

## **Appendix B.3 Predicted Impacts at Terrestrial Biodiversity Receptors**

## Appendix B.3: Predicted Impacts at Terrestrial Biodiversity Receptors

Table B.3.1 Predicted Annual Average NO<sub>x</sub> (µg/m<sup>3</sup>) - Process Contributions and Predicted Environmental Concentrations

Receptor	Critical Level	Background	Current RRRF Impact			RRRF post ROP Impact					Cumulative (RRRF post ROP + REP) Impacts				
			PC	PC as % Critical Level	Total Level	PC	PC as % of Critical Level	Absolute Change	Change as % Critical Level	Total Level	PC	PC as % Critical Level	Change	Change as % Critical Level	Total Level
ER1	30	<b>34.4</b>	0.21	0.7%	<b>34.6</b>	0.18	0.6%	-0.03	-0.10%	<b>34.6</b>	0.26	0.85%	0.04	0.15%	<b>34.6</b>
ER2	30	29.0	0.22	0.7%	29.2	0.21	0.7%	-0.01	-0.05%	29.2	0.28	0.92%	0.05	0.18%	29.3
ER3	30	<b>39.1</b>	1.78	5.9%	<b>40.9</b>	1.71	5.7%	-0.07	-0.23%	<b>40.8</b>	2.18	7.26%	0.40	1.33%	<b>41.3</b>
ER4	30	<b>31.2</b>	0.09	0.3%	<b>31.3</b>	0.08	0.3%	0.00	-0.01%	<b>31.3</b>	0.11	0.38%	0.03	0.10%	<b>31.3</b>
ER6	30	<b>40.7</b>	0.04	0.1%	<b>40.7</b>	0.04	0.1%	0.00	<0.01%	<b>40.7</b>	0.05	0.18%	0.01	0.04%	<b>40.7</b>
ER7	30	<b>42.2</b>	0.03	0.1%	<b>42.2</b>	0.03	0.1%	0.00	<0.01%	<b>42.2</b>	0.04	0.15%	0.01	0.04%	<b>42.3</b>
ER8	30	<b>32.4</b>	0.79	2.6%	<b>33.2</b>	0.76	2.5%	-0.03	-0.10%	<b>33.2</b>	1.08	3.59%	0.29	0.97%	<b>33.5</b>
ER9	30	19.7	0.12	0.4%	19.8	0.12	0.4%	0.00	-0.01%	19.8	0.16	0.53%	0.04	0.14%	19.8
ER10	30	21.3	0.05	0.2%	21.3	0.05	0.2%	0.00	<0.01%	21.3	0.07	0.23%	0.02	0.06%	21.3
ER11	30	<b>34.6</b>	0.04	0.1%	<b>34.7</b>	0.04	0.1%	0.00	<0.01%	<b>34.7</b>	0.06	0.19%	0.01	0.05%	<b>34.7</b>
ER16	30	<b>37.1</b>	0.07	0.2%	<b>37.2</b>	0.07	0.2%	0.00	<0.01%	<b>37.2</b>	0.09	0.31%	0.02	0.08%	<b>37.2</b>
ER17	30	29.7	0.05	0.2%	29.7	0.05	0.2%	0.00	<0.01%	29.7	0.07	0.23%	0.02	0.06%	29.7
ER20	30	<b>33.5</b>	0.07	0.2%	<b>33.6</b>	0.06	0.2%	0.00	<0.01%	<b>33.6</b>	0.09	0.29%	0.02	0.07%	<b>33.6</b>
ER21	30	<b>33.0</b>	0.05	0.2%	<b>33.1</b>	0.05	0.2%	0.00	<0.01%	<b>33.1</b>	0.07	0.24%	0.02	0.06%	<b>33.1</b>
BxB103	30	29.6	0.24	0.8%	29.8	0.22	0.7%	-0.01	-0.05%	29.8	0.31	1.03%	0.07	0.23%	29.9
M039	30	9.1	1.78	5.9%	10.9	1.71	5.7%	-0.07	-0.23%	10.8	2.16	7.21%	0.38	1.28%	11.3
BxL07	30	<b>32.8</b>	0.76	2.5%	<b>33.5</b>	0.72	2.4%	-0.04	-0.13%	<b>33.5</b>	1.02	3.41%	0.26	0.88%	<b>33.8</b>
BxL16	30	<b>34.2</b>	0.71	2.4%	<b>34.9</b>	0.67	2.2%	-0.03	-0.12%	<b>34.9</b>	0.93	3.10%	0.22	0.74%	<b>35.1</b>
Lesnes Abbey	30	29.0	0.22	0.7%	29.2	0.21	0.7%	-0.01	-0.05%	29.2	0.28	0.92%	0.05	0.18%	29.3
M041_A	30	28.9	0.03	0.1%	28.9	0.02	0.1%	-0.01	-0.02%	28.9	0.02	0.07%	-0.01	-0.02%	28.9
BxB114	30	<b>36.7</b>	0.41	1.4%	<b>37.1</b>	0.38	1.3%	-0.03	-0.08%	<b>37.1</b>	0.57	1.91%	0.17	0.56%	<b>37.3</b>

