

A1 Birtley to Coal House

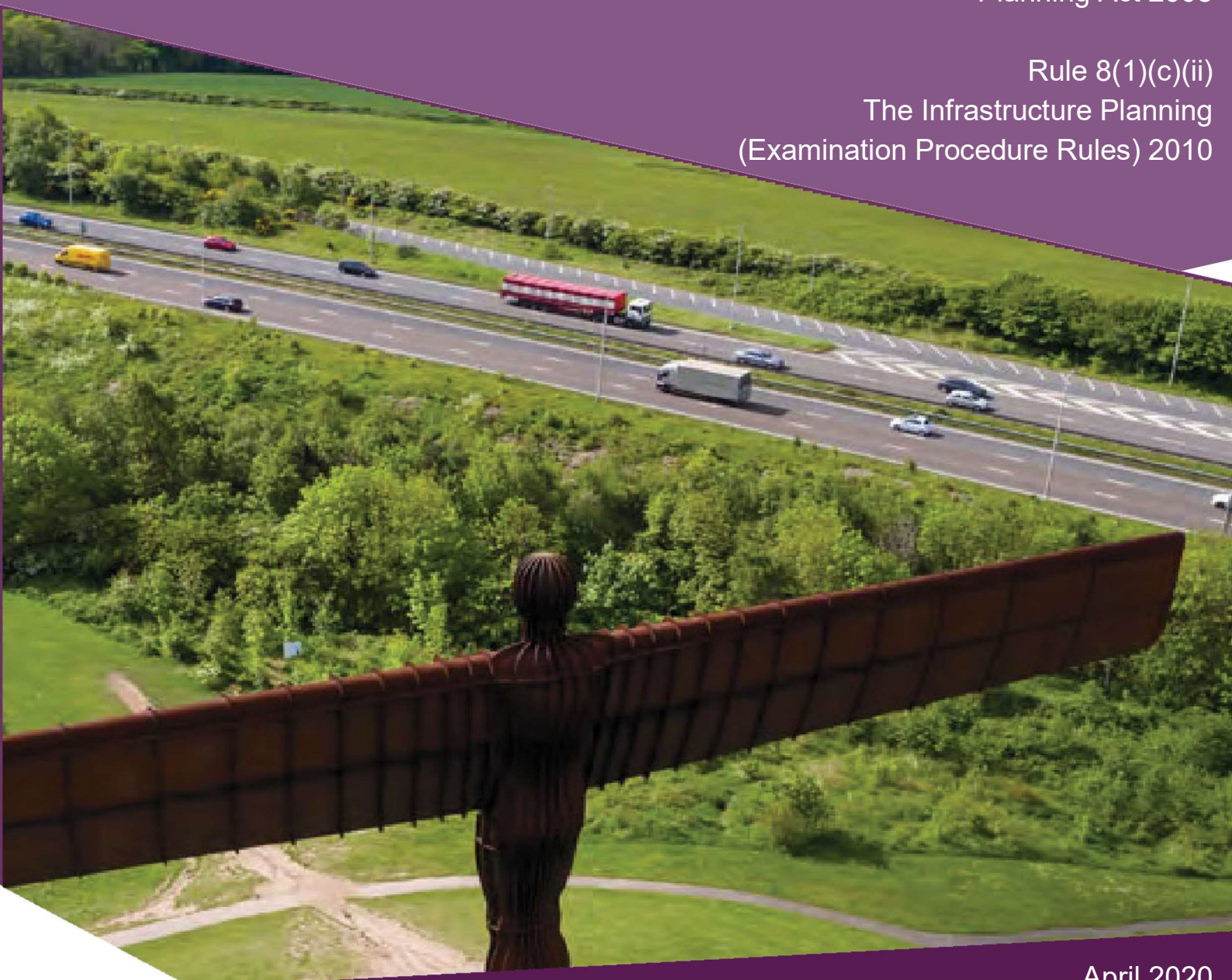
Scheme Number: TR010031

**EXA/D4/028 - Written Question 2.0.12 Appendix 2.00
- DMRB Updates Biodiversity/Air Quality**

Planning Act 2008

Rule 8(1)(c)(ii)

The Infrastructure Planning
(Examination Procedure Rules) 2010



Infrastructure Planning

Planning Act 2008

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(Examination Procedure Rules) 2010**

**The A1 Birtley to Coal House
Development Consent Order 20[xx]**

**Written Question 2.0.12 Appendix 2.00 - DMRB Updates
Biodiversity/Air Quality**

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CONTENTS

1	INTRODUCTION	1
2	BIODIVERSITY ASSESSMENT	2
2.1	ASSESSMENT METHODOLOGY	2
2.2	ASSESSMENT ASSUMPTIONS AND LIMITATIONS	6
2.3	STUDY AREA	7
2.4	BASELINE CONDITIONS	7
2.5	POTENTIAL IMPACTS	8
3	LIKELY SIGNIFICANT EFFECTS	9
4	CONCLUSION	13
5	ABBREVIATIONS	14
6	REFERENCES	15

TABLES

Table 2-1 - Nitrogen Deposition Changes that may Result in the Theoretical Loss of Species Richness	6
Table 3-1 - Ecological Receptors and Potential for Likely Significant Effects to Occur (“Restore” and “Maintain”)	12

APPENDICES

APPENDIX A
AIR QUALITY MODELLING RESULTS
APPENDIX B
ECOLOGICAL TRANSECTS

1 INTRODUCTION

- 1.1.1. Following submission of the Development Consent Order (DCO) application for the A1 Birtley to Coal House Scheme (the Scheme), Highways England updated the Standards for Highways – Design Manual for Road and Bridges (DMRB). This included a replacement of the guidance relating to air quality, as detailed at paragraph 1.1.5 below. These changes have the potential to affect the conclusions set out in **Chapter 8: Biodiversity** of the Environmental Statement (ES) [APP-029].
- 1.1.2. During the DCO examination, the Examining Authority (ExA) submitted the following Written Question (WQ) to the Applicant:
- ExA WQ 1.0.19: “The ExA notes that updates have recently been made to the Design Manual for Roads and Bridges. Please provide a review of these changes where relevant to this application for Development Consent and set out the implications for, and any updates of the assessments provided, in the ES”.
- 1.1.3. An initial response was submitted by the Applicant at Deadline 2 (25 February 2020) (Applicant’s Responses to ExA’s First Written Questions – Appendix 1.0G - DMRB Review Option [REP2-008] and Responses to ExA’s First Written Questions by the Environment Agency (EA) [REP2-064]). This response identified that the majority of the updates to the relevant DMRB guidance would not affect the assessment detailed in **Chapter 8: Biodiversity** of the ES [APP-029]. However, the response also identified that additional assessment work was required to determine the impact of certain DMRB air quality updates on the overall conclusions of **Chapter 8: Biodiversity** of the ES [APP-029].
- 1.1.4. In particular, the initial response detailed that:
- a. Changes to the advice on ecological assessment would introduce additional ecological receptors into the assessment, including local nature reserves and ancient woodland.
 - b. Further nitrogen deposition changes would require assessment where previously they were screened out using the IAN 174/13 ‘Assessment of Significant Air Quality Effects’ guidance.
- 1.1.5. This report presents the assessment of additional likely significant environmental effects of the Scheme on biodiversity with regards to air quality, taking the above factors into account in accordance with the updated DMRB guidance LA 105 Air Quality (**Ref. 1**). LA 105 replaces previous guidance with regards to air quality: HA 207/07, IAN 170/12, IAN 174/13, IAN 175/13 and part of IAN 185/15.
- 1.1.6. The changes to the assessment methodology in terms of ecological receptors sensitive to nitrogen deposition are outlined in **Appendix A: Air Quality Modelling Results** of this report.
- 1.1.7. A full description of the Scheme is provided in **Chapter 2: The Scheme** of the ES [APP-023].

2 BIODIVERSITY ASSESSMENT

2.1 ASSESSMENT METHODOLOGY

SCOPE OF ASSESSMENT

- 2.1.1. In accordance with LA 105 Air Quality (**Ref. 1**), the air quality assessment should include an assessment of the impacts on “designated habitats” of international, national and local ecological conservation interest for protected/notable species and habitats within 200m of the Affected Road Network (ARN), see **Figure 5.1: Air Quality Study Area** of the ES [**APP-042**], as determined by the air quality modelling (**Appendix A: Air Quality Modelling Results** of this report). In accordance with LA 105 Air Quality, designated habitats include Ramsar sites, Special Protection Areas (SPAs), Special Areas of Conservation (SACs), Sites of Special Scientific Interest (SSSIs), Local Nature Reserves (LNRs), Local Wildlife Sites (LWSs), Nature Improvement Areas (NIAs), ancient woodland and veteran trees. Of these receptors, NIAs and veteran trees were not scoped into the assessment reported in the **Chapter 8: Biodiversity** of the ES [**APP-029**]. In accordance with LA 105, these receptors were scoped into the air quality assessment described in **Appendix A: Air Quality Modelling Results** of this report.
- 2.1.2. The Woodland Trust classifies trees of special interest as ‘ancient’, ‘veteran’ and ‘notable’ (**Ref. 2**). Both ancient and veteran trees are considered of similar and high ecological importance and are irreplaceable (much the same as ancient woodland). As such, both ancient and veteran trees have been scoped into the assessment. Notable trees are of importance within their local environment in comparison to their surroundings. However, as notable trees may be young and not necessarily serve the same ecological function as that of an ancient or veteran tree, notable trees are not included within this assessment.
- 2.1.3. As detailed in **paragraph 5.4.9 of Chapter 5: Air Quality** of the ES [**APP-026**], it was determined that the potential local air quality impacts from construction traffic emissions would be unlikely to give rise to significant effects and therefore no further assessment was required in relation to construction. While the determination in **Chapter 5: Air Quality** of the ES [**APP-026**] was a result of analysis against the now superseded DMRB HA207/07 scoping criteria, the DMRB sensitivity test for this chapter concluded that the criteria used remained valid under the updated guidance (LA 105 Air Quality) (**Ref. 1**). As such, only operational impacts on air quality are considered in this report.

GUIDANCE

- 2.1.4. The ecological assessment detailed within this document has been undertaken using the approach detailed in the Chartered Institute of Ecology and Environmental Management (CIEEM) Guidelines for Ecological Impact Assessment (**Ref. 3**) and LA 105 Air Quality (**Ref. 1**).
- 2.1.5. To characterise and assess the impacts of the Scheme, LA 104 Environmental Assessment and Monitoring (**Ref. 4**) and LA 108 Biodiversity (**Ref. 5**) have been used, which make reference to CIEEM guidance.

DESK STUDY

- 2.1.6. With the exception of NIAs and ancient/veteran trees, all other designated sites were identified as part of the ecological impact assessment presented within **Chapter 8: Biodiversity** of the ES [APP-029] of the ES.
- 2.1.7. A desk study exercise was undertaken in March 2020 to identify NIAs and ancient/veteran trees. NIAs were identified from the Natural England website (**Ref. 6**). Ancient/veteran trees were identified from the Woodland Trust Ancient Tree Inventory (**Ref. 7**).

NATURE CONSERVATION EVALUATION

- 2.1.8. The same method of determining the importance of an ecological receptor has been followed, as detailed in **paragraph 8.4.7** and **Table 8-5** of **Chapter 8: Biodiversity** of the ES [APP-029]. The methodology for assigning importance complies with the approach in the updated DMRB guidance presented in LA 108 Biodiversity (**Ref. 5**).

CHARACTERISATION OF POTENTIAL IMPACTS

- 2.1.9. Characterisation of potential impacts, as detailed in **paragraph 8.4.9** of **Chapter 8: Biodiversity** of the ES [APP-029], included whether the impact was positive (beneficial) or negative (adverse), the probability of the impact occurring (certain, probable, unlikely), its complexity (direct, indirect, cumulative), extent, size, duration, reversibility and timing/duration.
- 2.1.10. As detailed in **paragraph 5.4.9** of **Chapter 5: Air Quality** of the ES [APP-026], it was determined that the potential local air quality impacts from construction traffic emissions would be unlikely to give rise to significant effects and therefore no further assessment was required in relation to construction. As such, only operational impacts on air quality are considered.

SIGNIFICANCE OF EFFECTS

- 2.1.11. The assessment of significance of effects in this report has taken into account the assessment methodology outlined in Figure 2.98 "*Assessment of significant effects on designated sites*" of LA 105 Air Quality (**Ref. 1**).
- 2.1.12. For designated habitats, nitrogen deposition is used as the main basis for evaluating significant effects in relation to air quality. Significance of effects has been considered where the change in total nitrogen deposition rate (kg N/ha/yr) with the Scheme ("Do Something" scenario) in comparison to the future baseline ("Do Minimum" scenario) was >1% (as an absolute number) of the critical load¹ for the site/habitat and the critical load

¹ APIS (**Ref. 9**) cites the definition of the critical load as "*a quantitative estimate of exposure to one or more pollutants below which significant harmful effects on specified sensitive elements of the environment do not occur according to present knowledge*".

was exceeded. It should be noted that, in all instances, the critical load of the designated habitat was exceeded with or without the Scheme.

- 2.1.13. Critical loads for sites/habitats were ascertained from the Air Pollution Information System (APIS) database (**Ref. 8**). Where a range in the critical load was provided for a particular ecological receptor, the lowest value in the range was used to give a worst-case assessment (known as the lower critical load). As detailed in paragraph 2.90 of LA 105 Air Quality (**Ref 1**) where the lower critical load of a site or habitat is exceeded with the Scheme but an increase in concentration of less than 1% of the critical load occurs, the impact is considered imperceptible and unlikely to be significant.
- 2.1.14. For each designated site, the air quality assessment modelled predicted changes in air quality at 10m intervals along 200m length linear transects (**Figures A1.1 and A1.2 in Appendix B: Ecological Transects** of this report) perpendicular to the affected road starting from the nearest point of the designated habitat. Further details and the findings of the air quality modelling are presented within **Appendix A: Air Quality Modelling Results** of this report.
- 2.1.15. Where the change in nitrogen deposition is >1% of the critical load, LA 105 Air Quality (**Ref. 1**) prescribes a need to identify whether the designated habitat air quality attribute target for the site is either “Restore” or “Maintain”. As there are no data available to inform this for the ecological receptors considered within this assessment, both scenarios have been presented. It is important to note that LA 105 Air Quality (**Ref. 1**) states that it is presumed that *“the air quality attribute for most designated habitats has been set to restore and the air quality assessment is completed on this basis”*. Using the ‘Restore’ approach, as prescribed in LA 105 Air Quality (**Ref. 1**) represents a reasonable worst case assessment. This is because using the most sensitive habitat to nitrogen deposition as a proxy for the designated habitat being considered is already a reasonable worst case approach. In contrast, using the actual background deposition levels² (as for the “Maintain” approach in Figure 2.98 of LA 105 Air Quality) rather than a theoretical deposition level of 5 kg N/ha/yr (as for the “Restore” approach in Figure 2.98 of LA 105 Air Quality) is likely to better reflect the conditions at the ecological receptors considered within this assessment. As such, the findings in accordance with the “Maintain” approach are presented for comparison against the findings under the ‘Restore’ approach.
- 2.1.16. LA 105 Air Quality (**Ref. 1**) requires an assessment to determine if the change in nitrogen deposition would lead to the theoretical loss of one plant species using Table 21 of the

Air Pollution Information System (APIS). 2020. *Critical Loads and Critical Levels - a guide to the data provided in APIS*. Available online at: http://www.apis.ac.uk/critical-loads-and-critical-levels-guide-data-provided-apis#_Toc279788050 [Accessed March 2020].

² Which represents 5km average deposition data taken from APIS.

nitrogen deposition dose response report published by Natural England (**Ref. 9**). The study within the Natural England report only considered certain habitats: upland and lowland heath, sand dune, grassland, bog (raised and blanket) and acid grassland. The designated habitats considered within this assessment are designated for their woodland habitat. The Natural England study does not provide comparable data to inform the dose of nitrogen deposition that would theoretically lead to the loss of one species³. Therefore, in accordance with LA 105 Air Quality, using the Natural England dose response report, *“the habitat with the lowest change in nitrogen deposition likely to lead to the loss of one species, excluding nutrient impoverished sand dunes, shall be used to inform the judgement of significant air quality effects.”*

- 2.1.17. **Table 2-1** below, which is based on Table 21 of the Natural England dose response report, summarises the criteria used to determine if the change in nitrogen deposition would lead to the theoretical loss of one plant species. It should be noted that Table 21 provides the lowest change in nitrogen deposition likely to lead to a reduction of species-richness of one at different background nitrogen levels, to be used for those designated habitats covered by the Natural England dose response report. This is not the same as an actual prediction of causing the loss of one species.
- 2.1.18. In accordance with LA 105 Air Quality (**Ref. 1**), for the “Restore” scenario the lowest change in nitrogen deposition that would bring about a change theoretically equivalent to the loss of one plant species is used regardless of background nitrogen deposition. Therefore, an increase of 0.4kg N/ha/yr (**Table 2-1**) is used as the threshold for the theoretical loss of one plant species and determination of a potentially significant effect.
- 2.1.19. In accordance with LA 105 Air Quality (**Ref. 1**), for the “Maintain” scenario the lowest change in nitrogen deposition that would bring about a change theoretically equivalent to the loss of one plant species corresponding to the background nitrogen deposition is used as the threshold. Where the background nitrogen deposition falls between two categories, the lower category has been used, as a precautionary approach.

³ It should be noted that the information presented in Table 21 of NECR210 (**Ref. 10**) does not actually refer to doses of nitrogen that would theoretically lead to the loss of one species. The data presented refers to doses of nitrogen, based on a combination of experimental data reviewed in the report, that would reduce species richness in each habitat by one. This is an important distinction which should not be lost sight of when interpreting Table 21 of NECR 210.

Table 2-1 - Nitrogen Deposition Changes that may Result in the Theoretical Loss of Species Richness⁴

Increase in nitrogen (N) deposition (kg N/ha/yr) required to reduce measured species richness by one plant species at different annual background N deposition levels					
5 kg N	10 kg N	15 kg N	20 kg N	25 kg N	30 kg N
0.4	0.8	1.3	1.7	2.0	2.4

- 2.1.20. Where the Scheme would result in a theoretical reduction in species richness equivalent to the loss of one plant species, this is identified as a significant effect.
- 2.1.21. Following the above, LA 105 Air Quality (**Ref. 1**) proposes that detailed site investigations are undertaken where this threshold for significance is exceeded. Due to time constraints associated with this assessment and Government restrictions imposed as a result of the national response to COVID-19, it has not been possible to undertake site investigations. It has therefore not been possible to fully qualify the level of significance in accordance with LA 104 Environmental Assessment and Monitoring (**Ref. 4**) (Neutral, Slight, Moderate, Large or Very Large), other than to state whether the potential for a significant effect exists. As such, professional judgement has been used to provide a qualified statement regarding the potential level of significance of the effects identified.
- 2.1.22. For the woodland habitats assessed in this report, the lowest change in nitrogen deposition likely to trigger this criteria in Table 21 of the Natural England dose response report was used as a proxy threshold, (**Table 2-1**) as per LA 105 Air Quality (**Ref. 1**) guidance. There is insufficient scientific data or studies to verify that the thresholds used are correct or appropriate when applied to woodland habitats.
- 2.1.23. To verify or confirm the level of significance of effects, detailed site investigations would need to be undertaken and the development of mitigation and monitoring should be considered.

2.2 ASSESSMENT ASSUMPTIONS AND LIMITATIONS

- 2.2.1. As detailed in **paragraph 2.1.19** of this report, professional judgement based on knowledge and experience of similar schemes has been used to provide a qualified statement regarding the potential level of significance of effects identified.

⁴ Based on Table 21 of the Natural England dose response report (**Ref. 7**)

- 2.2.2. Due to the size of the Study Area and time constraints associated with this assessment, a field survey for ancient/veteran trees was not possible. The identification of ancient/veteran trees was informed by the Woodland Trust's Ancient Tree Inventory (**Ref. 7**). However, this is considered proportionate and appropriate for this assessment.
- 2.2.3. The majority of designated habitats considered within this assessment are designated for their woodland habitat and as such, the Natural England study (**Ref. 9**) does not provide comparable data to inform the dose of nitrogen deposition that would theoretically lead to the loss of one species⁵. The lowest change in nitrogen deposition likely to lead to the loss of one species from Table 21 of the Natural England dose response report (**Ref. 9**) was used as a proxy threshold (**Table 2-1**), as per LA 105 Air Quality guidance. There is insufficient scientific data or studies to verify that the thresholds used are correct or appropriate when applied to woodland or tree habitats.
- 2.2.4. Due to time constraints associated with this assessment and Government restrictions imposed as a result of the national response to COVID-19, it has not been possible to undertake detailed site investigations where the assessment identifies the potential theoretical loss of one plant species and therefore a potentially significant effect. This is acknowledged within this appendix and a conservative significance of effect has been determined based on professional judgement. To verify or confirm the level of significance of effects, detailed site investigations would need to be undertaken and the development of mitigation and monitoring should be considered. As a conservative approach has been taken in this assessment, it is considered unlikely that further site investigations would change the conclusions of this report.

2.3 STUDY AREA

- 2.3.1. As required under LA 105 Air Quality (**Ref. 1**), the Study Area is defined as 200m from the ARN (as established by the air quality modelling and presented in **Chapter 5: Air Quality** of the ES [**APP-026**] and in particular, **Figure 5.1: Air Quality Study Area** of the ES [**APP-042**]).

2.4 BASELINE CONDITIONS

- 2.4.1. In addition to ecological receptors identified in **Chapter 8: Biodiversity** of the ES [**APP-029**], ancient/veteran trees were also identified within the Study Area. These are listed along with air quality modelling in **Appendix A: Air Quality modelling report** of this report.

⁵ It should be noted that the information presented in Table 21 of NECR210 (**Ref. 9**) does not actually refer to doses of nitrogen that would theoretically lead to the loss of one species. The data presented refers to doses of nitrogen, based on a combination of experimental data reviewed in the report, that would reduce species richness in each habitat by one. This is an important distinction which should not be lost sight of when interpreting Table 21 of NECR 210.

As ancient and veteran trees are irreplaceable habitat, they are considered of comparable importance to ancient woodland. As such, ancient and veteran trees are considered of National importance.

2.4.2. No NIAs were recorded within or adjacent to the Scheme.

2.5 POTENTIAL IMPACTS

2.5.1. The assessment considered increased nitrogen deposition as a result of the Scheme. Nitrogen is a major growth nutrient and changes in nitrogen deposition can result in negative impacts on biodiversity, including: loss of sensitive species, changes to habitat structure and function, the homogenisation of vegetation types, changes in soil chemistry and an increased sensitivity to abiotic and biotic stresses (such as pests and climate) (**Ref. 9, Ref. 11**).

3 LIKELY SIGNIFICANT EFFECTS

3.1.1. This section identifies changes in nitrogen deposition that may lead to significant effects as a result of the Scheme. Ancient and veteran trees and the following ecological receptors did not experience a change in nitrogen deposition >1% of the critical load for either the “Restore” or “Maintain” approaches. As such, the change in nitrogen deposition would result in Neutral (not significant) effects and these ecological receptors are not considered further within this assessment:

- a. Shibdon Pond SSSI;
- b. Benwell Nature Park LNR;
- c. Cross Lane Meadows LNR;
- d. Denton Dene LNR;
- e. Shibdon Pond LNR;
- f. Axwell Park and Lake LWS;
- g. Big Waters LWS;
- h. Birtley Northside LWS;
- i. Bowes Railway LWS;
- j. Denton Dene LWS;
- k. Dunkirk Pond LWS;
- l. Lamesley Meadows LWS;
- m. Little Waters LWS;
- n. Longacre Dean LWS;
- o. Ravensworth Ponds and Wood LWS;
- p. River Tyne Tidal Extent LWS;
- q. Scotswood Natural Comm Garden LWS;
- r. Sheddon’s Hill LWS;
- s. Shibdon Meadow LWS;
- t. Shibdon Pond West LWS;
- u. Team Colliery LWS;
- v. Vigo Wood and Railway Embankment LWS;
- w. Cherry Banks ancient woodland;
- x. Denton Green ancient woodland;
- y. Longacre Dene ancient semi-natural woodland; and
- z. Sugley Dene ancient woodland.

3.1.2. A summary of where likely significant effects may occur is presented in **Table 3-1**, with qualified statements presented below for those ecological receptors where the increase in nitrogen deposition may theoretically lead to a reduction in species-richness equivalent to the loss of one species. Where the change in nitrogen deposition is not likely to result in a significant effect at receptors, which includes Hill Head Wood ancient woodland (**Table 3-1**), these sites are not discussed further.

