



The Sizewell C Project

Deed of Obligation, Schedule 12, Annex W:
Main Development Site Refreshed Noise Assessment

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1. Introduction

- 1.1 AECOM has been appointed by NNB Generation Company (SZC) Limited ('SZC Co.') to identify residential buildings that will qualify for the Noise Mitigation Scheme (NMS) (as set out in Annex W of the **Deed of Obligation**¹) as a result of the construction and operation of the Sizewell C nuclear power station project ('the project'). The project includes the following elements:
- The main development site (MDS) comprising land required for the Sizewell C nuclear power station, offshore works and land used temporarily to support construction, including a temporary accommodation campus and caravan site for the construction workforce. This includes the land east of Eastlands Industrial Estate (LEEIE).
 - Two temporary park and ride sites; one at Darsham (the 'northern park and ride'), and one at Wickham Market (the 'southern park and ride'), to reduce the amount of traffic generated by the construction workforce on local roads and through local villages.
 - A permanent road to bypass Stratford St Andrew and Farnham (referred to as the 'two village bypass' or TVB), to alleviate traffic and mitigate road safety effects on the A12 through the two villages.
 - A permanent road linking the A12 to west of the Sizewell C main development site (referred to as the 'Sizewell link road' or SLR), to alleviate traffic from the B1122 through Theberton and Middleton Moor.
 - Permanent highway improvements at the junction of the A12 and B1122 east of Yoxford (referred to as the 'Yoxford roundabout') and other road junctions to accommodate Sizewell C construction traffic and mitigate road safety effects.
 - A temporary freight management facility at Seven Hills on land to the south-east of the A12/A14 junction to manage the flow of freight to the main development site.
 - A temporary extension of the existing Saxmundham to Leiston branch line into the main development site (referred to as 'the green rail route' or GRR) and other permanent rail improvements on the Saxmundham to Leiston branch line, to transport freight by rail to remove large numbers of lorries from the regional and local road network.
- 1.2 In addition, there will be temporary intensification of the use of the existing East Suffolk Line railway between Westerfield Junction, just north of Ipswich and the junction with the Saxmundham to Leiston branch line, just north of Saxmundham, and the Saxmundham to Leiston branch line itself.
- 1.3 The project received development consent on 20 July 2022 under Statutory Instrument 2022 No 853. 'The Sizewell C (Nuclear Generating Station) Order 2022'.
- 1.4 Separate reports have been produced regarding qualification for the NMS due to the construction and operational use of each of the various elements set out in 1.1 and 1.2 above, except for the operational use of the power station itself, since the **Development Consent Order (DCO)** (Requirement 40: Operational Noise) precludes the operation of the power station at noise levels that could lead to properties being eligible for noise insulation.
- 1.5 This report focuses on noise insulation qualification for the NMS due to the construction works at the MDS, including:
- The construction of the main station platform.
 - The preparation and use of the temporary construction area (TCA) to the north of the main power station platform, including the construction and operation of the new rail terminal to be used once the GRR is complete.

¹ *The Sizewell C Project 8.17/10.4 Deed of Obligation Engrossment Version – Annexures - Part 3 of 3, Book 8 Revision: 9.0, Book 10 Revision: 1.0*, PINS Reference Number: EN010012, <https://infrastructure.planninginspectorate.gov.uk/wp-content/ipc/uploads/projects/EN010012/EN010012-008256-SZC%20Co.%20-%20Final%20signed%20and%20dated%20s.106.%20final%20s.106%20Explanatory%20Memorandum%20and%20final%20Confirmation%20and%20Compliance%20Document%2017.pdf>

- The preparation and use of the ancillary construction area (ACA), also known as LEEIE, including the preparation and use of a temporary rail unloading facility to be used prior to the completion of the GRR.
- The construction of an accommodation campus on the western edge of the TCA.
- The construction and use of the beach landing facility (BLF).

1.6 Works covered by the assessment in this report are anticipated to start in 2024.

2. Noise Mitigation Scheme Criteria

2.1 The criteria for noise insulation and temporary rehousing are set out in the NMS which is detailed in Annex W of the **Deed of Obligation**, as follows:

2.2 Table 1.1 of the NMS sets out the criteria for eligibility for insulation for construction noise, which are:

“A Property will be eligible for an offer of insulation where the Property is predicted to experience the following when measured 1 m from the external façade of any Eligible Room:

(1) a construction noise level which exceeds the higher of either:

(a) the noise insulation trigger levels set out in Table 1.3 for any Associated Development site or in Table 1.4 for the main development site for the corresponding times of the day; or

(b) the existing Baseline Ambient Sound Level for the corresponding times of the day; and

(2) an exceedance of (1) where:

(a) the exceedance is predicted to occur on 10 or more days of working in any 15 consecutive days or on a total number of days exceeding 40 in any 6 consecutive months; or

(b) where the exceedance occurs only on a Saturday or Sunday, it is predicted to occur on 2 weekends, or part thereof, in any 15 consecutive days or on 6 weekends, or part thereof, in any 6 consecutive months.”

2.3 Table 1.2 of the NMS sets out the criteria for temporary rehousing due to construction noise, which are:

“An occupier of a Property will be eligible for an offer of temporary rehousing where a Property is predicted to experience:

(1) a construction noise level which exceeds the higher of either:

(a) the temporary rehousing trigger levels set out in Table 1.5 for the corresponding times of the day; or

(b) the existing Baseline Ambient Sound Level by 10 dB for the corresponding times of the day; and

(2) an exceedance of (1) where:

(a) the exceedance is predicted to occur on 10 or more days of working in any 15 consecutive days or on a total number of days exceeding 40 in any 6 consecutive months; or

(b) where the exceedance occurs only on a Saturday or Sunday, it is predicted to occur on 2 weekends, or part thereof, in any 15 consecutive days or on 6 weekends, or part thereof, in any 6 consecutive months.”

2.4 The numerical values associated with these criteria are contained in Tables 1.3, 1.4 and 1.5 of the NMS. Since this report does not consider the construction of the associated development sites, the values in Table 1.3 are not relevant.

2.5 Table 1 repeats the NMS insulation trigger levels for construction noise for the MDS, which are contained in Table 1.4 of the NMS.

Table 1. Construction noise insulation trigger levels for the MDS (Table 1.4 in the NMS)

Day/Time	Averaging Period, T	Noise Insulation Trigger Level dB L _{Aeq,T}
Day: Weekdays, 0700-1900, Saturday, 0700-1300	12 hr (weekdays) 6 hr (Saturdays)	65
Evenings and weekends: Weekdays 1900-2300, Saturdays 1300-2300, Sundays 0700 - 2300	4 hr (weekdays) 1 hr (Saturdays) 1 hr (Sundays)	55
Every day 2300 - 0700	1 hr	45

2.6 Table 2 repeats the temporary rehousing trigger levels for construction noise, which are contained in Table 1.5 of the NMS.

Table 2. Construction noise temporary rehousing trigger levels – all sites (Table 1.5 in the NMS)

Day	Time	Averaging Period, T	Temporary Rehousing Trigger Level dB L _{Aeq,T}
Monday to Friday	07:00 to 08:00	1 hr	80
	08:00 to 18:00	10 hr	85
	18:00 to 19:00	1 hr	80
	19:00 to 23:00	4 hr	75
	23:00 to 07:00	1 hr	65
Saturday	07:00 to 08:00	1 hr	80
	08:00 to 13:00	5 hr	85
	13:00 to 14:00	1 hr	80
	14:00 to 23:00	1 hr	75
	23:00 to 07:00	1 hr	65
Sunday and Public Holidays	07:00 to 23:00	1 hr	75
	23:00 to 07:00	1 hr	65

2.7 The trigger levels relate to 'façade' noise levels i.e. 1 metre from the external façade.

2.8 The working times for the MDS construction site are Monday to Sunday:

- Double day and/or single shift between 07:00 and 23:00 hrs
- Night shift between 23:00 and 07:00 hrs

2.9 The NMS trigger levels at which offers of noise insulation or temporary rehousing are to be made are the higher of the absolute levels set out in Tables 1 and 2 or a level set relative to the baseline ambient sound levels at a receptor, where the existing ambient sound levels already exceed the absolute thresholds.

2.10 For the MDS, the baseline ambient sound levels are known to be below the absolute thresholds for the majority of receptors, with a small number in the vicinity of Leiston being the only exceptions. This understanding is based on the baseline noise monitoring completed for the **Environmental Statement (ES)**².

² The Sizewell C Project, 6.3 Volume 2 Main Development Site, Chapter 11 Noise and Vibration Appendix 11A Noise and Vibration Baseline Report, Revision 1.0, PINS Reference Number: EN010012, https://infrastructure.planninginspectorate.gov.uk/wp-content/ipc/uploads/projects/EN010012/EN010012-001824-SZC_Bk6_ES_V2_Ch11_Noise_and_Vibration_Appx11A_Noise_and_Vibration_Baseline_Report.pdf

- 2.11 Taking a conservative approach, the absolute trigger levels set out in Table 1 and Table 2 have been adopted for all receptors, even for the small number where the ambient sound level is understood to be higher than the trigger levels.
- 2.12 For the sake of clarity, the daytime shift(s) span a 16 hour period that covers both the 'daytime' and 'evening' periods defined in the NMS, so the relevant noise insulation trigger level will be the most stringent level over that period. The applicable trigger level from Table 1 is therefore 55 dB, either measured as a 4 hour L_{Aeq} during the week or a 1 hour L_{Aeq} on Saturdays and Sundays.
- 2.13 Following the same principle, the relevant temporary rehousing trigger level from Table 2 is 75 dB, again, measured as a 4 hour L_{Aeq} during the week or a 1 hour L_{Aeq} on Saturdays and Sundays.
- 2.14 For the night-time, the noise insulation trigger level is 45 dB $L_{Aeq,1h}$ and the temporary rehousing trigger level is 65 dB $L_{Aeq,1h}$.

3. Methodology

Construction activities and plant

- 3.1 The construction of the Sizewell C Project will span 9-12 years and involve many different contractors as it moves from early civils to main civils to mechanical, electrical and heating to commissioning phases. In most cases, final choice of contractor will not be confirmed until the project has reached financial close. Therefore, the construction information available to update the calculations of likely construction noise levels is largely unchanged from that set out in the **ES**^{3&4}.
- 3.2 The calculations use the same SoundPLAN model as was used during the preparation of the **ES**, updated to version 8.2 of the software. For the majority of activities no changes from the **ES** have been made to the choice of plant, or the location and the modelled extent of the activity. However, updated information from SZC Co. has been adopted, where available; for example, on the borrow pit work locations, and on the night-time works.
- 3.3 The list of activities and plant used in the updated model is provided in Appendix A.
- 3.4 The assessed phasing of the works is the same as was adopted in the **ES**:
 - Phase 1 – initial site stripping and earthworks, primarily at the TCA
 - Phase 2 – construction of site infrastructure and earthworks, primarily at the TCA
 - Phase 3 – primarily works to construct the power station itself. As per the **ES**, Phase 4: fit out and commissioning of the power station, has been assumed to be comparable to Phase 3 and therefore is not assessed separately
 - Phase 5 – reinstatement of the TCA
 - Phase 6 – all works at the ACA. The construction of the ACA will occur at the same time as Phase 1 and the reinstatement at the same time as Phase 5. The early years operation of the ACA includes the delivery of materials by train and the later years operation of the ACA excludes this aspect as deliveries by train will transfer to the railhead in the TCA, which becomes operational during Phase 2.
- 3.5 The timings of Phases 1 to 5 are equivalent to, and broadly aligned with, the five construction stages defined more widely by SZC Co. Phase 6 has been modelled as a separate phase as it is geographically discrete, however it will run concurrently with the five project phases as described above.

³ *The Sizewell C Project, 6.3 Volume 2 Main Development Site, Chapter 11 Noise and Vibration, Revision 1.0*, PINS Reference Number: EN010012, https://infrastructure.planninginspectorate.gov.uk/wp-content/ipc/uploads/projects/EN010012/EN010012-001822-SZC_Bk6_ES_V2_Ch11_Noise_and_Vibration.pdf

⁴ *The Sizewell C Project, 6.3 Volume 2 Main Development Site, Chapter 11 Noise and Vibration Appendix 11B Construction Noise Assessment, Revision 1.0*, PINS Reference Number: https://infrastructure.planninginspectorate.gov.uk/wp-content/ipc/uploads/projects/EN010012/EN010012-001825-SZC_Bk6_ES_V2_Ch11_Noise_and_Vibration_Appx11B_Construction_Noise_Assessment.pdf

- 3.6 Each of these phases contain 'sub-phases'. The notation used is "Px_y", where 'x' indicates which of the six phases are referenced, and 'y' indicates the sub-phase, for example P1_01A for 'Phase 1, sub-phase 01A'. The phases and sub-phases are set out in Appendix A.
- 3.7 Based on the latest information from SZC Co., the following activities are understood to occur at night (23:00-07:00):
- P1_11B – cut off wall construction in Phase 1
 - P1_26 – operation of the temporary concrete batching plant in Phase 1
 - P1-25 and P2-25 – operation of the desalination plant in Phase 1 (initial location) and Phase 2 (final location)
 - P2_16 and P3_49 – railhead operation in the TCA in Phase 2 and Phase 3
 - P2_50 and P3_50 – operation of the concrete batching plant and slurry plant in the TCA in Phase 2 and Phase 3
 - P3_43 outfall construction in Phase 3
- 3.8 No other activities are understood to occur at night.