Table B.3.2 Predicted 24-hour Average NO<sub>x</sub> (µg/m<sup>3</sup>) - Process Contributions and Predicted Environmental Concentrations

Receptor	Critical Level	Background	Current RRRF Impact			RRRF post ROP Impact					Cumulative (RRRF post ROP + REP) Impacts				
			PC	PC as % Critical Level	Total Level	PC	PC as % of Critical Level	Absolute Change	Change as % Critical Level	Total Level	PC	PC as % Critical Level	Change	Change as % Critical Level	Total Level
ER1	75	40.6	7.56	10.1%	48.1	6.42	8.6%	-1.14	-1.5%	47.0	6.58	8.8%	-0.98	-1.3%	47.2
ER2	75	34.2	4.88	6.5%	39.1	4.70	6.3%	-0.18	-0.2%	38.9	6.04	8.0%	1.16	1.5%	40.2
ER3	75	46.1	9.13	12.2%	55.3	8.90	11.9%	-0.23	-0.3%	55.0	11.23	15.0%	2.10	2.8%	57.4
ER4	75	36.9	1.47	2.0%	38.3	1.45	1.9%	-0.02	0.0%	38.3	2.06	2.7%	0.59	0.8%	38.9
ER6	75	48.0	0.90	1.2%	48.9	0.89	1.2%	-0.01	0.0%	48.9	1.21	1.6%	0.31	0.4%	49.2
ER7	75	49.8	1.27	1.7%	51.1	1.20	1.6%	-0.07	-0.1%	51.0	1.69	2.2%	0.41	0.5%	51.5
ER8	75	38.2	4.76	6.3%	43.0	4.65	6.2%	-0.11	-0.1%	42.9	6.13	8.2%	1.37	1.8%	44.4
ER9	75	23.2	0.99	1.3%	24.2	0.95	1.3%	-0.04	-0.1%	24.2	1.33	1.8%	0.34	0.4%	24.6
ER10	75	25.1	0.59	0.8%	25.7	0.59	0.8%	0.00	0.0%	25.7	0.78	1.0%	0.19	0.2%	25.9
ER11	75	40.9	0.60	0.8%	41.4	0.59	0.8%	-0.01	0.0%	41.4	0.79	1.1%	0.20	0.3%	41.6
ER16	75	43.8	0.77	1.0%	44.5	0.76	1.0%	-0.01	0.0%	44.5	1.03	1.4%	0.26	0.3%	44.8
ER17	75	35.0	0.48	0.6%	35.5	0.48	0.6%	0.00	0.0%	35.5	0.64	0.9%	0.16	0.2%	35.6
ER20	75	39.5	0.78	1.0%	40.3	0.74	1.0%	-0.03	0.0%	40.3	1.04	1.4%	0.26	0.3%	40.6
ER21	75	38.9	1.18	1.6%	40.1	1.14	1.5%	-0.04	-0.1%	40.1	1.54	2.1%	0.36	0.5%	40.5
BxB103	75	34.9	7.12	9.5%	42.0	6.76	9.0%	-0.36	-0.5%	41.7	9.23	12.3%	2.11	2.8%	44.1
M039	75	10.7	9.39	12.5%	20.1	9.15	12.2%	-0.24	-0.3%	19.9	11.31	15.1%	1.92	2.6%	22.1
BxL07	75	38.7	9.72	13.0%	48.4	9.26	12.3%	-0.46	-0.6%	47.9	12.37	16.5%	2.65	3.5%	51.1
BxL16	75	40.4	7.85	10.5%	48.2	7.67	10.2%	-0.18	-0.2%	48.0	10.67	14.2%	2.83	3.8%	51.0
Lesnes Abbey	75	34.2	4.94	6.6%	39.1	4.75	6.3%	-0.19	-0.3%	39.0	6.06	8.1%	1.12	1.5%	40.3
M041_A	75	34.1	1.13	1.5%	35.2	0.95	1.3%	-0.18	-0.2%	35.0	0.95	1.3%	-0.18	-0.2%	35.0
BxB114	75	43.4	5.06	6.7%	48.4	4.80	6.4%	-0.26	-0.3%	48.2	7.11	9.5%	2.05	2.7%	50.5