OPERATION

Dunkirk Farm West Local Wildlife Site

- 3.1.3. Dunkirk Farm West LWS is located within 200m and directly to the east of the ARN, but habitats within the LWS that might have been significantly affected by operational changes in air quality are present within the Study Area at this location. These habitats will be lost as a direct result of the Scheme. As habitats removed can no longer be affected by operational changes in air quality, this site is not considered further in this assessment. The loss of habitat as a result of the Scheme, including habitats lost at Dunkirk Farm West LWS is assessed at **paragraph 8.9 of Chapter 8: Biodiversity** of the ES [APP-029].

Longacre Wood Local Wildlife Site

- 3.1.4. Longacre Wood LWS is located within 200m and directly west of the ARN along the A1 road. Air quality modelling (**Appendix A: Air Quality Modelling Report** of this report) showed that there would be an increase in nitrogen deposition as a result of the Scheme when taking the “Restore” approach along transect LWS_LA2 (See **Appendix A: Air Quality Modelling Report** of this report and **Table 3-1** below). The increase in nitrogen deposition exceeds 0.4kg N/ha/yr (the conservative “Restore” lower limit for causing a theoretical reduction in species-richness equivalent to the loss of one species) at 0.9kg N/ha/yr up to a distance of 10m into the designated woodland habitat.
- 3.1.5. Of the 22.8ha of woodland habitat within the LWS, a maximum of 0.6ha would be subject to a significant increase in nitrogen deposition as a result of the Scheme when taking the “Restore” approach. This is the maximum area between 0m and 10m along transect LWS_LA2 where there would be an increase in nitrogen deposition, and LWS_LA3 (**Appendix A: Air Quality Modelling Report** of this report) where there would not be an increase, as shown in **Table 3-1**. This maximum area impacted represents 2.7% of the total LWS. As such, under the “Restore” approach, a **slight** indirect, permanent adverse effect (not significant) would be predicted to occur.
- 3.1.6. It is important to highlight that in taking the “Maintain” approach the LWS would not be subject to increases in nitrogen deposition that are likely to result in a theoretical reduction in species richness equivalent to the loss of one plant species. As such, under the “Maintain” approach, a significant effect would not be predicted to occur.
- 3.1.7. As detailed in **paragraph 2.7.1 of Chapter 2: The Scheme** of the ES [APP-023], design measures relevant to biodiversity have been incorporated into the Scheme in order to reduce impacts to Longacre Wood LWS. This includes the earthwork designs adjacent to Longacre Wood LWS which have been revised from 1:3 to 1:2 slope to avoid all permanent land take and loss of woodland from Longacre Woods LWS. The approach to the Landscape Mitigation Design (**Figure 7.6: Landscape Mitigation Design** of the ES [APP-061]) has sought to result in ecological enhancement in the longer term where possible. The design includes enhancing the wildlife corridors between Longacre Wood LWS and the existing wildlife corridor to the west.

- 3.1.8. Taking into account the enhancement measures relating to Longacre Wood LWS and the relatively small proportion of 2.7% of the designated habitats impacted by a potentially significant increase in nitrogen, and taking a precautionary view based on the “Restore” approach, the Scheme would result in a Slight indirect, permanent adverse effect (not significant) to the Longacre Wood LWS.

Table 3-1 - Ecological Receptors and Potential for Likely Significant Effects to Occur (“Restore” and “Maintain”)

Transect Reference	Designated Habitat(s)	Lowest Critical Load (kg N/ha/yr)	Restore			Maintain			
			Change in N deposition (kg N/ha/yr) between Do Minimum and Do Something at 0m ⁶	Distance along transect the increase in N deposition (kg N/ha/yr) between Do Minimum and Do Something exceeds 0.4kg N/ha/yr	Potential Significant Effect (Yes or No) ⁷	Background nitrogen deposition (5 km average deposition from APIS (kg N/ha/yr))	Increase N deposition (kg N/ha/yr) resulting in loss of one species (threshold)	Distance along transect the increase in N deposition (kg N/ha/yr) between Do Minimum and Do Something exceeds threshold	Potential Significant Effect (Yes or No) ⁸
LWS_DF1	Dunkirk Farm West LWS	10	0.7	20m	Yes	28.84	2.0	0.0	No
LWS_LA2	Longacre Wood LWS	10	0.9	10m	Yes	28.84	2.0	0.0	No
LWS_LA3	Longacre Wood LWS	10	0.2	0.0	No	28.84	2.0	0.0	No
AWO_HH1	Hill Head Wood Ancient Woodland	10	0.3	0.0	No	25.76	2.0	0.0	No

⁶ 0m is used as this represents the nearest location to the road where an increase in nitrogen deposition may affect a designated habitat and would represent the largest increase in nitrogen deposition as levels of deposition decrease with increasing distance from the ARN.

⁷ Significant (Yes) when the increase in nitrogen exceeds 0.4 kg N/ha/yr and therefore may result in the theoretical loss of one plant species.

⁸ Significant (Yes) when the increase in nitrogen exceeds the threshold identified and therefore may result in the theoretical loss of one plant species.

4 CONCLUSION

- 4.1.1. The assessment has taken into account the enhancement measures relating to Longacre Wood LWS and the relatively small proportion of 2.7% of the designated habitats impacted by a potentially significant increase in nitrogen. Taking a precautionary view based on the “Restore” approach, the Scheme would result in a Slight indirect, permanent adverse effect (not significant) to the Longacre Wood LWS.
- 4.1.2. However, as identified within **Section 2** of this report, detailed site investigations would be required in order to verify the significance of effect and complete the methodology prescribed in LA 105 Air Quality (**Ref. 1**). This would confirm if species susceptible to changes in nitrogen are present within the designated habitats potentially impacted. While this exercise has not been carried out for the assessment, the conclusions of this report remain valid based on the guidance used and professional judgement applied and from applying a precautionary approach. As a conservative approach has been taken in this assessment, it is considered unlikely that further site investigations would change the conclusions of this report.

5 ABBREVIATIONS

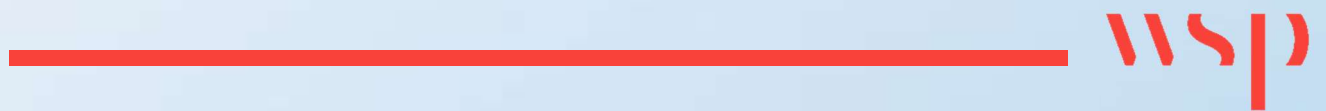
Acronym	Definition
APIS	Air Pollution Information Systems
ARN	Affected Road Network
CIEEM	Chartered Institute of Ecology and Environmental Management
DCO	Development Consent Order
DMRB	Design Manual for Roads and Bridges
ES	Environmental Statement
ExA	Examining Authority
LNR	Local Nature Reserve
LWS	Local Wildlife Site
NIA	Nature Improvement Area
SAC	Special Area of Conservation
SPA	Special Protection Area
SSSI	Site of Special Scientific Interest
WQ	Written Question

6 REFERENCES

- Ref. 1** Highways Agency *et. al.* Design Manual for Roads and Bridges (2019). *LA 105 Air Quality*. Revision 0, November 2019.
- Ref. 2** Woodland Trust (2008). *Ancient tree guide 4: What are ancient, veteran and other trees of special interests*. November 2008. Woodland Trust.
- Ref. 3** CIEEM (2018). *Guidelines for Ecological Impact Assessment in the UK and Ireland: Terrestrial, Freshwater, Coastal and Marine version 1.1*. Chartered Institute of Ecology and Environmental Management, Winchester.
- Ref. 4** Highways Agency *et. al.* Design Manual for Roads and Bridges (2019). *LA 104 Environmental Assessment and Monitoring*. Revision 1, July 2019.
- Ref. 5** Highways Agency *et. al.* Design Manual for Roads and Bridges (2020). *LA 108 Biodiversity*. Revision 1, March 2020.
- Ref. 6** Natural England. *Nature Improvement Areas: locations and progress*. <https://www.gov.uk/government/publications/nature-improvement-areas-improved-ecological-networks/nature-improvement-areas-locations-and-progress> [Accessed March 2020].
- Ref. 7** Woodland Trust. *Ancient Tree Inventory*. <https://ati.woodlandtrust.org.uk/tree-search/> [Accessed March 2020].
- Ref. 8** Air Pollution Information System (APIS) website. <http://www.apis.ac.uk/> [Accessed March 2020].
- Ref. 9** Natural England (2016). *Assessing the effects of small increments of atmospheric nitrogen deposition (above the critical load) on semi-natural habitats of conservation importance*. Natural England Commissioned Report NECR210, 23 March 2016.
- Ref. 10** Highways England. Interim Advice Note 174/13. *Updated advice for evaluating significant local air quality effects for users of DMRB Volume 11, Section 3, Part 1 'Air Quality (HA207/07)*.
- Ref.11** Whitfield, C. (2014). *Nitrogen deposition impacts on biodiversity*. JNCC, November 2014.

Appendix A

AIR QUALITY MODELLING RESULTS



AIR QUALITY METHODOLOGY

SCOPE OF ASSESSMENT

The scope of the assessment was to determine the effects arising from a change to air quality arising from the Scheme in accordance with LA 105 Air Quality (**Ref. 1**), where there may be a significant change in both methodology and scope to the guidance referred to in the ES [**APP-023**]. In terms of ecological receptors sensitive to nitrogen deposition, the change to the guidance is set out below:

- Sensitive receptors for ecology have been extended – see further detail below.
- For ecological receptors scoped into the assessment:
- Nitrogen deposition must be calculated irrespective of change in nitrogen oxide (NO_x) concentrations.
- Deposition velocity used in the calculation of nitrogen deposition has increased, with differentiation between short and tall vegetation (N.B. the velocity has increased in all cases, meaning a likely increase in both total deposition and Scheme impacts).
- Background nitrogen deposition no longer reduced by 2% per year – this will result in higher overall levels of nitrogen deposition, meaning a higher likelihood that the critical load will be exceeded in the Scheme opening year across all sites.

In terms of designated ecological receptors sensitive to nitrogen deposition, the following sites are scoped in for consideration:

- **Ramsar sites** – scoped in under previous guidance, none within 200m of the ARN;
- **Special Protection Areas (SPAs)** – scoped in under previous guidance, none within 200m of the ARN;
- **Special Areas of Conservation (SACs)** – scoped in under previous guidance, none within 200m of the ARN;
- **Sites of Special Scientific Interest (SSSIs)** – scoped in under previous guidance, one site within 200m of the ARN, assessment of nitrogen deposition effects considered not significant as set out in section 5.8 of the ES [APP-026];
- **Local Nature Reserves (LNRs)** – not previously considered as per previous guidance;
- **Local Wildlife Sites (LWSs)** – not previously considered as per previous guidance;
- **Nature Improvement Areas** – not previously considered as per previous guidance;
- **Ancient woodland** – not previously considered as per previous guidance; and
- **Veteran trees** – not previously considered as per previous guidance.

MODELLING METHODOLOGY

The model built for the ES was used to calculate nitrogen dioxide concentrations at transects covering all ecological designations within 200m of the ARN. Each transect

extends perpendicularly away from the roadside at 10m increments, starting at the closest point within the designation to the ARN.

Dry deposition rates were calculated from the road contribution to ambient nitrogen dioxide concentrations using deposition velocities for both long and short vegetation taken from the “Calculation of Nitrogen Deposition” section of LA105 (**Ref. 1**). These values were added to background levels, derived from APIS, in order to calculate the total nitrogen deposition. Total Nitrogen deposition levels were calculated for both long and short vegetation types at all receptors, as per the guidance set out in line 2.44.1 LA 105 Air Quality (**Ref. 1**), where each habitat type is present within the designation.

Nitrogen deposition levels are presented for both the Do Minimum (DM) and Do Something (DS) scenarios, the current deposition levels taken from APIS, alongside the relevant critical load for the site (all as kg N/ha/yr) and the Scheme impact as a percentage of the critical load (as %).

The table below sets out the receptor transect name, and the corresponding site name and designation.

Transect Name	Name	Designation
LWS_BW	Big Waters	Local Wildlife Site
LWS_LW	Little Waters	Local Wildlife Site
AWO_SD	Sugley Dene	Ancient Woodland
LWS_DD	Denton Dene	Local Wildlife Site
LNR_DD	Denton Dene	Local Nature Reserve
LWS_SN	Scotswood Natural Comm Garden	Local Wildlife Site
LNR_BN	Benwell Nature Park	Local Nature Reserve
LWS_RT	River Tyne Tidal Extent	Local Wildlife Site
LNR_SP	Shibdon Pond	Local Nature Reserve
SSI_SP	Shibdon Pond	SSSI
LWS_SM	Shibdon Meadow	Local Wildlife Site
LWS_AP	Axwell Park and Lake	Local Wildlife Site
LNR_CL	Cross Lane Meadows	Local Nature Reserve
AWO_HH	Hill Head Wood	Ancient Woodland
LWS_RP	Ravensworth Ponds	Local Wildlife Site
LWS_LA	Long Acre Wood	Local Wildlife Site
LWS_LM	Lamesley Meadows	Local Wildlife Site
LWS_TC	Team Colliery	Local Wildlife Site
LWS_LD	Long Acre Dene	Local Wildlife Site

Transect Name	Name	Designation
LWS_BR	Bowes Railway	Local Wildlife Site
LWS_DF	Dunkirk Farm West	Local Wildlife Site
LWS_DP	Dunkirk Pond	Local Wildlife Site
LWS_SH	Sheddons Hill	Local Wildlife Site
LWS_BN	Birtley Northside	Local Wildlife Site
LWS_VW	Vigo Wood and Railway	Local Wildlife Site
AWO_CB	Cherry Banks	Ancient Woodland

NITROGEN DEPOSITION RESULTS

The following data were used to undertake an assessment of significance of the air quality impacts to ecological designations. The receptor name sets out the designation name and type, as per the table above, with multiple transects per site. The last three digits of the receptor names within the results tables for short and long deposition indicate the distance from the edge of the designation boundary.

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
AWO_CB1_000	428091	552953	16.24	No Habitat	-	-	No Habitat
AWO_CB1_010	428101	552954	16.24	No Habitat	-	-	No Habitat
AWO_CB1_020	428111	552955	16.24	No Habitat	-	-	No Habitat
AWO_CB1_030	428121	552956	16.24	No Habitat	-	-	No Habitat
AWO_CB1_040	428131	552957	16.24	No Habitat	-	-	No Habitat
AWO_CB1_050	428141	552958	16.24	No Habitat	-	-	No Habitat
AWO_CB1_060	428151	552959	16.24	No Habitat	-	-	No Habitat
AWO_CB1_070	428161	552960	16.24	No Habitat	-	-	No Habitat
AWO_CB1_080	428171	552961	16.24	No Habitat	-	-	No Habitat
AWO_CB1_090	428181	552963	16.24	No Habitat	-	-	No Habitat
AWO_CB1_100	428191	552964	16.24	No Habitat	-	-	No Habitat
AWO_CB1_110	428201	552965	16.24	No Habitat	-	-	No Habitat
AWO_CB1_120	428210	552966	16.24	No Habitat	-	-	No Habitat
AWO_CB1_130	428220	552967	16.24	No Habitat	-	-	No Habitat
AWO_CB1_140	428230	552968	16.24	No Habitat	-	-	No Habitat
AWO_CB1_150	428240	552969	16.24	No Habitat	-	-	No Habitat
AWO_CB1_160	428250	552970	16.24	No Habitat	-	-	No Habitat
AWO_CB1_170	428260	552971	16.24	No Habitat	-	-	No Habitat
AWO_CB1_180	428270	552972	16.24	No Habitat	-	-	No Habitat
AWO_CB1_190	428280	552973	16.24	No Habitat	-	-	No Habitat
AWO_CB1_200	428290	552974	16.24	No Habitat	-	-	No Habitat
AWO_CB2_000	428226	552417	16.24	No Habitat	-	-	No Habitat
AWO_CB2_010	428235	552422	16.24	No Habitat	-	-	No Habitat
AWO_CB2_020	428244	552427	16.24	No Habitat	-	-	No Habitat
AWO_CB2_030	428252	552432	16.24	No Habitat	-	-	No Habitat
AWO_CB2_040	428261	552437	16.24	No Habitat	-	-	No Habitat
AWO_CB2_050	428270	552442	16.24	No Habitat	-	-	No Habitat
AWO_CB2_060	428278	552447	16.24	No Habitat	-	-	No Habitat

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
AWO_CB2_070	428287	552451	16.24	No Habitat	-	-	No Habitat
AWO_CB2_080	428296	552456	16.24	No Habitat	-	-	No Habitat
AWO_CB2_090	428305	552461	16.24	No Habitat	-	-	No Habitat
AWO_CB2_100	428313	552466	16.24	No Habitat	-	-	No Habitat
AWO_CB2_110	428322	552471	16.24	No Habitat	-	-	No Habitat
AWO_CB2_120	428331	552476	16.24	No Habitat	-	-	No Habitat
AWO_CB2_130	428340	552481	16.24	No Habitat	-	-	No Habitat
AWO_CB2_140	428348	552485	16.24	No Habitat	-	-	No Habitat
AWO_CB2_150	428357	552490	16.24	No Habitat	-	-	No Habitat
AWO_CB2_160	428366	552495	16.24	No Habitat	-	-	No Habitat
AWO_CB2_170	428375	552500	16.24	No Habitat	-	-	No Habitat
AWO_CB2_180	428383	552505	16.24	No Habitat	-	-	No Habitat
AWO_CB2_190	428392	552510	16.24	No Habitat	-	-	No Habitat
AWO_CB2_200	428401	552515	16.24	No Habitat	-	-	No Habitat
AWO_HH1_000	424033	559015	15.96	No Habitat	-	-	No Habitat
AWO_HH1_010	424024	559012	15.96	No Habitat	-	-	No Habitat
AWO_HH1_020	424014	559009	15.96	No Habitat	-	-	No Habitat
AWO_HH1_030	424005	559007	15.96	No Habitat	-	-	No Habitat
AWO_HH1_040	423995	559004	15.96	No Habitat	-	-	No Habitat
AWO_HH1_050	423985	559001	15.96	No Habitat	-	-	No Habitat
AWO_HH1_060	423976	558998	15.96	No Habitat	-	-	No Habitat
AWO_HH1_070	423966	558995	15.96	No Habitat	-	-	No Habitat
AWO_HH1_080	423957	558993	15.96	No Habitat	-	-	No Habitat
AWO_HH1_090	423947	558990	15.96	No Habitat	-	-	No Habitat
AWO_HH1_100	423937	558987	15.96	No Habitat	-	-	No Habitat
AWO_HH1_110	423928	558984	15.96	No Habitat	-	-	No Habitat
AWO_HH1_120	423918	558982	15.96	No Habitat	-	-	No Habitat
AWO_HH1_130	423909	558979	15.96	No Habitat	-	-	No Habitat

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
AWO_HH1_140	423899	558976	15.96	No Habitat	-	-	No Habitat
AWO_HH1_150	423889	558973	15.96	No Habitat	-	-	No Habitat
AWO_HH1_160	423880	558970	15.96	No Habitat	-	-	No Habitat
AWO_HH1_170	423870	558968	15.96	No Habitat	-	-	No Habitat
AWO_HH1_180	423861	558965	15.96	No Habitat	-	-	No Habitat
AWO_HH1_190	423851	558962	15.96	No Habitat	-	-	No Habitat
AWO_HH1_200	423841	558959	15.96	No Habitat	-	-	No Habitat
AWO_SD1_000	419129	565826	18.76	No Habitat	-	-	No Habitat
AWO_SD1_010	419126	565816	18.76	No Habitat	-	-	No Habitat
AWO_SD1_020	419123	565807	18.76	No Habitat	-	-	No Habitat
AWO_SD1_030	419121	565797	18.76	No Habitat	-	-	No Habitat
AWO_SD1_040	419118	565787	18.76	No Habitat	-	-	No Habitat
AWO_SD1_050	419116	565778	18.76	No Habitat	-	-	No Habitat
AWO_SD1_060	419113	565768	18.76	No Habitat	-	-	No Habitat
AWO_SD1_070	419111	565758	18.76	No Habitat	-	-	No Habitat
AWO_SD1_080	419108	565749	18.76	No Habitat	-	-	No Habitat
AWO_SD1_090	419105	565739	18.76	No Habitat	-	-	No Habitat
AWO_SD1_100	419103	565729	18.76	No Habitat	-	-	No Habitat
AWO_SD1_110	419100	565720	18.76	No Habitat	-	-	No Habitat
AWO_SD1_120	419098	565710	18.76	No Habitat	-	-	No Habitat
AWO_SD1_130	419095	565700	18.76	No Habitat	-	-	No Habitat
AWO_SD1_140	419093	565691	18.76	No Habitat	-	-	No Habitat
AWO_SD1_150	419090	565681	18.76	No Habitat	-	-	No Habitat
AWO_SD1_160	419087	565671	18.76	No Habitat	-	-	No Habitat
AWO_SD1_170	419085	565662	18.76	No Habitat	-	-	No Habitat
AWO_SD1_180	419082	565652	18.76	No Habitat	-	-	No Habitat
AWO_SD1_190	419080	565642	18.76	No Habitat	-	-	No Habitat
AWO_SD1_200	419077	565633	18.76	No Habitat	-	-	No Habitat

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LNR_BN1_000	421681	563854	17.08	8	17.2	17.2	0.0%
LNR_BN1_010	421679	563844	17.08	8	17.2	17.2	0.0%
LNR_BN1_020	421676	563834	17.08	8	17.2	17.2	0.0%
LNR_BN1_030	421674	563824	17.08	8	17.2	17.2	0.0%
LNR_BN1_040	421672	563815	17.08	8	17.2	17.2	0.0%
LNR_BN1_050	421670	563805	17.08	8	17.2	17.2	0.0%
LNR_BN1_060	421668	563795	17.08	8	17.2	17.2	0.0%
LNR_BN1_070	421666	563785	17.08	8	17.2	17.2	0.0%
LNR_BN1_080	421664	563775	17.08	8	17.2	17.2	0.0%
LNR_BN1_090	421661	563766	17.08	8	17.2	17.2	0.0%
LNR_BN1_100	421659	563756	17.08	8	17.2	17.2	0.0%
LNR_BN1_110	421657	563746	17.08	8	17.2	17.2	0.0%
LNR_BN1_120	421655	563736	17.08	8	17.2	17.2	0.0%
LNR_BN1_130	421653	563727	17.08	8	17.2	17.2	0.0%
LNR_BN1_140	421651	563717	17.08	8	17.2	17.2	0.0%
LNR_BN1_150	421648	563707	17.08	8	17.2	17.2	0.0%
LNR_BN1_160	421646	563697	17.08	8	17.2	17.2	0.0%
LNR_BN1_170	421644	563688	17.08	8	17.2	17.2	0.0%
LNR_BN1_180	421642	563678	17.08	8	17.2	17.2	0.0%
LNR_BN1_190	421640	563668	17.08	8	17.2	17.2	0.0%
LNR_BN1_200	421638	563658	17.08	8	17.2	17.2	0.0%
LNR_CL1_000	421260	562247	17.08	10	19.2	19.2	-0.1%
LNR_CL1_010	421257	562238	17.08	10	18.4	18.4	-0.1%
LNR_CL1_020	421254	562228	17.08	10	18.0	18.0	-0.1%
LNR_CL1_030	421252	562218	17.08	10	17.8	17.8	-0.1%
LNR_CL1_040	421249	562209	17.08	10	17.7	17.7	-0.1%
LNR_CL1_050	421246	562199	17.08	10	17.6	17.6	-0.1%
LNR_CL1_060	421244	562189	17.08	10	17.6	17.5	0.0%

