Table 8h.18: Predicted 2028 Annual Mean NH_3 Concentration Change (Breedon and Cloud Wood Quarry)

Receptor ID	NH_3 Annual Mean Concentration		PC Difference (µg/m^3)	% PC of Critical Level
	2028 Stage 1a (µg/m^3) PEC	2028 Stage 2a (µg/m^3) PEC		
TK.E4.R0	2.10	2.23	0.13	13.17%

Receptor ID	NH_3 Annual Mean Concentration		PC Difference (µg/m^3)	% PC of Critical Level
	2028 Stage 1a (µg/m^3) PEC	2028 Stage 2a (µg/m^3) PEC		
TK.E4.R2	2.06	2.18	0.12	11.66%
TK.E4.R5	2.02	2.12	0.10	9.96%
TK.E4.R10	1.97	2.05	0.08	8.01%
TK.E4.R20	1.90	1.96	0.06	5.71%
TK.E4.R30	1.87	1.91	0.04	4.43%
TK.E4.R40	1.84	1.88	0.04	3.59%
TK.E4.R50	1.82	1.85	0.03	3.02%
TK.E4.R60	1.81	1.84	0.03	2.59%
TK.E4.R70	1.80	1.82	0.02	2.26%
TK.E4.R80	1.79	1.81	0.02	2.01%
TK.E4.R90	1.78	1.80	0.02	1.80%
TK.E4.R100	1.78	1.79	0.02	1.63%
TK.E4.R110	1.77	1.79	0.01	1.48%
TK.E4.R120	1.77	1.78	0.01	1.36%
TK.E4.R130	1.77	1.78	0.01	1.25%
TK.E4.R140	1.76	1.77	0.01	1.16%
TK.E4.R150	1.76	1.77	0.01	1.08%
TK.E4.R160	1.76	1.77	0.01	1.01%
TK.E4.R170	1.76	1.76	0.01	0.94%
TK.E4.R180	1.75	1.76	0.01	0.88%
TK.E4.R190	1.75	1.76	0.01	0.83%
TK.E4.R200	1.75	1.76	0.01	0.79%

Table 8h.19: Predicted 2028 Total Acid Deposition (Breedon and Cloud Wood Quarry)

Receptor ID	Total Acid Deposition		PC Difference (kgN/ha/yr)	% PC of Critical Load
	2028 Stage 1a (kgN/ha/yr) PEC	2028 Stage 2a (kgN/ha/yr) PEC		
TK.E4.R0	2.16	2.17	0.02	10.6%
TK.E4.R2	2.15	2.17	0.01	9.5%
TK.E4.R5	2.15	2.16	0.01	8.1%

Receptor ID	Total Acid Deposition		PC Difference (kgN/ha/yr)	% PC of Critical Load
	2028 Stage 1a (kgN/ha/yr) PEC	2028 Stage 2a (kgN/ha/yr) PEC		
TK.E4.R10	2.14	2.15	0.01	6.6%
TK.E4.R20	2.13	2.14	0.01	4.7%
TK.E4.R30	2.13	2.13	0.01	3.8%
TK.E4.R40	2.13	2.13	0.00	3.1%
TK.E4.R50	2.12	2.13	0.00	2.6%
TK.E4.R60	2.12	2.13	0.00	2.3%
TK.E4.R70	2.12	2.12	0.00	1.9%
TK.E4.R80	2.12	2.12	0.00	1.7%
TK.E4.R90	2.12	2.12	0.00	1.6%
TK.E4.R100	2.12	2.12	0.00	1.4%
TK.E4.R110	2.12	2.12	0.00	1.2%
TK.E4.R120	2.12	2.12	0.00	1.2%
TK.E4.R130	2.12	2.12	0.00	1.2%
TK.E4.R140	2.12	2.12	0.00	1.2%
TK.E4.R150	2.12	2.12	0.00	1.0%
TK.E4.R160	2.12	2.12	0.00	0.9%
TK.E4.R170	2.12	2.12	0.00	0.9%
TK.E4.R180	2.12	2.12	0.00	0.9%
TK.E4.R190	2.12	2.12	0.00	0.8%
TK.E4.R200	2.12	2.12	0.00	0.8%

Table 8h.20: Predicted 2028 Total Nitrogen Deposition (Breedon and Cloud Wood Quarry)

Receptor ID	Total Nitrogen Deposition		PC Difference (keq ha^{-1} $year^{1}$)	% PC of Critical Load
	2028 Stage 1a (keq ha/ year) PEC	2028 Stage 2a (keq ha/ year) PEC		
TK.E4.R0	32.02	33.22	1.20	8.0%
TK.E4.R2	31.67	32.73	1.06	7.1%
TK.E4.R5	31.26	32.17	0.91	6.1%
TK.E4.R10	30.78	31.52	0.73	4.9%
TK.E4.R20	30.21	30.73	0.52	3.5%

Receptor ID	Total Nitrogen Deposition		PC Difference (keq ha^{-1} $year^{1}$)	% PC of Critical Load
	2028 Stage 1a (keq ha/ year) PEC	2028 Stage 2a (keq ha/ year) PEC		
TK.E4.R30	29.86	30.27	0.41	2.7%
TK.E4.R40	29.63	29.97	0.33	2.2%
TK.E4.R50	29.47	29.75	0.28	1.9%
TK.E4.R60	29.35	29.59	0.24	1.6%
TK.E4.R70	29.26	29.46	0.21	1.4%
TK.E4.R80	29.18	29.36	0.19	1.2%
TK.E4.R90	29.12	29.28	0.17	1.1%
TK.E4.R100	29.07	29.22	0.15	1.0%
TK.E4.R110	29.02	29.16	0.14	0.9%
TK.E4.R120	28.99	29.11	0.13	0.8%
TK.E4.R130	28.95	29.07	0.12	0.8%
TK.E4.R140	28.92	29.03	0.11	0.7%
TK.E4.R150	28.90	29.00	0.10	0.7%
TK.E4.R160	28.88	28.97	0.09	0.6%
TK.E4.R170	28.86	28.94	0.09	0.6%
TK.E4.R180	28.84	28.92	0.08	0.6%
TK.E4.R190	28.82	28.90	0.08	0.5%
TK.E4.R200	28.81	28.88	0.08	0.5%

On-Site Veteran Trees and Off-Site Ancient Trees

Table 8h.21: Predicted 2028 Annual Mean NO_x Concentration Change (On-Site Veteran Trees and Off-Site Ancient Trees)

Receptor ID	NO_x Annual Mean Concentration		PC Difference (µg/m^3)	% PC of Critical Level
	2028 Stage 1a (µg/m^3) PEC	2028 Stage 2a (µg/m^3) PEC		
20002	20.34	22.56	2.22	7.4%
20008	11.13	11.13	0.00	0.0%
20009	11.08	11.08	0.00	0.0%
2000A	11.48	11.48	0.00	0.0%
2000B	11.11	11.11	0.00	0.0%
2000C	11.09	11.09	0.00	0.0%
2000D	11.15	11.15	0.00	0.0%
20012	11.14	11.14	0.00	0.0%
20013	11.02	11.02	0.00	0.0%