Ground heights

- 3.9 The noise model contains a 3-dimensional representation of both the existing and proposed ground across the study area, as appropriate for the phase of construction works. The ground data is based on 2020 2 m Digital Terrain Model (DTM) LIDAR data downloaded from the Defra website⁵ in December 2021, which has been filtered using the standard settings in the SoundPLAN software to minimise the size of the dataset.
- 3.10 The proposed ground height information remains as was used in the calculations for the **ES**, except where minor modifications have been made to retain consistency across the ground model.
- 3.11 The existing ground heights have been used for Phase 1 works at the TCA and for the initial site stripping/levelling works at the ACA in Phase 6.
- 3.12 Three versions of the proposed or future ground heights have been used:
- Phase 2 works at the TCA following the initial site stripping and earthworks (without the main stockpile), and Phase 6 works at the ACA following the initial site stripping/levelling works and the creation of the stockpile in the north-west corner of the ACA.
 - Phase 3 works at the TCA including the main stockpile, and Phase 6 works at the ACA following the initial site stripping/levelling works and the creation of the stockpile in the north-west corner of the ACA.
 - Phase 3 works at the power station site following completion of the base slab and substructure to create a level platform for the power station, Phase 3 works at the TCA including the main stockpile, and Phase 6 works at the ACA following the initial site stripping/levelling works and the creation of the stockpile in the north-west corner of the ACA.
- 3.13 For the reinstatement works at both the TCA (Phase 5) and at the ACA (at the end of Phase 6), initial works to break up the surface have used the Phase 2 ground heights in the TCA and ACA. The remainder of the reinstatement works use the existing ground heights in these areas as the ground is returned to its original state.

Ordnance Survey datasets

- 3.14 The noise model contains a 3-dimensional representation of residential and non-residential buildings in the surrounding area, and a representation of the existing ground type (acoustically hard such as concrete or water, or acoustically soft such as vegetation). These data are based on OS MasterMap (including the

⁵ <https://environment.data.gov.uk/DefraDataDownload/?Mode=survey> downloaded 16/12/21

Building Height Attribute dataset) and OS AddressBase Plus data provided by Dalcour Maclaren in December 2021.

- 3.15 Some areas of the TCA, main power station site and ACA will be surfaced with hardstanding whilst in use, and that is assumed to be acoustically hard; the approximate extents of these areas have been included in the updated noise modelling. In the TCA this hard ground is assumed to be in place for the final activities in Phase 2 (from activity P2-14Ci onwards, i.e. from the construction of the accommodation campus buildings) and for Phase 3. In the ACA the areas of hard ground are assumed to be in place for the railhead construction (P6-99C and P6-99D) and the operation of the ACA. For the main power station site hard ground is assumed to be in place for the majority of Phase 3 works (P3-36 onwards following completion of the base slab and substructure in P3-35). For the reinstatement works in Phase 5 (TCA) and the end of Phase 6 (ACA) the existing ground type is assumed in the TCA and ACA.
- 3.16 The calculations have been undertaken at façade receptor positions to provide consistency with the façade trigger levels in the NMS. The receptors considered in the assessment include locations comparable to those set out in the **ES**, as well as additional receptor positions so that the ultimate extent of NMS eligibility is established. The receptor locations are shown on Figure 1.
- 3.17 Predicting construction noise levels at every façade of every property is not a reasonable or proportionate approach. Therefore, in some locations a single receptor position is used to represent a small number of adjacent properties. In general a single façade facing the works has been selected, and professional judgement has been applied conservatively to identify which facades at a property are likely to qualify.

Noise barriers / bunds

- 3.18 The **ES** committed to three noise barriers/bunds as part of the embedded mitigation for the main development site:
- B4 – 5 metre high barrier along the north-east edge of the TCA.
 - B6 – 3 metre high bund in the north-east corner of the ACA.
 - B7 – 3 metre high bund and 2 metre barrier (total height 5 metres) in the south-east corner of the ACA.
- 3.19 A further five barriers were identified as ‘optional’ in the **ES**. These additional barriers have all been included in the updated construction noise assessment, as analysis of the initial results indicated that they would provide effective mitigation for nearby receptors:
- B1 – 5 metre high barrier to the north of Abbey Cottage and Old Abbey Farm / Care Home
 - B2 – 3 metre high barrier around the Roundhouse and along the lane east of Potters Farm
 - B3 – 3 metre high barrier south of Plantation Cottages and Abbey Farm
 - B5 – 3 metre high barrier in the north-west corner of the ACA
 - B8 – 5 metre high barrier in the south-west corner of the ACA
- 3.20 All the proposed noise barriers/bunds are illustrated on Figure 1. These barriers are assumed to be present for all works after the initial vegetation clearance works (P1_01A) at the start of Phase 1.

Prediction method

- 3.21 The calculation method for this noise assessment was that contained in ISO 9613-2:1996⁶, as was the case for the MDS construction noise calculations in the **ES**.
- 3.22 Given the relatively large distances between the closest receptors and some of the construction works, ISO 9613 is considered to be an appropriate methodology and the Association of Noise Consultants’

⁶ International Organization for Standardization (1996) *ISO 9613-2:1996 ‘Acoustics - Attenuation of sound during propagation outdoors — Part 2: General method of calculation’*

Construction Noise good practice guide⁷ advises that a method such as ISO 9613 may be more appropriate than BS 5228-1:2009+A1:2014⁸ over longer distances, as is the case for the MDS.

Result processing

- 3.23 For some activities only a small number of plant are required in a specific location, therefore the predicted construction noise levels are taken directly from the model outputs and an on-time correction applied, if required, to account for the part of the assessment period that the activity occurs for.
- 3.24 For a lot of activities the works occur across a defined, but large working area, and for these the noise model contains multiple noise sources across the whole area. In this scenario the predicted construction noise levels are determined in one of two ways, and the model outputs adjusted for the number of items of plant and the on-time for the activity:
- The majority of activities will progress across the working area over time, therefore the predicted construction noise level is based on an estimate of the worst-case ten days. To estimate the worst-case ten days, an assumption has been made of the extent of the working area that would be covered in the ten days during which the works are closest to each receptor. This is based on the assumptions made in the **ES** modelling on the rate at which each activity progresses, updated where more specific information is available.
 - For a small number of activities the plant will operate across the whole working area for the duration of the activity. For these, the construction noise levels will be reasonably consistent on a day-to-day basis and the predicted construction noise level is based on the average noise level from all of the sources. For example, activities at the stockpiles and some works at the ACA where plant constructing the various sections of the ACA will be operating at the same time.

Assumptions and limitations

- 3.25 As set out in 3.1, in most cases, final choice of contractor will not be confirmed until the project has reached financial close. Therefore, to enable the NMS to be rolled out in a timely manner the construction information utilised to update the calculations of likely construction noise levels is largely unchanged from that set out in the **ES**.
- 3.26 For example, the assumptions that informed the **ES** on the plant used for each activity, including the assumed sound power level, number of plant and on-time, and the geographical location and extent of each activity, have all been retained. Limited changes have been made by AECOM, for example, the location/extent of the borrow pits and works to be undertaken at night, have now been confirmed by SZC Co. and therefore have been adjusted accordingly.
- 3.27 As with all construction noise assessments, the predicted noise levels can only ever be an estimate of the actual noise levels due to the large number of variables for which assumptions must be made, including the number, type and on-time of each item of plant, and the location and extent of the activity. Estimating the noise level that is likely to be exceeded for ten days also includes some inherent uncertainty as it is dependent on assumptions on the duration of the activity, the rate of progress across the working area and the manner in which the works will progress.
- 3.28 Eligibility for insulation under the NMS is based on the predicted construction noise level exceeding the relevant trigger levels. However, a conservative approach has been taken so for the purposes of this refreshed noise assessment, eligibility is considered to also occur where the predicted construction noise levels are equal to the relevant trigger level. The results have been rounded to the nearest whole decibel, i.e. 0.5 dB is rounded up. This is considered a reasonable approach given the inherent uncertainties in the calculation process.

⁷ Association of Noise Consultants (ANC) (March 2021) *CONSTRUCTION NOISE - A good practice guide to the preparation, submission and management of Section 61 consents. Technical Note. Version 1.0*

⁸ British Standards Institution (2014) *BS 5228-1:2009+A1:2014 'Code of practice for noise and vibration control on construction and open sites - Noise'*

4. Results

Construction noise levels

- 4.1 A summary of the predicted construction noise levels is provided in Table 3, with a full breakdown of the results for each activity in each phase provided in Appendix B. Results for the night-time period are also provided in Appendix B, however, no summary is included in the main body of the report, as none of the assessed receptors are predicted to be eligible under the NMS for night-time activities.
- 4.2 Predicted construction noise levels that meet or exceed the weekday evening, Saturday afternoon/evening and Sunday daytime trigger level of 55 dB $L_{Aeq,T}$, are highlighted in yellow, and levels which meet or exceed the weekday daytime and Saturday morning trigger level of 65 dB $L_{Aeq,T}$ are highlighted in orange.
- 4.3 The summary in Table 3 is for the following key daytime activities/phases:
- P1_01B – stripping / site levelling in Phase 1, including the earthworks to create the proposed ground heights across the TCA.
 - P1 and P6_99A – the total noise levels due to all the remaining Phase 1 activities occurring after P1_01B, combined with the stripping/site levelling at the ACA. Combining the remaining Phase 1 activities is considered to be a robust approach as they are unlikely to occur simultaneously, and the likelihood of the worst case ten days occurring simultaneously for multiple activities is even more unlikely. All of the works to construct the ACA and the initial operation of the ACA (P6_99A to P6_99D and P6_99F) could overlap with the Phase 1 works however the summary table reports the worst-case combination.
 - P2 and P6_99G – the total noise levels due to all the activities in Phase 2, combined with the long term operation of the ACA. With the exception of the initial stripping / site levelling ongoing in Phase 2, which is comparable to the stripping / site levelling in Phase 1, and the later Phase 2 works at the accommodation campus which must follow the initial earthworks. Combining the Phase 2 activities is considered to be a robust approach as they are unlikely to occur simultaneously, and the likelihood of the worst case ten days occurring simultaneously for multiple activities is even more unlikely.
 - P3 and P6_99G – the total noise levels due to all the activities in Phase 3, combined with the long term operation of the ACA. Combining the Phase 3 activities is considered to be a robust approach as they are unlikely to occur simultaneously, and the likelihood of the worst case ten days occurring simultaneously for multiple activities is even more unlikely.
 - P5_01B and P6_99H – the initial stripping phase of the reinstatement works at the TCA combined with the reinstatement of the ACA.
- 4.4 These have been chosen to cover all of the phases of works, and include the activities/phases that are the key drivers of identifying properties that qualify for noise insulation. A robust, conservative approach has been adopted by combining multiple activities within a phase, which is unlikely to happen in practice. Furthermore, it is even more unlikely that the worst-case ten days for multiple activities will occur simultaneously.

Table 3. Summary of construction noise results – daytime/evening ($L_{Aeq,T}$ façade)

Receptor	P1_01B	P1 and P6_99A	P2 and P6_99G	P3 and P6_99G	P5_01B and P6_99H
R1 Eastbridge	42	49	48	44	41
R2 Plantation Cottages	48	57	53	48	46
R3 Lower Abbey Farm	44	56	51	48	43

Receptor	P1_01B	P1 and P6_99A	P2 and P6_99G	P3 and P6_99G	P5_01B and P6_99H
R4 Ashwood Cottages	56	62	62	56	55
R5 The Round House	57	67	59	49	55
R6 Potters Farmhouse	52	55	55	48	51
R7 Birchwood Farm	49	55	55	46	48
R8 Potter's Street	46	52	52	44	45
R9 Potter's Street	48	54	54	44	47
R10 Abbey Cottage	61	68	67	46	59
R11 Pro Corda school*	-	-	-	-	-
R12 Old Abbey Residential Home	60	66	65	49	58
R13 The Common	52	57	56	44	51
R14 Common Farm	45	64	52	50	64
R15 The Common	33	65	48	51	55
R16 The Common	38	68	49	54	45
R17 Rosery Cottages	34	48	45	44	38
R18 Sizewell Gap	32	46	46	49	37
R19 Grimsey's Lane	36	50	47	47	51
R20 Sizewell Gap Road	34	54	49	48	58
R21 Crown Lodge	36	58	54	54	61
R22 Abbey Road	57	52	51	41	55
R23 Abbey Road	61	52	51	42	59
R24 Abbey Road	56	52	50	41	54
R25 Abbey Road	55	52	50	43	54
R26 Abbey Road	54	50	49	41	52
R27 Abbey Road	54	50	49	43	52
R28 Abbey Road	54	52	49	43	52
R29 Brick Kiln Farm	50	53	50	44	52
R30 Carr Avenue	39	55	46	45	57
R31 Carr Avenue	30	54	44	46	56

Receptor	P1_01B	P1 and P6_99A	P2 and P6_99G	P3 and P6_99G	P5_01B and P6_99H
R32 Carr Avenue	38	54	46	47	56
R33 Carr Avenue	30	52	43	44	54
R34 Carr Avenue	34	52	43	45	54
R35 Valley Road	42	53	47	45	54
R36 Valley Road	41	53	47	44	54
R37 Valley Road	34	52	44	44	54
R38 Valley Road	32	51	43	44	53
R39 Valley Road	40	51	46	45	52
R40 King George's Ave	39	58	51	51	60
R41 Heath View	37	56	52	52	59
R42 Heath View	37	53	49	49	55
R43 Heath View	37	53	49	49	54
R44 Heath View	37	53	49	49	54
R45 Heath View	38	55	50	50	57
R46 Heath View	37	53	49	49	54
R47 Heath View	38	54	49	50	56
R48 King George's Ave	38	54	49	49	56
R49 King George's Ave	38	53	48	48	54
R50 King George's Ave	38	52	47	47	52

*The residential accommodation at R11 Leiston Abbey is not covered by this assessment as this qualifies automatically for the NMS, on equality grounds, as set out in Schedule 12 of the Deed of Obligation⁹.

