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Date 22nd July 2022

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Dear Sir / Madam

**Town and Country Planning (Environmental Impact Assessment) Regulations 2017 -
Request for an EIA Screening Opinion for Fulking Wastewater Treatment Works upgrade**

I am writing on behalf of Southern Water Services Ltd. (Southern Water) to formally request a screening opinion under the Town and Country Planning (Environmental Impact Assessment) Regulations 2017 (EIA Regulations) regarding proposals to upgrade Fulking Wastewater Treatment Works (WTW).

Fulking WTW is an existing operational wastewater treatment site located at Clappers Lane, Fulking, West Sussex BN5 9LR (Grid Reference X: 524593 and Y: 111692) to the north west of Fulking village.

This letter and enclosed supporting documentation have been prepared to support the request for an EIA Screening Opinion and provides the information identified in the EIA Regulations. It presents the findings of a study undertaken to assess the potential environmental effects of the proposed development. It describes the environmental context; predicts the potential effects on the environment and outlines the management and mitigation measures that will be implemented to avoid significant effects.

The proposed development can be considered to fall under Schedule 2, Table 11 (c) 'Waste-water treatment plants' of the EIA Regulations 2017 and the total development area exceeds 1,000m² and therefore EIA Screening is appropriate.

The EIA Regulations 2017 require that such proposals be assessed against three broad criteria, namely:

- The characteristics of the proposed development (e.g. its size, use of natural resources, quantities of pollution and waste generated);

- The sensitivity of the receiving environment; and
 - The characteristics and significance of the potential effects (magnitude and duration).
- The design process has included consideration of proposals by Southern Water's Environmental Advisors and Ecologists. This has enabled potential impacts to be avoided by design where possible and minimised and mitigated elsewhere.

Southern Water's internal assessment of the development and its potential environmental effects concludes that the proposed development is not likely to have significant adverse impacts on the environment and therefore we would not expect the development to be classed as an EIA development.

Permitted Development

It is considered that the proposed development falls within Statutory Undertakers Permitted Development Rights as set out in the Town and Country Planning (General Permitted Development) Order 2015 (GPDO), Part 13, Class B which relates to wastewater undertakings and permits:

'(g) the installation in a sewerage system of a pumping station, valve house, control panel house or switch-gear house'; and

'(f) any other development in, on, over or under their operational land, other than the provision of a building but including the extension or alteration of a building.'

The purpose of such permitted development rights is to reduce the time burdens associated with the submission of planning applications, so that statutory undertakers can ensure the timely delivery of essential infrastructure required to maintain site operations.

Scheme Driver

The proposed development at Fulking WTW requires the installation of new process units to meet the Urban Improvement (U IMP) 5 Driver. This is a regulatory driver which requires Southern Water to reduce output phosphorous levels from various WTWs by December 2024. The revised required permit conditions for Fulking WTW are Phosphorus Standard of 0.5mg/l (Annual Average) and Iron of 4mg/l (95%) 8mg/l Upper Tier (UT)).

Development Proposal

Fulking WTW requires a number of additional process units to ensure that it can continue to process sewage for the catchment and ensure discharges comply with the new limits (as above). The proposed items of plant and supporting works required are detailed below in Table 1.

Table 1 - Proposed Development - Key Plant and Infrastructure

Description	Dimensions in metres	Finish
Final Effluent Kiosk	<ul style="list-style-type: none"> ■ Length: 1.8 m ■ Width: 1.8 m ■ Ext. Height: 2.5 m ■ Constr. Depth: 0.4 m 	GRP Green
Final Effluent Sample Chamber	<ul style="list-style-type: none"> ■ Length: 3.1 m ■ Width: 1.7 m ■ Ext. Height: 0.15 m ■ Constr. Depth: 2 m 	Concrete
Tertiary Treatment Plant Feed Pumping Station	<ul style="list-style-type: none"> ■ Length: 2.4 m Dia. ■ Width: N/A ■ Ext. Height: 0.2 m ■ Constr. Depth: 3 m 	Concrete
Motor Control Centre Kiosk	<ul style="list-style-type: none"> ■ Length: 5.3 m ■ Width: 1.5 m ■ Ext. Height: 3 m ■ Constr. Depth: 0.4 m 	GRP Green
Airlift De-Sludge Kiosk	<ul style="list-style-type: none"> ■ Length: 1.4 m ■ Width: 1 m ■ Ext. Height: 3 m ■ Constr. Depth: 0.4 m 	GRP Green
Ferric Storage Tank	<ul style="list-style-type: none"> ■ Length: 2.3 Dia. ■ Width: N/A ■ Ext. Height: 1.5 m ■ Constr. Depth: 0.4 m 	Black Plastic
Fill Point Kiosk	<ul style="list-style-type: none"> ■ Length: 1 m ■ Width: 1 m ■ Ext. Height: 2 m ■ Constr. Depth: 0.4 m 	GRP Green
Ferric Dosing Kiosk	<ul style="list-style-type: none"> ■ Length: 4.5 m ■ Width: 1 m ■ Ext. Height: 3 m ■ Constr. Depth: 0.4 m 	GRP Green
Air Mixing Kiosk	<ul style="list-style-type: none"> ■ Length: 1.1 m ■ Width: 0.55 m ■ Ext. Height: 3 m ■ Constr. Depth: 0.25 m 	GRP Green
Agi-Sac and Ferric Mixing Chamber	<ul style="list-style-type: none"> ■ Length: 4.55 m ■ Width: 2.030 m ■ Ext. Height: 0.15 m ■ Constr. Depth: 1.8 m 	Concrete

Washwater Booster Kiosk	<ul style="list-style-type: none"> ■ Length: 2 m ■ Width: 1.5 m ■ Ext. Height: 2.3 m ■ Constr. Depth: 0.4 m 	GRP Green
Tertiary Treatment Plant Filters 3	<ul style="list-style-type: none"> ■ Length: 1.6 m Dia. ■ Width: N/A ■ Ext. Height: 4.7 m ■ Constr. Depth: 0.4 m 	Coated Steel - Green
Dirty Backwash Tank	<ul style="list-style-type: none"> ■ Length: 3 m Dia. ■ Width: N/A ■ Ext. Height: 3.63 m ■ Constr. Depth: 0.4 m 	Coated Steel - Green
Clean Backwash Tanks	<ul style="list-style-type: none"> ■ Length: 3.4 m Dia. ■ Width: N/A ■ Ext. Height: 3.63 m ■ Constr. Depth: 0.4 m 	Coated Steel - Green

Temporary Construction Compound

To support construction activities a temporary construction compound (55m x 20m, total area 1100m²) will be established within an agricultural field adjoining east of the proposed development.

The temporary construction compound will have stacked cabins, toilets, changing rooms, a canteen and an office / meeting rooms. There will also be car parking spaces.

To facilitate the compound the area will be soil stripped and there will be a mix of type 1 subbase, terram geotextile and concrete slabs for welfare cabins. The area will be fully reinstated following completion of the proposed development.

The use of the land for the temporary construction is also considered to be covered by the GPDO, Part 4, Class A:

'A. The provision on land of buildings, moveable structures, works, plant, or machinery required temporarily in connection with and for the duration of operations being or to be carried out on, in, under or over that land or on land adjoining that land.'

Construction Programme

Construction works are programmed to commence in August 2022 and are scheduled to take approximately 68 weeks to complete. This period includes site set up, commissioning and any repair and reinstatement works required.

Construction work will generally be undertaken between 07:30 and 17:00 Mondays to Fridays and no work is anticipated at the weekend. Working at night will be avoided. There is no intention for

work to be undertaken on Sundays or any Bank Holidays. Advance agreement will be sought prior to any works outside of the standard hours detailed above.

Traffic Management and Access

During the construction period, the proposed development will be accessed via the existing site entrance off Clappers Lane.

Due to the size of plant and equipment required for the proposed development the existing bridge west of the site has an unsuitable weight limit. Therefore a temporary bailey bridge is to be installed over the existing bridge. The delivery vehicle for the bridge is large enough that a 1m strip will be cleared adjacent to the access road to allow the delivery vehicle to safely turn. In addition a 3.5m long strip of type 1 hardstanding will be put in north of the access road. This can be seen in the drawing included in Appendix A.

Peak mobilisation period will commence in August 2022 and will take up to 44 weeks. This will require approximately 16 daily vehicle movements of cars and light vans as well as 6 heavy goods vehicle (HGV) movements over the course of this period. Parking for all vehicles will be provided either on the WTW site or within the temporary construction compound.

Traffic movements will be managed in accordance with best practice through implementation of a Traffic Management Plan.

Once the work is complete, there will be slight increase in operational traffic movements. Currently there is a total of approximately three vehicle movements a week and there will be approximately six vehicle movements following completion of the proposed development. This can be broken down into:

- Two operational car movements per week currently and this will increase to four following the proposed development.
- There is approximately one sludge tanker vehicle movement per week currently and this will increase to two following the proposed development.
- Currently there are no chemical deliveries (via a tanker) but following the works there will be one chemical delivery per month.

Site Lighting

Fulking WTW is an unmanned site, with only periodic attendance by site operators for inspection and maintenance. Planned work on site will only take place during normal working hours, with the site only requiring site attendance approximately twice a week.

As part of the upgrade to the WTW new lighting will be installed to allow the site to be accessed safely when there is insufficient light (for example during short days in winter).

All lighting will be manually switched on and off, with lights only being on when operators are on site and low light conditions occur. The lighting provision will fall into categories of access lighting, task lighting and temporary lighting.

Access Lighting

The site is an unmanned site, the site road and pathway lights will be manually switched on/off, as and when needed, at the site road entrance. To mitigate any impact on protected species and the surrounding environment, lighting will be orientated away from site boundaries, which comprises hedges and trees, to minimise light trespass.

Lights will be pole mounted with a beam angle of not more than 70° and shielded to block upward lighting. All lighting columns/masts shall be hinged raising and lowering type to allow access for maintenance. Lighting fittings shall be hinged to allow adjustment to meet design requirements during installation.

The lighting will be designed to meet the following illumination levels and restrictions.

The upward light ratio (ULR) shall be 0% as required for the site location E1 (a) Intrinsic Rural Darkness and Buffer.

The Colour Correlated Temperature (CCT) of the lights will be a warm white spectrum 3000K (ideally <2700Kelvin) to reduce blue light component.

The Lux level in the each area will depend upon the purpose of the light. Southern Water define the following Lux levels of lighting to be provided to allow activities to be carried out safely in specification MED 4318 Lighting Installations.

- i) Paths and roads shall have an illumination level of 5 Lux; and
- ii) Chemical Delivery Bay shall have an illumination level of 150 Lux. The increase in Lux is needed as chemical (ferric sulphate) will be delivered, and good illumination is required for safety reasons.

Task Lighting

Kiosks will contain internal lights that are manually switched on/off from within the kiosk. External Task lighting will be installed to allow maintenance work to be carried out safely these shall be manually switched on/off local to the task.

To mitigate any impact on protected species and the surrounding environment, lighting will be orientated away from site boundaries, which comprises hedges and trees, to minimise light trespass.

Task Lighting luminaires shall be installed at low level <2.3 m local to the task and either peripherally mounted on structures or short poles. Task Lighting will be directed at the task, with appropriate shielding as required to block upward light and minimise light trespass.

The lighting shall be designed to meet the following illumination levels and restrictions.

The ULR shall be 0% as required for the site location E1 (a) Intrinsic Rural Darkness and Buffer.

The Colour Correlated Temperature (CCT) of the lights shall be a warm white spectrum 3000K (ideally <2700Kelvin) to reduce blue light component.

The Lux level in the each area will depend upon the purpose of the light. Southern Water define the following Lux levels of lighting to be provided to allow activities to be carried out safely in specification MED 4318 Lighting Installations.

- i) Control panels and equipment shall have an illumination level of 100 Lux. This is to provide sufficient light to carry out maintenance activities safely.

Additional Lighting Requirements

Lights shall be Light Emitting Diodes (LEDs) which have a sharp cut-off, lower intensity, good colour rendition and dimming capacity. Luminaires shall feature peak wavelengths higher than 550nm to avoid the component of light most disturbing to bats.

Location of Site Lighting

The proposed position of site lighting is shown on the drawing (Fulking WTW Sketch – Plan & Sections for Enabling) in Appendix A, the position of lights will be refined in detail design to meet the requirements identified above.


Temporary Lighting during construction

Construction work will take place during day light hours Monday to Friday only. Temporary lighting will only be required when light levels are below what is required to safely carry out the work. Lighting will be manually switched on/off and will only be on as required to safely access site and for any specific task.

The double stacked site cabins will have lighting when in use in low light conditions. However, the shutters / blinds on cabins facing externally will be closed during these times to minimise impact.

There will be lights in place on the stairs to access the second storey of the cabins and also for access around the temporary construction compound and walkway to the site. These will be LED, directional lights with shading. They will be manually switched on and off, and switched off when staff leave site. Lights will be compliant with the SDNP 0% upward light ratio (ULR).

Temporary task lighting will also be required – location of this will depend on the task to be undertaken and will be set up for individual activities as required. Site staff will aim to undertake all



activities that would require task lighting during daylight hours to avoid impact. However if absolutely necessary this will also be shielded directional LED lighting.

Locations of all lights will consider the guidance provided in South Downs National Park – Dark Skies Technical Advice Note Version 2 – May 2021. As well as the principles of the permanent design, which is designed to minimise light pollution and any impact on the surrounding environment.

Demolition / Decommissioning

There is no demolition associated with the proposed development.

Site Reinstatement

The permanent development is entirely within the boundary of an existing operational WTW. Reinstatement / reseeding will occur around new structures on the WTW site. In addition, reinstatement of areas of temporary works around the access road and construction compound location will be completed following completion of the works.

Potential Impacts on the Environment

The potential environmental impacts of the proposed development have been considered and reviewed throughout the project development by an Environmental Advisor working with the Engineering Design Team to ensure any negative impacts are addressed and, as far as possible, designed out.

Ecology and Designated Areas

A suitably experienced Ecologist carried out a Preliminary Ecological Appraisal (PEA) of the site on the 2nd of July 2020 which consisted of a desktop assessment followed by a walkover survey of the site. Protected species surveys recommended by the PEA were undertaken between 2021 and 2022. The PEA and further surveys were used to inform an Ecological Impact Assessment (EclA) which is presented below.

Statutory Designated Areas

Beeding Hill to New Timber Hill Site of Special Scientific Interest (SSSI) is approximately 500m south of the proposed development and is the only statutory designated area within 2km. It is designated for chalk grassland, juniper scrub and pendunculate oak/ash/beech woodland. There will be no direct effects on this designated area due to the limited scale of the proposed development. The risk of impact from dust from construction activities is limited due to distance from the SSSI and will be mitigated by specifically managing excavated materials to reduce potential for any wind-blown dust. None of the SSSI's designated features are elements which could be impacted by temporary construction noise. The proposed development is therefore unlikely to have a significant effect on this or any other statutory designated areas.

There are two Special Areas of Conservation (SACs) with bats as a qualifying feature within 30km of the proposed development;

- The Mens, approximately 24km north west; and
- Ebernoe Common, approximately 29km north west.

Given the distance of the proposed development from the SACs designated for bats, the limited extent of works within suitable bat habitat and the lack of direct connectivity from the SACs to the proposed development, it is unlikely that the proposed development will have a significant effect on the foraging and roosting activities of bats from the SACs.

Non-Statutory Designated Areas

Local Wildlife Sites

Truleigh Hill to Southwick Hill Chalk Grassland Local Wildlife Site (LWS) is approximately 1.8km south of the proposed development and is the only LWS within 2km. The proposed development will not have any direct or indirect effects on the LWS due to its distance from the site and the nature and scale of the proposed development. The watercourse west of the site is not a pathway to the LWS.

Ancient Woodland

There are five areas designated as Ancient Woodland within 2km of the proposed development. The closest is Perching Hovel Woods which is approximately 380m east of the proposed development. The proposed development will not have any direct or indirect effects on Ancient Woodland due to its distance from the site and the the nature and scale of the proposed development. The risk of indirect effects from construction activities will be mitigated by following Environment Agency pollution prevention guidelines. The proposed development is therefore unlikely to have a significant effect on Ancient Woodland.

Habitats

The habitats in proximity to the proposed development were surveyed as part of the PEA using the Phase 1 Habitat survey methodology (JNCC, 2010), which enables the ecological value of the site to be determined. Habitat within the site is predominately hard standing with areas of neutral semi-improved grassland maintained at a short sward. Several structures associated with the sewage treatment process are present within the site boundary. The site is bordered on four sides by an intact species poor hedgerow with flowing water adjacent to the western boundary fence.

Two of the habitat types in proximity to the proposed development, hedgerow and river, are UK Habitats of Principal Importance. These are habitats that have been identified as being the most threatened and requiring conservation action under S41 of the NERC Act 2006.

Direct impact to hedgerows as a result of the proposed development will be limited to a 4m section to be removed for widening of the main site access and minor trimming and therefore will not have a significant impact to this UK Habitat of Principal Importance.

The watercourse west of the WTW will not be directly affected by the proposed development (the temporary bridge will be placed across the channel and not impact the banks or flow) and the risk of indirect effects from construction activities will be mitigated by following Environment Agency pollution prevention guidelines. The proposed development is unlikely to have a significant effect on this UK Habitat of Principal Importance.

Protected Species

Badgers

A badger survey was undertaken as part of the PEA process which found no evidence of badger or potential badger setts within 30m of the proposed development. As badgers are likely to be present in the surrounding landscape, and frequently establish new setts, the survey was repeated in March 2022 and will be repeated immediately prior to construction. If badgers or their setts are encountered work will stop until advice can be sought from a suitably experienced ecologist on how to mitigate harm to badgers.

With standard mitigation measures in place and due to the limited extent and temporary nature of habitat loss required, the proposed development is unlikely to have a significant effect on badgers.

Bats

The proposed development have been designed to avoid habitat suitable for roosting, foraging or commuting bats. However, the proposed development may result in disturbance to two structures: a building within the site boundary and a bridge forming part of the site access track. A preliminary roost assessment of these structures was undertaken to assess their potential for roosting bats. The assessment found the bridge to have some features that could provide suitable habitat for roosting bats but that heavy plant growth around the bridge blocks access to these features and likely prevents their use by bats. The building within the site boundary was found to be of “moderate” suitability for roosting bats. Therefore the building was subject to two further emergence/return survey visits on 14/06/2021 and 12/07/2021 by a bat licensed ecologist. No bats were recorded roosting within the building during either survey visit and the risk of disturbing roosting bats during the proposed development is assessed to be negligible.

Where possible, construction works will be undertaken during daylight hours to avoid disturbance to commuting and foraging bats. Where night working is unavoidable and where permanent site lighting is required recommendations regarding bats and lighting will be adhered to in accordance with the following standards and guidance:

- Guidance Note 8: Bats and Artificial Lighting in the UK (2018) – Bat Conservation Trust & Institution of Lighting Engineers;

- BS EN 12464-2: Light and Lighting – Lighting of Workplaces – Part 2: Outdoor Work Places (2014) – BSI; and
- Lighting Guidance 6: The Exterior Environment (2016) – Chartered Institution of Building Services Engineers.

With standard mitigation measures in place and due to the limited extent of habitat affected (approximately 4m of hedgerow, localized trimming of a hedgerow and the removal of a small section of scrub and unmanaged grass to facilitate delivery of the bridge), the proposed development is unlikely to have a significant effect on bats.

Breeding Birds

There are no designated sites with birds as a qualifying feature within 2km of the proposed development. The vegetation in proximity to the proposed development forms a mosaic of habitats which provide opportunities for nesting, feeding and shelter for numerous species of breeding birds.

Southern Water undertook a desk study assessment of bird species as part of the PEA to establish the breeding bird species likely to be present in the area. The assessment identified that the area was likely dominated by common and widespread species, although species of conservation concern (such as Yellowhammer, Spotted Flycatcher, Cuckoo and Linnet among others) could also be present. Where possible, any vegetation removal was / will be scheduled to take place outside of the breeding bird season (breeding bird season March to August inclusive). On this basis the 4m section of hedgerow to facilitate the widening of the existing access was undertaken February 2022. However the remaining vegetation removal (localised trimming of a hedgerow and removal of a small area of scrub) will be checked by a suitably experience ecologist prior to removal. If breeding birds are encountered a suitably sized exclusion zone will be created and left in place until young have fledged.

With standard mitigation measures in place and due to the limited extent of habitat removal required, the proposed development is unlikely to have a significant effect on breeding birds.

Dormice

The hedgerows surrounding the site may provide suitable habitat for dormice. However, due to the limited extent of hedgerow disturbance anticipated, the risk of encountering dormice is negligible. To mitigate any residual risk, the 4m section of hedgerow removal was carried out under the supervision of a suitably experienced ecologist and in accordance with a precautionary method statement to avoid harm to dormice, no dormice were encountered during these works. The remaining hedgerow trimming will also be undertaken with ecological supervision and a method statement in place. In the unlikely event that dormice are encountered works will stop and a Development Mitigation License will be sought from Natural England.

With standard mitigation measures in place and due to the limited extent of habitat removal required and negligible effect on habitat connectivity, the proposed development is unlikely to have a significant effect on dormice.

Reptiles

The hedgerows and the areas of grassland at their base where the two habitat types transition may provide suitable habitat for common species of reptile. However, due to the limited extent of hedgerow disturbance anticipated, the risk of encountering reptiles is negligible. To mitigate any residual risk, the 4m section of hedgerow removal was carried out under the supervision of a suitably experienced ecologist and in accordance with a precautionary method statement, to avoid harm to reptiles. No reptiles were encountered during these works. The remaining hedgerow trimming will also be undertaken with ecological supervision and a method statement in place. In the unlikely event that reptiles are encountered works will stop until the reptiles are relocated from the affected area.

With standard mitigation measures in place and due to the limited extent of habitat removal required and the temporary nature of any habitat loss the proposed development is unlikely to have a significant effect on reptiles.

Conclusion

The permanent works are entirely within the operational boundary of Fulking WTW. All potential disturbance of protected species and sensitive habitat associated with the proposed development has been appraised. With the application of standard checks and the mitigation outlined herein there will be no significant impact on protected species, sensitive habitat, or designated sites.

Trees & Arboriculture

No tree removal is anticipated to be required for the proposed development. There are no trees subject to a Tree Preservation Order (TPO) within the area or in close proximity to the proposed development.

A small section (approximately 4m) of hedgerow was removed prior to breeding bird season (see sections above). Prior to this removal the South Downs National Park Authority were informed and confirmation given that a hedgerow removal notice was not required.

Proposed works will also include trimming of the species poor hedgerow bordering the south of Fulking WTW to facilitate safe access for vehicles and pedestrians.

There will be no likely significant effect on trees and arboriculture as a result of the proposed development.

Invasive Species

No invasive species were identified within the working area during the PEA undertaken 2nd July 2020 and in subsequent visits for protected species surveys since in 2021 and 2022. If invasive non-native species are encountered, then works will stop until recommendations from a suitably qualified ecologist to prevent their spread can be followed.

Archaeology and Cultural Heritage

No impacts to listed buildings, scheduled monuments or world heritage sites will result from the proposed development.

Archaeological consultants Archaeology South East (ASE) undertook a preliminary high-level assessment of the site and identified some archaeological potential based on proximity to the medieval village of Fulking and Perching manor, with a number of prehistoric and Romano-British sites known in the surrounding landscape, although no heritage assets are known within the site boundaries and the proposed development lies on the less fertile Gault just outside the main historic settlement zone.

The underlying Head deposits have some potential for early prehistoric archaeology, although this is likely to be in the form of isolated artefacts rather than in situ deposits. On this basis, the groundworks, including any topsoil stripping for storage/work compounds, will be carried out under archaeological monitoring (watching brief).

With the mitigation detailed above no significant effects on archaeology and cultural heritage are anticipated.

Landscape and Visual Assessment

The proposed structures are to be located within an existing WTW that comprises of amenity grassland, a small control building (approximately 2.3m high), a partially buried circular trickling filter bed, buried primary settlement tank and humus tank and hardstanding (as shown in Appendix A – [Design Drawing](#)). No part of the permanent proposed development encroaches into open countryside.

Landscape Designation

The proposed development is within the South Downs National Park (SDNP), a national landscape designation that seeks to protect the special qualities of the landscape.

The proposed development is also within the eastern part of National Character Area (NCA)125: South Downs which is a regional landscape designation with a complex area of open upland chalk downland which contrasts with woodland and has a closeness to urban areas.

The site also falls within the locally designated 'Eastern Scarp Foothills' Landscape Character Area (LCA LW11) within West Sussex Landscape Character Assessment, 2005. This LCA is described as an undulating relief of low sandstone ridges and gentle clay vales with southerly views dominated by steep downland slopes. This is steep downland is captured within LCA SD6 Eastern Downs to the south of Fulking.

The proposed development forms a very small part of these designations and no significant long term landscape impacts are predicted on these designations or on the local landscape character.

Landscape features

All field boundary hedgerows and trees within influencing distance of the development which contribute to the character of the landscape are to be retained. The only hedgerow which has been removed is a 4m section to widen the entrance of the existing access. This does not open up the WTW to any of the identified viewpoints detailed below.

During construction, site and pedestrian traffic will temporarily utilise the existing farm access track located to the immediate south. Minor hedgerow face trimming will be required to facilitate this. The temporary construction compound and minor temporary works required for access will be fully reinstated to pre-commencement conditions and all temporary structures removed from site following completion of the works.

Whilst it is considered that the proposed development will not cause adverse or significant landscape effects in terms of EIA, mitigation to ensure these conclusions remain are to be undertaken. This will include:

- Retaining all existing trees and hedgerows that play an important screening function in the vicinity of the proposals and;
- Providing replacement planting to ensure that there is no net loss of vegetation and biodiversity (for works that benefit from permitted development).

Visual and Residential Amenity

The proposed development is entirely within an operational WTW with both above ground and below ground structures to be constructed. Once the temporary installation works have been completed the only permanent change to the current appearance of the WTW will be the addition of the plant and infrastructure as outlined in Table 1.


The kiosks will be finished in a recessive green colour to minimise overall visual impact. The exact RAL colour is to be agreed with SDNP.

The closest and principal public right of way (PRoW) views will be gained from where it crosses the access track adjacent to the WTW (Path Number 4F) to the south and west, and from the PRoW VP10 & 2 (Path Number 8F) to the southeast and east, approximately 140m distant.

This site is surrounded by mature hedgerows which are approximately 3.5m high and currently provide good screening of the WTW from the settlement of Fulking and PRoW 8F. The proposed filter tanks are 4.7m high and backwash tanks are 3.6 m high and it is likely the tops of these tanks will be visible but remain backgrounded by existing trees and hedgerow along the watercourse resulting in no significant visual impacts.

Similarly, the main private residential views are gained from the rear of the housing along Edburton Road, approximately 250 m to the south and east and the open views from PRoW 9F, approximately 320m to the north-west would result no significant visual impact.

The South Downs Way, a long-distance path passes approximately 800m (at its closest point) to the south across the ridgeline encompassing Edburton Hill, Perching Hill and Fulking Hill. There are long distant panoramic views from this sensitive receptor to north which include views of the



site. However, the proposed development would form a very small part of these views and would result in no significant visual impact.

There are unlikely to be views from the property next to Season's Farm to the north as this is screened by mature trees lining either side of the access track.

There will be no views from Clappers Lane due to intervening landform and vegetation and there are no views from Edburton Road due to intervening built form and vegetation within foreground views to the north.

There are no views from Perching Manor Farm due to intervening vegetation within foreground screening views to the east.

To conclude no significant visual impacts are predicted during construction, operation or in the long-term. As such, it is considered that the proposed upgrade will have no significant visual amenity impacts, with regard to the EIA Regulations.

Water Resource

The proposed development is anticipated to cross an ordinary watercourse with a temporary bailey bridge which is being installed due to uncertainty over the weight limit of the bridge. The ordinary watercourse is adjacent to the western extent of the WTW. Consultation has been undertaken with the Mid Sussex District Council Flood and Drainage Support Officer on 30th May 2022, who reviewed the information provided and stated that ordinary watercourse consent is not required for the temporary bridge as there will be no impact to channel or flow of the watercourse.

Noise


A BS 4214 Sound assessment has been submitted to Southern Water by Southdowns Environmental consultant Ltd to assess the operational sound of the new plant associated with the upgrade of Fulking WTW. The report (Appendix C) includes a site description, baseline survey, results and modelling and then the conclusions of the report.

The conclusions state that "As the noise rating levels fall below the background sound assessment levels, additional mitigation other than that which is included in the design proposals for the upgrade of the WTW has not been identified."

Given the above findings of the BS4142 sound assessment no significant noise effects on local amenity are likely.

Rights of Way and Local Disturbance

The proposed development will be undertaken within the existing site boundary and should not impact upon any PRoW. However due to the construction of the bailey bridge there may be a temporary impact upon this PRoW. Southern Water's Contractor will be liaising with the local planning authority to ascertain their view on the possibility of a diversion or a temporary closure.



The proposed development will lead to a slight increase in traffic on local roads during construction (see Traffic Management and Access section above). The level of movements generated are considered to be relatively low and therefore the impact will not be significant.

The Traffic Management Plan will include measures to control traffic accessing the works in order to ensure that deliveries arrive at the site only at appropriate times.

There will be minor increase in additional traffic during operation however this increase is assessed as insignificant.

Odour and Dust

The proposed development does not include the installation of odour generating plant and therefore the level of odour emissions from the WTW will not increase.

Given the 140m distance to the closest sensitive residential receptors, dust emissions during construction from the proposed development are unlikely to result in any impact at these receptors. Normal preventative measures such as damping down of dust generating activities will be undertaken and specified in the Construction Environmental Management Plan or suitable equivalent.

Risk of Major Accidents and/or Disasters

The proposed processes and existing WTW site do not present and are not at significant risk from major accidents and/or disasters.

Risk to Human Health

The additional processes provide no significant risk to human health. Provision of the processes improves the quality of treated effluent being released to the environment, which further safeguards human health.

Conclusion

Given the relatively small scale of the development, its location entirely within an existing WTW site, the construction methods proposed, and the management tools that will be utilised during construction, our assessment has concluded there are no significant effects on ecologically significant habitats or protected species and no long term impacts on the human or built environment.

In view of the project design, planned project management and our assessment of the areas to be affected, Southern Water are of the opinion that the proposals would not generate significant environmental effects and therefore the proposed upgrade scheme does not constitute a development for which EIA is required. We request the Council's opinion in this matter.

Should you have any queries regarding this request, or require any further information then please contact me.

Yours faithfully.

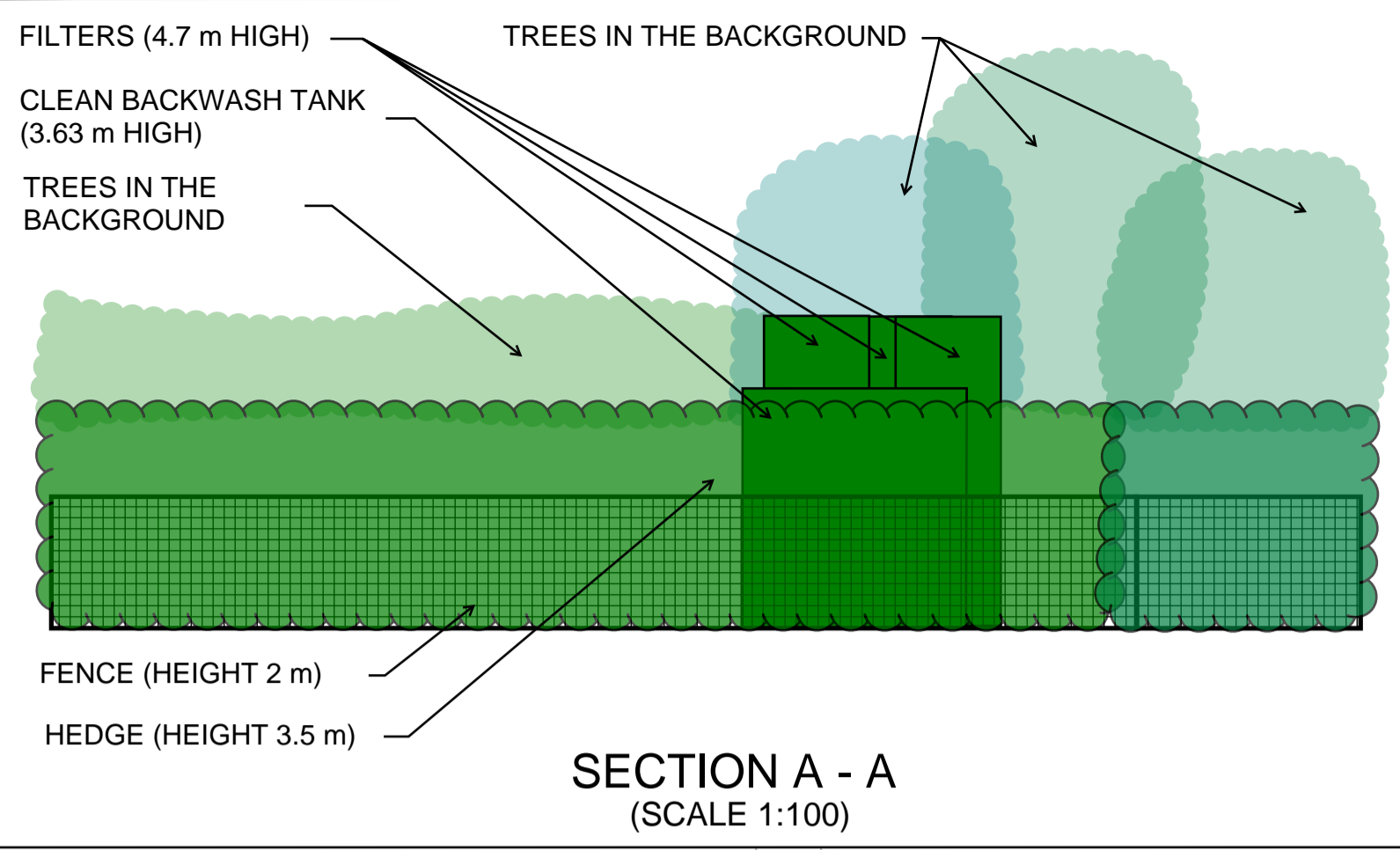
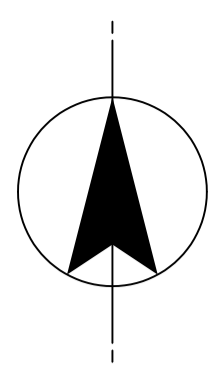
A handwritten signature in black ink, appearing to read 'J Beddard', written in a cursive style.

