Ashdown Forest SAC
Air Quality Monitoring and Modelling
Volume 2: Appendices
August 2018

Experts in air quality management & assessment
Document Control

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<th>Wealden District Council</th>
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<td>Principal Contact</td>
<td>Kelly Sharp</td>
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Job Number J2008

Report Prepared By: Dr Ben Marner, Dr Kate Wilkins, Tom Richardson and Reuben Sadler

Document Status and Review Schedule

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<td>Prof. Duncan Laxen (Associate)</td>
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Appendix 1. Acid Deposition

A1.1. As well as causing eutrophication, nitrogen deposition can also cause acidification. This is the case for both oxidised and reduced nitrogen. Acid deposition is measured in kiloequivalents (keq). The unit eq (a keq is 1,000 eq) refers to molar equivalent of potential acidity resulting from e.g. oxidised and reduced nitrogen, as well as base cations. Thus, 1 keq-N/ha/yr is equal to 14 kg-N/ha/yr, and 1 kg-N/ha/yr is equal to 0.071 keq-N/ha/yr.

A1.2. Deposition of sulphur can also contribute towards acidification, and the interaction of nitrogen and sulphur is considered using a ‘critical load function’. The function is defined by three quantities CLmaxS, CLmaxN and CLminN. The maximum critical load of sulphur (CLmaxS) is the critical load for acidity expressed in terms of sulphur, i.e. when nitrogen deposition is zero. The maximum critical load of nitrogen (CLmaxN) is the critical load of acidity expressed in terms of nitrogen only (when sulphur deposition is zero). The long-term nitrogen removal processes in the soil (for example, nitrogen uptake and immobilisation) define a “minimum” critical load for nitrogen (CLminN). N deposition inputs below the CLminN will not acidify the system. After CLminN is reached, additional N will contribute towards acidification.

A1.3. The most sensitive parts of heathland habitat in Ashdown Forest have the following acidity critical loads:

- CLminN: 0.499
- CLmaxS: 0.310
- CLmaxN: 0.952

A1.4. As shown in Chapter 9 (Volume 1), the minimum existing nitrogen deposition flux to the SAC is 9.7 kg-N/ha/yr for the EA method and 9.8 kg-N/ha/yr for the AQC method. These values equate to approximately 0.7 keq-N/ha/yr, which is higher than the CLminN value of 0.499 keq/ha/yr. APIS explains that, where deposition is greater than the CLminN, then impacts in relation to both nitrogen and sulphur should be assessed as a percentage of the CLmaxN value, i.e.:

PC as a percentage of the critical load function = ((PC of S+N deposition)/CLmaxN)*100

Where PC is the process contribution from the scheme or schemes being considered.

A1.5. The deposition of sulphur has not been quantified as part of this study. Since the introduction of sulphur-free fuels, sulphur emissions from road traffic have fallen appreciably and, as such, impacts on ambient concentrations caused by traffic-related sulphur dioxide (SO₂) emissions are no longer considered to be a significant concern in the UK. Defra's NAEI predicts that SO₂ emissions from cars in 2016¹ were approximately 0.2% (0.19% for urban roads and motorways, and 0.22% for rural roads) of NOx (on a g/km basis). The equivalent statistic for light goods

¹ The year for which data are available from the NAEI.
vehicles is around 0.1%, while for HGVs and buses it ranges between 0.11% and 0.36%\(^2\). \(\text{SO}_2\)

does, however, deposit much more readily than \(\text{NO}_2\); for example the Environment Agency (2008)
calculated an equivalent deposition velocity for \(\text{SO}_2\) which was 33 times higher than that for \(\text{NO}_2\).

A1.6. The minimum ratio of road-\(\text{NO}_2\) to road-\(\text{NOx}\) calculated for this study, when expressed as annual

averages, was approximately 40%. Using all of this information together a worst-case

approximation of the ratio of sulphur from \(\text{SO}_2\) deposition to nitrogen from \(\text{NO}_2\) deposition can be

derived as:

\[
0.36\% \times 33 \times 1/0.4 = 0.3
\]

A1.7. Thus, an upper-bound of the amount that local traffic might be contributing to sulphur deposition

can be derived by multiplying the nitrogen contribution by 0.3. In practice, this is likely to overstate

the level of sulphur deposition.

A1.8. One kg of sulphur equates to 0.062 keq, thus if the increase in nitrogen deposition due to road

traffic is calculated to be 0.1 kg-N/ha/yr (i.e. 1% of the lower-bound critical load for eutrophication),

the equivalent acid deposition will be:

\[
0.1 \times 0.071 = 0.0071 \text{ keq-N/ha/yr} + \\
0.1 \times 0.3 \times 0.062 = 0.0019 \text{ keq-S/ha/yr}
\]

\[
= 0.0090 \text{ keq/ha/yr}
\]

A1.9. 0.0090 keq/ha/yr is marginally less than 1% of the \(\text{CLmaxN}\) value of 0.952 listed above. What this

means is that, taking a worst-case approach to calculating potential local traffic-related sulphur

deposition, an increase in traffic volume will exceed 1% of the critical load for eutrophication before

it exceeds 1% of the critical load for acid deposition.

A1.10. In the future, \(\text{NOx}\) emissions per vehicle are expected to fall, but no equivalent falls in \(\text{SO}_2\)

emissions are predicted. This means that, in emissions models B and C (where \(\text{NOx}\) emissions

per vehicle are predicted to reduce in the future), acid deposition could, relatively speaking, be

more significant.

\[^2\] http://naei.defra.gov.uk/data/ef-transport, combined hot exhaust and cold-start, fleet-weighted emissions factors.
### Table A2.1: Monitoring Site Locations

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Table A2.2: Traffic Flows for Roads outside the SAC

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Appendix 3. Maps of Monitor Locations

Figure A3.1: Location of Automatic Monitor

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Figure A3.2: All Diffusion Tube Sites (Also showing four quadrants used for the following more detailed maps)

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Figure A3.3: Diffusion Tube Sites in Northwest Section of Study Area

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Figure A3.4: Diffusion Tube Sites in Northeast Section of Study Area

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Figure A3.5: Diffusion Tube Sites in Southwest Section of Study Area

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Figure A3.6: Diffusion Tube Sites in Southeast Section of Study Area

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Figure A3.7: Monitoring Transects