- 4.5 The results indicate that there is a likelihood of the noise insulation criteria being met or exceeded at several of the receptors closest to the TCA and the ACA. Figure 2 illustrates all the identified properties and façades.
- 4.6 Outside of Leiston, the identified locations consist of individual or small groups of properties. Larger groups of properties are identified towards the northern end of Abbey Road, heading north out of Leiston, and in the vicinity of Valley Road and St George's Avenue close to the ACA in Leiston.
- 4.7 No exceedances of the temporary rehousing criteria are predicted.

⁹ The Sizewell C Project 8.17/ Completed Deed of Obligation – 10.4 Scanned Copy Part 1 of 6, EN010012, October 2021 (page 112) <https://infrastructure.planninginspectorate.gov.uk/wp-content/ipc/uploads/projects/EN010012/EN010012-008239-SZC%20Co.%20-%20Final%20signed%20and%20dated%20s.106,%20final%20s.106%20Explanatory%20Memorandum%20and%20final%20Confirmation%20and%20Compliance%20Document%207.pdf#page=112>

5. Conclusion

- 5.1 The construction noise modelling for the MDS completed for the **ES/DCO** has been updated to include the latest OS datasets and available information on the works. The methodology for processing the results has also been adapted to estimate the likely noise level exceeded for ten or more days.
- 5.2 The results indicate that there is a likelihood of the noise insulation criteria being met or exceeded at several of the closest receptors to the TCA and the ACA. Outside of Leiston the identified locations consist of individual or small groups of properties. Larger groups of properties are identified towards the northern end of Abbey Road, heading north out of Leiston, and in the vicinity of Valley Road and St George's Avenue close to the ACA in Leiston.
- 5.3 No exceedances of the temporary rehousing criteria are predicted.
- 5.4 The NMS is intended to be flexible, so the list of properties identified as eligible as a result of this Refreshed Noise Assessment is not necessarily exhaustive. SZC Co. may review the list of eligible properties in the future if there is a change to construction methods or programme or as a result of noise monitoring information. East Suffolk Council or Suffolk County Council may also require that SZC Co. carry out a review of a specific property or properties for the reasons above or as a result of a complaint. Offers of noise insulation may then be made to additional properties but the commitment to offer a Scheme Agreement three months ahead of the works which give rise to eligibility for the scheme would not apply.

Appendix A Construction information

Table 4. Summary of construction information

Ref	Activity	Plant	% on-time	No.	L _{WA} dB
P1_01A	Felling	Chainsaw	40	6	114.6
		HGVs	60	1	105.5
		Tractor	60	2	108.7
		Wheeled excavator	50	2	111.0
		Wheeled payloader	60	1	109.0
		Wood shredder diesel	70	1	114.0
P1_01B	Stripping/levelling	Diesel generator mobile lighting	50	1	93.4
		Articulated dump truck	20	1	105.7
		Boxscraper	80	1	114.5
		Bulldozer	80	1	113.3
		Tracked excavator	80	1	108.0
		Vibratory roller	60	1	110.5
P1_01C	Water Management Zone	Articulated dump truck	20	3	105.7
		Tracked excavator	80	1	108.0
		Diesel generator mobile lighting	50	2	93.4
P1_02A	Borrow Pit - excavation	Articulated dump truck	20	4	105.7
		Tracked excavator	80	1	108.0
		Diesel generator mobile lighting	100	4	93.4
		Rigid dump truck CAT777	100	48/hr	113.7
P1_02B	Stockpile Main	Articulated dump truck	20	2	105.7
		Bulldozer	80	2	113.3
		Diesel generator mobile lighting	50	4	93.4
		Vibratory roller	50	2	110.5
P1_03AB	Earthworks & Cut off wall compounds	Articulated dump truck	20	2	105.7
		Bulldozer	80	1	113.3
		Tracked excavator	80	1	108.0
		Tracked mobile crane	20	1	100.6
		Vibratory roller	20	1	110.5
P1_04A	Piling Platform	Articulated dump truck	20	2	105.7
		Bulldozer	80	1	113.3
		Vibratory roller	20	1	110.5
P1_04B	Piling	Compressor	100	4	102.9
		Diesel generator	50	4	97.3
		Diesel generator	100	4	97.3
		Tracked excavator	80	2	108.0
		Angle grinder	20	2	108.6
		Angle grinder	10	2	108.6
		Piling rig	60	2	95.1
P1_05C	Culvert & Embankment construction	Articulated dump truck	20	8	105.7
		Tracked mobile crane	50	1	100.6
		Tracked excavator	80	2	108.0
		Bulldozer	80	2	113.3
		Diesel generator mobile lighting	100	4	93.4
		Vibratory roller	40	2	110.5
P1_06A	Haul Road Construction	Bulldozer	80	2	113.3
		Tracked excavator	80	2	108.0
		Grader	80	2	114.5
		Diesel generator mobile lighting	100	8	93.4
		Vibratory roller	40	2	110.5
P1_06B	Main Access Road Construction	Articulated dump truck	80	4	105.7
		Backhoe mounted hydraulic breaker	20	2	115.9

Ref	Activity	Plant	% on-time	No.	L _{WA} dB
		Bulldozer	80	2	113.3
		Tracked excavator	80	2	108.0
		Grader	80	2	114.5
		Wheeled payloader	40	1	109.0
		Diesel generator mobile lighting	100	8	93.4
		Asphalt paver (+ tipper lorry)	50	1	104.2
		Tipper lorry	20	4	107.3
		Vibratory roller	40	4	110.5
		Compressor	30	1	102.9
P1_07A	Main Site Office	Articulated dump truck	20	2	105.7
		Large lorry concrete mixer	100	48/hr	105.4
		Truck mounted concrete pump	40	1	108.0
		Compressor	60	1	102.9
		Tracked excavator	80	2	108.0
		Tracked mobile crane	50	2	100.6
		Diesel generator mobile lighting	100	6	93.4
		Crawler mounted piling rig	40	1	108.4
		Angle grinder	70	1	108.6
		Poker vibrator	20	1	106.4
P1_07B	Entrance Plaza	Backhoe mounted hydraulic breaker	20	2	115.9
		Bulldozer	80	2	113.3
		Compressor	30	3	102.9
		Tracked excavator	80	2	108.0
		Grader	40	2	114.5
		Diesel generator mobile lighting	100	8	93.4
		Asphalt paver (+ tipper lorry)	50	1	104.2
		Tipper lorry	20	4	107.3
		Vibratory roller	30	4	110.5
P1_08A	Concrete Batching Plant Hardstanding	Articulated dump truck	30	2	105.7
		Tracked excavator	70	1	108.0
		Asphalt paver (+ tipper lorry)	50	1	104.2
		Tipper lorry	40	4	107.3
		Vibratory roller	30	2	110.5
P1_08B	Concrete Batching Plant construction	Compressor	50	3	102.9
		Diesel generator	80	4	97.3
		Tracked mobile crane	30	2	100.6
		Wheeled payloader	70	2	109.0
P1_09A	Stockpiling 9A	Articulated dump truck	20	2	105.7
		Bulldozer	80	2	113.3
		Tracked excavator	80	2	108.0
P1_10A	Sea Defences - Remove existing	Articulated dump truck	20	8	105.7
		Bulldozer	80	1	113.3
		Tracked excavator	80	2	108.0
		Diesel generator mobile lighting	100	4	93.4
P1_10Ci	Sea Defences - Ground Improvement	Truck mounted concrete pump	40	2	108.0
		Tracked excavator	80	2	108.0
		Diesel generator mobile lighting	100	4	93.4
		Crawler mounted piling rig	40	2	108.4
P1_10Cii	Sea Defences - Peat Treatment under	Angle grinder	40	4	108.6
		Compressor	50	4	102.9
		Diesel generator	50	4	97.3
		Diesel generator mobile lighting	100	4	93.4
		Crawler mounted piling rig	40	2	108.4
P1_10D	Sea Defences - Construction	Articulated dump truck	20	8	105.7
		Bulldozer	80	2	113.3
		Tracked excavator	80	2	108.0

Ref	Activity	Plant	% on-time	No.	L _{WA} dB
		Diesel generator mobile lighting	100	4	93.4
		Vibratory roller	30	2	110.5
P1_11A	Cut off Wall - Platform	Articulated dump truck	20	8	105.7
		Bulldozer	80	2	113.3
		Tracked excavator	80	2	108.0
		Diesel generator mobile lighting	100	4	93.4
		Vibratory roller	30	2	110.5
P1_11B	Cut off Wall - Construction	Compressor	30	8	102.9
		Large lorry concrete mixer	100	25/hr	105.4
		Lorry	20	4	111.3
		Tracked mobile crane	50	3	100.6
		Diesel generator	100	8	97.3
		Hydrofraise rig	70	3	106.4
		Diesel generator mobile lighting	100	12	93.4
P1_12A	Marine infrastructure – Piling	Compressor	30	3	102.9
		Large lorry concrete mixer	60	3	105.4
		Crawler mounted piling rig	70	3	108.4
		Mini piling rig	50	3	104.2
P1_12B	Marine infrastructure- Superstructure	Large lorry concrete mixer	100	48/hr	105.4
		Truck mounted concrete pump	60	1	108.0
		Tracked mobile crane	70	1	100.6
		Compressor	30	4	102.9
		Diesel generator	100	4	97.3
		Diesel generator mobile lighting	100	4	93.4
		Poker vibrator	50	1	106.4
P1_19	Cable Trench Excavation	Tracked excavator	70	1	108.0
P1_21	Flood Mitigation Zones	Articulated dump truck	20	3	105.7
		Tracked excavator	80	1	108
		Articulated dump truck	100	24/hr	108.7
P1_24	Desalination plant construction - Drilling	Directional drill	100	1	106.6
P1_25	Desalination plant operation - Phase 1	Electric water pump	100	10	95.7
		Diesel generator for submersible pump	100	2	89.5
P1_26	Temp concrete batching plant	Concrete batching plant	100	1	108.0
		Tracked excavator (loading)	50	2	113.0
P2_01B	Stripping/levelling	Diesel generator mobile lighting	100	1	93.4
		Articulated dump truck	30	1	105.7
		Boxscrapers	50	1	114.5
		Bulldozer	70	1	113.3
		Tracked excavator	70	1	108.0
		Vibratory roller	50	1	110.5
P2_02A	Borrow Pit - excavation	Articulated dump truck	30	2	105.7
		Tracked excavator	70	1	108.0
		Diesel generator mobile lighting	100	4	93.4
P2_02B	Stockpile Main	Articulated dump truck	100	1	105.7
		Bulldozer	100	1	113.3
		Diesel generator mobile lighting	100	1	93.4
P2_06B	Main Access Road	Articulated dump truck	30	4	105.7
		Bulldozer	70	2	113.3
		Tracked excavator	70	2	108.0
		Grader	50	2	114.5
		Wheeled payload	70	2	109.0
		Diesel generator mobile lighting	100	8	93.4
		Asphalt paver (+ tipper lorry)	50	2	104.2
		Tipper lorry	40	4	107.3
		Vibratory roller	50	4	110.5

Ref	Activity	Plant	% on-time	No.	L _{WA} dB	
P2_07B	Entrance Plaza	Compressor for mini piling	50	4	102.9	
		Backhoe mounted hydraulic breaker	20	2	115.9	
		Bulldozer	70	2	113.3	
		Compressor for mini piling	50	3	102.9	
		Tracked excavator	70	2	108.0	
		Grader	50	1	114.5	
		Diesel generator mobile lighting	100	8	93.4	
		Asphalt paver (+ tipper lorry)	50	1	104.2	
		Tipper lorry	40	4	107.3	
		Vibratory roller	50	4	110.5	
P2_07C	Main Site Office - Superstructure	Compressor	50	8	102.9	
		Diesel generator	50	4	97.3	
		Tracked mobile crane	50	2	100.6	
		Diesel generator mobile lighting	100	6	93.4	
		Wheeled payloador	70	2	109.0	
P2_09A	Borrow Pit – stockpiling	Articulated dump truck	30	2	105.7	
		Bulldozer	50	1	113.3	
		Tracked excavator	70	1	108.0	
P2_12B	Marine infrastructure - Superstructure	Large lorry concrete mixer	100	48/hr	105.4	
		Truck mounted concrete pump	30	2	108.0	
		Tracked mobile crane	50	2	100.6	
		Compressor	50	2	102.9	
		Diesel generator	50	2	97.3	
		Diesel generator mobile lighting	100	4	93.4	
		Poker vibrator	30	2	106.4	
P2_13A	Contractor's Compounds - Hardstanding	Bulldozer	70	2	113.3	
		Tracked excavator	70	2	108.0	
		Grader	50	2	114.5	
		Wheeled payloador	70	2	109	
		Diesel generator mobile lighting	100	8	93.4	
		Vibratory roller	50	4	110.5	
P2_14Ai	Accommodation campus - Groundworks	Articulated dump truck	30	2	105.7	
		Compressor	50	2	102.9	
		Tracked excavator	70	2	108.0	
		Angle grinder	20	4	108.6	
		Tracked mobile crane	50	2	100.6	
		Diesel generator mobile lighting	100	8	93.4	
		Poker vibrator	50	1	106.4	
P2_14Bi	Accommodation campus - Car Parks	Bulldozer	70	1	113.3	
		Compressor	50	2	102.9	
		Tracked excavator	70	2	108.0	
		Grader	50	1	114.5	
		Diesel generator mobile lighting	100	8	93.4	
		Asphalt paver (+ tipper lorry)	50	1	104.2	
		Tipper lorry	40	4	107.3	
		Vibratory roller	50	2	110.5	
		Wheeled excavator	70	2	111.0	
P2_14Ci	Accommodation campus - Buildings	Compressor	50	8	102.9	
		Diesel generator	50	4	97.3	
		Tracked mobile crane	50	2	100.6	
		Diesel generator mobile lighting	100	6	93.4	
		Wheeled payloador	70	2	109.0	
P2_15A	Within Cut-off Wall - Excavation	20T Tracked excavator	70	2	106.8	
		Directional drill	50	3	106.6	
		60T Tracked excavator	70	2	111.5	