Joseph Beddard
Environmental Advisor
Southern Water

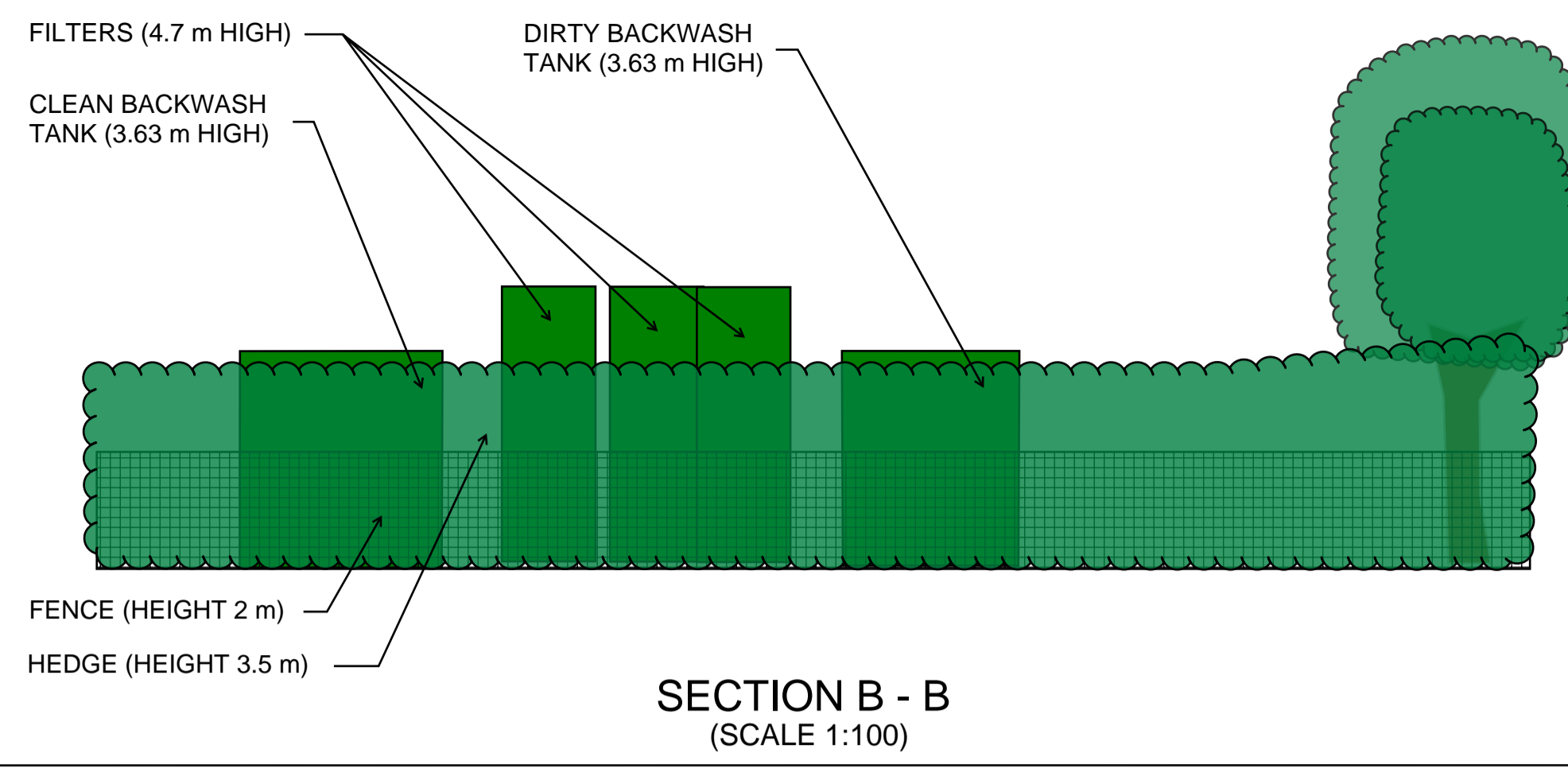


Appendices

Appendix A – Design Drawings



SECTION A - A
(SCALE 1:100)



SECTION B - B
(SCALE 1:100)

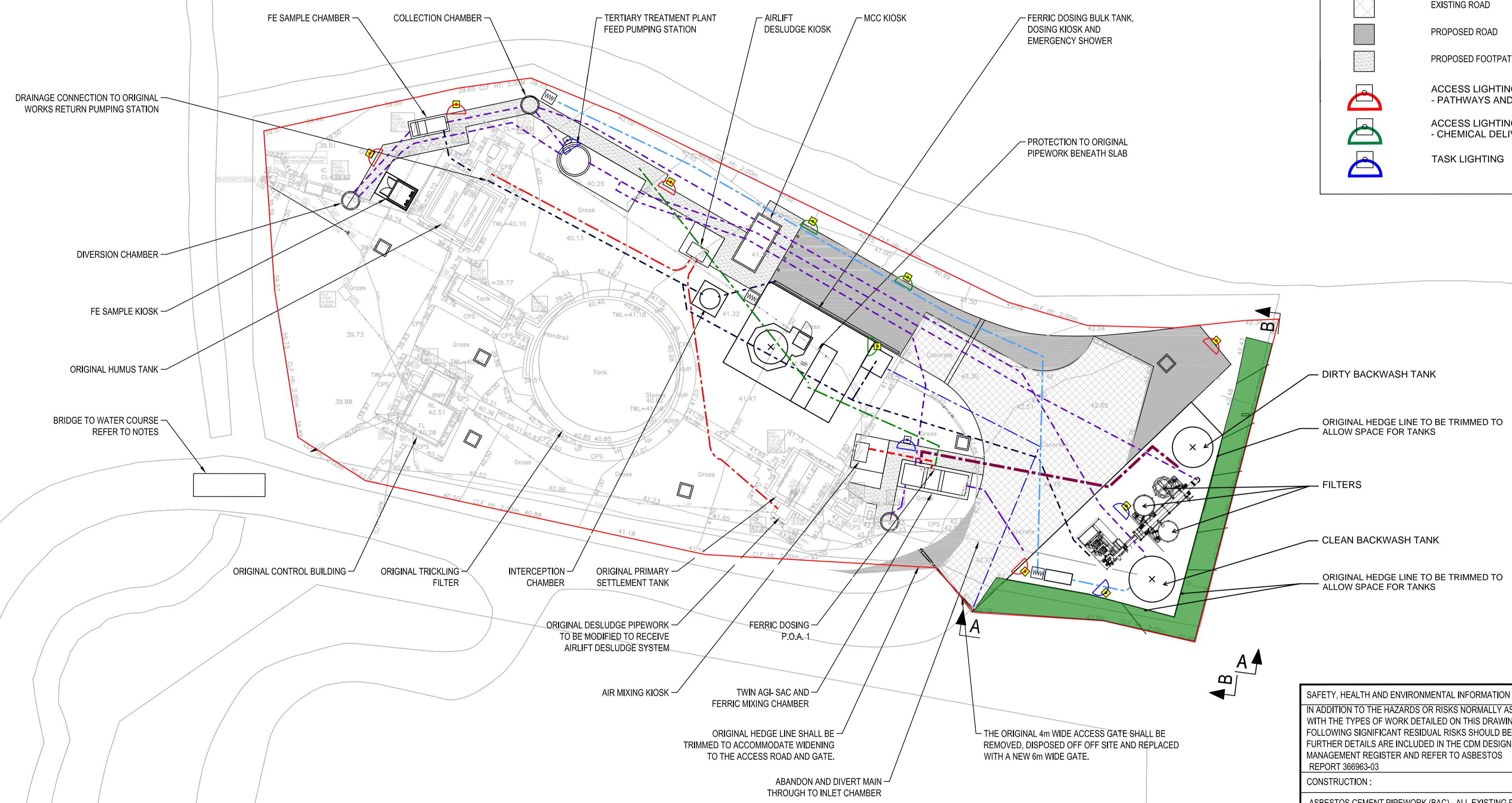
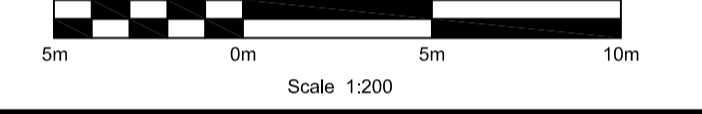
LEGEND

	SITE BOUNDARY
	NEW FERRIC DOSING PIPELINE
	NEW BELOW GROUND PROCESS PIPELINE
	NEW ABOVE GROUND PROCESS PIPELINE
	NEW WASHWATER PIPELINE
	NEW POTABLE WATER PIPELINE
	NEW AIR LINER DUCTS (BELOW GROUND)
	NEW DRAINAGE PIPEWORK
	NEW POWER CABLE DUCT
	NEW CONTROL CABLE DUCT
	NEW WASHWATER HOSE REEL
	NEW CHEMICAL DRAW PIT
	NEW ELECTRICAL DRAW PIT
	EXISTING ROAD
	PROPOSED ROAD
	PROPOSED FOOTPATH
	ACCESS LIGHTING - PATHWAYS AND ROADS
	ACCESS LIGHTING - CHEMICAL DELIVERY BAY
	TASK LIGHTING

- NOTES**
1. ALL DIMENSIONS IN MILLIMETRES (mm) AND ALL LEVELS IN METRES RELATIVE TO ORDNANCE DATUM (m OD) UNLESS SHOWN OTHERWISE.
 2. ALL POWER AND CONTROL DUCTS TO MAINTAIN 300mm SEGREGATION.
 3. ALL DUCTS SHALL BE LAID IN ACCORDANCE WITH THE RELEVANT CLAUSES OF CEWSI AND WIMES.
 4. ALL DRAW PITS SHALL BE IN ACCORDANCE WITH SW TYPICAL DETAIL A81945.1405.F
 5. THE ACCESS ROAD SHALL BE REINSTATED IN ACCORDANCE WITH SW TYPICAL DETAIL A81945.1702.E
 6. THE SERVICE CROSSINGS SHALL BE REINSTATED IN ACCORDANCE WITH SW TYPICAL DETAIL A81945.1703.E
 7. CONSTRUCTION MAKE UP AND WEIGHT LIMIT OF THE ACCESS BRIDGE IS UNKNOWN. REMEDIAL STRENGTHENING AND / OR TEMPORARY WORKS MAY BE REQUIRED.

REFERENCE

751159-MWX-ZZ-00-DR-C-00003	PROCESS PIPEWORK
751159-MWX-ZZ-00-DR-C-00004	GENERAL PIPEWORK
751159-MWX-ZZ-00-DR-C-00005	DUCTING ROUTING AND DRAW PITS
751159-MWX-ZZ-00-DR-C-00006	FE CHAMBER
751159-MWX-ZZ-00-DR-C-00007	STRUCTURES



CURRENT VERSION INFORMATION
Suitable for Information
INTERNAL COMMENTS CLOSED OUT, FIRST EXTERNAL ISSUE.

SKETCH

Purpose :
This sketch is an informal tool for communicating and collaborating on projects. It shall not be considered as a project output, part of a project output or as satisfying a contractual requirement. All details are indicative and subject to further design and collaboration.

Originator : J Siah

Sketch Name : Fulking WTW - Plan & Sections for Enabling

Date : 22/07/22

DATE	ORIG	CHKD	REV	APPR	REV	STS	REASON FOR ISSUE

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fax (01903) 691435

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and Binnies UK Limited
Joint Venture
Lewes Road, Falmer,
Brighton, East Sussex,
BN1 9PY

PROJECT TITLE
FULKING WTW-P REMOVAL

DRAWING TITLE
**FULKING WTW
SKETCH - PLAN & SECTIONS FOR ENABLING**

SITE UNIT MNEMONIC FULKINGX	SITE UNIT NO. 101741	MASTER SIZE A1
PRN 751159	SCALE 1:200	STATUS S2
S.W. DRAWING NO.		REVISION

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION
IN ADDITION TO THE HAZARDOUS OR RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, THE FOLLOWING SIGNIFICANT RESIDUAL RISKS SHOULD BE NOTED. FURTHER DETAILS ARE INCLUDED IN THE CDM DESIGN RISK MANAGEMENT REGISTER AND REFER TO ASBESTOS REPORT 366963-03

CONSTRUCTION :
ASBESTOS CEMENT PIPEWORK (BAC) - ALL EXISTING PIPEWORK MAYBE BAC. SAFE SYSTEMS OF WORK REQUIRED FOR CONNECTIONS TO EXISTING BAC PIPEWORK INCLUDING SAFE WASTE MANAGEMENT MEASURES IN PLACE TO REMOVE AND DISPOSE OFF SITE.
FOR FURTHER GUIDANCE PLEASE REFER TO CUTTING-ASBESTOS-CEMENT-PIPE.PDF (HSE.GOV.UK)
WEIGHT LIMIT ON EXISTING ACCESS BRIDGE UNKNOWN, FURTHER INVESTIGATION REQUIRED.

MAINTENANCE, CLEANING AND OPERATION :
NO SIGNIFICANT RISK IDENTIFIED AT THIS TIME

DECOMMISSIONING OR DEMOLITION :
ASBESTOS CEMENT PIPEWORK (BAC) - ALL EXISTING PIPEWORK MAYBE BAC. SAFE SYSTEMS OF WORK REQUIRED FOR CONNECTIONS TO EXISTING BAC PIPEWORK INCLUDING SAFE WASTE MANAGEMENT MEASURES IN PLACE TO REMOVE AND DISPOSE OFF SITE.
FOR FURTHER GUIDANCE PLEASE REFER TO CUTTING-ASBESTOS-CEMENT-PIPE.PDF (HSE.GOV.UK)

PROJECT

Fulking WTW

TITLE Sketch of Enabling
works required for
bridge installation

DRAWN: CM

DATE: 08/07/22

ALL DIMENSIONS IN
MILLIMETERS

SKETCH No: 2 -SK

REV. 0 01
PRN: 751159

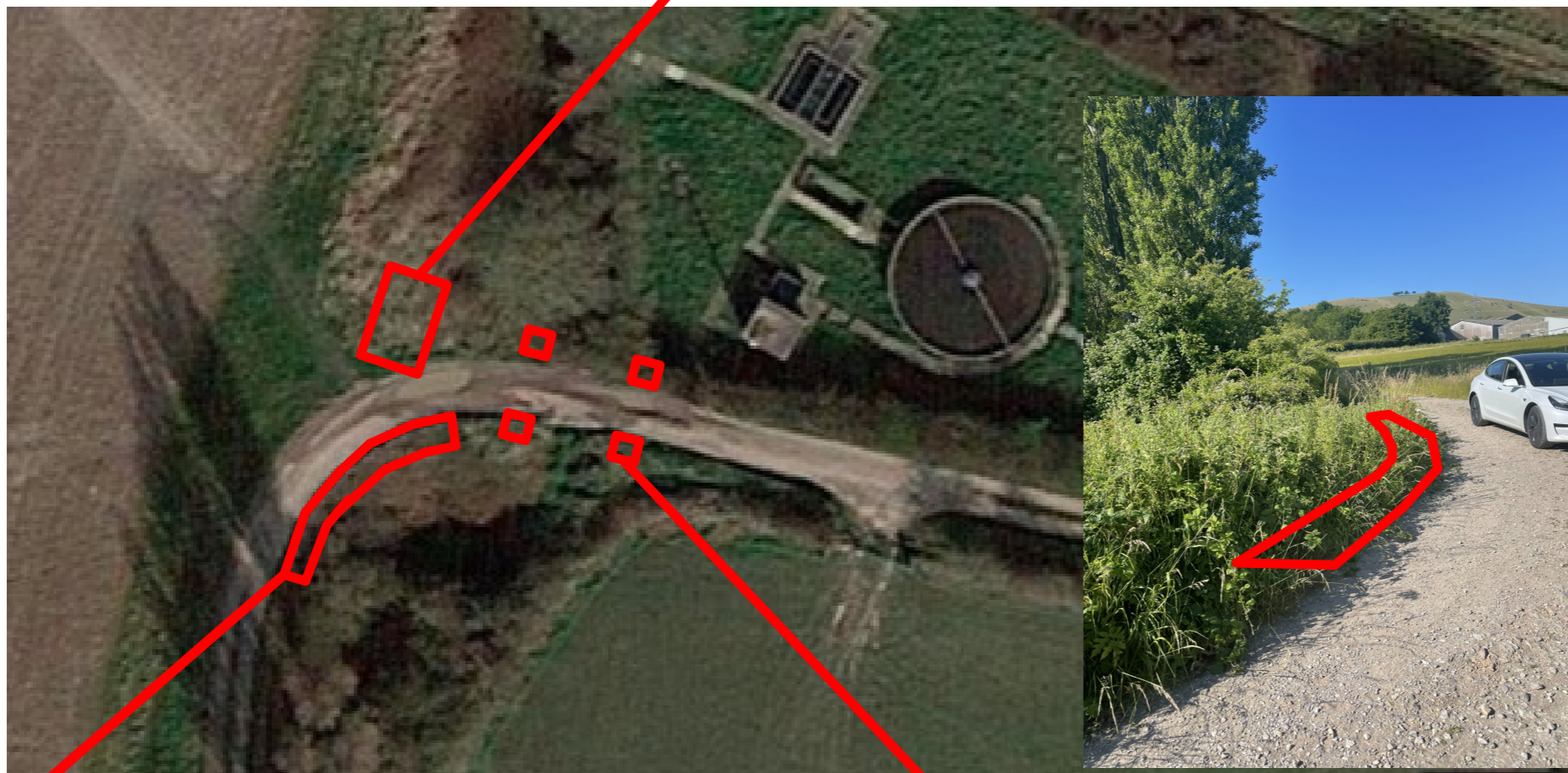


existing shrubs need
cutting back & topsoil
removed.

N



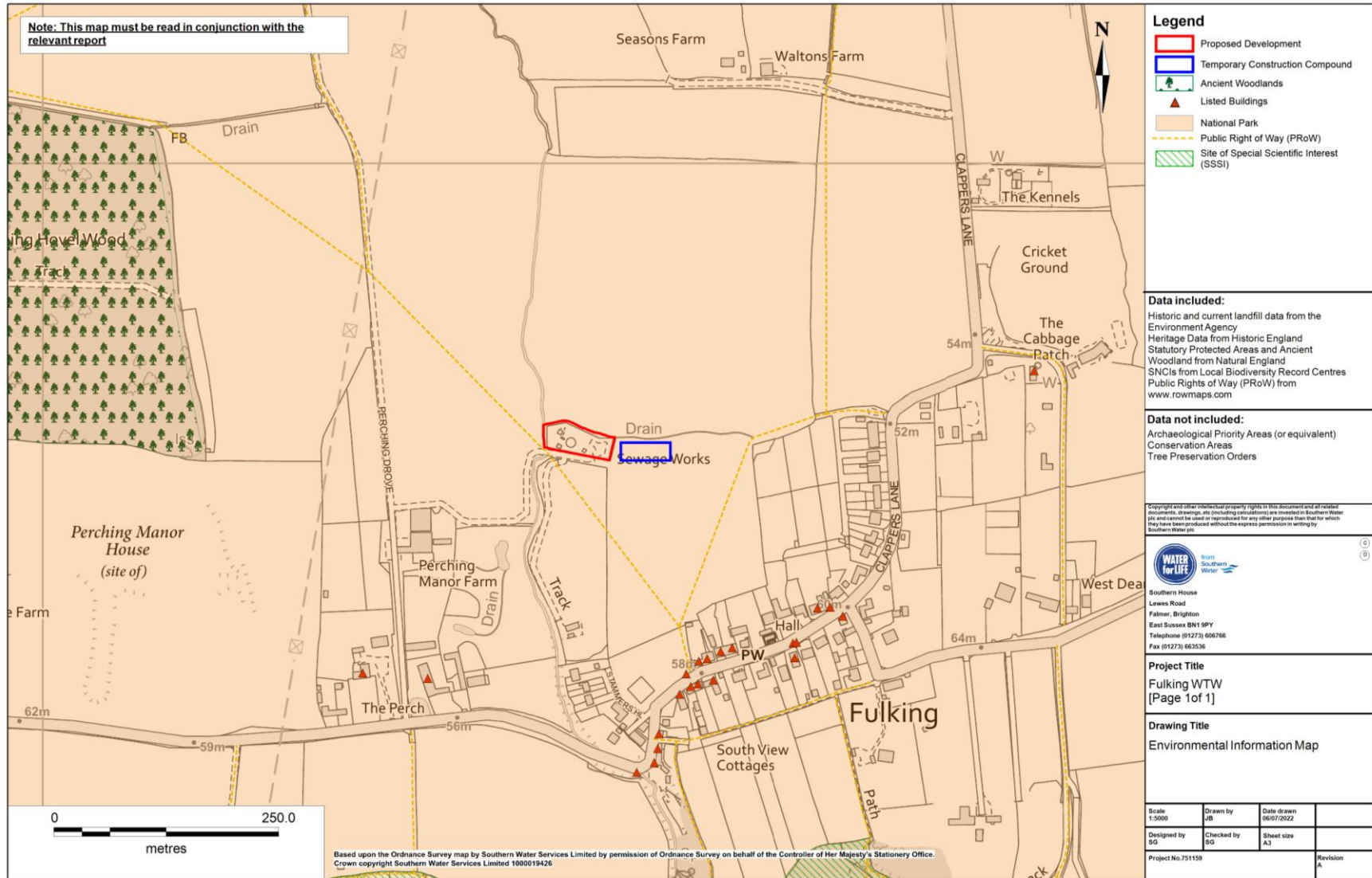
3.5m long strip
type 1 hardstanding
to enable front of
delivery lorry to park
side on to existing
access bridge



1m wide strip to widen bend enabling
delivery vehicle to turn

0.5m pads cleared and type 1
installed to facilitate 5m long
bog mats for bridge base

Appendix B – Environmental Information Map





Appendix C – Noise Report

**SOUTHERN WATER
SERVICES LTD**

**FULKING WATER
TREATMENT
WORKS, PERCHING
DROVE, FULKING,
WEST SUSSEX**

**BS 4142 SOUND
ASSESSMENT**

JULY 2022

2447W-SEC-00001-02

SOUTHERN WATER SERVICES LTD
FULKING WATER TREATMENT WORKS, PERCHING DROVE, FULKING,
WEST SUSSEX
BS 4142 SOUND ASSESSMENT

DOCUMENT REFERENCE: 2447W-SEC-00001-02

REVIEW AND AUTHORISATION			
Authored By Sam Geering	Position Acoustic Consultant	Signature 	Date 19/07/22
Reviewed By Alex Mabey	Position Technical Director	Signature 	Date 19/07/22
Checked By Tim Hegan	Position Senior Consultant	Signature 	Date 19/07/22
Approved By Rick Methold	Position Director	Signature 	Date 19/07/22

AMENDMENT HISTORY			
Issue	Status	Description	Date
01	Draft	Report for client comment	13/07/22
02	Final	Report for external issue	19/07/22

This report has been prepared using all reasonable skill and care within the resources agreed by the client. No responsibility is accepted for matters outside the terms and scope of the agreement under which this report has been prepared. Similarly no responsibility in any form is accepted for third party use of this report or parts thereof, the contents of which are confidential to the client.



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1. INTRODUCTION

1.1 Overview

- 1.1.1 Southdowns Environmental Consultants Ltd was commissioned in December 2021 by Southern Water Services Ltd (SWS) to undertake a sound assessment of the proposed operation of new plant associated with the upgrade of Fulking Water Treatment Works (WTW) located on Perching Drove in Fulking, West Sussex.
- 1.1.2 The sound assessment has been prepared to accompany an Environmental Impact Assessment (EIA) that will be prepared by Southern Water for the operation of the upgraded WTW.
- 1.1.3 The assessment method has followed the principles of the BS 4142:2014+A1:2019 [1] assessment methodology.
- 1.1.4 The sound levels and assessment criteria are summarised in Section 2 of this report. The Fulking WTW site is described in Section 3. A baseline sound survey undertaken in the vicinity of the WTW is described in Section 4, and the survey results are presented in Section 5. Details of the WTW plant sound modelling are presented in Section 6. The BS 4142 sound assessment is presented in Section 7 and the conclusions of the assessment are summarised in Section 8.
- 1.1.5 Figures and tables referred to in the report are presented in Appendix A and B, respectively.
- 1.1.6 Calibration certificates of the equipment used to carry out the baseline sound survey are presented in Appendix C.

1.2 Statement of Competency (*Requirement of BS 4142 Clause 5*)

- 1.2.1 James Green (student member of the IOA) undertook the baseline sound measurements. James is currently studying towards an MSc in Environmental and Architectural Acoustics at London Southbank University
- 1.2.2 Sam Geering (MIOA) undertook the sound modelling and authored this report. Sam has supported several sound assessments involving report authoring, sound measurements and calculations. Sam has completed an MSc in Environmental and Architectural Acoustics at London Southbank University.
- 1.2.3 The sound assessment calculations were checked by Tim Hegan (MIOA). Tim has over 6 years' experience in environmental acoustic consultancy and frequently undertakes sound modelling for BS 4142 type assessments, author's reports and undertakes calculation checks for QA purposes.
- 1.2.4 The report was reviewed by Alex Mabey (MIOA). Alex has over 18 years' experience of work in the field of environmental sound and vibration assessment and has worked on many projects where an assessment in accordance with the principles of BS 4142 was required.



2. SOUND LEVELS AND CRITERIA

2.1 Sound Levels

- 2.1.1 Sound is measured on a logarithmic scale in decibels (dB) because of the ears' sensitivity to a wide range of pressure changes. The sound pressure level (SPL) of a signal is denoted by the symbol L_p and defined by the equation $L_p = 10 \log (p/p_0)^2$ where p is the root mean square pressure of the signal and p_0 is the reference sound pressure (2×10^5 Pa).
- 2.1.2 The human auditory system is capable of detecting sounds over a frequency range of approximately 20 Hz to 20 kHz. Because the ear is most sensitive to sounds with frequencies between 1 and 5 kHz, an A-weighting network is used to reflect the differential sensitivity of human hearing to sounds of different frequency. The A-weighted sound pressure level, L_{pA} , is measured on a scale denoted by the metric dB(A).
- 2.1.3 The dB(A) level is commonly used for the measurement and assessment of environmental sound due to the relationship between the subjective impression of the auditory strength of a sound, otherwise known as loudness, and the A-weighted sound pressure level of that sound. A change in 3 dB is the minimum perceptible change in event sound levels under normal everyday listening conditions, whilst a 10 dB increase or decrease in the sound pressure level of a steady sound generally corresponds to a perceived doubling or halving of loudness.
- 2.1.4 An indication of the range of sound pressure levels commonly found in the unoccupied environment is given below:

<u>Location</u>	<u>L_p dB(A)</u>
Normal threshold of hearing	-10 to 20
Music halls and theatres	20 to 30
Living rooms and offices	30 to 50
Inside motor vehicles	50 to 70
Industrial premises	70 to 100
Burglar alarms at 1 m	100 to 110
Jet aircraft on take-off	110 to 130
Threshold of pain	130 to 140

- 2.1.5 The $L_{A90,T}$, or background sound level, is defined by the A-weighted sound pressure level that is exceeded by the residual sound at the assessment location for 90% of a given time interval, T. This does not reflect the occurrence of transient and/or higher sound level events and is generally governed by continuous or semi-continuous sounds. Due to the varying acoustical environment, $L_{A90,T}$ is normally defined separately for day and night-time periods. Other percentiles are also sometimes used to describe the levels of ambient sound exceeded for different periods of time. The $L_{A50,T}$ and $L_{A10,T}$ sound levels denote the level of ambient sound exceeded for 50 and 10% of the time, T, respectively. The $L_{Amax,F}$ sound level denotes the maximum instantaneous sound level in any given period of time obtained using the FAST time weighting.
- 2.1.6 The equivalent continuous sound pressure level is denoted by the symbol $L_{Aeq,T}$ and is defined as the value of the A-weighted sound pressure level of continuous steady sound that, within a specified time interval, has the same mean-squared sound pressure as a sound that varies with time. This average sound level is used in the UK for the measurement of sound from many sources (including industry, construction, railways and aircraft) and is widely used for the measurement of ambient sound, which comprises sound from all sources in the environment.



2.1.7 Community responses to environmental sound sources are dependent on both acoustic and non-acoustic factors. The acoustic factors include absolute sound level, changes to, or exceedances of, background and residual sound levels, as well as the characteristic features, time, duration and intermittency of the sound. Noise is defined as unwanted sound.

2.2 National Noise Policy and Planning Policy Framework

Noise Policy Statement for England (NPSE)

2.2.1 The Noise Policy Statement for England (March 2010) [2] sets out the long-term vision of Government noise policy.

2.2.2 The vision of the NPSE is to 'Promote good health and a good quality of life through the effective management and control of noise within the context of Government policy on sustainable development'. This vision is supported by three key aims:

- avoid significant adverse impacts on health and quality of life;
- mitigate and reduce to a minimum other adverse impacts on health and quality of life; and
- where possible, contribute to the improvement of health and quality of life.

2.2.3 The NPSE applies to most forms of noise, including environmental noise, neighbour noise and neighbourhood noise, but not occupational noise in the workplace.

2.2.4 The NPSE has adopted the following concepts to help consider whether noise is likely to have a 'significant adverse' or 'adverse' impact on health and quality of life:

NOEL – No Observed Effect Level

This is the level below which no effect can be detected. In simple terms, below this level, there is no detectable effect on health and quality of life due to noise.

LOAEL – Lowest Observed Adverse Effect Level

This is the level above which adverse effects on health and quality of life can be detected.

SOAEL – Significant Observed Adverse Effect Level

This is the level above which significant adverse effects on health and quality of life occur.

2.2.5 The NPSE goes on to state that:

"it is not possible to have a single objective noise-based measure that defines SOAEL that is applicable to all sources of noise in all situations. Consequently, the SOAEL is likely to be different for different noise sources, for different receptors and at different times. It is acknowledged that further research is required to increase our understanding of what may constitute a significant adverse impact on health and quality of life from noise. However, not having specific SOAEL values in the NPSE provides the necessary policy flexibility until further evidence and suitable guidance is available."



National Planning Policy Framework

- 2.2.6 The Government's National Planning Policy Framework (NPPF) was published in March 2012 [3] and was last revised in July 2021 [4]. The document sets out the Government's planning policy for England and how it should be applied. The NPPF replaced a number of planning policy guidance documents, including the now archived Planning Policy Guidance 24: Planning and Noise.
- 2.2.7 The NPPF defines the Government's planning policy for England and sets out the framework within which local authorities should prepare their local and neighbourhood plans, reflecting the needs and priorities of their communities.
- 2.2.8 The main references to noise in the NPPF are found in paragraphs 174 and 185, where it states that:

" 174. Planning policies and decisions should contribute to and enhance the natural and local environment by:...

- *preventing new and existing development from contributing to, being put at unacceptable risk from, or being adversely affected by, unacceptable levels of soil, air, water or noise pollution or land instability;...*

"185. Planning policies and decisions should also ensure that new development is appropriate for its location taking into account the likely effects (including cumulative effects) of pollution on health, living conditions and the natural environment, as well as the potential sensitivity of the site or the wider area to impacts that could arise from the development. In doing so they should:

- *mitigate and reduce to a minimum potential adverse impacts resulting from noise from new development – and avoid noise giving rise to significant adverse impacts on health and the quality of life;*
- *identify and protect tranquil areas which have remained relatively undisturbed by noise and are prized for their recreational and amenity value for this reason; and*
- *limit the impact of light pollution from artificial light on local amenity, intrinsically dark landscapes and nature conservation."*

- 2.2.9 In the preparation of local plans, the NPPF specifies that local planning authorities should:

"set out criteria or requirements to ensure that permitted and proposed operations do not have unacceptable adverse impacts on the natural and historic environment or human health, taking into account the cumulative effects of multiple impacts from individual sites and/or a number of sites in a locality;

when developing noise limits, recognise that some noisy short-term activities, which may otherwise be regarded as unacceptable, are unavoidable to facilitate minerals extraction;"



Planning Practice Guidance - Noise

2.2.10 Planning Practice Guidance (PPG) on noise [5] was issued in March 2014 and was last revised in July 2019. This web-based guidance advises local planning authorities to take into account the acoustic environment, and in doing so consider the following:

- whether or not a significant adverse effect is occurring or likely to occur;
- whether or not an adverse effect is occurring or likely to occur; and
- whether or not a good standard of amenity can be achieved.

2.2.11 The PPG includes examples of how to recognise when noise could be a concern and provides example outcomes to which the Observed Effect Levels can apply. The PPG noise exposure hierarchy is presented in 0, based on the likely average response, along with example outcomes.

2.2.12 While it is acknowledged that planning and nuisance regimes are separate entities, the hierarchy table does provide useful information regarding how the concept of SOAELs and LOAELs, introduced through the NPSE, could be applied and does allow for subjective observations to be considered in the context of potential effect levels. The presence of an “Effect Level” does not infer whether a nuisance is or is not present.

Perception	Examples of Outcomes	Increasing Effect Level	Action
No Observed Effect Level			
Not present	No Effect	No Observed Effect	No specific measures required
No Observed Adverse Effect Level			
Present and not intrusive	Noise can be heard, but does not cause any change in behaviour, attitude or other physiological response. Can slightly affect the acoustic character of the area but not such that there is a change in the quality of life.	No Observed Adverse Effect	No specific measures required
Lowest Observed Adverse Effect Level			
Present and intrusive	Noise can be heard and causes small changes in behaviour, attitude or other physiological response, e.g. turning up volume of television; speaking more loudly; where there is no alternative ventilation, having to close windows for some of the time because of the noise. Potential for some reported sleep disturbance. Affects the acoustic character of the area such that there is a small actual or perceived change in the quality of life.	Observed Adverse Effect	Mitigate and reduce to a minimum
Significant Observed Adverse Effect Level			
Present and disruptive	The noise causes a material change in behaviour, attitude or other psychological response, e.g. avoiding certain activities during periods of intrusion; where there is no alternative ventilation, having to keep windows closed most of the time because of the noise. Potential for sleep disturbance resulting in difficulty in getting to sleep, premature awakening and difficulty in getting back to sleep. Quality of life diminished due to change in acoustic character of the area.	Significant Observed Adverse Effect	Avoid
Present and very disruptive	Extensive and regular changes in behaviour, attitude or other physiological response and/or an inability to mitigate effect of noise leading to psychological stress, e.g. regular sleep deprivation/awakening; loss of appetite, significant, medically definable harm, e.g. auditory and non-auditory	Unacceptable Adverse Effect	Prevent

TABLE 2.1 PLANNING PRACTICE GUIDANCE NOISE EXPOSURE HIERARCHY



2.2.13 The PPG guidance states that “where external amenity spaces are an intrinsic part of the overall design, the acoustic environment of those spaces should be considered so that they can be enjoyed as intended.”

2.3 Local Authority Criteria

2.3.1 The proposed development lies within the administrative area of Mid Sussex District Council (MSDC) area of South Downs National Park. MSDC and other local authorities in Sussex have developed guidance on the assessment of noise in response to the introduction of the NPPF and other associated national noise planning policy. This guidance is described in Planning Noise Advice Document: Sussex (last updated in March 2021).

2.3.2 The information in the Planning Noise Advice Document aims to provide advice for developers and their consultants when making a planning application in East and West Sussex.