Table 8h.22: Predicted 2028 24-hour Mean NO_x Concentration Change (On-Site Veteran Trees and Off-Site Ancient Trees)

Receptor ID	NO_x 24-hour Mean Concentration		PC Difference (µg/m^3)	% PC of Critical Level
	2028 Stage 1a (µg/m^3) PC	2028 Stage 2a (µg/m^3) PC		
20002	2.19	2.76	0.58	0.8%
20008	0.22	0.22	0.00	0.0%
20009	0.17	0.17	0.00	0.0%
2000A	0.52	0.52	0.00	0.0%
2000B	0.20	0.20	0.00	0.0%
2000C	0.18	0.18	0.00	0.0%
2000D	0.24	0.24	0.00	0.0%
20012	0.23	0.23	0.00	0.0%
20013	0.12	0.12	0.00	0.0%

Table 8h.23: Predicted 2028 Annual Mean NH_3 Concentration Change (On-Site Veteran Trees and Off-Site Ancient Trees)

Receptor ID	NH_3 Annual Mean Concentration		PC Difference (µg/m^3)	% PC of Critical Level
	2028 Stage 1a (µg/m^3) PEC	2028 2b (µg/m^3) PEC		
20002	1.99	2.08	0.09	8.63%

Receptor ID	NH_3 Annual Mean Concentration		PC Difference ($\mu g/m^3$)	% PC of Critical Level
	2028 Stage 1a ($\mu g/m^3$) PEC	2028 2b ($\mu g/m^3$) PEC		
20008	1.68	1.68	0.00	-0.03%
20009	1.68	1.68	0.00	-0.02%
2000A	1.73	1.73	0.00	-0.07%
2000B	1.68	1.68	0.00	-0.02%
2000C	1.68	1.68	0.00	-0.02%
2000D	1.69	1.69	0.00	-0.03%
20012	1.69	1.69	0.00	-0.03%
20013	1.67	1.67	0.00	-0.01%

Table 8h.24: Predicted 2028 Total Acid Deposition (On-Site Veteran Trees and Off-Site Ancient Trees)

Receptor ID	Total Acid Deposition		PC Difference (kgN/ha/yr)	% PC of Critical Load
	2028 Stage 1a (kgN/ha/yr) PEC	2028 Stage 2a (kgN/ha/yr) PEC		
20002	2.17	2.19	0.02	10.7%
20008	2.08	2.08	0.00	0.0%
20009	2.08	2.08	0.00	0.0%
2000A	2.09	2.09	0.00	0.0%
2000B	2.08	2.08	0.00	0.0%
2000C	2.08	2.08	0.00	0.0%
2000D	2.08	2.08	0.00	0.0%
20012	2.08	2.08	0.00	0.0%
20013	2.08	2.08	0.00	0.0%

Table 8h.25: Predicted 2028 Total Nitrogen Deposition (On-Site Veteran Trees and Off-Site Ancient Trees)

Receptor ID	Total Nitrogen Deposition		PC Difference (keq ha^{-1} $year^{1}$)	% PC of Critical Load
	2028 Stage 1a (keq ha/ year) PEC	2028 Stage 2a (keq ha/ year) PEC		
20002	32.07	33.04	0.97	9.7%
20008	28.51	28.51	0.00	0.0%
20009	28.45	28.45	0.00	0.0%
2000A	28.94	28.93	-0.01	-0.1%

Receptor ID	Total Nitrogen Deposition		PC Difference (keq ha^{-1} $year^{1}$)	% PC of Critical Load
	2028 Stage 1a (keq ha/ year) PEC	2028 Stage 2a (keq ha/ year) PEC		
2000B	28.50	28.50	0.00	0.0%
2000C	28.46	28.46	0.00	0.0%
2000D	28.55	28.55	-0.01	0.0%
20012	28.52	28.52	0.00	0.0%
20013	28.38	28.38	0.00	0.0%

Oakley Wood SSSI

Table 8h.26: Predicted 2028 Annual Mean NO_x Concentration Change (Oakley Wood SSSI)

Receptor ID	NO_x Annual Mean Concentration		PC Difference (µg/m^3)	% PC of Critical Level
	2028 Stage 1b (µg/m^3) PEC	2028 Stage 2b (µg/m^3) PEC		
MN.E1.R0	33.73	34.17	0.44	1.5%
MN.E1.R2	32.54	32.97	0.42	1.4%
MN.E1.R5	30.97	31.37	0.40	1.3%
MN.E1.R10	28.79	29.15	0.36	1.2%
MN.E1.R20	25.49	25.79	0.30	1.0%
MN.E1.R30	23.12	23.38	0.26	0.9%
MN.E1.R40	21.34	21.57	0.23	0.8%
MN.E1.R50	19.94	20.14	0.21	0.7%
MN.E1.R60	18.81	19.00	0.19	0.6%
MN.E1.R70	17.88	18.05	0.17	0.6%
MN.E1.R80	17.10	17.25	0.15	0.5%
MN.E1.R90	16.43	16.58	0.14	0.5%
MN.E1.R100	15.86	15.99	0.13	0.4%
MN.E1.R110	15.36	15.48	0.12	0.4%
MN.E1.R120	14.91	15.03	0.11	0.4%
MN.E1.R130	14.52	14.63	0.11	0.4%
MN.E1.R140	14.17	14.27	0.10	0.3%
MN.E1.R150	13.86	13.95	0.09	0.3%
MN.E1.R160	13.58	13.66	0.09	0.3%
MN.E1.R170	13.32	13.40	0.08	0.3%
MN.E1.R180	13.09	13.17	0.08	0.3%
MN.E1.R190	12.88	12.95	0.08	0.3%
MN.E1.R200	12.68	12.75	0.07	0.2%

Table 8h.27: Predicted 2028 24-hour Mean NO_x Concentration Change (Oakley Wood SSSI)

Receptor ID	NO_x 24-hour Mean Concentration		PC Difference (µg/m^3)	% PC of Critical Level
	2028 Stage 1b (µg/m^3) PC	2028 Stage 2b (µg/m^3) PC		
MN.E1.R0	16.20	16.49	0.29	0.4%
MN.E1.R2	15.43	15.71	0.28	0.4%
MN.E1.R5	14.41	14.67	0.26	0.3%
MN.E1.R10	12.98	13.22	0.23	0.3%
MN.E1.R20	10.83	11.03	0.20	0.3%
MN.E1.R30	9.29	9.46	0.17	0.2%
MN.E1.R40	8.13	8.28	0.15	0.2%
MN.E1.R50	7.22	7.35	0.13	0.2%
MN.E1.R60	6.49	6.61	0.12	0.2%
MN.E1.R70	5.88	5.99	0.11	0.1%
MN.E1.R80	5.37	5.47	0.10	0.1%
MN.E1.R90	4.93	5.03	0.09	0.1%
MN.E1.R100	4.56	4.65	0.09	0.1%
MN.E1.R110	4.23	4.31	0.08	0.1%
MN.E1.R120	3.94	4.02	0.07	0.1%
MN.E1.R130	3.69	3.76	0.07	0.1%
MN.E1.R140	3.46	3.53	0.07	0.1%
MN.E1.R150	3.25	3.32	0.06	0.1%
MN.E1.R160	3.07	3.13	0.06	0.1%
MN.E1.R170	2.90	2.96	0.06	0.1%
MN.E1.R180	2.76	2.81	0.05	0.1%
MN.E1.R190	2.62	2.67	0.05	0.1%
MN.E1.R200	2.49	2.54	0.05	0.1%