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LNR_CL1_070	421241	562180	17.08	10	17.5	17.5	0.0%
LNR_CL1_080	421238	562170	17.08	10	17.5	17.5	0.0%
LNR_CL1_090	421236	562161	17.08	10	17.4	17.4	0.0%
LNR_CL1_100	421233	562151	17.08	10	17.4	17.4	0.0%
LNR_CL1_110	421230	562141	17.08	10	17.4	17.4	0.0%
LNR_CL1_120	421228	562132	17.08	10	17.4	17.4	0.0%
LNR_CL1_130	421225	562122	17.08	10	17.3	17.3	0.0%
LNR_CL1_140	421222	562112	17.08	10	17.3	17.3	0.0%
LNR_CL1_150	421220	562103	17.08	10	17.3	17.3	0.0%
LNR_CL1_160	421217	562093	17.08	10	17.3	17.3	0.0%
LNR_CL1_170	421214	562083	17.08	10	17.3	17.3	0.0%
LNR_CL1_180	421212	562074	17.08	10	17.3	17.3	0.0%
LNR_CL1_190	421209	562064	17.08	10	17.3	17.3	0.0%
LNR_CL1_200	421206	562055	17.08	10	17.3	17.3	0.0%
LNR_DD1_000	419448	564830	16.24	No Habitat	-	-	No Habitat
LNR_DD1_010	419458	564830	16.24	No Habitat	-	-	No Habitat
LNR_DD1_020	419468	564829	16.24	No Habitat	-	-	No Habitat
LNR_DD1_030	419478	564829	16.24	No Habitat	-	-	No Habitat
LNR_DD1_040	419488	564829	16.24	No Habitat	-	-	No Habitat
LNR_DD1_050	419498	564829	16.24	No Habitat	-	-	No Habitat
LNR_DD1_060	419508	564829	16.24	No Habitat	-	-	No Habitat
LNR_DD1_070	419518	564829	16.24	No Habitat	-	-	No Habitat
LNR_DD1_080	419528	564829	16.24	No Habitat	-	-	No Habitat
LNR_DD1_090	419538	564829	16.24	No Habitat	-	-	No Habitat
LNR_DD1_100	419548	564829	16.24	No Habitat	-	-	No Habitat
LNR_DD1_110	419558	564829	16.24	No Habitat	-	-	No Habitat
LNR_DD1_120	419568	564829	16.24	No Habitat	-	-	No Habitat
LNR_DD1_130	419578	564829	16.24	No Habitat	-	-	No Habitat

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LNR_DD1_140	419588	564829	16.24	No Habitat	-	-	No Habitat
LNR_DD1_150	419598	564829	16.24	No Habitat	-	-	No Habitat
LNR_DD1_160	419608	564829	16.24	No Habitat	-	-	No Habitat
LNR_DD1_170	419618	564829	16.24	No Habitat	-	-	No Habitat
LNR_DD1_180	419628	564829	16.24	No Habitat	-	-	No Habitat
LNR_DD1_190	419638	564829	16.24	No Habitat	-	-	No Habitat
LNR_DD1_200	419648	564829	16.24	No Habitat	-	-	No Habitat
LNR_DD2_000	419727	564698	16.24	No Habitat	-	-	No Habitat
LNR_DD2_010	419718	564700	16.24	No Habitat	-	-	No Habitat
LNR_DD2_020	419708	564703	16.24	No Habitat	-	-	No Habitat
LNR_DD2_030	419698	564706	16.24	No Habitat	-	-	No Habitat
LNR_DD2_040	419689	564709	16.24	No Habitat	-	-	No Habitat
LNR_DD2_050	419679	564712	16.24	No Habitat	-	-	No Habitat
LNR_DD2_060	419670	564714	16.24	No Habitat	-	-	No Habitat
LNR_DD2_070	419660	564717	16.24	No Habitat	-	-	No Habitat
LNR_DD2_080	419650	564720	16.24	No Habitat	-	-	No Habitat
LNR_DD2_090	419641	564723	16.24	No Habitat	-	-	No Habitat
LNR_DD2_100	419631	564725	16.24	No Habitat	-	-	No Habitat
LNR_DD2_110	419621	564728	16.24	No Habitat	-	-	No Habitat
LNR_DD2_120	419612	564731	16.24	No Habitat	-	-	No Habitat
LNR_DD2_130	419602	564734	16.24	No Habitat	-	-	No Habitat
LNR_DD2_140	419593	564736	16.24	No Habitat	-	-	No Habitat
LNR_DD2_150	419583	564739	16.24	No Habitat	-	-	No Habitat
LNR_DD2_160	419573	564742	16.24	No Habitat	-	-	No Habitat
LNR_DD2_170	419564	564745	16.24	No Habitat	-	-	No Habitat
LNR_DD2_180	419554	564747	16.24	No Habitat	-	-	No Habitat
LNR_DD2_190	419545	564750	16.24	No Habitat	-	-	No Habitat
LNR_DD2_200	419535	564753	16.24	No Habitat	-	-	No Habitat

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LNR_SP1_000	419465	563344	16.24	10	19.3	19.0	-2.5%
LNR_SP1_010	419455	563340	16.24	10	17.7	17.6	-1.3%
LNR_SP1_020	419446	563336	16.24	10	17.2	17.1	-0.9%
LNR_SP1_030	419437	563332	16.24	10	17.0	16.9	-0.6%
LNR_SP1_040	419428	563328	16.24	10	16.8	16.8	-0.5%
LNR_SP1_050	419419	563325	16.24	10	16.7	16.7	-0.4%
LNR_SP1_060	419409	563321	16.24	10	16.7	16.6	-0.4%
LNR_SP1_070	419400	563317	16.24	10	16.6	16.6	-0.3%
LNR_SP1_080	419391	563313	16.24	10	16.6	16.6	-0.3%
LNR_SP1_090	419382	563309	16.24	10	16.6	16.5	-0.3%
LNR_SP1_100	419372	563306	16.24	10	16.5	16.5	-0.2%
LNR_SP1_110	419363	563302	16.24	10	16.5	16.5	-0.2%
LNR_SP1_120	419354	563298	16.24	10	16.5	16.5	-0.2%
LNR_SP1_130	419345	563294	16.24	10	16.5	16.5	-0.2%
LNR_SP1_140	419335	563290	16.24	10	16.5	16.4	-0.2%
LNR_SP1_150	419326	563286	16.24	10	16.4	16.4	-0.2%
LNR_SP1_160	419317	563283	16.24	10	16.4	16.4	-0.1%
LNR_SP1_170	419308	563279	16.24	10	16.4	16.4	-0.1%
LNR_SP1_180	419298	563275	16.24	10	16.4	16.4	-0.1%
LNR_SP1_190	419289	563271	16.24	10	16.4	16.4	-0.1%
LNR_SP1_200	419280	563267	16.24	10	16.4	16.4	-0.1%
LWS_AP1_000	419698	562370	16.24	10	16.4	16.4	0.0%
LWS_AP1_010	419692	562362	16.24	10	16.4	16.4	0.0%
LWS_AP1_020	419686	562354	16.24	10	16.4	16.4	0.0%
LWS_AP1_030	419679	562347	16.24	10	16.3	16.3	0.0%
LWS_AP1_040	419673	562339	16.24	10	16.3	16.3	0.0%
LWS_AP1_050	419667	562331	16.24	10	16.3	16.3	0.0%
LWS_AP1_060	419661	562323	16.24	10	16.3	16.3	0.0%

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_AP1_070	419655	562315	16.24	10	16.3	16.3	0.0%
LWS_AP1_080	419649	562307	16.24	10	16.3	16.3	0.0%
LWS_AP1_090	419643	562299	16.24	10	16.3	16.3	0.0%
LWS_AP1_100	419636	562292	16.24	10	16.3	16.3	0.0%
LWS_AP1_110	419630	562284	16.24	10	16.3	16.3	0.0%
LWS_AP1_120	419624	562276	16.24	10	16.3	16.3	0.0%
LWS_AP1_130	419618	562268	16.24	10	16.3	16.3	0.0%
LWS_AP1_140	419612	562260	16.24	10	16.3	16.3	0.0%
LWS_AP1_150	419606	562252	16.24	10	16.3	16.3	0.0%
LWS_AP1_160	419599	562244	16.24	10	16.3	16.3	0.0%
LWS_AP1_170	419593	562236	16.24	10	16.3	16.3	0.0%
LWS_AP1_180	419587	562229	16.24	10	16.3	16.3	0.0%
LWS_AP1_190	419581	562221	16.24	10	16.3	16.3	0.0%
LWS_AP1_200	419575	562213	16.24	10	16.3	16.3	0.0%
LWS_BN1_000	427860	556756	17.92	10	18.3	18.3	-0.1%
LWS_BN1_010	427851	556760	17.92	10	18.3	18.3	-0.1%
LWS_BN1_020	427842	556764	17.92	10	18.3	18.3	-0.1%
LWS_BN1_030	427833	556767	17.92	10	18.3	18.3	-0.1%
LWS_BN1_040	427823	556771	17.92	10	18.3	18.3	-0.1%
LWS_BN1_050	427814	556775	17.92	10	18.3	18.3	-0.1%
LWS_BN1_060	427805	556779	17.92	10	18.3	18.3	-0.1%
LWS_BN1_070	427796	556783	17.92	10	18.3	18.3	-0.1%
LWS_BN1_080	427787	556787	17.92	10	18.3	18.3	-0.1%
LWS_BN1_090	427777	556791	17.92	10	18.3	18.3	-0.1%
LWS_BN1_100	427768	556795	17.92	10	18.3	18.3	-0.1%
LWS_BN1_110	427759	556799	17.92	10	18.3	18.3	-0.1%
LWS_BN1_120	427750	556803	17.92	10	18.3	18.3	-0.1%
LWS_BN1_130	427741	556807	17.92	10	18.3	18.3	-0.1%

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_BN1_140	427731	556810	17.92	10	18.3	18.3	-0.1%
LWS_BN1_150	427722	556814	17.92	10	18.3	18.3	-0.1%
LWS_BN1_160	427713	556818	17.92	10	18.3	18.3	-0.1%
LWS_BN1_170	427704	556822	17.92	10	18.3	18.3	-0.1%
LWS_BN1_180	427695	556826	17.92	10	18.3	18.2	-0.1%
LWS_BN1_190	427685	556830	17.92	10	18.3	18.2	-0.1%
LWS_BN1_200	427676	556834	17.92	10	18.2	18.2	-0.1%
LWS_BN2_000	427841	556833	17.92	5	18.6	18.5	-0.3%
LWS_BN2_010	427837	556824	17.92	5	18.5	18.5	-0.3%
LWS_BN2_020	427832	556815	17.92	5	18.4	18.4	-0.2%
LWS_BN2_030	427828	556806	17.92	5	18.4	18.4	-0.2%
LWS_BN2_040	427824	556797	17.92	5	18.4	18.4	-0.2%
LWS_BN2_050	427820	556788	17.92	5	18.3	18.3	-0.2%
LWS_BN2_060	427816	556779	17.92	5	18.3	18.3	-0.2%
LWS_BN2_070	427811	556770	17.92	5	18.3	18.3	-0.2%
LWS_BN2_080	427807	556761	17.92	5	18.3	18.3	-0.2%
LWS_BN2_090	427803	556752	17.92	5	18.3	18.3	-0.2%
LWS_BN2_100	427799	556743	17.92	5	18.2	18.2	-0.1%
LWS_BN2_110	427795	556734	17.92	5	18.2	18.2	-0.1%
LWS_BN2_120	427791	556725	17.92	5	18.2	18.2	-0.1%
LWS_BN2_130	427786	556715	17.92	5	18.2	18.2	-0.1%
LWS_BN2_140	427782	556706	17.92	5	18.2	18.2	-0.1%
LWS_BN2_150	427778	556697	17.92	5	18.2	18.2	-0.1%
LWS_BN2_160	427774	556688	17.92	5	18.2	18.2	-0.1%
LWS_BN2_170	427770	556679	17.92	5	18.2	18.2	-0.1%
LWS_BN2_180	427765	556670	17.92	5	18.2	18.2	-0.1%
LWS_BN2_190	427761	556661	17.92	5	18.2	18.2	-0.1%
LWS_BN2_200	427757	556652	17.92	5	18.2	18.2	-0.1%

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_BR1_000	426910	557208	17.92	5	20.0	20.0	0.2%
LWS_BR1_010	426903	557202	17.92	5	18.7	18.7	0.0%
LWS_BR1_020	426895	557195	17.92	5	18.5	18.5	0.0%
LWS_BR1_030	426888	557188	17.92	5	18.4	18.4	0.0%
LWS_BR1_040	426880	557182	17.92	5	18.3	18.3	0.0%
LWS_BR1_050	426872	557175	17.92	5	18.3	18.3	0.0%
LWS_BR1_060	426865	557169	17.92	5	18.2	18.2	0.0%
LWS_BR1_070	426857	557162	17.92	5	18.2	18.2	0.0%
LWS_BR1_080	426850	557156	17.92	5	18.2	18.2	0.0%
LWS_BR1_090	426842	557149	17.92	5	18.2	18.2	0.0%
LWS_BR1_100	426835	557143	17.92	5	18.2	18.2	0.0%
LWS_BR1_110	426827	557136	17.92	5	18.1	18.1	0.0%
LWS_BR1_120	426820	557129	17.92	5	18.1	18.1	0.0%
LWS_BR1_130	426812	557123	17.92	5	18.1	18.1	0.0%
LWS_BR1_140	426805	557116	17.92	5	18.1	18.1	0.0%
LWS_BR1_150	426797	557110	17.92	5	18.1	18.1	0.0%
LWS_BR1_160	426789	557103	17.92	5	18.1	18.1	0.0%
LWS_BR1_170	426782	557097	17.92	5	18.1	18.1	0.0%
LWS_BR1_180	426774	557090	17.92	5	18.1	18.1	0.0%
LWS_BR1_190	426767	557084	17.92	5	18.1	18.1	0.0%
LWS_BR1_200	426759	557077	17.92	5	18.1	18.1	0.0%
LWS_BR2_000	426928	557201	17.92	5	21.9	21.9	0.5%
LWS_BR2_010	426936	557206	17.92	5	19.8	19.8	0.2%
LWS_BR2_020	426945	557212	17.92	5	19.2	19.2	0.1%
LWS_BR2_030	426953	557217	17.92	5	18.9	18.9	0.1%
LWS_BR2_040	426961	557223	17.92	5	18.8	18.8	0.0%
LWS_BR2_050	426970	557228	17.92	5	18.7	18.7	0.0%
LWS_BR2_060	426978	557234	17.92	5	18.6	18.6	0.0%

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_BR2_070	426987	557239	17.92	5	18.6	18.6	0.0%
LWS_BR2_080	426995	557245	17.92	5	18.6	18.6	-0.1%
LWS_BR2_090	427003	557250	17.92	5	18.6	18.6	-0.1%
LWS_BR2_100	427012	557256	17.92	5	18.6	18.6	-0.2%
LWS_BR2_110	427020	557261	17.92	5	18.6	18.6	-0.2%
LWS_BR2_120	427028	557267	17.92	5	18.6	18.6	-0.3%
LWS_BR2_130	427037	557272	17.92	5	18.6	18.6	-0.4%
LWS_BR2_140	427045	557278	17.92	5	18.7	18.6	-0.5%
LWS_BR2_150	427053	557283	17.92	5	18.7	18.7	-0.6%
LWS_BR2_160	427062	557289	17.92	5	18.8	18.7	-0.8%
LWS_BR2_170	427070	557294	17.92	5	18.9	18.8	-1.2%
LWS_BR2_180	427078	557300	17.92	5	19.1	19.0	-1.8%
LWS_BR2_190	427087	557305	17.92	5	19.3	19.2	-2.9%
LWS_BR2_200	427095	557311	17.92	5	19.9	19.6	-5.8%
LWS_BW1_000	423465	573354	15.4	10	16.7	16.6	-1.1%
LWS_BW1_010	423455	573353	15.4	10	16.3	16.2	-0.8%
LWS_BW1_020	423445	573352	15.4	10	16.1	16.1	-0.6%
LWS_BW1_030	423435	573350	15.4	10	16.0	16.0	-0.5%
LWS_BW1_040	423425	573349	15.4	10	15.9	15.9	-0.4%
LWS_BW1_050	423416	573348	15.4	10	15.8	15.8	-0.3%
LWS_BW1_060	423406	573346	15.4	10	15.8	15.8	-0.3%
LWS_BW1_070	423396	573345	15.4	10	15.8	15.7	-0.3%
LWS_BW1_080	423386	573343	15.4	10	15.7	15.7	-0.3%
LWS_BW1_090	423376	573342	15.4	10	15.7	15.7	-0.2%
LWS_BW1_100	423366	573341	15.4	10	15.7	15.7	-0.2%
LWS_BW1_110	423356	573339	15.4	10	15.7	15.6	-0.2%
LWS_BW1_120	423346	573338	15.4	10	15.7	15.6	-0.2%
LWS_BW1_130	423336	573337	15.4	10	15.6	15.6	-0.2%

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_BW1_140	423326	573335	15.4	10	15.6	15.6	-0.2%
LWS_BW1_150	423317	573334	15.4	10	15.6	15.6	-0.2%
LWS_BW1_160	423307	573332	15.4	10	15.6	15.6	-0.1%
LWS_BW1_170	423297	573331	15.4	10	15.6	15.6	-0.1%
LWS_BW1_180	423287	573330	15.4	10	15.6	15.6	-0.1%
LWS_BW1_190	423277	573328	15.4	10	15.6	15.6	-0.1%
LWS_BW1_200	423267	573327	15.4	10	15.6	15.6	-0.1%
LWS_BW2_000	423444	573507	15.4	10	17.5	17.3	-1.9%
LWS_BW2_010	423434	573505	15.4	10	16.6	16.5	-1.0%
LWS_BW2_020	423424	573503	15.4	10	16.3	16.2	-0.7%
LWS_BW2_030	423414	573501	15.4	10	16.1	16.0	-0.6%
LWS_BW2_040	423405	573499	15.4	10	16.0	15.9	-0.5%
LWS_BW2_050	423395	573496	15.4	10	15.9	15.9	-0.4%
LWS_BW2_060	423385	573494	15.4	10	15.8	15.8	-0.3%
LWS_BW2_070	423375	573492	15.4	10	15.8	15.8	-0.3%
LWS_BW2_080	423366	573490	15.4	10	15.8	15.7	-0.3%
LWS_BW2_090	423356	573488	15.4	10	15.7	15.7	-0.3%
LWS_BW2_100	423346	573486	15.4	10	15.7	15.7	-0.2%
LWS_BW2_110	423336	573484	15.4	10	15.7	15.7	-0.2%
LWS_BW2_120	423326	573482	15.4	10	15.7	15.6	-0.2%
LWS_BW2_130	423317	573480	15.4	10	15.6	15.6	-0.2%
LWS_BW2_140	423307	573478	15.4	10	15.6	15.6	-0.2%
LWS_BW2_150	423297	573476	15.4	10	15.6	15.6	-0.1%
LWS_BW2_160	423287	573474	15.4	10	15.6	15.6	-0.1%
LWS_BW2_170	423277	573472	15.4	10	15.6	15.6	-0.1%
LWS_BW2_180	423268	573470	15.4	10	15.6	15.6	-0.1%
LWS_BW2_190	423258	573468	15.4	10	15.6	15.6	-0.1%
LWS_BW2_200	423248	573466	15.4	10	15.6	15.6	-0.1%

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_DD1_000	420076	565244	18.06	No Habitat	-	-	No Habitat
LWS_DD1_010	420069	565251	18.06	No Habitat	-	-	No Habitat
LWS_DD1_020	420062	565257	18.06	No Habitat	-	-	No Habitat
LWS_DD1_030	420054	565264	18.06	No Habitat	-	-	No Habitat
LWS_DD1_040	420047	565271	18.06	No Habitat	-	-	No Habitat
LWS_DD1_050	420039	565278	18.06	No Habitat	-	-	No Habitat
LWS_DD1_060	420032	565284	18.06	No Habitat	-	-	No Habitat
LWS_DD1_070	420025	565291	18.06	No Habitat	-	-	No Habitat
LWS_DD1_080	420017	565298	18.06	No Habitat	-	-	No Habitat
LWS_DD1_090	420010	565305	18.06	No Habitat	-	-	No Habitat
LWS_DD1_100	420003	565312	18.06	No Habitat	-	-	No Habitat
LWS_DD1_110	419995	565318	18.76	No Habitat	-	-	No Habitat
LWS_DD1_120	419988	565325	18.76	No Habitat	-	-	No Habitat
LWS_DD1_130	419981	565332	18.76	No Habitat	-	-	No Habitat
LWS_DD1_140	419973	565339	18.76	No Habitat	-	-	No Habitat
LWS_DD1_150	419966	565345	18.76	No Habitat	-	-	No Habitat
LWS_DD1_160	419958	565352	18.76	No Habitat	-	-	No Habitat
LWS_DD1_170	419951	565359	18.76	No Habitat	-	-	No Habitat
LWS_DD1_180	419944	565366	18.76	No Habitat	-	-	No Habitat
LWS_DD1_190	419936	565372	18.76	No Habitat	-	-	No Habitat
LWS_DD1_200	419929	565379	18.76	No Habitat	-	-	No Habitat
LWS_DD2_000	420129	565429	18.06	No Habitat	-	-	No Habitat
LWS_DD2_010	420124	565420	18.06	No Habitat	-	-	No Habitat
LWS_DD2_020	420120	565411	18.06	No Habitat	-	-	No Habitat
LWS_DD2_030	420115	565402	18.06	No Habitat	-	-	No Habitat
LWS_DD2_040	420111	565393	18.06	No Habitat	-	-	No Habitat
LWS_DD2_050	420107	565384	18.06	No Habitat	-	-	No Habitat
LWS_DD2_060	420102	565375	18.06	No Habitat	-	-	No Habitat

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_DD2_070	420098	565366	18.06	No Habitat	-	-	No Habitat
LWS_DD2_080	420094	565357	18.06	No Habitat	-	-	No Habitat
LWS_DD2_090	420089	565348	18.06	No Habitat	-	-	No Habitat
LWS_DD2_100	420085	565339	18.06	No Habitat	-	-	No Habitat
LWS_DD2_110	420080	565330	18.06	No Habitat	-	-	No Habitat
LWS_DD2_120	420076	565321	18.06	No Habitat	-	-	No Habitat
LWS_DD2_130	420072	565312	18.06	No Habitat	-	-	No Habitat
LWS_DD2_140	420067	565303	18.06	No Habitat	-	-	No Habitat
LWS_DD2_150	420063	565294	18.06	No Habitat	-	-	No Habitat
LWS_DD2_160	420059	565285	18.06	No Habitat	-	-	No Habitat
LWS_DD2_170	420054	565276	18.06	No Habitat	-	-	No Habitat
LWS_DD2_180	420050	565267	18.06	No Habitat	-	-	No Habitat
LWS_DD2_190	420045	565258	18.06	No Habitat	-	-	No Habitat
LWS_DD2_200	420041	565249	18.06	No Habitat	-	-	No Habitat
LWS_DF1_000	427187	557310	17.92	10	24.7	25.4	7.0%
LWS_DF1_010	427193	557318	17.92	10	22.1	24.1	19.8%
LWS_DF1_020	427198	557327	17.92	10	21.1	21.8	7.1%
LWS_DF1_030	427203	557335	17.92	10	20.5	20.9	3.8%
LWS_DF1_040	427209	557344	17.92	10	20.1	20.4	2.4%
LWS_DF1_050	427214	557352	17.92	10	19.8	20.0	1.6%
LWS_DF1_060	427220	557360	17.92	10	19.6	19.7	1.2%
LWS_DF1_070	427225	557369	17.92	10	19.5	19.5	0.9%
LWS_DF1_080	427230	557377	17.92	10	19.3	19.4	0.7%
LWS_DF1_090	427236	557386	17.92	10	19.2	19.3	0.6%
LWS_DF1_100	427241	557394	17.92	10	19.1	19.2	0.5%
LWS_DF1_110	427246	557403	17.92	10	19.0	19.1	0.4%
LWS_DF1_120	427252	557411	17.92	10	19.0	19.0	0.4%
LWS_DF1_130	427257	557419	17.92	10	18.9	18.9	0.3%