2.3.3 The aims of the guidance document include:

- to complement the noise policy aims set out in the NPSE;
- to provide clear and consistent guidance to developers on the level of information that will be required to be submitted with planning applications for noise generating developments or noise sensitive developments;
- to provide existing standards that should be referred to when undertaking noise assessments; and
- to highlight the points that need to be considered and addressed prior to making a planning application.

2.3.4 In relation to new industrial and commercial sound sources, the guidance states:

“3.2.1 The rating level of the industrial or commercial sound source should, where practicable, achieve a level no greater than the representative background sound, when measured in accordance with BS 4142:2014 + A1: 2019....”

2.4 British Standard BS 4142:2014+A1:2019

2.4.1 Guidance on the rating and assessing of sound of an industrial and/or commercial nature is contained in British Standard BS 4142:2014+A1:2019[1] ‘Methods for rating and assessing industrial and commercial sound’

2.4.2 The standard states that:

“This standard is applicable to the determination of the following levels at outdoor locations:

- a) rating levels for sources of sound of an industrial and/or commercial nature; and*
- b) ambient, background and residual sound levels*

for the purposes of:

- 1) investigating complaints;*



- 2) *assessing sound from proposed, new, modified or additional source(s) of sound of an industrial and/or commercial nature; and*
- 3) *assessing sound at proposed new dwellings or premises used for residential purposes.”*

2.4.3 The determination of sound amounting to a nuisance is beyond the scope of BS 4142:2014+A1:2019.

2.4.4 The significance of sound of an industrial and/or commercial nature depends upon the margin by which the rating level of the specific sound source exceeds the background sound level and the context in which the sound occurs.

2.4.5 Typically, the greater the difference between rating level and background sound level, the greater the magnitude of the impact. BS 4142+A1:2019 provides the following guidance when assessing the difference in the rating level and background sound assessment level:

- a difference of around +10 dB or more is likely to be an indication of a significant adverse impact, depending on the context;
- a difference of around +5 dB is likely to be an indication of an adverse impact, depending on context; and
- the lower the rating level is relative to the measured background sound level, the less likely it is that the specific source will have an adverse impact or a significant adverse impact. Where the rating level does not exceed the background sound level, this is an indication of the specific sound source having a low impact, depending on the context.

2.4.6 Certain acoustic features can increase the significance of the impact over that expected from a basic comparison between specific sound level and the background sound level. These features include tonality and impulsivity, as well as additional characteristics and intermittency of the sound.

2.4.7 Where appropriate, a rating penalty for sound based on a subjective assessment of its characteristics should be established. In other circumstances an objective appraisal of tonal and/or impulsive characteristics may be appropriate.

2.4.8 An individual's response to sound can be subjective and the significance of a sound level impact can depend on such factors as the margin by which a sound exceeds the background sound level, its absolute level, time of day and change in the acoustic environment, as well as local attitudes to the source of the sound and the character of the neighbourhood. BS 4142:2014+A1:2019 therefore recognises the importance of the context in which a sound occurs and has taken into account the acoustical terms 'sound' and 'noise' in its development. BS 4142+A1:2019 refers to 'sound' as being measured by a sound level meter or other measuring system. The Standard refers to 'noise' as relating to a human response and is routinely described as unwanted sound, or sound that is considered undesirable or disruptive.



3. SITE DESCRIPTION AND PROPOSED WTW UPGRADE

3.1 Site Description

- 3.1.1 The Fulking WTW is located off Perching Drove, approximately 300 m to the north of the village of Fulking in West Sussex.
- 3.1.2 The location of the WTW and the immediate surrounding area is displayed on Figure A1 of Appendix A.
- 3.1.3 The nearest residential properties to the WTW are residential dwellings located approximately 225 to 250 m to the south and south-west of the WTW on Clappers Lane and Edburton Road.
- 3.1.4 The area immediately surrounding the WTW consists of farmland and open fields.

3.2 Proposed WTW Upgrade

3.2.1 The layout of the plant associated with the upgrade of the Fulking WTW is indicated on Figure A2 of Appendix A.

3.2.2 The upgrade includes the installation of the following sound generating equipment:

- 1 no. tertiary treatment plant feed pumping station – submersible pump;
- 1 no. MCC kiosk;
- 1 no. air lift de-sludge kiosk;
- 1 no. ferric dosing kiosk;
- 1 no. air mixing kiosk;
- 1 no. agi-sac and ferric mixing chamber;
- 1 no. wash water booster; and
- Tertiary treatment plant backwash system including:
 - 1 no. blower;
 - 1 no. backwash pump; and
 - 1 no. compressor.

3.2.3 The following plant is also proposed to be installed onsite, however SWS has advised that this equipment does not generate sound, and has therefore not been included in this sound assessment:

- 1 no. FE kiosk;
- 1 no. FE sample chamber;
- 1 no. ferric storage tank;
- Fill point kiosk;
- 3 no. tertiary treatment plant filters;
- 1 no. dirty backwash tank; and
- 1 no. clean backwash tank.



4. BASELINE SOUND SURVEY

4.1 Sound Survey

4.1.1 A baseline sound survey was undertaken in the vicinity of the nearest residential properties to the WTW in February and March 2022. The survey comprised of unattended continuous sound monitoring over a 28-day period and attended sound monitoring during a weekday night-time period.

4.1.2 Details of the sound monitoring are presented in the following sub-sections.

4.2 Attended Sound Survey

4.2.1 Attended sound measurements were made at monitoring locations ST1, ST2 and ST3 shown on Figure A3 of Appendix A. These measurements were obtained between 23:30 hrs on Tuesday 8th and 03:15 hrs on Wednesday 9th February 2022.

4.2.2 All sound measurements were made in free-field conditions with the microphone positioned 1.5 m above local ground.

4.2.3 The sound level meter used to undertake these measurements was a Class 1 Rion NL-52 precision integrating sound level meter, which was set to measure sound pressure levels with the 'Fast' time weighting and A-weighting frequency network applied to the sound pressure level measurements.

4.2.4 All attended measurements were made over sample 15-minute periods.

4.3 Unattended Sound Monitoring

4.3.1 Unattended sound monitoring was undertaken at the location listed below in Table 4.1 and labelled as LT1 on Figure A3 of Appendix A.

4.3.2 The sound monitoring at LT1 was undertaken between 11:15 hrs on Tuesday 8th February and 14:30 hrs on Tuesday 8th March 2022.

4.3.3 The sound monitoring equipment was located approximately 260m to the south-west of the Fulking WTW in the rear garden of Stable Cottage. The monitor was positioned at a location considered to be representative of the sound environment of the residential properties located in the vicinity of Stable Cottage on Perch Drove and Edburton Road.

Monitoring Location ID	Location	Receptor Type	Monitoring Period	
			Start	End
LT1	Rear garden of Stable Cottage, Edburton Road, Fulking	Residential	08/02/2022 11:15	08/03/2022 14:30

TABLE 4.1: BASELINE UNATTENDED SOUND MONITORING LOCATION

4.3.4 The sound measurements at LT1 were obtained using a Rion NL-52 sound level meter. The meter was fitted with a weatherproof windshield. The sound level meter was powered by gel cell batteries and stored inside a weatherproof security box.

4.3.5 The microphone was positioned 1.5 m above local ground in free-field conditions.



4.3.6 Consecutive 15-minute measurements of sound indices which included $L_{Amax,F}$, $L_{Aeq,15min}$ and $L_{A90,15min}$ sound levels were measured over the 28-day monitoring period.

4.4 Field Calibration

4.4.1 The sound level meters used for the unattended and attended monitoring were calibrated at the start and end of the surveys using a Rion NC-74 Class 1 Acoustic Calibrator to generate a calibration level of 94.0 dB at 1 kHz.

4.4.2 The field calibration checks made on the sound level meters indicate that there was no significant drift in the measurements obtained during the surveys.

4.4.3 Copies of the laboratory calibration certificates for sound level meters and acoustic calibrators used for the survey are presented in Appendix C of this report.

4.5 Weather Conditions

4.5.1 The weather during the night-time attended monitoring on Tuesday 8th February 2022 was cloudy with light rain from 01:30 onwards. Sample wind speeds measured using an anemometer were $< 1 \text{ ms}^{-1}$. Air temperatures were around 9°C and relative humidity was around 69 %.

4.5.2 A Davis Vantage Vue Weather Station was used to measure meteorological data for the unattended monitoring period.

4.5.3 A log of the weather conditions during the unattended monitoring period is summarised in Table B1 of Appendix B.

4.5.4 As indicated by the meteorological data presented in Table B1, average wind speeds were generally measured to be below 3 ms^{-1} . There were periods of rainfall during the monitoring period.

4.5.5 From a review of the unattended survey data, the rainfall and/or elevated wind speeds may have influenced the sound levels measured at LT1 during certain periods. The data which have been excluded from the analysis of the survey data are indicated on the graphical plot of the unattended sound data presented in Figure A4 in Appendix A.



5. SOUND SURVEY RESULTS

5.1 Attended Survey Results

5.1.1 The results of the attended measurements obtained at ST1 to ST3 are tabulated in Table B2 of Appendix B and summarised below in Table 5.1.

Monitoring Location ID	Measurement Start-time	Dur. (mins)	Measured Sound Pressure Level, dB re. 2×10^{-5} Pa.		
			L _{Amax,F}	L _{Aeq,T}	L _{A90,T}
ST1 (Edburton Road)	00:00	15	62.2	30.4	22.2
	01:32	15	60.8	35.0	25.2
	02:45	15	54.4	32.0	25.5
	<i>Cumul.^[1]</i>		62.2	32.9	24.3
ST2 (Perching Drove)	23:30	15	56.3	31.4	24.5
	01:00	15	53.4	32.8	26.5
	03:15	15	54.1	33.9	28.0
	<i>Cumul.^[1]</i>		56.3	32.8	26.3
ST3 (Clappers Lane)	00:30	15	65.9	34.9	27.7
	02:00	15	49.5	33.8	28.6
	02:15	15	54.5	32.0	25.5
	<i>Cumul.^[1]</i>		65.9	33.7	27.3

TABLE 5.1: SUMMARY OF ATTENDED SOUND MEASUREMENT RESULTS

Note:

[1] The average L_{A90,15min} values have been obtained by arithmetic averaging, whilst the average L_{Aeq,15min} values have been obtained by logarithmic averaging.

- 5.1.2 Sources of environmental sound observed during the attended survey included wildlife and occasional distant and local road traffic.
- 5.1.3 Sound from the existing plant operating on the WTW was subjectively not audible during the monitoring periods at ST1, ST2 and ST3.
- 5.1.4 The light rain occurred during the attended monitoring, from 01:30 onwards, does not appear to have significantly affected the sound levels measured after 01:30 hrs.

5.2 Unattended Sound Survey Results

- 5.2.1 The results of the unattended sound monitoring at LT1 are presented graphically on Figure A4 of Appendix A and tabulated in Table B3 of Appendix B.
- 5.2.2 A summary of the unattended monitoring results is presented overleaf in Table 5.2.
- 5.2.3 Daytime L_{Aeq,16hr} and night-time L_{Aeq,8hr} ambient sound levels presented in Tables 5.2 have been calculated using logarithmic averaging, whilst mean L_{Amax,F} and L_{A90,T} sound levels have been calculated using arithmetic averaging. The range of 15-minute values over which each logarithmic or mean value has been calculated is shown in parenthesis.



Day of Meas.	Date	Measured Sound Levels, dB re. 2×10^{-5} Pa.					
		Daytime (07:00 hrs to 23:00 hrs)			Night-time (23:00 hrs to 07:00 hrs)		
		L _{Amax,F}	L _{Aeq,16hr}	L _{A90,16hr}	L _{Amax,F}	L _{Aeq,8hr}	L _{A90,8hr}
Tue ^[2]	08-Feb-22	63 (40-86)	46 (32-56)	33 (29-38)	48 (38-87)	42 (30-53)	30 (28-38)
Wed	09-Feb-22	67 (37-90)	50 (28-59)	32 (25-39)	47 (34-74)	39 (25-49)	29 (24-41)
Thu	10-Feb-22	65 (42-87)	48 (32-57)	34 (29-44)	45 (35-73)	41 (28-52)	31 (25-43)
Fri	11-Feb-22	65 (36-86)	49 (27-58)	34 (25-45)	49 (38-71)	39 (26-51)	29 (24-39)
Sat	12-Feb-22	62 (46-80)	45 (36-53)	37 (33-40)	54 (45-75)	41 (35-49)	36 (31-40)
Sun	13-Feb-22	66 (56-78)	50 (45-53)	44 (38-48)	49 (40-79)	43 (29-51)	31 (27-42)
Mon	14-Feb-22	65 (40-81)	47 (30-54)	34 (29-41)	44 (32-71)	40 (28-51)	30 (28-38)
Tue	15-Feb-22	66 (48-91)	49 (35-58)	39 (32-47)	52 (42-75)	45 (33-54)	37 (31-44)
Wed	16-Feb-22	67 (49-86)	52 (43-59)	44 (35-54)	56 (46-89)	55 (38-70)	38 (32-43)
Thu	17-Feb-22	65 (37-83)	48 (31-57)	36 (29-44)	61 (40-90)	49 (32-56)	39 (28-48)
Fri	18-Feb-22	69 (51-82)	61 (42-69)	50 (37-65)	53 (37-76)	45 (29-56)	34 (27-38)
Sat	19-Feb-22	66 (42-77)	51 (32-57)	40 (30-54)	55 (47-78)	49 (36-61)	38 (32-44)
Sun	20-Feb-22	68 (59-81)	56 (49-64)	50 (42-59)	58 (39-82)	49 (31-59)	41 (30-47)
Mon	21-Feb-22	65 (38-80)	55 (30-62)	42 (28-54)	47 (33-88)	49 (27-63)	29 (26-39)
Tue	22-Feb-22	68 (42-88)	53 (31-67)	36 (28-45)	44 (33-76)	44 (27-56)	29 (26-39)
Wed	23-Feb-22	67 (47-103)	60 (35-77)	36 (32-46)	54 (41-76)	44 (30-54)	34 (29-43)
Thu	24-Feb-22	65 (43-83)	49 (31-56)	36 (29-44)	51 (44-75)	43 (32-56)	32 (28-36)
Fri	25-Feb-22	66 (43-81)	48 (31-55)	34 (27-41)	49 (30-86)	51 (26-65)	27 (25-35)
Sat	26-Feb-22	64 (50-76)	47 (37-57)	35 (32-39)	59 (54-78)	44 (40-50)	38 (36-41)
Sun	27-Feb-22	62 (45-102)	57 (33-75)	38 (30-45)	48 (37-80)	45 (29-59)	29 (27-35)
Mon	28-Feb-22	70 (53-86)	51 (38-62)	35 (31-38)	48 (39-87)	40 (30-53)	30 (28-31)
Tue	01-Mar-22	66 (38-90)	50 (31-59)	33 (28-39)	48 (34-70)	36 (25-46)	27 (24-31)
Wed	02-Mar-22	64 (41-87)	48 (31-57)	35 (27-44)	48 (35-70)	37 (28-46)	29 (25-31)
Thu	03-Mar-22	65 (38-86)	49 (31-58)	35 (27-45)	47 (36-70)	34 (26-42)	26 (24-29)
Fri	04-Mar-22	62 (43-80)	46 (33-53)	36 (27-40)	52 (45-61)	40 (35-43)	35 (31-40)
Sat	05-Mar-22	64 (50-78)	49 (38-53)	42 (35-48)	54 (40-70)	47 (29-53)	37 (27-48)
Sun	06-Mar-22	65 (41-81)	47 (30-54)	35 (28-41)	46 (32-74)	37 (28-47)	29 (28-32)
Mon	07-Mar-22	64 (37-91)	49 (30-58)	38 (29-47)	54 (42-78)	44 (33-56)	36 (31-44)
Tue ^[2]	08-Mar-22	63 (42-86)	51 (35-59)	38 (32-44)	-	-	-
Average Values		65 (61-69)	50 (45-61)	38 (32-50)	51 (44-61)	45 (39-55)	33 (27-41)
Average Values exc. Adverse Weather		65 (61-69)	49 (45-60)	36 (32-44)	51 (44-61)	45 (39-55)	32 (27-39)

TABLE 5.2: SUMMARY OF UNATTENDED SOUND MONITORING RESULTS AT LT1 – STABLE COTTAGE, EDBURTON ROAD, FULKING

Notes:

[1] the range of 15-minute levels measured during the monitoring periods are shown in parenthesis;

[2] incomplete daytime periods due to equipment set-up / retrieval; and

[3] cells shaded grey indicate day/night time periods when weather may have influenced the measured sound levels.



- 5.2.4 The results of the unattended sound monitoring show that during the daytime periods excluding adverse weather, ambient sound levels ranged between 45 and 60 dB $L_{Aeq,16hr}$, with a mean level of 49 dB $L_{Aeq,16hr}$.
- 5.2.5 Mean background sound levels measured during the daytime periods, excluding adverse weather, ranged between 32 and 44 dB $L_{A90,16hrs}$. The overall mean 16-hour daytime background sound level measured over the 28-day monitoring period was 36 dB $L_{A90,16hr}$.
- 5.2.6 During the night-time periods, ambient $L_{Aeq,8hr}$ sound levels ranged between 39 and 55 dB $L_{Aeq,8hr}$ with an overall mean value of 45 dB $L_{Aeq,8hr}$.
- 5.2.7 Mean background sound levels measured during the night-time periods, excluding adverse weather, ranged between 27 and 39 dB $L_{A90,8hrs}$ with an overall mean value of 32 dB $L_{A90,8hrs}$ obtained over the 28-day monitoring period.

5.3 Derivation of Background Sound Assessment Levels

- 5.3.1 The results of the unattended sound monitoring at LT1 provide an indication of the diurnal variation in sound levels in the vicinity of the WTW, whilst the short-term attended sound measurements provide an indication of the variation in sound levels between the unattended monitoring location and the attended monitoring locations ST1, ST2 and ST3.
- 5.3.2 A histogram of the background $L_{A90,T}$ sound levels measured at LT1 is presented in Figures A5 of Appendix A.
- 5.3.3 Statistical analysis of the $L_{A90,15min}$ sound levels measured at LT1 shows the modal value of the $L_{A90,15min}$ sound data measured during the daytime periods to be 35 dB $L_{A90,15min}$ and the modal value of the $L_{A90,15min}$ sound data measured during the night-time periods to be 29 dB $L_{A90,15min}$.
- 5.3.4 Table 5.3 below presents a comparison of the sample $L_{A90,T}$ sound levels measured at the ST attended locations with the $L_{A90,15min}$ sound levels measured at LT1 during coincident measurement periods.

Measurement Time	Background Sound Level, dB $L_{A90,15min}$			
	LT1	ST1	ST2	ST3
23:30	28	-	25	-
00:00	30	22	-	-
00:30	30	-	-	28
01:00	29	-	27	-
01:30	31	26	-	-
02:00	30	-	-	29
02:15	31	-	-	32
02:45	30	26	-	-
03:15	30	-	28	-
<i>Avg. Difference</i>	-	-6	-2	-1

TABLE 5.3: COMPARISON OF BACKGROUND SOUND LEVELS MEASURED AT LT1 AND THE ATTENDED LOCATIONS (ST1 – ST3)



- 5.3.5 At ST1 a mean difference of -6 dB in the $L_{A90,15\text{min}}$ levels was measured. At ST2 a difference of -2 dB was measured and at ST3 a difference of -1 dB was measured in the $L_{A90,15\text{min}}$ levels.
- 5.3.6 The level differences shown in Table 5.3 have been used as a basis to derive background sound assessment levels at the receptor positions.
- 5.3.7 The resulting background sound assessment levels are presented in Table 6.1 in Section 6.1 overleaf, where the calculation receptor locations are defined.



6. SOUND MODELLING

6.1 Sound Model Calculations

- 6.1.1 A sound model has been constructed to calculate the propagation of sound away from the new plant to be installed at the Fulking WTW and to calculate the plant sound levels at the nearest residential receptors.
- 6.1.2 The sound modelling has been undertaken using the SoundPLAN sound modelling software. SoundPLAN is a propriety software package which allows the calculation of sound levels using acoustical ray-tracing techniques through implementing the prediction procedure detailed in ISO 9613-2: 1996 [6].
- 6.1.3 ISO 9613-2 provides a method of calculation for predicting the attenuation of sound during propagation outdoors. The environmental sound propagation from source to receiver position is calculated based upon the following acoustic algorithm:

$$L_{fT}(DW) = L_w + D_c - A$$

where:

$L_{fT}(DW)$	=	equivalent continuous downwind octave-band sound pressure level at a receiver location, representing a worse case assessment;
L_w	=	octave-band sound power level of the sound source, where available, otherwise overall dB(A) level used;
D_c	=	directivity correction;
A	=	octave-band attenuation that occurs during propagation from the sound source to the receiver. $A = A_{div} + A_{atm} + A_{gr} + A_{bar} + A_{misc}$;
A_{div}	=	attenuation due to geometrical divergence;
A_{atm}	=	attenuation due to atmospheric absorption;
A_{gr}	=	attenuation due to the ground effect;
A_{bar}	=	attenuation due to a barrier; and
A_{misc}	=	attenuation due to miscellaneous other effects.

6.2 Model Assumptions

- 6.2.1 Principal features of the surrounding area included in the modelling such as buildings and other intervening structures have been based on Ordinance Survey mapping, site plans, and supplemented with on-site observations. Residential building heights have been modelled based on the observed number of floors, with the assumption of 2.5 m in height per floor level and 1m for a roof.
- 6.2.2 The topography of the area has been modelled as using Lidar data from DEFRA (Department for Environmental Food & Rural Affairs). Areas of hard and soft ground and areas of foliage have been estimated based on Google aerial mapping images.
- 6.2.3 Calculation receptors have been selected to represent the nearest residential properties to the WTW. The receptors are labelled as R1 to R7 on Figure A6 of Appendix A and tabulated overleaf in Table 6.1.



Rep ID	Address	Nearest Sound Monitoring Location	Background Sound Assessment Level, dB L _{A90,T}	
			Daytime ^[1] (07:00 - 23:00 hrs)	Night-time ^[1] (23:00 - 07:00 hrs)
R1	Stable Cottage, Perching Drove	LT1/ST2	35	29
R2	1 Stammers Hill	ST1	35	23
R3	Seasons Farm, Clappers Lane	ST3	35	28
R4	The Croft, The Street	ST1	35	23
R5	Perching Drove	ST3	35	28
R6	45 Clappers Lane	ST3	35	28
R7	Paythorne Farmhouse, Edburton Road	LT1/ST2	35	27

TABLE 6.1: SOUND CALCULATION RECEPTOR LOCATIONS

Note: Corrections from section 5.3 have only been applied to night-time background sound assessment values as this period is most sensitive with respect to BS 4142.

- 6.2.4 BS 4142 'Specific' sound levels have been calculated at each receptor 1 m from the façade of the residential dwelling. The calculated sound level is a free-field level as required by the BS 4142:2014+A1:2019 assessment methodology.
- 6.2.5 Daytime BS 4142 'Specific' sound levels have been calculated at a height of 1.5 m above local ground.
- 6.2.6 Night-time 'Specific' sound levels have been calculated at a height of 4.0 m above local ground, assumed to be representative of first floor height.

6.3 Modelled Sound Sources

- 6.3.1 Reference sound levels for the new WTW plant to be installed onsite have been provided by Southern Water and are summarised in Table 6.2.

New WTW Plant	SPL at 1 m, dB L _{Aeq,T}	No. of Plant	Modelled Height of Source (m)
Submersible pumps	65	1	0
MCC Kiosk	55	1	1.5
Air Desludge Kiosk	72 ^[1]	1	0.8
Ferric Dosing Kiosk	50	1	1.5
Air Mixing Kiosk	49 ^[1]	1	0.7
Agi-sac and Ferric Mixing Chamber	50	1	0.15
Washwater Booster Kiosk	80	1	1.15
<i>Tertiary treatment plant backwash system</i>			
Blower	68	1	1
Backwash Pumps	68	1	1
Compressor	68	1	1

TABLE 6.2: ASSUMED SOURCE-TERM SOUND LEVELS OF PROPOSED WTW PLANT

Notes:

[1] Reference sound level includes sound reduction provided by an enclosure.



6.3.2 SWS has advised on the following operating times for certain plant:

- the De-sludge Kiosk will run for 3 minutes every 3 hours;
- the Washwater Booster will operate once a day for a duration of 15 minutes; and
- the Tertiary Treatment Backwash System will operate no more than three times a day for a duration of 25 minutes.

6.3.3 All other plant has been assumed be a steady and continuous sound source during day and night-time operating periods.

6.3.4 It is understood that the reference sound pressure levels supplied for the MCC kiosk, the Ferric Dosing Kiosk and the Washwater Booster Kiosk are for the plant without any form of housing. These plant will be housed in kiosks made of Glass Reinforced Plastic (GRP).

6.3.5 The assumed sound attenuation of a GRP kiosk is presented in Table B4 in Appendix B.

6.3.6 Frequency data from Southdowns' database of water supply/treatment plant sound measurements have been used to derive indicative octave band frequency spectra for the modelling of the proposed plant. These spectra are tabulated in Table B5 of Appendix B.



7. SOUND ASSESSMENT

7.1 BS 4142 Assessment

7.1.1 The method for predicting the significance of sound of an industrial and/or commercial nature in accordance with the principles of BS 4142:2014+A1:2019 is based on a comparison of the plant's Rating Level ($L_{Ar,T}$) with the background $L_{A90,T}$ assessment sound level at a residential receptor location.

Background Sound Levels

7.1.2 The $L_{A90,T}$ background sound level is the sound level exceeded for 90 % of the time in the absence of any sound from the specific source of interest.

7.1.3 Background $L_{A90,T}$ sound levels presented in Table 6.1 have been used as a basis for assessing the new WTW plant sound levels.

BS 4142 Assessment

7.1.4 BS 4142+A1:2019 indicates that certain acoustic features such as tonality, impulsivity and intermittency can increase the significance of impact over that expected from a basic comparison between the specific $L_{Aeq,T}$ sound level and the background $L_{A90,T}$ sound level. Where such features are present at the assessment location, a character correction should be added to the specific sound level to obtain the rating level for comparison with the background sound assessment level.

7.1.5 The corrections that may be applied to account for acoustical features in the specific sound level at the receptor are summarised in Table 7.1.

Acoustic Feature	Description	Character Correction, dB
Tonality	Just perceptible	+2
	Clearly perceptible	+4
	Highly perceptible	+6
Impulsivity	Just perceptible	+3
	Clearly perceptible	+6
	Highly perceptible	+9
Intermittency	Intermittency is readily distinctive against the residual acoustic environment.	+3
Other sound characteristics	Where the specific sound features characteristics that are neither tonal nor impulsive, though otherwise are readily distinctive against the residual acoustic environment.	+3

TABLE 7.1: BS 4142 CORRECTIONS FOR ACOUSTIC FEATURES

7.1.6 BS 4142+A1:2019 advises that when subjectively applying a correction to account for tonality to a specific sound level a penalty of 2 dB can be applied for a tone which is just perceptible at the noise receptor, 4 dB where it is clearly perceptible, and 6 dB where it is highly perceptible.

7.1.7 A +2 dB correction has been applied to the night-time specific sound levels to account for the potential risk of tonality in the plant sound that may be just perceptible at the receptor locations.



7.1.8 The calculated WTW specific and rating sound levels at the receptor locations are presented in Tables 7.2 and 7.3 for the daytime and night-time assessment periods respectively, along with a comparison of the rating levels with the associated background sound assessment level.

Rep ID	Address	BS 4142 Sound Level Assessment				
		Specific Sound Level, $L_{Aeq,1hr}^{[1,2]}$	Acoustic Feature Correction, dB	(a) Rating Level, $L_{Ar, 1hr}$	(b) Background Sound Level, $L_{A90,T}$	Excess of Rating Over Background, dB (a minus b)
R1	Stable Cottage, Perching Drove	< 15	0	< 15	35	<-20
R2	1 Stammers Hill	< 15	0	< 15	35	<-20
R3	Seasons Farm, Clappers Lane	< 15	0	< 15	35	<-20
R4	The Croft, The Street	< 15	0	< 15	35	≤-20
R5	Perching Drove	< 15	0	< 15	35	<-20
R6	45 Clappers Lane	< 15	0	< 15	35	<-20
R7	Paythorne Farmhouse, Edburton Road	< 15	0	< 15	35	<-20

TABLE 7.2: DAYTIME BS 4142 SOUND ASSESSMENT

Notes:

[1] Specific and Rating Levels calculated at a free-field location, 1.5 m above local ground; and

[2] where multiple facades may be exposed to the specific sound, the façade with the highest calculated Specific Sound Level is presented.

Rep ID	Address	BS 4142 Sound Level Assessment				
		Specific Sound Level, $L_{Aeq,15min}^{[1,2]}$	Acoustic Feature Correction, dB	(a) Rating Level, $L_{Ar, 15min}$	(b) Background Sound Level, $L_{A90,T}$	Excess of Rating Over Background, dB (a minus b)
R1	Stable Cottage, Perching Drove	14	+2	16	29	-13
R2	1 Stammers Hill	12	+2	14	23	-9
R3	Seasons Farm, Clappers Lane	10	+2	12	28	-16
R4	The Croft, The Street	16	+2	18	23	-5
R5	Perching Drove	8	+2	10	28	-18
R6	45 Clappers Lane	16	+2	18	28	-10
R7	Paythorne Farmhouse, Edburton Road	7	+2	9	27	-18

TABLE 7.3: NIGHT-TIME BS 4142 SOUND ASSESSMENT

Notes:

[1] Specific and Rating Levels calculated at a free-field location, 4.0 m above local ground; and

[2] where multiple facades may be exposed to the specific sound, the façade with the highest calculated Specific Sound Level is presented.



- 7.1.9 The level differences presented in Table 7.2 show that the daytime WTW rating levels are calculated to fall at least c.20 dB below the daytime background sound assessment level at all receptors.
- 7.1.10 The level differences presented in Table 7.3 show that the night-time WTW rating levels are calculated to fall at least 5 dB below the background sound assessment levels at all receptors.
- 7.1.11 Where the rating level does not exceed the background sound level then this provides an indication of a specific sound source having a low noise impact.
- 7.1.12 BS 4142 goes on to indicate that the impact derived by the comparison of the rating level with background sound level is however dependent on the context of the sound environment at an assessment location.
- 7.1.13 The rating levels have been calculated to achieve the Local Authority's preferred sound criterion of a rating level to be no greater than background sound level, by a margin of approximately 20 dB and 5 dB during the daytime and night-time assessment periods, respectively.

7.2 Context

- 7.2.1 When considering the significance of an impact, BS 4142 advises that the context of the impact should be taken into account. The context of the impact should consider factors such as: the absolute level of sound; the character and level of the residual sound compared to the character and level of the specific sound; the sensitivity of the receptor; and whether dwellings or other premises used for residential purposes will already incorporate design measures that secure good internal and/or outdoor acoustic conditions.
- 7.2.2 The lowest daytime baseline ambient $L_{Aeq,15min}$ sound levels measured at LT1, excluding periods of adverse weather, were around 27 dB $L_{Aeq,15min}$. During the night-time periods the lowest ambient $L_{Aeq,15min}$ sound levels were around 25 dB $L_{Aeq,15min}$.
- 7.2.3 The specific $L_{Aeq,T}$ sound levels calculated at the receptors from the proposed operation of the new WTW plant onsite fall below the lowest $L_{Aeq,15min}$ sound levels measured during the daytime and night-time unattended monitoring periods at LT1 by around 7 dB or more.

7.3 Uncertainty

- 7.3.1 BS 4142 requires the potential uncertainty in measurements and calculations to be taken into account when considering the findings of an assessment. In addition to the source-term sound levels supplied for the assessment, the following elements of uncertainty are associated with the assessment:
- the supplied reference sound level data for the proposed plant to be installed onsite are understood to be $L_{Aeq,T}$ dB sound levels measured at a reference distance of 1 m;
 - the sound frequency spectra for the modelled plant have been normalised to the broadband source-term sound levels supplied by SWS;
 - the sound reduction assumed to be provided by the GRP kiosks has been estimated using empirical sound data obtained at a SWS borehole site in Hove, East Sussex;



- the acoustic feature correction for tonality in the calculation of the BS 4142 rating sound levels during the night-time assessment period has been assumed to be +2 dB;
- the background sound levels have been derived based on the sample obtained during the baseline sound survey period; and
- the rounding of integer values, as required by BS 4142, has been used in the derivation of the background sound levels and calculations, to avoid an impression of false precision to decimal places.

7.3.2 The outdoor propagation calculations are based on ISO 9613-2 1996. This ISO states that the calculations assume downwind conditions for outdoor sound propagation. Other limitations include other meteorological and non-material limitations such as winds speeds being limited between 1 and 5 ms⁻¹. It is also noted in ISO 9613-2 1996 that the estimated errors for octave-band sound pressure levels, calculated under the same conditions as the broadband calculation, may be somewhat larger than the errors for A-weighted broadband sources. Between 0-100 m and 100-1000 m the estimated accuracy is displayed in Table 7.4.

Height	Distance	
	0 < d < 100 m	100m < d < 1000 m
0 < h < 5 m	+/-3 dB	+/-3 dB
5m < h < 30 m	+/-1 dB	+/-3 dB

TABLE 7.4: ESTIMATIONS OF UNCERTAINTY IN ISO 9613-2

*Notes: h – mean height of source and receiver;
d – distance between source and receiver; and
estimates made from situations where there are no effects due to reflection or attenuation due to screening.*



8. CONCLUSIONS

- 8.1.1 A BS 4142+A1:2019 sound assessment has been undertaken of the proposed operation of new sound generating plant associated with the upgrade of the Fulking WTW located on Perching Drove in the village of Fulking, West Sussex.
- 8.1.2 A baseline sound survey consisting of unattended and attended sound monitoring has been undertaken in the vicinity of the WTW to establish existing ambient ($L_{Aeq,T}$) and background ($L_{A90,T}$) sound levels outside the nearest residential receptors to the WTW.
- 8.1.3 The main sources of environmental sound observed in the vicinity of the existing WTW were wildlife and distance and local road traffic.
- 8.1.4 Existing plant from the WTW was not audible during the attended survey undertaken during a weekday night-time period.
- 8.1.5 Rating levels calculated from the operation of the proposed new sound generating WTW plant have been assessed using the principles of BS 4142:2014+A1:2019 and have been calculated to fall at least 20 dB below the daytime background sound level.
- 8.1.6 Rating levels calculated during the night-time operation of the new proposed WTW plant have been calculated to fall at least 5 dB below the night-time background sound level.
- 8.1.7 According to BS 4142+A1:2019, where the rating level does not exceed the background sound level then this provides an indication of a specific sound source having a low noise impact.
- 8.1.8 Mid Sussex District Council is understood to prefer plant sound levels to be no greater than the background sound level when using the BS 4142+A1:2019 assessment method.
- 8.1.9 In summary, Rating levels calculated during the daytime and night-time assessment periods achieve this criterion by 20 dB and 5 dB respectively.
- 8.1.10 As the rating levels fall below the background sound assessment levels, and that there are no other contextual considerations that are material to the assessment, additional noise mitigation other than that which is already included in the design proposals for the upgrade of the WTW have not been identified.