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Figure A3.10: Transect 3 (Sites R3.1 to R3.8)
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Figure A3.11: Transect 1 (Sites R4.1 to R4.7 – Also incorporating Site T18 for local background)

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Figure A3.12: Locations of DELTA Monitoring Sites

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Figure A3.13: Locations of ALPHA Monitoring Sites (see Figure A3.8, Figure A3.9 and Figure A3.10 for details of transect sites)

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Figure A3.14: Locations of WDC and ESCC ATC Sites (The WDC sites were commissioned as part of this study)

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Appendix 4. Maps Showing Model Configuration

Figure A4.1: Receptor Grid for Dispersion Modelling
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Note, this grid was defined prior to receipt of the traffic model and so it includes minor roads which were not eventually modelled. Diffusion tube monitoring suggests that the omission of these roads from the model is unlikely to be significant.
Figure A4.2: Modelled Roads within and Immediately Adjacent to the SAC

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Figure A4.3: Modelled Roads Outside of the SAC (Road Selection Determined by Traffic Model)

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Appendix 5. Maps Showing Measured Concentrations

Figure A5.1: Two-year Average Measured NO₂ Concentrations in Northwest Section of Study Area

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Figure A5.2: Two-year Average Measured NO₂ Concentrations in Northeast Section of Study Area

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<1.0
10.0 - 15.0
15.0 - 20.0
20.0 - 25.0
25.0 - 30.0
30.0 - 35.0
>35
µg/m³
Figure A5.3: Two-year Average Measured NO₂ Concentrations in Southwest Section of Study Area
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Figure A5.4: Two-year Average Measured NO₂ Concentrations in Southeast Section of Study Area

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Appendix 6. Maps of 2015 Baseline Model Results
Figure A6.1: Annual Mean NOx in Northwest Section of Study Area (µg/m³) 2015 Baseline

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Figure A6.2: Annual Mean NOx in Northeast Section of Study Area (µg/m³) 2015 Baseline

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Figure A6.3: Annual Mean NOx in Southwest Section of Study Area (µg/m³) 2015 Baseline
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Figure A6.4: Annual Mean NOx in Southeast Section of Study Area (µg/m³) 2015 Baseline

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Figure A6.5: Maximum 24-hour Mean NOx in Northwest Section of Study Area (µg/m³) 2015 Baseline

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Figure A6.6: Maximum 24-hour Mean NOx in Northeast Section of Study Area (µg/m³) 2015 Baseline

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Figure A6.7: Maximum 24-hour Mean NOx in Southwest Section of Study Area (µg/m³) 2015 Baseline

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Figure A6.8: Maximum 24-hour Mean NOx in Southeast Section of Study Area (µg/m³) 2015 Baseline

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Figure A6.9: Annual Mean NH₃ in Northwest Section of Study Area (µg/m³) 2015 Baseline
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Figure A6.10: Annual Mean NH$_3$ in Northeast Section of Study Area (µg/m$^3$) 2015 Baseline

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Figure A6.11: Annual Mean NH₃ in Southwest Section of Study Area (µg/m³) 2015 Baseline

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Figure A6.12: Annual Mean NH$_3$ in Southeast Section of Study Area (µg/m$^3$) 2015 Baseline

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Figure A6.13: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2015 Baseline (EA Method)

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Figure A6.14: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2015 Baseline (EA Method)

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Figure A6.15: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2015 Baseline (EA Method)

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Figure A6.16: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2015 Baseline (EA Method)

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Figure A6.17: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2015 Baseline (AQC Method)

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Figure A6.18: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2015 Baseline (AQC Method)

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Figure A6.19: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2015 Baseline (AQC Method)
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Figure A6.20: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2015 Baseline (AQC Method)

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Appendix 7. Maps of 2028 No Growth Model Results
Figure A7.1: Annual Mean NOx in Northwest Section of Study Area (µg/m$^3$) 2028 No Growth (Emissions - B)

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Figure A7.2: Annual Mean NOx in Northeast Section of Study Area (µg/m³) 2028 No Growth (Emissions - B)

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Figure A7.3: Annual Mean NOx in Southwest Section of Study Area (µg/m³) 2028 No Growth (Emissions - B)

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Figure A7.4: Annual Mean NOx in Southeast Section of Study Area (µg/m³) 2028 No Growth (Emissions - B)

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Figure A7.5: Maximum 24-hour Mean NOx in Northwest Section of Study Area (µg/m³) 2028 No Growth (Emissions - B)

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Figure A7.6: Maximum 24-hour Mean NOx in Northeast Section of Study Area (µg/m³) 2028 No Growth (Emissions - B)

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Figure A7.7: Maximum 24-hour Mean NOx in Southwest Section of Study Area (µg/m$^3$) 2028 No Growth (Emissions - B)

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Figure A7.8: Maximum 24-hour Mean NOx in Southeast Section of Study Area (µg/m³) 2028 No Growth (Emissions - B)

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Figure A7.9: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - B) (EA Method)

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Figure A7.10: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - B) (EA Method)

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Figure A7.11: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - B) (EA Method)

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Figure A7.12: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - B) (EA Method)

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Figure A7.13: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - B) (AQC Method)

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Figure A7.14: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - B) (AQC Method)

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Figure A7.15: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - B) (AQC Method)

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Figure A7.16: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - B) (AQC Method)

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Figure A7.17: Annual Mean NOx in Northwest Section of Study Area ($\mu$g/m$^3$) 2028 No Growth (Emissions - C)

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Figure A7.18: Annual Mean NOx in Northeast Section of Study Area (µg/m³) 2028 No Growth (Emissions - C)
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Figure A7.19: Annual Mean NOx in Southwest Section of Study Area (µg/m³) 2028 No Growth (Emissions - C)

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Figure A7.20: Annual Mean NOx in Southeast Section of Study Area (µg/m³) 2028 No Growth (Emissions - C)

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Figure A7.21: Maximum 24-hour Mean NOx in Northwest Section of Study Area (µg/m$^3$) 2028 No Growth (Emissions - C)

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Figure A7.23: Maximum 24-hour Mean NOx in Southwest Section of Study Area (µg/m³) 2028 No Growth (Emissions - C)

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Figure A7.24: Maximum 24-hour Mean NOx in Southeast Section of Study Area (µg/m³) 2028 No Growth (Emissions - C)