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_DF1_140	427263	557428	17.92	10	18.8	18.9	0.3%
LWS_DF1_150	427268	557436	17.92	10	18.8	18.8	0.2%
LWS_DF1_160	427273	557445	17.92	10	18.8	18.8	0.2%
LWS_DF1_170	427279	557453	17.92	10	18.7	18.7	0.2%
LWS_DF1_180	427284	557462	17.92	10	18.7	18.7	0.2%
LWS_DF1_190	427289	557470	17.92	10	18.7	18.7	0.2%
LWS_DF1_200	427295	557478	17.92	10	18.6	18.6	0.1%
LWS_DP1_000	428137	557868	17.92	10	18.4	18.4	-0.1%
LWS_DP1_010	428132	557860	17.92	10	18.3	18.3	0.0%
LWS_DP1_020	428127	557851	17.92	10	18.3	18.3	0.0%
LWS_DP1_030	428122	557842	17.92	10	18.2	18.2	0.0%
LWS_DP1_040	428117	557834	17.92	10	18.2	18.2	0.0%
LWS_DP1_050	428111	557825	17.92	10	18.2	18.2	0.0%
LWS_DP1_060	428106	557816	17.92	10	18.2	18.2	0.0%
LWS_DP1_070	428101	557808	17.92	10	18.2	18.2	0.0%
LWS_DP1_080	428096	557799	17.92	10	18.2	18.2	0.0%
LWS_DP1_090	428091	557791	17.92	10	18.2	18.2	0.0%
LWS_DP1_100	428086	557782	17.92	10	18.2	18.2	0.0%
LWS_DP1_110	428081	557773	17.92	10	18.2	18.2	0.0%
LWS_DP1_120	428076	557765	17.92	10	18.2	18.2	0.0%
LWS_DP1_130	428071	557756	17.92	10	18.2	18.2	0.0%
LWS_DP1_140	428066	557747	17.92	10	18.2	18.2	0.0%
LWS_DP1_150	428061	557739	17.92	10	18.2	18.2	0.0%
LWS_DP1_160	428056	557730	17.92	10	18.2	18.2	0.0%
LWS_DP1_170	428051	557721	17.92	10	18.2	18.2	0.0%
LWS_DP1_180	428046	557713	17.92	10	18.2	18.2	0.0%
LWS_DP1_190	428041	557704	17.92	10	18.2	18.2	0.0%
LWS_DP1_200	428036	557696	17.92	10	18.2	18.2	0.0%

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_LA1_000	426139	557803	17.92	10	19.1	19.1	-0.2%
LWS_LA1_010	426133	557795	17.92	10	18.8	18.8	0.0%
LWS_LA1_020	426126	557788	17.92	10	18.6	18.6	0.0%
LWS_LA1_030	426119	557781	17.92	10	18.5	18.5	0.1%
LWS_LA1_040	426112	557773	17.92	10	18.4	18.4	0.1%
LWS_LA1_050	426106	557766	17.92	10	18.4	18.4	0.1%
LWS_LA1_060	426099	557758	17.92	10	18.3	18.3	0.1%
LWS_LA1_070	426092	557751	17.92	10	18.3	18.3	0.1%
LWS_LA1_080	426086	557744	17.92	10	18.3	18.3	0.1%
LWS_LA1_090	426079	557736	17.92	10	18.2	18.2	0.1%
LWS_LA1_100	426072	557729	17.92	10	18.2	18.2	0.1%
LWS_LA1_110	426065	557721	17.92	10	18.2	18.2	0.0%
LWS_LA1_120	426059	557714	17.92	10	18.2	18.2	0.0%
LWS_LA1_130	426052	557707	17.92	10	18.2	18.2	0.0%
LWS_LA1_140	426045	557699	17.92	10	18.2	18.2	0.0%
LWS_LA1_150	426039	557692	17.92	10	18.1	18.2	0.1%
LWS_LA1_160	426032	557684	17.92	10	18.1	18.1	0.0%
LWS_LA1_170	426025	557677	17.92	10	18.1	18.1	0.0%
LWS_LA1_180	426018	557670	17.92	10	18.1	18.1	0.0%
LWS_LA1_190	426012	557662	17.92	10	18.1	18.1	0.0%
LWS_LA1_200	426005	557655	17.92	10	18.1	18.1	0.0%
LWS_LA2_000	425794	558215	17.92	10	21.4	22.9	14.8%
LWS_LA2_010	425787	558209	17.92	10	19.6	19.8	2.2%
LWS_LA2_020	425779	558202	17.92	10	19.1	19.2	1.2%
LWS_LA2_030	425771	558195	17.92	10	18.9	18.9	0.8%
LWS_LA2_040	425764	558189	17.92	10	18.7	18.8	0.7%
LWS_LA2_050	425756	558182	17.92	10	18.6	18.7	0.6%
LWS_LA2_060	425749	558176	17.92	10	18.6	18.6	0.5%

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_LA2_070	425741	558169	17.92	10	18.5	18.5	0.4%
LWS_LA2_080	425734	558162	17.92	10	18.5	18.5	0.4%
LWS_LA2_090	425726	558156	17.92	10	18.4	18.5	0.3%
LWS_LA2_100	425719	558149	17.92	10	18.4	18.4	0.3%
LWS_LA2_110	425711	558143	17.92	10	18.4	18.4	0.3%
LWS_LA2_120	425704	558136	17.92	10	18.3	18.4	0.3%
LWS_LA2_130	425696	558130	17.92	10	18.3	18.3	0.2%
LWS_LA2_140	425689	558123	17.92	10	18.3	18.3	0.2%
LWS_LA2_150	425681	558116	17.92	10	18.3	18.3	0.2%
LWS_LA2_160	425674	558110	17.92	10	18.3	18.3	0.2%
LWS_LA2_170	425666	558103	17.92	10	18.2	18.3	0.2%
LWS_LA2_180	425659	558097	17.92	10	18.2	18.3	0.2%
LWS_LA2_190	425651	558090	17.92	10	18.2	18.2	0.2%
LWS_LA2_200	425643	558084	17.92	10	18.2	18.2	0.1%
LWS_LA3_000	425709	558192	17.92	10	18.8	18.9	0.7%
LWS_LA3_010	425717	558187	17.92	10	18.6	18.7	0.5%
LWS_LA3_020	425726	558182	17.92	10	18.5	18.6	0.5%
LWS_LA3_030	425735	558177	17.92	10	18.5	18.6	0.5%
LWS_LA3_040	425743	558172	17.92	10	18.5	18.6	0.4%
LWS_LA3_050	425752	558167	17.92	10	18.5	18.6	0.4%
LWS_LA3_060	425761	558162	17.92	10	18.5	18.6	0.4%
LWS_LA3_070	425769	558157	17.92	10	18.5	18.6	0.5%
LWS_LA3_080	425778	558152	17.92	10	18.6	18.6	0.5%
LWS_LA3_090	425787	558147	17.92	10	18.6	18.6	0.5%
LWS_LD1_000	426680	557412	17.92	No Habitat	-	-	No Habitat
LWS_LD1_010	426671	557408	17.92	No Habitat	-	-	No Habitat
LWS_LD1_020	426662	557405	17.92	No Habitat	-	-	No Habitat
LWS_LD1_030	426652	557401	17.92	No Habitat	-	-	No Habitat

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_LD1_040	426643	557398	17.92	No Habitat	-	-	No Habitat
LWS_LD1_050	426634	557394	17.92	No Habitat	-	-	No Habitat
LWS_LD1_060	426624	557390	17.92	No Habitat	-	-	No Habitat
LWS_LD1_070	426615	557387	17.92	No Habitat	-	-	No Habitat
LWS_LD1_080	426606	557383	17.92	No Habitat	-	-	No Habitat
LWS_LD1_090	426596	557380	17.92	No Habitat	-	-	No Habitat
LWS_LD1_100	426587	557376	17.92	No Habitat	-	-	No Habitat
LWS_LD1_110	426578	557373	17.92	No Habitat	-	-	No Habitat
LWS_LD1_120	426568	557369	17.92	No Habitat	-	-	No Habitat
LWS_LD1_130	426559	557366	17.92	No Habitat	-	-	No Habitat
LWS_LD1_140	426550	557362	17.92	No Habitat	-	-	No Habitat
LWS_LD1_150	426540	557359	17.92	No Habitat	-	-	No Habitat
LWS_LD1_160	426531	557355	17.92	No Habitat	-	-	No Habitat
LWS_LD1_170	426522	557352	17.92	No Habitat	-	-	No Habitat
LWS_LD1_180	426512	557348	17.92	No Habitat	-	-	No Habitat
LWS_LD1_190	426503	557344	17.92	No Habitat	-	-	No Habitat
LWS_LD1_200	426494	557341	17.92	No Habitat	-	-	No Habitat
LWS_LD2_000	426638	557430	17.92	No Habitat	-	-	No Habitat
LWS_LD2_010	426634	557421	17.92	No Habitat	-	-	No Habitat
LWS_LD2_020	426631	557411	17.92	No Habitat	-	-	No Habitat
LWS_LD2_030	426627	557402	17.92	No Habitat	-	-	No Habitat
LWS_LD2_040	426624	557393	17.92	No Habitat	-	-	No Habitat
LWS_LD2_050	426620	557383	17.92	No Habitat	-	-	No Habitat
LWS_LD2_060	426617	557374	17.92	No Habitat	-	-	No Habitat
LWS_LD2_070	426613	557365	17.92	No Habitat	-	-	No Habitat
LWS_LD2_080	426610	557355	17.92	No Habitat	-	-	No Habitat
LWS_LD2_090	426606	557346	17.92	No Habitat	-	-	No Habitat
LWS_LD2_100	426603	557337	17.92	No Habitat	-	-	No Habitat

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_LD2_110	426599	557327	17.92	No Habitat	-	-	No Habitat
LWS_LD2_120	426596	557318	17.92	No Habitat	-	-	No Habitat
LWS_LD2_130	426592	557308	17.92	No Habitat	-	-	No Habitat
LWS_LD2_140	426589	557299	17.92	No Habitat	-	-	No Habitat
LWS_LD2_150	426585	557290	17.92	No Habitat	-	-	No Habitat
LWS_LD2_160	426582	557280	17.92	No Habitat	-	-	No Habitat
LWS_LD2_170	426578	557271	17.92	No Habitat	-	-	No Habitat
LWS_LD2_180	426575	557262	17.92	No Habitat	-	-	No Habitat
LWS_LD2_190	426571	557252	17.92	No Habitat	-	-	No Habitat
LWS_LD2_200	426568	557243	17.92	No Habitat	-	-	No Habitat
LWS_LM1_000	425202	557940	17.92	10	18.1	18.1	0.0%
LWS_LM1_010	425200	557930	17.92	10	18.1	18.1	0.0%
LWS_LM1_020	425197	557921	17.92	10	18.1	18.1	0.0%
LWS_LM1_030	425195	557911	17.92	10	18.1	18.1	0.0%
LWS_LM1_040	425193	557901	17.92	10	18.1	18.1	0.0%
LWS_LM1_050	425190	557891	17.92	10	18.0	18.0	0.0%
LWS_LM1_060	425188	557882	17.92	10	18.0	18.0	0.0%
LWS_LM1_070	425186	557872	17.92	10	18.0	18.0	0.0%
LWS_LM1_080	425183	557862	17.92	10	18.0	18.0	0.0%
LWS_LM1_090	425181	557853	17.92	10	18.0	18.0	0.0%
LWS_LM1_100	425179	557843	17.92	10	18.0	18.0	0.0%
LWS_LM1_110	425176	557833	17.92	10	18.0	18.0	0.0%
LWS_LM1_120	425174	557823	17.92	10	18.0	18.0	0.0%
LWS_LM1_130	425172	557814	17.92	10	18.0	18.0	0.0%
LWS_LM1_140	425169	557804	17.92	10	18.0	18.0	0.0%
LWS_LM1_150	425167	557794	17.92	10	18.0	18.0	0.0%
LWS_LM1_160	425165	557784	17.92	10	18.0	18.0	0.0%
LWS_LM1_170	425162	557775	17.92	10	18.0	18.0	0.0%

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_LM1_180	425160	557765	17.92	10	18.0	18.0	0.0%
LWS_LM1_190	425158	557755	17.92	10	18.0	18.0	0.0%
LWS_LM1_200	425155	557746	17.92	10	18.0	18.0	0.0%
LWS_LW1_000	423475	573508	15.4	No Habitat	-	-	No Habitat
LWS_LW1_010	423485	573510	15.4	No Habitat	-	-	No Habitat
LWS_LW1_020	423495	573512	15.4	No Habitat	-	-	No Habitat
LWS_LW1_030	423505	573514	15.4	No Habitat	-	-	No Habitat
LWS_LW1_040	423515	573516	15.4	No Habitat	-	-	No Habitat
LWS_LW1_050	423524	573518	15.4	No Habitat	-	-	No Habitat
LWS_LW1_060	423534	573520	15.4	No Habitat	-	-	No Habitat
LWS_LW1_070	423544	573522	15.4	No Habitat	-	-	No Habitat
LWS_LW1_080	423554	573524	15.4	No Habitat	-	-	No Habitat
LWS_LW1_090	423564	573526	15.4	No Habitat	-	-	No Habitat
LWS_LW1_100	423573	573528	15.4	No Habitat	-	-	No Habitat
LWS_LW1_110	423583	573530	15.4	No Habitat	-	-	No Habitat
LWS_LW1_120	423593	573532	15.4	No Habitat	-	-	No Habitat
LWS_LW1_130	423603	573534	15.4	No Habitat	-	-	No Habitat
LWS_LW1_140	423613	573536	15.4	No Habitat	-	-	No Habitat
LWS_LW1_150	423622	573538	15.4	No Habitat	-	-	No Habitat
LWS_LW1_160	423632	573540	15.4	No Habitat	-	-	No Habitat
LWS_LW1_170	423642	573542	15.4	No Habitat	-	-	No Habitat
LWS_LW1_180	423652	573544	15.4	No Habitat	-	-	No Habitat
LWS_LW1_190	423662	573546	15.4	No Habitat	-	-	No Habitat
LWS_LW1_200	423671	573548	15.4	No Habitat	-	-	No Habitat
LWS_RP1_000	424142	558770	15.96	No Habitat	-	-	No Habitat
LWS_RP1_010	424134	558764	15.96	No Habitat	-	-	No Habitat
LWS_RP1_020	424126	558758	15.96	No Habitat	-	-	No Habitat
LWS_RP1_030	424118	558751	15.96	No Habitat	-	-	No Habitat

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_RP1_040	424111	558745	15.96	No Habitat	-	-	No Habitat
LWS_RP1_050	424103	558739	15.96	No Habitat	-	-	No Habitat
LWS_RP1_060	424095	558733	15.96	No Habitat	-	-	No Habitat
LWS_RP1_070	424087	558727	15.96	No Habitat	-	-	No Habitat
LWS_RP1_080	424079	558720	15.96	No Habitat	-	-	No Habitat
LWS_RP1_090	424071	558714	15.96	No Habitat	-	-	No Habitat
LWS_RP1_100	424063	558708	15.96	No Habitat	-	-	No Habitat
LWS_RP1_110	424056	558702	15.96	No Habitat	-	-	No Habitat
LWS_RP1_120	424048	558696	15.96	No Habitat	-	-	No Habitat
LWS_RP1_130	424040	558689	15.96	No Habitat	-	-	No Habitat
LWS_RP1_140	424032	558683	15.96	No Habitat	-	-	No Habitat
LWS_RP1_150	424024	558677	15.96	No Habitat	-	-	No Habitat
LWS_RP1_160	424016	558671	15.96	No Habitat	-	-	No Habitat
LWS_RP1_170	424009	558665	15.96	No Habitat	-	-	No Habitat
LWS_RP1_180	424001	558658	15.96	No Habitat	-	-	No Habitat
LWS_RP1_190	423993	558652	15.96	No Habitat	-	-	No Habitat
LWS_RP1_200	423985	558646	15.96	No Habitat	-	-	No Habitat
LWS_RT1_000	419447	563921	16.24	8	22.3	21.8	-7.3%
LWS_RT1_010	419457	563919	16.24	8	19.5	19.2	-4.1%
LWS_RT1_020	419467	563918	16.24	8	18.6	18.3	-2.9%
LWS_RT1_030	419476	563917	16.24	8	18.1	17.9	-2.3%
LWS_RT1_040	419486	563915	16.24	8	17.7	17.6	-1.9%
LWS_RT1_050	419496	563914	16.24	8	17.5	17.4	-1.6%
LWS_RT1_060	419506	563913	16.24	8	17.4	17.3	-1.4%
LWS_RT1_070	419516	563911	16.24	8	17.2	17.1	-1.2%
LWS_RT1_080	419526	563910	16.24	8	17.2	17.1	-1.1%
LWS_RT1_090	419536	563909	16.24	8	17.1	17.0	-1.0%
LWS_RT1_100	419546	563908	16.24	8	17.0	16.9	-0.9%

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_RT1_110	419556	563906	16.24	8	17.0	16.9	-0.8%
LWS_RT1_120	419566	563905	16.24	8	16.9	16.9	-0.8%
LWS_RT1_130	419576	563904	16.24	8	16.9	16.8	-0.7%
LWS_RT1_140	419585	563902	16.24	8	16.8	16.8	-0.7%
LWS_RT1_150	419595	563901	16.24	8	16.8	16.8	-0.6%
LWS_RT1_160	419605	563900	16.24	8	16.8	16.7	-0.6%
LWS_RT1_170	419615	563898	16.24	8	16.8	16.7	-0.6%
LWS_RT1_180	419625	563897	16.24	8	16.7	16.7	-0.5%
LWS_RT1_190	419635	563896	16.24	8	16.7	16.7	-0.5%
LWS_RT1_200	419645	563894	16.24	8	16.7	16.7	-0.5%
LWS_RT2_000	419432	564018	16.24	8	20.1	19.8	-4.1%
LWS_RT2_010	419422	564019	16.24	8	18.1	17.9	-2.1%
LWS_RT2_020	419412	564020	16.24	8	17.5	17.4	-1.5%
LWS_RT2_030	419402	564021	16.24	8	17.2	17.1	-1.1%
LWS_RT2_040	419392	564022	16.24	8	17.0	17.0	-0.9%
LWS_RT2_050	419382	564024	16.24	8	16.9	16.9	-0.8%
LWS_RT2_060	419372	564025	16.24	8	16.8	16.8	-0.7%
LWS_RT2_070	419362	564026	16.24	8	16.8	16.7	-0.6%
LWS_RT2_080	419352	564027	16.24	8	16.7	16.7	-0.5%
LWS_RT2_090	419342	564029	16.24	8	16.7	16.6	-0.5%
LWS_RT2_100	419332	564030	16.24	8	16.6	16.6	-0.4%
LWS_RT2_110	419322	564031	16.24	8	16.6	16.6	-0.4%
LWS_RT2_120	419313	564032	16.24	8	16.6	16.6	-0.3%
LWS_RT2_130	419303	564034	16.24	8	16.6	16.5	-0.3%
LWS_RT2_140	419293	564035	16.24	8	16.5	16.5	-0.3%
LWS_RT2_150	419283	564036	16.24	8	16.5	16.5	-0.3%
LWS_RT2_160	419273	564037	16.24	8	16.5	16.5	-0.3%
LWS_RT2_170	419263	564039	16.24	8	16.5	16.5	-0.2%

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_RT2_180	419253	564040	16.24	8	16.5	16.5	-0.2%
LWS_RT2_190	419243	564041	16.24	8	16.5	16.5	-0.2%
LWS_RT2_200	419233	564042	16.24	8	16.5	16.4	-0.2%
LWS_SH1_000	428274	557189	17.92	5	19.1	19.1	-0.3%
LWS_SH1_010	428282	557194	17.92	5	18.7	18.7	-0.1%
LWS_SH1_020	428291	557199	17.92	5	18.6	18.6	-0.1%
LWS_SH1_030	428300	557204	17.92	5	18.6	18.6	0.0%
LWS_SH1_040	428308	557209	17.92	5	18.5	18.5	0.0%
LWS_SH1_050	428317	557214	17.92	5	18.5	18.5	0.0%
LWS_SH1_060	428326	557219	17.92	5	18.5	18.5	0.0%
LWS_SH1_070	428334	557224	17.92	5	18.5	18.5	0.0%
LWS_SH1_080	428343	557229	17.92	5	18.5	18.5	0.0%
LWS_SH1_090	428352	557234	17.92	5	18.4	18.4	0.0%
LWS_SH1_100	428360	557239	17.92	5	18.4	18.4	0.0%
LWS_SH1_110	428369	557244	17.92	5	18.4	18.4	0.0%
LWS_SH1_120	428378	557249	17.92	5	18.4	18.4	0.0%
LWS_SH1_130	428386	557254	17.92	5	18.4	18.4	0.0%
LWS_SH1_140	428395	557259	17.92	5	18.4	18.4	0.0%
LWS_SH1_150	428404	557264	17.92	5	18.4	18.4	0.0%
LWS_SH1_160	428412	557269	17.92	5	18.4	18.4	0.0%
LWS_SH1_170	428421	557274	17.92	5	18.4	18.4	0.0%
LWS_SH1_180	428430	557279	17.92	5	18.4	18.4	0.0%
LWS_SH1_190	428438	557284	17.92	5	18.4	18.4	0.0%
LWS_SH1_200	428447	557289	17.92	5	18.4	18.4	0.0%
LWS_SM1_000	419492	563336	16.24	8	21.9	21.4	-6.8%
LWS_SM1_010	419501	563339	16.24	8	19.6	19.2	-4.1%
LWS_SM1_020	419511	563342	16.24	8	18.6	18.4	-3.0%
LWS_SM1_030	419520	563345	16.24	8	18.1	17.9	-2.3%

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_SM1_040	419530	563348	16.24	8	17.8	17.7	-1.9%
LWS_SM1_050	419540	563351	16.24	8	17.6	17.5	-1.6%
LWS_SM1_060	419549	563354	16.24	8	17.4	17.3	-1.4%
LWS_SM1_070	419559	563357	16.24	8	17.3	17.2	-1.3%
LWS_SM1_080	419568	563360	16.24	8	17.2	17.1	-1.2%
LWS_SM1_090	419578	563363	16.24	8	17.1	17.0	-1.0%
LWS_SM1_100	419587	563366	16.24	8	17.1	17.0	-1.0%
LWS_SM1_110	419597	563369	16.24	8	17.0	16.9	-0.9%
LWS_SM1_120	419606	563372	16.24	8	17.0	16.9	-0.8%
LWS_SM1_130	419616	563376	16.24	8	16.9	16.8	-0.8%
LWS_SM1_140	419625	563379	16.24	8	16.9	16.8	-0.7%
LWS_SM1_150	419635	563382	16.24	8	16.8	16.8	-0.7%
LWS_SM1_160	419644	563385	16.24	8	16.8	16.8	-0.6%
LWS_SM1_170	419654	563388	16.24	8	16.8	16.7	-0.6%
LWS_SM1_180	419663	563391	16.24	8	16.8	16.7	-0.6%
LWS_SM1_190	419673	563394	16.24	8	16.7	16.7	-0.5%
LWS_SM1_200	419682	563397	16.24	8	16.7	16.7	-0.5%
LWS_SM2_000	419807	562875	16.24	8	20.2	20.0	-1.6%
LWS_SM2_010	419814	562881	16.24	8	18.6	18.6	-0.9%
LWS_SM2_020	419822	562888	16.24	8	18.1	18.1	-0.7%
LWS_SM2_030	419829	562895	16.24	8	17.8	17.8	-0.6%
LWS_SM2_040	419836	562901	16.24	8	17.6	17.6	-0.5%
LWS_SM2_050	419844	562908	16.24	8	17.5	17.4	-0.4%
LWS_SM2_060	419851	562915	16.24	8	17.4	17.3	-0.4%
LWS_SM2_070	419859	562922	16.24	8	17.3	17.2	-0.4%
LWS_SM2_080	419866	562928	16.24	8	17.2	17.2	-0.3%
LWS_SM2_090	419873	562935	16.24	8	17.1	17.1	-0.3%
LWS_SM2_100	419881	562942	16.24	8	17.1	17.1	-0.3%

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_SM2_110	419888	562948	16.24	8	17.0	17.0	-0.3%
LWS_SM2_120	419896	562955	16.24	8	17.0	17.0	-0.3%
LWS_SM2_130	419903	562962	16.24	8	17.0	16.9	-0.2%
LWS_SM2_140	419911	562968	16.24	8	16.9	16.9	-0.3%
LWS_SM2_150	419918	562975	16.24	8	16.9	16.9	-0.2%
LWS_SM2_160	419925	562982	16.24	8	16.9	16.8	-0.2%
LWS_SM2_170	419933	562989	16.24	8	16.8	16.8	-0.2%
LWS_SM2_180	419940	562995	16.24	8	16.8	16.8	-0.2%
LWS_SM2_190	419948	563002	16.24	8	16.8	16.8	-0.2%
LWS_SM2_200	419955	563009	16.24	8	16.8	16.8	-0.2%
LWS_SM3_000	419891	562826	16.24	8	19.6	19.5	-0.7%
LWS_SM3_010	419890	562836	16.24	8	18.4	18.3	-0.5%
LWS_SM3_020	419888	562846	16.24	8	18.0	17.9	-0.4%
LWS_SM3_030	419887	562856	16.24	8	17.7	17.7	-0.4%
LWS_SM3_040	419886	562866	16.24	8	17.6	17.6	-0.4%
LWS_SM3_050	419884	562876	16.24	8	17.5	17.4	-0.4%
LWS_SM3_060	419883	562885	16.24	8	17.4	17.4	-0.3%
LWS_SM3_070	419882	562895	16.24	8	17.3	17.3	-0.3%
LWS_SM3_080	419880	562905	16.24	8	17.3	17.2	-0.3%
LWS_SM3_090	419879	562915	16.24	8	17.2	17.2	-0.3%
LWS_SM3_100	419877	562925	16.24	8	17.2	17.1	-0.3%
LWS_SM3_110	419876	562935	16.24	8	17.1	17.1	-0.3%
LWS_SM3_120	419875	562945	16.24	8	17.1	17.1	-0.3%
LWS_SM3_130	419873	562955	16.24	8	17.1	17.0	-0.3%
LWS_SM3_140	419872	562965	16.24	8	17.0	17.0	-0.3%
LWS_SM3_150	419870	562975	16.24	8	17.0	17.0	-0.3%
LWS_SM3_160	419869	562984	16.24	8	17.0	16.9	-0.3%
LWS_SM3_170	419868	562994	16.24	8	16.9	16.9	-0.3%