REFERENCES

1. British Standards Institution (BSI). BS 4142:2014+A1:2019 Methods for rating and assessing industrial and commercial sound. 2019.
2. Department for Environment, Food and Rural Affairs (DEFRA). Noise Policy Statement for England (NPSE). March 2010.
3. Department of Communities and Local Government. 2012. National Planning Policy Framework. March 2012.
4. Ministry of Housing, Communities and Local Government. National Planning Policy Framework. February 2019. July 2021.
5. Department for Environment, Food and Rural Affairs (DEFRA). Planning Practice Guidance – Noise. 2014. Revised July 2019
6. International Organization for Standardisation. ISO 9613 Attenuation of Sound during Propagation Outdoors: Part 2. 1996.

APPENDIX A: FIGURES

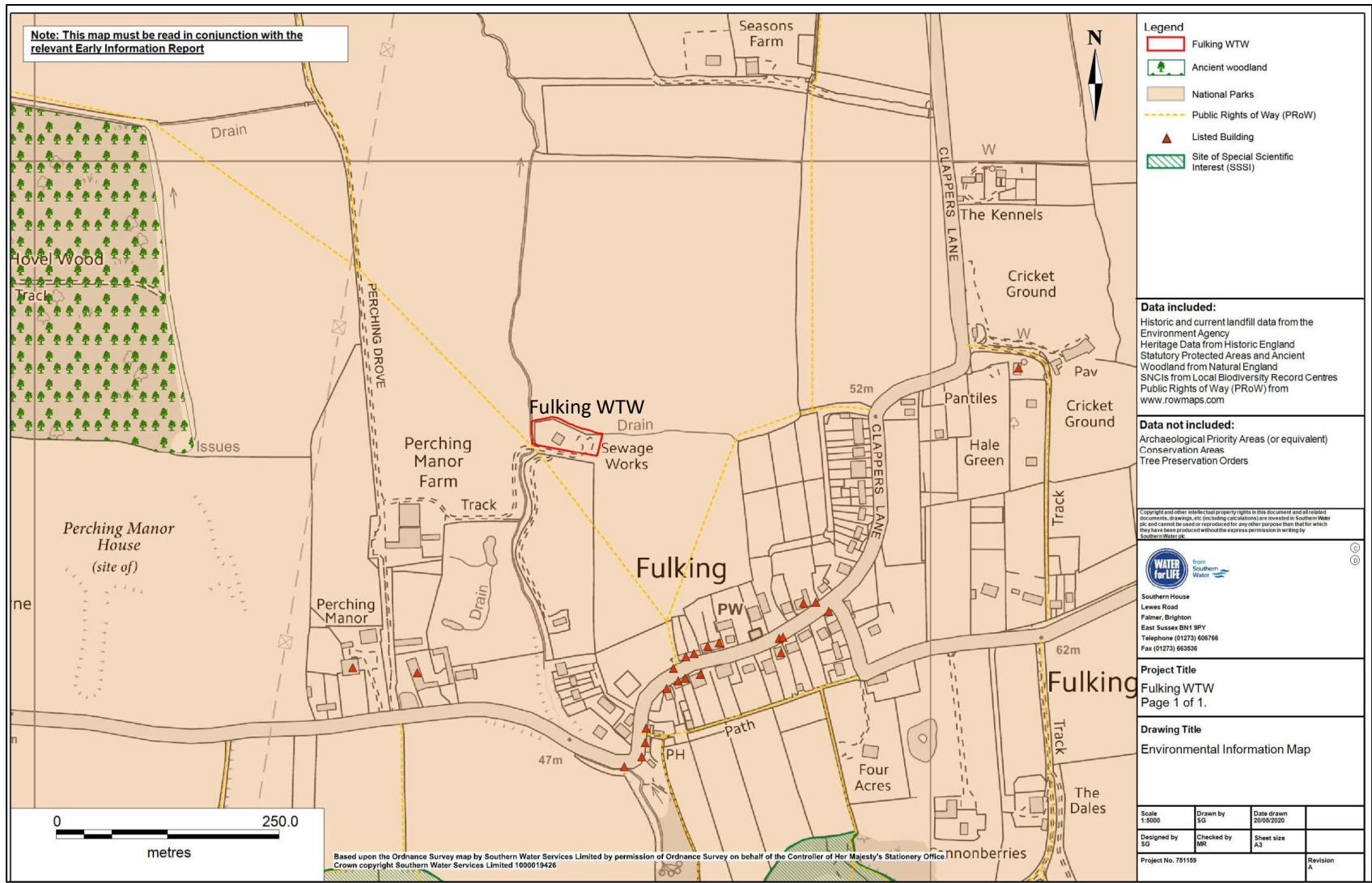


FIGURE A1: FULKING WATER TREATMENT WORKS

Note: Aerial mapping taken from Google maps. Imagery ©2022 Google.

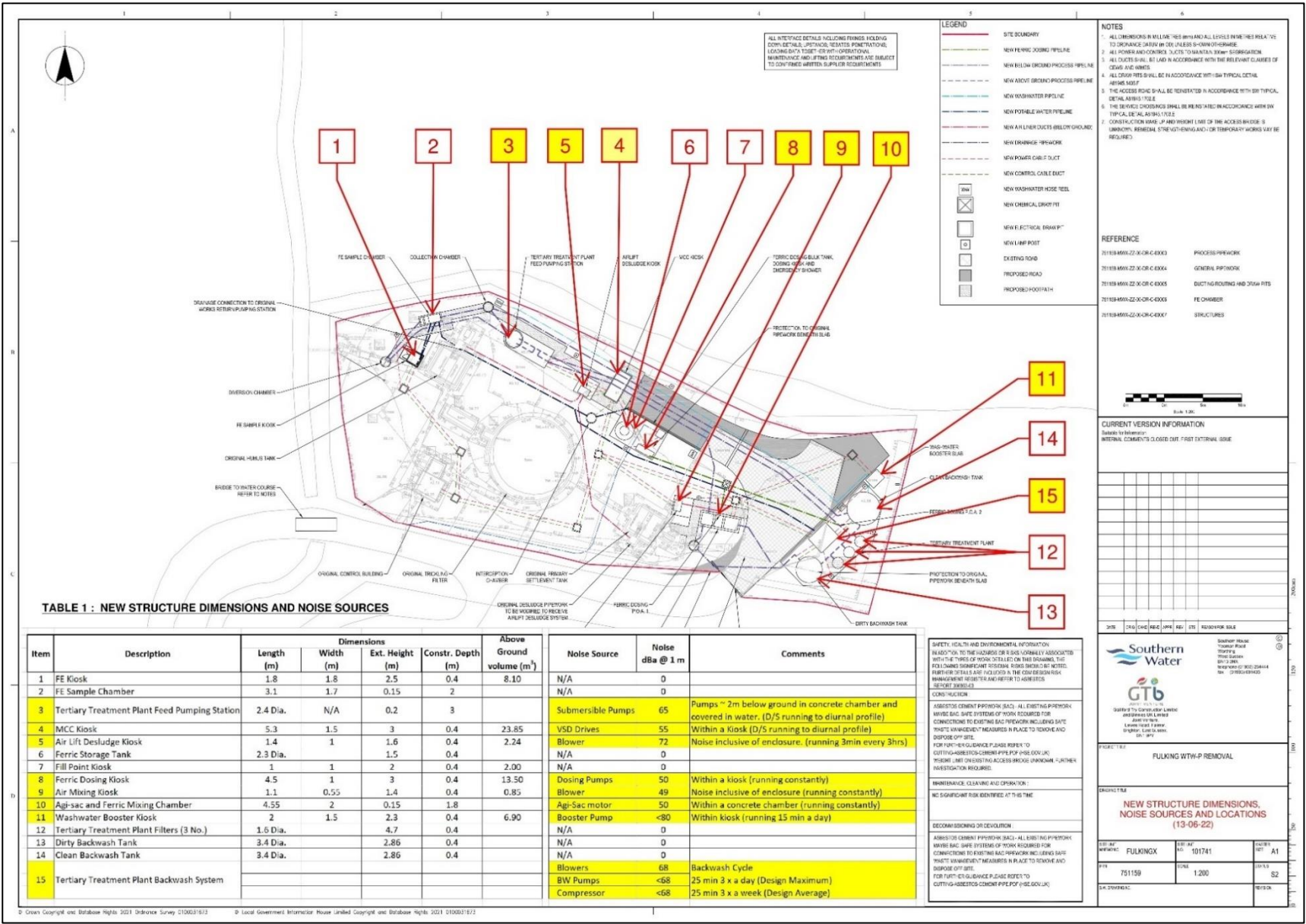


FIGURE A2: FULKING WATER TREATMENT WORKS – PROPOSED SITE LAYOUT

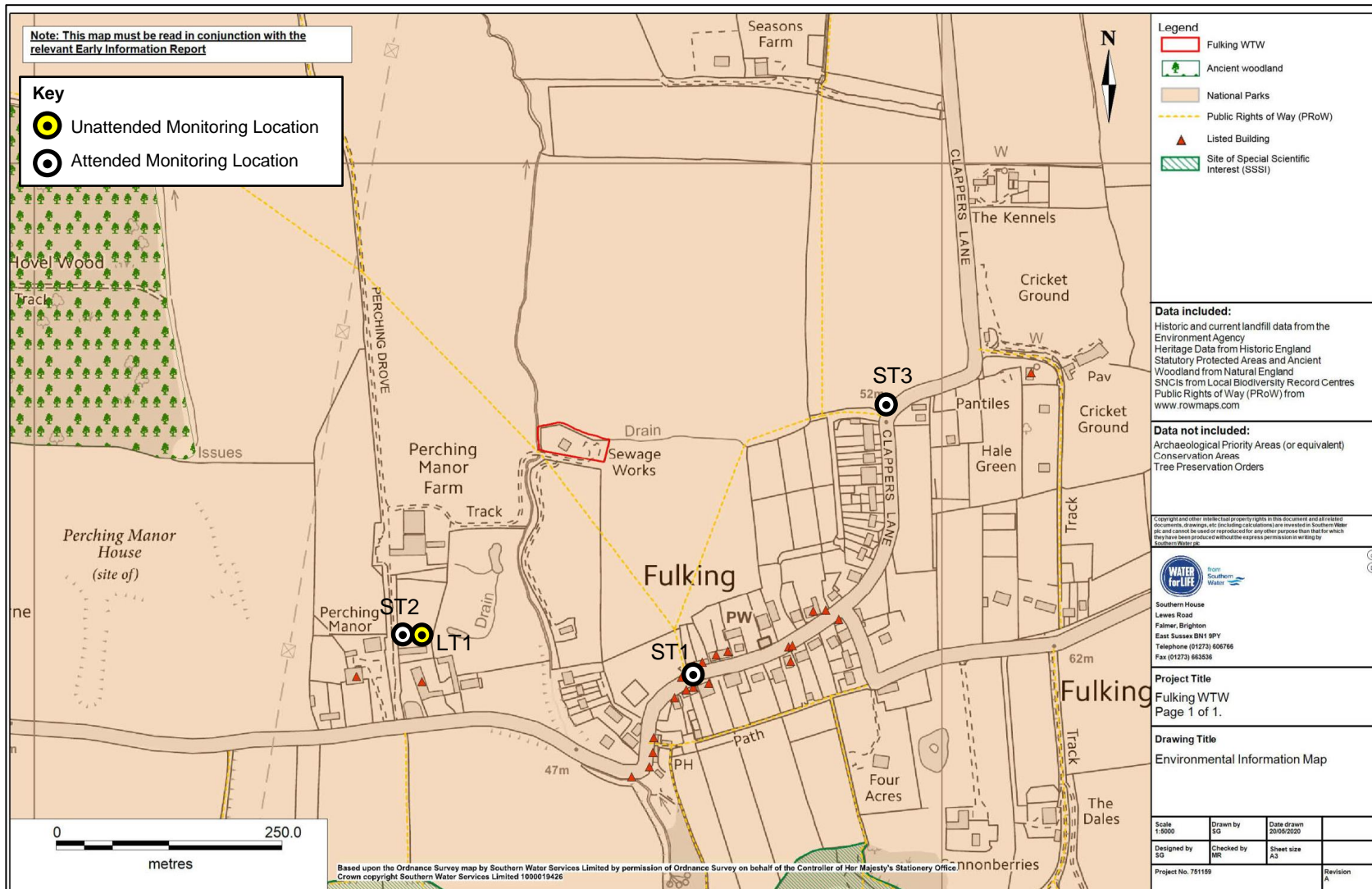


FIGURE A3: FULKING WATER TREATMENT WORKS – BASELINE SOUND MONITORING LOCATIONS

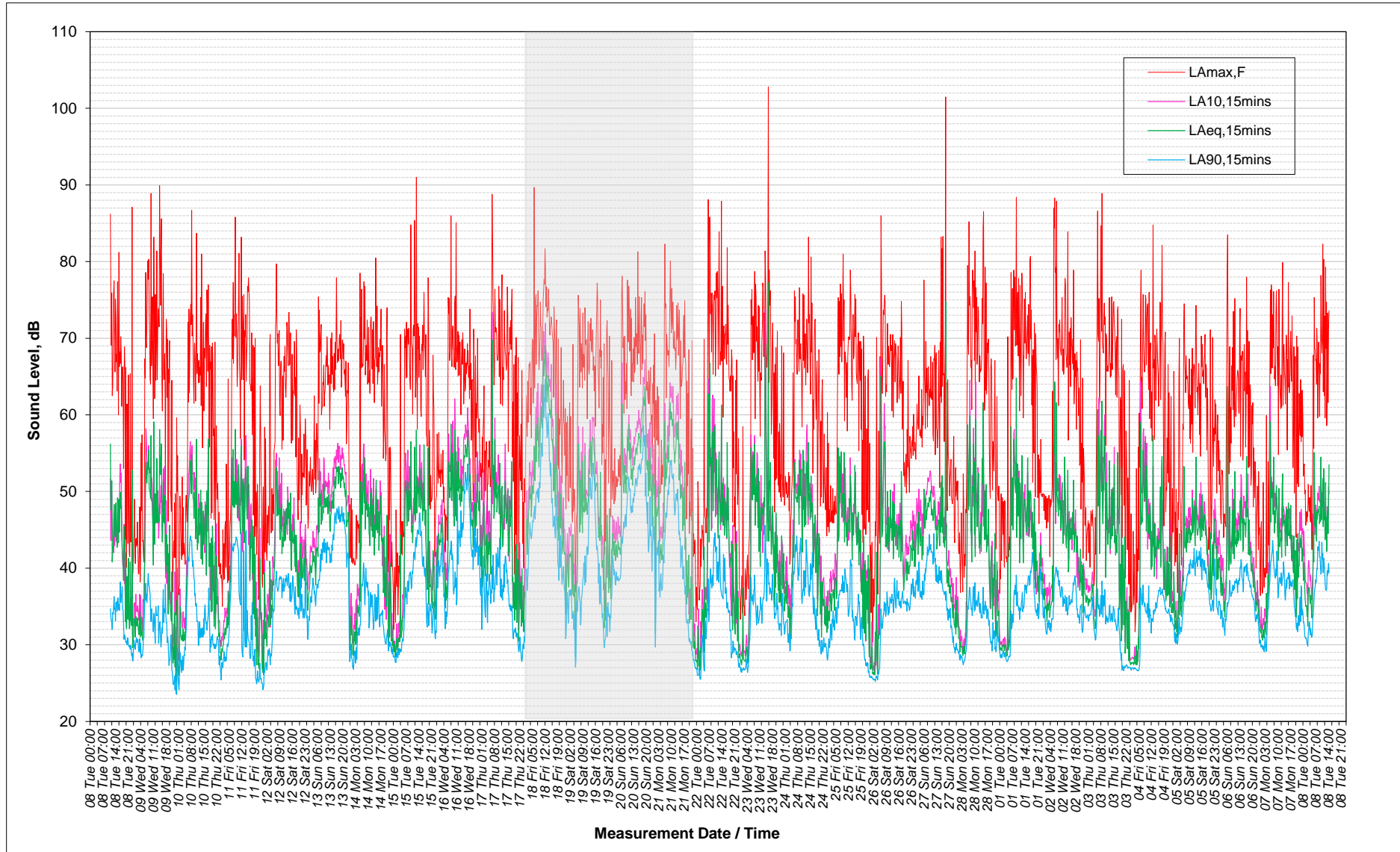


FIGURE A4: UNATTENDED SOUND MONITORING RESULTS AT LT1 – STABLE COTTAGE, FULKING

Note: Grey shading indicates periods where sound levels have been measured during potential periods of adverse weather.

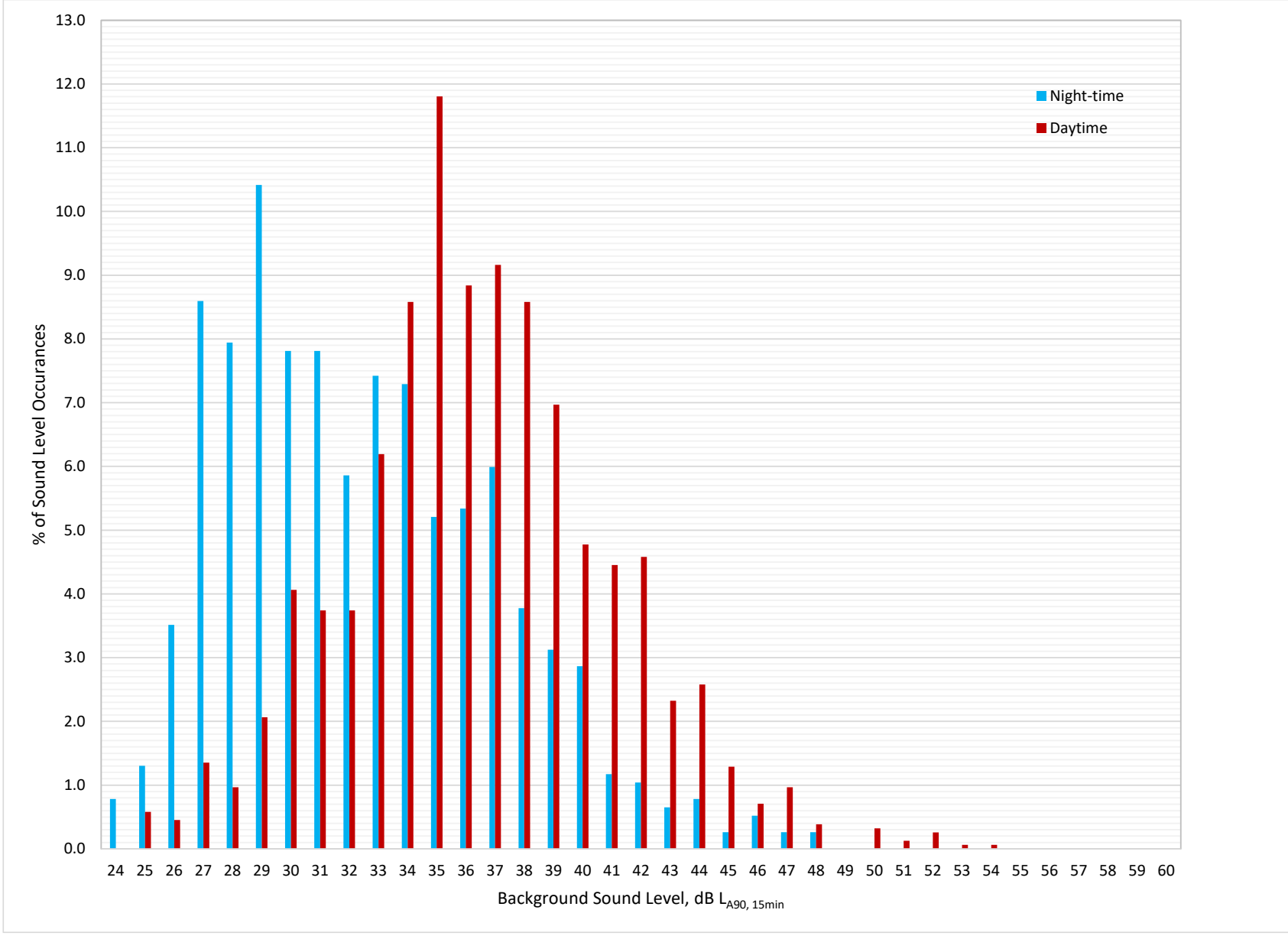


FIGURE A5: STATISTICAL ANALYSIS OF BACKGROUND $L_{A90,15MIN}$ SOUND LEVELS MEASURED AT LT1 – STABLE COTTAGE, FULKING
Note: Sound levels measured during potential periods of adverse weather have been excluded from this data analysis.

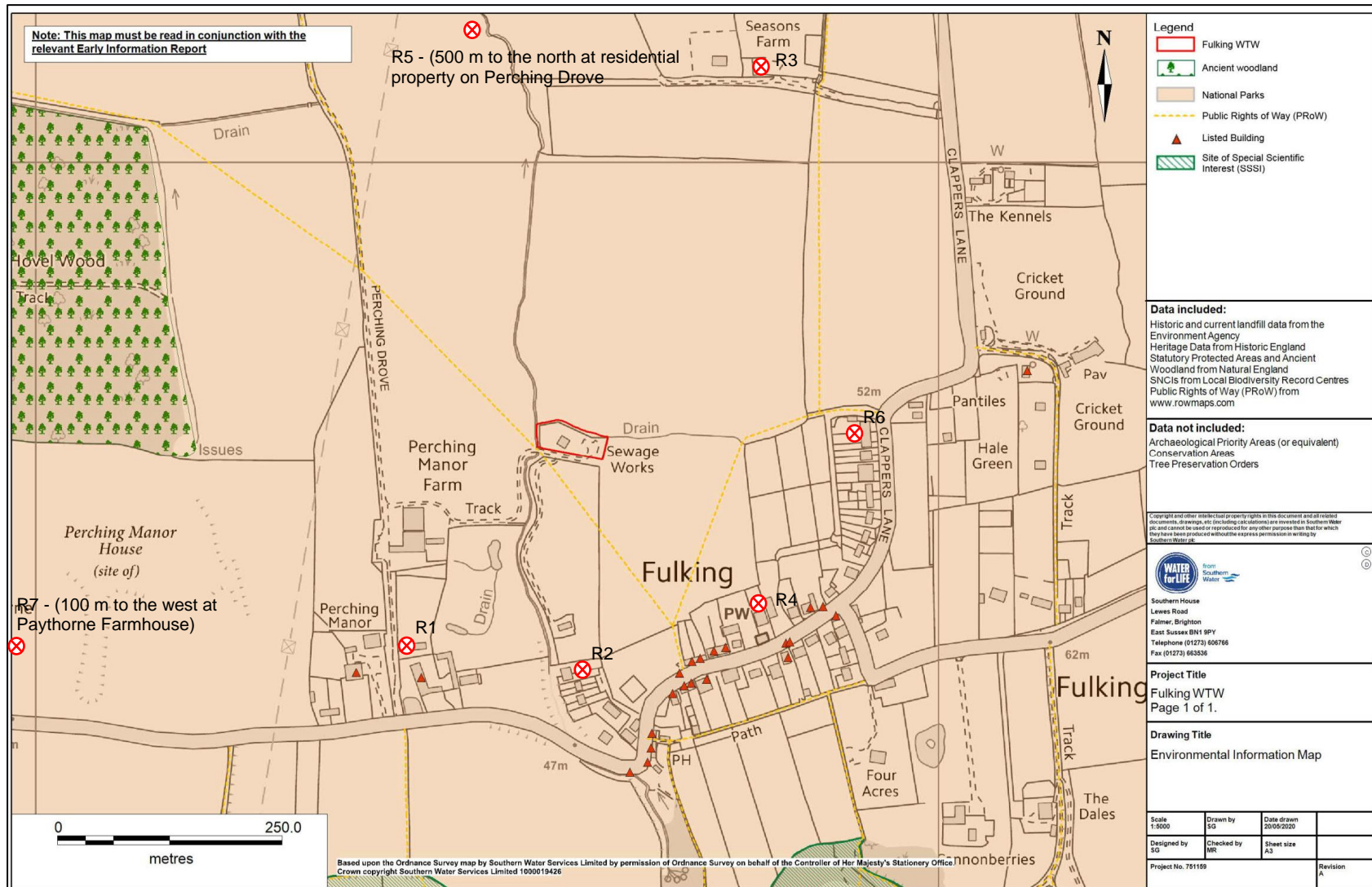


FIGURE A6: CALCULATION RECEPTOR LOCATIONS AROUND FULKING WTW

APPENDIX B: TABLES

Date	Average Daily Air Temp. (°C)	Relative Humidity (%)	Wind (ms ⁻¹)		Precipitation, mm
			Avg.	Max	
08-Feb-22	9.9	94.0	0.9	4.9	0.3
09-Feb-22	-	-	-	-	-
10-Feb-22	6.6	86.0	1.8	6.7	1.5
11-Feb-22	4.4	85.0	0.8	7.0	0.0
12-Feb-22	6.2	83.0	0.7	6.6	0.0
13-Feb-22	8.1	95.0	1.1	6.4	8.1
14-Feb-22	7.8	89.0	2.2	7.8	4.3
15-Feb-22	8.0	96.0	1.9	9.5	6.1
16-Feb-22	11.4	96.0	3.2	11.6	3.6
17-Feb-22	9.8	80.0	2.4	9.8	1.5
18-Feb-22	8.2	83.0	3.9	15.5	2.0
19-Feb-22	6.8	86.0	2.7	11.2	4.8
20-Feb-22	9.7	92.0	4.3	14.4	3.3
21-Feb-22	8.1	76.0	4.5	14.7	0.5
22-Feb-22	9.7	86.0	2.2	10.8	0.3
23-Feb-22	7.6	92.0	1.1	7.3	0.3
24-Feb-22	6.3	86.0	2.6	12.6	4.3
25-Feb-22	5.9	77.0	2.4	9.1	0.0
26-Feb-22	4.6	86.0	0.2	3.2	0.0
27-Feb-22	6.3	79.0	0.4	3.2	0.0
28-Feb-22	9.3	90.0	0.3	4.1	2.3
01-Mar-22	8.7	99.0	0.1	2.1	14.2
02-Mar-22	7.5	92.0	0.1	2.0	4.3
03-Mar-22	8.5	97.0	0.1	2.0	0.0
04-Mar-22	7.3	95.0	1.1	4.9	0.0
05-Mar-22	5.9	91.0	1.8	6.7	0.5
06-Mar-22	4.7	76.0	0.9	4.9	1.5
07-Mar-22	4.3	76.0	0.5	5.8	1.0
08-Mar-22	7.1	79.0	0.3	3.5	0.0

TABLE B1: WEATHER RECORD OBTAINED FOR SURVEY PERIOD

Note: Weather data obtained from Wunderground (Penlands Close - ISTEYN4)

Monitoring Location	Date of Meas.	Start Time	Dur. (min s)	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.				Comments
				L _{Amax,F}	L _{A10, 15min}	L _{Aeq,15min}	L _{A90, 15min}	
ST2	08/02/22	23:30	15	56.3	33.4	31.4	24.5	Temp: 9°C, Wind: 0.5m/s RH: 69%. Cloudy & Dry. Main sound source: wind in trees & birds.
ST1	09/02/22	00:00	15	62.2	30.4	30.4	22.2	Cloudy & Dry; Main sound source: wind in trees & birds.
ST3	09/02/22	00:30	15	65.9	36.1	34.9	27.7	Cloudy & Dry; Main sound source: wind in trees & birds. Wind gusting to 0.9m/s; Occasional foxes audible; Distant car audible at 00:37.
ST2	09/02/22	01:00	15	53.4	36.0	32.8	26.5	Cloudy & Dry; Main sound source: wind in trees & birds.
ST1	09/02/22	01:32	15	60.8	37.4	35.0	25.5	Cloudy & Light rain begins; Main sound source: wind in trees & birds.
ST3	09/02/22	02:00	15	49.5	36.3	33.8	28.6	Cloudy & Light rain; Dominant noise source: wind in trees.
ST3	09/02/22	02:15	15	52.8	40.1	37.0	31.7	Cloudy & Light rain; Dominant noise source: wind in trees.
ST1	09/02/22	02:45	15	54.4	34.8	32.0	25.5	Cloudy & Light rain; Dominant noise source: wind in trees.
ST2	09/02/22	03:15	15	54.1	37.1	33.9	28.0	Cloudy & Light rain; Wind: < 1 m/s; RH: 88%;Temp: 9°C; Creaking audible from adjacent property; Birds audible; Jet plane at 03:29.

TABLE B2: FULKING WTW ATTENDED SOUND SURVEY RESULTS, TUESDAY 8TH – WEDNESDAY 9TH FEBRUARY 2022

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
08/02/22	11:14	86.2	51.7	56.2	34.7
08/02/22	11:29	76.0	43.6	47.6	33.7
08/02/22	11:44	69.1	49.2	47.9	33.1
08/02/22	11:59	75.9	50.0	51.4	33.1
08/02/22	12:14	62.5	43.6	40.8	32.0
08/02/22	12:29	63.7	43.7	42.8	34.2
08/02/22	12:44	68.5	43.6	42.6	34.0
08/02/22	12:59	76.0	42.0	45.9	35.0
08/02/22	13:14	77.5	46.2	48.3	36.3
08/02/22	13:29	70.4	42.9	46.2	34.6
08/02/22	13:44	65.6	43.6	44.1	34.8
08/02/22	13:59	75.1	48.1	47.2	33.1
08/02/22	14:14	72.7	47.9	48.5	35.5
08/02/22	14:29	66.9	43.5	44.6	35.2
08/02/22	14:44	67.9	45.2	44.5	35.6
08/02/22	14:59	63.1	43.0	42.7	34.4
08/02/22	15:14	77.4	44.6	49.2	36.0
08/02/22	15:29	70.0	47.0	47.6	36.1
08/02/22	15:44	60.0	46.7	43.3	34.6
08/02/22	15:59	81.2	47.3	49.0	35.2
08/02/22	16:14	66.3	46.6	44.7	34.5
08/02/22	16:29	68.2	52.3	48.5	36.2
08/02/22	16:44	66.7	53.6	49.9	38.2
08/02/22	16:59	70.2	51.2	47.8	35.5
08/02/22	17:14	68.1	52.4	48.2	36.5
08/02/22	17:29	61.1	46.7	44.8	36.6
08/02/22	17:44	65.8	43.1	42.6	37.6
08/02/22	17:59	66.3	40.6	41.2	34.6
08/02/22	18:14	64.4	40.0	41.1	34.5
08/02/22	18:29	53.0	40.8	38.4	32.9
08/02/22	18:44	64.4	45.7	45.5	30.7
08/02/22	18:59	68.9	38.0	42.7	31.3
08/02/22	19:14	66.0	38.3	43.8	31.1
08/02/22	19:29	43.7	34.8	33.0	30.8
08/02/22	19:44	66.2	39.3	42.0	30.3
08/02/22	19:59	46.7	35.0	33.2	30.5
08/02/22	20:14	40.1	33.9	32.1	30.3
08/02/22	20:29	61.4	35.9	38.9	30.0
08/02/22	20:44	55.7	37.2	35.9	30.9
08/02/22	20:59	43.2	35.3	33.3	30.8
08/02/22	21:14	65.2	35.6	41.3	30.0
08/02/22	21:29	48.6	36.1	34.2	29.8
08/02/22	21:44	41.8	34.3	32.1	29.7
08/02/22	21:59	41.5	34.6	32.3	29.9
08/02/22	22:14	65.4	35.2	40.8	29.4
08/02/22	22:29	43.4	35.0	33.1	29.9

TABLE B3: CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
08/02/22	22:44	44.6	36.1	33.2	29.6
	Arith. Average	63.5	42.6	42.7	33.3
	Log. Average	73.1	46.0	46.0	34.0
	Minimum	40.1	33.9	32.1	29.4
	Maximum	86.2	53.6	56.2	38.2
08/02/22	22:59	50.8	32.8	32.5	28.6
08/02/22	23:14	87.1	41.7	52.8	28.9
08/02/22	23:29	38.9	31.4	29.6	27.9
08/02/22	23:44	39.6	32.7	30.3	27.9
08/02/22	23:59	42.6	32.5	31.1	29.6
09/02/22	00:14	44.4	35.4	33.4	30.6
09/02/22	00:29	49.0	35.5	33.4	29.7
09/02/22	00:44	41.8	35.4	33.0	30.1
09/02/22	00:59	40.6	32.8	31.0	29.4
09/02/22	01:14	43.8	36.6	33.7	30.4
09/02/22	01:29	42.8	34.7	32.9	30.6
09/02/22	01:44	43.9	34.5	32.7	30.9
09/02/22	01:59	43.0	34.3	32.4	30.3
09/02/22	02:14	46.0	35.1	33.5	30.7
09/02/22	02:29	42.8	34.7	32.8	30.7
09/02/22	02:44	39.3	34.1	32.1	29.8
09/02/22	02:59	39.2	33.2	31.3	29.1
09/02/22	03:14	42.5	34.8	32.4	29.5
09/02/22	03:29	48.0	36.6	34.4	30.8
09/02/22	03:44	38.2	33.0	31.0	28.9
09/02/22	03:59	42.1	36.4	33.6	30.2
09/02/22	04:14	56.3	32.9	31.8	28.3
09/02/22	04:29	47.5	33.6	31.2	28.7
09/02/22	04:44	57.4	31.7	31.6	28.5
09/02/22	04:59	43.5	32.3	30.6	28.6
09/02/22	05:14	43.6	35.9	32.8	29.4
09/02/22	05:29	42.0	35.6	33.5	30.9
09/02/22	05:44	40.8	35.7	33.5	30.9
09/02/22	05:59	46.8	39.2	37.4	34.4
09/02/22	06:14	67.3	41.1	43.0	35.7
09/02/22	06:29	64.8	50.3	46.8	36.4
09/02/22	06:44	78.6	55.3	52.9	38.0
	Arith. Average	48.0	36.0	34.5	30.5
	Log. Average	72.7	42.4	42.0	31.3
	Minimum	38.2	31.4	29.6	27.9
	Maximum	87.1	55.3	52.9	38.0
09/02/22	06:59	69.9	58.2	53.8	35.8
09/02/22	07:14	68.8	56.5	52.2	36.6
09/02/22	07:29	71.7	54.5	51.1	35.5