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Figure A7.25: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - C) (EA Method)

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Figure A7.26: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - C) (EA Method)

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Figure A7.27: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - C) (EA Method)

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Figure A7.28: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - C) (EA Method)

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Figure A7.29: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - C) (AQC Method)

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Figure A7.30: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - C) (AQC Method)

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Figure A7.31: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - C) (AQC Method)

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Figure A7.32: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 No Growth (Emissions - C) (AQC Method)

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Figure A8.2: Annual Mean NOx in Northeast Section of Study Area (µg/m³) 2028 No WDC-Growth (Emissions - A)
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Figure A8.3: Annual Mean NOx in Southwest Section of Study Area (µg/m³) 2028 No WDC-Growth (Emissions - A)

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Figure A8.4: Annual Mean NOx in Southeast Section of Study Area (µg/m³) 2028 No WDC-Growth (Emissions - A)

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Figure A8.5: Maximum 24-hour Mean NOx in Northwest Section of Study Area (µg/m$^3$) 2028 No WDC-Growth (Emissions - A)

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Figure A8.6: Maximum 24-hour Mean NOx in Northeast Section of Study Area (µg/m³) 2028 No WDC-Growth (Emissions - A)

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Figure A8.7: Maximum 24-hour Mean NOx in Southwest Section of Study Area (µg/m$^3$) 2028 No WDC-Growth (Emissions - A)

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Figure A8.8: Maximum 24-hour Mean NOx in Southeast Section of Study Area (µg/m³) 2028 No WDC-Growth (Emissions - A)

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Figure A8.9: Annual Mean NH₃ in Northwest Section of Study Area (µg/m³) 2028 No WDC-Growth (Emissions - A)

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Figure A8.10: Annual Mean NH$_3$ in Northeast Section of Study Area (µg/m$^3$) 2028 No WDC-Growth (Emissions - A)

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Figure A8.11: Annual Mean NH₃ in Southwest Section of Study Area (µg/m³) 2028 No WDC-Growth (Emissions - A)

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Figure A8.12: Annual Mean NH₃ in Southeast Section of Study Area (µg/m³) 2028 No WDC-Growth (Emissions - A)

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Figure A8.13: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - A) (EA Method)

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Figure A8.14: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - A) (EA Method)

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Figure A8.15: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - A) (EA Method)

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Figure A8.16: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - A) (EA Method)

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Figure A8.17: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - A) (AQC Method)

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Figure A8.18: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - A) (AQC Method)

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Figure A8.19: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - A) (AQC Method)

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Figure A8.20: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - A) (AQC Method)

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Figure A8.21: Annual Mean NOx in Northwest Section of Study Area (µg/m³) 2028 No WDC-Growth (Emissions - B)
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Figure A8.22: Annual Mean NOx in Northeast Section of Study Area (µg/m³) 2028 No WDC-Growth (Emissions - B)

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Figure A8.23: Annual Mean NOx in Southwest Section of Study Area (µg/m³) 2028 No WDC-Growth (Emissions - B)

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Figure A8.24: Annual Mean NOx in Southeast Section of Study Area (µg/m³) 2028 No WDC-Growth (Emissions - B)
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Figure A8.25: Maximum 24-hour Mean NOx in Northwest Section of Study Area (µg/m³) 2028 No WDC-Growth (Emissions - B)

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Figure A8.26: Maximum 24-hour Mean NOx in Northeast Section of Study Area (µg/m³) 2028 No WDC-Growth (Emissions - B)

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Figure A8.27: Maximum 24-hour Mean NOx in Southwest Section of Study Area (μg/m³) 2028 No WDC-Growth (Emissions - B)

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Figure A8.28: Maximum 24-hour Mean NOx in Southeast Section of Study Area (µg/m³) 2028 No WDC-Growth (Emissions - B)

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Figure A8.29: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - B) (EA Method)

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Figure A8.30: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - B) (EA Method)

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Figure A8.31: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - B) (EA Method)

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Figure A8.32: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - B) (EA Method)

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Figure A8.33: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - B) (AQC Method)

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Figure A8.34: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - B) (AQC Method)

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Figure A8.35: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - B) (AQC Method)

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Figure A8.36: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - B) (AQC Method)

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Figure A8.37: Annual Mean NOx in Northwest Section of Study Area (µg/m³) 2028 No WDC-Growth (Emissions - C)

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Figure A8.38: Annual Mean NOx in Northeast Section of Study Area (µg/m³) 2028 No WDC-Growth (Emissions - C)

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Figure A8.39: Annual Mean NOx in Southwest Section of Study Area (µg/m³) 2028 No WDC-Growth (Emissions - C)

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Figure A8.40: Annual Mean NOx in Southeast Section of Study Area (µg/m³) 2028 No WDC-Growth (Emissions - C)

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Figure A8.41: Maximum 24-hour Mean NOx in Northwest Section of Study Area (µg/m³) 2028 No WDC-Growth (Emissions - C)

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Figure A8.42: Maximum 24-hour Mean NOx in Northeast Section of Study Area (µg/m³) 2028 No WDC-Growth (Emissions - C)

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Figure A8.43: Maximum 24-hour Mean NOx in Southwest Section of Study Area (µg/m³) 2028 No WDC-Growth (Emissions - C)

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Figure A8.44: Maximum 24-hour Mean NOx in Southeast Section of Study Area (µg/m³) 2028 No WDC-Growth (Emissions - C)

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Figure A8.45: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - C) (EA Method)

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Figure A8.46: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - C) (EA Method)

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Figure A8.47: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - C) (EA Method)

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Figure A8.48: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - C) (EA Method)

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Figure A8.49: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - C) (AQC Method)
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Figure A8.50: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - C) (AQC Method)

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Figure A8.51: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - C) (AQC Method)

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Figure A8.52: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 No WDC-Growth (Emissions - C) (AQC Method)

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Appendix 9. Maps of 2028 With Plan Model Results
Figure A9.1: Annual Mean NOx in Northwest Section of Study Area (µg/m³) 2028 With Plan (Emissions - A)

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Figure A9.2: Annual Mean NOx in Northeast Section of Study Area (µg/m³) 2028 With Plan (Emissions - A)

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Figure A9.3: Annual Mean NOx in Southwest Section of Study Area (µg/m³) 2028 With Plan (Emissions - A)