Table B.3.3 Predicted Annual Average SO<sub>2</sub> (µg/m<sup>3</sup>) - Process Contributions and Predicted Environmental Concentrations

Receptor	Critical Level	Background	Current RRRF Impact			RRRF post ROP Impact					Cumulative (RRRF post ROP + REP) Impacts				
			PC	PC as % Critical Level	Total Level	PC	PC as % of Critical Level	Absolute Change	Change as % Critical Level	Total Level	PC	PC as % Critical Level	Change	Change as % Critical Level	Total Level
ER1	20	1.7	0.05	0.3%	1.74	0.04	0.2%	-0.013	-0.1%	1.73	0.07	0.4%	0.02	0.1%	1.76
ER2	20	1.7	0.06	0.3%	1.75	0.05	0.2%	-0.009	0.0%	1.74	0.07	0.4%	0.02	0.1%	1.76
ER3	20	2.2	0.45	2.2%	2.63	0.38	1.9%	-0.065	-0.3%	2.56	0.57	2.9%	0.12	0.6%	2.75
ER4	20	1.5	0.02	0.1%	1.48	0.02	0.1%	-0.003	0.0%	1.48	0.03	0.2%	0.01	<0.1%	1.49
ER6	20	1.7	0.01	0.0%	1.73	0.01	0.0%	-0.001	0.0%	1.73	0.01	0.1%	0.00	<0.1%	1.73
ER7	20	1.7	0.01	0.0%	1.70	0.01	0.0%	-0.001	0.0%	1.70	0.01	0.1%	0.00	<0.1%	1.70
ER8	20	1.9	0.20	1.0%	2.07	0.17	0.8%	-0.028	-0.1%	2.04	0.30	1.5%	0.10	0.5%	2.17
ER9	20	1.1	0.03	0.1%	1.09	0.03	0.1%	-0.004	<0.1%	1.09	0.04	0.2%	0.01	0.1%	1.10
ER10	20	1.4	0.01	0.1%	1.42	0.01	0.1%	-0.002	<0.1%	1.42	0.02	0.1%	0.01	<0.1%	1.43
ER11	20	0.9	0.01	0.1%	0.95	0.01	0.0%	-0.001	<0.1%	0.95	0.01	0.1%	0.00	<0.1%	0.95
ER16	20	1.9	0.02	0.1%	1.94	0.02	0.1%	-0.002	<0.1%	1.94	0.02	0.1%	0.01	<0.1%	1.94
ER17	20	1.9	0.01	0.1%	1.93	0.01	0.1%	-0.001	<0.1%	1.93	0.02	0.1%	0.01	<0.1%	1.94
ER20	20	1.6	0.02	0.1%	1.59	0.01	0.1%	-0.002	<0.1%	1.58	0.02	0.1%	0.01	<0.1%	1.59
ER21	20	1.1	0.01	0.1%	1.13	0.01	0.1%	-0.002	<0.1%	1.13	0.02	0.1%	0.01	<0.1%	1.14
BxB103	20	1.7	0.06	0.3%	1.75	0.05	0.3%	-0.010	-0.1%	1.74	0.09	0.4%	0.02	0.1%	1.78
M039	20	1.9	0.45	2.2%	2.32	0.38	1.9%	-0.065	-0.3%	2.25	0.57	2.8%	0.12	0.6%	2.44
BxL07	20	1.9	0.19	0.9%	2.08	0.16	0.8%	-0.030	-0.1%	2.05	0.28	1.4%	0.09	0.5%	2.17
BxL16	20	1.9	0.18	0.9%	2.07	0.15	0.7%	-0.027	-0.1%	2.04	0.25	1.3%	0.07	0.4%	2.14
Lesnes Abbey	20	1.7	0.06	0.3%	1.75	0.05	0.2%	-0.009	<0.1%	1.74	0.07	0.4%	0.02	0.1%	1.76
M041_A	20	1.9	0.01	0.0%	1.90	0.00	0.0%	-0.002	<0.1%	1.89	0.00	0.0%	0.00	0.0%	1.89
BxB114	20	1.9	0.10	0.5%	1.99	0.08	0.4%	-0.017	-0.1%	1.97	0.16	0.8%	0.06	0.3%	2.05