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
09/02/22	07:44	77.4	52.3	52.9	36.7
09/02/22	07:59	80.1	53.8	53.8	38.2
09/02/22	08:14	77.7	53.7	52.9	39.3
09/02/22	08:29	80.3	56.0	55.4	37.8
09/02/22	08:44	73.4	52.6	50.3	37.7
09/02/22	08:59	70.1	53.1	50.2	37.1
09/02/22	09:14	64.6	52.4	49.9	36.5
09/02/22	09:29	64.0	52.5	49.1	34.4
09/02/22	09:44	88.9	50.8	57.3	33.0
09/02/22	09:59	66.4	51.8	48.8	34.7
09/02/22	10:14	70.1	51.3	49.1	33.7
09/02/22	10:29	75.4	50.3	47.0	33.2
09/02/22	10:44	66.6	47.8	45.4	33.0
09/02/22	10:59	59.5	42.9	40.4	31.7
09/02/22	11:14	83.2	50.3	59.1	34.1
09/02/22	11:29	71.5	48.8	48.0	33.5
09/02/22	11:44	62.1	46.8	43.1	32.2
09/02/22	11:59	72.8	49.1	49.7	30.2
09/02/22	12:14	75.7	49.7	49.5	33.5
09/02/22	12:29	64.5	48.5	45.9	35.0
09/02/22	12:44	69.0	49.4	46.7	33.9
09/02/22	12:59	81.4	51.4	54.3	33.8
09/02/22	13:14	64.6	48.9	45.9	33.9
09/02/22	13:29	70.9	50.1	48.0	33.9
09/02/22	13:44	73.7	47.2	46.0	35.1
09/02/22	13:59	73.9	43.9	46.9	30.2
09/02/22	14:14	71.5	45.8	46.0	31.9
09/02/22	14:29	89.9	48.3	58.1	32.9
09/02/22	14:44	81.9	47.1	52.3	33.0
09/02/22	14:59	74.3	49.3	52.2	31.0
09/02/22	15:14	81.4	50.8	54.3	29.7
09/02/22	15:29	85.6	48.6	56.2	30.6
09/02/22	15:44	64.4	48.8	45.5	32.2
09/02/22	15:59	60.5	47.3	43.4	31.5
09/02/22	16:14	69.2	47.9	46.1	35.1
09/02/22	16:29	78.4	53.0	51.3	37.2
09/02/22	16:44	64.6	49.9	46.1	32.9
09/02/22	16:59	64.7	49.2	45.9	34.7
09/02/22	17:14	68.0	53.3	49.5	34.2
09/02/22	17:29	62.4	47.7	44.8	34.5
09/02/22	17:44	48.3	43.4	41.2	37.9
09/02/22	17:59	64.2	38.7	39.4	34.2
09/02/22	18:14	72.5	48.8	44.4	32.9
09/02/22	18:29	71.0	38.0	44.2	32.9
09/02/22	18:44	62.3	42.0	40.4	30.3
09/02/22	18:59	69.9	37.2	43.1	31.0

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
09/02/22	19:14	46.1	36.5	34.0	30.4
09/02/22	19:29	66.0	37.5	41.9	28.6
09/02/22	19:44	64.2	35.9	39.0	27.3
09/02/22	19:59	69.7	44.1	45.6	28.0
09/02/22	20:14	55.0	35.3	35.3	28.0
09/02/22	20:29	50.1	36.9	34.4	29.7
09/02/22	20:44	49.3	36.0	34.1	31.3
09/02/22	20:59	47.4	34.8	33.1	29.8
09/02/22	21:14	64.5	33.1	39.5	26.8
09/02/22	21:29	41.6	32.2	29.7	26.5
09/02/22	21:44	36.9	29.6	27.7	25.8
09/02/22	21:59	40.7	29.0	27.6	24.8
09/02/22	22:14	43.5	32.7	29.7	25.0
09/02/22	22:29	41.4	30.3	28.1	25.0
09/02/22	22:44	48.5	39.5	34.2	25.9
	Arith. Average	66.5	45.8	45.3	32.5
	Log. Average	77.4	49.9	50.2	33.7
	Minimum	36.9	29.0	27.6	24.8
	Maximum	89.9	58.2	59.1	39.3
09/02/22	22:59	41.4	30.0	27.1	24.1
09/02/22	23:14	49.7	32.3	30.0	26.1
09/02/22	23:29	42.4	27.8	26.2	24.1
09/02/22	23:44	33.9	26.6	25.2	23.6
09/02/22	23:59	59.6	32.2	35.7	23.5
10/02/22	00:14	50.0	38.7	35.6	28.5
10/02/22	00:29	54.7	40.0	36.7	29.6
10/02/22	00:44	46.3	29.0	27.5	25.8
10/02/22	00:59	36.5	27.9	26.4	24.9
10/02/22	01:14	37.6	28.5	26.0	24.1
10/02/22	01:29	37.7	29.3	27.9	26.1
10/02/22	01:44	49.4	37.3	35.0	29.0
10/02/22	01:59	47.6	35.1	32.5	28.7
10/02/22	02:14	44.3	34.2	31.0	27.4
10/02/22	02:29	41.9	34.1	30.9	26.4
10/02/22	02:44	41.1	32.8	30.6	28.0
10/02/22	02:59	51.9	32.2	31.3	26.7
10/02/22	03:14	41.7	32.3	30.5	28.5
10/02/22	03:29	47.9	34.3	32.1	26.7
10/02/22	03:44	41.9	33.0	30.5	27.4
10/02/22	03:59	43.2	33.1	31.2	28.7
10/02/22	04:14	41.8	32.2	30.6	28.6
10/02/22	04:29	41.5	33.5	31.7	29.7
10/02/22	04:44	40.5	32.0	30.7	29.3
10/02/22	04:59	48.0	34.3	32.8	30.9
10/02/22	05:14	49.5	36.7	34.5	32.0

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
10/02/22	05:29	47.7	41.0	38.6	35.1
10/02/22	05:44	46.0	40.9	39.1	36.7
10/02/22	05:59	53.5	43.2	41.3	38.6
10/02/22	06:14	72.1	46.8	47.1	41.1
10/02/22	06:29	61.7	52.3	48.7	41.4
10/02/22	06:44	73.8	52.3	49.2	40.9
	Arith. Average	47.4	35.2	33.3	29.4
	Log. Average	61.4	41.9	39.4	33.4
	Minimum	33.9	26.6	25.2	23.5
	Maximum	73.8	52.3	49.2	41.4
10/02/22	06:59	62.9	53.3	49.8	42.2
10/02/22	07:14	68.2	55.4	51.9	43.6
10/02/22	07:29	72.9	56.5	54.0	44.2
10/02/22	07:44	74.4	53.7	51.8	43.8
10/02/22	07:59	71.8	52.1	49.7	43.6
10/02/22	08:14	86.7	55.3	54.8	43.6
10/02/22	08:29	70.3	56.0	51.9	41.6
10/02/22	08:44	73.1	52.4	51.3	40.2
10/02/22	08:59	69.2	52.3	49.2	41.0
10/02/22	09:14	64.4	52.4	49.0	39.7
10/02/22	09:29	61.5	50.3	46.5	38.6
10/02/22	09:44	69.3	52.5	49.9	38.4
10/02/22	09:59	69.4	49.3	48.6	36.4
10/02/22	10:14	66.9	51.8	48.7	36.7
10/02/22	10:29	61.8	47.3	43.8	35.1
10/02/22	10:44	69.1	49.6	47.5	35.4
10/02/22	10:59	83.7	51.3	56.8	35.3
10/02/22	11:14	65.4	48.2	45.4	33.0
10/02/22	11:29	68.0	43.4	42.4	33.1
10/02/22	11:44	66.6	45.4	44.1	33.0
10/02/22	11:59	64.2	44.2	43.3	29.9
10/02/22	12:14	67.1	49.7	47.8	30.0
10/02/22	12:29	64.2	47.6	44.3	32.8
10/02/22	12:44	66.2	48.5	45.8	33.0
10/02/22	12:59	65.2	46.5	44.7	30.9
10/02/22	13:14	75.3	45.9	50.2	32.0
10/02/22	13:29	61.2	42.9	41.2	32.1
10/02/22	13:44	81.0	43.2	48.6	31.0
10/02/22	13:59	65.0	47.5	45.3	31.8
10/02/22	14:14	55.7	43.8	40.5	32.2
10/02/22	14:29	68.2	43.8	44.8	31.0
10/02/22	14:44	72.1	47.2	47.5	32.0
10/02/22	14:59	60.5	46.6	43.1	33.4
10/02/22	15:14	62.3	43.6	43.5	31.4
10/02/22	15:29	68.7	42.0	44.1	34.6

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
10/02/22	15:44	67.4	48.7	46.5	35.2
10/02/22	15:59	72.1	48.0	48.2	33.6
10/02/22	16:14	73.2	43.4	44.4	32.8
10/02/22	16:29	63.7	39.1	39.1	32.9
10/02/22	16:44	76.3	48.7	50.1	31.9
10/02/22	16:59	72.6	44.8	47.7	32.8
10/02/22	17:14	65.7	50.4	46.9	33.3
10/02/22	17:29	77.0	56.6	56.8	34.1
10/02/22	17:44	65.9	43.1	44.7	37.4
10/02/22	17:59	55.8	42.3	40.2	35.0
10/02/22	18:14	69.1	42.0	43.2	32.0
10/02/22	18:29	66.0	35.8	40.2	29.0
10/02/22	18:44	66.9	39.7	43.2	30.7
10/02/22	18:59	46.5	37.5	34.3	29.7
10/02/22	19:14	68.9	38.1	43.9	31.1
10/02/22	19:29	47.2	36.7	34.4	30.7
10/02/22	19:44	69.4	42.6	45.5	31.4
10/02/22	19:59	66.8	42.9	42.5	30.2
10/02/22	20:14	57.3	37.2	37.0	29.9
10/02/22	20:29	58.2	40.2	37.1	30.1
10/02/22	20:44	46.3	33.4	32.4	29.8
10/02/22	20:59	52.2	40.4	37.2	29.5
10/02/22	21:14	69.5	35.8	43.4	30.1
10/02/22	21:29	42.1	34.0	32.1	29.5
10/02/22	21:44	52.0	34.5	35.2	29.8
10/02/22	21:59	58.6	45.8	41.6	29.9
10/02/22	22:14	50.7	38.7	35.3	30.8
10/02/22	22:29	49.0	38.7	35.7	31.1
10/02/22	22:44	51.1	38.5	36.3	30.7
	Arith. Average	65.2	45.5	44.6	33.9
	Log. Average	73.1	49.1	48.0	36.6
	Minimum	42.1	33.4	32.1	29.0
	Maximum	86.7	56.6	56.8	44.2
10/02/22	22:59	45.9	35.2	33.6	30.7
10/02/22	23:14	40.2	32.9	31.1	28.8
10/02/22	23:29	47.3	33.2	31.5	27.4
10/02/22	23:44	39.2	33.0	31.1	28.5
10/02/22	23:59	39.5	30.3	29.0	27.3
11/02/22	00:14	40.6	30.6	29.0	26.8
11/02/22	00:29	38.7	29.8	28.0	25.4
11/02/22	00:44	39.1	30.2	28.7	26.6
11/02/22	00:59	38.1	31.1	29.5	27.7
11/02/22	01:14	35.0	30.6	29.1	27.1
11/02/22	01:29	45.0	31.5	29.8	27.0
11/02/22	01:44	39.7	31.6	30.0	28.2

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
11/02/22	01:59	38.5	32.8	30.8	28.3
11/02/22	02:14	43.2	33.2	31.5	29.1
11/02/22	02:29	38.6	33.0	30.8	28.1
11/02/22	02:44	45.3	34.8	32.1	27.8
11/02/22	02:59	46.1	34.5	32.2	28.4
11/02/22	03:14	40.1	33.6	31.3	28.0
11/02/22	03:29	53.6	33.7	32.0	27.9
11/02/22	03:44	47.8	34.8	33.6	29.1
11/02/22	03:59	39.8	34.1	32.3	30.1
11/02/22	04:14	38.1	34.0	32.2	30.0
11/02/22	04:29	64.7	35.4	37.0	29.8
11/02/22	04:44	38.4	34.2	32.6	30.8
11/02/22	04:59	40.6	36.2	34.3	31.6
11/02/22	05:14	42.3	37.3	35.7	33.8
11/02/22	05:29	45.6	40.3	38.2	35.1
11/02/22	05:44	46.5	39.8	38.2	36.3
11/02/22	05:59	49.0	43.1	40.7	37.3
11/02/22	06:14	53.7	43.6	42.1	39.6
11/02/22	06:29	70.4	54.4	51.4	43.2
11/02/22	06:44	72.5	53.0	51.9	42.6
	Arith. Average	45.1	35.5	33.8	30.6
	Log. Average	60.1	42.7	40.7	34.1
	Minimum	35.0	29.8	28.0	25.4
	Maximum	72.5	54.4	51.9	43.2
11/02/22	06:59	67.3	50.9	48.2	42.3
11/02/22	07:14	77.3	51.9	55.5	42.7
11/02/22	07:29	66.7	50.9	48.0	42.2
11/02/22	07:44	73.1	50.2	51.3	43.2
11/02/22	07:59	70.3	48.7	47.9	43.0
11/02/22	08:14	77.0	48.1	48.2	43.0
11/02/22	08:29	85.8	54.8	58.1	43.1
11/02/22	08:44	70.1	51.2	49.7	43.6
11/02/22	08:59	73.2	49.6	48.3	44.1
11/02/22	09:14	70.4	54.2	51.2	43.8
11/02/22	09:29	63.7	53.1	49.4	43.7
11/02/22	09:44	66.2	46.6	46.6	42.9
11/02/22	09:59	71.7	46.5	48.6	42.6
11/02/22	10:14	74.8	52.9	53.5	42.2
11/02/22	10:29	81.1	46.2	50.8	36.9
11/02/22	10:44	66.5	49.2	46.7	36.2
11/02/22	10:59	64.6	48.7	46.1	35.7
11/02/22	11:14	56.9	48.2	44.5	35.2
11/02/22	11:29	67.7	54.5	51.3	42.4
11/02/22	11:44	83.2	56.8	55.9	44.6
11/02/22	11:59	64.6	51.6	48.7	29.9

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
11/02/22	12:14	75.5	45.0	51.6	28.9
11/02/22	12:29	69.8	42.2	45.1	28.4
11/02/22	12:44	64.6	48.4	44.7	30.4
11/02/22	12:59	71.7	51.2	50.3	42.3
11/02/22	13:14	75.7	51.7	51.1	41.9
11/02/22	13:29	54.1	46.7	43.3	31.9
11/02/22	13:44	71.0	47.6	46.4	31.7
11/02/22	13:59	70.2	53.9	51.5	29.7
11/02/22	14:14	73.1	57.3	52.8	44.6
11/02/22	14:29	64.4	56.5	53.1	44.9
11/02/22	14:44	67.8	50.5	48.1	29.7
11/02/22	14:59	69.5	46.6	46.4	34.5
11/02/22	15:14	76.8	50.6	49.7	31.9
11/02/22	15:29	76.1	49.2	53.3	30.9
11/02/22	15:44	77.9	43.1	49.4	30.6
11/02/22	15:59	76.0	50.9	49.4	30.5
11/02/22	16:14	75.0	46.1	47.0	30.1
11/02/22	16:29	64.1	38.3	38.5	28.5
11/02/22	16:44	64.0	42.4	41.0	28.2
11/02/22	16:59	63.2	47.7	44.3	28.6
11/02/22	17:14	63.1	48.4	45.0	33.8
11/02/22	17:29	70.7	42.6	46.3	30.7
11/02/22	17:44	57.4	43.2	40.9	35.5
11/02/22	17:59	62.4	38.5	39.3	29.6
11/02/22	18:14	69.1	41.4	45.5	27.9
11/02/22	18:29	46.9	36.8	34.0	28.4
11/02/22	18:44	60.1	42.0	40.7	28.5
11/02/22	18:59	68.8	39.6	44.1	27.2
11/02/22	19:14	44.1	36.0	33.4	29.4
11/02/22	19:29	70.0	37.5	41.8	27.6
11/02/22	19:44	45.5	32.6	31.1	25.6
11/02/22	19:59	50.0	38.2	34.8	25.4
11/02/22	20:14	41.8	29.1	27.4	24.9
11/02/22	20:29	48.5	33.6	32.0	25.2
11/02/22	20:44	50.9	34.7	33.6	26.6
11/02/22	20:59	43.6	29.2	27.4	25.4
11/02/22	21:14	35.9	30.0	28.0	25.4
11/02/22	21:29	36.6	28.5	26.9	25.1
11/02/22	21:44	46.3	33.7	30.8	25.6
11/02/22	21:59	56.5	45.2	41.3	27.6
11/02/22	22:14	63.8	34.7	37.4	25.7
11/02/22	22:29	57.0	33.3	34.3	25.5
11/02/22	22:44	51.3	33.3	32.9	25.6
	Arith. Average	64.6	44.9	44.3	33.7
	Log. Average	73.4	49.5	48.8	38.7
	Minimum	35.9	28.5	26.9	24.9

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
	Maximum	85.8	57.3	58.1	44.9
11/02/22	22:59	49.1	34.2	31.7	25.0
11/02/22	23:14	38.4	28.9	27.0	25.0
11/02/22	23:29	37.5	28.5	26.7	24.8
11/02/22	23:44	43.7	27.8	26.4	24.1
11/02/22	23:59	50.6	33.2	31.4	24.5
12/02/22	00:14	39.2	26.7	26.1	24.5
12/02/22	00:29	42.0	34.2	31.2	26.8
12/02/22	00:44	58.4	41.1	39.4	26.4
12/02/22	00:59	42.1	33.6	30.8	26.9
12/02/22	01:14	56.9	35.2	33.0	27.6
12/02/22	01:29	46.2	34.1	31.6	27.7
12/02/22	01:44	42.1	33.8	31.1	27.2
12/02/22	01:59	41.0	31.9	29.8	26.7
12/02/22	02:14	46.9	36.6	33.6	28.0
12/02/22	02:29	43.3	36.6	33.9	29.3
12/02/22	02:44	47.5	35.7	33.4	28.6
12/02/22	02:59	48.1	34.4	32.3	28.9
12/02/22	03:14	43.0	37.3	34.3	29.5
12/02/22	03:29	69.1	36.6	40.9	29.1
12/02/22	03:44	70.5	32.3	39.9	27.4
12/02/22	03:59	46.7	34.7	32.6	28.8
12/02/22	04:14	44.6	38.5	35.2	28.5
12/02/22	04:29	46.5	35.9	33.5	28.8
12/02/22	04:44	50.4	38.0	35.1	30.1
12/02/22	04:59	44.9	37.0	34.5	31.1
12/02/22	05:14	49.1	41.5	38.3	33.7
12/02/22	05:29	49.6	40.5	38.3	34.6
12/02/22	05:44	47.1	40.0	37.8	34.3
12/02/22	05:59	55.3	41.0	39.3	34.5
12/02/22	06:14	55.9	43.1	40.2	36.2
12/02/22	06:29	56.5	45.6	42.8	37.7
12/02/22	06:44	71.3	54.1	50.7	38.5
	Arith. Average	49.2	36.3	34.5	29.2
	Log. Average	60.5	41.5	38.8	31.3
	Minimum	37.5	26.7	26.1	24.1
	Maximum	71.3	54.1	50.7	38.5
12/02/22	06:59	73.4	53.3	51.2	38.6
12/02/22	07:14	79.7	55.0	53.1	39.6
12/02/22	07:29	72.3	48.7	46.8	37.6
12/02/22	07:44	69.4	52.6	50.2	37.4
12/02/22	07:59	70.6	47.1	46.9	37.0
12/02/22	08:14	66.5	49.9	47.7	37.3
12/02/22	08:29	66.4	50.3	47.1	37.4

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
12/02/22	08:44	71.0	54.4	50.8	38.7
12/02/22	08:59	61.3	48.3	45.0	38.5
12/02/22	09:14	59.9	46.5	43.7	38.9
12/02/22	09:29	66.4	51.0	47.7	38.6
12/02/22	09:44	67.0	46.2	45.1	38.8
12/02/22	09:59	66.3	52.4	48.4	38.8
12/02/22	10:14	55.5	44.7	41.9	36.1
12/02/22	10:29	59.6	46.7	44.0	37.9
12/02/22	10:44	65.1	45.8	43.7	36.9
12/02/22	10:59	56.7	45.5	42.8	38.4
12/02/22	11:14	65.0	47.7	45.4	38.7
12/02/22	11:29	67.6	46.6	45.8	37.0
12/02/22	11:44	65.7	44.7	43.5	37.7
12/02/22	11:59	69.0	47.4	47.4	37.6
12/02/22	12:14	63.5	45.7	43.7	38.6
12/02/22	12:29	62.3	47.6	45.0	38.3
12/02/22	12:44	65.0	47.8	46.1	39.1
12/02/22	12:59	72.1	47.4	47.8	38.5
12/02/22	13:14	71.3	44.4	45.7	37.7
12/02/22	13:29	68.4	50.6	48.9	38.5
12/02/22	13:44	66.4	49.0	46.5	39.3
12/02/22	13:59	73.3	46.8	48.1	39.1
12/02/22	14:14	73.4	47.6	48.5	37.4
12/02/22	14:29	66.5	45.2	44.0	37.8
12/02/22	14:44	67.0	45.3	43.6	35.7
12/02/22	14:59	70.7	45.3	49.8	38.1
12/02/22	15:14	59.5	42.8	40.3	35.6
12/02/22	15:29	56.3	42.0	39.7	36.0
12/02/22	15:44	63.3	45.7	44.1	36.2
12/02/22	15:59	67.9	44.4	44.8	36.5
12/02/22	16:14	56.7	47.0	43.7	39.0
12/02/22	16:29	63.1	45.2	43.3	38.7
12/02/22	16:44	62.8	44.8	43.2	37.1
12/02/22	16:59	64.9	49.2	46.5	36.8
12/02/22	17:14	69.6	42.1	44.1	35.4
12/02/22	17:29	62.5	42.4	40.2	34.0
12/02/22	17:44	64.9	44.3	44.1	37.6
12/02/22	17:59	54.5	41.9	39.5	34.7
12/02/22	18:14	71.1	42.4	44.3	34.6
12/02/22	18:29	68.1	41.2	42.0	35.0
12/02/22	18:44	51.3	41.0	38.6	34.8
12/02/22	18:59	48.4	39.5	37.0	33.9
12/02/22	19:14	46.3	38.2	36.3	34.1
12/02/22	19:29	57.0	41.0	39.4	34.8
12/02/22	19:44	48.9	38.2	36.2	33.4
12/02/22	19:59	52.6	39.9	38.2	34.8

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
12/02/22	20:14	61.3	43.7	42.3	37.9
12/02/22	20:29	58.1	46.1	43.2	38.8
12/02/22	20:44	50.4	41.1	38.2	34.4
12/02/22	20:59	45.9	39.2	37.4	34.9
12/02/22	21:14	54.9	44.1	41.2	36.6
12/02/22	21:29	49.6	41.8	39.4	35.8
12/02/22	21:44	52.3	41.3	38.7	34.9
12/02/22	21:59	52.4	41.8	38.9	33.5
12/02/22	22:14	51.9	43.7	40.5	34.7
12/02/22	22:29	57.5	43.7	41.3	34.6
12/02/22	22:44	51.8	41.4	38.4	33.5
	Arith. Average	62.3	45.4	43.8	36.8
	Log. Average	67.8	47.3	45.5	37.2
	Minimum	45.9	38.2	36.2	33.4
	Maximum	79.7	55.0	53.1	39.6
12/02/22	22:59	54.7	43.8	40.4	34.1
12/02/22	23:14	59.5	45.7	43.4	40.1
12/02/22	23:29	57.3	43.8	42.3	37.8
12/02/22	23:44	48.2	40.6	37.9	34.1
12/02/22	23:59	50.6	41.2	38.1	33.5
13/02/22	00:14	55.5	39.6	37.7	33.8
13/02/22	00:29	48.8	37.2	34.5	30.8
13/02/22	00:44	45.2	38.1	35.0	30.7
13/02/22	00:59	46.5	38.9	36.4	33.0
13/02/22	01:14	52.6	39.5	36.9	33.7
13/02/22	01:29	50.7	39.2	37.3	33.2
13/02/22	01:44	51.3	40.6	38.5	35.0
13/02/22	01:59	54.5	42.9	40.4	36.1
13/02/22	02:14	51.0	42.7	40.2	36.3
13/02/22	02:29	50.0	42.7	39.7	35.6
13/02/22	02:44	50.2	42.1	39.4	35.5
13/02/22	02:59	51.9	42.6	40.1	37.1
13/02/22	03:14	52.9	42.9	40.5	37.4
13/02/22	03:29	50.3	44.8	42.2	38.7
13/02/22	03:44	49.6	43.7	41.3	37.9
13/02/22	03:59	54.9	42.7	40.8	37.7
13/02/22	04:14	62.5	43.9	41.6	36.6
13/02/22	04:29	51.6	42.9	40.6	37.0
13/02/22	04:44	56.7	42.6	39.9	35.6
13/02/22	04:59	49.8	40.1	37.8	35.1
13/02/22	05:14	51.0	43.0	40.4	36.5
13/02/22	05:29	58.9	45.5	42.6	37.2
13/02/22	05:44	56.5	45.1	42.3	37.9
13/02/22	05:59	54.8	45.6	42.7	37.9
13/02/22	06:14	51.5	44.4	41.5	37.4

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
13/02/22	06:29	75.4	49.2	49.1	38.4
13/02/22	06:44	61.5	46.9	44.7	38.5
	Arith. Average	53.6	42.6	40.2	35.9
	Log. Average	61.4	43.4	41.3	36.5
	Minimum	45.2	37.2	34.5	30.7
	Maximum	75.4	49.2	49.1	40.1
13/02/22	06:59	73.7	54.3	52.7	38.4
13/02/22	07:14	68.2	51.5	48.1	39.4
13/02/22	07:29	68.4	52.6	49.3	41.8
13/02/22	07:44	70.7	52.0	49.7	39.6
13/02/22	07:59	71.8	46.5	45.7	41.5
13/02/22	08:14	60.0	50.2	47.5	42.5
13/02/22	08:29	60.9	48.7	46.2	41.1
13/02/22	08:44	61.1	48.3	46.4	41.6
13/02/22	08:59	64.2	50.9	48.1	43.3
13/02/22	09:14	63.9	50.0	47.2	42.1
13/02/22	09:29	66.5	54.4	51.1	43.6
13/02/22	09:44	61.1	54.2	50.3	43.8
13/02/22	09:59	62.8	50.1	47.9	42.0
13/02/22	10:14	63.3	50.7	48.0	42.9
13/02/22	10:29	65.8	51.4	49.1	43.3
13/02/22	10:44	67.7	51.3	48.8	42.3
13/02/22	10:59	66.3	50.6	48.0	40.7
13/02/22	11:14	70.2	51.0	49.3	42.9
13/02/22	11:29	68.0	51.2	49.0	43.4
13/02/22	11:44	63.9	49.7	47.1	42.4
13/02/22	11:59	66.4	52.4	49.6	42.7
13/02/22	12:14	64.2	50.6	47.9	42.4
13/02/22	12:29	65.2	51.4	48.7	42.7
13/02/22	12:44	58.1	47.5	45.2	41.4
13/02/22	12:59	63.4	47.4	44.8	40.7
13/02/22	13:14	70.0	48.5	46.9	41.6
13/02/22	13:29	64.1	49.6	47.1	41.9
13/02/22	13:44	66.7	49.3	47.9	40.8
13/02/22	13:59	70.7	50.6	48.8	43.0
13/02/22	14:14	65.3	50.6	47.8	42.3
13/02/22	14:29	67.6	52.1	49.1	43.7
13/02/22	14:44	63.6	53.1	50.0	44.4
13/02/22	14:59	63.0	50.8	47.8	43.7
13/02/22	15:14	68.0	54.3	51.3	44.9
13/02/22	15:29	63.3	53.8	51.0	46.7
13/02/22	15:44	69.5	54.6	51.9	47.2
13/02/22	15:59	65.9	53.0	50.4	46.3
13/02/22	16:14	69.6	53.4	51.1	45.8
13/02/22	16:29	77.9	55.4	53.2	47.1

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
13/02/22	16:44	69.9	54.2	52.6	47.8
13/02/22	16:59	66.8	55.4	52.7	47.7
13/02/22	17:14	67.2	56.3	53.2	46.9
13/02/22	17:29	68.6	53.8	51.0	46.4
13/02/22	17:44	67.0	55.9	53.3	48.0
13/02/22	17:59	70.0	55.9	53.1	47.4
13/02/22	18:14	70.5	55.8	52.3	46.0
13/02/22	18:29	68.3	53.2	51.2	47.0
13/02/22	18:44	67.3	52.9	50.5	46.1
13/02/22	18:59	72.3	54.7	52.4	46.9
13/02/22	19:14	63.6	54.2	51.4	46.8
13/02/22	19:29	64.6	54.7	52.1	48.0
13/02/22	19:44	69.7	55.7	53.1	47.2
13/02/22	19:59	69.8	54.3	51.6	46.1
13/02/22	20:14	67.3	55.0	52.0	46.7
13/02/22	20:29	69.3	54.4	51.6	47.2
13/02/22	20:44	65.4	53.4	50.5	45.8
13/02/22	20:59	65.9	53.5	51.1	46.3
13/02/22	21:14	64.4	52.4	49.7	45.2
13/02/22	21:29	62.4	52.2	49.3	44.5
13/02/22	21:44	67.0	52.5	50.2	44.4
13/02/22	21:59	56.2	48.1	45.5	41.8
13/02/22	22:14	58.5	48.3	45.4	40.1
13/02/22	22:29	63.2	48.6	46.2	41.3
13/02/22	22:44	62.8	48.9	46.1	42.0
	Arith. Average	66.2	52.1	49.5	43.9
	Log. Average	68.0	52.7	50.1	44.6
	Minimum	56.2	46.5	44.8	38.4
	Maximum	77.9	56.3	53.3	48.0
13/02/22	22:59	66.8	49.5	47.3	41.5
13/02/22	23:14	60.1	48.9	46.4	41.6
13/02/22	23:29	46.7	40.3	36.9	32.1
13/02/22	23:44	48.3	30.4	29.3	27.8
13/02/22	23:59	41.3	30.6	29.4	28.0
14/02/22	00:14	41.5	34.5	32.0	28.8
14/02/22	00:29	44.8	36.5	33.7	28.9
14/02/22	00:44	49.1	36.7	33.8	30.1
14/02/22	00:59	40.8	33.6	31.3	28.3
14/02/22	01:14	47.6	34.9	32.0	28.1
14/02/22	01:29	40.6	30.3	28.8	27.1
14/02/22	01:44	40.6	30.2	28.7	27.2
14/02/22	01:59	41.3	30.4	28.6	26.8
14/02/22	02:14	41.1	32.6	30.9	28.9
14/02/22	02:29	40.6	32.1	30.5	28.7
14/02/22	02:44	40.4	34.1	31.7	29.2

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
14/02/22	02:59	40.8	32.0	30.0	27.6
14/02/22	03:14	43.6	35.7	32.5	27.9
14/02/22	03:29	46.9	35.9	33.2	29.6
14/02/22	03:44	41.2	32.8	30.2	28.1
14/02/22	03:59	46.0	37.9	35.0	31.1
14/02/22	04:14	46.2	37.9	35.2	31.7
14/02/22	04:29	45.2	36.4	34.2	31.3
14/02/22	04:44	45.7	37.3	34.9	32.2
14/02/22	04:59	43.3	35.8	33.7	31.2
14/02/22	05:14	44.0	37.5	35.0	31.8
14/02/22	05:29	78.5	38.2	48.6	32.6
14/02/22	05:44	48.9	38.0	35.7	32.6
14/02/22	05:59	72.7	42.1	51.3	34.4
14/02/22	06:14	66.1	42.4	42.6	35.6
14/02/22	06:29	76.4	53.1	51.2	37.9
14/02/22	06:44	66.2	53.6	50.0	37.9
	Arith. Average	49.5	37.3	35.8	31.1
	Log. Average	66.6	43.6	42.8	33.6
	Minimum	40.4	30.2	28.6	26.8
	Maximum	78.5	53.6	51.3	41.6
14/02/22	06:59	66.6	50.2	47.0	37.7
14/02/22	07:14	66.4	52.0	49.2	38.8
14/02/22	07:29	69.3	55.8	52.4	40.7
14/02/22	07:44	77.4	56.2	52.9	40.1
14/02/22	07:59	69.9	49.8	48.5	37.1
14/02/22	08:14	76.8	49.7	54.4	35.2
14/02/22	08:29	65.2	47.2	45.1	37.3
14/02/22	08:44	67.0	50.5	48.2	40.0
14/02/22	08:59	69.1	52.3	48.7	38.3
14/02/22	09:14	67.1	48.0	47.6	37.6
14/02/22	09:29	72.4	48.9	49.7	37.5
14/02/22	09:44	64.0	50.5	46.7	38.2
14/02/22	09:59	67.0	51.4	47.5	36.4
14/02/22	10:14	71.4	47.7	48.3	37.0
14/02/22	10:29	64.2	47.9	44.6	32.2
14/02/22	10:44	65.8	46.5	44.1	32.9
14/02/22	10:59	62.8	45.2	42.9	34.7
14/02/22	11:14	68.6	44.9	45.4	36.6
14/02/22	11:29	72.3	52.9	49.8	36.8
14/02/22	11:44	72.8	45.5	47.0	34.9
14/02/22	11:59	70.1	50.4	50.4	35.9
14/02/22	12:14	66.0	45.9	44.9	36.5
14/02/22	12:29	71.1	49.0	48.2	36.0
14/02/22	12:44	64.1	46.8	44.1	33.7
14/02/22	12:59	72.2	51.7	49.3	32.0

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
14/02/22	13:14	68.1	47.6	46.8	32.8
14/02/22	13:29	61.6	44.5	41.7	33.7
14/02/22	13:44	67.1	46.9	45.6	36.6
14/02/22	13:59	67.5	45.5	43.9	35.4
14/02/22	14:14	80.5	45.0	49.5	33.1
14/02/22	14:29	72.5	50.3	51.5	34.9
14/02/22	14:44	66.3	47.7	45.0	36.2
14/02/22	14:59	74.2	48.5	49.0	33.3
14/02/22	15:14	64.0	47.6	44.6	34.5
14/02/22	15:29	65.9	48.8	46.8	37.9
14/02/22	15:44	68.8	48.9	47.4	37.7
14/02/22	15:59	65.6	45.1	42.3	34.2
14/02/22	16:14	68.1	47.3	45.8	32.5
14/02/22	16:29	67.6	46.2	44.3	32.3
14/02/22	16:44	69.9	51.4	48.8	33.9
14/02/22	16:59	68.4	48.6	47.1	33.8
14/02/22	17:14	73.8	49.9	49.4	34.1
14/02/22	17:29	61.1	47.3	43.5	34.2
14/02/22	17:44	65.5	44.2	43.9	33.9
14/02/22	17:59	69.1	40.3	43.1	34.5
14/02/22	18:14	67.0	43.7	43.9	32.7
14/02/22	18:29	54.3	39.3	36.8	32.5
14/02/22	18:44	57.4	37.7	37.7	31.8
14/02/22	18:59	66.6	45.5	44.2	31.1
14/02/22	19:14	58.1	34.6	36.3	31.0
14/02/22	19:29	56.9	41.4	39.3	30.3
14/02/22	19:44	54.0	37.5	37.6	30.1
14/02/22	19:59	55.0	33.3	35.0	30.1
14/02/22	20:14	70.0	38.8	45.6	31.0
14/02/22	20:29	74.0	44.4	46.9	31.3
14/02/22	20:44	60.5	38.9	37.8	32.0
14/02/22	20:59	49.5	36.4	34.3	30.5
14/02/22	21:14	39.5	31.2	30.2	29.2
14/02/22	21:29	44.8	35.7	32.7	29.9
14/02/22	21:44	55.7	40.8	38.2	30.4
14/02/22	21:59	46.3	31.3	31.0	29.8
14/02/22	22:14	55.8	44.4	40.6	30.3
14/02/22	22:29	55.4	39.4	37.3	30.1
14/02/22	22:44	48.8	37.1	34.0	29.8
	Arith. Average	64.9	45.5	44.3	34.2
	Log. Average	69.7	48.2	46.8	35.2
	Minimum	39.5	31.2	30.2	29.2
	Maximum	80.5	56.2	54.4	40.7
14/02/22	22:59	40.2	31.8	30.5	29.1
14/02/22	23:14	43.4	34.1	32.5	29.7