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_SM3_180	419866	563004	16.24	8	16.9	16.9	-0.3%
LWS_SM3_190	419865	563014	16.24	8	16.9	16.9	-0.3%
LWS_SM3_200	419864	563024	16.24	8	16.9	16.8	-0.3%
LWS_SN1_000	420187	564578	17.08	10	17.3	17.3	0.0%
LWS_SN1_010	420181	564586	17.08	10	17.3	17.3	-0.1%
LWS_SN1_020	420175	564594	17.08	10	17.3	17.3	-0.1%
LWS_SN1_030	420170	564602	17.08	10	17.3	17.3	-0.1%
LWS_SN1_040	420164	564611	17.08	10	17.3	17.3	-0.1%
LWS_SN1_050	420158	564619	17.08	10	17.3	17.3	-0.1%
LWS_SN1_060	420152	564627	17.08	10	17.3	17.3	-0.1%
LWS_SN1_070	420147	564635	17.08	10	17.3	17.3	-0.1%
LWS_SN1_080	420141	564643	17.08	10	17.3	17.3	-0.1%
LWS_SN1_090	420135	564651	17.08	10	17.3	17.3	-0.1%
LWS_SN1_100	420129	564659	17.08	10	17.3	17.3	-0.1%
LWS_SN1_110	420123	564668	17.08	10	17.3	17.3	-0.1%
LWS_SN1_120	420118	564676	17.08	10	17.3	17.3	-0.1%
LWS_SN1_130	420112	564684	17.08	10	17.3	17.3	-0.1%
LWS_SN1_140	420106	564692	17.08	10	17.3	17.3	-0.1%
LWS_SN1_150	420100	564700	17.08	10	17.3	17.3	-0.1%
LWS_SN1_160	420094	564708	17.08	10	17.3	17.3	-0.1%
LWS_SN1_170	420089	564716	17.08	10	17.3	17.3	-0.1%
LWS_SN1_180	420083	564725	17.08	10	17.3	17.3	-0.1%
LWS_SN1_190	420077	564733	17.08	10	17.3	17.3	-0.1%
LWS_SN1_200	420071	564741	17.08	10	17.3	17.3	-0.1%
LWS_TC1_000	426511	557854	17.92	No Habitat	-	-	No Habitat
LWS_TC1_010	426521	557857	17.92	No Habitat	-	-	No Habitat
LWS_TC1_020	426530	557860	17.92	No Habitat	-	-	No Habitat
LWS_TC1_030	426540	557863	17.92	No Habitat	-	-	No Habitat

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_TC1_040	426549	557866	17.92	No Habitat	-	-	No Habitat
LWS_TC1_050	426559	557869	17.92	No Habitat	-	-	No Habitat
LWS_TC1_060	426568	557872	17.92	No Habitat	-	-	No Habitat
LWS_TC1_070	426578	557875	17.92	No Habitat	-	-	No Habitat
LWS_TC1_080	426587	557878	17.92	No Habitat	-	-	No Habitat
LWS_TC1_090	426597	557881	17.92	No Habitat	-	-	No Habitat
LWS_TC1_100	426606	557884	17.92	No Habitat	-	-	No Habitat
LWS_TC1_110	426616	557887	17.92	No Habitat	-	-	No Habitat
LWS_TC1_120	426625	557890	17.92	No Habitat	-	-	No Habitat
LWS_TC1_130	426635	557893	17.92	No Habitat	-	-	No Habitat
LWS_TC1_140	426644	557896	17.92	No Habitat	-	-	No Habitat
LWS_TC1_150	426654	557899	17.92	No Habitat	-	-	No Habitat
LWS_TC1_160	426663	557902	17.92	No Habitat	-	-	No Habitat
LWS_TC1_170	426673	557905	17.92	No Habitat	-	-	No Habitat
LWS_TC1_180	426682	557908	17.92	No Habitat	-	-	No Habitat
LWS_TC1_190	426692	557912	17.92	No Habitat	-	-	No Habitat
LWS_TC1_200	426701	557915	17.92	No Habitat	-	-	No Habitat
LWS_VW1_000	428690	554185	16.24	15	16.8	16.8	0.0%
LWS_VW1_010	428688	554195	16.24	15	16.7	16.7	0.0%
LWS_VW1_020	428686	554205	16.24	15	16.7	16.7	0.0%
LWS_VW1_030	428685	554215	16.24	15	16.7	16.7	0.0%
LWS_VW1_040	428683	554225	16.24	15	16.7	16.7	0.0%
LWS_VW1_050	428682	554235	16.24	15	16.7	16.7	0.0%
LWS_VW1_060	428680	554244	16.24	15	16.7	16.7	0.0%
LWS_VW1_070	428678	554254	16.24	15	16.7	16.7	0.0%
LWS_VW1_080	428677	554264	16.24	15	16.7	16.7	0.0%
LWS_VW1_090	428675	554274	16.24	15	16.7	16.7	0.0%
LWS_VW1_100	428674	554284	16.24	15	16.7	16.7	0.0%

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_VW1_110	428672	554294	16.24	15	16.7	16.7	0.0%
LWS_VW1_120	428671	554304	16.24	15	16.7	16.7	0.0%
LWS_VW1_130	428669	554314	16.24	15	16.7	16.7	0.0%
LWS_VW1_140	428667	554323	16.24	15	16.7	16.7	0.0%
LWS_VW1_150	428666	554333	16.24	15	16.7	16.7	0.0%
LWS_VW1_160	428664	554343	16.24	15	16.7	16.7	0.0%
LWS_VW1_170	428663	554353	16.24	15	16.7	16.7	0.0%
LWS_VW1_180	428661	554363	16.24	15	16.7	16.7	0.0%
LWS_VW1_190	428659	554373	16.24	15	16.7	16.7	0.0%
LWS_VW1_200	428658	554383	16.24	15	16.7	16.7	0.0%
LWS_VW2_000	428508	554174	16.24	15	17.7	17.7	0.0%
LWS_VW2_010	428509	554184	16.24	15	17.8	17.8	0.0%
LWS_VW2_020	428510	554194	16.24	15	17.9	17.9	0.0%
LWS_VW2_030	428511	554204	16.24	15	17.9	17.9	0.0%
LWS_VW2_040	428512	554214	16.24	15	17.8	17.8	0.0%
LWS_VW2_050	428513	554224	16.24	15	17.8	17.8	0.0%
LWS_VW2_060	428513	554234	16.24	15	17.8	17.8	0.0%
LWS_VW2_070	428514	554244	16.24	15	17.7	17.7	0.0%
LWS_VW2_080	428515	554254	16.24	15	17.7	17.7	0.0%
LWS_VW2_090	428516	554264	16.24	15	17.6	17.6	0.0%
LWS_VW2_100	428517	554274	16.24	15	17.6	17.6	0.0%
LWS_VW2_110	428518	554283	16.24	15	17.6	17.6	0.0%
LWS_VW2_120	428519	554293	16.24	15	17.6	17.6	0.0%
LWS_VW2_130	428520	554303	16.24	15	17.5	17.5	0.0%
LWS_VW2_140	428521	554313	16.24	15	17.5	17.5	0.0%
LWS_VW2_150	428522	554323	16.24	15	17.4	17.4	0.0%
LWS_VW2_160	428523	554333	16.24	15	17.2	17.2	0.0%
LWS_VW2_170	428523	554343	16.24	15	17.2	17.2	0.0%

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_VW2_180	428524	554353	16.24	15	17.1	17.1	0.0%
LWS_VW2_190	428525	554363	16.24	15	17.1	17.1	0.0%
LWS_VW2_200	428526	554373	16.24	15	17.0	17.0	0.0%
LWS_VW3_000	428513	554272	16.24	15	17.8	17.8	0.0%
LWS_VW3_010	428523	554273	16.24	15	17.4	17.4	0.0%
LWS_VW3_020	428533	554273	16.24	15	17.2	17.2	0.0%
LWS_VW3_030	428543	554274	16.24	15	17.1	17.1	0.0%
LWS_VW3_040	428553	554275	16.24	15	17.0	17.0	0.0%
LWS_VW3_050	428563	554276	16.24	15	17.0	17.0	0.0%
LWS_VW3_060	428573	554277	16.24	15	16.9	16.9	0.0%
LWS_VW3_070	428583	554277	16.24	15	16.9	16.9	0.0%
LWS_VW3_080	428593	554278	16.24	15	16.8	16.8	0.0%
LWS_VW3_090	428603	554279	16.24	15	16.8	16.8	0.0%
LWS_VW3_100	428613	554280	16.24	15	16.8	16.8	0.0%
LWS_VW3_110	428623	554281	16.24	15	16.8	16.8	0.0%
LWS_VW3_120	428633	554281	16.24	15	16.7	16.7	0.0%
LWS_VW3_130	428643	554282	16.24	15	16.7	16.7	0.0%
LWS_VW3_140	428653	554283	16.24	15	16.7	16.7	0.0%
LWS_VW3_150	428663	554284	16.24	15	16.7	16.7	0.0%
LWS_VW3_160	428673	554285	16.24	15	16.7	16.7	0.0%
LWS_VW3_170	428683	554285	16.24	15	16.7	16.7	0.0%
LWS_VW3_180	428693	554286	16.24	15	16.7	16.7	0.0%
LWS_VW3_190	428703	554287	16.24	15	16.6	16.6	0.0%
LWS_VW3_200	428713	554288	16.24	15	16.6	16.6	0.0%
SSI_SP1_000	419649	562967	16.24	10	16.9	16.9	-0.2%
SSI_SP1_010	419640	562962	16.24	10	16.8	16.8	-0.2%
SSI_SP1_020	419631	562958	16.24	10	16.7	16.7	-0.2%
SSI_SP1_030	419622	562954	16.24	10	16.7	16.7	-0.2%

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
SSI_SP1_040	419613	562949	16.24	10	16.6	16.6	-0.1%
SSI_SP1_050	419604	562945	16.24	10	16.6	16.6	-0.1%
SSI_SP1_060	419595	562941	16.24	10	16.6	16.5	-0.1%
SSI_SP1_070	419586	562937	16.24	10	16.5	16.5	-0.1%
SSI_SP1_080	419577	562932	16.24	10	16.5	16.5	-0.1%
SSI_SP1_090	419568	562928	16.24	10	16.5	16.5	-0.1%
SSI_SP1_100	419559	562924	16.24	10	16.5	16.5	-0.1%
SSI_SP1_110	419550	562919	16.24	10	16.5	16.5	-0.1%
SSI_SP1_120	419541	562915	16.24	10	16.5	16.4	-0.1%
SSI_SP1_130	419532	562911	16.24	10	16.4	16.4	-0.1%
SSI_SP1_140	419523	562906	16.24	10	16.4	16.4	-0.1%
SSI_SP1_150	419514	562902	16.24	10	16.4	16.4	-0.1%
SSI_SP1_160	419505	562898	16.24	10	16.4	16.4	-0.1%
SSI_SP1_170	419496	562894	16.24	10	16.4	16.4	-0.1%
SSI_SP1_180	419487	562889	16.24	10	16.4	16.4	-0.1%
SSI_SP1_190	419478	562885	16.24	10	16.4	16.4	-0.1%
SSI_SP1_200	419469	562881	16.24	10	16.4	16.4	-0.1%
SSI_SP2_000	419702	562806	16.24	10	16.6	16.6	-0.1%
SSI_SP2_010	419693	562802	16.24	10	16.6	16.6	-0.1%
SSI_SP2_020	419684	562797	16.24	10	16.6	16.5	-0.1%
SSI_SP2_030	419675	562793	16.24	10	16.5	16.5	-0.1%
SSI_SP2_040	419666	562789	16.24	10	16.5	16.5	-0.1%
SSI_SP2_050	419657	562785	16.24	10	16.5	16.5	-0.1%
SSI_SP2_060	419648	562780	16.24	10	16.5	16.5	-0.1%
SSI_SP2_070	419639	562776	16.24	10	16.5	16.5	0.0%
SSI_SP2_080	419630	562772	16.24	10	16.5	16.5	0.0%
SSI_SP2_090	419621	562767	16.24	10	16.4	16.4	-0.1%
SSI_SP2_100	419612	562763	16.24	10	16.4	16.4	-0.1%

Receptor Name	X	Y	APIS Short Deposition	Short Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
SSI_SP2_110	419603	562759	16.24	10	16.4	16.4	0.0%
SSI_SP2_120	419594	562755	16.24	10	16.4	16.4	0.0%
SSI_SP2_130	419585	562750	16.24	10	16.4	16.4	-0.1%
SSI_SP2_140	419576	562746	16.24	10	16.4	16.4	0.0%
SSI_SP2_150	419567	562742	16.24	10	16.4	16.4	0.0%
SSI_SP2_160	419558	562737	16.24	10	16.4	16.4	0.0%
SSI_SP2_170	419549	562733	16.24	10	16.4	16.4	0.0%
SSI_SP2_180	419540	562729	16.24	10	16.4	16.4	0.0%
SSI_SP2_190	419531	562725	16.24	10	16.4	16.4	0.0%
SSI_SP2_200	419522	562720	16.24	10	16.4	16.4	0.0%

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
AWO_CB1_000	428091	552953	26.04	10	28.5	28.5	-0.1%
AWO_CB1_010	428101	552954	26.04	10	27.6	27.6	0.0%
AWO_CB1_020	428111	552955	26.04	10	27.3	27.3	0.0%
AWO_CB1_030	428121	552956	26.04	10	27.2	27.2	0.0%
AWO_CB1_040	428131	552957	26.04	10	27.1	27.1	0.0%
AWO_CB1_050	428141	552958	26.04	10	27.0	27.0	0.0%
AWO_CB1_060	428151	552959	26.04	10	27.0	27.0	0.0%
AWO_CB1_070	428161	552960	26.04	10	26.9	26.9	0.0%
AWO_CB1_080	428171	552961	26.04	10	26.9	26.9	0.0%
AWO_CB1_090	428181	552963	26.04	10	26.9	26.9	0.0%
AWO_CB1_100	428191	552964	26.04	10	26.8	26.8	0.0%
AWO_CB1_110	428201	552965	26.04	10	26.8	26.8	0.0%
AWO_CB1_120	428210	552966	26.04	10	26.8	26.8	0.0%
AWO_CB1_130	428220	552967	26.04	10	26.8	26.8	0.0%
AWO_CB1_140	428230	552968	26.04	10	26.7	26.7	0.0%

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
AWO_CB1_150	428240	552969	26.04	10	26.7	26.7	0.0%
AWO_CB1_160	428250	552970	26.04	10	26.7	26.7	0.0%
AWO_CB1_170	428260	552971	26.04	10	26.7	26.7	0.0%
AWO_CB1_180	428270	552972	26.04	10	26.7	26.7	0.0%
AWO_CB1_190	428280	552973	26.04	10	26.7	26.7	0.0%
AWO_CB1_200	428290	552974	26.04	10	26.6	26.6	0.0%
AWO_CB2_000	428226	552417	26.04	10	27.2	27.2	0.0%
AWO_CB2_010	428235	552422	26.04	10	27.1	27.1	0.0%
AWO_CB2_020	428244	552427	26.04	10	27.0	27.0	0.0%
AWO_CB2_030	428252	552432	26.04	10	27.0	27.0	0.0%
AWO_CB2_040	428261	552437	26.04	10	26.9	26.9	0.0%
AWO_CB2_050	428270	552442	26.04	10	26.9	26.9	0.0%
AWO_CB2_060	428278	552447	26.04	10	26.9	26.9	0.0%
AWO_CB2_070	428287	552451	26.04	10	26.8	26.8	0.0%
AWO_CB2_080	428296	552456	26.04	10	26.8	26.8	0.0%
AWO_CB2_090	428305	552461	26.04	10	26.8	26.8	0.0%
AWO_CB2_100	428313	552466	26.04	10	26.7	26.7	0.0%
AWO_CB2_110	428322	552471	26.04	10	26.7	26.7	0.0%
AWO_CB2_120	428331	552476	26.04	10	26.7	26.7	0.0%
AWO_CB2_130	428340	552481	26.04	10	26.7	26.7	0.0%
AWO_CB2_140	428348	552485	26.04	10	26.7	26.7	0.0%
AWO_CB2_150	428357	552490	26.04	10	26.6	26.6	0.0%
AWO_CB2_160	428366	552495	26.04	10	26.6	26.6	0.0%
AWO_CB2_170	428375	552500	26.04	10	26.6	26.6	0.0%
AWO_CB2_180	428383	552505	26.04	10	26.6	26.6	0.0%
AWO_CB2_190	428392	552510	26.04	10	26.6	26.6	0.0%
AWO_CB2_200	428401	552515	26.04	10	26.6	26.6	0.0%
AWO_HH1_000	424033	559015	25.76	10	28.6	28.7	1.5%

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
AWO_HH1_010	424024	559012	25.76	10	27.9	28.0	1.0%
AWO_HH1_020	424014	559009	25.76	10	27.4	27.5	0.8%
AWO_HH1_030	424005	559007	25.76	10	27.1	27.2	0.6%
AWO_HH1_040	423995	559004	25.76	10	27.0	27.0	0.5%
AWO_HH1_050	423985	559001	25.76	10	26.8	26.8	0.4%
AWO_HH1_060	423976	558998	25.76	10	26.7	26.7	0.4%
AWO_HH1_070	423966	558995	25.76	10	26.6	26.6	0.3%
AWO_HH1_080	423957	558993	25.76	10	26.5	26.5	0.3%
AWO_HH1_090	423947	558990	25.76	10	26.5	26.5	0.2%
AWO_HH1_100	423937	558987	25.76	10	26.4	26.4	0.2%
AWO_HH1_110	423928	558984	25.76	10	26.4	26.4	0.2%
AWO_HH1_120	423918	558982	25.76	10	26.3	26.3	0.2%
AWO_HH1_130	423909	558979	25.76	10	26.3	26.3	0.1%
AWO_HH1_140	423899	558976	25.76	10	26.3	26.3	0.2%
AWO_HH1_150	423889	558973	25.76	10	26.2	26.2	0.1%
AWO_HH1_160	423880	558970	25.76	10	26.2	26.2	0.1%
AWO_HH1_170	423870	558968	25.76	10	26.2	26.2	0.1%
AWO_HH1_180	423861	558965	25.76	10	26.2	26.2	0.1%
AWO_HH1_190	423851	558962	25.76	10	26.2	26.2	0.1%
AWO_HH1_200	423841	558959	25.76	10	26.1	26.1	0.1%
AWO_SD1_000	419129	565826	31.08	10	33.7	33.6	-0.5%
AWO_SD1_010	419126	565816	31.08	10	32.7	32.7	-0.4%
AWO_SD1_020	419123	565807	31.08	10	32.3	32.2	-0.3%
AWO_SD1_030	419121	565797	31.08	10	32.0	32.0	-0.3%
AWO_SD1_040	419118	565787	31.08	10	31.9	31.9	-0.2%
AWO_SD1_050	419116	565778	31.08	10	31.8	31.8	-0.2%
AWO_SD1_060	419113	565768	31.08	10	31.7	31.7	-0.2%
AWO_SD1_070	419111	565758	31.08	10	31.7	31.6	-0.2%

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
AWO_SD1_080	419108	565749	31.08	10	31.6	31.6	-0.2%
AWO_SD1_090	419105	565739	31.08	10	31.6	31.6	-0.2%
AWO_SD1_100	419103	565729	31.08	10	31.6	31.5	-0.2%
AWO_SD1_110	419100	565720	31.08	10	31.5	31.5	-0.2%
AWO_SD1_120	419098	565710	31.08	10	31.5	31.5	-0.1%
AWO_SD1_130	419095	565700	31.08	10	31.5	31.5	-0.2%
AWO_SD1_140	419093	565691	31.08	10	31.5	31.5	-0.1%
AWO_SD1_150	419090	565681	31.08	10	31.5	31.5	-0.2%
AWO_SD1_160	419087	565671	31.08	10	31.5	31.5	-0.1%
AWO_SD1_170	419085	565662	31.08	10	31.5	31.4	-0.1%
AWO_SD1_180	419082	565652	31.08	10	31.4	31.4	-0.1%
AWO_SD1_190	419080	565642	31.08	10	31.4	31.4	-0.2%
AWO_SD1_200	419077	565633	31.08	10	31.4	31.4	-0.1%
LNR_BN1_000	421681	563854	27.86	5	28.1	28.1	-0.1%
LNR_BN1_010	421679	563844	27.86	5	28.1	28.1	-0.1%
LNR_BN1_020	421676	563834	27.86	5	28.1	28.1	-0.2%
LNR_BN1_030	421674	563824	27.86	5	28.1	28.1	-0.1%
LNR_BN1_040	421672	563815	27.86	5	28.1	28.1	-0.1%
LNR_BN1_050	421670	563805	27.86	5	28.1	28.1	-0.1%
LNR_BN1_060	421668	563795	27.86	5	28.1	28.1	-0.2%
LNR_BN1_070	421666	563785	27.86	5	28.1	28.1	-0.2%
LNR_BN1_080	421664	563775	27.86	5	28.1	28.1	-0.2%
LNR_BN1_090	421661	563766	27.86	5	28.1	28.1	-0.2%
LNR_BN1_100	421659	563756	27.86	5	28.1	28.1	-0.1%
LNR_BN1_110	421657	563746	27.86	5	28.1	28.1	-0.1%
LNR_BN1_120	421655	563736	27.86	5	28.1	28.1	-0.1%
LNR_BN1_130	421653	563727	27.86	5	28.1	28.1	-0.1%
LNR_BN1_140	421651	563717	27.86	5	28.1	28.1	-0.2%

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LNR_BN1_150	421648	563707	27.86	5	28.1	28.1	-0.2%
LNR_BN1_160	421646	563697	27.86	5	28.1	28.1	-0.2%
LNR_BN1_170	421644	563688	27.86	5	28.1	28.1	-0.2%
LNR_BN1_180	421642	563678	27.86	5	28.1	28.1	-0.2%
LNR_BN1_190	421640	563668	27.86	5	28.1	28.1	-0.1%
LNR_BN1_200	421638	563658	27.86	5	28.1	28.1	-0.1%
LNR_CL1_000	421260	562247	27.86	No Habitat	-	-	No Habitat
LNR_CL1_010	421257	562238	27.86	No Habitat	-	-	No Habitat
LNR_CL1_020	421254	562228	27.86	No Habitat	-	-	No Habitat
LNR_CL1_030	421252	562218	27.86	No Habitat	-	-	No Habitat
LNR_CL1_040	421249	562209	27.86	No Habitat	-	-	No Habitat
LNR_CL1_050	421246	562199	27.86	No Habitat	-	-	No Habitat
LNR_CL1_060	421244	562189	27.86	No Habitat	-	-	No Habitat
LNR_CL1_070	421241	562180	27.86	No Habitat	-	-	No Habitat
LNR_CL1_080	421238	562170	27.86	No Habitat	-	-	No Habitat
LNR_CL1_090	421236	562161	27.86	No Habitat	-	-	No Habitat
LNR_CL1_100	421233	562151	27.86	No Habitat	-	-	No Habitat
LNR_CL1_110	421230	562141	27.86	No Habitat	-	-	No Habitat
LNR_CL1_120	421228	562132	27.86	No Habitat	-	-	No Habitat
LNR_CL1_130	421225	562122	27.86	No Habitat	-	-	No Habitat
LNR_CL1_140	421222	562112	27.86	No Habitat	-	-	No Habitat
LNR_CL1_150	421220	562103	27.86	No Habitat	-	-	No Habitat
LNR_CL1_160	421217	562093	27.86	No Habitat	-	-	No Habitat
LNR_CL1_170	421214	562083	27.86	No Habitat	-	-	No Habitat
LNR_CL1_180	421212	562074	27.86	No Habitat	-	-	No Habitat
LNR_CL1_190	421209	562064	27.86	No Habitat	-	-	No Habitat
LNR_CL1_200	421206	562055	27.86	No Habitat	-	-	No Habitat
LNR_DD1_000	419448	564830	26.88	10	33.4	33.1	-2.5%