Ref	Activity	Plant	% on-time	No.	L _{WA} dB
		Bulldozer	70	2	113.3
		Compressor	50	6	102.9
		Diesel generator	50	6	97.3
		Diesel generator mobile lighting	100	18	93.4
P2_15B	Within Cut-off Wall - Haul Route	Rigid dump truck CAT777	100	1/min	113.7
P2_16	Railhead – Operation	Tracked excavator (loading)	100	1	113.0
		Loco full power (shunting)	100	1/day & 8/night	117.0
		Loco idling	50	1	103.1
		Loco full power (GRR)	100	1/day & 8/night	117.0
P2_25	Desal operation Phase 1	Electric water pump	100	10	95.7
		Diesel generator for submersible pump	100	2	89.5
P2_29	BLF temporary	Conveyor	100	2	82.4/m
		Articulated dump truck	100	24/hr	105.7
		Tracked excavator (loading)	100	3	113.0
		Tug Boat	100	1	100.4
		Conveyor drive unit	100	2	104.9
P2_30	Main Works Yard	Compressor	50	2	102.9
		Diesel generator mobile lighting	100	4	93.4
		Tracked mobile crane	50	2	100.6
		Telescopic handler	70	2	106.6
		Portal crane	70	1	102.5
P2_50	Concrete Batching & Slurry Treatment Plants	Conveyor	50	1	82.4/m
		Concrete batching plant	100	1	108.0
		Slurry treatment plant	100	1	108.0
		Tracked excavator (loading)	50	4	108.0
P3_25	Desal Phase 2	Electric water pump	100	10	95.7
P3_29	BLF permanent	Conveyor	100	1	104.9
		Articulated dump truck	100	24/hr	105.7
		Tracked excavator (loading)	100	3	113.0
		Tug boat	100	1	100.4
P3_30	Main Works Yard	Compressor	40	12	102.9
		Diesel generator mobile lighting	100	12	93.4
		Tracked mobile crane	40	2	100.6
		Telescopic handler	50	4	106.6
		Portal crane	40	2	102.5
P3_31	CRF Pipes	20T Tracked excavator	70	2	106.8
		Bulldozer	70	1	113.3
		Compressor	50	4	102.9
		Tracked mobile crane	60	2	100.6
		Diesel generator mobile lighting	100	14	93.4
P3_32	Galleries	20T Tracked excavator	70	1	106.8
		Bulldozer	70	1	113.3
		Compressor	30	4	102.9
		Truck mounted concrete pump	60	1	108.0
		Poker vibrator	60	2	106.4
		Tracked mobile crane	100	14	100.6
		Diesel generator mobile lighting	70	1	93.4
P3_33	CRF Backfill	Truck mounted concrete pump	40	2	108.0
		Poker vibrator	40	2	106.4
		Compressor	40	4	102.9
		Diesel generator mobile lighting	100	6	93.4
P3_34	CRF Secondary Backfill	Compressor	30	4	102.9
		20T Tracked excavator	70	1	106.8

Ref	Activity	Plant	% on-time	No.	L _{WA} dB
		Diesel generator mobile lighting	100	6	93.4
		Bulldozer	70	1	113.3
		Tipper lorry	20	4	107.3
		Vibratory roller	50	1	110.5
P3_35	1.0 Base slab & substructure	Articulated dump truck	70	2	105.7
		Compressor	40	6	102.9
		Tracked excavator	70	2	108.0
		Rough terrain crane	60	2	100.5
		Diesel generator mobile lighting	100	6	93.4
		Tower crane	60	2	104.4
		Poker vibrator	40	2	106.4
P3_36	Nuclear Island 1	Truck mounted concrete pump	100	3	108.0
		Tower crane	40	10	104.4
		Articulated dump truck PGR	70	4	105.7
		Compressor	50	10	102.9
		Tracked excavator	70	6	108.0
		Tracked mobile crane	40	4	100.6
		Diesel generator mobile lighting	100	10	93.4
		Poker vibrator	50	5	106.4
P3_37	Nuclear Island 2	Articulated dump truck	70	4	105.7
		Compressor	50	5	102.9
		Truck mounted concrete pump	100	2	108.0
		Tracked excavator	70	3	108.0
		Tracked mobile crane	40	1	100.6
		Diesel generator mobile lighting	100	6	93.4
		Tower crane	40	2	104.4
		Poker vibrator	50	3	106.4
P3_38	Nuclear Island 3	Articulated dump truck	70	2	105.7
		Compressor	50	5	102.9
		Truck mounted concrete pump	100	2	108.0
		Tracked excavator	70	2	108.0
		Tracked mobile crane	40	1	100.6
		Diesel generator mobile lighting	100	6	93.4
		Tower crane	40	2	104.4
		Poker vibrator	50	3	106.4
P3_39	Nuclear Island 4	Articulated dump truck	70	12	105.7
		Backhoe mounted hydraulic breaker	40	6	115.9
		Bulldozer	70	3	113.3
		Compressor	40	12	102.9
		Tracked excavator	70	3	108.0
		Diesel generator mobile lighting	100	18	93.4
		Vibratory roller	40	3	110.5
P3_40	Turbine Hall	Articulated dump truck	70	2	105.7
		Compressor	50	5	102.9
		Truck mounted concrete pump	100	2	108.0
		Tracked excavator	70	2	108.0
		Tracked mobile crane	40	2	100.6
		Diesel generator mobile lighting	100	6	93.4
		Tower crane	40	4	104.4
		Poker vibrator	50	3	106.4
P3_41	SWBP Walls	Compressor	50	5	102.9
		Truck mounted concrete pump	100	2	108
		Tracked excavator	70	1	108
		Tracked mobile crane	40	2	100.6
		Diesel generator mobile lighting	100	6	93.4
		Tower crane	40	4	104.4

Ref	Activity	Plant	% on-time	No.	L _{WA} dB
		Poker vibrator	50	3	106.4
P3_42	Forebay Base	Compressor	50	5	102.9
		Truck mounted concrete pump	100	2	108
		Tracked excavator	70	1	108
		Diesel generator mobile lighting	100	6	93.4
		Poker vibrator	50	3	106.4
P3_43	Outfall Excavation	120T Tracked excavator	60	1	114.5
		Bulldozer	70	2	113.3
		Tracked excavator	60	2	108.0
		Tractor	40	2	108.7
P3_44	Haul Route operation P3	Rigid dump truck CAT777	100	1/min	113.7
P3_45	Stockpile Main	Articulated dump truck	70	1	105.7
		Bulldozer	70	2	113.3
		Diesel generator mobile lighting	100	4	93.4
		Vibratory roller	50	2	110.5
P3_46	CI & BOP primary bulk excavation	120T Tracked excavator	70	2	114.5
		Bulldozer	60	2	113.3
		Tracked excavator	70	2	108.0
		Tractor (towing water bowser)	40	2	110.8
P3_48	Compounds	Tracked mobile crane	50	2	100.6
		Wheeled payloader	60	2	109.0
P3_49	Railhead – Operation	Conveyor	50	1	82.4/m
		Loco full power (shunting)	100	1/day & 8/night	117.0
		Loco idling	50	1	103.1
		Loco full power (GRR)	100	1/day & 8/night	117.0
P3_50	Concrete Batching & Slurry Treatment Plant	Conveyor	50	1	82.4/m
		Concrete batching plant	100	1	108.0
		Slurry treatment plant	100	1	108.0
		Tracked excavator (loading)	50	4	108.0
P5_01B	Reinstatement Stripping	Diesel generator mobile lighting	100	1	93.4
		Articulated dump truck	30	1	105.7
		Boxscraper	80	1	114.5
		Bulldozer	80	1	113.3
		Tracked excavator	80	1	108.0
		Vibratory roller	20	1	110.5
P5_13A	Reinstatement Contractor's Compounds	Bulldozer	80	1	113.3
		Tracked excavator	80	1	108.0
		Grader	80	1	114.5
		Wheeled payloader	80	1	109
		Diesel generator mobile lighting	100	4	93.4
		Vibratory roller	20	2	110.5
		Backhoe mounted hydraulic breaker	60	1	115.9
P5_14Ai	Reinstatement Accom'd'n Campus	Articulated dump truck	30	1	105.7
		Compressor	100	1	102.9
		Tracked excavator	80	1	108.0
		Angle grinder	20	2	108.6
		Tracked mobile crane	50	1	100.6
		Diesel generator mobile lighting	100	4	93.4
		Poker vibrator	20	1	106.4
		Backhoe mounted hydraulic breaker	60	1	115.9
P5_14Bi	Reinstatement Accom'd'n Campus - Car Parks	Bulldozer	80	1	113.3
		Compressor	100	1	102.9

Ref	Activity	Plant	% on-time	No.	L _{WA} dB
		Tracked excavator	80	1	108.0
		Grader	80	1	114.5
		Diesel generator mobile lighting	100	4	93.4
		Asphalt paver (+ tipper lorry)	50	1	104.2
		Tipper lorry	20	2	107.3
		Vibratory roller	20	1	110.5
		Wheeled excavator	80	1	111.0
P6_99A	ACA Initial Site Strip & Level	Articulated dump truck	30	2	105.7
		Bulldozer	70	1	113.3
		Tracked excavator	70	1	108.0
		Vibratory compacter	50	1	110.5
		Grader	70	1	114.5
		Diesel generator mobile lighting	100	2	93.4
P6_99B	ACA Site Preparation	Grader	70	1	114.5
		Diesel generator mobile lighting	100	2	93.4
		Vibratory roller	70	1	110.5
		Compressor	70	1	102.9
		Diesel generator	70	1	97.3
		Angle grinder	10	2	108.6
		Tracked mobile crane	50	1	98.6
		Asphalt paver (+ tipper lorry)	70	1	104.2
		Wheeled payload loader	70	1	109.0
		Tipper lorry	50	2	107.3
		Poker Vibrator	50	1	106.4
		Large lorry concrete mixer	70	2	105.4
P6_99C	ACA Railhead Construction	Backhoe mounted hydraulic breaker	20	1	115.9
		Concrete placing boom	50	1	92.4
		Dozer	70	1	109.0
		Tracked excavator	70	2	108.0
		Diesel generator	70	1	97.3
		Grader	70	1	114.5
		Large lorry concrete mixer	70	2	105.4
		Asphalt paver (+ tipper lorry)	70	1	104.2
		Tipper lorry	50	1	107.3
		Poker vibrator	70	2	106.4
		Tracked crusher	70	1	109.4
P6_99D	ACA Track Upgrade	All sources 114 dB(A)	70	2	114.2
P6_99F	ACA operation (trains)	Loco full power	100	4/day	117.0
		Loco idling	25	2	103.1
		Dump truck (tipping fill)	50	1	107.1
		Wheeled loader (loading hopper)	100	12/hr	102.7
		Tracked excavator	60	1	108.0
		Bus slowly accelerating 10-20km/h	100	4/hr	100.7
		Bus idling engine	25	10	90.8
		Tipper lorry	100	12/hr	107.3
		Wheeled payload loader	60	1	109.0
		Park & Ride car park	400 spaces, 4 movements per 16/h day		99.5
P6_99G	ACA operation (no trains)	Tracked excavator	60	1	108.0
		Bus slowly accelerating 10-20km/h	100	4/hr	100.7
		Bus idling engine	25	10	90.8
		Tipper lorry	100	12/hr	107.3
		Wheeled payload loader	60	1	109.0
		Park & Ride car park	400 spaces, 4 movements per 16/h day		99.5
P6_99H	ACA Reinstatement	Articulated dump truck	30	2	105.7
		Bulldozer	70	1	113.3

Ref	Activity	Plant	% on-time	No.	L _{WA} dB
		Tracked excavator	70	1	108.0
		Vibratory compacter	50	1	110.5
		Grader	70	1	114.5
		Diesel generator mobile lighting	100	2	93.4
		Backhoe mounted hydraulic breaker	50	2	115.9