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
14/02/22	23:29	40.3	30.8	29.9	28.8
14/02/22	23:44	39.4	32.0	30.7	29.4
14/02/22	23:59	36.5	30.3	29.4	28.4
15/02/22	00:14	32.0	29.9	29.1	28.4
15/02/22	00:29	37.7	30.5	29.5	28.5
15/02/22	00:44	40.1	30.5	30.1	28.5
15/02/22	00:59	36.0	29.1	28.4	27.8
15/02/22	01:14	32.9	29.2	28.4	27.7
15/02/22	01:29	47.6	29.5	29.5	27.7
15/02/22	01:44	38.2	32.7	30.8	28.9
15/02/22	01:59	37.6	31.6	30.2	29.0
15/02/22	02:14	42.0	30.4	29.4	28.4
15/02/22	02:29	33.9	29.8	29.0	28.3
15/02/22	02:44	36.6	32.8	30.9	29.0
15/02/22	02:59	40.3	31.6	30.6	29.5
15/02/22	03:14	39.4	32.1	30.4	28.7
15/02/22	03:29	41.6	33.0	31.4	29.5
15/02/22	03:44	37.4	31.8	30.4	29.0
15/02/22	03:59	70.5	36.9	44.3	29.4
15/02/22	04:14	45.9	31.9	30.9	29.1
15/02/22	04:29	41.9	32.6	31.0	29.2
15/02/22	04:44	46.1	33.2	31.8	30.2
15/02/22	04:59	41.7	33.1	31.9	30.6
15/02/22	05:14	46.1	36.5	33.6	30.8
15/02/22	05:29	44.2	36.0	33.6	30.5
15/02/22	05:44	44.1	36.9	34.4	31.5
15/02/22	05:59	45.0	38.9	36.3	32.6
15/02/22	06:14	71.2	43.0	44.2	34.2
15/02/22	06:29	68.8	54.0	50.1	36.0
15/02/22	06:44	70.2	55.0	51.4	37.5
	Arith. Average	44.0	34.1	33.0	29.9
	Log. Average	61.3	43.1	40.2	30.7
	Minimum	32.0	29.1	28.4	27.7
	Maximum	71.2	55.0	51.4	37.5
15/02/22	06:59	64.8	53.8	50.2	36.2
15/02/22	07:14	72.1	50.3	49.8	36.6
15/02/22	07:29	64.9	49.0	45.5	35.3
15/02/22	07:44	71.2	53.2	50.6	37.7
15/02/22	07:59	71.0	55.4	51.2	38.3
15/02/22	08:14	69.2	48.0	46.1	36.9
15/02/22	08:29	71.3	46.2	48.4	37.1
15/02/22	08:44	69.7	53.3	50.2	39.1
15/02/22	08:59	67.6	52.0	48.6	39.1
15/02/22	09:14	64.6	50.4	47.6	39.4
15/02/22	09:29	63.3	51.7	48.1	39.5

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
15/02/22	09:44	84.8	54.3	56.5	38.7
15/02/22	09:59	69.4	49.8	48.8	37.3
15/02/22	10:14	69.0	45.2	44.7	37.6
15/02/22	10:29	68.6	46.9	45.5	39.6
15/02/22	10:44	60.1	45.8	43.3	39.3
15/02/22	10:59	71.2	46.8	45.4	40.1
15/02/22	11:14	71.7	49.1	47.9	41.8
15/02/22	11:29	70.3	47.4	47.0	42.1
15/02/22	11:44	85.4	49.8	55.8	41.5
15/02/22	11:59	74.4	46.1	47.6	41.1
15/02/22	12:14	62.3	48.1	46.3	43.3
15/02/22	12:29	64.6	49.3	47.4	44.0
15/02/22	12:44	91.0	50.8	58.0	42.8
15/02/22	12:59	65.9	49.1	47.2	43.4
15/02/22	13:14	58.1	52.0	48.9	44.9
15/02/22	13:29	71.9	51.7	51.4	45.0
15/02/22	13:44	68.6	51.4	49.8	44.5
15/02/22	13:59	71.4	51.7	50.4	44.5
15/02/22	14:14	64.9	49.7	48.0	44.4
15/02/22	14:29	70.3	52.9	50.8	47.0
15/02/22	14:44	67.2	56.1	53.0	47.2
15/02/22	14:59	67.9	53.2	50.4	45.8
15/02/22	15:14	60.7	50.2	47.8	44.2
15/02/22	15:29	59.8	52.1	49.3	44.8
15/02/22	15:44	69.2	53.8	51.4	43.9
15/02/22	15:59	68.4	50.7	49.5	41.4
15/02/22	16:14	71.7	47.6	46.2	40.5
15/02/22	16:29	65.9	51.1	48.2	40.2
15/02/22	16:44	70.1	48.5	47.5	41.5
15/02/22	16:59	76.0	49.7	56.1	40.4
15/02/22	17:14	69.1	49.0	50.2	39.2
15/02/22	17:29	68.7	46.2	45.8	38.9
15/02/22	17:44	65.0	46.1	45.5	40.0
15/02/22	17:59	70.5	43.8	47.6	37.7
15/02/22	18:14	57.5	42.5	40.3	34.8
15/02/22	18:29	57.2	39.4	38.3	32.8
15/02/22	18:44	55.9	38.0	37.2	32.3
15/02/22	18:59	61.9	41.0	39.9	35.4
15/02/22	19:14	77.9	43.3	55.7	34.5
15/02/22	19:29	71.6	43.4	44.8	33.5
15/02/22	19:44	48.2	37.6	35.3	32.5
15/02/22	19:59	58.0	39.7	38.6	34.1
15/02/22	20:14	56.4	43.5	41.0	35.3
15/02/22	20:29	47.7	39.5	37.6	35.3
15/02/22	20:44	52.1	39.8	37.8	34.4
15/02/22	20:59	48.7	39.2	37.3	34.7

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
15/02/22	21:14	48.8	37.9	35.7	33.2
15/02/22	21:29	49.2	37.1	34.8	31.5
15/02/22	21:44	51.5	37.6	35.6	32.3
15/02/22	21:59	67.8	41.3	42.3	34.4
15/02/22	22:14	62.7	39.8	39.6	35.6
15/02/22	22:29	60.6	42.0	40.3	34.5
15/02/22	22:44	49.1	38.0	35.9	33.2
	Arith. Average	65.6	47.0	46.1	38.9
	Log. Average	75.7	49.5	49.3	40.8
	Minimum	47.7	37.1	34.8	31.5
	Maximum	91.0	56.1	58.0	47.2
15/02/22	22:59	41.5	35.2	33.6	31.6
15/02/22	23:14	45.5	35.0	33.3	30.8
15/02/22	23:29	48.7	34.9	33.5	31.8
15/02/22	23:44	49.3	42.1	39.4	31.6
15/02/22	23:59	49.4	41.5	39.1	35.9
16/02/22	00:14	57.5	44.2	42.5	40.2
16/02/22	00:29	53.4	41.8	40.1	37.4
16/02/22	00:44	51.1	43.2	41.2	38.9
16/02/22	00:59	53.2	46.1	44.0	41.0
16/02/22	01:14	57.7	46.9	44.5	40.4
16/02/22	01:29	51.9	45.7	43.4	39.9
16/02/22	01:44	51.7	46.0	43.0	38.9
16/02/22	01:59	52.8	45.8	43.7	40.3
16/02/22	02:14	50.6	46.0	43.4	40.2
16/02/22	02:29	54.9	48.2	45.8	41.9
16/02/22	02:44	52.4	47.0	44.7	41.8
16/02/22	02:59	52.8	48.9	46.6	43.9
16/02/22	03:14	51.0	46.5	43.8	39.5
16/02/22	03:29	55.4	45.3	43.1	40.1
16/02/22	03:44	48.6	43.3	41.2	38.4
16/02/22	03:59	50.6	43.2	40.5	36.3
16/02/22	04:14	46.9	42.3	40.0	36.7
16/02/22	04:29	47.7	41.0	38.3	34.5
16/02/22	04:44	42.1	37.1	34.8	32.1
16/02/22	04:59	47.0	40.7	38.0	34.3
16/02/22	05:14	46.3	38.5	35.8	32.7
16/02/22	05:29	46.7	39.9	37.6	34.3
16/02/22	05:44	43.6	38.4	36.1	33.7
16/02/22	05:59	49.3	41.3	39.3	35.8
16/02/22	06:14	67.0	44.1	43.0	37.3
16/02/22	06:29	75.3	56.3	53.3	39.3
16/02/22	06:44	73.2	57.5	53.8	39.7
	Arith. Average	52.0	43.6	41.3	37.2
	Log. Average	63.0	47.4	44.5	38.5

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
	Minimum	41.5	34.9	33.3	30.8
	Maximum	75.3	57.5	53.8	43.9
16/02/22	06:59	75.2	53.2	50.9	40.5
16/02/22	07:14	67.1	52.6	49.2	41.4
16/02/22	07:29	68.2	53.4	50.4	42.3
16/02/22	07:44	70.3	52.6	50.2	41.8
16/02/22	07:59	86.0	56.2	58.8	43.5
16/02/22	08:14	68.2	51.3	48.9	43.5
16/02/22	08:29	66.3	51.6	48.8	41.1
16/02/22	08:44	70.8	56.0	52.3	41.8
16/02/22	08:59	71.6	59.2	55.0	41.0
16/02/22	09:14	68.9	53.3	50.0	37.3
16/02/22	09:29	68.4	46.7	46.9	36.6
16/02/22	09:44	66.2	48.3	45.5	37.3
16/02/22	09:59	74.6	62.1	58.0	37.7
16/02/22	10:14	75.5	58.7	55.0	39.5
16/02/22	10:29	65.9	49.8	46.8	37.5
16/02/22	10:44	85.1	52.2	55.2	38.7
16/02/22	10:59	69.3	47.1	46.2	35.2
16/02/22	11:14	66.9	53.9	49.8	36.2
16/02/22	11:29	68.7	53.8	52.5	49.6
16/02/22	11:44	70.9	57.1	53.7	40.5
16/02/22	11:59	65.1	51.6	50.1	43.7
16/02/22	12:14	70.4	55.7	53.9	44.1
16/02/22	12:29	68.9	51.9	49.9	44.9
16/02/22	12:44	65.2	51.5	48.9	43.8
16/02/22	12:59	69.5	50.4	49.6	42.8
16/02/22	13:14	64.1	50.7	48.1	44.2
16/02/22	13:29	60.0	54.2	51.6	47.5
16/02/22	13:44	66.9	52.5	49.7	45.4
16/02/22	13:59	69.8	50.8	48.7	44.0
16/02/22	14:14	66.6	53.3	50.7	45.9
16/02/22	14:29	70.7	52.4	50.3	45.0
16/02/22	14:44	68.1	52.4	50.1	45.3
16/02/22	14:59	61.4	57.0	53.5	47.0
16/02/22	15:14	64.5	57.2	54.4	50.1
16/02/22	15:29	68.6	57.5	54.7	49.7
16/02/22	15:44	63.1	56.8	54.5	51.5
16/02/22	15:59	63.6	58.7	56.1	52.5
16/02/22	16:14	66.8	58.0	55.5	51.6
16/02/22	16:29	65.4	57.5	55.2	51.2
16/02/22	16:44	66.4	57.1	54.5	50.2
16/02/22	16:59	69.3	59.4	56.7	52.2
16/02/22	17:14	66.6	60.9	58.0	53.6
16/02/22	17:29	68.4	59.1	56.3	51.8

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
16/02/22	17:44	64.9	58.3	55.4	51.4
16/02/22	17:59	66.4	56.9	54.1	50.1
16/02/22	18:14	62.1	53.5	51.3	48.2
16/02/22	18:29	73.8	54.3	52.2	47.4
16/02/22	18:44	63.3	51.4	48.9	45.2
16/02/22	18:59	66.7	49.4	47.9	43.5
16/02/22	19:14	56.7	47.9	45.8	42.3
16/02/22	19:29	64.4	47.4	45.5	42.2
16/02/22	19:44	64.6	48.6	46.3	41.5
16/02/22	19:59	57.3	48.6	46.2	42.4
16/02/22	20:14	48.8	45.1	42.7	39.8
16/02/22	20:29	71.2	47.6	47.3	42.3
16/02/22	20:44	67.0	49.7	48.1	44.4
16/02/22	20:59	58.2	51.1	48.5	45.2
16/02/22	21:14	50.1	46.5	44.2	41.5
16/02/22	21:29	67.7	50.1	48.3	44.0
16/02/22	21:44	54.5	47.8	45.5	42.6
16/02/22	21:59	61.5	48.2	45.6	42.1
16/02/22	22:14	59.6	52.4	49.1	43.2
16/02/22	22:29	64.3	55.2	52.1	45.1
16/02/22	22:44	70.0	54.7	52.3	43.9
	Arith. Average	66.7	53.1	50.8	44.2
	Log. Average	72.5	54.9	52.4	46.5
	Minimum	48.8	45.1	42.7	35.2
	Maximum	86.0	62.1	58.8	53.6
16/02/22	22:59	60.6	52.5	48.6	40.4
16/02/22	23:14	58.9	51.8	48.5	42.8
16/02/22	23:29	57.7	51.3	47.5	41.6
16/02/22	23:44	59.5	54.0	50.0	43.0
16/02/22	23:59	53.4	49.0	45.4	38.9
17/02/22	00:14	51.9	43.4	40.7	36.8
17/02/22	00:29	53.7	42.9	40.3	36.4
17/02/22	00:44	52.5	45.6	42.8	38.7
17/02/22	00:59	48.9	40.4	37.5	32.0
17/02/22	01:14	57.1	44.3	41.6	33.3
17/02/22	01:29	52.5	46.6	43.3	37.4
17/02/22	01:44	58.0	47.4	44.5	39.5
17/02/22	01:59	59.8	52.8	48.6	41.6
17/02/22	02:14	63.8	52.4	48.0	39.0
17/02/22	02:29	49.3	43.1	40.2	36.4
17/02/22	02:44	55.3	43.0	39.9	34.3
17/02/22	02:59	50.1	43.0	39.0	33.6
17/02/22	03:14	55.0	45.8	42.4	37.7
17/02/22	03:29	56.5	47.2	44.1	39.2
17/02/22	03:44	55.6	48.7	44.4	37.4

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
17/02/22	03:59	45.7	41.2	38.4	34.2
17/02/22	04:14	50.8	41.2	38.3	32.9
17/02/22	04:29	51.0	43.6	41.0	37.0
17/02/22	04:44	54.1	47.4	43.4	36.5
17/02/22	04:59	53.2	44.4	41.8	37.7
17/02/22	05:14	56.6	47.5	44.7	39.2
17/02/22	05:29	52.7	47.1	43.6	38.4
17/02/22	05:44	50.6	44.7	41.6	37.4
17/02/22	05:59	51.1	41.4	39.2	35.4
17/02/22	06:14	66.4	46.1	45.0	37.1
17/02/22	06:29	76.2	55.4	54.8	36.7
17/02/22	06:44	88.8	73.4	69.8	40.2
	Arith. Average	56.5	47.5	44.3	37.6
	Log. Average	74.1	58.8	55.2	38.4
	Minimum	45.7	40.4	37.5	32.0
	Maximum	88.8	73.4	69.8	43.0
17/02/22	06:59	82.7	48.4	57.2	37.3
17/02/22	07:14	75.3	53.0	51.6	41.7
17/02/22	07:29	71.6	53.1	53.4	39.6
17/02/22	07:44	63.9	50.1	46.5	35.6
17/02/22	07:59	65.4	51.0	47.3	37.4
17/02/22	08:14	76.4	59.6	56.8	37.2
17/02/22	08:29	70.8	49.7	50.1	38.9
17/02/22	08:44	71.4	50.6	49.2	39.1
17/02/22	08:59	71.3	52.5	51.2	41.9
17/02/22	09:14	70.1	51.4	49.9	39.6
17/02/22	09:29	67.5	50.3	47.3	37.8
17/02/22	09:44	67.1	51.0	48.7	40.8
17/02/22	09:59	67.3	53.0	49.8	42.7
17/02/22	10:14	68.0	54.8	50.8	40.3
17/02/22	10:29	76.8	51.5	50.8	40.1
17/02/22	10:44	65.0	50.2	47.1	40.9
17/02/22	10:59	75.1	52.4	53.7	43.9
17/02/22	11:14	65.9	47.3	45.2	37.7
17/02/22	11:29	61.4	44.6	42.5	36.3
17/02/22	11:44	67.3	47.4	46.0	38.6
17/02/22	11:59	74.8	50.4	50.2	36.1
17/02/22	12:14	78.3	46.6	50.7	37.2
17/02/22	12:29	61.2	45.6	42.8	35.8
17/02/22	12:44	66.2	45.0	43.2	37.8
17/02/22	12:59	64.6	45.8	44.8	36.9
17/02/22	13:14	67.9	49.5	46.9	40.5
17/02/22	13:29	73.6	45.1	46.6	37.5
17/02/22	13:44	69.6	52.7	49.6	40.3
17/02/22	13:59	68.2	56.2	51.4	41.6

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
17/02/22	14:14	67.6	49.5	47.7	41.5
17/02/22	14:29	65.8	47.8	45.8	40.4
17/02/22	14:44	66.4	48.2	46.3	39.4
17/02/22	14:59	70.2	46.2	46.8	39.8
17/02/22	15:14	76.7	47.6	49.5	38.0
17/02/22	15:29	72.6	50.4	50.2	38.5
17/02/22	15:44	55.2	44.3	41.6	36.8
17/02/22	15:59	68.1	45.1	44.7	36.5
17/02/22	16:14	67.9	40.9	42.1	35.0
17/02/22	16:29	71.4	49.4	48.9	35.2
17/02/22	16:44	69.3	47.7	45.4	34.6
17/02/22	16:59	72.3	48.3	46.8	35.2
17/02/22	17:14	68.5	48.9	46.8	34.4
17/02/22	17:29	73.8	51.7	53.9	34.9
17/02/22	17:44	76.4	43.6	48.0	35.1
17/02/22	17:59	54.5	39.9	38.2	33.6
17/02/22	18:14	61.7	35.7	38.8	31.1
17/02/22	18:29	51.3	36.1	34.8	30.8
17/02/22	18:44	66.6	35.7	38.1	31.6
17/02/22	18:59	50.0	36.3	35.1	32.0
17/02/22	19:14	39.2	34.5	33.2	32.0
17/02/22	19:29	67.7	36.8	42.2	31.6
17/02/22	19:44	44.4	36.5	34.6	32.2
17/02/22	19:59	70.1	36.9	43.1	31.1
17/02/22	20:14	65.2	35.2	38.2	31.5
17/02/22	20:29	39.5	34.8	32.9	31.0
17/02/22	20:44	62.9	41.8	41.1	31.5
17/02/22	20:59	57.3	36.0	37.8	30.7
17/02/22	21:14	67.5	39.1	41.1	29.9
17/02/22	21:29	37.3	31.9	30.5	29.1
17/02/22	21:44	51.0	35.5	33.7	29.2
17/02/22	21:59	57.3	43.3	39.1	30.5
17/02/22	22:14	53.4	39.2	36.4	31.0
17/02/22	22:29	51.4	37.7	34.7	29.2
17/02/22	22:44	58.8	38.9	38.1	29.1
	Arith. Average	65.2	45.5	44.8	36.0
	Log. Average	71.2	49.3	48.4	37.7
	Minimum	37.3	31.9	30.5	29.1
	Maximum	82.7	59.6	57.2	43.9
17/02/22	22:59	50.2	36.2	32.4	28.0
17/02/22	23:14	65.8	33.9	39.9	27.8
17/02/22	23:29	52.3	35.7	34.3	28.4
17/02/22	23:44	43.2	34.4	32.9	29.9
17/02/22	23:59	48.6	37.7	34.4	30.1
18/02/22	00:14	40.0	33.7	31.7	29.5

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
18/02/22	00:29	51.7	37.8	35.1	31.1
18/02/22	00:44	49.0	40.2	36.9	30.4
18/02/22	00:59	48.6	38.5	36.3	33.2
18/02/22	01:14	56.0	44.3	41.0	33.2
18/02/22	01:29	58.5	47.4	44.8	39.2
18/02/22	01:44	62.5	47.9	45.6	39.4
18/02/22	01:59	59.1	50.1	46.4	39.9
18/02/22	02:14	57.2	44.7	41.8	37.1
18/02/22	02:29	64.4	45.5	43.9	38.7
18/02/22	02:44	59.0	46.9	44.8	39.2
18/02/22	02:59	64.1	50.3	47.2	42.2
18/02/22	03:14	66.6	50.4	48.0	43.7
18/02/22	03:29	66.4	53.8	50.7	44.4
18/02/22	03:44	66.9	52.7	50.2	45.9
18/02/22	03:59	60.0	52.1	49.0	44.7
18/02/22	04:14	63.5	52.5	49.6	44.3
18/02/22	04:29	57.0	48.8	46.7	43.8
18/02/22	04:44	65.9	50.9	48.5	44.4
18/02/22	04:59	69.9	54.0	50.8	45.3
18/02/22	05:14	69.7	52.3	50.5	46.2
18/02/22	05:29	61.5	51.9	49.7	46.0
18/02/22	05:44	65.9	53.1	50.9	47.1
18/02/22	05:59	89.7	55.2	55.9	47.3
18/02/22	06:14	63.5	55.0	52.1	48.1
18/02/22	06:29	68.2	54.0	51.4	46.4
18/02/22	06:44	75.0	58.7	55.5	47.6
	Arith. Average	60.6	46.9	44.7	39.5
	Log. Average	75.1	51.0	48.6	43.1
	Minimum	40.0	33.7	31.7	27.8
	Maximum	89.7	58.7	55.9	48.1
18/02/22	06:59	75.7	61.0	58.1	49.4
18/02/22	07:14	66.6	56.7	53.9	49.9
18/02/22	07:29	72.5	61.6	57.7	49.8
18/02/22	07:44	74.3	63.0	58.7	50.1
18/02/22	07:59	74.2	58.9	56.7	49.2
18/02/22	08:14	76.2	64.1	59.6	50.4
18/02/22	08:29	70.0	57.6	54.3	48.6
18/02/22	08:44	65.9	55.8	53.2	49.3
18/02/22	08:59	67.6	57.4	55.0	51.2
18/02/22	09:14	69.9	58.7	55.8	50.5
18/02/22	09:29	74.7	61.4	58.4	52.7
18/02/22	09:44	71.6	61.9	59.1	54.6
18/02/22	09:59	71.4	63.9	61.1	56.3
18/02/22	10:14	67.1	62.0	59.5	56.0
18/02/22	10:29	67.6	61.1	58.3	54.6

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
18/02/22	10:44	70.0	64.8	62.0	57.4
18/02/22	10:59	75.0	69.2	66.0	61.0
18/02/22	11:14	76.1	70.9	68.1	63.9
18/02/22	11:29	77.7	68.0	65.1	59.7
18/02/22	11:44	77.1	69.2	66.6	62.2
18/02/22	11:59	81.7	70.4	67.5	61.8
18/02/22	12:14	78.9	71.9	69.1	64.7
18/02/22	12:29	74.1	67.5	64.5	59.5
18/02/22	12:44	75.0	68.3	65.2	59.7
18/02/22	12:59	76.7	66.4	63.5	59.0
18/02/22	13:14	72.8	64.9	61.7	57.0
18/02/22	13:29	73.9	66.9	63.6	57.5
18/02/22	13:44	73.6	68.1	65.1	60.2
18/02/22	13:59	76.4	67.1	63.9	58.6
18/02/22	14:14	74.5	64.5	61.8	56.8
18/02/22	14:29	72.2	64.6	60.6	54.0
18/02/22	14:44	70.4	63.7	60.0	54.0
18/02/22	14:59	71.7	64.6	60.7	52.0
18/02/22	15:14	72.0	63.0	59.6	53.7
18/02/22	15:29	72.8	66.6	62.0	52.3
18/02/22	15:44	72.0	59.9	56.7	48.5
18/02/22	15:59	70.8	59.8	56.8	49.1
18/02/22	16:14	70.1	58.5	56.0	47.8
18/02/22	16:29	69.4	59.4	55.2	45.4
18/02/22	16:44	62.3	53.0	50.1	45.7
18/02/22	16:59	74.1	55.9	53.6	45.6
18/02/22	17:14	71.3	55.1	52.8	46.8
18/02/22	17:29	69.5	52.3	49.8	44.6
18/02/22	17:44	60.2	50.3	48.0	43.9
18/02/22	17:59	60.0	54.0	50.9	44.5
18/02/22	18:14	71.2	64.0	60.1	49.5
18/02/22	18:29	72.4	56.1	52.8	46.3
18/02/22	18:44	66.3	55.6	52.7	46.5
18/02/22	18:59	55.9	50.1	47.0	43.0
18/02/22	19:14	53.4	47.9	45.0	40.3
18/02/22	19:29	69.9	49.9	46.6	40.2
18/02/22	19:44	52.9	46.6	43.6	38.4
18/02/22	19:59	59.5	52.9	50.2	45.3
18/02/22	20:14	57.4	52.2	48.9	43.3
18/02/22	20:29	58.9	48.6	45.2	40.1
18/02/22	20:44	60.0	51.8	49.1	44.2
18/02/22	20:59	68.8	52.1	49.7	41.7
18/02/22	21:14	54.8	49.1	45.9	39.3
18/02/22	21:29	51.1	45.1	41.9	37.9
18/02/22	21:44	57.6	44.6	42.4	38.7
18/02/22	21:59	59.6	46.6	43.7	39.5

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
18/02/22	22:14	64.5	49.2	46.5	40.2
18/02/22	22:29	59.2	44.9	42.3	38.2
18/02/22	22:44	58.6	45.1	41.8	37.3
	Arith. Average	68.6	58.7	55.6	49.8
	Log. Average	72.6	63.6	60.5	55.3
	Minimum	51.1	44.6	41.8	37.3
	Maximum	81.7	71.9	69.1	64.7
18/02/22	22:59	54.7	44.8	41.9	36.7
18/02/22	23:14	60.8	42.8	42.1	34.3
18/02/22	23:29	50.6	35.7	34.0	30.8
18/02/22	23:44	47.7	37.0	34.6	31.1
18/02/22	23:59	59.0	38.5	37.5	33.1
19/02/22	00:14	52.1	42.9	40.5	36.5
19/02/22	00:29	59.8	44.5	41.8	36.8
19/02/22	00:44	49.0	42.7	40.0	34.8
19/02/22	00:59	49.0	41.2	38.4	32.8
19/02/22	01:14	48.7	39.6	37.5	35.3
19/02/22	01:29	58.4	45.3	41.7	37.1
19/02/22	01:44	61.6	44.8	41.9	36.9
19/02/22	01:59	50.5	44.8	41.5	36.4
19/02/22	02:14	59.8	44.2	41.5	37.2
19/02/22	02:29	51.8	45.8	42.2	36.9
19/02/22	02:44	49.5	43.1	40.2	36.0
19/02/22	02:59	47.3	38.6	36.5	33.4
19/02/22	03:14	46.0	40.4	37.5	33.5
19/02/22	03:29	69.2	43.5	44.4	34.1
19/02/22	03:44	47.4	41.0	38.4	34.4
19/02/22	03:59	48.3	39.3	36.3	32.0
19/02/22	04:14	50.3	40.5	37.8	33.9
19/02/22	04:29	49.2	37.8	35.2	31.8
19/02/22	04:44	41.0	32.0	30.3	28.7
19/02/22	04:59	36.9	29.7	28.5	27.1
19/02/22	05:14	43.5	35.1	32.1	28.0
19/02/22	05:29	46.6	38.2	35.9	32.2
19/02/22	05:44	47.3	40.3	38.2	35.7
19/02/22	05:59	53.4	40.6	38.1	34.4
19/02/22	06:14	63.8	51.3	47.4	35.7
19/02/22	06:29	75.6	58.5	56.2	36.9
19/02/22	06:44	73.4	56.9	54.4	37.6
	Arith. Average	53.2	41.9	39.5	34.1
	Log. Average	63.8	47.4	45.0	34.8
	Minimum	36.9	29.7	28.5	27.1
	Maximum	75.6	58.5	56.2	37.6
19/02/22	06:59	71.6	54.0	51.2	37.2

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
19/02/22	07:14	63.6	48.2	44.7	35.8
19/02/22	07:29	73.9	52.7	51.5	35.7
19/02/22	07:44	68.9	47.4	45.7	32.6
19/02/22	07:59	65.6	51.4	48.4	33.2
19/02/22	08:14	69.3	55.2	52.1	36.3
19/02/22	08:29	67.4	49.6	48.0	36.3
19/02/22	08:44	63.5	46.6	44.6	37.4
19/02/22	08:59	73.3	58.4	53.9	38.6
19/02/22	09:14	66.2	48.7	47.4	38.7
19/02/22	09:29	67.9	49.6	48.0	40.7
19/02/22	09:44	67.1	49.3	47.3	40.4
19/02/22	09:59	64.5	50.9	47.3	37.8
19/02/22	10:14	74.0	56.3	54.7	41.6
19/02/22	10:29	69.2	47.6	47.5	39.3
19/02/22	10:44	69.2	48.9	49.1	38.2
19/02/22	10:59	69.8	50.2	49.1	40.1
19/02/22	11:14	66.1	49.9	47.8	42.6
19/02/22	11:29	59.5	49.7	47.0	42.8
19/02/22	11:44	69.4	49.4	48.5	41.8
19/02/22	11:59	72.2	49.6	48.6	42.4
19/02/22	12:14	66.1	53.5	50.7	45.4
19/02/22	12:29	65.3	55.5	52.9	49.6
19/02/22	12:44	66.3	54.2	52.3	49.5
19/02/22	12:59	71.9	59.3	56.5	51.8
19/02/22	13:14	69.7	56.9	54.8	51.3
19/02/22	13:29	72.6	55.5	53.7	49.2
19/02/22	13:44	68.7	53.5	52.0	49.0
19/02/22	13:59	68.2	55.8	53.6	49.1
19/02/22	14:14	71.1	59.7	57.1	52.4
19/02/22	14:29	71.1	59.6	57.0	52.4
19/02/22	14:44	65.8	59.2	56.9	53.7
19/02/22	14:59	67.6	59.6	56.8	52.2
19/02/22	15:14	63.1	57.2	54.9	51.6
19/02/22	15:29	65.9	56.8	54.4	50.6
19/02/22	15:44	66.4	55.2	52.5	48.2
19/02/22	15:59	58.5	52.4	50.1	46.8
19/02/22	16:14	66.1	53.0	50.4	45.3
19/02/22	16:29	70.6	52.3	51.0	43.5
19/02/22	16:44	73.6	53.9	51.1	42.4
19/02/22	16:59	77.2	52.4	51.1	42.9
19/02/22	17:14	75.2	51.4	50.5	42.1
19/02/22	17:29	66.1	47.8	46.1	41.2
19/02/22	17:44	63.8	45.8	44.0	38.0
19/02/22	17:59	60.9	46.6	44.5	40.6
19/02/22	18:14	68.5	43.6	45.4	35.7
19/02/22	18:29	67.6	44.0	43.6	35.3

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
19/02/22	18:44	75.0	49.7	52.5	39.0
19/02/22	18:59	66.1	45.4	44.2	38.3
19/02/22	19:14	68.4	45.6	44.8	35.6
19/02/22	19:29	53.5	43.1	40.1	35.3
19/02/22	19:44	58.7	44.2	41.0	33.5
19/02/22	19:59	55.0	44.0	40.1	34.1
19/02/22	20:14	64.9	39.0	40.2	32.6
19/02/22	20:29	57.2	37.2	37.2	31.3
19/02/22	20:44	69.3	37.7	43.4	29.6
19/02/22	20:59	41.8	34.4	32.2	29.7
19/02/22	21:14	47.4	35.3	33.3	30.4
19/02/22	21:29	54.2	38.1	36.0	30.7
19/02/22	21:44	43.5	34.8	33.2	31.3
19/02/22	21:59	54.2	42.8	39.7	32.9
19/02/22	22:14	71.1	40.7	45.6	34.9
19/02/22	22:29	72.3	38.8	46.9	31.1
19/02/22	22:44	67.5	44.2	44.5	35.4
	Arith. Average	65.9	49.3	47.8	40.4
	Log. Average	69.3	53.1	50.9	45.4
	Minimum	41.8	34.4	32.2	29.6
	Maximum	77.2	59.7	57.1	53.7
19/02/22	22:59	64.7	40.6	41.1	35.5
19/02/22	23:14	51.1	38.9	36.8	33.7
19/02/22	23:29	58.6	39.9	38.5	34.1
19/02/22	23:44	70.3	42.0	47.8	33.4
19/02/22	23:59	59.6	37.4	38.5	31.7
20/02/22	00:14	56.1	38.6	38.7	33.9
20/02/22	00:29	46.7	37.7	36.0	33.5
20/02/22	00:44	52.9	40.4	38.9	35.8
20/02/22	00:59	67.1	40.8	42.5	36.2
20/02/22	01:14	49.0	42.8	40.7	38.0
20/02/22	01:29	51.2	46.8	44.5	41.5
20/02/22	01:44	52.7	46.2	44.0	41.2
20/02/22	01:59	51.0	44.7	42.4	39.7
20/02/22	02:14	48.4	43.8	41.7	39.1
20/02/22	02:29	53.9	46.3	43.5	39.8
20/02/22	02:44	55.6	45.1	43.2	39.4
20/02/22	02:59	48.8	43.8	41.2	38.0
20/02/22	03:14	49.8	43.3	41.0	37.8
20/02/22	03:29	52.0	46.1	43.1	39.5
20/02/22	03:44	51.7	45.3	42.5	38.8
20/02/22	03:59	50.6	43.7	41.5	38.4
20/02/22	04:14	51.6	43.6	41.4	38.5
20/02/22	04:29	51.3	46.7	43.5	38.9
20/02/22	04:44	54.2	46.4	43.3	38.4