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Figure A9.4: Annual Mean NOx in Southeast Section of Study Area (µg/m³) 2028 With Plan (Emissions - A)

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Figure A9.5: Maximum 24-hour Mean NOx in Northwest Section of Study Area ($\mu g/m^3$) 2028 With Plan (Emissions - A)

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Figure A9.6: Maximum 24-hour Mean NOx in Northeast Section of Study Area (µg/m³) 2028 With Plan (Emissions - A)

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Figure A9.7: Maximum 24-hour Mean NOx in Southwest Section of Study Area (µg/m³) 2028 With Plan (Emissions - A)

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Figure A9.8: Maximum 24-hour Mean NOx in Southeast Section of Study Area ($\mu$g/m$^3$) 2028 With Plan (Emissions - A)

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Figure A9.9: Annual Mean NH₃ in Northwest Section of Study Area (µg/m³) 2028 With Plan (Emissions - A)

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Figure A9.10: Annual Mean NH$_3$ in Northeast Section of Study Area (µg/m$^3$) 2028 With Plan (Emissions - A)
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Figure A9.11: Annual Mean NH₃ in Southwest Section of Study Area (µg/m³) 2028 With Plan (Emissions - A)

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Figure A9.12: Annual Mean NH$_3$ in Southeast Section of Study Area (µg/m$^3$) 2028 With Plan (Emissions - A)

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Figure A9.13: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - A) (EA Method)

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Figure A9.14: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - A) (EA Method)

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Figure A9.15: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - A) (EA Method)

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Figure A9.16: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - A) (EA Method)

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Figure A9.17: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - A) (AQC Method)

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Figure A9.18: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - A) (AQC Method)

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Figure A9.19: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - A) (AQC Method)

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Figure A9.20: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - A) (AQC Method)

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Figure A9.21: Annual Mean NOx in Northwest Section of Study Area ($\mu$g/m$^3$) 2028 With Plan (Emissions - B)

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Figure A9.22: Annual Mean NOx in Northeast Section of Study Area (µg/m³) 2028 With Plan (Emissions - B)

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Figure A9.23: Annual Mean NOx in Southwest Section of Study Area (µg/m³) 2028 With Plan (Emissions - B)

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Figure A9.24: Annual Mean NOx in Southeast Section of Study Area (µg/m³) 2028 With Plan (Emissions - B)

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Figure A9.25: Maximum 24-hour Mean NOx in Northwest Section of Study Area (µg/m³) 2028 With Plan (Emissions - B)

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Figure A9.26: Maximum 24-hour Mean NOx in Northeast Section of Study Area (µg/m³) 2028 With Plan (Emissions - B)

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Figure A9.27: Maximum 24-hour Mean NOx in Southwest Section of Study Area (µg/m³) 2028 With Plan (Emissions - B)

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Figure A9.28: Maximum 24-hour Mean NOx in Southeast Section of Study Area (µg/m³) 2028 With Plan (Emissions - B)

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Figure A9.29: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - B) (EA Method)

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Figure A9.30: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - B) (EA Method)

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Figure A9.31: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - B) (EA Method)

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Figure A9.32: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - B) (EA Method)

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Figure A9.33: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - B) (AQC Method)

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Figure A9.34: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - B) (AQC Method)

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Figure A9.35: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - B) (AQC Method)

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Figure A9.36: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - B) (AQC Method)

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Figure A9.37: Annual Mean NOx in Northwest Section of Study Area ($\mu$g/m$^3$) 2028 With Plan (Emissions - C)

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Figure A9.38: Annual Mean NOx in Northeast Section of Study Area (µg/m³) 2028 With Plan (Emissions - C)

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Figure A9.39: Annual Mean NOx in Southwest Section of Study Area (µg/m³) 2028 With Plan (Emissions - C)

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Figure A9.40: Annual Mean NOx in Southeast Section of Study Area (µg/m³) 2028 With Plan (Emissions - C)

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Figure A9.41: Maximum 24-hour Mean NOx in Northwest Section of Study Area (µg/m$^3$) 2028 With Plan (Emissions - C)

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Figure A9.42: Maximum 24-hour Mean NOx in Northeast Section of Study Area (µg/m³) 2028 With Plan (Emissions - C)

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Figure A9.43: Maximum 24-hour Mean NOx in Southwest Section of Study Area (µg/m³) 2028 With Plan (Emissions - C)

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Figure A9.44: Maximum 24-hour Mean NOx in Southeast Section of Study Area (µg/m³) 2028 With Plan (Emissions - C)

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Figure A9.45: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - C) (EA Method)

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Figure A9.46: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - C) (EA Method)

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Figure A9.47: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - C) (EA Method)

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Figure A9.48: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - C) (EA Method)

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Figure A9.49: Nitrogen Deposition in Northwest Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - C) (AQC Method)

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Figure A9.50: Nitrogen Deposition in Northeast Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - C) (AQC Method)

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Figure A9.51: Nitrogen Deposition in Southwest Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - C) (AQC Method)

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Figure A9.52: Nitrogen Deposition in Southeast Section of Study Area (kg-N/ha/yr) 2028 With Plan (Emissions - C) (AQC Method)

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Appendix 10. Maps of Changes Caused by Local Plan Alone
Figure A10.1: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emissions Scenario A (µg/m³) – Northwest Section

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Figure A10.2: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emissions Scenario A (µg/m³) – Northeast Section

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Figure A10.3: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emissions Scenario A (µg/m³)–Southwest Section

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Figure A10.4: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emissions Scenario A (µg/m³) – Southeast Section

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Figure A10.5: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A - Northwest Section

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Figure A10.6: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A - Northeast Section

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Figure A10.7: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A - Southwest Section

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Figure A10.8: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A - Southeast Section

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Figure A10.9: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ to ‘No WDC-Growth’ under Emissions Scenario A ($\mu g/m^3$) – Northwest Section

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Figure A10.10: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ to ‘No WDC-Growth’ under Emissions Scenario A (µg/m³) – Northeast Section

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Figure A10.11: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ to ‘No WDC-Growth’ under Emissions Scenario A (µg/m³) – Southwest Section

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Figure A10.12: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ to ‘No WDC-Growth’ under Emissions Scenario A (µg/m³) – Southeast Section

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Figure A10.13: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A - Northwest Section

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Figure A10.14: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m\(^3\) Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A - Northeast Section