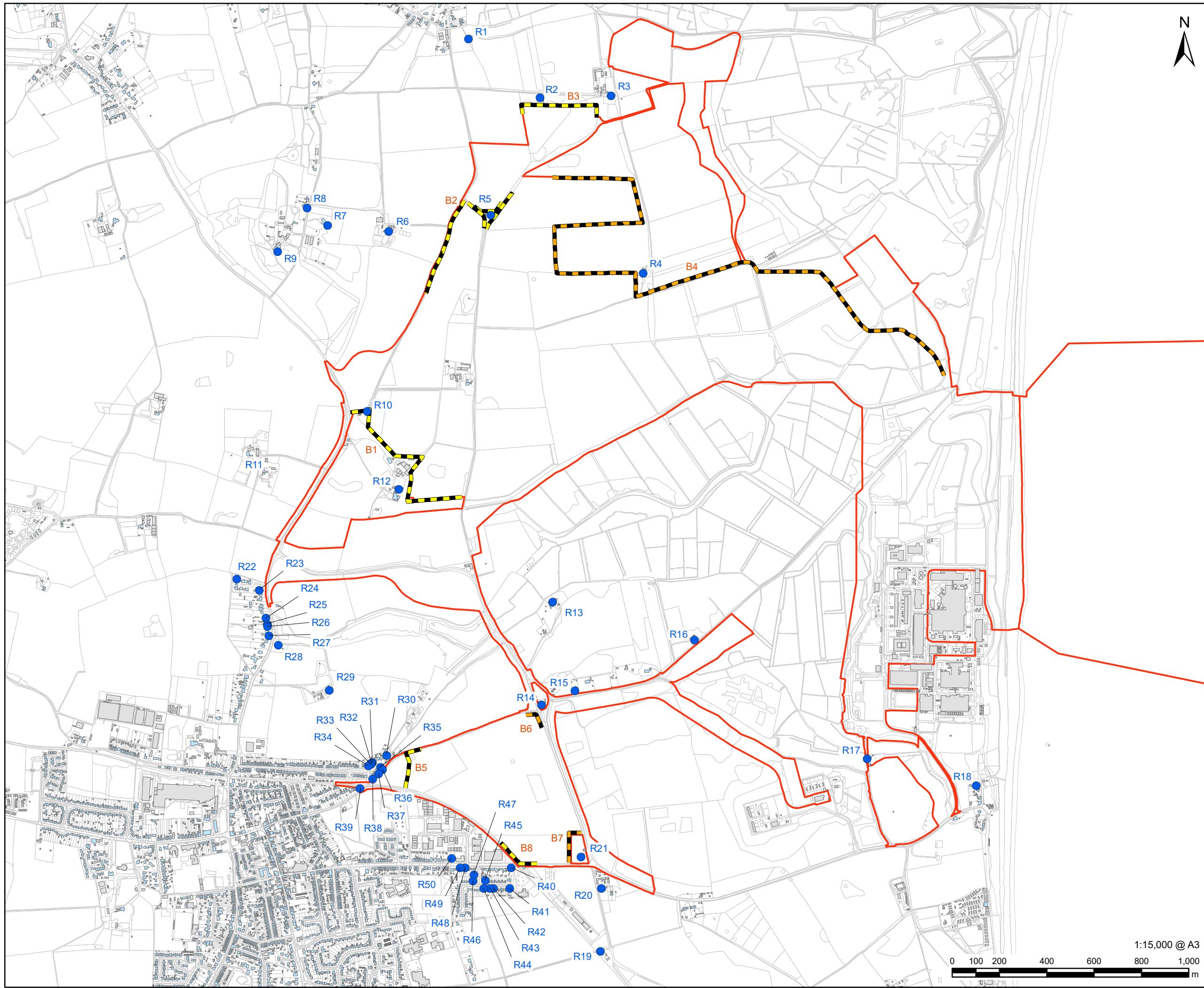
Ref	Activity	weeks	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	R16	R17	R18	R19	R20	R21	R22	R23	R24	R25	R26	R27	R28	R29	R30	R31	R32	R33	R34	R35	R36	R37	R38	R39	R40	R41	R42	R43	R44	R45	R46	R47	R48	R49	R50		
P2_15A	Within Cut-off Wall - Excavation#	-	32	34	35	34	33	32	31	31	31	31	-	35	28	30	40	45	41	42	36	26	29	29	29	30	35	30	32	32	34	33	33	34	32	31	33	30	30	30	32	34	34	34	34	34	34	34	35	34	34	34		
P2_15B	Within Cut-off Wall - Haul Route~	-	42	48	46	53	53	45	41	40	39	40	-	40	37	29	32	37	30	35	31	26	29	33	34	34	34	33	33	33	33	31	28	32	27	27	33	31	29	28	32	32	32	32	32	32	32	32	32	32	32	32		
P2_16	Railhead – Operation~	-	30	32	32	42	34	34	33	31	32	35	-	40	41	30	24	23	27	26	28	25	29	33	34	34	32	32	32	35	30	23	28	23	22	33	31	28	25	31	29	29	29	29	29	30	30	30	30	30	30			
P2_25	Desal operation Phase 1~	-	17	19	21	19	19	18	17	17	17	16	-	20	14	15	23	28	13	13	19	12	14	14	15	15	17	16	17	15	16	18	18	19	16	16	18	16	15	16	17	19	19	19	19	19	19	19	19	19	19			
P2_29	BLF temporary~	-	28	31	32	25	27	29	28	27	27	26	-	30	20	20	31	34	23	41	27	16	19	26	24	26	27	26	27	26	27	28	27	28	26	27	28	26	26	26	27	28	30	29	29	29	29	29	30	29	29	28		
P2_30	Main Works Yard#	-	22	24	25	25	24	23	22	22	21	22	-	26	19	21	30	37	32	27	26	17	19	19	20	20	22	21	22	20	22	24	24	25	22	22	24	21	21	21	23	25	25	25	25	25	25	26	25	25	25			
P2_50	Concrete Batching Plant ~	-	34	37	39	39	36	34	33	32	32	33	-	35	35	26	26	31	29	29	29	24	29	29	30	30	29	29	29	29	27	22	27	21	21	30	28	28	26	29	29	29	29	29	29	29	29	29	29	29	29	29		
P3_25	Desal Phase 2~	-	25	28	30	31	25	25	24	23	23	23	-	27	24	16	16	20	19	20	22	13	18	20	21	21	20	19	20	20	18	17	13	18	11	11	21	18	19	17	20	19	20	20	20	20	20	20	20	20	20			
P3_29	BLF permanent~	-	29	31	32	27	28	29	28	28	28	25	-	31	20	19	28	34	19	38	27	18	19	26	24	25	27	26	26	26	27	27	25	27	26	24	28	25	25	25	26	27	29	28	28	28	29	29	29	29	29	28		
P3_30	Main Works Yard~	-	24	27	28	27	26	25	24	24	24	24	-	28	22	23	32	40	35	29	29	20	22	22	23	22	25	23	25	23	25	27	27	29	28	28	29	26	26	28	25	25	25	27	29	30	30	30	30	30	30	30	30	
P3_31	CRF Pipes#	-	27	29	30	29	29	27	26	26	25	28	-	31	22	24	36	41	34	37	31	20	23	24	25	25	28	25	27	27	29	28	28	29	27	26	29	25	25	25	27	29	30	30	30	30	30	30	30	30	30	30	30	
P3_32	Galleries#	-	27	29	30	29	29	27	26	26	26	28	-	30	23	24	36	41	33	37	31	21	24	24	25	25	28	25	27	28	29	28	28	29	26	26	28	25	25	25	27	29	29	30	30	30	30	30	30	30	30	30	29	30
P3_33	CRF Backfill#	-	24	26	28	27	26	24	24	24	23	25	-	28	21	23	33	37	30	33	28	19	22	22	22	22	25	22	24	25	25	25	25	26	24	24	26	23	23	23	24	26	27	27	27	27	27	27	27	27	27	27	27	27
P3_34	CRF Secondary Backfill#	-	28	30	32	30	30	29	28	28	27	29	-	32	24	25	37	42	35	38	32	21	25	26	26	26	29	27	29	29	30	30	30	30	28	28	30	26	26	26	28	30	31	31	31	31	31	31	31	31	31	31	31	31
P3_35	1.0 Base slab & substructure#	-	25	27	28	26	26	25	24	24	24	25	-	28	21	22	30	36	22	23	26	18	21	22	22	22	24	23	24	22	24	25	25	26	23	23	26	23	22	23	24	27	27	27	27	27	27	27	27	27	27	26	27	
P3_36	Nuclear Island 1~	-	32	34	35	35	33	32	32	32	31	33	-	36	28	30	41	45	31	36	35	26	29	29	29	29	32	30	32	33	33	34	33	34	32	32	34	31	30	31	32	34	35	35	35	35	35	35	35	35	35	35	35	35
P3_37	Nuclear Island 2#	-	29	31	33	32	31	30	29	29	28	31	-	33	25	28	38	43	30	27	33	24	27	26	27	26	29	27	31	30	30	31	31	32	29	29	31	28	28	28	30	32	32	33	33	33	32	33	33	33	32	33	33	
P3_38	Nuclear Island 3#	-	29	31	32	31	30	29	28	28	28	30	-	32	25	27	37	41	29	25	31	23	26	26	26	26	28	27	29	29	30	30	30	31	28	28	30	27	27	27	29	31	32	32	32	32	31	32	32	32	31	32	32	
P3_39	Nuclear Island 4#	-	33	35	37	35	35	34	33	33	32	34	-	37	28	30	42	47	33	29	36	26	29	30	31	30	33	31	34	34	34	35	35	36	33	33	35	32	32	32	34	36	37	37	37	37	36	37	37	37	36	37	37	
P3_40	Turbine Hall#	-	29	31	32	31	30	29	28	28	28	30	-	32	24	27	38	41	28	25	29	22	27	26	26	25	28	26	28	31	29	30	30	31	29	29	30	27	27	27	29	31	31	32	32	32	32	32	32	32	32	32	32	
P3_41	SWBP Walls~	-	28	29	31	30	29	28	27	27	27	28	-	31	23	26	35	39	21	40	28	20	22	25	25	24	27	25	26	29	26	29	29	30	27	27	29	26	26	26	28	30	30	31	31	31	30	31	31	31	30	31	31	
P3_42	Forebay Base~	-	27	28	30	29	27	27	26	26	26	27	-	30	23	25	33	38	18	38	27	18	20	23	24	23	26	24	25	28	26	28	27	29	26	26	27	25	25	25	26	28	29	29	29	29	29	29	29	29	29	29	29	
P3_43	Outfall Excavation~	-	29	31	32	30	30	29	28	28	27	29	-	32	24	26	38	41	22	41	29	20	26	25	26	25	28	26	27	30	31	30	30	31	28	28	30	27	26	27	28	31	31	31	31	31	31	31	31	31	31	31	31	31
P3_44	Haul Route operation P3~	-	35	40	40	54	37	38	36	35	35	35	-	38	35	26	33	39	31	36	32	24	28	32	32	32	33	30	32	31	32	30	29	32	28	28	32	30	29	28	31	31	32	33	32	32	33	32	33	33	32	32		
P3_45	Stockpile Main*	-	38	42	40	49	48	45	42	40	40	43	-	44	39	29	24	24	27	26	28	25	28	34	34	34	33	33	33	33	33	34	31	23	29	23	23	31	31	25	24	30	29	29	30	30	29	29	29	29	29	29	29	
P3_46	CI & BOP primary bulk excavation~	-	32	34	35	34	33	32	31	31	30	32	-	35	27	29	37	42	28	39	34	26	27	28	29	29	30	29	30	29	33	31	32	33	30	30	33	29	29	29	31	33	33	34	34	34	34	34	35	35	35	35	35	
P3_48	Compounds#	-	29	33	35	37	32	30	29	28	27	29	-	32	30	22	22	33	29	26	27	18	25	25	26	26	25	24	25	25	27	22	24	25	23	22	26	24	25	23	25	24	25	25	25	26	26	25	26	26	25	26	25	25
P3_49	Railhead – Operation~	-	23	26	26	37	20	27	26	23	25	31	-	35	35	24	19	20	21	19	21	18	23	29	30	28	27	27	27	26	29	25	18	23	18	17	28	25	22	20	24	23	23	23	23	23	23	23	23	23	23	23	23	
P3_50	Concrete Batching & Slurry Treatment Plants~	-	36	39	41	42	37	36	35	34	33	34	-	38	36	27	27	32	30	30	31	24	30	31	32	32	31	30	31	31	30	28	23	29	22	22	32	29	30	28	31	30	30	31	31	31	31	31	31	31	31	31	31	31
P5_01B	Reinstatement Stripping#	24.0	41	46	43	55	55	51	48	45	47	59	-	58	50	44	32	37	33	31	34	33	35	55	59	54	53	52	52	52	49	37	29	37	29	32	41	39	32	31	39	38	36	36	36	36	36	37	37	37	37	37	37	
P5_13A	Reinstatement Contractor's Compounds#	24.0	37	41	41	58	44	41	39	39	38	46	-	51	48	41	30	38	34	30	33	32	34	39	40	40	39	39	39	38	41	36	30	34	29	28	38	37	33	31	36	35	34	34	34	34	35	35	35	35	35			

Table 6. Detailed construction noise results – night (L_{Aeq,T} façade)