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
20/02/22	04:59	52.2	44.5	42.4	38.3
20/02/22	05:14	51.9	45.5	42.7	38.6
20/02/22	05:29	54.7	44.8	42.4	38.6
20/02/22	05:44	50.8	44.1	41.8	38.6
20/02/22	05:59	54.1	44.7	42.5	39.3
20/02/22	06:14	58.9	47.0	44.6	40.9
20/02/22	06:29	75.8	60.9	58.5	44.1
20/02/22	06:44	78.1	66.8	61.4	43.2
	Arith. Average	55.5	44.7	42.9	38.0
	Log. Average	66.0	53.3	49.1	38.9
	Minimum	46.7	37.4	36.0	31.7
	Maximum	78.1	66.8	61.4	44.1
20/02/22	06:59	74.3	57.8	54.9	43.4
20/02/22	07:14	68.8	54.9	51.8	44.3
20/02/22	07:29	70.1	52.2	50.2	45.3
20/02/22	07:44	60.2	52.2	49.8	46.0
20/02/22	07:59	62.1	52.7	50.0	45.2
20/02/22	08:14	70.3	55.6	53.4	46.0
20/02/22	08:29	62.0	53.7	51.0	46.6
20/02/22	08:44	64.3	54.9	52.1	47.0
20/02/22	08:59	62.8	52.5	49.8	45.4
20/02/22	09:14	66.7	54.6	51.9	47.6
20/02/22	09:29	60.8	54.3	51.6	48.2
20/02/22	09:44	77.6	57.4	57.1	49.8
20/02/22	09:59	71.9	58.1	55.3	49.9
20/02/22	10:14	69.5	58.0	55.4	51.9
20/02/22	10:29	76.8	60.0	58.7	51.8
20/02/22	10:44	73.9	57.8	55.8	50.5
20/02/22	10:59	68.3	56.8	54.2	50.1
20/02/22	11:14	71.1	58.1	56.3	50.3
20/02/22	11:29	73.8	57.3	55.5	47.7
20/02/22	11:44	62.5	54.5	51.6	47.2
20/02/22	11:59	72.6	54.4	52.4	48.1
20/02/22	12:14	64.4	55.6	52.9	48.1
20/02/22	12:29	66.6	53.4	50.8	47.3
20/02/22	12:44	66.7	55.9	53.2	49.1
20/02/22	12:59	68.6	55.2	52.8	49.0
20/02/22	13:14	64.3	56.1	53.1	48.6
20/02/22	13:29	70.1	57.1	54.5	49.7
20/02/22	13:44	65.5	56.2	53.5	49.5
20/02/22	13:59	66.0	57.1	54.5	50.7
20/02/22	14:14	75.3	57.2	55.1	51.7
20/02/22	14:29	68.9	58.3	55.7	51.6
20/02/22	14:44	70.6	58.1	55.5	51.0
20/02/22	14:59	68.9	57.8	54.8	50.7

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
20/02/22	15:14	66.6	59.2	56.2	51.8
20/02/22	15:29	81.3	58.3	56.1	51.7
20/02/22	15:44	69.0	59.1	56.8	53.3
20/02/22	15:59	68.0	60.6	57.6	53.0
20/02/22	16:14	75.4	58.8	57.0	52.9
20/02/22	16:29	70.0	59.5	57.1	53.6
20/02/22	16:44	68.6	58.5	56.4	52.8
20/02/22	16:59	64.0	57.1	55.0	52.3
20/02/22	17:14	73.1	59.1	56.9	53.2
20/02/22	17:29	75.3	60.3	58.2	54.2
20/02/22	17:44	65.9	60.4	57.8	54.2
20/02/22	17:59	70.4	60.9	58.2	54.2
20/02/22	18:14	66.7	61.4	58.9	55.4
20/02/22	18:29	71.4	64.9	62.3	58.6
20/02/22	18:44	72.0	64.3	62.0	58.4
20/02/22	18:59	74.5	64.0	61.7	56.7
20/02/22	19:14	71.5	64.8	61.2	55.9
20/02/22	19:29	76.1	67.2	63.7	57.3
20/02/22	19:44	69.7	63.0	59.2	49.4
20/02/22	19:59	73.1	60.8	57.8	52.4
20/02/22	20:14	64.9	56.5	53.6	48.7
20/02/22	20:29	63.2	56.4	53.4	47.6
20/02/22	20:44	64.3	55.8	52.8	45.8
20/02/22	20:59	62.2	57.5	54.1	48.6
20/02/22	21:14	61.5	53.1	49.4	42.7
20/02/22	21:29	65.8	58.1	53.9	42.1
20/02/22	21:44	61.4	54.5	50.5	43.6
20/02/22	21:59	63.1	53.3	50.1	44.9
20/02/22	22:14	65.5	59.0	55.7	49.3
20/02/22	22:29	66.2	55.0	51.1	44.2
20/02/22	22:44	58.8	52.9	50.1	45.0
	Arith. Average	68.4	57.5	54.8	49.7
	Log. Average	71.2	59.0	56.3	51.5
	Minimum	58.8	52.2	49.4	42.1
	Maximum	81.3	67.2	63.7	58.6
20/02/22	22:59	60.0	53.5	50.3	44.1
20/02/22	23:14	56.3	48.8	45.5	39.6
20/02/22	23:29	54.4	49.3	46.6	42.8
20/02/22	23:44	64.1	56.1	52.1	43.8
20/02/22	23:59	61.5	55.1	51.6	46.7
21/02/22	00:14	66.5	55.5	52.3	43.8
21/02/22	00:29	57.1	52.4	49.6	45.4
21/02/22	00:44	70.6	51.2	50.9	42.5
21/02/22	00:59	51.4	47.3	43.8	35.9
21/02/22	01:14	38.5	33.3	31.4	29.7

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
21/02/22	01:29	61.9	45.6	42.7	34.3
21/02/22	01:44	57.4	51.4	47.9	41.9
21/02/22	01:59	56.7	49.9	46.8	42.1
21/02/22	02:14	63.7	49.3	46.8	42.7
21/02/22	02:29	63.2	50.0	47.4	41.7
21/02/22	02:44	56.1	51.3	48.3	43.3
21/02/22	02:59	62.4	54.5	50.6	43.6
21/02/22	03:14	54.8	48.9	45.4	37.0
21/02/22	03:29	49.7	44.5	41.9	38.1
21/02/22	03:44	49.8	43.5	40.7	36.2
21/02/22	03:59	49.9	44.6	42.1	38.6
21/02/22	04:14	52.4	45.4	43.1	39.3
21/02/22	04:29	56.7	44.6	42.1	37.4
21/02/22	04:44	50.9	43.9	41.1	37.1
21/02/22	04:59	53.4	44.2	42.0	37.3
21/02/22	05:14	53.4	45.8	42.7	38.8
21/02/22	05:29	51.9	45.7	43.7	40.4
21/02/22	05:44	55.7	48.5	45.5	41.7
21/02/22	05:59	56.0	47.4	44.7	40.7
21/02/22	06:14	74.0	52.3	52.9	43.4
21/02/22	06:29	82.3	61.5	59.2	43.9
21/02/22	06:44	73.9	51.8	50.7	45.2
	Arith. Average	58.3	49.0	46.3	40.6
	Log. Average	69.0	51.9	49.3	41.9
	Minimum	38.5	33.3	31.4	29.7
	Maximum	82.3	61.5	59.2	46.7
21/02/22	06:59	74.5	55.0	54.4	47.2
21/02/22	07:14	62.2	54.5	51.7	46.7
21/02/22	07:29	70.5	54.3	52.2	46.6
21/02/22	07:44	69.1	56.3	53.4	48.3
21/02/22	07:59	67.8	58.6	55.1	49.5
21/02/22	08:14	67.9	58.6	56.0	50.2
21/02/22	08:29	68.4	56.6	53.8	49.6
21/02/22	08:44	66.3	60.7	57.3	52.0
21/02/22	08:59	70.4	60.7	57.3	51.1
21/02/22	09:14	74.9	64.2	61.6	53.3
21/02/22	09:29	80.1	63.0	60.0	54.0
21/02/22	09:44	74.2	62.3	59.4	53.5
21/02/22	09:59	70.7	63.7	60.4	54.1
21/02/22	10:14	76.5	62.6	60.2	52.3
21/02/22	10:29	72.1	61.6	58.6	51.8
21/02/22	10:44	71.2	62.8	59.3	51.9
21/02/22	10:59	74.7	63.7	59.4	51.6
21/02/22	11:14	68.7	61.1	58.0	52.3
21/02/22	11:29	68.7	58.9	55.7	50.2

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
21/02/22	11:44	70.9	58.7	55.2	47.9
21/02/22	11:59	68.4	57.1	53.7	46.9
21/02/22	12:14	68.8	57.6	55.0	47.4
21/02/22	12:29	65.9	58.9	55.2	49.1
21/02/22	12:44	67.8	60.3	56.7	49.7
21/02/22	12:59	74.3	62.5	59.0	49.4
21/02/22	13:14	69.8	61.0	57.5	48.8
21/02/22	13:29	70.3	60.0	56.8	50.3
21/02/22	13:44	74.6	62.8	59.2	48.8
21/02/22	13:59	67.8	61.0	56.7	47.7
21/02/22	14:14	70.9	54.3	51.5	44.4
21/02/22	14:29	73.7	55.3	53.6	44.8
21/02/22	14:44	64.8	56.2	52.8	43.7
21/02/22	14:59	59.5	52.1	49.1	43.9
21/02/22	15:14	69.7	52.4	49.1	40.1
21/02/22	15:29	63.7	55.4	50.9	40.8
21/02/22	15:44	64.0	52.5	49.3	42.7
21/02/22	15:59	64.7	53.3	50.0	42.9
21/02/22	16:14	66.3	53.1	49.5	41.4
21/02/22	16:29	66.6	46.4	44.9	38.6
21/02/22	16:44	70.9	50.5	48.2	39.3
21/02/22	16:59	73.0	50.4	49.3	40.2
21/02/22	17:14	67.5	47.5	45.6	38.4
21/02/22	17:29	74.9	51.2	53.8	37.7
21/02/22	17:44	67.5	42.6	42.4	36.6
21/02/22	17:59	67.0	43.3	44.0	37.7
21/02/22	18:14	63.7	38.1	38.8	33.4
21/02/22	18:29	46.4	37.3	35.3	32.9
21/02/22	18:44	64.4	37.7	41.0	32.8
21/02/22	18:59	50.7	38.7	36.2	33.1
21/02/22	19:14	62.8	38.0	39.0	33.3
21/02/22	19:29	52.3	39.2	36.8	32.0
21/02/22	19:44	68.5	34.0	41.7	30.6
21/02/22	19:59	44.5	34.6	32.8	30.4
21/02/22	20:14	48.6	37.3	34.4	30.8
21/02/22	20:29	46.8	33.9	33.3	30.4
21/02/22	20:44	55.8	37.3	36.8	30.1
21/02/22	20:59	59.5	37.6	38.9	30.4
21/02/22	21:14	46.2	35.3	33.3	29.3
21/02/22	21:29	69.7	44.7	47.4	29.5
21/02/22	21:44	38.0	30.4	29.6	28.6
21/02/22	21:59	55.6	41.3	37.9	29.1
21/02/22	22:14	41.5	30.7	29.7	28.0
21/02/22	22:29	44.5	34.9	31.6	28.1
21/02/22	22:44	41.9	31.2	29.5	27.7
	Arith. Average	64.6	50.7	48.7	42.0

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
	Log. Average	70.2	57.7	54.6	47.5
	Minimum	38.0	30.4	29.5	27.7
	Maximum	80.1	64.2	61.6	54.1
21/02/22	22:59	43.4	32.7	30.4	27.6
21/02/22	23:14	43.7	30.4	29.6	27.1
21/02/22	23:29	37.7	28.8	27.9	26.9
21/02/22	23:44	33.0	29.1	28.0	27.0
21/02/22	23:59	37.5	28.8	27.8	26.8
22/02/22	00:14	35.6	29.5	28.0	26.7
22/02/22	00:29	34.6	27.7	26.8	26.0
22/02/22	00:44	51.3	29.6	32.4	26.0
22/02/22	00:59	48.8	34.7	31.8	26.0
22/02/22	01:14	38.9	28.3	27.2	26.1
22/02/22	01:29	35.8	29.2	28.0	26.9
22/02/22	01:44	37.0	27.9	26.8	25.7
22/02/22	01:59	37.9	27.9	26.7	25.5
22/02/22	02:14	43.8	33.0	29.6	25.5
22/02/22	02:29	40.2	30.9	29.0	27.0
22/02/22	02:44	43.1	32.5	31.0	29.3
22/02/22	02:59	45.6	36.9	34.6	31.2
22/02/22	03:14	44.6	37.2	34.6	30.5
22/02/22	03:29	44.9	35.9	34.0	31.2
22/02/22	03:44	43.0	34.3	32.1	29.1
22/02/22	03:59	41.1	30.1	29.0	27.4
22/02/22	04:14	69.9	30.5	42.8	26.6
22/02/22	04:29	48.9	31.8	29.8	26.6
22/02/22	04:44	46.7	37.5	35.5	33.1
22/02/22	04:59	46.5	37.5	35.3	32.0
22/02/22	05:14	44.6	35.9	33.6	30.8
22/02/22	05:29	47.8	37.2	34.9	31.7
22/02/22	05:44	46.7	37.8	35.7	33.2
22/02/22	05:59	50.8	41.3	39.0	34.7
22/02/22	06:14	73.9	50.2	54.6	34.5
22/02/22	06:29	88.1	64.7	62.7	38.6
22/02/22	06:44	73.5	57.8	56.0	33.0
	Arith. Average	46.8	34.9	33.9	29.1
	Log. Average	73.4	50.7	49.1	30.6
	Minimum	33.0	27.7	26.7	25.5
	Maximum	88.1	64.7	62.7	38.6
22/02/22	06:59	61.6	46.5	43.4	34.3
22/02/22	07:14	85.8	64.6	66.8	37.1
22/02/22	07:29	80.8	53.3	56.3	38.9
22/02/22	07:44	73.2	55.7	53.5	39.9
22/02/22	07:59	75.9	51.0	54.4	38.1

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
22/02/22	08:14	68.2	46.7	44.9	37.9
22/02/22	08:29	73.3	45.2	50.0	37.4
22/02/22	08:44	75.9	61.9	57.6	39.1
22/02/22	08:59	73.3	62.6	57.8	39.0
22/02/22	09:14	65.3	49.8	47.5	37.7
22/02/22	09:29	74.0	57.5	54.9	42.2
22/02/22	09:44	75.6	62.1	58.5	44.0
22/02/22	09:59	75.0	52.5	55.7	42.9
22/02/22	10:14	76.2	58.7	56.2	44.6
22/02/22	10:29	65.1	48.7	46.7	42.5
22/02/22	10:44	69.2	55.1	51.8	42.1
22/02/22	10:59	78.5	53.8	54.2	42.8
22/02/22	11:14	75.3	47.0	50.7	38.4
22/02/22	11:29	78.7	48.1	50.3	38.9
22/02/22	11:44	75.4	48.7	48.4	40.8
22/02/22	11:59	66.0	44.8	43.9	38.5
22/02/22	12:14	75.6	51.5	53.7	38.2
22/02/22	12:29	83.9	50.0	55.2	41.6
22/02/22	12:44	69.1	50.2	48.9	44.3
22/02/22	12:59	66.5	49.1	48.3	40.6
22/02/22	13:14	68.0	45.0	45.7	37.7
22/02/22	13:29	68.4	46.5	47.3	37.1
22/02/22	13:44	87.9	59.4	61.3	36.7
22/02/22	13:59	67.0	46.1	46.8	36.5
22/02/22	14:14	70.8	47.0	47.8	36.3
22/02/22	14:29	76.8	46.0	51.1	36.3
22/02/22	14:44	59.7	50.3	45.6	36.0
22/02/22	14:59	71.2	51.8	49.6	41.8
22/02/22	15:14	71.6	48.5	47.4	39.3
22/02/22	15:29	67.3	45.3	44.3	38.3
22/02/22	15:44	70.5	50.9	49.1	41.3
22/02/22	15:59	70.5	46.3	48.6	36.7
22/02/22	16:14	71.8	48.6	48.2	37.5
22/02/22	16:29	67.0	46.2	45.4	37.2
22/02/22	16:44	66.6	43.8	44.0	34.8
22/02/22	16:59	81.8	50.5	56.4	35.3
22/02/22	17:14	69.2	48.7	46.3	35.5
22/02/22	17:29	74.3	48.9	50.5	34.5
22/02/22	17:44	68.7	46.5	45.8	34.2
22/02/22	17:59	64.7	43.1	42.7	34.5
22/02/22	18:14	64.6	40.4	41.3	34.5
22/02/22	18:29	63.1	41.9	40.1	31.8
22/02/22	18:44	65.1	36.6	40.9	31.9
22/02/22	18:59	63.1	35.8	41.3	31.9
22/02/22	19:14	66.6	33.8	41.4	28.3
22/02/22	19:29	68.5	42.2	43.5	28.9

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
22/02/22	19:44	67.1	35.1	41.4	28.8
22/02/22	19:59	46.0	32.7	31.9	29.0
22/02/22	20:14	65.1	45.6	43.1	30.5
22/02/22	20:29	53.1	38.2	35.6	30.1
22/02/22	20:44	57.8	36.8	36.7	29.0
22/02/22	20:59	45.4	35.7	32.7	29.6
22/02/22	21:14	49.3	32.6	31.9	29.3
22/02/22	21:29	42.2	33.2	31.4	29.5
22/02/22	21:44	64.5	37.0	43.3	29.4
22/02/22	21:59	52.3	32.8	33.4	28.7
22/02/22	22:14	67.2	44.8	43.1	28.9
22/02/22	22:29	53.3	38.3	36.4	29.1
22/02/22	22:44	48.3	31.7	30.5	28.4
	Arith. Average	68.0	46.6	46.8	36.0
	Log. Average	75.6	53.3	53.2	38.3
	Minimum	42.2	31.7	30.5	28.3
	Maximum	87.9	64.6	66.8	44.6
22/02/22	22:59	51.5	37.0	36.1	28.4
22/02/22	23:14	56.9	29.9	29.3	27.4
22/02/22	23:29	45.3	29.2	28.3	27.1
22/02/22	23:44	37.4	29.9	28.8	27.6
22/02/22	23:59	37.1	30.1	28.7	27.1
23/02/22	00:14	33.3	29.1	28.1	27.0
23/02/22	00:29	34.9	28.7	27.7	26.5
23/02/22	00:44	36.1	29.0	28.0	27.0
23/02/22	00:59	36.9	28.5	27.4	26.4
23/02/22	01:14	39.0	29.0	28.0	26.8
23/02/22	01:29	34.2	29.7	28.2	26.7
23/02/22	01:44	58.5	30.8	37.4	26.7
23/02/22	01:59	40.4	29.4	28.3	27.0
23/02/22	02:14	35.0	29.0	28.0	26.9
23/02/22	02:29	35.1	29.1	27.9	26.7
23/02/22	02:44	33.8	29.2	27.9	26.8
23/02/22	02:59	39.9	28.6	27.8	26.8
23/02/22	03:14	39.0	29.5	28.6	27.1
23/02/22	03:29	35.9	30.6	29.2	27.7
23/02/22	03:44	37.8	31.3	29.7	28.1
23/02/22	03:59	40.8	30.2	28.9	27.1
23/02/22	04:14	41.7	28.4	27.6	26.4
23/02/22	04:29	37.7	28.7	28.0	27.0
23/02/22	04:44	37.3	29.5	28.4	27.1
23/02/22	04:59	42.8	34.1	31.6	28.6
23/02/22	05:14	44.2	36.6	33.7	30.1
23/02/22	05:29	48.2	39.1	35.5	30.8
23/02/22	05:44	51.9	38.9	36.5	32.6

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
23/02/22	05:59	57.5	43.0	40.5	34.7
23/02/22	06:14	75.0	57.4	55.7	38.8
23/02/22	06:29	71.8	55.2	53.5	36.0
23/02/22	06:44	76.4	52.6	52.3	36.2
	Arith. Average	44.5	33.5	32.4	28.7
	Log. Average	64.6	45.5	44.0	30.5
	Minimum	33.3	28.4	27.4	26.4
	Maximum	76.4	57.4	55.7	38.8
23/02/22	06:59	67.2	52.9	48.9	35.7
23/02/22	07:14	72.7	55.2	53.6	36.5
23/02/22	07:29	72.9	51.9	54.8	35.2
23/02/22	07:44	68.1	53.1	49.6	37.1
23/02/22	07:59	72.0	55.1	53.0	37.3
23/02/22	08:14	78.7	57.3	56.2	39.1
23/02/22	08:29	59.5	49.7	45.6	35.6
23/02/22	08:44	77.1	49.9	49.2	35.4
23/02/22	08:59	75.4	51.8	50.7	34.1
23/02/22	09:14	69.6	49.7	48.7	32.6
23/02/22	09:29	71.5	55.1	52.2	34.0
23/02/22	09:44	68.0	54.8	50.7	35.1
23/02/22	09:59	64.4	47.1	45.3	33.7
23/02/22	10:14	74.3	50.2	53.0	32.8
23/02/22	10:29	65.7	42.5	42.2	33.1
23/02/22	10:44	74.1	48.9	51.3	33.6
23/02/22	10:59	63.2	44.1	44.2	34.4
23/02/22	11:14	57.2	42.9	40.2	34.6
23/02/22	11:29	65.5	44.5	42.6	36.2
23/02/22	11:44	65.1	52.1	47.9	35.4
23/02/22	11:59	64.5	48.2	44.9	35.0
23/02/22	12:14	69.3	47.1	47.3	32.8
23/02/22	12:29	71.4	48.4	47.8	34.7
23/02/22	12:44	77.2	42.0	47.0	35.8
23/02/22	12:59	76.2	44.9	48.6	36.1
23/02/22	13:14	67.6	44.4	45.6	36.0
23/02/22	13:29	73.3	47.6	49.2	36.7
23/02/22	13:44	65.8	50.3	48.0	38.8
23/02/22	13:59	81.4	73.8	66.7	45.6
23/02/22	14:14	78.1	73.7	69.2	43.5
23/02/22	14:29	70.9	61.9	57.8	40.8
23/02/22	14:44	67.5	55.5	51.9	35.7
23/02/22	14:59	66.2	46.0	43.5	35.8
23/02/22	15:14	68.0	48.8	46.9	41.2
23/02/22	15:29	75.6	51.4	49.3	39.2
23/02/22	15:44	102.8	54.4	77.3	40.7
23/02/22	15:59	64.2	46.1	43.5	37.9

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
23/02/22	16:14	78.9	46.6	48.6	38.1
23/02/22	16:29	74.3	47.4	51.4	36.6
23/02/22	16:44	75.7	44.9	51.0	36.8
23/02/22	16:59	76.2	48.0	53.8	37.4
23/02/22	17:14	67.2	45.5	45.3	37.0
23/02/22	17:29	57.5	44.5	41.8	36.8
23/02/22	17:44	61.1	44.9	42.9	35.8
23/02/22	17:59	69.3	46.0	46.0	39.0
23/02/22	18:14	72.0	47.2	48.1	39.2
23/02/22	18:29	65.4	43.9	43.3	37.1
23/02/22	18:44	54.3	42.3	39.8	36.2
23/02/22	18:59	65.5	41.2	43.0	35.1
23/02/22	19:14	47.3	36.6	34.9	33.4
23/02/22	19:29	66.6	41.9	44.7	34.1
23/02/22	19:44	51.5	39.8	37.5	34.0
23/02/22	19:59	68.8	46.6	47.2	33.9
23/02/22	20:14	51.7	42.1	39.4	35.4
23/02/22	20:29	59.9	44.3	41.5	36.7
23/02/22	20:44	70.9	41.3	44.0	34.6
23/02/22	20:59	52.1	41.8	39.2	35.1
23/02/22	21:14	50.8	39.5	37.1	32.8
23/02/22	21:29	57.8	40.9	39.4	32.7
23/02/22	21:44	49.9	38.3	35.5	31.9
23/02/22	21:59	58.9	42.3	40.8	32.7
23/02/22	22:14	55.5	41.3	38.3	32.8
23/02/22	22:29	49.3	37.8	35.6	32.7
23/02/22	22:44	52.2	38.6	37.0	32.6
	Arith. Average	66.9	47.6	47.1	35.9
	Log. Average	85.0	59.3	60.5	37.0
	Minimum	47.3	36.6	34.9	31.9
	Maximum	102.8	73.8	77.3	45.6
23/02/22	22:59	48.7	37.8	35.1	31.2
23/02/22	23:14	69.0	43.8	44.2	33.8
23/02/22	23:29	52.4	43.2	40.7	36.7
23/02/22	23:44	51.1	43.0	40.0	36.1
23/02/22	23:59	49.3	39.5	37.3	34.1
24/02/22	00:14	68.1	39.5	41.9	32.8
24/02/22	00:29	52.0	39.1	36.4	32.6
24/02/22	00:44	48.2	36.7	34.4	31.4
24/02/22	00:59	49.5	38.2	35.5	31.6
24/02/22	01:14	52.0	38.0	36.5	32.9
24/02/22	01:29	51.1	40.9	37.6	33.0
24/02/22	01:44	49.7	37.2	35.4	33.0
24/02/22	01:59	51.2	41.5	38.3	33.0
24/02/22	02:14	49.2	39.0	36.8	33.3

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
24/02/22	02:29	49.3	37.8	35.2	31.4
24/02/22	02:44	49.8	36.1	33.6	30.3
24/02/22	02:59	52.5	37.8	35.1	31.4
24/02/22	03:14	47.5	35.3	33.5	30.9
24/02/22	03:29	52.0	37.3	34.8	30.9
24/02/22	03:44	40.5	31.4	30.2	29.2
24/02/22	03:59	41.3	32.3	30.7	29.2
24/02/22	04:14	46.0	36.5	34.1	31.4
24/02/22	04:29	47.0	35.3	33.3	30.8
24/02/22	04:44	49.9	39.1	37.2	32.5
24/02/22	04:59	51.2	39.5	37.7	35.4
24/02/22	05:14	52.5	40.6	38.5	35.0
24/02/22	05:29	65.5	46.3	44.3	37.7
24/02/22	05:44	53.8	43.0	41.5	39.5
24/02/22	05:59	50.5	43.4	41.4	39.2
24/02/22	06:14	76.2	53.5	53.8	39.8
24/02/22	06:29	72.2	54.2	52.4	41.2
24/02/22	06:44	75.4	50.8	50.6	43.1
	Arith. Average	53.6	40.2	38.4	33.9
	Log. Average	65.5	44.5	43.6	35.6
	Minimum	40.5	31.4	30.2	29.2
	Maximum	76.2	54.2	53.8	43.1
24/02/22	06:59	69.3	50.8	49.1	42.2
24/02/22	07:14	69.8	51.0	49.3	42.4
24/02/22	07:29	66.6	49.8	48.7	44.2
24/02/22	07:44	65.3	51.0	48.6	42.6
24/02/22	07:59	72.4	50.8	49.6	40.8
24/02/22	08:14	72.4	52.2	50.8	38.4
24/02/22	08:29	67.9	50.9	49.5	40.0
24/02/22	08:44	65.7	47.8	45.7	39.1
24/02/22	08:59	76.6	52.1	54.1	42.0
24/02/22	09:14	68.1	55.4	51.6	41.9
24/02/22	09:29	67.3	51.7	49.5	43.1
24/02/22	09:44	69.3	54.9	52.8	43.9
24/02/22	09:59	66.7	52.6	49.8	41.8
24/02/22	10:14	65.4	52.9	48.7	36.3
24/02/22	10:29	58.4	47.2	43.3	35.4
24/02/22	10:44	66.4	43.0	42.1	36.4
24/02/22	10:59	75.8	51.0	55.4	37.2
24/02/22	11:14	67.1	50.5	47.7	37.1
24/02/22	11:29	75.6	54.0	54.0	39.7
24/02/22	11:44	66.1	47.6	45.4	36.4
24/02/22	11:59	68.1	45.5	45.8	38.8
24/02/22	12:14	70.6	52.3	49.3	39.7
24/02/22	12:29	63.9	48.2	45.7	37.5

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
24/02/22	12:44	68.4	55.1	51.4	43.7
24/02/22	12:59	72.5	57.7	53.1	42.4
24/02/22	13:14	68.8	58.7	53.9	40.9
24/02/22	13:29	65.5	52.7	49.0	40.5
24/02/22	13:44	67.4	45.7	46.7	38.5
24/02/22	13:59	83.2	50.5	56.4	37.1
24/02/22	14:14	72.0	50.1	49.6	36.5
24/02/22	14:29	73.1	50.1	48.8	36.3
24/02/22	14:44	70.7	51.1	49.7	37.8
24/02/22	14:59	65.8	47.9	46.3	37.0
24/02/22	15:14	62.7	50.5	47.3	40.6
24/02/22	15:29	80.6	46.6	52.0	38.5
24/02/22	15:44	68.2	50.3	47.3	40.3
24/02/22	15:59	74.6	48.9	48.4	39.2
24/02/22	16:14	65.5	50.9	48.5	42.0
24/02/22	16:29	52.4	45.5	42.3	36.5
24/02/22	16:44	62.0	42.5	40.1	34.0
24/02/22	16:59	58.1	44.2	41.5	36.2
24/02/22	17:14	69.7	45.7	45.8	36.0
24/02/22	17:29	72.3	43.1	44.9	33.9
24/02/22	17:44	72.5	42.3	46.9	33.3
24/02/22	17:59	62.1	41.4	39.4	32.0
24/02/22	18:14	59.4	41.2	40.3	34.7
24/02/22	18:29	65.3	44.3	43.4	32.8
24/02/22	18:44	67.0	46.2	44.5	32.1
24/02/22	18:59	43.0	36.0	33.8	31.4
24/02/22	19:14	54.4	36.9	36.3	30.6
24/02/22	19:29	63.3	42.2	41.6	31.2
24/02/22	19:44	68.5	43.1	44.5	32.0
24/02/22	19:59	67.8	40.5	44.2	29.8
24/02/22	20:14	59.0	44.0	40.0	30.6
24/02/22	20:29	56.4	39.0	37.0	30.5
24/02/22	20:44	48.1	36.8	34.0	29.5
24/02/22	20:59	59.2	41.6	38.2	28.8
24/02/22	21:14	49.3	32.5	31.0	28.8
24/02/22	21:29	62.6	35.1	36.1	30.6
24/02/22	21:44	64.6	36.3	38.2	29.7
24/02/22	21:59	56.6	38.5	36.5	29.1
24/02/22	22:14	48.5	38.6	35.1	29.5
24/02/22	22:29	49.0	38.8	35.9	30.9
24/02/22	22:44	57.5	37.2	35.9	30.0
	Arith. Average	65.4	46.6	45.3	36.4
	Log. Average	70.9	50.0	48.6	38.6
	Minimum	43.0	32.5	31.0	28.8
	Maximum	83.2	58.7	56.4	44.2

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
24/02/22	22:59	51.0	33.7	32.7	29.7
24/02/22	23:14	49.4	34.9	33.7	29.9
24/02/22	23:29	47.6	34.3	32.5	30.2
24/02/22	23:44	53.1	36.3	35.0	29.7
24/02/22	23:59	44.4	35.2	32.6	29.6
25/02/22	00:14	44.2	34.0	31.6	28.5
25/02/22	00:29	60.3	33.6	37.0	28.0
25/02/22	00:44	45.4	34.6	32.1	28.4
25/02/22	00:59	56.3	35.3	34.2	29.5
25/02/22	01:14	47.3	37.1	34.4	30.8
25/02/22	01:29	44.7	36.1	33.3	30.2
25/02/22	01:44	47.6	35.7	33.1	29.6
25/02/22	01:59	46.0	38.6	35.3	30.3
25/02/22	02:14	50.8	38.2	35.8	31.9
25/02/22	02:29	50.7	39.6	36.7	32.7
25/02/22	02:44	46.1	36.9	34.4	31.3
25/02/22	02:59	47.5	38.1	35.3	30.6
25/02/22	03:14	45.9	39.0	36.6	33.3
25/02/22	03:29	50.4	39.0	36.5	32.8
25/02/22	03:44	47.3	39.8	37.2	34.4
25/02/22	03:59	45.9	38.5	36.1	32.3
25/02/22	04:14	48.7	39.2	37.0	33.2
25/02/22	04:29	46.9	36.6	34.5	31.9
25/02/22	04:44	49.4	41.9	38.8	33.7
25/02/22	04:59	47.6	41.2	38.5	34.0
25/02/22	05:14	47.1	40.9	38.2	34.9
25/02/22	05:29	47.1	37.9	36.0	32.9
25/02/22	05:44	51.0	38.9	36.6	32.8
25/02/22	05:59	61.1	45.4	42.8	34.4
25/02/22	06:14	70.2	51.3	49.7	35.7
25/02/22	06:29	75.3	50.2	55.7	34.8
25/02/22	06:44	68.8	43.7	43.5	35.8
	Arith. Average	51.1	38.6	36.8	31.8
	Log. Average	62.5	41.7	42.8	32.4
	Minimum	44.2	33.6	31.6	28.0
	Maximum	75.3	51.3	55.7	35.8
25/02/22	06:59	65.3	46.7	44.3	36.6
25/02/22	07:14	74.8	48.1	54.6	36.5
25/02/22	07:29	67.6	50.2	48.5	37.1
25/02/22	07:44	77.1	51.1	53.6	37.1
25/02/22	07:59	68.9	54.0	49.9	37.1
25/02/22	08:14	75.8	48.3	55.2	37.0
25/02/22	08:29	66.9	47.1	46.6	37.9
25/02/22	08:44	70.2	48.3	47.2	37.0
25/02/22	08:59	73.8	52.3	49.7	39.0