Table 8h.28: Predicted 2028 Annual Mean NH_3 Concentration Change (Oakley Wood SSSI)

Receptor ID	NH_3 Annual Mean Concentration		PC Difference (µg/m^3)	% PC of Critical Level
	2028 Stage 1b (µg/m^3) PEC	2028 Stage 2b (µg/m^3) PEC		
MN.E1.R0	3.96	4.02	0.06	6.04%

Receptor ID	NH_3 Annual Mean Concentration		PC Difference ($\mu g/m^3$)	% PC of Critical Level
	2028 Stage 1b ($\mu g/m^3$) PEC	2028 Stage 2b ($\mu g/m^3$) PEC		
MN.E1.R2	3.85	3.91	0.06	5.75%
MN.E1.R5	3.70	3.75	0.05	5.37%
MN.E1.R10	3.49	3.54	0.05	4.84%
MN.E1.R20	3.17	3.21	0.04	4.04%
MN.E1.R30	2.95	2.98	0.03	3.46%
MN.E1.R40	2.78	2.81	0.03	3.03%
MN.E1.R50	2.65	2.68	0.03	2.69%
MN.E1.R60	2.54	2.57	0.02	2.42%
MN.E1.R70	2.45	2.48	0.02	2.19%
MN.E1.R80	2.38	2.40	0.02	2.00%
MN.E1.R90	2.32	2.34	0.02	1.84%
MN.E1.R100	2.27	2.28	0.02	1.70%
MN.E1.R110	2.22	2.23	0.02	1.58%
MN.E1.R120	2.18	2.19	0.01	1.47%
MN.E1.R130	2.14	2.15	0.01	1.37%
MN.E1.R140	2.11	2.12	0.01	1.29%
MN.E1.R150	2.08	2.09	0.01	1.21%
MN.E1.R160	2.05	2.06	0.01	1.14%
MN.E1.R170	2.03	2.04	0.01	1.08%
MN.E1.R180	2.01	2.02	0.01	1.03%
MN.E1.R190	1.99	2.00	0.01	0.98%
MN.E1.R200	1.97	1.98	0.01	0.93%

Table 8h.29: Predicted 2028 Total Acid Deposition (Oakley Wood SSSI)

Receptor ID	Total Acid Deposition		PC Difference (kgN/ha/yr)	% PC of Critical Load
	2028 Stage 1b (kgN/ha/yr) PEC	2028 Stage 2b (kgN/ha/yr) PEC		
MN.E1.R0	2.38	2.39	0.01	2.4%
MN.E1.R2	2.37	2.38	0.00	2.3%
MN.E1.R5	2.35	2.36	0.00	2.2%

Receptor ID	Total Acid Deposition		PC Difference (kgN/ha/yr)	% PC of Critical Load
	2028 Stage 1b (kgN/ha/yr) PEC	2028 Stage 2b (kgN/ha/yr) PEC		
MN.E1.R10	2.33	2.34	0.00	2.0%
MN.E1.R20	2.29	2.30	0.00	1.6%
MN.E1.R30	2.27	2.27	0.00	1.5%
MN.E1.R40	2.25	2.25	0.00	1.3%
MN.E1.R50	2.23	2.23	0.00	1.2%
MN.E1.R60	2.22	2.22	0.00	1.0%
MN.E1.R70	2.21	2.21	0.00	1.0%
MN.E1.R80	2.20	2.20	0.00	1.0%
MN.E1.R90	2.19	2.19	0.00	0.8%
MN.E1.R100	2.18	2.19	0.00	0.8%
MN.E1.R110	2.18	2.18	0.00	0.7%
MN.E1.R120	2.17	2.17	0.00	0.6%
MN.E1.R130	2.17	2.17	0.00	0.6%
MN.E1.R140	2.16	2.17	0.00	0.6%
MN.E1.R150	2.16	2.16	0.00	0.5%
MN.E1.R160	2.16	2.16	0.00	0.5%
MN.E1.R170	2.15	2.15	0.00	0.6%
MN.E1.R180	2.15	2.15	0.00	0.5%
MN.E1.R190	2.15	2.15	0.00	0.5%
MN.E1.R200	2.15	2.15	0.00	0.5%

Table 8h.30: Predicted 2028 Total Nitrogen Deposition (Oakley Wood SSSI)

Receptor ID	Total Nitrogen Deposition		PC Difference (keq ha^{-1} $year^{1}$)	% PC of Critical Load
	2028 Stage 1b (keq ha/ year) PEC	2028 Stage 2b (keq ha/ year) PEC		
MN.E1.R0	49.78	50.31	0.53	3.5%
MN.E1.R2	48.75	49.25	0.50	3.3%
MN.E1.R5	47.38	47.85	0.47	3.1%
MN.E1.R10	45.48	45.90	0.42	2.8%
MN.E1.R20	42.60	42.95	0.35	2.4%
MN.E1.R30	40.53	40.84	0.30	2.0%
MN.E1.R40	38.98	39.25	0.27	1.8%
MN.E1.R50	37.76	38.00	0.24	1.6%
MN.E1.R60	36.79	37.00	0.21	1.4%
MN.E1.R70	35.98	36.17	0.19	1.3%
MN.E1.R80	35.29	35.47	0.18	1.2%
MN.E1.R90	34.72	34.88	0.16	1.1%
MN.E1.R100	34.22	34.37	0.15	1.0%
MN.E1.R110	33.79	33.93	0.14	0.9%
MN.E1.R120	33.40	33.53	0.13	0.9%
MN.E1.R130	33.06	33.18	0.12	0.8%
MN.E1.R140	32.76	32.88	0.11	0.8%
MN.E1.R150	32.49	32.60	0.11	0.7%
MN.E1.R160	32.25	32.35	0.10	0.7%
MN.E1.R170	32.03	32.13	0.10	0.7%
MN.E1.R180	31.84	31.93	0.09	0.6%
MN.E1.R190	31.66	31.74	0.09	0.6%
MN.E1.R200	31.49	31.57	0.08	0.6%

Tonge Gorse Ancient & Semi Natural Woodland

Table 8h.31: Predicted 2028 Annual Mean NO_x Concentration Change (Tonge Gorse)