Ref	Activity	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	R16	R17	R18	R19	R20	R21	R22	R23	R24	R25	R26	R27	R28	R29	R30	R31	R32	R33	R34	R35	R36	R37	R38	R39	R40	R41	R42	R43	R44	R45	R46	R47	R48	R49	R50		
Max individual activity		36	39	41	43	37	36	35	34	33	37	-	43	43	33	38	42	37	41	31	27	31	40	41	38	37	37	37	36	38	32	30	31	29	29	35	32	30	28	32	31	32	32	32	32	32	32	32	31	31			
Max individual or combined activity		37	40	42	44	39	38	37	36	36	39	-	43	44	34	38	43	38	42	34	29	33	40	41	39	38	38	38	37	38	34	31	34	31	30	36	34	33	31	34	35	35	35	35	35	35	35	35	36	35	35	35	
P1_11B	Cut off Wall - Construction#	30	32	33	34	31	30	30	30	30	29	-	33	29	30	32	42	37	33	30	27	29	28	28	28	30	28	29	28	31	29	30	31	29	29	30	28	28	28	29	31	32	32	32	32	31	32	32	32	31	31		
P1_25	Desal operation Phase 1~	17	19	21	19	19	18	17	17	17	16	-	20	14	15	23	28	13	13	19	12	14	14	15	15	17	16	17	15	16	18	18	19	16	16	18	16	15	16	17	19	19	19	19	19	19	19	19	19	19	19	19	
P1_26	Temp concrete batching plant~	28	30	32	29	30	28	27	26	26	26	-	29	31	21	22	35	29	27	28	20	22	24	25	26	25	24	25	24	27	23	25	26	24	24	26	23	23	23	25	25	26	26	26	26	26	26	26	26	26	25		
P2_16	Railhead – Operation~	31	34	34	43	35	35	34	33	33	37	-	43	43	33	26	26	28	28	30	27	31	40	41	38	37	37	37	36	38	32	26	31	25	25	35	32	30	27	32	31	31	31	31	31	31	32	31	32	32	31	31	
P2_25	Desal operation Phase 1~	17	19	21	19	19	18	17	17	17	16	-	20	14	15	23	28	13	13	19	12	14	14	15	15	17	16	17	15	16	18	18	19	16	16	18	16	15	16	17	19	19	19	19	19	19	19	19	19	19	19	19	
P2_50	Concrete Batching Plant ~	34	37	39	39	36	34	33	32	32	33	-	35	35	26	26	31	29	29	29	24	29	29	30	30	29	29	29	29	29	27	22	27	21	21	30	28	28	26	29	29	29	29	29	29	29	29	29	29	29	29		
P3_25	Desal Phase 2~	25	28	30	31	25	25	24	23	23	23	-	27	24	16	16	20	19	20	22	13	18	20	21	21	20	19	20	20	18	17	13	18	11	11	21	18	19	17	20	19	20	20	20	20	20	20	20	20	20	20	20	
P3_43	Outfall Excavation~	29	31	32	30	30	29	28	28	27	29	-	32	24	26	38	41	22	41	29	20	26	25	26	25	28	26	27	30	31	30	30	31	28	28	30	27	26	27	28	31	31	31	31	31	31	31	31	31	32	31	31	31
P3_49	Railhead – Operation~	28	30	31	40	27	32	31	29	30	36	-	41	40	32	25	26	25	24	26	24	28	39	41	37	36	36	36	35	35	29	24	28	23	23	32	30	27	25	29	29	28	28	29	29	29	29	29	29	29	29	28	
P3_50	Concrete Batching Plant~	30	32	33	34	31	30	30	30	30	29	-	33	29	30	32	42	37	33	30	27	29	28	28	28	30	28	29	28	31	29	30	31	29	29	30	28	28	28	29	31	32	32	32	32	31	32	32	32	31	31	31	
Combined																																																					
P1		32	34	36	35	34	32	32	32	31	31	-	35	34	31	33	43	38	34	32	28	30	29	30	30	31	30	30	30	32	31	31	33	31	30	32	30	30	30	31	32	33	33	33	33	33	32	33	33	33	33	32	
P2		36	39	40	44	39	38	36	36	36	39	-	43	44	34	30	34	32	31	33	29	33	40	41	39	38	38	38	37	38	33	28	32	27	27	36	34	32	30	34	33	33	33	34	33	34	34	34	34	34	34	34	33
P3		37	40	42	44	38	38	37	36	36	39	-	43	42	34	38	42	32	42	34	28	33	40	41	39	38	37	38	37	38	34	31	34	30	30	36	33	33	31	34	35	35	35	35	35	35	35	35	36	35	35	35	

plant progresses across the working area therefore result provided as an estimate of the worst-case ten days

~ activity with limited plant in a specific location, or a line source such as a haul route or train movement, therefore result provided as the noise level for the whole activity



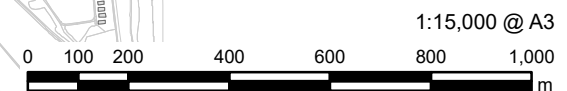
LEGEND

- Receptors
- Noise barrier - committed
- Noise barrier - additional
- Residential Buildings
- Non-residential Buildings
- Red line planning boundary

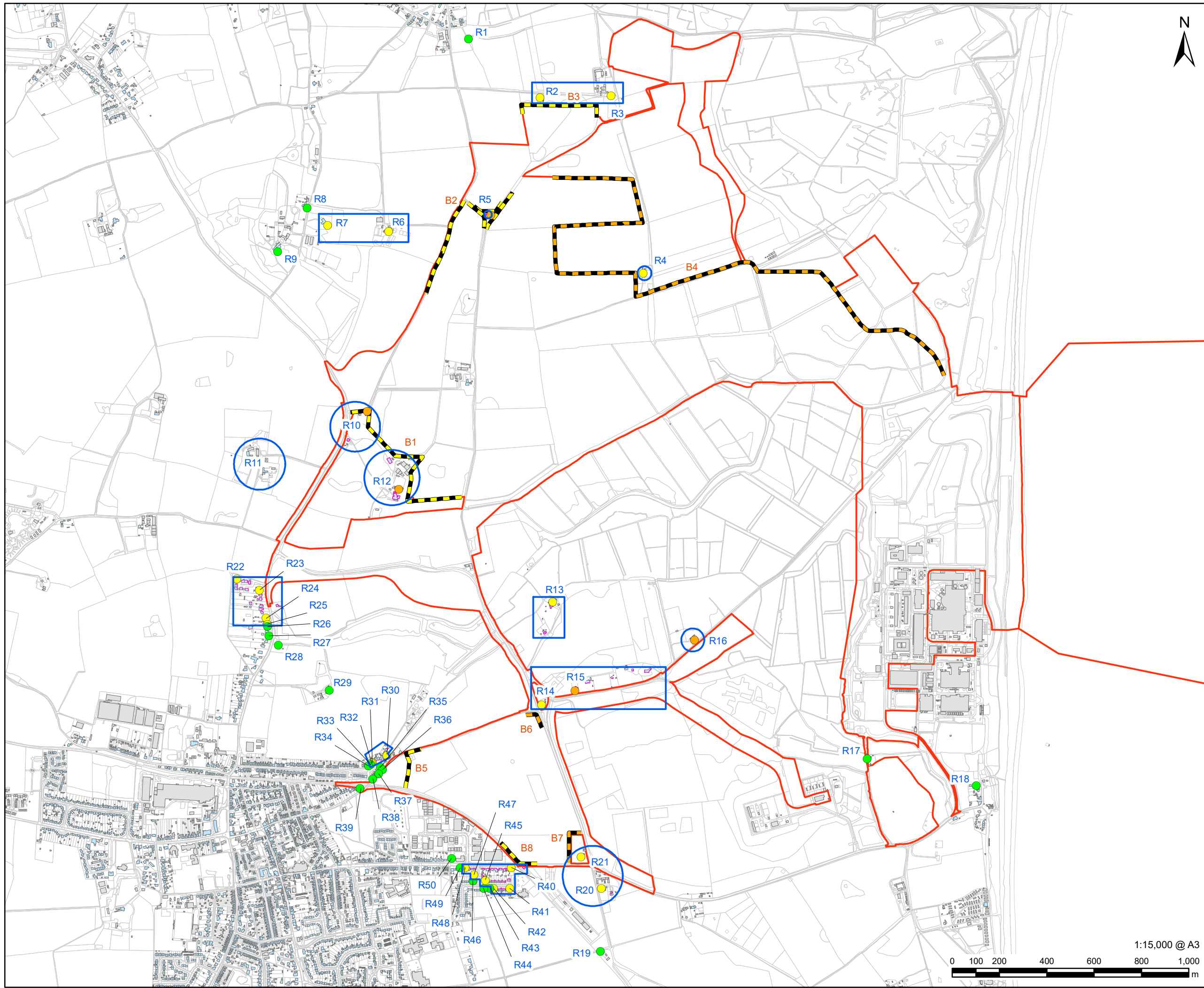
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ISSUE PURPOSE
FINAL
PROJECT NUMBER
60679030_NI_MDS_1
FIGURE TITLE
MDS Location Plan

FIGURE NUMBER
Figure 1



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LEGEND

Highest daytime construction noise level - individual or combined activity

- < 54.5 dB LAeq,T facade
- 54.5 to 64.4 dB LAeq,T facade
- >= 64.5 dB LAeq,T facade

- Noise insulation qualification facades
- Noise insulation qualification areas
- Noise barrier - committed
- Noise barrier - additional
- Residential Buildings
- Non-residential Buildings
- Red line planning boundary

NOTES

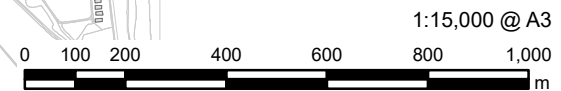
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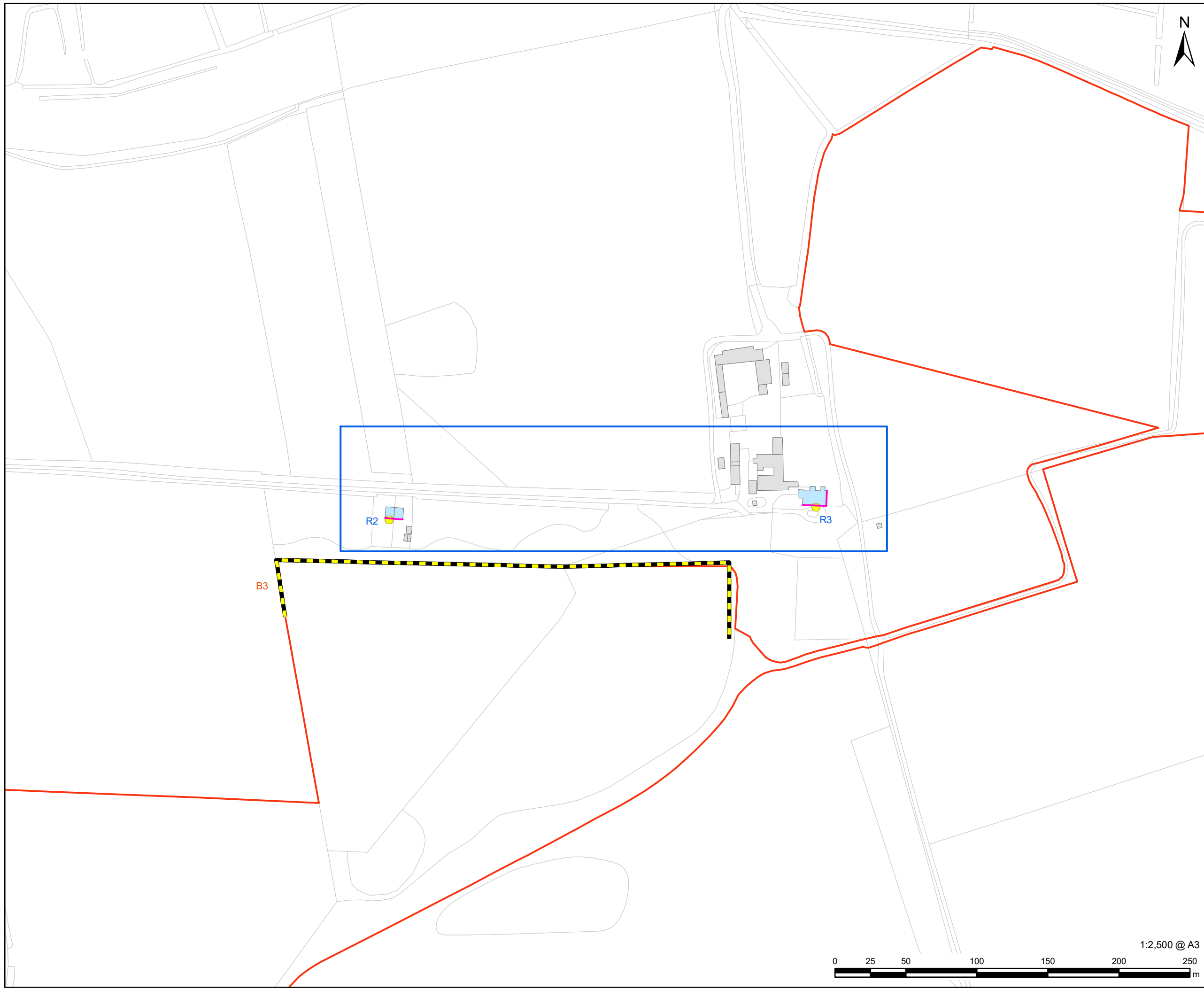
PROJECT NUMBER
60679030_NI_MDS_1

FIGURE TITLE
MDS Noise Insulation Qualification Overview

FIGURE NUMBER
Figure 2a



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LEGEND

Highest daytime construction noise level - individual or combined activity

- < 54.5 dB LAeq,T facade
- 54.5 to 64.4 dB LAeq,T facade
- >= 64.5 dB LAeq,T facade

- Noise insulation qualification facades
- Noise insulation qualification areas
- Noise barrier - committed
- Noise barrier - additional
- Residential Buildings
- Non-residential Buildings
- Red line planning boundary