Table B.3.4 Predicted Annual Average NH<sub>3</sub> (µg/m<sup>3</sup>) - Process Contributions and Predicted Environmental Concentrations

Receptor	Critical Level	Background	Current RRRF Impact			RRRF post ROP Impact					Cumulative (RRRF post ROP + REP) Impacts				
			PC	PC as % Critical Level	Total Level	PC	PC as % of Critical Level	Absolute Change	Change as % Critical Level	Total Level	PC	PC as % Critical Level	Change	Change as % Critical Level	Total Level
ER1	3	1.9	0.01	0.4%	1.9	0.01	0.3%	<0.01	-0.02%	1.9	0.02	0.7%	0.01	0.32%	1.9
ER2	3	1.9	0.01	0.4%	1.9	0.01	0.4%	<0.01	0.02%	1.9	0.02	0.7%	0.01	0.32%	1.9
ER3	3	2.2	0.09	3.0%	2.3	0.10	3.2%	0.01	0.21%	2.3	0.16	5.3%	0.07	2.31%	2.4
ER4	3	2.0	<0.01	0.1%	2.0	<0.01	0.2%	<0.01	0.01%	2.0	0.01	0.3%	<0.01	0.15%	2.0
ER6	3	2.5	<0.01	0.1%	2.5	<0.01	0.1%	<0.01	0.01%	2.5	<0.01	0.1%	<0.01	0.06%	2.5
ER7	3	2.7	<0.01	<0.1%	2.7	<0.01	0.1%	<0.01	0.00%	2.7	<0.01	0.1%	<0.01	0.05%	2.7
ER8	3	2.2	0.04	1.3%	2.3	0.04	1.4%	<0.01	0.10%	2.3	0.09	2.8%	0.05	1.53%	2.3
ER9	3	1.6	0.01	0.2%	1.6	0.01	0.2%	<0.01	0.02%	1.6	0.01	0.4%	0.01	0.21%	1.6
ER10	3	1.7	<0.01	0.1%	1.7	<0.01	0.1%	<0.01	0.01%	1.7	0.01	0.2%	<0.01	0.09%	1.7
ER11	3	1.7	<0.01	0.1%	1.7	<0.01	0.1%	<0.01	0.01%	1.7	<0.01	0.1%	<0.01	0.07%	1.7
ER16	3	1.4	<0.01	0.1%	1.4	<0.01	0.1%	<0.01	0.01%	1.4	0.01	0.2%	<0.01	0.12%	1.4
ER17	3	1.4	<0.01	0.1%	1.4	<0.01	0.1%	<0.01	0.01%	1.4	0.01	0.2%	<0.01	0.08%	1.4
ER20	3	1.5	<0.01	0.1%	1.5	<0.01	0.1%	<0.01	0.01%	1.5	0.01	0.2%	<0.01	0.11%	1.5
ER21	3	1.6	<0.01	0.1%	1.6	<0.01	0.1%	<0.01	0.01%	1.6	0.01	0.2%	<0.01	0.09%	1.6
BxB103	3	1.9	0.01	0.4%	1.9	0.01	0.4%	<0.01	0.02%	1.9	0.02	0.8%	0.01	0.40%	1.9
M039	3	2.2	0.09	3.0%	2.3	0.10	3.2%	0.01	0.22%	2.3	0.16	5.2%	0.07	2.24%	2.4
BxL07	3	3.0	0.04	1.3%	3.0	0.04	1.3%	<0.01	0.07%	3.0	0.08	2.7%	0.04	1.42%	<b>3.0</b>
BxL16	3	3.0	0.04	1.2%	3.0	0.04	1.2%	<0.01	0.07%	3.0	0.07	2.4%	0.04	1.21%	<b>3.0</b>
Lesnes Abbey	3	1.9	0.01	0.4%	1.9	0.01	0.4%	<0.01	0.02%	1.9	0.02	0.7%	0.01	0.32%	1.9
M041_A	3	3.0	<0.01	<0.1%	3.0	<0.01	<0.1%	<0.01	0.00%	3.0	<0.01	<0.1%	<0.01	<0.01%	3.0
BxB114	3	3.0	0.02	0.7%	3.0	0.02	0.7%	<0.01	0.03%	3.0	0.05	1.6%	0.03	0.88%	3.0

Table B.3.5 Predicted Weekly Average HF( $\mu\text{g}/\text{m}^3$ ) - Process Contributions and Predicted Environmental Concentrations