Receptor ID	NO_x Annual Mean Concentration		PC Difference (µg/m^3)	% PC of Critical Level
	2028 Stage 1b (µg/m^3) PEC	2028 Stage 2b (µg/m^3) PEC		
AB.E2.R0	34.23	35.71	1.48	4.9%
AB.E2.R2	33.99	35.43	1.44	4.8%
AB.E2.R5	33.53	34.91	1.37	4.6%
AB.E2.R10	32.59	33.87	1.28	4.3%
AB.E2.R20	30.53	31.68	1.15	3.8%
AB.E2.R30	28.72	29.79	1.07	3.6%
AB.E2.R40	27.28	28.32	1.05	3.5%
AB.E2.R50	26.34	27.42	1.09	3.6%
AB.E2.R60	26.17	27.43	1.25	4.2%
AB.E3.R0	22.73	23.93	1.20	4.0%
AB.E3.R2	22.11	23.21	1.11	3.7%
AB.E3.R5	21.35	22.34	0.99	3.3%
AB.E3.R10	20.38	21.22	0.84	2.8%
AB.E3.R20	19.04	19.70	0.66	2.2%
AB.E3.R30	18.13	18.68	0.55	1.8%
AB.E3.R40	17.44	17.92	0.47	1.6%
AB.E3.R50	16.89	17.31	0.42	1.4%
AB.E3.R60	16.43	16.80	0.37	1.2%
AB.E3.R70	16.03	16.37	0.34	1.1%
AB.E3.R80	15.68	15.99	0.31	1.0%
AB.E3.R90	15.36	15.66	0.29	1.0%
AB.E3.R100	15.08	15.36	0.27	0.9%
AB.E3.R110	14.83	15.08	0.26	0.9%
AB.E3.R120	14.59	14.83	0.24	0.8%
AB.E3.R130	14.37	14.60	0.23	0.8%
AB.E3.R140	14.17	14.39	0.22	0.7%

Receptor ID	NO_x Annual Mean Concentration		PC Difference (µg/m³)	% PC of Critical Level
	2028 Stage 1b (µg/m³) PEC	2028 Stage 2b (µg/m³) PEC		
AB.E3.R150	13.98	14.19	0.21	0.7%
AB.E3.R160	13.80	14.00	0.20	0.7%
AB.E3.R170	13.63	13.82	0.19	0.6%
AB.E3.R180	13.48	13.66	0.18	0.6%
AB.E3.R190	13.33	13.51	0.17	0.6%
AB.E3.R200	13.19	13.36	0.17	0.6%

Table 8h.32: Predicted 2028 24-hour Mean NO_x Concentration Change (Tonge Gorse)

Receptor ID	NO_x 24-hour Mean Concentration		PC Difference (µg/m³)	% PC of Critical Level
	2028 Stage 1b (µg/m³) PC	2028 Stage 2b (µg/m³) PC		
AB.E2.R0	6.51	6.93	0.41	0.6%
AB.E2.R2	6.45	6.85	0.40	0.5%
AB.E2.R5	6.33	6.72	0.38	0.5%
AB.E2.R10	6.09	6.45	0.36	0.5%
AB.E2.R20	5.56	5.88	0.32	0.4%
AB.E2.R30	5.09	5.39	0.29	0.4%
AB.E2.R40	4.72	5.01	0.28	0.4%
AB.E2.R50	4.48	4.77	0.29	0.4%
AB.E2.R60	4.44	4.77	0.33	0.4%
AB.E3.R0	3.55	3.86	0.31	0.4%
AB.E3.R2	3.39	3.68	0.29	0.4%
AB.E3.R5	3.20	3.46	0.26	0.3%
AB.E3.R10	2.95	3.17	0.22	0.3%
AB.E3.R20	2.60	2.78	0.17	0.2%
AB.E3.R30	2.37	2.51	0.14	0.2%
AB.E3.R40	2.19	2.32	0.12	0.2%
AB.E3.R50	2.05	2.16	0.11	0.1%
AB.E3.R60	1.93	2.03	0.10	0.1%
AB.E3.R70	1.83	1.92	0.09	0.1%

Receptor ID	NO_x 24-hour Mean Concentration		PC Difference ($\mu g/m^3$)	% PC of Critical Level
	2028 Stage 1b ($\mu g/m^3$) PC	2028 Stage 2b ($\mu g/m^3$) PC		
AB.E3.R80	1.74	1.82	0.08	0.1%
AB.E3.R90	1.66	1.73	0.08	0.1%
AB.E3.R100	1.59	1.66	0.07	0.1%
AB.E3.R110	1.52	1.59	0.07	0.1%
AB.E3.R120	1.46	1.52	0.06	0.1%
AB.E3.R130	1.40	1.46	0.06	0.1%
AB.E3.R140	1.35	1.41	0.06	0.1%
AB.E3.R150	1.30	1.36	0.06	0.1%
AB.E3.R160	1.26	1.31	0.05	0.1%
AB.E3.R170	1.21	1.26	0.05	0.1%
AB.E3.R180	1.17	1.22	0.05	0.1%
AB.E3.R190	1.13	1.18	0.05	0.1%
AB.E3.R200	1.10	1.14	0.04	0.1%

Table 8h.33: Predicted 2028 Annual Mean NH_3 Concentration Change (Tonge Gorse)

Receptor ID	NH_3 Annual Mean Concentration		PC Difference ($\mu g/m^3$)	% PC of Critical Level
	2028 Stage 1b ($\mu g/m^3$) PEC	2028 Stage 2b ($\mu g/m^3$) PEC		
AB.E2.R0	2.52	2.58	0.06	6.24%
AB.E2.R2	2.51	2.57	0.06	6.05%
AB.E2.R5	2.49	2.55	0.06	5.81%
AB.E2.R10	2.46	2.52	0.05	5.48%
AB.E2.R20	2.40	2.45	0.05	5.04%
AB.E2.R30	2.35	2.40	0.05	4.84%
AB.E2.R40	2.30	2.35	0.05	4.88%
AB.E2.R50	2.29	2.34	0.05	5.26%
AB.E2.R60	2.30	2.37	0.06	6.29%
AB.E3.R0	2.21	2.29	0.07	7.16%
AB.E3.R2	2.18	2.25	0.07	6.67%
AB.E3.R5	2.14	2.20	0.06	6.08%

Receptor ID	NH_3 Annual Mean Concentration		PC Difference ($\mu g/m^3$)	% PC of Critical Level
	2028 Stage 1b ($\mu g/m^3$) PEC	2028 Stage 2b ($\mu g/m^3$) PEC		
AB.E3.R10	2.10	2.15	0.05	5.34%
AB.E3.R20	2.03	2.07	0.04	4.34%
AB.E3.R30	1.99	2.02	0.04	3.72%
AB.E3.R40	1.96	1.99	0.03	3.24%
AB.E3.R50	1.93	1.96	0.03	2.82%
AB.E3.R60	1.91	1.94	0.02	2.44%
AB.E3.R70	1.90	1.92	0.02	2.12%
AB.E3.R80	1.88	1.90	0.02	1.87%
AB.E3.R90	1.87	1.89	0.02	1.66%
AB.E3.R100	1.86	1.88	0.01	1.50%
AB.E3.R110	1.85	1.87	0.01	1.36%
AB.E3.R120	1.84	1.86	0.01	1.25%
AB.E3.R130	1.84	1.85	0.01	1.16%
AB.E3.R140	1.83	1.84	0.01	1.08%
AB.E3.R150	1.82	1.83	0.01	1.01%
AB.E3.R160	1.82	1.83	0.01	0.95%
AB.E3.R170	1.81	1.82	0.01	0.89%
AB.E3.R180	1.80	1.81	0.01	0.85%
AB.E3.R190	1.80	1.81	0.01	0.80%
AB.E3.R200	1.79	1.80	0.01	0.77%