NOTES

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FINAL

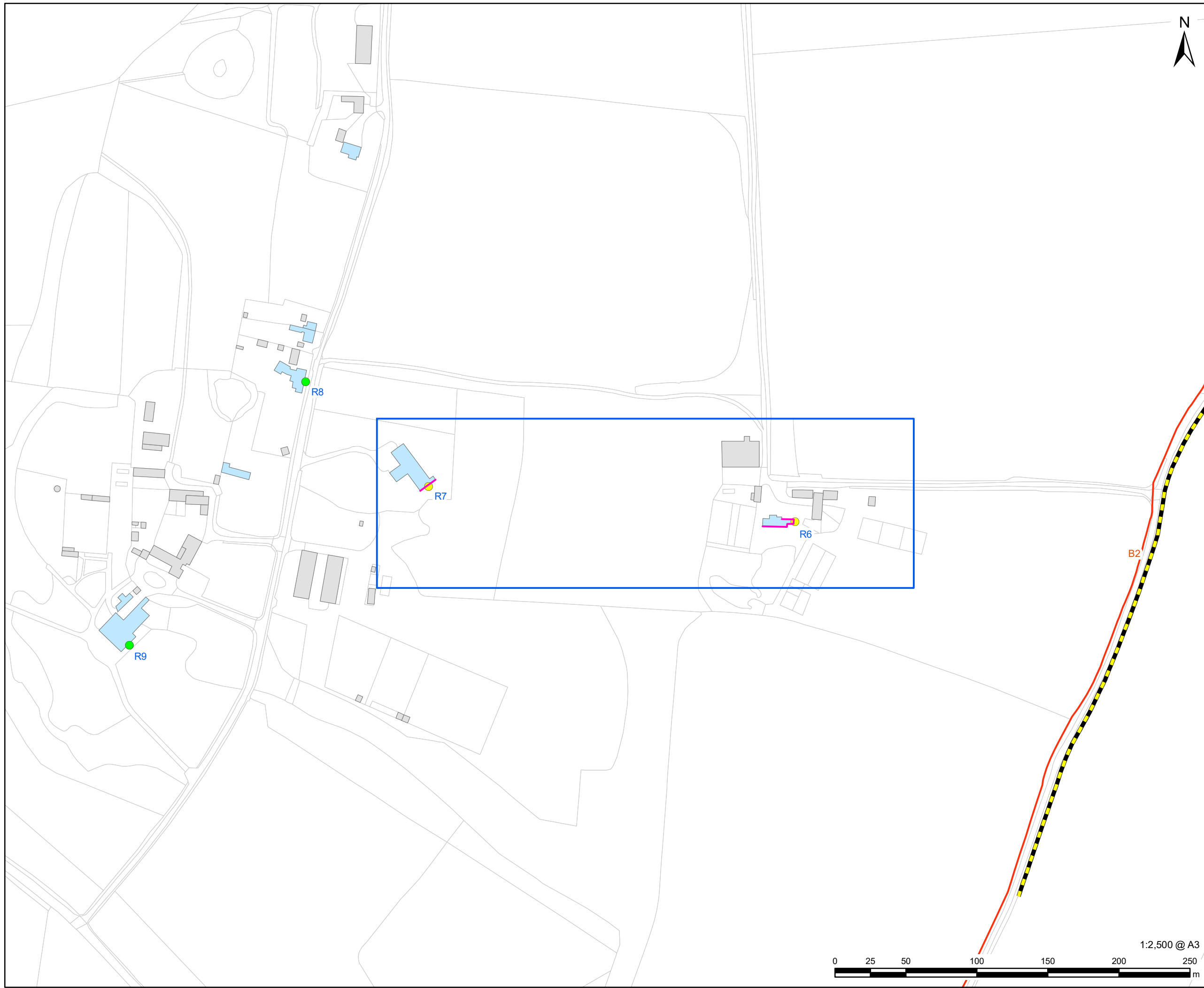
PROJECT NUMBER
60679030_NI_MDS_1

FIGURE TITLE
MDS Noise Insulation Qualification
Page 1 of 8

FIGURE NUMBER
Figure 2b



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AECOM

PROJECT
Sizewell C Nuclear Power Station

CLIENT
NNB Generation Company (SZC) Limited

CONSULTANT
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- LEGEND**
- Highest daytime construction noise level - individual or combined activity**
- < 54.5 dB LAeq,T facade
 - 54.5 to 64.4 dB LAeq,T facade
 - >= 64.5 dB LAeq,T facade
- Noise insulation qualification facades
 - Noise insulation qualification areas
 - Noise barrier - committed
 - Noise barrier - additional
 - Residential Buildings
 - Non-residential Buildings
 - Red line planning boundary

NOTES

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ISSUE PURPOSE
FINAL

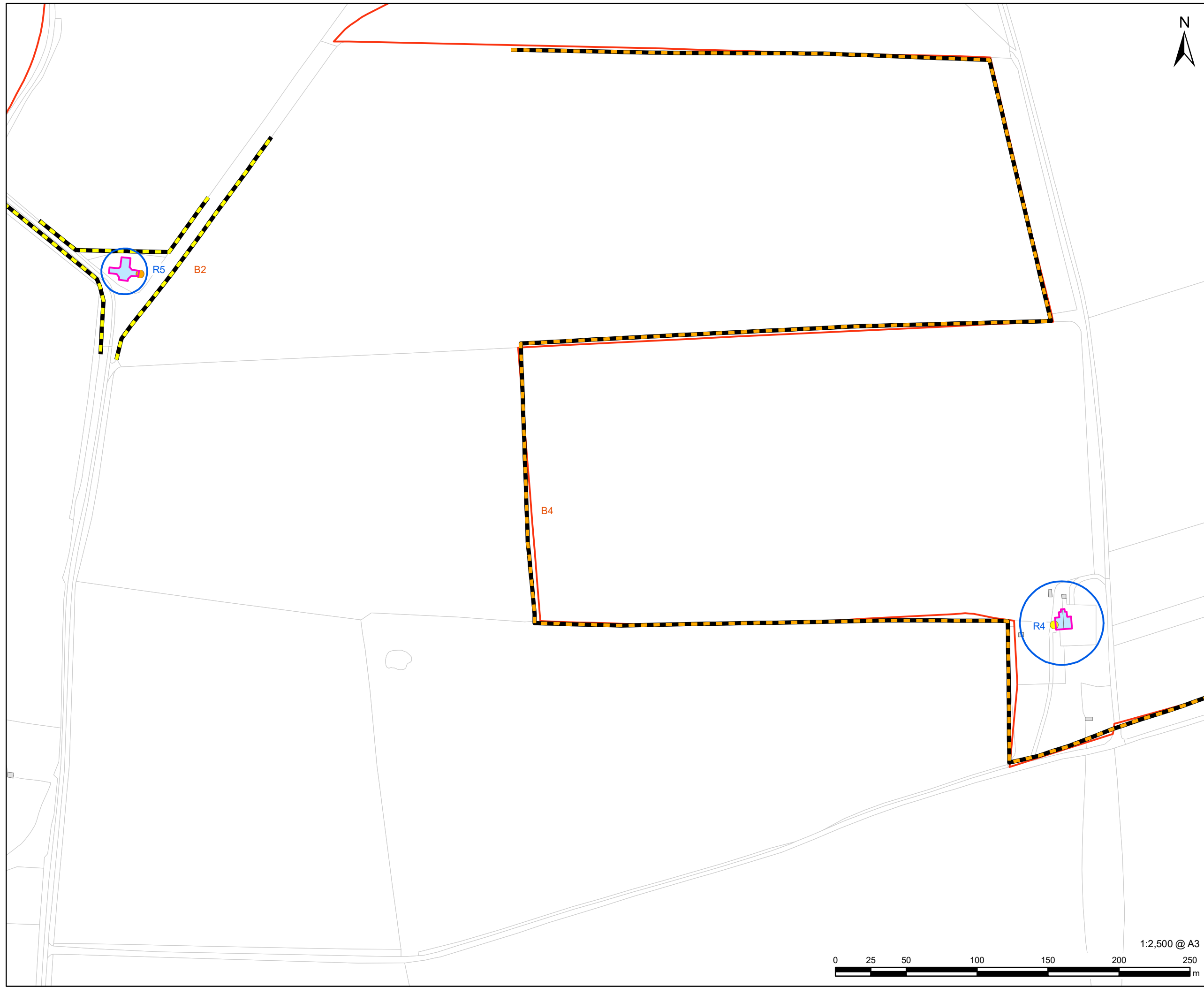
PROJECT NUMBER
60679030_NI_MDS_1

FIGURE TITLE
MDS Noise Insulation Qualification
Page 2 of 8

FIGURE NUMBER
Figure 2c



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LEGEND

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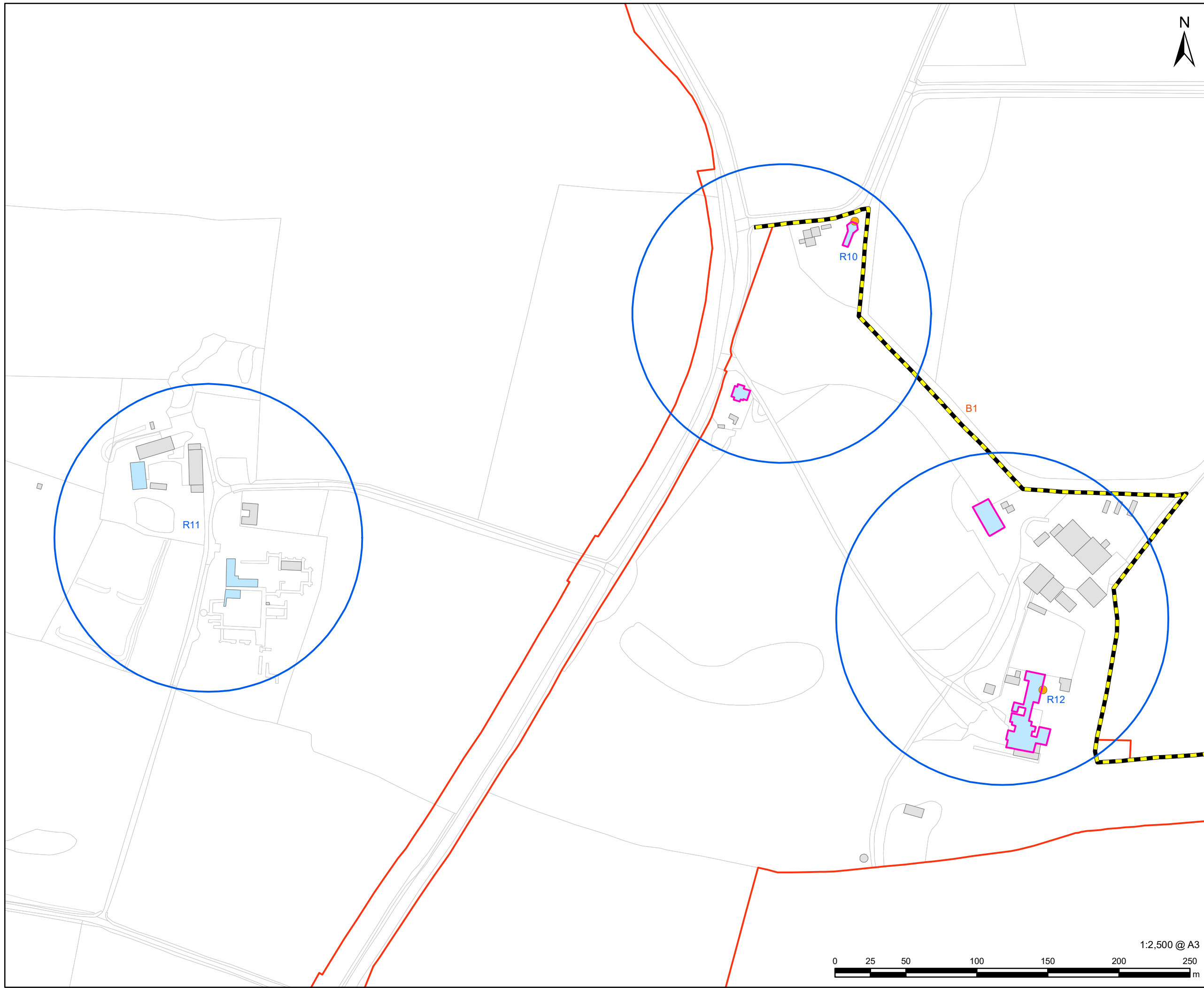
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FIGURE TITLE
MDS Noise Insulation Qualification
Page 3 of 8

FIGURE NUMBER
Figure 2d



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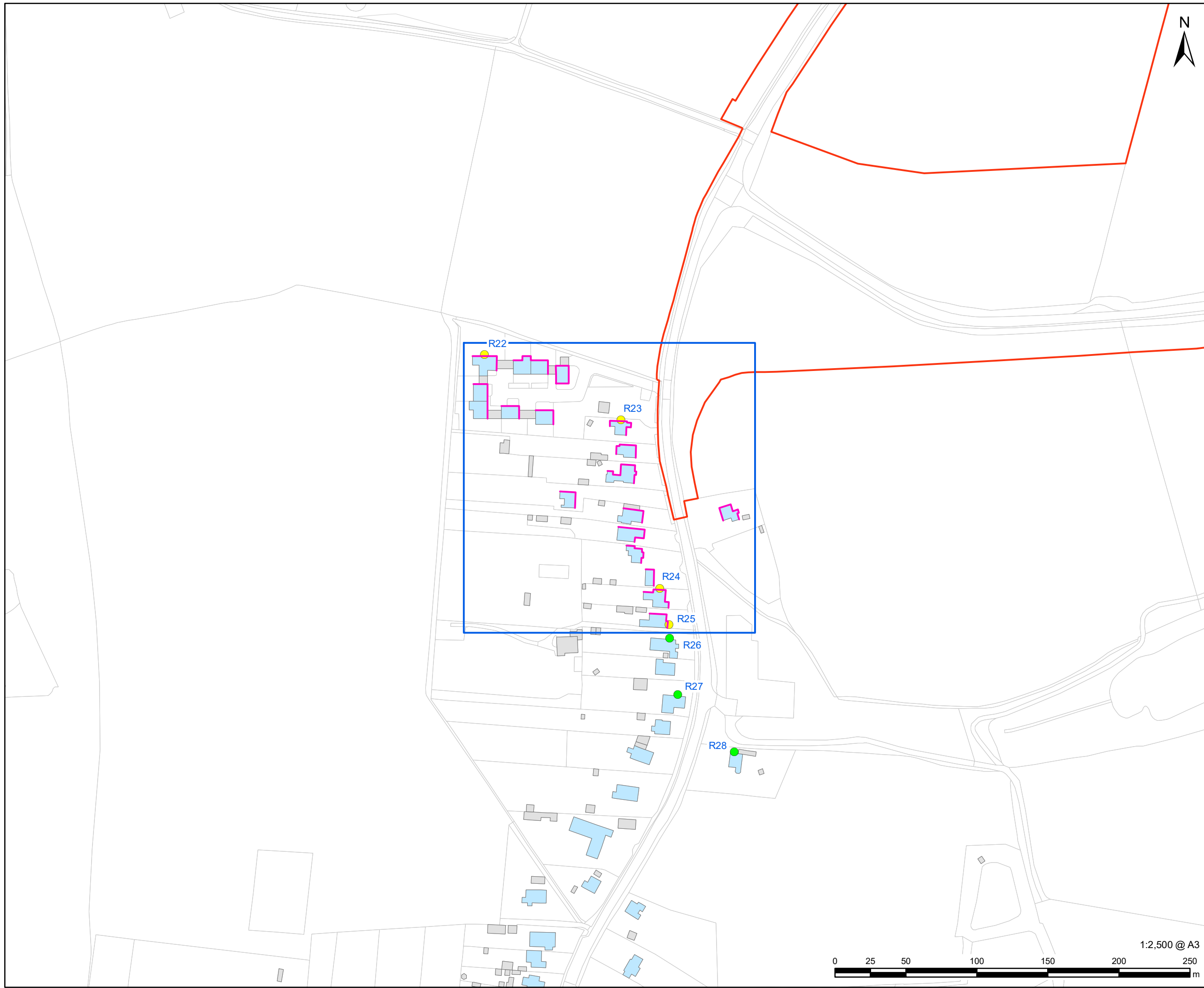
PROJECT NUMBER
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FIGURE TITLE
MDS Noise Insulation Qualification
Page 4 of 8