Receptor	Critical Level	Background	Current RRRF Impact			RRRF post ROP Impact					Cumulative (RRRF post ROP + REP) Impacts				
			PC	PC as % Critical Level	Total Level	PC	PC as % of Critical Level	Absolute Change	Change as % Critical Level	Total Level	PC	PC as % Critical Level	Change	Change as % Critical Level	Total Level
ER1	0.5	0.3	0.01	2.3%	0.3	0.01	2.2%	<0.01	-0.16%	0.3	0.01	2.9%	<0.01	0.6%	0.3
ER2	0.5	0.3	0.01	2.2%	0.3	0.01	2.3%	<0.01	0.14%	0.3	0.02	3.9%	0.01	1.7%	0.3
ER3	0.5	0.3	0.03	5.1%	0.3	0.03	5.6%	<0.01	0.50%	0.3	0.05	9.3%	0.02	4.2%	0.3
ER4	0.5	0.3	<0.01	0.5%	0.3	<0.01	0.6%	<0.01	0.05%	0.3	0.01	1.0%	<0.01	0.5%	0.3
ER6	0.5	0.3	<0.01	0.2%	0.3	<0.01	0.3%	<0.01	0.03%	0.3	<0.01	0.5%	<0.01	0.3%	0.3
ER7	0.5	0.3	<0.01	0.2%	0.3	<0.01	0.2%	<0.01	0.02%	0.3	<0.01	0.3%	<0.01	0.2%	0.3
ER8	0.5	0.3	0.01	2.4%	0.3	0.01	2.7%	<0.01	0.24%	0.3	0.02	4.9%	0.01	2.5%	0.3
ER9	0.5	0.3	<0.01	0.3%	0.3	<0.01	0.4%	<0.01	0.03%	0.3	<0.01	0.7%	<0.01	0.3%	0.3
ER10	0.5	0.3	<0.01	0.2%	0.3	<0.01	0.2%	<0.01	0.02%	0.3	<0.01	0.4%	<0.01	0.2%	0.3
ER11	0.5	0.3	<0.01	0.2%	0.3	<0.01	0.2%	<0.01	0.02%	0.3	<0.01	0.4%	<0.01	0.2%	0.3
ER16	0.5	0.3	<0.01	0.3%	0.3	<0.01	0.4%	<0.01	0.04%	0.3	<0.01	0.7%	<0.01	0.3%	0.3
ER17	0.5	0.3	<0.01	0.2%	0.3	<0.01	0.2%	<0.01	0.02%	0.3	<0.01	0.4%	<0.01	0.2%	0.3
ER20	0.5	0.3	<0.01	0.2%	0.3	<0.01	0.2%	<0.01	0.02%	0.3	<0.01	0.4%	<0.01	0.2%	0.3
ER21	0.5	0.3	<0.01	0.4%	0.3	<0.01	0.4%	<0.01	0.03%	0.3	<0.01	0.7%	<0.01	0.3%	0.3
BxB103	0.5	0.3	0.02	3.4%	0.3	0.02	3.6%	<0.01	0.23%	0.3	0.04	7.1%	0.02	3.7%	0.3
M039	0.5	0.3	0.03	5.2%	0.3	0.03	5.7%	<0.01	0.51%	0.3	0.05	9.3%	0.02	4.1%	0.3
BxL07	0.5	0.3	0.02	4.0%	0.3	0.02	4.3%	<0.01	0.31%	0.3	0.04	8.4%	0.02	4.4%	0.3
BxL16	0.5	0.3	0.02	3.4%	0.3	0.02	3.8%	<0.01	0.31%	0.3	0.03	6.9%	0.02	3.5%	0.3
Lesnes Abbey	0.5	0.3	0.01	2.2%	0.3	0.01	2.4%	<0.01	0.13%	0.3	0.02	3.9%	0.01	1.7%	0.3
M041_A	0.5	0.3	<0.01	0.3%	0.3	<0.01	0.3%	<0.01	-0.03%	0.3	<0.01	0.3%	<0.01	-0.03%	0.3
BxB114	0.5	0.3	0.01	2.3%	0.3	0.01	2.5%	<0.01	0.17%	0.3	0.03	5.4%	0.02	3.1%	0.3

Table B.3.6 Predicted 24-hour Average HF ( $\mu\text{g}/\text{m}^3$ ) - Process Contributions and Predicted Environmental Concentrations