Table 8h.34: Predicted 2028 Total Acid Deposition (Tonge Gorse)

Receptor ID	Total Acid Deposition		PC Difference (kgN/ha/yr)	% PC of Critical Load
	2028 Stage 1b (kgN/ha/yr) PEC	2028 Stage 2b (kgN/ha/yr) PEC		
AB.E2.R0	2.34	2.35	0.01	6.6%
AB.E2.R2	2.34	2.35	0.01	6.4%
AB.E2.R5	2.33	2.34	0.01	6.1%
AB.E2.R10	2.32	2.33	0.01	5.8%
AB.E2.R20	2.30	2.31	0.01	5.2%

Receptor ID	Total Acid Deposition		PC Difference (kgN/ha/yr)	% PC of Critical Load
	2028 Stage 1b (kgN/ha/yr) PEC	2028 Stage 2b (kgN/ha/yr) PEC		
AB.E2.R30	2.29	2.30	0.01	4.9%
AB.E2.R40	2.27	2.28	0.01	4.9%
AB.E2.R50	2.26	2.27	0.01	5.1%
AB.E2.R60	2.26	2.27	0.01	6.0%
AB.E3.R0	2.23	2.24	0.01	6.0%
AB.E3.R2	2.22	2.23	0.01	5.5%
AB.E3.R5	2.21	2.22	0.01	4.9%
AB.E3.R10	2.20	2.21	0.01	4.3%
AB.E3.R20	2.19	2.20	0.01	3.4%
AB.E3.R30	2.18	2.18	0.01	2.9%
AB.E3.R40	2.17	2.18	0.01	2.4%
AB.E3.R50	2.17	2.17	0.00	2.1%
AB.E3.R60	2.16	2.16	0.00	2.0%
AB.E3.R70	2.16	2.16	0.00	1.8%
AB.E3.R80	2.15	2.16	0.00	1.6%
AB.E3.R90	2.15	2.15	0.00	1.5%
AB.E3.R100	2.15	2.15	0.00	1.4%
AB.E3.R110	2.14	2.15	0.00	1.3%
AB.E3.R120	2.14	2.14	0.00	1.3%
AB.E3.R130	2.14	2.14	0.00	1.2%
AB.E3.R140	2.14	2.14	0.00	1.2%
AB.E3.R150	2.13	2.14	0.00	1.1%
AB.E3.R160	2.13	2.13	0.00	1.0%
AB.E3.R170	2.13	2.13	0.00	0.9%
AB.E3.R180	2.13	2.13	0.00	0.8%
AB.E3.R190	2.13	2.13	0.00	0.9%
AB.E3.R200	2.13	2.13	0.00	0.8%

Table 8h.35: Predicted 2028 Total Nitrogen Deposition (Tonge Gorse)

Receptor ID	Total Nitrogen Deposition		PC Difference (keq ha^{-1} $year^{1}$)	% PC of Critical Load
	2028 Stage 1b (keq ha/ year) PEC	2028 Stage 2b (keq ha/ year) PEC		
AB.E2.R0	38.34	39.01	0.67	6.7%
AB.E2.R2	38.24	38.89	0.65	6.5%
AB.E2.R5	38.06	38.68	0.62	6.2%
AB.E2.R10	37.70	38.29	0.59	5.9%
AB.E2.R20	36.97	37.50	0.53	5.3%
AB.E2.R30	36.31	36.82	0.51	5.1%
AB.E2.R40	35.80	36.31	0.51	5.1%
AB.E2.R50	35.52	36.07	0.55	5.5%
AB.E2.R60	35.65	36.30	0.65	6.5%
AB.E3.R0	34.50	35.22	0.72	7.2%
AB.E3.R2	34.17	34.84	0.67	6.7%
AB.E3.R5	33.77	34.38	0.60	6.0%
AB.E3.R10	33.26	33.79	0.53	5.3%
AB.E3.R20	32.58	33.00	0.43	4.3%
AB.E3.R30	32.12	32.48	0.37	3.7%
AB.E3.R40	31.79	32.10	0.32	3.2%
AB.E3.R50	31.53	31.80	0.27	2.7%
AB.E3.R60	31.31	31.55	0.24	2.4%
AB.E3.R70	31.13	31.35	0.21	2.1%
AB.E3.R80	30.98	31.17	0.19	1.9%
AB.E3.R90	30.84	31.01	0.17	1.7%
AB.E3.R100	30.72	30.88	0.15	1.5%
AB.E3.R110	30.61	30.75	0.14	1.4%
AB.E3.R120	30.51	30.65	0.13	1.3%
AB.E3.R130	30.42	30.54	0.12	1.2%
AB.E3.R140	30.34	30.45	0.12	1.2%
AB.E3.R150	30.26	30.37	0.11	1.1%

Receptor ID	Total Nitrogen Deposition		PC Difference (keq ha^{-1} $year^{1}$)	% PC of Critical Load
	2028 Stage 1b (keq ha/ year) PEC	2028 Stage 2b (keq ha/ year) PEC		
AB.E3.R160	30.18	30.29	0.10	1.0%
AB.E3.R170	30.12	30.21	0.10	1.0%
AB.E3.R180	30.05	30.14	0.09	0.9%
AB.E3.R190	29.99	30.08	0.09	0.9%
AB.E3.R200	29.94	30.02	0.08	0.8%

Lount Meadows SSSI

Table 8h.36: Predicted 2028 Annual Mean NO_x Concentration Change (Lount Meadows SSSI)

Receptor ID	NO_x Annual Mean Concentration		PC Difference (µg/m^3)	% PC of Critical Level
	2028 Stage 1b (µg/m^3) PEC	2028 Stage 2b (µg/m^3) PEC		
TK.E3.R0	39.82	41.03	1.21	4.0%
TK.E3.R2	38.18	39.32	1.14	3.8%
TK.E3.R5	36.00	37.05	1.05	3.5%
TK.E3.R10	33.01	33.94	0.93	3.1%
TK.E3.R20	28.57	29.32	0.75	2.5%
TK.E3.R30	25.44	26.06	0.63	2.1%
TK.E3.R40	23.10	23.64	0.54	1.8%
TK.E3.R50	21.28	21.75	0.47	1.6%
TK.E3.R60	19.82	20.23	0.41	1.4%
TK.E3.R70	18.62	18.99	0.37	1.2%
TK.E3.R80	17.62	17.95	0.33	1.1%
TK.E3.R90	16.78	17.08	0.30	1.0%
TK.E3.R100	16.05	16.33	0.27	0.9%
TK.E3.R110	15.43	15.68	0.25	0.8%
TK.E3.R120	14.88	15.11	0.23	0.8%
TK.E3.R130	14.40	14.61	0.21	0.7%
TK.E3.R140	13.97	14.17	0.20	0.7%
TK.E3.R150	13.60	13.78	0.18	0.6%