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Figure A10.15: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A - Southwest Section

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Figure A10.16: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m$^3$ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A - Southeast Section

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Figure A10.17: Change in Predicted Annual Mean NH₃ Comparing ‘With Plan’ to ‘No WDC-Growth’ (µg/m³) – Northwest Section

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Figure A10.18: Change in Predicted Annual Mean NH₃ Comparing ‘With Plan’ to ‘No WDC-Growth’ (µg/m³) – Northeast Section

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Figure A10.19: Change in Predicted Annual Mean NH₃ Comparing ‘With Plan’ to ‘No WDC-Growth’ (µg/m³) — Southwest Section

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Figure A10.20: Change in Predicted Annual Mean NH₃ Comparing ‘With Plan’ to ‘No WDC-Growth’ (µg/m³) – Southeast Section

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Figure A10.21: Areas in SAC Predicted to Experience an Increase in Annual Mean NH₃ Concentrations Greater than 1% of the 1 µg/m³ Critical Level where the Critical Level would also be Exceeded (Comparing With Plan to No WDC-Growth Scenarios) - Northwest Section.

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Figure A10.22: Areas in SAC Predicted to Experience an Increase in Annual Mean NH$_3$ Concentrations Greater than 1% of the 1 µg/m$^3$ Critical Level where the Critical Level would also be Exceeded (Comparing With Plan to No WDC-Growth Scenarios) - Northeast Section.

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Figure A10.23: Areas in SAC Predicted to Experience an Increase in Annual Mean NH$_3$ Concentrations Greater than 1% of the 1 µg/m$^3$ Critical Level where the Critical Level would also be Exceeded (Comparing With Plan to No WDC-Growth Scenarios) - Southwest Section.

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Figure A10.24: Areas in SAC Predicted to Experience an Increase in Annual Mean NH$_3$ Concentrations Greater than 1% of the 1 µg/m$^3$ Critical Level where the Critical Level would also be Exceeded (Comparing With Plan to No WDC-Growth Scenarios) - Southeast Section.

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Figure A10.25: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emission Scenario A (EA Method) (kg-N/ha/yr) - Northwest Section

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Figure A10.26: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emission Scenario A (EA Method) (kg-N/ha/yr) - Northeast Section

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Figure A10.27: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emission Scenario A (EA Method) (kg-N/ha/yr) - Southwest Section

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Figure A10.28: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emission Scenario A (EA Method) (kg-N/ha/yr) - Southeast Section

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Figure A10.29: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A (EA Method) - Northwest Section

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Figure A10.30: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A (EA Method) - Northeast Section

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Figure A10.31: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A (EA Method) - Southwest Section

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Figure A10.32 Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A (EA Method) - Southeast Section

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Figure A10.33: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emission Scenario A (AQC Method) (kg-N/ha/yr) - Northwest Section
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Figure A10.34: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emission Scenario A (AQC Method) (kg-N/ha/yr) - Northeast Section

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Figure A10.35: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emission Scenario A (AQC Method) (kg-N/ha/yr) - Southwest Section

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Figure A10.36: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emission Scenario A (AQC Method) (kg-N/ha/yr) - Southeast Section

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Figure A10.37: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A (AQC Method) - Northwest Section

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Figure A10.38: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A (AQC Method) - Northeast Section

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Figure A10.39: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A (AQC Method) - Southwest Section

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Figure A10.40 Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario A (AQC Method) - Southeast Section

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Figure A10.41: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emissions Scenario B (µg/m³) – Northwest Section

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Figure A10.42: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emissions Scenario B (µg/m³) – Northeast Section

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Figure A10.43: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emissions Scenario B ($\mu$g/m$^3$)–Southwest Section

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Figure A10.44: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emissions Scenario B (µg/m³) – Southeast Section

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Figure A10.45: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B - Northwest Section

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Figure A10.46: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B - Northeast Section

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Figure A10.47: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B - Southwest Section

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Figure A10.48: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B - Southeast Section

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Figure A10.49: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ to ‘No WDC-Growth’ under Emissions Scenario B (µg/m³) – Northwest Section

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Figure A10.50: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ to ‘No WDC-Growth’ under Emissions Scenario B ($\mu g/m^3$) – Northeast Section

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Figure A10.51: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ to ‘No WDC-Growth’ under Emissions Scenario B (µg/m³) – Southwest Section

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Figure A10.52: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ to ‘No WDC-Growth’ under Emissions Scenario B (µg/m³) – Southeast Section

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Figure A10.53: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B - Northwest Section

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Figure A10.54: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B - Northeast Section

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Figure A10.55: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B - Southwest Section

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Figure A10.56: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B - Southeast Section

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Figure A10.57: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emission Scenario B (EA Method) (kg-N/ha/yr) - Northwest Section

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Figure A10.58: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emission Scenario B (EA Method) (kg-N/ha/yr) - Northeast Section

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Figure A10.59: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emission Scenario B (EA Method) (kg-N/ha/yr) - Southwest Section

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Figure A10.60: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emission Scenario B (EA Method) (kg-N/ha/yr) - Southeast Section

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Figure A10.61: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B (EA Method) - Northwest Section

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Figure A10.62: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B (EA Method) - Northeast Section

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Figure A10.63: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B (EA Method) - Southwest Section

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Figure A10.64 Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B (EA Method) - Southeast Section

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Figure A10.65: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emission Scenario B (AQC Method) (kg-N/ha/yr) - Northwest Section

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Figure A10.66: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emission Scenario B (AQC Method) (kg-N/ha/yr) - Northeast Section

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Figure A10.67: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emission Scenario B (AQC Method) (kg-N/ha/yr) - Southwest Section

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Figure A10.68: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emission Scenario B (AQC Method) (kg-N/ha/yr) - Southeast Section

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Figure A10.69: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B (AQC Method) - Northwest Section

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Figure A10.70: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B (AQCM Method) - Northeast Section

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Figure A10.71: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B (AQC Method) - Southwest Section

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Figure A10.7 Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario B (AQC Method) - Southeast Section

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Figure A10.73: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emissions Scenario C (µg/m³) – Northwest Section

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Figure A10.74: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emissions Scenario C (µg/m³) – Northeast Section

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Figure A10.75: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emissions Scenario C (µg/m³) – Southwest Section

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Figure A10.76: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emissions Scenario C (µg/m³) – Southeast Section