Receptor	Critical Level	Background	Current RRRF Impact			RRRF post ROP Impact					Cumulative (RRRF post ROP + REP) Impacts				
			PC	PC as % Critical Level	Total Level	PC	PC as % of Critical Level	Absolute Change	Change as % Critical Level	Total Level	PC	PC as % Critical Level	Change	Change as % Critical Level	Total Level
ER1	5.0	0.3	0.04	0.7%	0.3	0.04	0.7%	<0.01	-0.03%	0.3	0.05	1.1%	0.02	0.32%	0.4
ER2	5.0	0.3	0.02	0.5%	0.3	0.03	0.5%	<0.01	0.04%	0.3	0.04	0.9%	0.02	0.40%	0.3
ER3	5.0	0.3	0.05	0.9%	0.3	0.05	1.0%	<0.01	0.09%	0.3	0.08	1.6%	0.04	0.71%	0.4
ER4	5.0	0.3	0.01	0.1%	0.3	0.01	0.2%	<0.01	0.02%	0.3	0.02	0.3%	0.01	0.18%	0.3
ER6	5.0	0.3	<0.01	0.1%	0.3	<0.01	0.1%	<0.01	0.01%	0.3	0.01	0.2%	<0.01	0.09%	0.3
ER7	5.0	0.3	0.01	0.1%	0.3	0.01	0.1%	<0.01	0.01%	0.3	0.01	0.3%	0.01	0.14%	0.3
ER8	5.0	0.3	0.02	0.5%	0.3	0.03	0.5%	<0.01	0.05%	0.3	0.05	0.9%	0.02	0.44%	0.3
ER9	5.0	0.3	<0.01	0.1%	0.3	0.01	0.1%	<0.01	0.01%	0.3	0.01	0.2%	0.01	0.11%	0.3
ER10	5.0	0.3	<0.01	0.1%	0.3	<0.01	0.1%	<0.01	0.01%	0.3	0.01	0.1%	<0.01	0.06%	0.3
ER11	5.0	0.3	<0.01	0.1%	0.3	<0.01	0.1%	<0.01	0.01%	0.3	0.01	0.1%	<0.01	0.06%	0.3
ER16	5.0	0.3	<0.01	0.1%	0.3	<0.01	0.1%	<0.01	0.01%	0.3	0.01	0.2%	<0.01	0.08%	0.3
ER17	5.0	0.3	<0.01	<0.1%	0.3	<0.01	0.1%	<0.01	0.01%	0.3	<0.01	0.1%	<0.01	0.05%	0.3
ER20	5.0	0.3	<0.01	0.1%	0.3	<0.01	0.1%	<0.01	0.01%	0.3	0.01	0.2%	<0.01	0.08%	0.3
ER21	5.0	0.3	0.01	0.1%	0.3	0.01	0.1%	<0.01	0.01%	0.3	0.01	0.2%	0.01	0.12%	0.3
BxB103	5.0	0.3	0.04	0.7%	0.3	0.04	0.8%	<0.01	0.05%	0.3	0.07	1.4%	0.04	0.71%	0.4
M039	5.0	0.3	0.05	0.9%	0.3	0.05	1.0%	<0.01	0.09%	0.4	0.08	1.6%	0.03	0.67%	0.4
BxL07	5.0	0.3	0.05	1.0%	0.3	0.05	1.0%	<0.01	0.07%	0.4	0.09	1.9%	0.05	0.90%	0.4
BxL16	5.0	0.3	0.04	0.8%	0.3	0.04	0.9%	<0.01	0.08%	0.3	0.09	1.7%	0.05	0.93%	0.4
Lesnes Abbey	5.0	0.3	0.02	0.5%	0.3	0.03	0.5%	<0.01	0.04%	0.3	0.04	0.9%	0.02	0.39%	0.3
M041_A	5.0	0.3	0.01	0.1%	0.3	0.01	0.1%	<0.01	-0.01%	0.3	0.01	0.1%	<0.01	-0.01%	0.3
BxB114	5.0	0.3	0.03	0.5%	0.3	0.03	0.5%	<0.01	0.03%	0.3	0.06	1.2%	0.03	0.69%	0.4

Table B.3.7 Predicted Annual Nitrogen Deposition Rate (kgN/ha/year) - Process Contributions and Predicted Environmental Concentrations