Table 8h.37: Predicted 2028 24-hour Mean NO_x Concentration Change (Lount Meadows SSSI)

Receptor ID	NO_x 24-hour Mean Concentration		PC Difference (µg/m^3)	% PC of Critical Level
	2028 Stage 1b (µg/m^3) PC	2028 Stage 2b (µg/m^3) PC		
TK.E3.R0	8.03	8.34	0.31	0.4%
TK.E3.R2	7.61	7.90	0.29	0.4%
TK.E3.R5	7.06	7.32	0.27	0.4%
TK.E3.R10	6.29	6.53	0.24	0.3%

Receptor ID	NO_x 24-hour Mean Concentration		PC Difference ($\mu g/m^3$)	% PC of Critical Level
	2028 Stage 1b ($\mu g/m^3$) PC	2028 Stage 2b ($\mu g/m^3$) PC		
TK.E3.R20	5.16	5.35	0.19	0.3%
TK.E3.R30	4.37	4.53	0.16	0.2%
TK.E3.R40	3.77	3.91	0.14	0.2%
TK.E3.R50	3.31	3.43	0.12	0.2%
TK.E3.R60	2.93	3.04	0.11	0.1%
TK.E3.R70	2.63	2.72	0.09	0.1%
TK.E3.R80	2.38	2.46	0.08	0.1%
TK.E3.R90	2.16	2.24	0.08	0.1%
TK.E3.R100	1.98	2.05	0.07	0.1%
TK.E3.R110	1.82	1.88	0.06	0.1%
TK.E3.R120	1.68	1.74	0.06	0.1%
TK.E3.R130	1.55	1.61	0.05	0.1%
TK.E3.R140	1.45	1.50	0.05	0.1%
TK.E3.R150	1.35	1.40	0.05	0.1%

Table 8h.38: Predicted 2028 Annual Mean NH_3 Concentration Change (Lount Meadows SSSI)

Receptor ID	NH_3 Annual Mean Concentration		PC Difference ($\mu g/m^3$)	% PC of Critical Level
	2028 Stage 1b ($\mu g/m^3$) PEC	2028 Stage 2b ($\mu g/m^3$) PEC		
TK.E3.R0	2.98	3.06	0.08	2.78%
TK.E3.R2	2.92	3.00	0.08	2.62%
TK.E3.R5	2.84	2.91	0.07	2.41%
TK.E3.R10	2.73	2.80	0.06	2.13%
TK.E3.R20	2.58	2.63	0.05	1.73%
TK.E3.R30	2.47	2.51	0.04	1.45%
TK.E3.R40	2.38	2.42	0.04	1.24%
TK.E3.R50	2.32	2.35	0.03	1.08%
TK.E3.R60	2.27	2.30	0.03	0.95%
TK.E3.R70	2.23	2.25	0.03	0.85%
TK.E3.R80	2.19	2.22	0.02	0.76%

Receptor ID	NH_3 Annual Mean Concentration		PC Difference ($\mu g/m^3$)	% PC of Critical Level
	2028 Stage 1b ($\mu g/m^3$) PEC	2028 Stage 2b ($\mu g/m^3$) PEC		
TK.E3.R90	2.16	2.18	0.02	0.69%
TK.E3.R100	2.14	2.16	0.02	0.63%
TK.E3.R110	2.12	2.13	0.02	0.58%
TK.E3.R120	2.10	2.11	0.02	0.53%
TK.E3.R130	2.08	2.09	0.01	0.49%
TK.E3.R140	2.07	2.08	0.01	0.46%
TK.E3.R150	2.05	2.07	0.01	0.43%

Table 8h.39: Predicted 2028 Total Acid Deposition (Lount Meadows SSSI)

Receptor ID	Total Acid Deposition		PC Difference (kgN/ha/yr)	% PC of Critical Load
	2028 Stage 1b (kgN/ha/yr) PEC	2028 1b (With Development) (kgN/ha/yr) PEC		
TK.E3.R0	2.30	2.30	0.00	0.1%
TK.E3.R2	2.30	2.30	0.00	0.1%
TK.E3.R5	2.28	2.29	0.00	0.1%
TK.E3.R10	2.27	2.27	0.00	0.1%
TK.E3.R20	2.25	2.25	0.00	0.1%
TK.E3.R30	2.23	2.23	0.00	0.1%
TK.E3.R40	2.22	2.22	0.00	0.0%
TK.E3.R50	2.21	2.21	0.00	0.0%
TK.E3.R60	2.20	2.20	0.00	0.0%
TK.E3.R70	2.20	2.20	0.00	0.0%
TK.E3.R80	2.19	2.19	0.00	0.0%
TK.E3.R90	2.19	2.19	0.00	0.0%
TK.E3.R100	2.18	2.18	0.00	0.0%
TK.E3.R110	2.18	2.18	0.00	0.0%
TK.E3.R120	2.18	2.18	0.00	0.0%
TK.E3.R130	2.17	2.17	0.00	0.0%
TK.E3.R140	2.17	2.17	0.00	0.0%

Receptor ID	Total Acid Deposition		PC Difference (kgN/ha/yr)	% PC of Critical Load
	2028 Stage 1b (kgN/ha/yr) PEC	2028 1b (With Development) (kgN/ha/yr) PEC		
TK.E3.R150	2.17	2.17	0.00	0.0%

Table 8h.40: Predicted 2028 Total Nitrogen Deposition (Lount Meadows SSSI)

Receptor ID	Total Nitrogen Deposition		PC Difference (keq ha^{-1} $year^{1}$)	% PC of Critical Load
	2028 Stage 1b (keq ha/ year) PEC	2028 Stage 2b (keq ha/ year) PEC		
TK.E3.R0	37.43	37.73	0.29	2.9%
TK.E3.R2	37.03	37.31	0.28	2.8%
TK.E3.R5	36.50	36.76	0.25	2.5%
TK.E3.R10	35.77	36.00	0.23	2.3%
TK.E3.R20	34.68	34.86	0.19	1.9%
TK.E3.R30	33.90	34.06	0.16	1.6%
TK.E3.R40	33.32	33.46	0.13	1.3%
TK.E3.R50	32.87	32.99	0.12	1.2%
TK.E3.R60	32.51	32.61	0.10	1.0%
TK.E3.R70	32.21	32.30	0.09	0.9%
TK.E3.R80	31.96	32.04	0.08	0.8%
TK.E3.R90	31.75	31.82	0.08	0.8%
TK.E3.R100	31.57	31.64	0.07	0.7%
TK.E3.R110	31.41	31.47	0.06	0.6%
TK.E3.R120	31.27	31.33	0.06	0.6%
TK.E3.R130	31.15	31.21	0.05	0.5%
TK.E3.R140	31.05	31.10	0.05	0.5%
TK.E3.R150	30.95	31.00	0.05	0.5%

Breedon Cloud Wood and Quarry

Table 8h.41: Predicted 2028 Annual Mean NO_x Concentration Change (Breedon and Cloud Wood Quarry)