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Figure A10.77: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m$^3$ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C - Northwest Section

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Figure A10.78: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C - Northeast Section

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Figure A10.79: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C - Southwest Section

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Figure A10.80: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C - Southeast Section

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Figure A10.81: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ to ‘No WDC-Growth’ under Emissions Scenario C ($\mu$g/m$^3$) – Northwest Section

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Figure A10.82: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ to ‘No WDC-Growth’ under Emissions Scenario C ($\mu g/m^3$) – Northeast Section

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Figure A10.83: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ to ‘No WDC-Growth’ under Emissions Scenario C ($\mu$g/m$^3$) – Southwest Section

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Figure A10.84: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ to ‘No WDC-Growth’ under Emissions Scenario C (µg/m³) – Southeast Section

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Figure A10.85: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C - Northwest Section

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Figure A10.86: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 \( \mu g/m^3 \) Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C - Northeast Section

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Figure A10.87: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C - Southwest Section

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Figure A10.88: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C - Southeast Section

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Figure A10.89: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan' to ‘No WDC-Growth' Under Emission Scenario C (EA Method) (kg-N/ha/yr) - Northwest Section

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Figure A10.90: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emission Scenario C (EA Method) (kg-N/ha/yr) - Northeast Section

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Figure A10.91: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emission Scenario C (EA Method) (kg-N/ha/yr) - Southwest Section

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Figure A10.92: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No WDC-Growth' Under Emission Scenario C (EA Method) (kg-N/ha/yr) - Southeast Section

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Figure A10.93: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C (EA Method) - Northwest Section

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Figure A10.94: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C (EA Method) - Northeast Section

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Figure A10.95: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C (EA Method) - Southwest Section

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Figure A10.96 Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C (EA Method) - Southeast Section

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Figure A10.97: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emission Scenario C (AQC Method) (kg-N/ha/yr) - Northwest Section

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Figure A10.98: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emission Scenario C (AQC Method) (kg-N/ha/yr) - Northeast Section

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Figure A10.99: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emission Scenario C (AQC Method) (kg-N/ha/yr) - Southwest Section

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Figure A10.100: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No WDC-Growth’ Under Emission Scenario C (AQC Method) (kg-N/ha/yr) - Southeast Section

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Figure A10.101: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C (AQC Method) - Northwest Section

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Figure A10.102: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C (AQC Method) - Northeast Section

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Figure A10.103: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C (AQC Method) - Southwest Section

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Figure A10.104 Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No WDC-Growth Scenarios under Emissions Scenario C (AQC Method) - Southeast Section

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Appendix 11. Maps of Changes Caused by Local Plan In Combination with Other Predicted Traffic Growth
Figure A11.1: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ to ‘No Growth’ Under Emissions Scenario A (µg/m³) – Northwest Section

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Figure A11.2: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ to ‘No Growth’ Under Emissions Scenario A (µg/m³) – Northeast Section

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Figure A11.3: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ to ‘No Growth’ Under Emissions Scenario A (µg/m$^3$) – Southwest Section

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Figure A11.4: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ to ‘No Growth’ Under Emissions Scenario A ($\mu$g/m$^3$) – Southeast Section

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Figure A11.5: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A - Northwest Section

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Figure A11.6: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 $\mu g/m^3$ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A - Northeast Section

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Figure A11.7: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A - Southwest Section

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Figure A11.8: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A - Southeast Section

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Figure A11.9: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ to ‘No Growth’ under Emissions Scenario A (µg/m³)
– Northwest Section

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Figure A11.10: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ to ‘No Growth’ under Emissions Scenario A (µg/m³) – Northeast Section

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Figure A11.11: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ to ‘No Growth’ under Emissions Scenario A ($\mu g/m^3$) – Southwest Section

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Figure A11.12: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ to ‘No Growth’ under Emissions Scenario A ($\mu$g/m$^3$) – Southeast Section

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Figure A11.13: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A - Northwest Section

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Figure A11.14: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A - Northeast Section

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Figure A11.15: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A - Southwest Section

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Figure A11.16: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A - Southeast Section

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Figure A11.17: Change in Predicted Annual Mean NH₃ Comparing ‘With Plan’ to ‘No Growth’ (µg/m³) – Northwest Section

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Figure A11.18: Change in Predicted Annual Mean NH$_3$ Comparing ‘With Plan’ to ‘No Growth’ (µg/m$^3$) – Northeast Section

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Figure A11.19: Change in Predicted Annual Mean NH₃ Comparing 'With Plan' to 'No Growth' (µg/m³) – Southwest Section

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Figure A11.20: Change in Predicted Annual Mean NH$_3$ Comparing ‘With Plan’ to ‘No Growth’ (µg/m$^3$) – Southeast Section

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Figure A11.21: Areas in SAC Predicted to Experience an Increase in Annual Mean NH₃ Concentrations Greater than 1% of the 1 µg/m³ Critical Level where the Critical Level would also be Exceeded (Comparing With Plan to No Growth Scenarios) - Northwest Section.

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Figure A11.22: Areas in SAC Predicted to Experience an Increase in Annual Mean NH₃ Concentrations Greater than 1% of the 1 µg/m³ Critical Level where the Critical Level would also be Exceeded (Comparing With Plan to No Growth Scenarios) - Northeast Section.

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Figure A11.23: Areas in SAC Predicted to Experience an Increase in Annual Mean NH₃ Concentrations Greater than 1% of the 1 µg/m³ Critical Level where the Critical Level would also be Exceeded (Comparing With Plan to No Growth Scenarios) - Southwest Section.
Figure A11.24: Areas in SAC Predicted to Experience an Increase in Annual Mean NH$_3$ Concentrations Greater than 1% of the 1 µg/m$^3$ Critical Level where the Critical Level would also be Exceeded (Comparing With Plan to No Growth Scenarios) - Southeast Section.