Receptor	Critical Load	Background	Current RRRF Impact			RRRF post ROP Impact					Cumulative (RRRF post ROP + REP) Impacts				
			PC	PC as % Critical Load	Total Load	PC	PC as % of Critical Load	Absolute Change	Change as % Critical Load	Total Load	PC	PC as % Critical Load	Change	Change as % Critical Load	Total Load
ER1	20	17.5	0.13	0.6%	17.6	0.12	0.6%	-0.01	-0.05%	17.6	0.21	1.04%	0.08	0.42%	17.71
ER2	10	<b>30.8</b>	0.13	1.3%	<b>30.9</b>	0.13	1.3%	0.00	0.01%	<b>30.9</b>	0.22	2.17%	0.09	0.87%	<b>31.02</b>
ER3	20	18.3	0.64	3.2%	19.0	0.67	3.4%	0.03	0.13%	19.0	1.04	5.22%	0.40	2.00%	19.38
ER4	15	<b>31.1</b>	0.03	0.2%	<b>31.1</b>	0.03	0.2%	0.00	0.01%	<b>31.1</b>	0.06	0.37%	0.03	0.17%	<b>31.14</b>
ER6	8	<b>20.2</b>	0.01	0.2%	<b>20.2</b>	0.01	0.2%	0.00	0.01%	<b>20.2</b>	0.02	0.31%	0.01	0.14%	<b>20.18</b>
ER7	8	<b>21.4</b>	0.01	0.1%	<b>21.4</b>	0.01	0.1%	0.00	0.01%	<b>21.4</b>	0.02	0.25%	0.01	0.11%	<b>21.44</b>
ER8	15	<b>18.3</b>	0.28	1.9%	<b>18.6</b>	0.30	2.0%	0.01	0.08%	<b>18.6</b>	0.55	3.67%	0.27	1.78%	<b>18.89</b>
ER9	15	<b>28.0</b>	0.04	0.3%	<b>28.0</b>	0.05	0.3%	0.00	0.02%	<b>28.0</b>	0.08	0.53%	0.04	0.24%	<b>28.08</b>
ER10	10	<b>28.7</b>	0.02	0.2%	<b>28.7</b>	0.02	0.2%	0.00	0.01%	<b>28.7</b>	0.03	0.34%	0.02	0.16%	<b>28.73</b>
ER11	20	16.9	0.01	0.1%	17.0	0.02	0.1%	0.00	0.01%	17.0	0.03	0.14%	0.01	0.06%	16.97
ER16	10	<b>26.5</b>	0.04	0.4%	<b>26.5</b>	0.04	0.4%	0.00	0.03%	<b>26.5</b>	0.07	0.72%	0.03	0.31%	<b>26.53</b>
ER17	10	<b>26.5</b>	0.03	0.3%	<b>26.5</b>	0.03	0.3%	0.00	0.02%	<b>26.5</b>	0.05	0.53%	0.02	0.23%	<b>26.51</b>
ER20	15	<b>27.3</b>	0.04	0.3%	<b>27.3</b>	0.04	0.3%	0.00	0.01%	<b>27.3</b>	0.07	0.45%	0.03	0.19%	<b>27.37</b>
ER21	15	<b>29.4</b>	0.03	0.2%	<b>29.4</b>	0.03	0.2%	0.00	0.01%	<b>29.4</b>	0.06	0.37%	0.02	0.16%	<b>29.46</b>
BxB103	10	<b>30.8</b>	0.14	1.4%	<b>30.9</b>	0.14	1.4%	0.00	0.01%	<b>30.9</b>	0.25	2.50%	0.11	1.09%	<b>31.05</b>
M039	20	18.3	1.06	5.3%	19.4	1.09	5.5%	0.04	0.18%	19.4	1.66	8.28%	0.60	3.00%	20.00
BxL07	10	<b>39.6</b>	0.45	4.5%	<b>40.1</b>	0.46	4.6%	0.01	0.08%	<b>40.1</b>	0.83	8.32%	0.38	3.84%	<b>40.45</b>
BxL16	10	<b>39.6</b>	0.42	4.2%	<b>40.0</b>	0.43	4.3%	0.01	0.10%	<b>40.0</b>	0.74	7.45%	0.33	3.27%	<b>40.36</b>
Lesnes Abbey	10	<b>30.8</b>	0.13	1.3%	<b>30.9</b>	0.13	1.3%	0.00	0.01%	<b>30.9</b>	0.22	2.18%	0.09	0.87%	<b>31.02</b>
M041_A	20	<b>21.6</b>	0.02	0.1%	<b>21.6</b>	0.01	0.1%	0.00	-0.01%	<b>21.6</b>	0.01	0.07%	0.00	-0.01%	<b>21.57</b>
BxB114	10	<b>21.6</b>	0.15	1.5%	<b>21.7</b>	0.15	1.5%	0.00	0.02%	<b>21.7</b>	0.30	3.01%	0.15	1.55%	<b>21.86</b>