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LNR_DD1_010	419458	564830	26.88	10	31.9	31.8	-1.6%
LNR_DD1_020	419468	564829	26.88	10	31.0	30.9	-1.3%
LNR_DD1_030	419478	564829	26.88	10	30.4	30.3	-1.1%
LNR_DD1_040	419488	564829	26.88	10	30.0	29.9	-1.0%
LNR_DD1_050	419498	564829	26.88	10	29.6	29.6	-0.9%
LNR_DD1_060	419508	564829	26.88	10	29.4	29.3	-0.8%
LNR_DD1_070	419518	564829	26.88	10	29.2	29.1	-0.8%
LNR_DD1_080	419528	564829	26.88	10	29.0	28.9	-0.8%
LNR_DD1_090	419538	564829	26.88	10	28.8	28.8	-0.7%
LNR_DD1_100	419548	564829	26.88	10	28.7	28.6	-0.6%
LNR_DD1_110	419558	564829	26.88	10	28.6	28.5	-0.6%
LNR_DD1_120	419568	564829	26.88	10	28.5	28.4	-0.6%
LNR_DD1_130	419578	564829	26.88	10	28.4	28.3	-0.6%
LNR_DD1_140	419588	564829	26.88	10	28.3	28.3	-0.5%
LNR_DD1_150	419598	564829	26.88	10	28.3	28.2	-0.5%
LNR_DD1_160	419608	564829	26.88	10	28.2	28.2	-0.5%
LNR_DD1_170	419618	564829	26.88	10	28.1	28.1	-0.5%
LNR_DD1_180	419628	564829	26.88	10	28.1	28.1	-0.4%
LNR_DD1_190	419638	564829	26.88	10	28.1	28.0	-0.4%
LNR_DD1_200	419648	564829	26.88	10	28.0	28.0	-0.4%
LNR_DD2_000	419727	564698	26.88	10	28.1	28.1	0.2%
LNR_DD2_010	419718	564700	26.88	10	27.9	27.9	-0.1%
LNR_DD2_020	419708	564703	26.88	10	27.9	27.9	-0.2%
LNR_DD2_030	419698	564706	26.88	10	27.9	27.9	-0.3%
LNR_DD2_040	419689	564709	26.88	10	27.9	27.9	-0.3%
LNR_DD2_050	419679	564712	26.88	10	28.0	27.9	-0.4%
LNR_DD2_060	419670	564714	26.88	10	28.0	27.9	-0.4%
LNR_DD2_070	419660	564717	26.88	10	28.0	28.0	-0.4%

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LNR_DD2_080	419650	564720	26.88	10	28.0	28.0	-0.4%
LNR_DD2_090	419641	564723	26.88	10	28.1	28.0	-0.4%
LNR_DD2_100	419631	564725	26.88	10	28.1	28.1	-0.4%
LNR_DD2_110	419621	564728	26.88	10	28.2	28.1	-0.5%
LNR_DD2_120	419612	564731	26.88	10	28.2	28.2	-0.5%
LNR_DD2_130	419602	564734	26.88	10	28.3	28.2	-0.5%
LNR_DD2_140	419593	564736	26.88	10	28.3	28.3	-0.5%
LNR_DD2_150	419583	564739	26.88	10	28.4	28.4	-0.6%
LNR_DD2_160	419573	564742	26.88	10	28.5	28.4	-0.6%
LNR_DD2_170	419564	564745	26.88	10	28.6	28.5	-0.6%
LNR_DD2_180	419554	564747	26.88	10	28.7	28.6	-0.7%
LNR_DD2_190	419545	564750	26.88	10	28.8	28.7	-0.7%
LNR_DD2_200	419535	564753	26.88	10	29.0	28.9	-0.8%
LNR_SP1_000	419465	563344	26.88	10	33.2	32.6	-5.3%
LNR_SP1_010	419455	563340	26.88	10	29.9	29.6	-2.7%
LNR_SP1_020	419446	563336	26.88	10	28.9	28.7	-1.8%
LNR_SP1_030	419437	563332	26.88	10	28.4	28.3	-1.3%
LNR_SP1_040	419428	563328	26.88	10	28.1	28.0	-1.1%
LNR_SP1_050	419419	563325	26.88	10	27.9	27.8	-0.9%
LNR_SP1_060	419409	563321	26.88	10	27.8	27.7	-0.8%
LNR_SP1_070	419400	563317	26.88	10	27.7	27.6	-0.6%
LNR_SP1_080	419391	563313	26.88	10	27.6	27.5	-0.6%
LNR_SP1_090	419382	563309	26.88	10	27.5	27.5	-0.5%
LNR_SP1_100	419372	563306	26.88	10	27.5	27.4	-0.5%
LNR_SP1_110	419363	563302	26.88	10	27.4	27.4	-0.4%
LNR_SP1_120	419354	563298	26.88	10	27.4	27.4	-0.4%
LNR_SP1_130	419345	563294	26.88	10	27.4	27.3	-0.4%
LNR_SP1_140	419335	563290	26.88	10	27.3	27.3	-0.3%

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LNR_SP1_150	419326	563286	26.88	10	27.3	27.3	-0.3%
LNR_SP1_160	419317	563283	26.88	10	27.3	27.3	-0.2%
LNR_SP1_170	419308	563279	26.88	10	27.3	27.2	-0.3%
LNR_SP1_180	419298	563275	26.88	10	27.3	27.2	-0.2%
LNR_SP1_190	419289	563271	26.88	10	27.2	27.2	-0.2%
LNR_SP1_200	419280	563267	26.88	10	27.2	27.2	-0.2%
LWS_AP1_000	419698	562370	26.88	10	27.2	27.2	0.0%
LWS_AP1_010	419692	562362	26.88	10	27.1	27.1	-0.1%
LWS_AP1_020	419686	562354	26.88	10	27.1	27.1	0.0%
LWS_AP1_030	419679	562347	26.88	10	27.1	27.1	0.0%
LWS_AP1_040	419673	562339	26.88	10	27.1	27.1	0.0%
LWS_AP1_050	419667	562331	26.88	10	27.1	27.1	0.0%
LWS_AP1_060	419661	562323	26.88	10	27.1	27.1	0.0%
LWS_AP1_070	419655	562315	26.88	10	27.1	27.1	0.0%
LWS_AP1_080	419649	562307	26.88	10	27.1	27.1	0.0%
LWS_AP1_090	419643	562299	26.88	10	27.1	27.1	0.0%
LWS_AP1_100	419636	562292	26.88	10	27.1	27.1	0.0%
LWS_AP1_110	419630	562284	26.88	10	27.1	27.0	0.0%
LWS_AP1_120	419624	562276	26.88	10	27.0	27.0	0.0%
LWS_AP1_130	419618	562268	26.88	10	27.0	27.0	0.0%
LWS_AP1_140	419612	562260	26.88	10	27.0	27.0	0.0%
LWS_AP1_150	419606	562252	26.88	10	27.0	27.0	0.0%
LWS_AP1_160	419599	562244	26.88	10	27.0	27.0	0.0%
LWS_AP1_170	419593	562236	26.88	10	27.0	27.0	0.0%
LWS_AP1_180	419587	562229	26.88	10	27.0	27.0	0.0%
LWS_AP1_190	419581	562221	26.88	10	27.0	27.0	0.0%
LWS_AP1_200	419575	562213	26.88	10	27.0	27.0	0.0%
LWS_BN1_000	427860	556756	28.84	10	29.7	29.7	-0.2%

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_BN1_010	427851	556760	28.84	10	29.7	29.7	-0.2%
LWS_BN1_020	427842	556764	28.84	10	29.7	29.7	-0.2%
LWS_BN1_030	427833	556767	28.84	10	29.7	29.6	-0.2%
LWS_BN1_040	427823	556771	28.84	10	29.7	29.6	-0.2%
LWS_BN1_050	427814	556775	28.84	10	29.6	29.6	-0.2%
LWS_BN1_060	427805	556779	28.84	10	29.6	29.6	-0.2%
LWS_BN1_070	427796	556783	28.84	10	29.6	29.6	-0.2%
LWS_BN1_080	427787	556787	28.84	10	29.6	29.6	-0.2%
LWS_BN1_090	427777	556791	28.84	10	29.6	29.6	-0.2%
LWS_BN1_100	427768	556795	28.84	10	29.6	29.6	-0.1%
LWS_BN1_110	427759	556799	28.84	10	29.6	29.6	-0.1%
LWS_BN1_120	427750	556803	28.84	10	29.6	29.6	-0.1%
LWS_BN1_130	427741	556807	28.84	10	29.6	29.6	-0.1%
LWS_BN1_140	427731	556810	28.84	10	29.6	29.5	-0.1%
LWS_BN1_150	427722	556814	28.84	10	29.5	29.5	-0.1%
LWS_BN1_160	427713	556818	28.84	10	29.5	29.5	-0.2%
LWS_BN1_170	427704	556822	28.84	10	29.5	29.5	-0.1%
LWS_BN1_180	427695	556826	28.84	10	29.5	29.5	-0.1%
LWS_BN1_190	427685	556830	28.84	10	29.5	29.5	-0.2%
LWS_BN1_200	427676	556834	28.84	10	29.5	29.5	-0.1%
LWS_BN2_000	427841	556833	28.84	10	30.1	30.1	-0.3%
LWS_BN2_010	427837	556824	28.84	10	30.0	30.0	-0.3%
LWS_BN2_020	427832	556815	28.84	10	29.9	29.9	-0.2%
LWS_BN2_030	427828	556806	28.84	10	29.8	29.8	-0.2%
LWS_BN2_040	427824	556797	28.84	10	29.8	29.7	-0.2%
LWS_BN2_050	427820	556788	28.84	10	29.7	29.7	-0.2%
LWS_BN2_060	427816	556779	28.84	10	29.7	29.6	-0.2%
LWS_BN2_070	427811	556770	28.84	10	29.6	29.6	-0.2%

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_BN2_080	427807	556761	28.84	10	29.6	29.6	-0.2%
LWS_BN2_090	427803	556752	28.84	10	29.5	29.5	-0.2%
LWS_BN2_100	427799	556743	28.84	10	29.5	29.5	-0.1%
LWS_BN2_110	427795	556734	28.84	10	29.5	29.5	-0.1%
LWS_BN2_120	427791	556725	28.84	10	29.5	29.5	-0.1%
LWS_BN2_130	427786	556715	28.84	10	29.4	29.4	-0.1%
LWS_BN2_140	427782	556706	28.84	10	29.4	29.4	-0.1%
LWS_BN2_150	427778	556697	28.84	10	29.4	29.4	-0.1%
LWS_BN2_160	427774	556688	28.84	10	29.4	29.4	-0.1%
LWS_BN2_170	427770	556679	28.84	10	29.4	29.4	-0.1%
LWS_BN2_180	427765	556670	28.84	10	29.4	29.3	-0.1%
LWS_BN2_190	427761	556661	28.84	10	29.3	29.3	-0.1%
LWS_BN2_200	427757	556652	28.84	10	29.3	29.3	-0.1%
LWS_BR1_000	426910	557208	28.84	10	33.1	33.1	0.2%
LWS_BR1_010	426903	557202	28.84	10	30.5	30.5	0.0%
LWS_BR1_020	426895	557195	28.84	10	30.0	30.0	0.0%
LWS_BR1_030	426888	557188	28.84	10	29.8	29.8	0.0%
LWS_BR1_040	426880	557182	28.84	10	29.6	29.6	0.0%
LWS_BR1_050	426872	557175	28.84	10	29.6	29.6	0.0%
LWS_BR1_060	426865	557169	28.84	10	29.5	29.5	0.0%
LWS_BR1_070	426857	557162	28.84	10	29.4	29.4	0.0%
LWS_BR1_080	426850	557156	28.84	10	29.4	29.4	0.0%
LWS_BR1_090	426842	557149	28.84	10	29.4	29.4	0.0%
LWS_BR1_100	426835	557143	28.84	10	29.3	29.3	0.0%
LWS_BR1_110	426827	557136	28.84	10	29.3	29.3	0.0%
LWS_BR1_120	426820	557129	28.84	10	29.3	29.3	0.0%
LWS_BR1_130	426812	557123	28.84	10	29.3	29.3	0.0%
LWS_BR1_140	426805	557116	28.84	10	29.2	29.2	0.0%

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_BR1_150	426797	557110	28.84	10	29.2	29.2	0.0%
LWS_BR1_160	426789	557103	28.84	10	29.2	29.2	0.0%
LWS_BR1_170	426782	557097	28.84	10	29.2	29.2	0.0%
LWS_BR1_180	426774	557090	28.84	10	29.2	29.2	0.0%
LWS_BR1_190	426767	557084	28.84	10	29.2	29.2	0.0%
LWS_BR1_200	426759	557077	28.84	10	29.2	29.2	0.0%
LWS_BR2_000	426928	557201	28.84	10	37.1	37.1	0.5%
LWS_BR2_010	426936	557206	28.84	10	32.7	32.7	0.2%
LWS_BR2_020	426945	557212	28.84	10	31.5	31.5	0.1%
LWS_BR2_030	426953	557217	28.84	10	30.9	30.9	0.1%
LWS_BR2_040	426961	557223	28.84	10	30.6	30.6	0.0%
LWS_BR2_050	426970	557228	28.84	10	30.4	30.4	0.0%
LWS_BR2_060	426978	557234	28.84	10	30.3	30.3	0.0%
LWS_BR2_070	426987	557239	28.84	10	30.2	30.2	0.0%
LWS_BR2_080	426995	557245	28.84	10	30.2	30.2	-0.1%
LWS_BR2_090	427003	557250	28.84	10	30.2	30.2	-0.1%
LWS_BR2_100	427012	557256	28.84	10	30.2	30.2	-0.2%
LWS_BR2_110	427020	557261	28.84	10	30.2	30.2	-0.2%
LWS_BR2_120	427028	557267	28.84	10	30.2	30.2	-0.3%
LWS_BR2_130	427037	557272	28.84	10	30.3	30.2	-0.4%
LWS_BR2_140	427045	557278	28.84	10	30.4	30.3	-0.5%
LWS_BR2_150	427053	557283	28.84	10	30.5	30.4	-0.6%
LWS_BR2_160	427062	557289	28.84	10	30.6	30.6	-0.9%
LWS_BR2_170	427070	557294	28.84	10	30.9	30.8	-1.2%
LWS_BR2_180	427078	557300	28.84	10	31.2	31.0	-1.8%
LWS_BR2_190	427087	557305	28.84	10	31.8	31.5	-3.0%
LWS_BR2_200	427095	557311	28.84	10	32.9	32.3	-6.0%
LWS_BW1_000	423465	573354	25.2	10	27.9	27.7	-2.3%

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_BW1_010	423455	573353	25.2	10	27.1	27.0	-1.6%
LWS_BW1_020	423445	573352	25.2	10	26.7	26.6	-1.2%
LWS_BW1_030	423435	573350	25.2	10	26.4	26.3	-1.0%
LWS_BW1_040	423425	573349	25.2	10	26.3	26.2	-0.8%
LWS_BW1_050	423416	573348	25.2	10	26.1	26.1	-0.7%
LWS_BW1_060	423406	573346	25.2	10	26.0	26.0	-0.6%
LWS_BW1_070	423396	573345	25.2	10	25.9	25.9	-0.5%
LWS_BW1_080	423386	573343	25.2	10	25.9	25.8	-0.5%
LWS_BW1_090	423376	573342	25.2	10	25.8	25.8	-0.4%
LWS_BW1_100	423366	573341	25.2	10	25.8	25.8	-0.4%
LWS_BW1_110	423356	573339	25.2	10	25.8	25.7	-0.4%
LWS_BW1_120	423346	573338	25.2	10	25.7	25.7	-0.4%
LWS_BW1_130	423336	573337	25.2	10	25.7	25.7	-0.3%
LWS_BW1_140	423326	573335	25.2	10	25.7	25.6	-0.3%
LWS_BW1_150	423317	573334	25.2	10	25.7	25.6	-0.3%
LWS_BW1_160	423307	573332	25.2	10	25.6	25.6	-0.3%
LWS_BW1_170	423297	573331	25.2	10	25.6	25.6	-0.3%
LWS_BW1_180	423287	573330	25.2	10	25.6	25.6	-0.2%
LWS_BW1_190	423277	573328	25.2	10	25.6	25.6	-0.2%
LWS_BW1_200	423267	573327	25.2	10	25.6	25.6	-0.2%
LWS_BW2_000	423444	573507	25.2	10	29.5	29.1	-3.9%
LWS_BW2_010	423434	573505	25.2	10	27.7	27.5	-2.2%
LWS_BW2_020	423424	573503	25.2	10	27.0	26.9	-1.5%
LWS_BW2_030	423414	573501	25.2	10	26.6	26.5	-1.2%
LWS_BW2_040	423405	573499	25.2	10	26.4	26.3	-1.0%
LWS_BW2_050	423395	573496	25.2	10	26.2	26.1	-0.8%
LWS_BW2_060	423385	573494	25.2	10	26.1	26.0	-0.7%
LWS_BW2_070	423375	573492	25.2	10	26.0	25.9	-0.6%

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_BW2_080	423366	573490	25.2	10	25.9	25.9	-0.6%
LWS_BW2_090	423356	573488	25.2	10	25.9	25.8	-0.5%
LWS_BW2_100	423346	573486	25.2	10	25.8	25.8	-0.4%
LWS_BW2_110	423336	573484	25.2	10	25.8	25.7	-0.4%
LWS_BW2_120	423326	573482	25.2	10	25.7	25.7	-0.4%
LWS_BW2_130	423317	573480	25.2	10	25.7	25.7	-0.4%
LWS_BW2_140	423307	573478	25.2	10	25.7	25.6	-0.3%
LWS_BW2_150	423297	573476	25.2	10	25.7	25.6	-0.3%
LWS_BW2_160	423287	573474	25.2	10	25.6	25.6	-0.3%
LWS_BW2_170	423277	573472	25.2	10	25.6	25.6	-0.3%
LWS_BW2_180	423268	573470	25.2	10	25.6	25.6	-0.3%
LWS_BW2_190	423258	573468	25.2	10	25.6	25.6	-0.2%
LWS_BW2_200	423248	573466	25.2	10	25.6	25.6	-0.2%
LWS_DD1_000	420076	565244	29.4	10	30.9	30.9	0.6%
LWS_DD1_010	420069	565251	29.4	10	30.4	30.5	0.2%
LWS_DD1_020	420062	565257	29.4	10	30.3	30.3	0.1%
LWS_DD1_030	420054	565264	29.4	10	30.2	30.2	0.0%
LWS_DD1_040	420047	565271	29.4	10	30.2	30.2	0.0%
LWS_DD1_050	420039	565278	29.4	10	30.2	30.2	-0.1%
LWS_DD1_060	420032	565284	29.4	10	30.2	30.1	-0.1%
LWS_DD1_070	420025	565291	29.4	10	30.2	30.1	-0.1%
LWS_DD1_080	420017	565298	29.4	10	30.2	30.1	-0.2%
LWS_DD1_090	420010	565305	29.4	10	30.2	30.1	-0.2%
LWS_DD1_100	420003	565312	29.4	10	30.2	30.2	-0.2%
LWS_DD1_110	419995	565318	31.08	10	31.9	31.8	-0.2%
LWS_DD1_120	419988	565325	31.08	10	31.9	31.8	-0.2%
LWS_DD1_130	419981	565332	31.08	10	31.9	31.9	-0.2%
LWS_DD1_140	419973	565339	31.08	10	31.9	31.9	-0.2%

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_DD1_150	419966	565345	31.08	10	31.9	31.9	-0.3%
LWS_DD1_160	419958	565352	31.08	10	31.9	31.9	-0.2%
LWS_DD1_170	419951	565359	31.08	10	31.9	31.9	-0.3%
LWS_DD1_180	419944	565366	31.08	10	32.0	31.9	-0.3%
LWS_DD1_190	419936	565372	31.08	10	32.0	31.9	-0.3%
LWS_DD1_200	419929	565379	31.08	10	32.0	32.0	-0.3%
LWS_DD2_000	420129	565429	29.4	10	30.8	30.8	0.2%
LWS_DD2_010	420124	565420	29.4	10	30.5	30.5	0.1%
LWS_DD2_020	420120	565411	29.4	10	30.4	30.4	0.0%
LWS_DD2_030	420115	565402	29.4	10	30.3	30.3	0.0%
LWS_DD2_040	420111	565393	29.4	10	30.3	30.3	-0.1%
LWS_DD2_050	420107	565384	29.4	10	30.3	30.3	-0.1%
LWS_DD2_060	420102	565375	29.4	10	30.2	30.2	-0.1%
LWS_DD2_070	420098	565366	29.4	10	30.2	30.2	-0.1%
LWS_DD2_080	420094	565357	29.4	10	30.2	30.2	-0.1%
LWS_DD2_090	420089	565348	29.4	10	30.2	30.2	-0.1%
LWS_DD2_100	420085	565339	29.4	10	30.2	30.2	-0.1%
LWS_DD2_110	420080	565330	29.4	10	30.2	30.2	-0.1%
LWS_DD2_120	420076	565321	29.4	10	30.2	30.2	-0.1%
LWS_DD2_130	420072	565312	29.4	10	30.2	30.2	-0.1%
LWS_DD2_140	420067	565303	29.4	10	30.2	30.2	-0.1%
LWS_DD2_150	420063	565294	29.4	10	30.2	30.2	-0.1%
LWS_DD2_160	420059	565285	29.4	10	30.2	30.2	0.0%
LWS_DD2_170	420054	565276	29.4	10	30.2	30.2	-0.1%
LWS_DD2_180	420050	565267	29.4	10	30.2	30.2	0.0%
LWS_DD2_190	420045	565258	29.4	10	30.2	30.2	0.0%
LWS_DD2_200	420041	565249	29.4	10	30.2	30.2	0.0%
LWS_DF1_000	427187	557310	28.84	No Habitat	-	-	No Habitat

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_DF1_010	427193	557318	28.84	No Habitat	-	-	No Habitat
LWS_DF1_020	427198	557327	28.84	No Habitat	-	-	No Habitat
LWS_DF1_030	427203	557335	28.84	No Habitat	-	-	No Habitat
LWS_DF1_040	427209	557344	28.84	No Habitat	-	-	No Habitat
LWS_DF1_050	427214	557352	28.84	No Habitat	-	-	No Habitat
LWS_DF1_060	427220	557360	28.84	No Habitat	-	-	No Habitat
LWS_DF1_070	427225	557369	28.84	No Habitat	-	-	No Habitat
LWS_DF1_080	427230	557377	28.84	No Habitat	-	-	No Habitat
LWS_DF1_090	427236	557386	28.84	No Habitat	-	-	No Habitat
LWS_DF1_100	427241	557394	28.84	No Habitat	-	-	No Habitat
LWS_DF1_110	427246	557403	28.84	No Habitat	-	-	No Habitat
LWS_DF1_120	427252	557411	28.84	No Habitat	-	-	No Habitat
LWS_DF1_130	427257	557419	28.84	No Habitat	-	-	No Habitat
LWS_DF1_140	427263	557428	28.84	No Habitat	-	-	No Habitat
LWS_DF1_150	427268	557436	28.84	No Habitat	-	-	No Habitat
LWS_DF1_160	427273	557445	28.84	No Habitat	-	-	No Habitat
LWS_DF1_170	427279	557453	28.84	No Habitat	-	-	No Habitat
LWS_DF1_180	427284	557462	28.84	No Habitat	-	-	No Habitat
LWS_DF1_190	427289	557470	28.84	No Habitat	-	-	No Habitat
LWS_DF1_200	427295	557478	28.84	No Habitat	-	-	No Habitat
LWS_DP1_000	428137	557868	28.84	No Habitat	-	-	No Habitat
LWS_DP1_010	428132	557860	28.84	No Habitat	-	-	No Habitat
LWS_DP1_020	428127	557851	28.84	No Habitat	-	-	No Habitat
LWS_DP1_030	428122	557842	28.84	No Habitat	-	-	No Habitat
LWS_DP1_040	428117	557834	28.84	No Habitat	-	-	No Habitat
LWS_DP1_050	428111	557825	28.84	No Habitat	-	-	No Habitat
LWS_DP1_060	428106	557816	28.84	No Habitat	-	-	No Habitat
LWS_DP1_070	428101	557808	28.84	No Habitat	-	-	No Habitat