Receptor ID	NO_x Annual Mean Concentration		PC Difference (µg/m^3)	% PC of Critical Level
	2028 Stage 1b (µg/m^3) PEC	2028 Stage 2b (µg/m^3) PEC		
TK.E4.R0	16.40	17.36	0.97	3.2%
TK.E4.R2	15.48	16.35	0.87	2.9%
TK.E4.R5	14.45	15.21	0.76	2.5%
TK.E4.R10	13.28	13.91	0.63	2.1%
TK.E4.R20	11.89	12.36	0.47	1.6%
TK.E4.R30	11.09	11.47	0.37	1.2%
TK.E4.R40	10.57	10.88	0.31	1.0%
TK.E4.R50	10.20	10.47	0.26	0.9%
TK.E4.R60	9.93	10.16	0.23	0.8%
TK.E4.R70	9.72	9.92	0.20	0.7%
TK.E4.R80	9.56	9.74	0.18	0.6%
TK.E4.R90	9.42	9.59	0.16	0.5%
TK.E4.R100	9.31	9.46	0.15	0.5%
TK.E4.R110	9.22	9.35	0.13	0.4%
TK.E4.R120	9.14	9.26	0.12	0.4%
TK.E4.R130	9.07	9.19	0.11	0.4%
TK.E4.R140	9.01	9.12	0.11	0.4%
TK.E4.R150	8.96	9.06	0.10	0.3%
TK.E4.R160	8.91	9.00	0.09	0.3%
TK.E4.R170	8.87	8.95	0.09	0.3%
TK.E4.R180	8.83	8.91	0.08	0.3%
TK.E4.R190	8.80	8.88	0.08	0.3%
TK.E4.R200	8.77	8.84	0.07	0.2%

Table 8h.42: Predicted 2028 24-hour Mean NO_x Concentration Change (Breedon and Cloud Wood Quarry)

Receptor ID	NO_x 24-hour Mean Concentration		PC Difference (µg/m^3)	% PC of Critical Level
	2028 Stage 1b (µg/m^3) PC	2028 Stage 2b (µg/m^3) PC		
TK.E4.R0	2.17	2.41	0.25	0.3%
TK.E4.R2	1.93	2.15	0.22	0.3%
TK.E4.R5	1.67	1.86	0.19	0.3%
TK.E4.R10	1.37	1.53	0.16	0.2%
TK.E4.R20	1.02	1.14	0.12	0.2%
TK.E4.R30	0.82	0.91	0.09	0.1%
TK.E4.R40	0.69	0.76	0.08	0.1%
TK.E4.R50	0.59	0.66	0.07	0.1%
TK.E4.R60	0.52	0.58	0.06	0.1%
TK.E4.R70	0.47	0.52	0.05	0.1%
TK.E4.R80	0.43	0.47	0.05	0.1%
TK.E4.R90	0.39	0.43	0.04	0.1%
TK.E4.R100	0.37	0.40	0.04	0.1%
TK.E4.R110	0.34	0.38	0.03	0.0%
TK.E4.R120	0.32	0.35	0.03	0.0%
TK.E4.R130	0.30	0.33	0.03	0.0%
TK.E4.R140	0.29	0.32	0.03	0.0%
TK.E4.R150	0.28	0.30	0.03	0.0%
TK.E4.R160	0.26	0.29	0.02	0.0%
TK.E4.R170	0.25	0.27	0.02	0.0%
TK.E4.R180	0.24	0.26	0.02	0.0%
TK.E4.R190	0.23	0.25	0.02	0.0%
TK.E4.R200	0.23	0.25	0.02	0.0%

Table 8h.43: Predicted 2028 Annual Mean NH_3 Concentration Change (Breedon and Cloud Wood Quarry)

Receptor ID	NH_3 Annual Mean Concentration		PC Difference (µg/m^3)	% PC of Critical Level
	2028 Stage 1b (µg/m^3) PEC	2028 Stage 2b (µg/m^3) PEC		
TK.E4.R0	2.05	2.09	0.04	3.96%

Receptor ID	NH_3 Annual Mean Concentration		PC Difference ($\mu g/m^3$)	% PC of Critical Level
	2028 Stage 1b ($\mu g/m^3$) PEC	2028 Stage 2b ($\mu g/m^3$) PEC		
TK.E4.R2	2.01	2.05	0.04	3.58%
TK.E4.R5	1.97	2.01	0.03	3.14%
TK.E4.R10	1.93	1.95	0.03	2.61%
TK.E4.R20	1.87	1.89	0.02	1.96%
TK.E4.R30	1.84	1.85	0.02	1.56%
TK.E4.R40	1.82	1.83	0.01	1.28%
TK.E4.R50	1.80	1.81	0.01	1.09%
TK.E4.R60	1.79	1.80	0.01	0.94%
TK.E4.R70	1.78	1.79	0.01	0.83%
TK.E4.R80	1.78	1.78	0.01	0.74%
TK.E4.R90	1.77	1.78	0.01	0.66%
TK.E4.R100	1.77	1.77	0.01	0.60%
TK.E4.R110	1.76	1.77	0.01	0.55%
TK.E4.R120	1.76	1.76	0.01	0.51%
TK.E4.R130	1.76	1.76	0.00	0.47%
TK.E4.R140	1.75	1.76	0.00	0.44%
TK.E4.R150	1.75	1.76	0.00	0.41%
TK.E4.R160	1.75	1.75	0.00	0.38%
TK.E4.R170	1.75	1.75	0.00	0.36%
TK.E4.R180	1.75	1.75	0.00	0.34%
TK.E4.R190	1.74	1.75	0.00	0.32%
TK.E4.R200	1.74	1.75	0.00	0.30%

Table 8h.44: Predicted 2028 Total Acid Deposition (Breedon and Cloud Wood Quarry)

Receptor ID	Total Acid Deposition		PC Difference (kgN/ha/yr)	% PC of Critical Load
	2028 Stage 1b (kgN/ha/yr) PEC	2028 Stage 2b (kgN/ha/yr) PEC		
TK.E4.R0	2.20	2.21	0.01	7.2%
TK.E4.R2	2.19	2.20	0.01	6.4%
TK.E4.R5	2.18	2.19	0.01	5.7%

Receptor ID	Total Acid Deposition		PC Difference (kgN/ha/yr)	% PC of Critical Load
	2028 Stage 1b (kgN/ha/yr) PEC	2028 Stage 2b (kgN/ha/yr) PEC		
TK.E4.R10	2.17	2.18	0.01	4.7%
TK.E4.R20	2.15	2.16	0.01	3.6%
TK.E4.R30	2.15	2.15	0.00	2.8%
TK.E4.R40	2.14	2.14	0.00	2.4%
TK.E4.R50	2.14	2.14	0.00	2.0%
TK.E4.R60	2.13	2.14	0.00	1.7%
TK.E4.R70	2.13	2.13	0.00	1.6%
TK.E4.R80	2.13	2.13	0.00	1.4%
TK.E4.R90	2.13	2.13	0.00	1.3%
TK.E4.R100	2.13	2.13	0.00	1.1%
TK.E4.R110	2.12	2.13	0.00	1.1%
TK.E4.R120	2.12	2.13	0.00	0.9%
TK.E4.R130	2.12	2.12	0.00	0.8%
TK.E4.R140	2.12	2.12	0.00	0.8%
TK.E4.R150	2.12	2.12	0.00	0.8%
TK.E4.R160	2.12	2.12	0.00	0.6%
TK.E4.R170	2.12	2.12	0.00	0.6%
TK.E4.R180	2.12	2.12	0.00	0.6%
TK.E4.R190	2.12	2.12	0.00	0.6%
TK.E4.R200	2.12	2.12	0.00	0.5%