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Figure A11.25: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No Growth’ Under Emission Scenario A (EA Method) (kg-N/ha/yr) - Northwest Section

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Figure A11.26: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No Growth’ Under Emission Scenario A (EA Method) (kg-N/ha/yr) - Northeast Section

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Figure A11.27: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No Growth’ Under Emission Scenario A (EA Method) (kg-N/ha/yr) - Southwest Section

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Figure A11.28: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No Growth’ Under Emission Scenario A (EA Method) (kg-N/ha/yr) - Southeast Section

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Figure A11.29: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A (EA Method) - Northwest Section

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Figure A11.30: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A (EA Method)
- Northeast Section

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Figure A11.31: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A (EA Method) - Southwest Section

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Figure A11.32 Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A (EA Method) - Southeast Section

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Figure A11.33: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No Growth’ Under Emission Scenario A (AQC Method) (kg-N/ha/yr) - Northwest Section

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Figure A11.34: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No Growth’ Under Emission Scenario A (AQC Method) (kg-N/ha/yr) - Northeast Section

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Figure A11.35: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No Growth’ Under Emission Scenario A (AQC Method) (kg-N/ha/yr) - Southwest Section

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Figure A11.36: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No Growth' Under Emission Scenario A (AQC Method) (kg-N/ha/yr) - Southeast Section

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Figure A11.37: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A (AQC Method) - Northwest Section

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Figure A11.38: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A (AQC Method) - Northeast Section

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Figure A11.39: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A (AQC Method) - Southwest Section

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Figure A11.40 Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario A (AQC Method) - Southeast Section

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Figure A11.41: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ to ‘No Growth’ Under Emissions Scenario B (µg/m³) – Northwest Section

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Figure A11.42: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ to ‘No Growth’ Under Emissions Scenario B (µg/m³) – Northeast Section

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Figure A11.43: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ to ‘No Growth’ Under Emissions Scenario B (µg/m³)—Southwest Section

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Figure A11.44: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ to ‘No Growth’ Under Emissions Scenario B (µg/m³) – Southeast Section

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Figure A11.45: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B - Northwest Section

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Figure A11.46: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B - Northeast Section

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Figure A11.47: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B - Southwest Section

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Figure A11.48: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B - Southeast Section

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Figure A11.49: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ to ‘No Growth’ under Emissions Scenario B ($\mu g/m^3$) – Northwest Section

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Figure A11.50: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ to ‘No Growth’ under Emissions Scenario B (µg/m³) – Northeast Section

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Figure A11.51: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ to ‘No Growth’ under Emissions Scenario B (µg/m³) – Southwest Section

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Figure A11.52: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ to ‘No Growth’ under Emissions Scenario B (µg/m³) – Southeast Section

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Figure A11.53: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B - Northwest Section

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Figure A11.54: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B - Northeast Section

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Figure A11.55: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B - Southwest Section

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Figure A11.56: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B - Southeast Section

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Figure A11.57: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No Growth’ Under Emission Scenario B (EA Method) (kg-N/ha/yr) - Northwest Section

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Figure A11.58: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No Growth’ Under Emission Scenario B (EA Method) (kg-N/ha/yr) - Northeast Section

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Figure A11.59: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No Growth’ Under Emission Scenario B (EA Method) (kg-N/ha/yr) - Southwest Section

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Figure A11.60: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No Growth’ Under Emission Scenario B (EA Method) (kg-N/ha/yr) - Southeast Section

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Figure A11.61: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B (EA Method) - Northwest Section

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Figure A11.62: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B (EA Method) - Northeast Section

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Figure A11.63: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B (EA Method) - Southwest Section

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Figure A11.64 Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B (EA Method) - Southeast Section

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Figure A11.65: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No Growth’ Under Emission Scenario B (AQC Method) (kg-N/ha/yr) - Northwest Section

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Figure A11.66: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No Growth’ Under Emission Scenario B (AQC Method) (kg-N/ha/yr) - Northeast Section

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Figure A11.67: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No Growth’ Under Emission Scenario B (AQC Method) (kg-N/ha/yr) - Southwest Section

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Figure A11.68: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' to 'No Growth' Under Emission Scenario B (AQC Method) (kg-N/ha/yr) - Southeast Section

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Figure A11.69: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B (AQC Method) - Northwest Section

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Figure A11.70: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B (AQC Method) - Northeast Section

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Figure A11.71: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B (AQC Method) - Southwest Section

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Figure A11.72 Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario B (AQC Method) - Southeast Section

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Figure A11.73: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ to ‘No Growth’ Under Emissions Scenario C (µg/m³) – Northwest Section

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Figure A11.74: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ to ‘No Growth’ Under Emissions Scenario C ($\mu g/m^3$) – Northeast Section

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Figure A11.75: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ to ‘No Growth’ Under Emissions Scenario C (µg/m$^3$)–Southwest Section

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Figure A11.76: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ to ‘No Growth’ Under Emissions Scenario C (µg/m$^3$) – Southeast Section

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Figure A11.77: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 μg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C - Northwest Section

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Figure A11.78: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C - Northeast Section

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Figure A11.79: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C - Southwest Section

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Figure A11.80: Areas in SAC Predicted to Experience an Increase in Annual Mean NOx Concentrations Greater than 1% of the 30 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C - Southeast Section

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Figure A11.81: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ to ‘No Growth’ under Emissions Scenario C (µg/m³) – Northwest Section

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Figure A11.82: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ to ‘No Growth’ under Emissions Scenario C (µg/m³) – Northeast Section

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Figure A11.83: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ to ‘No Growth’ under Emissions Scenario C (µg/m³) – Southwest Section

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Figure A11.84: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ to ‘No Growth’ under Emissions Scenario C (µg/m³) – Southeast Section

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Figure A11.85: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C - Northwest Section

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Figure A11.86: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m^3 Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C - Northeast Section

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Figure A11.87: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C - Southwest Section

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Figure A11.88: Areas in SAC Predicted to Experience an Increase in 24-hour Mean NOx Concentrations Greater than 10% of the 75 µg/m³ Critical Level where the Critical Level would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C - Southeast Section

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Figure A11.89: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No Growth’ Under Emission Scenario C (EA Method) (kg-N/ha/yr) - Northwest Section

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Figure A11.90: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No Growth’ Under Emission Scenario C (EA Method) (kg-N/ha/yr) - Northeast Section

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Figure A11.91: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No Growth’ Under Emission Scenario C (EA Method) (kg-N/ha/yr) - Southwest Section

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Figure A11.92: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No Growth’ Under Emission Scenario C (EA Method) (kg-N/ha/yr) - Southeast Section

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Figure A11.93: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C (EA Method)
- Northwest Section

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Figure A11.94: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C (EA Method) - Northeast Section

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Figure A11.95: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C (EA Method) - Southwest Section