FIGURE NUMBER
Figure 2e



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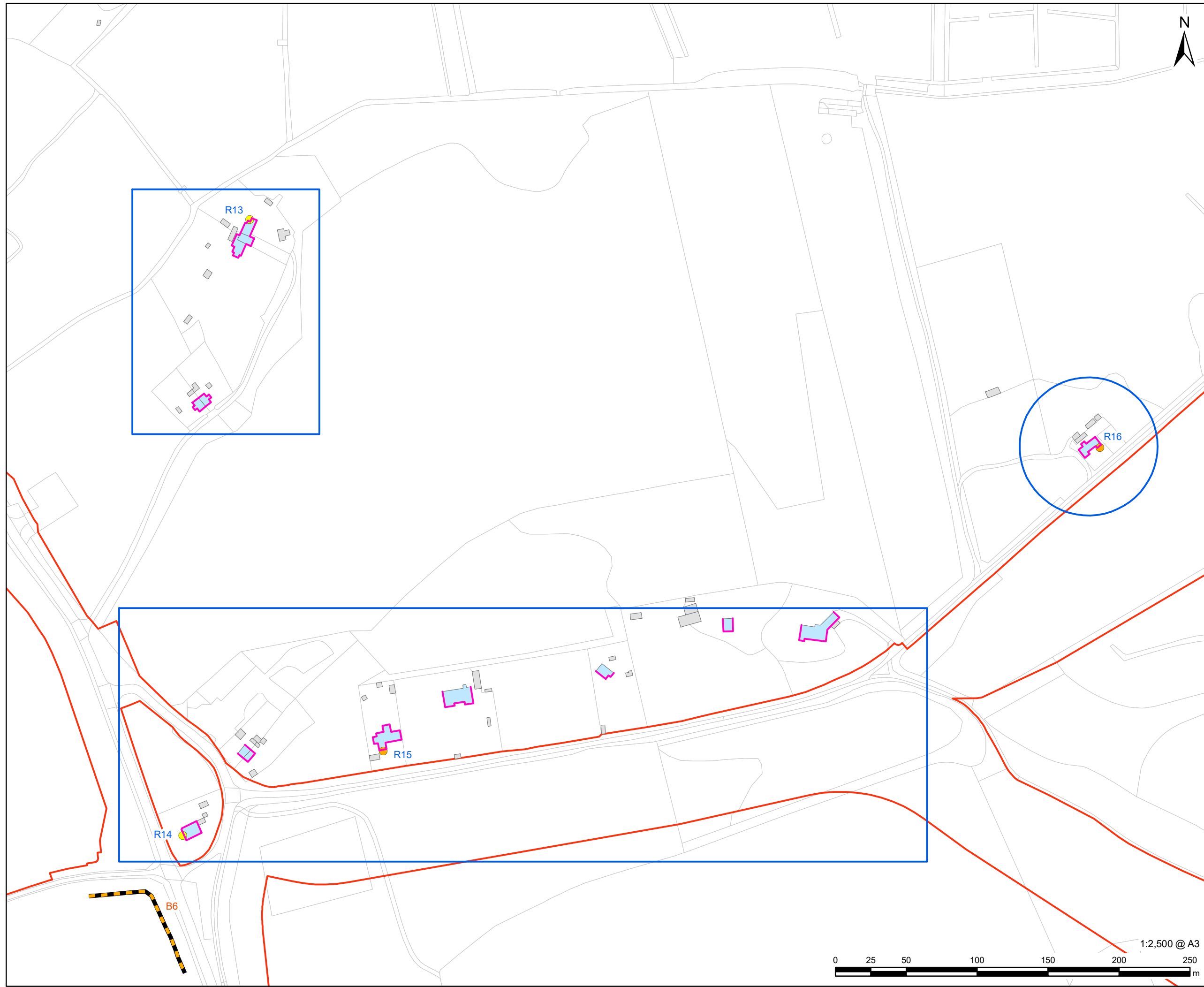
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PROJECT NUMBER
60679030_NI_MDS_1

FIGURE TITLE
MDS Noise Insulation Qualification
Page 5 of 8

FIGURE NUMBER
Figure 2f

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LEGEND

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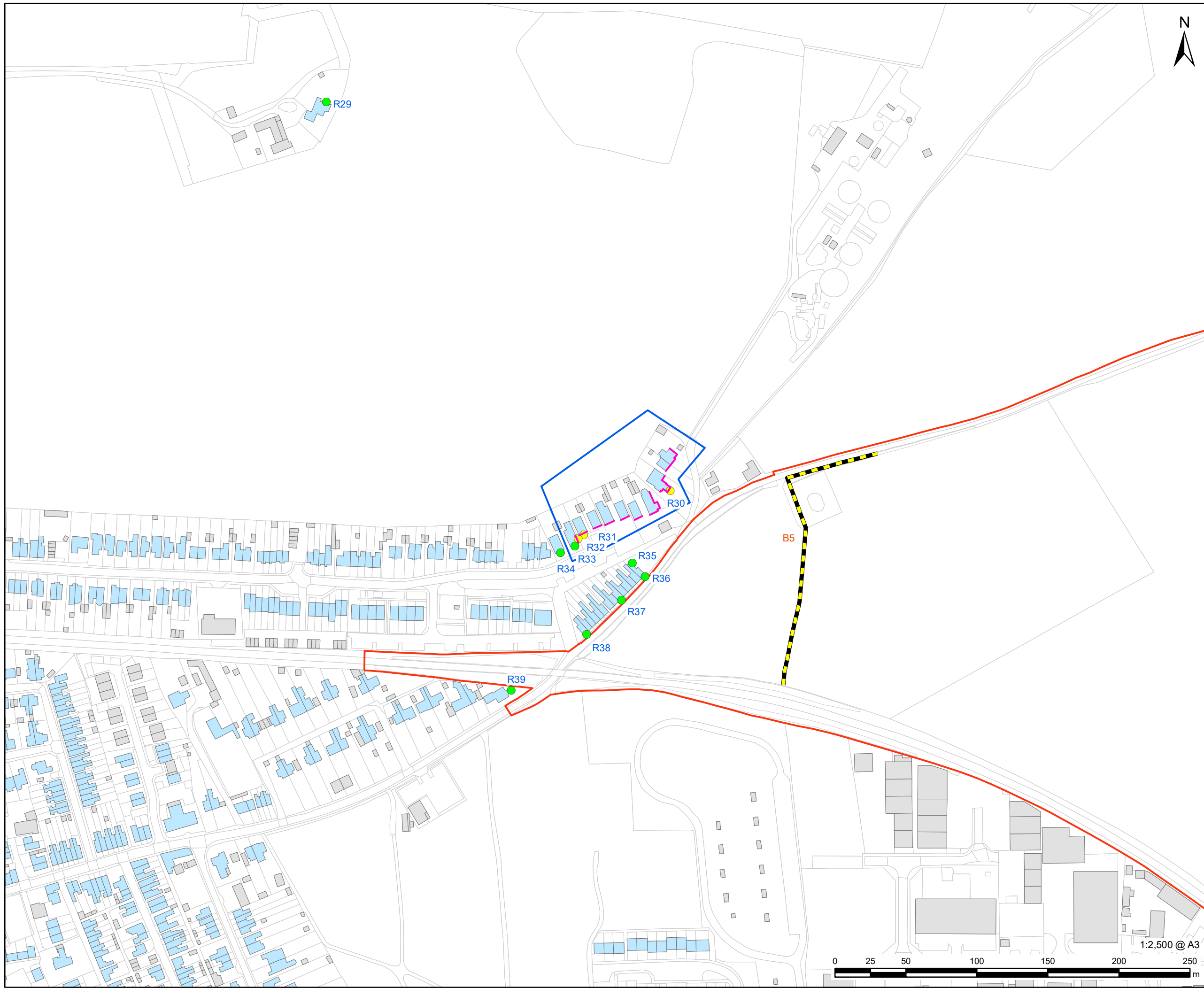
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FIGURE TITLE
MDS Noise Insulation Qualification
Page 6 of 8

FIGURE NUMBER
Figure 2g

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PROJECT NUMBER
60679030_NI_MDS_1

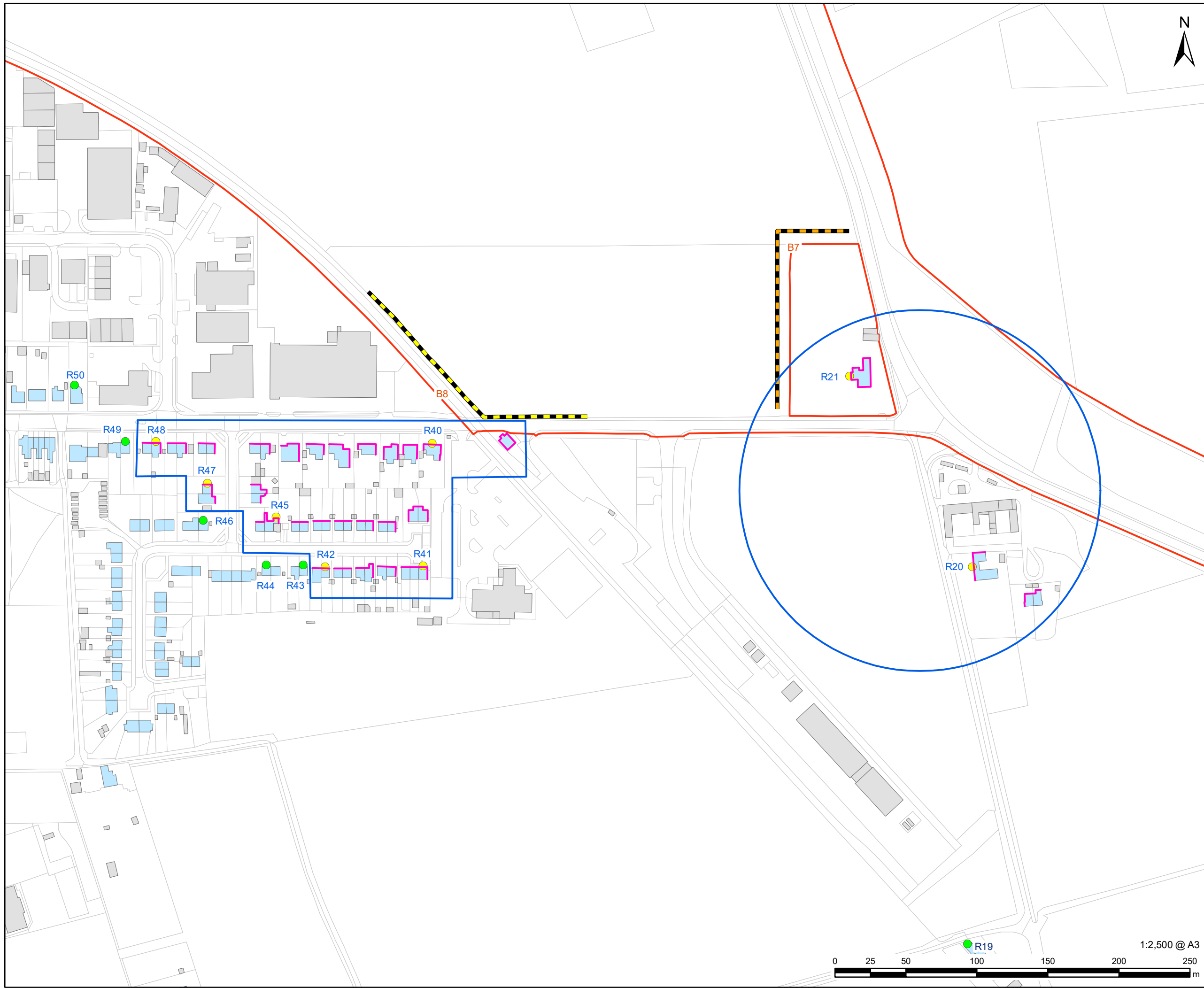
FIGURE TITLE
MDS Noise Insulation Qualification
Page 7 of 8

FIGURE NUMBER
Figure 2h



1:2,500 @ A3

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FIGURE TITLE
MDS Noise Insulation Qualification
Page 8 of 8

FIGURE NUMBER
Figure 2i

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