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_DP1_080	428096	557799	28.84	No Habitat	-	-	No Habitat
LWS_DP1_090	428091	557791	28.84	No Habitat	-	-	No Habitat
LWS_DP1_100	428086	557782	28.84	No Habitat	-	-	No Habitat
LWS_DP1_110	428081	557773	28.84	No Habitat	-	-	No Habitat
LWS_DP1_120	428076	557765	28.84	No Habitat	-	-	No Habitat
LWS_DP1_130	428071	557756	28.84	No Habitat	-	-	No Habitat
LWS_DP1_140	428066	557747	28.84	No Habitat	-	-	No Habitat
LWS_DP1_150	428061	557739	28.84	No Habitat	-	-	No Habitat
LWS_DP1_160	428056	557730	28.84	No Habitat	-	-	No Habitat
LWS_DP1_170	428051	557721	28.84	No Habitat	-	-	No Habitat
LWS_DP1_180	428046	557713	28.84	No Habitat	-	-	No Habitat
LWS_DP1_190	428041	557704	28.84	No Habitat	-	-	No Habitat
LWS_DP1_200	428036	557696	28.84	No Habitat	-	-	No Habitat
LWS_LA1_000	426139	557803	28.84	10	31.2	31.2	-0.5%
LWS_LA1_010	426133	557795	28.84	10	30.6	30.6	0.0%
LWS_LA1_020	426126	557788	28.84	10	30.3	30.3	0.1%
LWS_LA1_030	426119	557781	28.84	10	30.1	30.1	0.1%
LWS_LA1_040	426112	557773	28.84	10	29.9	29.9	0.1%
LWS_LA1_050	426106	557766	28.84	10	29.8	29.8	0.2%
LWS_LA1_060	426099	557758	28.84	10	29.7	29.7	0.1%
LWS_LA1_070	426092	557751	28.84	10	29.6	29.6	0.1%
LWS_LA1_080	426086	557744	28.84	10	29.6	29.6	0.1%
LWS_LA1_090	426079	557736	28.84	10	29.5	29.5	0.1%
LWS_LA1_100	426072	557729	28.84	10	29.5	29.5	0.1%
LWS_LA1_110	426065	557721	28.84	10	29.4	29.4	0.1%
LWS_LA1_120	426059	557714	28.84	10	29.4	29.4	0.1%
LWS_LA1_130	426052	557707	28.84	10	29.4	29.4	0.1%
LWS_LA1_140	426045	557699	28.84	10	29.3	29.3	0.1%

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_LA1_150	426039	557692	28.84	10	29.3	29.3	0.1%
LWS_LA1_160	426032	557684	28.84	10	29.3	29.3	0.1%
LWS_LA1_170	426025	557677	28.84	10	29.3	29.3	0.1%
LWS_LA1_180	426018	557670	28.84	10	29.3	29.3	0.1%
LWS_LA1_190	426012	557662	28.84	10	29.2	29.2	0.0%
LWS_LA1_200	426005	557655	28.84	10	29.2	29.2	0.1%
LWS_LA2_000	425794	558215	28.84	10	36.1	39.2	30.7%
LWS_LA2_010	425787	558209	28.84	10	32.2	32.7	4.5%
LWS_LA2_020	425779	558202	28.84	10	31.2	31.5	2.4%
LWS_LA2_030	425771	558195	28.84	10	30.8	30.9	1.7%
LWS_LA2_040	425764	558189	28.84	10	30.5	30.6	1.4%
LWS_LA2_050	425756	558182	28.84	10	30.3	30.4	1.1%
LWS_LA2_060	425749	558176	28.84	10	30.1	30.2	0.9%
LWS_LA2_070	425741	558169	28.84	10	30.0	30.1	0.9%
LWS_LA2_080	425734	558162	28.84	10	30.0	30.0	0.8%
LWS_LA2_090	425726	558156	28.84	10	29.9	30.0	0.7%
LWS_LA2_100	425719	558149	28.84	10	29.8	29.9	0.6%
LWS_LA2_110	425711	558143	28.84	10	29.8	29.8	0.6%
LWS_LA2_120	425704	558136	28.84	10	29.7	29.8	0.5%
LWS_LA2_130	425696	558130	28.84	10	29.7	29.7	0.5%
LWS_LA2_140	425689	558123	28.84	10	29.6	29.7	0.5%
LWS_LA2_150	425681	558116	28.84	10	29.6	29.6	0.4%
LWS_LA2_160	425674	558110	28.84	10	29.5	29.6	0.4%
LWS_LA2_170	425666	558103	28.84	10	29.5	29.6	0.4%
LWS_LA2_180	425659	558097	28.84	10	29.5	29.5	0.3%
LWS_LA2_190	425651	558090	28.84	10	29.5	29.5	0.3%
LWS_LA2_200	425643	558084	28.84	10	29.4	29.5	0.3%
LWS_LA3_000	425709	558192	28.84	10	30.7	30.9	1.5%

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_LA3_010	425717	558187	28.84	10	30.3	30.4	1.1%
LWS_LA3_020	425726	558182	28.84	10	30.1	30.2	1.0%
LWS_LA3_030	425735	558177	28.84	10	30.1	30.2	0.9%
LWS_LA3_040	425743	558172	28.84	10	30.1	30.2	0.9%
LWS_LA3_050	425752	558167	28.84	10	30.1	30.2	0.9%
LWS_LA3_060	425761	558162	28.84	10	30.1	30.2	0.9%
LWS_LA3_070	425769	558157	28.84	10	30.1	30.2	0.9%
LWS_LA3_080	425778	558152	28.84	10	30.2	30.3	1.0%
LWS_LA3_090	425787	558147	28.84	10	30.2	30.3	1.0%
LWS_LD1_000	426680	557412	28.84	10	30.6	30.6	-0.4%
LWS_LD1_010	426671	557408	28.84	10	30.3	30.3	-0.2%
LWS_LD1_020	426662	557405	28.84	10	30.1	30.1	-0.1%
LWS_LD1_030	426652	557401	28.84	10	30.0	29.9	-0.1%
LWS_LD1_040	426643	557398	28.84	10	29.8	29.8	-0.1%
LWS_LD1_050	426634	557394	28.84	10	29.8	29.8	0.0%
LWS_LD1_060	426624	557390	28.84	10	29.7	29.7	0.0%
LWS_LD1_070	426615	557387	28.84	10	29.6	29.6	0.0%
LWS_LD1_080	426606	557383	28.84	10	29.6	29.6	0.0%
LWS_LD1_090	426596	557380	28.84	10	29.5	29.5	0.0%
LWS_LD1_100	426587	557376	28.84	10	29.5	29.5	0.0%
LWS_LD1_110	426578	557373	28.84	10	29.5	29.5	0.0%
LWS_LD1_120	426568	557369	28.84	10	29.4	29.4	0.0%
LWS_LD1_130	426559	557366	28.84	10	29.4	29.4	0.0%
LWS_LD1_140	426550	557362	28.84	10	29.4	29.4	0.0%
LWS_LD1_150	426540	557359	28.84	10	29.4	29.4	0.0%
LWS_LD1_160	426531	557355	28.84	10	29.3	29.3	0.0%
LWS_LD1_170	426522	557352	28.84	10	29.3	29.3	0.0%
LWS_LD1_180	426512	557348	28.84	10	29.3	29.3	0.0%

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_LD1_190	426503	557344	28.84	10	29.3	29.3	0.0%
LWS_LD1_200	426494	557341	28.84	10	29.3	29.3	0.0%
LWS_LD2_000	426638	557430	28.84	10	30.3	30.2	-0.4%
LWS_LD2_010	426634	557421	28.84	10	30.0	30.0	-0.2%
LWS_LD2_020	426631	557411	28.84	10	29.9	29.9	-0.1%
LWS_LD2_030	426627	557402	28.84	10	29.8	29.8	0.0%
LWS_LD2_040	426624	557393	28.84	10	29.7	29.7	0.0%
LWS_LD2_050	426620	557383	28.84	10	29.6	29.6	0.0%
LWS_LD2_060	426617	557374	28.84	10	29.6	29.6	0.0%
LWS_LD2_070	426613	557365	28.84	10	29.5	29.5	0.0%
LWS_LD2_080	426610	557355	28.84	10	29.5	29.5	0.0%
LWS_LD2_090	426606	557346	28.84	10	29.4	29.4	0.0%
LWS_LD2_100	426603	557337	28.84	10	29.4	29.4	0.0%
LWS_LD2_110	426599	557327	28.84	10	29.4	29.4	0.0%
LWS_LD2_120	426596	557318	28.84	10	29.4	29.4	0.0%
LWS_LD2_130	426592	557308	28.84	10	29.3	29.3	0.0%
LWS_LD2_140	426589	557299	28.84	10	29.3	29.3	0.0%
LWS_LD2_150	426585	557290	28.84	10	29.3	29.3	0.0%
LWS_LD2_160	426582	557280	28.84	10	29.3	29.3	0.0%
LWS_LD2_170	426578	557271	28.84	10	29.3	29.3	0.0%
LWS_LD2_180	426575	557262	28.84	10	29.2	29.2	0.0%
LWS_LD2_190	426571	557252	28.84	10	29.2	29.2	0.0%
LWS_LD2_200	426568	557243	28.84	10	29.2	29.2	0.0%
LWS_LM1_000	425202	557940	28.84	No Habitat	-	-	No Habitat
LWS_LM1_010	425200	557930	28.84	No Habitat	-	-	No Habitat
LWS_LM1_020	425197	557921	28.84	No Habitat	-	-	No Habitat
LWS_LM1_030	425195	557911	28.84	No Habitat	-	-	No Habitat
LWS_LM1_040	425193	557901	28.84	No Habitat	-	-	No Habitat

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_LM1_050	425190	557891	28.84	No Habitat	-	-	No Habitat
LWS_LM1_060	425188	557882	28.84	No Habitat	-	-	No Habitat
LWS_LM1_070	425186	557872	28.84	No Habitat	-	-	No Habitat
LWS_LM1_080	425183	557862	28.84	No Habitat	-	-	No Habitat
LWS_LM1_090	425181	557853	28.84	No Habitat	-	-	No Habitat
LWS_LM1_100	425179	557843	28.84	No Habitat	-	-	No Habitat
LWS_LM1_110	425176	557833	28.84	No Habitat	-	-	No Habitat
LWS_LM1_120	425174	557823	28.84	No Habitat	-	-	No Habitat
LWS_LM1_130	425172	557814	28.84	No Habitat	-	-	No Habitat
LWS_LM1_140	425169	557804	28.84	No Habitat	-	-	No Habitat
LWS_LM1_150	425167	557794	28.84	No Habitat	-	-	No Habitat
LWS_LM1_160	425165	557784	28.84	No Habitat	-	-	No Habitat
LWS_LM1_170	425162	557775	28.84	No Habitat	-	-	No Habitat
LWS_LM1_180	425160	557765	28.84	No Habitat	-	-	No Habitat
LWS_LM1_190	425158	557755	28.84	No Habitat	-	-	No Habitat
LWS_LM1_200	425155	557746	28.84	No Habitat	-	-	No Habitat
LWS_LW1_000	423475	573508	25.2	10	33.2	32.8	-4.5%
LWS_LW1_010	423485	573510	25.2	10	30.4	30.1	-3.4%
LWS_LW1_020	423495	573512	25.2	10	29.1	28.8	-2.7%
LWS_LW1_030	423505	573514	25.2	10	28.3	28.1	-2.2%
LWS_LW1_040	423515	573516	25.2	10	27.9	27.7	-2.0%
LWS_LW1_050	423524	573518	25.2	10	27.5	27.3	-1.7%
LWS_LW1_060	423534	573520	25.2	10	27.2	27.1	-1.5%
LWS_LW1_070	423544	573522	25.2	10	27.0	26.9	-1.4%
LWS_LW1_080	423554	573524	25.2	10	26.9	26.7	-1.2%
LWS_LW1_090	423564	573526	25.2	10	26.7	26.6	-1.1%
LWS_LW1_100	423573	573528	25.2	10	26.6	26.5	-1.0%
LWS_LW1_110	423583	573530	25.2	10	26.5	26.4	-1.0%

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_LW1_120	423593	573532	25.2	10	26.4	26.3	-0.9%
LWS_LW1_130	423603	573534	25.2	10	26.4	26.3	-0.9%
LWS_LW1_140	423613	573536	25.2	10	26.3	26.2	-0.8%
LWS_LW1_150	423622	573538	25.2	10	26.2	26.2	-0.8%
LWS_LW1_160	423632	573540	25.2	10	26.2	26.1	-0.8%
LWS_LW1_170	423642	573542	25.2	10	26.1	26.1	-0.7%
LWS_LW1_180	423652	573544	25.2	10	26.1	26.0	-0.7%
LWS_LW1_190	423662	573546	25.2	10	26.1	26.0	-0.6%
LWS_LW1_200	423671	573548	25.2	10	26.0	26.0	-0.6%
LWS_RP1_000	424142	558770	25.76	10	28.3	28.4	1.3%
LWS_RP1_010	424134	558764	25.76	10	27.6	27.7	0.8%
LWS_RP1_020	424126	558758	25.76	10	27.2	27.3	0.6%
LWS_RP1_030	424118	558751	25.76	10	26.9	27.0	0.5%
LWS_RP1_040	424111	558745	25.76	10	26.8	26.8	0.4%
LWS_RP1_050	424103	558739	25.76	10	26.6	26.7	0.3%
LWS_RP1_060	424095	558733	25.76	10	26.5	26.6	0.3%
LWS_RP1_070	424087	558727	25.76	10	26.5	26.5	0.2%
LWS_RP1_080	424079	558720	25.76	10	26.4	26.4	0.2%
LWS_RP1_090	424071	558714	25.76	10	26.3	26.3	0.2%
LWS_RP1_100	424063	558708	25.76	10	26.3	26.3	0.2%
LWS_RP1_110	424056	558702	25.76	10	26.2	26.3	0.2%
LWS_RP1_120	424048	558696	25.76	10	26.2	26.2	0.1%
LWS_RP1_130	424040	558689	25.76	10	26.2	26.2	0.1%
LWS_RP1_140	424032	558683	25.76	10	26.2	26.2	0.1%
LWS_RP1_150	424024	558677	25.76	10	26.1	26.1	0.1%
LWS_RP1_160	424016	558671	25.76	10	26.1	26.1	0.1%
LWS_RP1_170	424009	558665	25.76	10	26.1	26.1	0.1%
LWS_RP1_180	424001	558658	25.76	10	26.1	26.1	0.1%

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_RP1_190	423993	558652	25.76	10	26.1	26.1	0.1%
LWS_RP1_200	423985	558646	25.76	10	26.1	26.1	0.0%
LWS_RT1_000	419447	563921	26.88	No Habitat	-	-	No Habitat
LWS_RT1_010	419457	563919	26.88	No Habitat	-	-	No Habitat
LWS_RT1_020	419467	563918	26.88	No Habitat	-	-	No Habitat
LWS_RT1_030	419476	563917	26.88	No Habitat	-	-	No Habitat
LWS_RT1_040	419486	563915	26.88	No Habitat	-	-	No Habitat
LWS_RT1_050	419496	563914	26.88	No Habitat	-	-	No Habitat
LWS_RT1_060	419506	563913	26.88	No Habitat	-	-	No Habitat
LWS_RT1_070	419516	563911	26.88	No Habitat	-	-	No Habitat
LWS_RT1_080	419526	563910	26.88	No Habitat	-	-	No Habitat
LWS_RT1_090	419536	563909	26.88	No Habitat	-	-	No Habitat
LWS_RT1_100	419546	563908	26.88	No Habitat	-	-	No Habitat
LWS_RT1_110	419556	563906	26.88	No Habitat	-	-	No Habitat
LWS_RT1_120	419566	563905	26.88	No Habitat	-	-	No Habitat
LWS_RT1_130	419576	563904	26.88	No Habitat	-	-	No Habitat
LWS_RT1_140	419585	563902	26.88	No Habitat	-	-	No Habitat
LWS_RT1_150	419595	563901	26.88	No Habitat	-	-	No Habitat
LWS_RT1_160	419605	563900	26.88	No Habitat	-	-	No Habitat
LWS_RT1_170	419615	563898	26.88	No Habitat	-	-	No Habitat
LWS_RT1_180	419625	563897	26.88	No Habitat	-	-	No Habitat
LWS_RT1_190	419635	563896	26.88	No Habitat	-	-	No Habitat
LWS_RT1_200	419645	563894	26.88	No Habitat	-	-	No Habitat
LWS_RT2_000	419432	564018	26.88	No Habitat	-	-	No Habitat
LWS_RT2_010	419422	564019	26.88	No Habitat	-	-	No Habitat
LWS_RT2_020	419412	564020	26.88	No Habitat	-	-	No Habitat
LWS_RT2_030	419402	564021	26.88	No Habitat	-	-	No Habitat
LWS_RT2_040	419392	564022	26.88	No Habitat	-	-	No Habitat

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_RT2_050	419382	564024	26.88	No Habitat	-	-	No Habitat
LWS_RT2_060	419372	564025	26.88	No Habitat	-	-	No Habitat
LWS_RT2_070	419362	564026	26.88	No Habitat	-	-	No Habitat
LWS_RT2_080	419352	564027	26.88	No Habitat	-	-	No Habitat
LWS_RT2_090	419342	564029	26.88	No Habitat	-	-	No Habitat
LWS_RT2_100	419332	564030	26.88	No Habitat	-	-	No Habitat
LWS_RT2_110	419322	564031	26.88	No Habitat	-	-	No Habitat
LWS_RT2_120	419313	564032	26.88	No Habitat	-	-	No Habitat
LWS_RT2_130	419303	564034	26.88	No Habitat	-	-	No Habitat
LWS_RT2_140	419293	564035	26.88	No Habitat	-	-	No Habitat
LWS_RT2_150	419283	564036	26.88	No Habitat	-	-	No Habitat
LWS_RT2_160	419273	564037	26.88	No Habitat	-	-	No Habitat
LWS_RT2_170	419263	564039	26.88	No Habitat	-	-	No Habitat
LWS_RT2_180	419253	564040	26.88	No Habitat	-	-	No Habitat
LWS_RT2_190	419243	564041	26.88	No Habitat	-	-	No Habitat
LWS_RT2_200	419233	564042	26.88	No Habitat	-	-	No Habitat
LWS_SH1_000	428274	557189	28.84	No Habitat	-	-	No Habitat
LWS_SH1_010	428282	557194	28.84	No Habitat	-	-	No Habitat
LWS_SH1_020	428291	557199	28.84	No Habitat	-	-	No Habitat
LWS_SH1_030	428300	557204	28.84	No Habitat	-	-	No Habitat
LWS_SH1_040	428308	557209	28.84	No Habitat	-	-	No Habitat
LWS_SH1_050	428317	557214	28.84	No Habitat	-	-	No Habitat
LWS_SH1_060	428326	557219	28.84	No Habitat	-	-	No Habitat
LWS_SH1_070	428334	557224	28.84	No Habitat	-	-	No Habitat
LWS_SH1_080	428343	557229	28.84	No Habitat	-	-	No Habitat
LWS_SH1_090	428352	557234	28.84	No Habitat	-	-	No Habitat
LWS_SH1_100	428360	557239	28.84	No Habitat	-	-	No Habitat
LWS_SH1_110	428369	557244	28.84	No Habitat	-	-	No Habitat

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_SH1_120	428378	557249	28.84	No Habitat	-	-	No Habitat
LWS_SH1_130	428386	557254	28.84	No Habitat	-	-	No Habitat
LWS_SH1_140	428395	557259	28.84	No Habitat	-	-	No Habitat
LWS_SH1_150	428404	557264	28.84	No Habitat	-	-	No Habitat
LWS_SH1_160	428412	557269	28.84	No Habitat	-	-	No Habitat
LWS_SH1_170	428421	557274	28.84	No Habitat	-	-	No Habitat
LWS_SH1_180	428430	557279	28.84	No Habitat	-	-	No Habitat
LWS_SH1_190	428438	557284	28.84	No Habitat	-	-	No Habitat
LWS_SH1_200	428447	557289	28.84	No Habitat	-	-	No Habitat
LWS_SM1_000	419492	563336	26.88	10	38.7	37.6	-11.2%
LWS_SM1_010	419501	563339	26.88	10	33.8	33.1	-6.8%
LWS_SM1_020	419511	563342	26.88	10	31.8	31.4	-4.9%
LWS_SM1_030	419520	563345	26.88	10	30.8	30.4	-3.9%
LWS_SM1_040	419530	563348	26.88	10	30.1	29.8	-3.2%
LWS_SM1_050	419540	563351	26.88	10	29.7	29.4	-2.7%
LWS_SM1_060	419549	563354	26.88	10	29.3	29.1	-2.4%
LWS_SM1_070	419559	563357	26.88	10	29.1	28.9	-2.2%
LWS_SM1_080	419568	563360	26.88	10	28.9	28.7	-1.9%
LWS_SM1_090	419578	563363	26.88	10	28.7	28.5	-1.7%
LWS_SM1_100	419587	563366	26.88	10	28.6	28.4	-1.6%
LWS_SM1_110	419597	563369	26.88	10	28.4	28.3	-1.4%
LWS_SM1_120	419606	563372	26.88	10	28.4	28.2	-1.4%
LWS_SM1_130	419616	563376	26.88	10	28.3	28.1	-1.3%
LWS_SM1_140	419625	563379	26.88	10	28.2	28.1	-1.2%
LWS_SM1_150	419635	563382	26.88	10	28.1	28.0	-1.1%
LWS_SM1_160	419644	563385	26.88	10	28.1	28.0	-1.0%
LWS_SM1_170	419654	563388	26.88	10	28.0	27.9	-1.0%
LWS_SM1_180	419663	563391	26.88	10	28.0	27.9	-0.9%

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_SM1_190	419673	563394	26.88	10	27.9	27.8	-0.9%
LWS_SM1_200	419682	563397	26.88	10	27.9	27.8	-0.8%
LWS_SM2_000	419807	562875	26.88	10	35.0	34.8	-2.7%
LWS_SM2_010	419814	562881	26.88	10	31.8	31.7	-1.5%
LWS_SM2_020	419822	562888	26.88	10	30.7	30.6	-1.1%
LWS_SM2_030	419829	562895	26.88	10	30.1	30.0	-1.0%
LWS_SM2_040	419836	562901	26.88	10	29.7	29.6	-0.8%
LWS_SM2_050	419844	562908	26.88	10	29.4	29.3	-0.7%
LWS_SM2_060	419851	562915	26.88	10	29.2	29.1	-0.6%
LWS_SM2_070	419859	562922	26.88	10	29.0	28.9	-0.6%
LWS_SM2_080	419866	562928	26.88	10	28.9	28.8	-0.5%
LWS_SM2_090	419873	562935	26.88	10	28.7	28.7	-0.5%
LWS_SM2_100	419881	562942	26.88	10	28.6	28.6	-0.5%
LWS_SM2_110	419888	562948	26.88	10	28.5	28.5	-0.5%
LWS_SM2_120	419896	562955	26.88	10	28.4	28.4	-0.4%
LWS_SM2_130	419903	562962	26.88	10	28.4	28.3	-0.4%
LWS_SM2_140	419911	562968	26.88	10	28.3	28.3	-0.4%
LWS_SM2_150	419918	562975	26.88	10	28.2	28.2	-0.4%
LWS_SM2_160	419925	562982	26.88	10	28.2	28.1	-0.4%
LWS_SM2_170	419933	562989	26.88	10	28.1	28.1	-0.4%
LWS_SM2_180	419940	562995	26.88	10	28.1	28.0	-0.4%
LWS_SM2_190	419948	563002	26.88	10	28.0	28.0	-0.4%
LWS_SM2_200	419955	563009	26.88	10	28.0	27.9	-0.4%
LWS_SM3_000	419891	562826	26.88	10	33.8	33.7	-1.1%
LWS_SM3_010	419890	562836	26.88	10	31.3	31.2	-0.8%
LWS_SM3_020	419888	562846	26.88	10	30.4	30.4	-0.7%
LWS_SM3_030	419887	562856	26.88	10	30.0	29.9	-0.6%
LWS_SM3_040	419886	562866	26.88	10	29.7	29.6	-0.6%