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Figure A11.96 Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C (EA Method) - Southeast Section

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Figure A11.97: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No Growth’ Under Emission Scenario C (AQC Method) (kg-N/ha/yr) - Northwest Section

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Figure A11.98: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No Growth’ Under Emission Scenario C (AQC Method) (kg-N/ha/yr) - Northeast Section

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Figure A11.99: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No Growth’ Under Emission Scenario C (AQC Method) (kg-N/ha/yr) - Southwest Section

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Figure A11.100: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ to ‘No Growth’ Under Emission Scenario C (AQC Method) (kg-N/ha/yr) - Southeast Section

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Figure A11.101: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C (AQC Method) - Northwest Section

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Figure A11.102: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C (AQC Method) - Northeast Section

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Figure A11.103: Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C (AQC Method) - Southwest Section

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Figure A11.104 Areas in SAC Predicted to Experience an Increase in Nitrogen Deposition Greater than 1% of the 10 kg-N/ha/yr Critical Load where this Critical Load would also be Exceeded - Comparing With Plan to No Growth Scenarios under Emissions Scenario C (AQC Method) - Southeast Section

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Appendix 12. Maps of Changes Caused by Local Plan In Combination with Other Predicted Traffic Growth and National and International Emissions Projections
Figure A12.1: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ Emissions Scenario B to ‘No Growth’ Emissions Scenario A (µg/m³) – Northwest Section

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Figure A12.2: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ Emissions Scenario B to ‘No Growth’ Emissions Scenario A (µg/m³) – Northeast Section

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Figure A12.3: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ Emissions Scenario B to ‘No Growth’ Emissions Scenario A (µg/m³)—Southwest Section

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Figure A12.4: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ Emissions Scenario B to ‘No Growth’ Emissions Scenario A (µg/m³) – Southeast Section

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Figure A12.5: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ Emissions Scenario B to ‘No Growth’ Emissions Scenario A (µg/m²) – Northwest Section

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Figure A12.6: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ Emissions Scenario B to ‘No Growth’ Emissions Scenario A (µg/m³) – Northeast Section

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Figure A12.7: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ Emissions Scenario B to ‘No Growth’ Emissions Scenario A (µg/m³) – Southwest Section

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Figure A12.8: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ Emissions Scenario B to ‘No Growth’ Emissions Scenario A (µg/m³) – Southeast Section

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Figure A12.9: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ Emissions Scenario B to ‘No Growth’ Emission Scenario A (EA Method) (kg-N/ha/yr) – Northwest Section

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Figure A12.10: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ Emissions Scenario B to ‘No Growth’ Emission Scenario A (EA Method) (kg-N/ha/yr) – Northeast Section

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Figure A12.11: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ Emissions Scenario B to ‘No Growth’ Emission Scenario A (EA Method) (kg-N/ha/yr) – Southwest Section

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Figure A12.12: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ Emissions Scenario B to ‘No Growth’ Emission Scenario A (EA Method) (kg-N/ha/yr) – Southeast Section

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Figure A12.13: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ Emissions Scenario B to ‘No Growth’ Emission Scenario A (AQC Method) (kg-N/ha/yr) – Northwest Section

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Figure A12.14: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ Emissions Scenario B to ‘No Growth’ Emission Scenario A (AQC Method) (kg-N/ha/yr) – Northeast Section

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Figure A12.15: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ Emissions Scenario B to ‘No Growth’ Emission Scenario A (AQC Method) (kg-N/ha/yr) – Southwest Section

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Figure A12.16: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ Emissions Scenario B to ‘No Growth’ Emission Scenario A (AQC Method) (kg-N/ha/yr) – Southeast Section

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Figure A12.17: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ Emissions Scenario C to ‘No Growth’ Emissions Scenario A ($\mu g/m^3$) – Northwest Section

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Figure A12.18: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ Emissions Scenario C to ‘No Growth’ Emissions Scenario A (µg/m³) – Northeast Section

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Figure A12.19: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ Emissions Scenario C to ‘No Growth’ Emissions Scenario A (µg/m<sup>3</sup>) – Southwest Section

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Figure A12.20: Change in Predicted Annual Mean NOx Comparing ‘With Plan’ Emissions Scenario C to ‘No Growth’ Emissions Scenario A (µg/m³) – Southeast Section

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Figure A12.21: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ Emissions Scenario C to ‘No Growth’ Emissions Scenario A (µg/m³) – Northwest Section

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Figure A12.22: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ Emissions Scenario C to ‘No Growth’ Emissions Scenario A (µg/m³) – Northeast Section

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Figure A12.23: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ Emissions Scenario C to ‘No Growth’ Emissions Scenario A (µg/m³) – Southwest Section

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Figure A12.24: Change in Maximum Predicted 24-hour Mean NOx Comparing ‘With Plan’ Emissions Scenario C to ‘No Growth’ Emissions Scenario A (µg/m³) – Southeast Section

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Figure A12.25: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ Emissions Scenario C to ‘No Growth’ Emission Scenario A (EA Method) (kg-N/ha/yr) – Northwest Section

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Figure A12.26: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ Emissions Scenario C to ‘No Growth’ Emission Scenario A (EA Method) (kg-N/ha/yr) – Northeast Section

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Figure A12.27: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ Emissions Scenario C to ‘No Growth’ Emission Scenario A (EA Method) (kg-N/ha/yr) – Southwest Section

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Figure A12.28: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ Emissions Scenario C to ‘No Growth’ Emission Scenario A (EA Method) (kg-N/ha/yr) – Southeast Section

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Figure A12.29: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ Emissions Scenario C to ‘No Growth’ Emission Scenario A (AQC Method) (kg-N/ha/yr) – Northwest Section

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Figure A12.30: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ Emissions Scenario C to ‘No Growth’ Emission Scenario A (AQC Method) (kg-N/ha/yr) – Northeast Section

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Figure A12.31: Change in Predicted Nitrogen Deposition to SAC Comparing ‘With Plan’ Emissions Scenario C to ‘No Growth’ Emission Scenario A (AQC Method) (kg-N/ha/yr) – Southwest Section

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Figure A12.32: Change in Predicted Nitrogen Deposition to SAC Comparing 'With Plan' Emissions Scenario C to 'No Growth' Emission Scenario A (AQC Method) (kg-N/ha/yr) – Southeast Section

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