Table 8h.45: Predicted 2028 Total Nitrogen Deposition (Lount Meadows SSSI)

Receptor ID	Total Nitrogen Deposition		PC Difference (keq ha^{-1} $year^{1}$)	% PC of Critical Load
	2028 Stage 1b (keq ha/ year) PEC	2028 Stage 2b (keq ha/ year) PEC		
TK.E4.R0	32.29	32.73	0.44	2.9%
TK.E4.R2	31.88	32.27	0.40	2.6%
TK.E4.R5	31.42	31.77	0.35	2.3%
TK.E4.R10	30.89	31.18	0.29	1.9%
TK.E4.R20	30.26	30.48	0.22	1.5%

Receptor ID	Total Nitrogen Deposition		PC Difference (keq ha^{-1} $year^{1}$)	% PC of Critical Load
	2028 Stage 1b (keq ha/ year) PEC	2028 Stage 2b (keq ha/ year) PEC		
TK.E4.R30	29.89	30.06	0.17	1.2%
TK.E4.R40	29.65	29.79	0.14	1.0%
TK.E4.R50	29.48	29.60	0.12	0.8%
TK.E4.R60	29.35	29.46	0.11	0.7%
TK.E4.R70	29.26	29.35	0.09	0.6%
TK.E4.R80	29.18	29.26	0.08	0.6%
TK.E4.R90	29.12	29.19	0.07	0.5%
TK.E4.R100	29.07	29.14	0.07	0.4%
TK.E4.R110	29.02	29.09	0.06	0.4%
TK.E4.R120	28.99	29.04	0.06	0.4%
TK.E4.R130	28.96	29.01	0.05	0.3%
TK.E4.R140	28.93	28.98	0.05	0.3%
TK.E4.R150	28.90	28.95	0.05	0.3%
TK.E4.R160	28.88	28.93	0.04	0.3%
TK.E4.R170	28.87	28.90	0.04	0.3%
TK.E4.R180	28.85	28.89	0.04	0.3%
TK.E4.R190	28.83	28.87	0.04	0.2%
TK.E4.R200	28.82	28.85	0.03	0.2%

On-Site Veteran Trees and Off-Site Ancient Trees

Table 8h.46: Predicted 2028 Annual Mean NO_x Concentration Change (On-Site Veteran Trees and Off-Site Ancient Trees)

Receptor ID	NO_x Annual Mean Concentration		PC Difference ($\mu g/m^3$)	% PC of Critical Level
	2028 Stage 1a (Without EMG2) ($\mu g/m^3$) PEC	2028 Stage 2a (With Development) ($\mu g/m^3$) PEC		
20002	20.13	22.35	2.23	7.4%
20008	11.09	11.14	0.05	0.2%
20009	11.05	11.07	0.03	0.1%
2000A	11.39	11.50	0.11	0.4%
2000B	11.08	11.10	0.02	0.1%
2000C	11.05	11.08	0.03	0.1%
2000D	11.11	11.14	0.02	0.1%
20012	11.10	11.15	0.05	0.2%
20013	11.00	11.01	0.01	0.0%

Table 8h.47: Predicted 2028 24-hour Mean NO_x Concentration Change (On-Site Veteran Trees and Off-Site Ancient Trees)

Receptor ID	NO_x 24-hour Mean Concentration		PC Difference ($\mu g/m^3$)	% PC of Critical Level
	2028 Stage 1b ($\mu g/m^3$) PC	2028 Stage 2b ($\mu g/m^3$) PC		
20002	2.14	2.70	0.57	0.8%
20008	0.19	0.23	0.04	0.1%
20009	0.15	0.17	0.02	0.0%
2000A	0.44	0.54	0.10	0.1%
2000B	0.17	0.19	0.02	0.0%
2000C	0.15	0.18	0.02	0.0%
2000D	0.20	0.22	0.02	0.0%
20012	0.20	0.23	0.04	0.1%
20013	0.10	0.12	0.01	0.0%

Table 8h.48: Predicted 2028 Annual Mean NH_3 Concentration Change (On-Site Veteran Trees and Off-Site Ancient Trees)

Receptor ID	NH_3 Annual Mean Concentration		PC Difference ($\mu g/m^3$)	% PC of Critical Level
	2028 Stage 1b ($\mu g/m^3$) PEC	2028 Stage 2b ($\mu g/m^3$) PEC		
20002	1.98	2.07	0.09	8.70%
20008	1.68	1.70	0.02	1.96%
20009	1.67	1.69	0.01	1.19%
2000A	1.72	1.77	0.05	4.72%
2000B	1.68	1.69	0.01	1.15%
2000C	1.67	1.69	0.01	1.29%
2000D	1.68	1.70	0.01	1.29%
20012	1.68	1.70	0.02	1.96%
20013	1.67	1.67	0.01	0.65%

Table 8h.49: Predicted 2028 Total Acid Deposition (On-Site Veteran Trees and Off-Site Ancient Trees)

Receptor ID	Total Acid Deposition		PC Difference (kgN/ha/yr)	% PC of Critical Load
	2028 Stage 1b (kgN/ha/yr) PEC	2028 Stage 2b (kgN/ha/yr) PEC		
20002	2.17	2.19	0.02	10.7%
20008	2.08	2.08	0.00	0.4%
20009	2.08	2.08	0.00	0.3%
2000A	2.09	2.09	0.00	1.0%
2000B	2.08	2.08	0.00	0.2%
2000C	2.08	2.08	0.00	0.2%
2000D	2.08	2.08	0.00	0.2%
20012	2.08	2.08	0.00	0.4%
20013	2.08	2.08	0.00	0.2%

Table 8h.50: Predicted 2028 Total Nitrogen Deposition (On-Site Veteran Trees and Off-Site Ancient Trees)

Receptor ID	Total Nitrogen Deposition		PC Difference (keq ha^{-1} $year^{1}$)	% PC of Critical Load
	2028 Stage 1b (keq ha/ year) PEC	2028 Stage 2b (keq ha/ year) PEC		
20002	31.97	32.94	0.98	9.8%
20008	28.46	28.62	0.16	1.6%

Receptor ID	Total Nitrogen Deposition		PC Difference (keq ha^{-1} $year^{1}$)	% PC of Critical Load
	2028 Stage 1b (keq ha/ year) PEC	2028 Stage 2b (keq ha/ year) PEC		
20009	28.41	28.51	0.10	1.0%
2000A	28.82	29.20	0.39	3.9%
2000B	28.45	28.54	0.09	0.9%
2000C	28.42	28.52	0.10	1.0%
2000D	28.50	28.60	0.10	1.0%
20012	28.47	28.63	0.16	1.6%
20013	28.35	28.41	0.05	0.5%