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_SM3_050	419884	562876	26.88	10	29.4	29.4	-0.6%
LWS_SM3_060	419883	562885	26.88	10	29.3	29.2	-0.6%
LWS_SM3_070	419882	562895	26.88	10	29.1	29.1	-0.6%
LWS_SM3_080	419880	562905	26.88	10	29.0	28.9	-0.5%
LWS_SM3_090	419879	562915	26.88	10	28.9	28.8	-0.5%
LWS_SM3_100	419877	562925	26.88	10	28.8	28.7	-0.5%
LWS_SM3_110	419876	562935	26.88	10	28.7	28.7	-0.5%
LWS_SM3_120	419875	562945	26.88	10	28.6	28.6	-0.5%
LWS_SM3_130	419873	562955	26.88	10	28.6	28.5	-0.5%
LWS_SM3_140	419872	562965	26.88	10	28.5	28.4	-0.5%
LWS_SM3_150	419870	562975	26.88	10	28.4	28.4	-0.5%
LWS_SM3_160	419869	562984	26.88	10	28.4	28.3	-0.5%
LWS_SM3_170	419868	562994	26.88	10	28.3	28.3	-0.5%
LWS_SM3_180	419866	563004	26.88	10	28.3	28.2	-0.5%
LWS_SM3_190	419865	563014	26.88	10	28.2	28.2	-0.6%
LWS_SM3_200	419864	563024	26.88	10	28.2	28.1	-0.5%
LWS_SN1_000	420187	564578	27.86	10	28.4	28.4	-0.1%
LWS_SN1_010	420181	564586	27.86	10	28.4	28.4	-0.1%
LWS_SN1_020	420175	564594	27.86	10	28.4	28.3	-0.1%
LWS_SN1_030	420170	564602	27.86	10	28.4	28.3	-0.1%
LWS_SN1_040	420164	564611	27.86	10	28.4	28.3	-0.1%
LWS_SN1_050	420158	564619	27.86	10	28.4	28.3	-0.2%
LWS_SN1_060	420152	564627	27.86	10	28.4	28.3	-0.2%
LWS_SN1_070	420147	564635	27.86	10	28.4	28.3	-0.2%
LWS_SN1_080	420141	564643	27.86	10	28.4	28.3	-0.2%
LWS_SN1_090	420135	564651	27.86	10	28.4	28.3	-0.2%
LWS_SN1_100	420129	564659	27.86	10	28.4	28.3	-0.2%
LWS_SN1_110	420123	564668	27.86	10	28.4	28.3	-0.2%

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_SN1_120	420118	564676	27.86	10	28.4	28.3	-0.2%
LWS_SN1_130	420112	564684	27.86	10	28.4	28.3	-0.2%
LWS_SN1_140	420106	564692	27.86	10	28.4	28.3	-0.2%
LWS_SN1_150	420100	564700	27.86	10	28.4	28.3	-0.2%
LWS_SN1_160	420094	564708	27.86	10	28.4	28.4	-0.2%
LWS_SN1_170	420089	564716	27.86	10	28.4	28.3	-0.2%
LWS_SN1_180	420083	564725	27.86	10	28.4	28.4	-0.2%
LWS_SN1_190	420077	564733	27.86	10	28.4	28.4	-0.2%
LWS_SN1_200	420071	564741	27.86	10	28.4	28.4	-0.2%
LWS_TC1_000	426511	557854	28.84	10	32.7	32.5	-2.1%
LWS_TC1_010	426521	557857	28.84	10	31.7	31.6	-1.1%
LWS_TC1_020	426530	557860	28.84	10	31.2	31.1	-0.7%
LWS_TC1_030	426540	557863	28.84	10	30.9	30.9	-0.5%
LWS_TC1_040	426549	557866	28.84	10	30.7	30.7	-0.3%
LWS_TC1_050	426559	557869	28.84	10	30.6	30.6	-0.2%
LWS_TC1_060	426568	557872	28.84	10	30.5	30.5	-0.2%
LWS_TC1_070	426578	557875	28.84	10	30.4	30.4	-0.1%
LWS_TC1_080	426587	557878	28.84	10	30.3	30.3	-0.1%
LWS_TC1_090	426597	557881	28.84	10	30.3	30.3	0.0%
LWS_TC1_100	426606	557884	28.84	10	30.2	30.2	0.0%
LWS_TC1_110	426616	557887	28.84	10	30.2	30.2	0.0%
LWS_TC1_120	426625	557890	28.84	10	30.1	30.1	0.0%
LWS_TC1_130	426635	557893	28.84	10	30.1	30.1	0.0%
LWS_TC1_140	426644	557896	28.84	10	30.1	30.1	0.0%
LWS_TC1_150	426654	557899	28.84	10	30.0	30.0	0.0%
LWS_TC1_160	426663	557902	28.84	10	30.0	30.0	0.0%
LWS_TC1_170	426673	557905	28.84	10	30.0	30.0	0.0%
LWS_TC1_180	426682	557908	28.84	10	30.0	30.0	0.0%

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_TC1_190	426692	557912	28.84	10	29.9	29.9	0.1%
LWS_TC1_200	426701	557915	28.84	10	29.9	29.9	0.0%
LWS_VW1_000	428690	554185	26.04	10	27.2	27.2	0.0%
LWS_VW1_010	428688	554195	26.04	10	27.0	27.0	0.0%
LWS_VW1_020	428686	554205	26.04	10	27.0	27.0	0.0%
LWS_VW1_030	428685	554215	26.04	10	26.9	26.9	0.0%
LWS_VW1_040	428683	554225	26.04	10	26.9	26.9	0.0%
LWS_VW1_050	428682	554235	26.04	10	26.9	26.9	0.0%
LWS_VW1_060	428680	554244	26.04	10	26.9	26.9	0.0%
LWS_VW1_070	428678	554254	26.04	10	26.9	26.9	0.0%
LWS_VW1_080	428677	554264	26.04	10	26.9	26.9	0.0%
LWS_VW1_090	428675	554274	26.04	10	26.9	26.9	0.0%
LWS_VW1_100	428674	554284	26.04	10	26.9	26.9	0.0%
LWS_VW1_110	428672	554294	26.04	10	27.0	27.0	0.0%
LWS_VW1_120	428671	554304	26.04	10	27.0	27.0	0.0%
LWS_VW1_130	428669	554314	26.04	10	27.0	27.0	0.0%
LWS_VW1_140	428667	554323	26.04	10	27.0	27.0	0.0%
LWS_VW1_150	428666	554333	26.04	10	27.0	27.0	0.0%
LWS_VW1_160	428664	554343	26.04	10	27.0	27.0	0.0%
LWS_VW1_170	428663	554353	26.04	10	27.0	27.0	0.0%
LWS_VW1_180	428661	554363	26.04	10	27.0	27.0	0.0%
LWS_VW1_190	428659	554373	26.04	10	27.0	27.0	0.0%
LWS_VW1_200	428658	554383	26.04	10	27.0	27.0	0.0%
LWS_VW2_000	428508	554174	26.04	10	29.1	29.1	0.0%
LWS_VW2_010	428509	554184	26.04	10	29.3	29.3	0.0%
LWS_VW2_020	428510	554194	26.04	10	29.5	29.5	0.0%
LWS_VW2_030	428511	554204	26.04	10	29.5	29.5	0.0%
LWS_VW2_040	428512	554214	26.04	10	29.3	29.3	0.0%

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_VW2_050	428513	554224	26.04	10	29.3	29.3	0.0%
LWS_VW2_060	428513	554234	26.04	10	29.2	29.2	0.0%
LWS_VW2_070	428514	554244	26.04	10	29.1	29.1	0.0%
LWS_VW2_080	428515	554254	26.04	10	29.0	29.0	0.0%
LWS_VW2_090	428516	554264	26.04	10	28.9	28.9	0.0%
LWS_VW2_100	428517	554274	26.04	10	28.9	28.9	0.0%
LWS_VW2_110	428518	554283	26.04	10	28.8	28.8	0.0%
LWS_VW2_120	428519	554293	26.04	10	28.8	28.8	0.0%
LWS_VW2_130	428520	554303	26.04	10	28.7	28.7	0.0%
LWS_VW2_140	428521	554313	26.04	10	28.6	28.6	0.1%
LWS_VW2_150	428522	554323	26.04	10	28.4	28.4	0.1%
LWS_VW2_160	428523	554333	26.04	10	28.1	28.1	0.1%
LWS_VW2_170	428523	554343	26.04	10	27.9	27.9	0.1%
LWS_VW2_180	428524	554353	26.04	10	27.8	27.8	0.1%
LWS_VW2_190	428525	554363	26.04	10	27.8	27.8	0.1%
LWS_VW2_200	428526	554373	26.04	10	27.7	27.7	0.0%
LWS_VW3_000	428513	554272	26.04	10	29.3	29.3	0.0%
LWS_VW3_010	428523	554273	26.04	10	28.4	28.4	0.0%
LWS_VW3_020	428533	554273	26.04	10	28.0	28.0	0.0%
LWS_VW3_030	428543	554274	26.04	10	27.8	27.8	0.0%
LWS_VW3_040	428553	554275	26.04	10	27.6	27.6	0.0%
LWS_VW3_050	428563	554276	26.04	10	27.5	27.5	0.0%
LWS_VW3_060	428573	554277	26.04	10	27.4	27.4	0.0%
LWS_VW3_070	428583	554277	26.04	10	27.4	27.4	0.0%
LWS_VW3_080	428593	554278	26.04	10	27.3	27.3	0.0%
LWS_VW3_090	428603	554279	26.04	10	27.2	27.2	0.0%
LWS_VW3_100	428613	554280	26.04	10	27.2	27.2	0.0%
LWS_VW3_110	428623	554281	26.04	10	27.1	27.1	0.0%

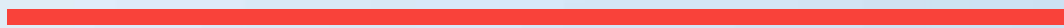
Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
LWS_VW3_120	428633	554281	26.04	10	27.1	27.1	0.0%
LWS_VW3_130	428643	554282	26.04	10	27.0	27.0	0.0%
LWS_VW3_140	428653	554283	26.04	10	27.0	27.0	0.0%
LWS_VW3_150	428663	554284	26.04	10	27.0	27.0	0.0%
LWS_VW3_160	428673	554285	26.04	10	26.9	27.0	0.0%
LWS_VW3_170	428683	554285	26.04	10	26.9	26.9	0.0%
LWS_VW3_180	428693	554286	26.04	10	26.9	26.9	0.0%
LWS_VW3_190	428703	554287	26.04	10	26.9	26.9	0.0%
LWS_VW3_200	428713	554288	26.04	10	26.9	26.9	0.0%
SSI_SP1_000	419649	562967	26.88	No Habitat	-	-	No Habitat
SSI_SP1_010	419640	562962	26.88	No Habitat	-	-	No Habitat
SSI_SP1_020	419631	562958	26.88	No Habitat	-	-	No Habitat
SSI_SP1_030	419622	562954	26.88	No Habitat	-	-	No Habitat
SSI_SP1_040	419613	562949	26.88	No Habitat	-	-	No Habitat
SSI_SP1_050	419604	562945	26.88	No Habitat	-	-	No Habitat
SSI_SP1_060	419595	562941	26.88	No Habitat	-	-	No Habitat
SSI_SP1_070	419586	562937	26.88	No Habitat	-	-	No Habitat
SSI_SP1_080	419577	562932	26.88	No Habitat	-	-	No Habitat
SSI_SP1_090	419568	562928	26.88	No Habitat	-	-	No Habitat
SSI_SP1_100	419559	562924	26.88	No Habitat	-	-	No Habitat
SSI_SP1_110	419550	562919	26.88	No Habitat	-	-	No Habitat
SSI_SP1_120	419541	562915	26.88	No Habitat	-	-	No Habitat
SSI_SP1_130	419532	562911	26.88	No Habitat	-	-	No Habitat
SSI_SP1_140	419523	562906	26.88	No Habitat	-	-	No Habitat
SSI_SP1_150	419514	562902	26.88	No Habitat	-	-	No Habitat
SSI_SP1_160	419505	562898	26.88	No Habitat	-	-	No Habitat
SSI_SP1_170	419496	562894	26.88	No Habitat	-	-	No Habitat
SSI_SP1_180	419487	562889	26.88	No Habitat	-	-	No Habitat

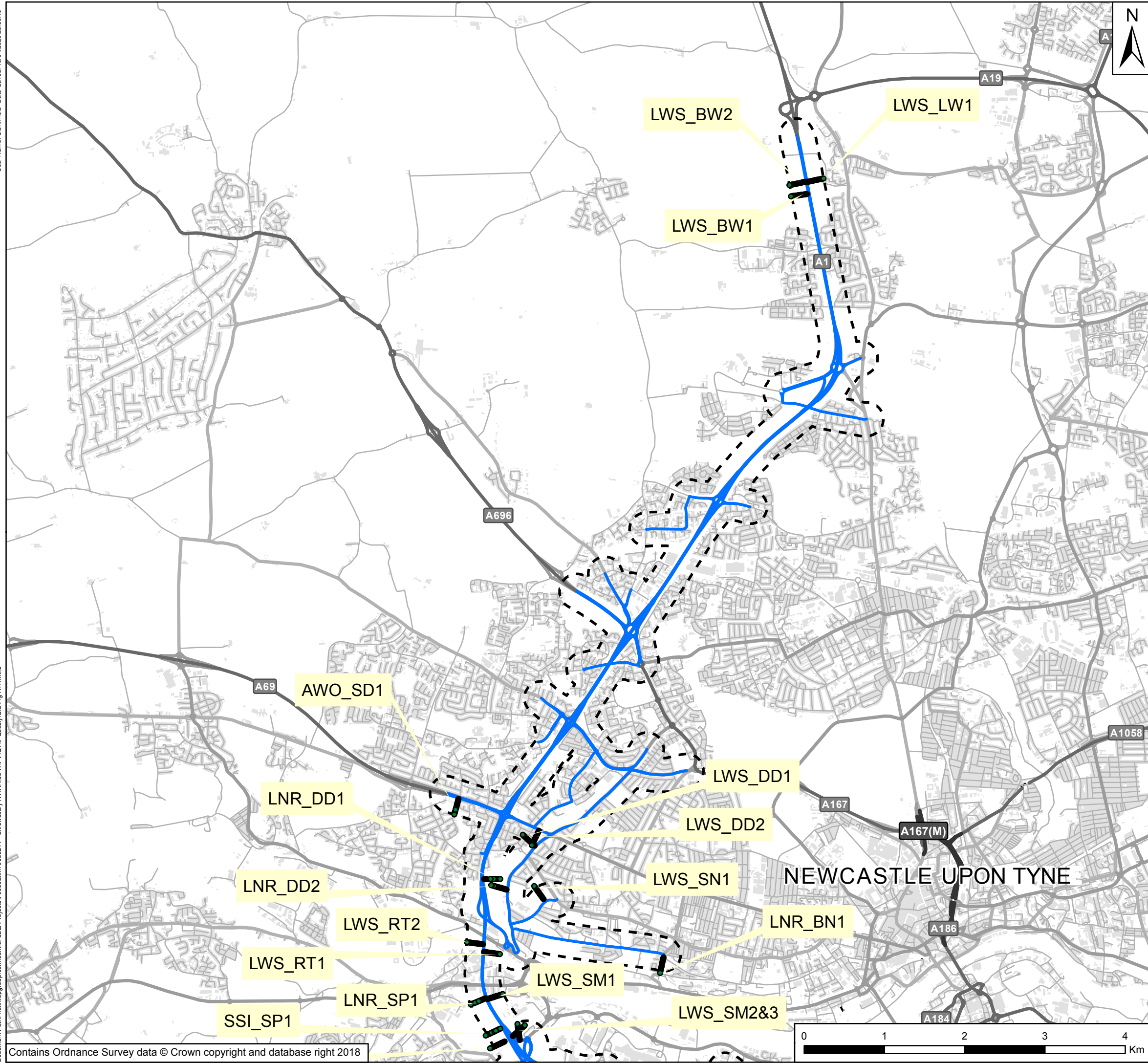
Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
SSI_SP1_190	419478	562885	26.88	No Habitat	-	-	No Habitat
SSI_SP1_200	419469	562881	26.88	No Habitat	-	-	No Habitat
SSI_SP2_000	419702	562806	26.88	No Habitat	-	-	No Habitat
SSI_SP2_010	419693	562802	26.88	No Habitat	-	-	No Habitat
SSI_SP2_020	419684	562797	26.88	No Habitat	-	-	No Habitat
SSI_SP2_030	419675	562793	26.88	No Habitat	-	-	No Habitat
SSI_SP2_040	419666	562789	26.88	No Habitat	-	-	No Habitat
SSI_SP2_050	419657	562785	26.88	No Habitat	-	-	No Habitat
SSI_SP2_060	419648	562780	26.88	No Habitat	-	-	No Habitat
SSI_SP2_070	419639	562776	26.88	No Habitat	-	-	No Habitat
SSI_SP2_080	419630	562772	26.88	No Habitat	-	-	No Habitat
SSI_SP2_090	419621	562767	26.88	No Habitat	-	-	No Habitat
SSI_SP2_100	419612	562763	26.88	No Habitat	-	-	No Habitat
SSI_SP2_110	419603	562759	26.88	No Habitat	-	-	No Habitat
SSI_SP2_120	419594	562755	26.88	No Habitat	-	-	No Habitat
SSI_SP2_130	419585	562750	26.88	No Habitat	-	-	No Habitat
SSI_SP2_140	419576	562746	26.88	No Habitat	-	-	No Habitat
SSI_SP2_150	419567	562742	26.88	No Habitat	-	-	No Habitat
SSI_SP2_160	419558	562737	26.88	No Habitat	-	-	No Habitat
SSI_SP2_170	419549	562733	26.88	No Habitat	-	-	No Habitat
SSI_SP2_180	419540	562729	26.88	No Habitat	-	-	No Habitat
SSI_SP2_190	419531	562725	26.88	No Habitat	-	-	No Habitat
SSI_SP2_200	419522	562720	26.88	No Habitat	-	-	No Habitat
10052	422601	569599	29.40	10	30.73	30.72	-0.1%
132242	421921	569391	29.40	10	29.95	29.95	0.0%
1683	419745	562225	26.88	10	27.06	27.05	0.0%
21404	421651	569359	29.40	10	29.77	29.77	0.0%
23358	425301	557909	28.84	10	29.13	29.13	0.0%

Receptor Name	X	Y	APIS Long Deposition	Critical Load	DM Nitrogen Deposition	DS Nitrogen Deposition	% change
2053	424021	559909	25.76	10	28.29	28.29	0.1%
2056	424041	559829	25.76	10	28.02	28.03	0.1%
132241	421932	569416	29.40	10	29.95	29.94	-0.1%
21048	421601	569359	29.40	10	29.76	29.75	0.0%
23360	425111	557910	28.84	10	29.07	29.08	0.0%
132243	421717	569398	29.40	10	29.79	29.79	0.0%
1651	419613	562476	26.88	10	27.14	27.13	0.0%

Appendix B

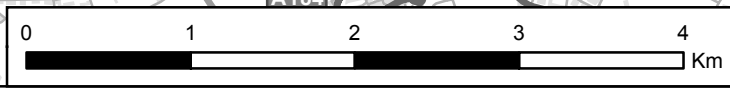
ECOLOGICAL TRANSECTS

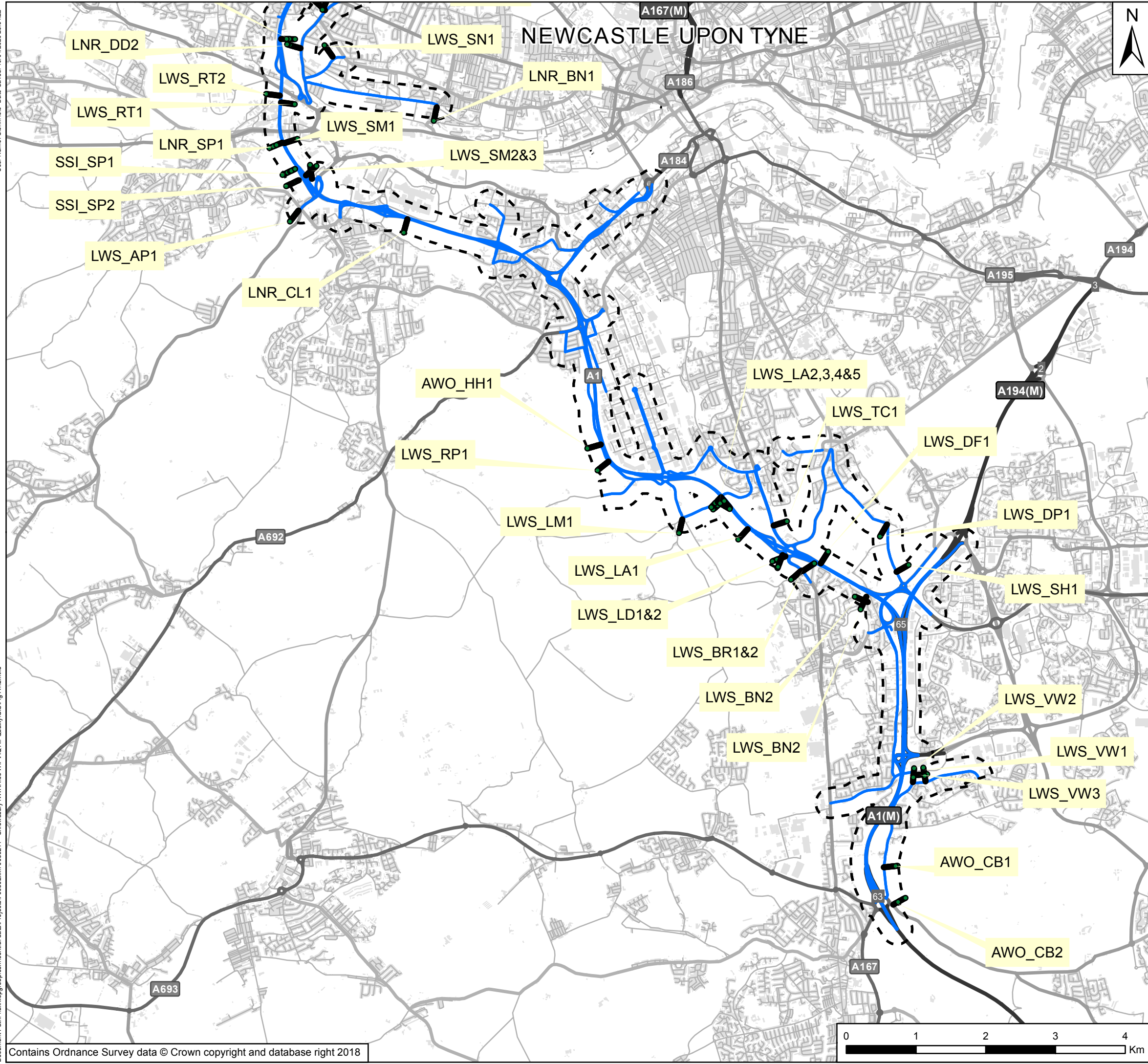




- Key**
- Ecological Transects
 - - - ARN_210_Buff
 - Affected Road Network

P01	19 Apr 2020	First Issue	YW	TSH	BTJ
Rev	Date	Description	By	Chk'd	App'd
Suitability		First Issue			Status
					S0
PINS Reference Number		TR010031			
Client					
Project Title					
A1 Birtley to Coal House Improvement Scheme					
Drawing Title					
Figure A1.1 Ecological Transects					
Scale	1:46,020	Drawn	TSH	Checked	CS
Original Size	A3	Date	19 Apr 2020	Date	19 Apr 2020
Drawing Number	HE PIN	Originator	WSP	Volume	2
		Approved	BTJ	Date	19 Apr 2020
		Authorised	NJA	Date	19 Apr 2020
		Revision	P01		
		PW Stage Code			
Section	Type	ID	Direction	Type	Role
					Number

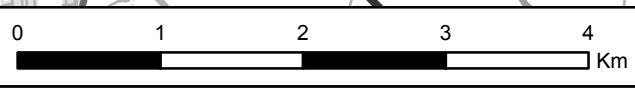




Key

- Ecological Transects
- - - ARN_210_Buff
- Affected Road Network

P01	19 Apr 2020	First Issue	YW	TSH	BTJ
Rev	Date	Description	By	Chk'd	App'd
Suitability		First Issue			Status
					S0
PINS Reference Number		TR010031			
Client					
Project Title		A1 Birtley to Coal House Improvement Scheme			
Drawing Title		<p>Figure A1.2 Ecological Transects</p>			
Scale	1:52,969	Drawn	TSH	Checked	CS
Original Size	A3	Date	19 Apr 2020	Date	19 Apr 2020
Approved	BTJ	Authorised	NJA	Date	19 Apr 2020
Originator	WSP	Volume	2	Revision	P01
Drawing Number		HE PIN		PW Stage Code	
Section	Type	ID	Direction	Type	Role
					Number



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