Table B.3.8 Predicted Annual Acid Deposition Rate (keq/ha/yr) - Process Contributions and Predicted Environmental Concentrations

Receptor	Critical Load CLMaxN	Background	Current RRRF Impact			RRRF post ROP Impact					Cumulative (RRRF post ROP + REP) Impacts				
			PC	PC as % Critical Load	Total Load	PC	PC as % of Critical Load	Change	Change as % Critical Load	Total Load	PC	PC as % Critical Load	Change	Change as % Critical Load	Total Load
ER1	5.071	1.4	0.03	0.6%	1.5	0.02	0.5%	-0.01	-0.11%	1.4	0.04	0.84%	0.01	0.25%	1.46
ER2	1.034	<b>2.4</b>	0.03	3.0%	<b>2.4</b>	0.03	2.7%	<0.01	-0.35%	<b>2.4</b>	0.04	4.32%	0.01	1.30%	<b>2.45</b>
ER3	Habitat not sensitive to acid deposition														
ER4	2.700	2.4	0.01	0.3%	2.4	0.01	0.3%	<0.01	-0.03%	2.4	0.01	0.46%	<0.01	0.16%	2.44
ER6	1.103	<b>1.6</b>	0.00	0.3%	<b>1.6</b>	<0.01	0.3%	<0.01	-0.02%	<b>1.6</b>	0.01	0.50%	<0.01	0.18%	<b>1.61</b>
ER7	1.103	<b>1.7</b>	0.00	0.3%	<b>1.7</b>	<0.01	0.2%	<0.01	-0.02%	<b>1.7</b>	<0.01	0.40%	<0.01	0.14%	<b>1.70</b>
ER8	Habitat not sensitive to acid deposition														
ER9	2.100	<b>2.2</b>	0.01	0.5%	<b>2.2</b>	0.01	0.5%	<0.01	-0.04%	<b>2.2</b>	0.02	0.84%	0.01	0.30%	<b>2.22</b>
ER10	2.908	2.2	<0.01	0.2%	2.2	<0.01	0.2%	<0.01	-0.01%	2.2	0.01	0.26%	<0.01	0.09%	2.25
ER11	4.600	1.3	<0.01	0.1%	1.3	<0.01	0.1%	<0.01	-0.01%	1.3	0.01	0.13%	<0.01	0.05%	1.31
ER16	1.739	<b>2.1</b>	0.01	0.6%	<b>2.1</b>	0.01	0.5%	<0.01	-0.03%	<b>2.1</b>	0.01	0.86%	0.01	0.29%	<b>2.14</b>
ER17	1.740	<b>2.1</b>	0.01	0.4%	<b>2.1</b>	0.01	0.4%	<0.01	-0.02%	<b>2.1</b>	0.01	0.63%	<0.01	0.22%	<b>2.14</b>
ER20	8.600	2.2	0.01	0.1%	2.2	0.01	0.1%	<0.01	-0.01%	2.2	0.01	0.16%	<0.01	0.05%	2.21
ER21	1.500	<b>2.3</b>	0.01	0.5%	<b>2.3</b>	0.01	0.5%	<0.01	-0.04%	<b>2.3</b>	0.01	0.76%	<0.01	0.25%	<b>2.31</b>
BxB103	11.031	<b>2.3</b>	0.03	3.3%	<b>2.4</b>	0.03	2.9%	<0.01	-0.37%	<b>2.4</b>	0.05	4.99%	0.02	1.70%	<b>2.38</b>
M039	Habitat not sensitive to acid deposition														
BxL07	8.612	3.1	0.11	1.2%	3.2	0.10	1.1%	-0.01	-0.13%	3.2	0.17	1.98%	0.06	0.74%	3.25
BxL16	8.618	3.1	0.10	1.2%	3.2	0.09	1.0%	-0.01	-0.12%	3.2	0.15	1.77%	0.05	0.61%	3.23
Lesnes Abbey	1.034	<b>2.4</b>	0.03	3.0%	<b>2.4</b>	0.03	2.7%	0.00	-0.35%	<b>2.4</b>	0.04	4.33%	0.01	1.31%	<b>2.45</b>
M041_A	Habitat not sensitive to acid deposition														
BxB114	No critical loads defined for this habitat														