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
25/02/22	09:14	81.0	46.1	48.5	36.8
25/02/22	09:29	69.7	49.4	49.3	38.2
25/02/22	09:44	75.0	53.9	55.1	36.8
25/02/22	09:59	59.2	45.8	43.4	37.7
25/02/22	10:14	68.2	53.1	49.6	39.9
25/02/22	10:29	67.7	51.3	47.9	38.8
25/02/22	10:44	66.5	47.5	45.7	38.7
25/02/22	10:59	62.3	47.4	44.1	37.9
25/02/22	11:14	66.8	45.7	45.9	36.9
25/02/22	11:29	57.9	45.1	42.9	37.9
25/02/22	11:44	67.5	47.9	46.0	37.4
25/02/22	11:59	69.3	43.6	44.8	33.8
25/02/22	12:14	70.2	44.3	46.3	33.7
25/02/22	12:29	70.1	43.7	46.1	34.2
25/02/22	12:44	69.8	45.4	49.1	34.7
25/02/22	12:59	70.1	47.4	44.7	35.3
25/02/22	13:14	78.9	54.4	52.1	41.0
25/02/22	13:29	76.4	50.7	50.7	41.1
25/02/22	13:44	70.1	48.9	47.8	40.3
25/02/22	13:59	63.9	47.3	45.1	40.5
25/02/22	14:14	61.9	43.5	41.1	33.6
25/02/22	14:29	70.8	45.5	47.2	34.5
25/02/22	14:44	73.1	46.6	46.6	33.1
25/02/22	14:59	67.3	46.5	44.3	33.4
25/02/22	15:14	67.6	48.4	47.0	32.6
25/02/22	15:29	71.5	47.1	48.8	30.9
25/02/22	15:44	75.7	50.9	53.4	30.6
25/02/22	15:59	70.2	52.5	50.3	33.7
25/02/22	16:14	75.1	44.6	47.3	33.5
25/02/22	16:29	65.4	46.5	44.3	33.6
25/02/22	16:44	64.6	43.4	43.0	32.5
25/02/22	16:59	64.1	46.7	43.4	34.0
25/02/22	17:14	68.8	44.3	45.4	34.2
25/02/22	17:29	69.8	43.3	47.3	35.3
25/02/22	17:44	70.7	46.0	46.3	36.6
25/02/22	17:59	55.3	42.8	40.4	35.4
25/02/22	18:14	69.6	42.3	45.1	35.6
25/02/22	18:29	67.0	43.4	44.9	33.9
25/02/22	18:44	64.5	42.1	42.1	31.8
25/02/22	18:59	69.6	38.2	44.9	30.7
25/02/22	19:14	58.1	38.2	36.9	32.9
25/02/22	19:29	68.6	39.5	39.9	33.6
25/02/22	19:44	47.0	40.2	36.6	32.2
25/02/22	19:59	56.7	42.0	39.7	31.0
25/02/22	20:14	43.3	34.0	32.1	29.9
25/02/22	20:29	70.3	40.4	44.2	30.1

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
25/02/22	20:44	64.7	40.8	41.0	29.8
25/02/22	20:59	45.1	33.1	31.5	28.5
25/02/22	21:14	57.5	34.0	40.5	28.0
25/02/22	21:29	65.1	41.0	40.3	28.1
25/02/22	21:44	44.4	30.5	30.6	27.3
25/02/22	21:59	46.3	39.7	34.9	27.6
25/02/22	22:14	58.2	38.8	38.3	27.2
25/02/22	22:29	47.6	39.2	34.6	27.7
25/02/22	22:44	47.7	39.9	34.8	27.3
	Arith. Average	65.7	45.0	44.7	34.3
	Log. Average	70.9	47.5	47.6	35.8
	Minimum	43.3	30.5	30.6	27.2
	Maximum	81.0	54.4	55.2	41.1
25/02/22	22:59	64.5	32.8	37.7	27.6
25/02/22	23:14	65.9	37.3	41.7	26.4
25/02/22	23:29	46.0	34.1	32.4	26.6
25/02/22	23:44	49.4	29.1	28.4	26.1
25/02/22	23:59	56.3	34.0	39.9	25.8
26/02/22	00:14	39.6	27.6	26.8	25.7
26/02/22	00:29	43.0	28.0	27.4	25.9
26/02/22	00:44	34.2	28.4	27.0	25.9
26/02/22	00:59	40.0	27.0	26.9	25.7
26/02/22	01:14	43.4	33.0	29.7	25.8
26/02/22	01:29	30.3	26.8	26.2	25.6
26/02/22	01:44	33.5	26.9	26.2	25.6
26/02/22	01:59	38.6	27.2	26.4	25.4
26/02/22	02:14	35.0	26.6	26.1	25.5
26/02/22	02:29	35.8	27.7	26.5	25.5
26/02/22	02:44	39.0	26.5	26.1	25.5
26/02/22	02:59	46.1	30.8	31.7	25.2
26/02/22	03:14	44.2	27.3	27.9	25.5
26/02/22	03:29	49.0	31.5	33.2	25.9
26/02/22	03:44	70.1	32.7	42.1	25.8
26/02/22	03:59	46.5	28.4	27.7	25.8
26/02/22	04:14	38.5	27.0	26.2	25.4
26/02/22	04:29	36.6	28.2	26.7	25.6
26/02/22	04:44	45.6	35.2	31.2	26.4
26/02/22	04:59	57.9	30.8	30.9	26.2
26/02/22	05:14	45.1	35.3	32.0	26.8
26/02/22	05:29	43.2	34.0	31.3	27.0
26/02/22	05:44	67.6	38.2	40.1	29.6
26/02/22	05:59	60.0	46.7	42.5	31.4
26/02/22	06:14	86.0	67.4	65.1	34.7
26/02/22	06:29	77.6	53.9	56.4	32.9
26/02/22	06:44	62.9	47.6	44.1	32.1

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
	Arith. Average	49.1	33.4	33.3	26.9
	Log. Average	71.8	52.6	50.7	27.8
	Minimum	30.3	26.5	26.1	25.2
	Maximum	86.0	67.4	65.1	34.7
26/02/22	06:59	62.8	48.5	44.7	32.2
26/02/22	07:14	68.3	48.4	46.0	33.2
26/02/22	07:29	73.7	51.5	51.2	33.9
26/02/22	07:44	73.1	56.0	54.4	34.1
26/02/22	07:59	74.5	61.5	56.5	35.6
26/02/22	08:14	75.6	58.3	56.3	34.5
26/02/22	08:29	74.6	58.5	55.5	35.4
26/02/22	08:44	62.4	45.7	42.8	33.7
26/02/22	08:59	63.9	45.7	44.4	34.0
26/02/22	09:14	63.0	45.7	42.8	34.7
26/02/22	09:29	67.5	47.3	46.4	36.9
26/02/22	09:44	71.9	49.5	50.0	35.8
26/02/22	09:59	69.2	42.5	43.1	35.5
26/02/22	10:14	66.6	44.2	43.9	33.9
26/02/22	10:29	69.0	47.9	46.6	34.9
26/02/22	10:44	66.7	42.1	42.3	34.2
26/02/22	10:59	66.3	44.5	43.5	34.9
26/02/22	11:14	68.6	46.8	45.1	36.2
26/02/22	11:29	70.5	47.1	50.2	35.7
26/02/22	11:44	68.4	46.8	45.3	35.9
26/02/22	11:59	69.1	45.7	45.7	35.4
26/02/22	12:14	60.5	46.3	43.6	36.6
26/02/22	12:29	67.0	44.4	45.0	35.8
26/02/22	12:44	70.5	50.0	48.7	35.9
26/02/22	12:59	59.7	44.0	41.2	34.5
26/02/22	13:14	67.4	43.9	43.0	34.2
26/02/22	13:29	68.1	51.0	48.4	37.8
26/02/22	13:44	69.7	45.4	45.1	38.7
26/02/22	13:59	64.3	46.1	44.1	36.4
26/02/22	14:14	69.3	42.9	45.2	35.4
26/02/22	14:29	68.0	43.9	45.6	34.8
26/02/22	14:44	67.8	45.3	45.7	36.7
26/02/22	14:59	63.5	47.0	44.1	38.4
26/02/22	15:14	61.6	44.2	42.4	36.8
26/02/22	15:29	65.0	44.8	44.3	36.1
26/02/22	15:44	69.0	45.5	44.9	36.0
26/02/22	15:59	66.6	47.1	45.5	37.0
26/02/22	16:14	62.1	43.9	41.4	35.2
26/02/22	16:29	63.7	44.6	44.3	35.6
26/02/22	16:44	64.9	48.5	45.5	35.0
26/02/22	16:59	70.1	45.9	46.2	35.7

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
26/02/22	17:14	62.8	43.4	40.9	34.8
26/02/22	17:29	74.8	48.0	52.6	36.0
26/02/22	17:44	71.1	46.3	49.7	36.1
26/02/22	17:59	58.1	45.1	42.2	36.6
26/02/22	18:14	58.9	43.6	42.1	37.0
26/02/22	18:29	64.4	39.1	40.4	35.4
26/02/22	18:44	52.1	38.6	37.1	35.4
26/02/22	18:59	53.8	39.6	38.1	35.6
26/02/22	19:14	52.0	41.1	38.5	35.7
26/02/22	19:29	50.6	41.6	39.2	35.7
26/02/22	19:44	53.3	43.0	39.9	35.3
26/02/22	19:59	54.9	44.3	41.2	35.6
26/02/22	20:14	49.8	42.9	39.8	35.5
26/02/22	20:29	52.2	41.7	38.4	34.4
26/02/22	20:44	58.1	43.2	40.8	36.0
26/02/22	20:59	53.2	42.3	39.3	35.2
26/02/22	21:14	67.1	42.8	40.8	35.5
26/02/22	21:29	55.0	41.8	39.6	35.3
26/02/22	21:44	52.6	42.3	39.2	34.9
26/02/22	21:59	49.9	44.1	40.3	34.5
26/02/22	22:14	57.2	43.5	40.2	34.7
26/02/22	22:29	55.9	44.7	41.2	35.8
26/02/22	22:44	55.1	46.2	43.0	36.4
	Arith. Average	63.7	45.8	44.3	35.5
	Log. Average	67.9	49.3	47.3	35.6
	Minimum	49.8	38.6	37.1	32.2
	Maximum	75.6	61.5	56.5	38.7
26/02/22	22:59	54.3	45.3	42.5	37.9
26/02/22	23:14	56.6	45.8	42.5	36.6
26/02/22	23:29	55.9	43.7	41.0	37.3
26/02/22	23:44	58.5	47.5	44.9	38.5
26/02/22	23:59	54.7	46.1	43.2	38.6
27/02/22	00:14	60.1	45.5	42.3	36.3
27/02/22	00:29	57.5	46.9	43.6	37.6
27/02/22	00:44	55.3	42.7	40.2	36.7
27/02/22	00:59	56.4	46.1	42.5	36.7
27/02/22	01:14	54.5	42.3	40.2	36.1
27/02/22	01:29	54.2	46.0	43.2	38.3
27/02/22	01:44	58.6	47.0	44.0	38.4
27/02/22	01:59	59.1	49.1	45.2	37.9
27/02/22	02:14	61.4	49.0	45.8	39.7
27/02/22	02:29	59.2	48.2	45.3	39.5
27/02/22	02:44	58.1	44.6	41.8	37.0
27/02/22	02:59	58.5	47.0	44.3	37.2
27/02/22	03:14	65.1	50.3	47.3	40.8

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
27/02/22	03:29	58.6	48.7	45.5	39.7
27/02/22	03:44	57.3	46.7	43.3	36.7
27/02/22	03:59	57.6	46.2	42.9	36.2
27/02/22	04:14	58.1	48.9	45.3	36.2
27/02/22	04:29	57.0	46.9	43.6	37.0
27/02/22	04:44	63.3	46.8	43.5	36.2
27/02/22	04:59	55.8	43.8	41.1	35.9
27/02/22	05:14	59.8	47.1	44.1	38.3
27/02/22	05:29	58.7	44.5	41.7	37.0
27/02/22	05:44	62.6	47.0	45.5	36.5
27/02/22	05:59	77.6	47.4	50.3	36.7
27/02/22	06:14	65.4	48.1	46.0	39.2
27/02/22	06:29	63.4	48.2	45.2	38.4
27/02/22	06:44	58.2	49.0	45.7	39.9
	Arith. Average	59.1	46.6	43.9	37.7
	Log. Average	64.3	47.0	44.4	37.9
	Minimum	54.2	42.3	40.2	35.9
	Maximum	77.6	50.3	50.3	40.8
27/02/22	06:59	69.6	49.6	49.1	39.4
27/02/22	07:14	63.3	50.0	46.9	40.5
27/02/22	07:29	62.9	49.6	46.3	40.6
27/02/22	07:44	66.1	50.0	47.5	41.2
27/02/22	07:59	58.4	50.8	47.6	42.8
27/02/22	08:14	63.7	51.8	48.5	41.7
27/02/22	08:29	66.3	51.5	48.4	42.3
27/02/22	08:44	62.7	51.3	48.0	42.1
27/02/22	08:59	61.2	51.8	49.2	44.4
27/02/22	09:14	63.3	52.1	48.7	42.4
27/02/22	09:29	62.3	52.7	49.1	42.6
27/02/22	09:44	67.6	52.4	50.1	43.1
27/02/22	09:59	62.1	51.3	48.2	42.1
27/02/22	10:14	63.0	49.8	46.9	42.2
27/02/22	10:29	62.0	50.7	47.7	42.1
27/02/22	10:44	66.9	49.7	47.3	42.0
27/02/22	10:59	57.4	49.3	46.2	40.5
27/02/22	11:14	56.6	49.4	46.3	41.8
27/02/22	11:29	67.3	50.7	48.8	44.5
27/02/22	11:44	67.1	49.8	48.8	41.8
27/02/22	11:59	69.1	49.4	47.1	40.8
27/02/22	12:14	54.8	48.2	45.3	41.3
27/02/22	12:29	66.0	46.1	45.0	38.4
27/02/22	12:44	68.1	45.5	45.5	38.3
27/02/22	12:59	58.3	46.8	44.5	40.4
27/02/22	13:14	58.1	45.0	42.5	38.2
27/02/22	13:29	55.7	46.0	43.3	38.9

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
27/02/22	13:44	57.1	47.0	44.4	39.1
27/02/22	13:59	61.4	48.7	46.3	38.0
27/02/22	14:14	68.4	47.0	46.1	39.5
27/02/22	14:29	60.2	48.5	45.7	40.2
27/02/22	14:44	50.5	45.9	42.9	38.4
27/02/22	14:59	69.5	49.3	47.3	39.4
27/02/22	15:14	62.4	47.2	44.7	39.6
27/02/22	15:29	83.2	47.8	51.2	38.1
27/02/22	15:44	61.6	48.0	45.4	39.7
27/02/22	15:59	81.7	47.1	52.1	38.1
27/02/22	16:14	63.7	46.5	44.6	37.8
27/02/22	16:29	83.3	47.0	50.5	37.1
27/02/22	16:44	65.2	44.3	43.3	37.0
27/02/22	16:59	65.4	45.4	44.1	36.9
27/02/22	17:14	56.5	46.6	42.9	36.6
27/02/22	17:29	65.5	43.6	42.7	36.9
27/02/22	17:44	70.3	47.9	49.7	36.6
27/02/22	17:59	101.5	48.1	74.8	35.8
27/02/22	18:14	61.3	43.7	44.6	37.0
27/02/22	18:29	64.2	45.9	45.6	36.6
27/02/22	18:44	49.5	41.0	38.1	34.5
27/02/22	18:59	47.5	40.8	38.3	34.8
27/02/22	19:14	64.6	40.3	39.9	33.4
27/02/22	19:29	55.0	40.7	37.6	33.2
27/02/22	19:44	54.1	42.3	39.6	34.6
27/02/22	19:59	53.0	40.7	38.0	33.5
27/02/22	20:14	49.4	38.9	36.7	33.6
27/02/22	20:29	51.7	39.9	37.8	34.8
27/02/22	20:44	52.7	39.9	37.7	33.9
27/02/22	20:59	54.2	38.2	35.7	32.2
27/02/22	21:14	49.2	37.6	35.6	32.5
27/02/22	21:29	48.8	38.7	36.2	32.0
27/02/22	21:44	48.4	36.8	34.5	31.2
27/02/22	21:59	49.1	35.5	33.5	30.3
27/02/22	22:14	54.0	38.0	35.3	31.1
27/02/22	22:29	57.2	35.5	33.6	29.8
27/02/22	22:44	45.1	34.9	32.6	29.6
	Arith. Average	61.5	45.9	44.4	38.0
	Log. Average	83.6	47.9	57.1	39.4
	Minimum	45.1	34.9	32.6	29.6
	Maximum	101.5	52.7	74.8	44.5
27/02/22	22:59	43.3	35.2	32.4	29.3
27/02/22	23:14	47.3	34.5	32.2	28.9
27/02/22	23:29	53.1	36.5	34.3	29.7
27/02/22	23:44	49.4	33.2	31.4	29.3

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
27/02/22	23:59	51.3	38.8	35.8	30.2
28/02/22	00:14	50.2	33.4	32.3	29.6
28/02/22	00:29	48.9	35.1	33.6	29.3
28/02/22	00:44	51.4	36.3	34.1	29.4
28/02/22	00:59	47.1	35.6	33.0	29.2
28/02/22	01:14	42.2	32.7	30.9	28.9
28/02/22	01:29	41.9	32.2	30.8	29.1
28/02/22	01:44	44.6	32.2	30.7	28.2
28/02/22	01:59	40.5	30.1	29.1	28.0
28/02/22	02:14	36.8	31.9	30.4	28.7
28/02/22	02:29	42.7	30.5	29.7	28.3
28/02/22	02:44	47.2	30.9	29.8	28.3
28/02/22	02:59	42.3	31.1	29.8	28.5
28/02/22	03:14	40.3	30.0	29.2	28.1
28/02/22	03:29	36.9	29.4	28.6	27.8
28/02/22	03:44	52.3	29.0	29.0	27.4
28/02/22	03:59	48.5	30.5	29.8	27.7
28/02/22	04:14	38.8	30.8	29.4	27.9
28/02/22	04:29	41.8	29.4	28.8	27.9
28/02/22	04:44	40.3	30.8	29.9	28.3
28/02/22	04:59	41.7	31.6	30.5	28.9
28/02/22	05:14	47.7	31.1	31.0	28.9
28/02/22	05:29	47.2	35.6	33.1	29.3
28/02/22	05:44	52.9	35.0	33.0	30.2
28/02/22	05:59	65.0	47.3	43.5	31.7
28/02/22	06:14	79.5	58.6	58.7	35.0
28/02/22	06:29	69.8	50.8	49.9	34.6
28/02/22	06:44	67.9	51.2	47.6	35.2
	Arith. Average	48.5	35.0	33.5	29.4
	Log. Average	65.3	45.3	44.8	30.0
	Minimum	36.8	29.0	28.6	27.4
	Maximum	79.5	58.6	58.7	35.2
28/02/22	06:59	85.2	48.1	53.1	36.4
28/02/22	07:14	74.3	53.4	56.4	37.5
28/02/22	07:29	75.4	64.5	59.9	37.3
28/02/22	07:44	73.9	55.2	53.8	35.9
28/02/22	07:59	66.2	47.1	45.2	35.5
28/02/22	08:14	67.1	46.9	44.2	34.6
28/02/22	08:29	60.7	42.9	40.8	34.8
28/02/22	08:44	76.7	52.1	50.6	33.8
28/02/22	08:59	78.9	48.1	49.9	35.2
28/02/22	09:14	76.6	53.1	53.0	37.3
28/02/22	09:29	74.0	58.3	56.2	37.6
28/02/22	09:44	77.5	49.9	49.8	35.6
28/02/22	09:59	67.1	46.4	44.4	34.4

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
28/02/22	10:14	81.4	54.4	53.9	38.1
28/02/22	10:29	64.0	42.6	41.5	34.6
28/02/22	10:44	76.6	64.3	59.4	35.5
28/02/22	10:59	70.8	50.8	48.8	35.2
28/02/22	11:14	75.3	49.4	48.6	35.8
28/02/22	11:29	66.6	47.4	45.4	35.2
28/02/22	11:44	69.3	49.6	47.7	35.0
28/02/22	11:59	74.1	53.1	50.3	36.2
28/02/22	12:14	73.5	52.1	52.4	36.9
28/02/22	12:29	67.8	45.5	43.9	35.8
28/02/22	12:44	64.3	43.8	42.6	34.6
28/02/22	12:59	67.7	41.9	43.0	34.2
28/02/22	13:14	65.6	45.0	43.4	35.4
28/02/22	13:29	66.0	47.3	45.8	34.5
28/02/22	13:44	65.8	44.8	42.2	33.5
28/02/22	13:59	67.4	46.5	46.0	33.8
28/02/22	14:14	75.2	51.8	54.3	33.5
28/02/22	14:29	71.9	46.8	51.0	34.8
28/02/22	14:44	84.4	59.2	61.6	37.5
28/02/22	15:00	86.5	45.5	54.1	34.5
28/02/22	15:15	67.8	50.8	48.2	34.0
28/02/22	15:30	60.6	47.0	43.8	35.1
28/02/22	15:45	62.5	46.4	43.7	35.1
28/02/22	16:00	79.3	47.7	50.1	35.7
28/02/22	16:15	63.2	45.8	43.8	34.5
28/02/22	16:30	77.2	50.8	50.9	35.1
28/02/22	16:45	62.7	44.0	42.1	34.4
28/02/22	17:00	65.9	44.3	42.8	33.4
28/02/22	17:15	69.4	42.9	43.9	34.4
28/02/22	17:30	68.1	43.3	44.5	34.7
28/02/22	17:45	69.9	47.1	47.7	33.6
28/02/22	18:00	65.4	42.5	42.6	32.5
28/02/22	18:15	55.9	39.9	38.6	33.2
28/02/22	18:30	51.0	40.1	36.7	31.3
28/02/22	18:45	49.1	37.0	34.8	30.9
28/02/22	19:00	65.9	34.7	40.8	30.2
28/02/22	19:15	67.3	36.7	41.2	30.2
28/02/22	19:30	65.9	40.9	42.9	30.5
28/02/22	19:45	56.1	43.5	39.3	29.2
28/02/22	20:00	50.2	35.6	33.3	30.4
28/02/22	20:15	56.5	38.2	38.7	32.9
28/02/22	20:30	55.8	35.1	36.2	30.8
28/02/22	20:45	52.7	40.5	37.7	31.8
28/02/22	21:00	59.7	38.6	39.5	31.8
28/02/22	21:15	67.1	40.4	44.5	31.5
28/02/22	21:30	61.6	34.4	41.1	29.4

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
28/02/22	21:45	49.0	32.6	31.1	29.7
28/02/22	22:00	42.5	33.6	31.6	29.1
28/02/22	22:15	50.0	38.4	35.1	29.8
28/02/22	22:30	62.4	38.3	40.8	30.9
28/02/22	22:45	50.3	39.7	37.1	33.1
	Arith. Average	66.7	45.6	45.3	33.9
	Log. Average	74.9	52.2	50.7	34.5
	Minimum	42.5	32.6	31.1	29.1
	Maximum	86.5	64.5	61.6	38.1
28/02/22	23:00	49.3	35.7	33.8	31.4
28/02/22	23:15	48.8	37.1	33.9	30.4
28/02/22	23:30	50.7	37.1	34.4	31.0
28/02/22	23:45	48.9	32.2	30.9	29.5
01/03/22	00:00	36.7	30.9	30.0	29.2
01/03/22	00:15	39.8	30.1	29.3	28.5
01/03/22	00:30	38.6	30.1	29.4	28.3
01/03/22	00:45	49.7	30.4	29.6	28.7
01/03/22	01:00	41.0	30.2	29.5	28.7
01/03/22	01:15	49.2	29.8	29.2	28.3
01/03/22	01:30	49.2	30.5	29.8	28.9
01/03/22	01:45	44.4	30.5	29.8	29.0
01/03/22	02:00	48.7	30.8	30.1	29.2
01/03/22	02:15	43.1	30.5	29.8	28.7
01/03/22	02:30	40.1	29.9	29.2	28.4
01/03/22	02:45	48.8	31.0	29.7	28.4
01/03/22	03:00	48.7	30.7	30.0	29.0
01/03/22	03:15	46.0	30.7	30.0	28.7
01/03/22	03:30	41.3	29.9	29.2	28.2
01/03/22	03:45	41.5	29.4	28.7	28.0
01/03/22	04:00	40.8	29.2	28.5	27.8
01/03/22	04:15	41.0	29.3	28.7	27.8
01/03/22	04:30	70.2	30.4	43.2	27.9
01/03/22	04:45	49.1	29.8	29.3	28.2
01/03/22	05:00	41.5	30.3	29.7	28.5
01/03/22	05:15	44.1	30.7	29.8	28.5
01/03/22	05:30	42.4	32.5	30.5	28.4
01/03/22	05:45	42.9	34.2	31.6	28.5
01/03/22	06:00	55.1	43.0	39.1	30.0
01/03/22	06:15	78.6	54.0	58.5	34.4
01/03/22	06:30	68.4	48.9	45.6	32.1
01/03/22	06:45	63.3	51.3	47.6	32.3
	Arith. Average	48.2	33.5	32.8	29.2
	Log. Average	64.7	42.2	44.3	29.5
	Minimum	36.7	29.2	28.5	27.8
	Maximum	78.6	54.0	58.5	34.4

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
01/03/22	07:00	76.5	50.6	51.8	34.0
01/03/22	07:15	64.7	47.8	45.0	32.9
01/03/22	07:30	74.0	48.4	49.6	33.5
01/03/22	07:45	78.9	57.6	56.8	35.9
01/03/22	08:00	71.1	58.1	53.8	37.1
01/03/22	08:15	76.6	54.9	53.0	36.7
01/03/22	08:30	78.0	53.7	51.1	36.6
01/03/22	08:45	69.0	53.6	50.3	37.8
01/03/22	09:00	71.3	52.1	49.8	36.5
01/03/22	09:15	88.4	53.9	64.8	39.1
01/03/22	09:30	69.1	46.4	44.0	35.1
01/03/22	09:45	74.0	52.4	52.1	36.9
01/03/22	10:00	76.0	49.2	53.6	35.1
01/03/22	10:15	67.7	49.7	46.8	35.1
01/03/22	10:30	77.8	48.9	51.7	34.5
01/03/22	10:45	68.4	52.7	49.3	34.9
01/03/22	11:00	60.5	42.9	40.7	33.3
01/03/22	11:15	76.9	50.0	51.1	34.3
01/03/22	11:30	68.7	46.3	45.9	34.8
01/03/22	11:45	62.5	46.4	43.8	34.5
01/03/22	12:00	70.9	50.4	49.4	35.5
01/03/22	12:15	78.5	52.0	54.7	35.8
01/03/22	12:30	75.4	50.9	54.4	36.8
01/03/22	12:45	70.7	44.0	44.9	34.3
01/03/22	13:00	59.6	43.5	40.7	35.0
01/03/22	13:15	67.7	44.9	44.4	34.8
01/03/22	13:30	67.5	49.9	47.9	35.0
01/03/22	13:45	75.1	49.1	48.6	36.1
01/03/22	14:00	69.4	50.9	49.0	37.8
01/03/22	14:15	76.0	46.1	47.5	37.2
01/03/22	14:30	69.8	46.4	46.7	37.8
01/03/22	14:45	67.3	44.3	44.7	36.7
01/03/22	15:00	69.0	47.9	47.6	37.5
01/03/22	15:15	71.1	47.5	48.5	37.7
01/03/22	15:30	73.0	52.5	54.4	37.7
01/03/22	15:45	68.0	44.2	45.4	38.7
01/03/22	16:00	74.4	48.6	50.1	39.0
01/03/22	16:15	66.4	44.4	44.1	39.0
01/03/22	16:30	68.5	45.3	44.8	37.8
01/03/22	16:45	80.2	48.0	49.7	37.9
01/03/22	17:00	80.7	46.3	50.1	39.6
01/03/22	17:15	69.9	47.5	49.6	39.4
01/03/22	17:30	73.7	44.9	47.2	40.0
01/03/22	17:45	61.3	46.5	44.0	40.3
01/03/22	18:00	67.7	47.0	47.3	42.1

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
01/03/22	18:15	51.2	43.8	42.5	41.0
01/03/22	18:30	68.5	44.0	45.8	40.7
01/03/22	18:45	57.6	43.4	43.0	40.0
01/03/22	19:00	55.0	41.2	39.6	37.7
01/03/22	19:15	72.0	49.1	49.0	36.4
01/03/22	19:30	69.7	38.5	43.2	36.0
01/03/22	19:45	49.3	40.1	37.4	34.5
01/03/22	20:00	70.6	41.8	44.7	34.4
01/03/22	20:15	66.3	36.6	40.9	34.2
01/03/22	20:30	65.6	37.4	39.7	34.6
01/03/22	20:45	63.6	38.0	40.9	33.8
01/03/22	21:00	49.2	38.5	37.0	35.3
01/03/22	21:15	49.4	38.1	36.9	35.4
01/03/22	21:30	54.8	38.9	39.0	33.4
01/03/22	21:45	45.8	37.1	35.6	34.1
01/03/22	22:00	54.2	41.8	39.1	35.7
01/03/22	22:15	49.8	42.0	40.6	38.7
01/03/22	22:30	49.9	41.8	40.3	38.5
01/03/22	22:45	56.8	44.6	43.0	39.9
	Arith. Average	67.5	46.5	46.5	36.6
	Log. Average	74.6	49.3	50.9	37.2
	Minimum	45.8	36.6	35.6	32.9
	Maximum	88.4	58.1	64.8	42.1
01/03/22	23:00	49.5	41.0	39.5	38.0
01/03/22	23:15	49.6	40.3	38.4	36.6
01/03/22	23:30	49.3	41.3	39.4	37.3
01/03/22	23:45	49.7	40.6	38.4	36.0
02/03/22	00:00	49.6	38.4	36.4	33.8
02/03/22	00:15	49.7	38.6	36.4	33.5
02/03/22	00:30	47.5	38.0	35.9	33.7
02/03/22	00:45	49.6	39.2	37.3	34.9
02/03/22	01:00	48.6	37.7	36.0	34.0
02/03/22	01:15	46.3	36.4	34.7	33.0
02/03/22	01:30	49.4	37.0	34.8	32.1
02/03/22	01:45	49.1	37.4	35.1	31.6
02/03/22	02:00	45.2	36.3	33.9	31.4
02/03/22	02:15	48.9	34.3	33.0	31.4
02/03/22	02:30	49.1	37.5	35.4	32.9
02/03/22	02:45	46.0	36.4	34.5	32.2
02/03/22	03:00	48.9	37.2	35.0	32.8
02/03/22	03:15	49.5	37.3	35.5	33.2
02/03/22	03:30	49.2	38.1	35.8	32.8
02/03/22	03:45	41.5	35.2	33.6	31.9
02/03/22	04:00	49.0	36.6	34.8	32.8
02/03/22	04:15	48.0	37.3	35.0	31.7

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
02/03/22	04:30	48.4	37.5	35.2	32.1
02/03/22	04:45	49.0	37.8	35.6	33.4
02/03/22	05:00	50.7	37.4	35.6	33.4
02/03/22	05:15	63.1	39.0	40.3	33.3
02/03/22	05:30	48.6	37.6	35.7	33.4
02/03/22	05:45	52.0	38.5	36.7	34.7
02/03/22	06:00	87.0	50.0	56.0	35.2
02/03/22	06:15	84.4	57.0	55.0	38.2
02/03/22	06:30	88.3	64.0	64.3	38.7
02/03/22	06:45	78.6	49.9	49.9	39.1
	Arith. Average	53.5	40.0	38.5	34.0
	Log. Average	76.8	50.3	50.5	34.7
	Minimum	41.5	34.3	33.0	31.4
	Maximum	88.3	64.0	64.3	39.1
02/03/22	07:00	79.2	45.8	48.5	39.6
02/03/22	07:15	67.2	49.1	47.3	40.1
02/03/22	07:30	87.9	53.8	61.6	39.9
02/03/22	07:45	70.1	50.0	49.6	39.3
02/03/22	08:00	67.4	51.7	49.1	38.9
02/03/22	08:15	70.0	50.1	48.2	39.7
02/03/22	08:30	61.2	51.1	46.8	38.3
02/03/22	08:45	71.8	51.1	51.7	37.7
02/03/22	09:00	70.8	52.2	49.6	38.4
02/03/22	09:15	72.4	48.7	47.6	37.4
02/03/22	09:30	68.6	52.0	48.8	36.6
02/03/22	09:45	68.4	44.9	45.2	36.2
02/03/22	10:00	67.8	45.7	45.7	36.6
02/03/22	10:15	69.5	49.3	49.5	37.6
02/03/22	10:30	75.3	51.0	51.2	37.5
02/03/22	10:45	65.8	47.5	45.8	37.1
02/03/22	11:00	65.7	45.4	43.2	35.0
02/03/22	11:15	68.6	48.8	46.8	36.2
02/03/22	11:30	65.3	46.3	44.3	35.8
02/03/22	11:45	66.8	47.8	44.6	35.9
02/03/22	12:00	75.2	51.8	54.5	35.4
02/03/22	12:15	77.8	49.0	51.1	36.4
02/03/22	12:30	76.9	44.2	48.5	35.3
02/03/22	12:45	68.0	44.3	43.3	34.4
02/03/22	13:00	67.3	43.8	42.6	35.0
02/03/22	13:15	66.2	45.5	45.2	36.2
02/03/22	13:30	68.0	45.7	46.3	33.9
02/03/22	13:45	83.9	47.1	52.8	34.5
02/03/22	14:00	56.7	42.3	39.5	34.7
02/03/22	14:15	63.5	41.2	40.0	35.3
02/03/22	14:30	70.8	47.4	45.9	36.4

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
02/03/22	14:45	66.5	43.7	46.4	35.2
02/03/22	15:00	71.3	45.5	46.3	35.5
02/03/22	15:15	63.7	46.3	43.8	35.4
02/03/22	15:30	72.7	46.6	44.9	35.8
02/03/22	15:45	69.2	46.2	45.2	35.9
02/03/22	16:00	68.8	42.4	43.7	35.5
02/03/22	16:15	66.7	46.7	44.8	36.8
02/03/22	16:30	69.9	45.4	47.3	36.9
02/03/22	16:45	65.9	46.6	44.4	38.1
02/03/22	17:00	78.9	48.7	51.5	37.8
02/03/22	17:15	61.4	43.2	42.1	37.9
02/03/22	17:30	64.2	45.8	43.7	38.7
02/03/22	17:45	68.0	44.8	44.7	39.0
02/03/22	18:00	65.0	47.6	45.1	38.2
02/03/22	18:15	67.1	44.0	44.6	37.5
02/03/22	18:30	58.1	43.7	42.1	36.3
02/03/22	18:45	68.2	38.8	42.0	34.6
02/03/22	19:00	65.8	44.2	44.0	34.7
02/03/22	19:15	66.1	37.5	42.1	33.6
02/03/22	19:30	63.6	38.2	39.9	34.0
02/03/22	19:45	59.9	41.4	39.5	33.8
02/03/22	20:00	63.5	38.5	39.6	33.2
02/03/22	20:15	53.4	38.0	37.1	32.8
02/03/22	20:30	53.7	38.9	37.2	34.4
02/03/22	20:45	69.8	41.0	42.5	35.1
02/03/22	21:00	47.7	40.3	38.2	34.9
02/03/22	21:15	56.3	40.8	38.7	35.3
02/03/22	21:30	53.6	38.6	36.4	32.1
02/03/22	21:45	51.2	39.9	36.8	31.6
02/03/22	22:00	64.8	40.0	40.4	31.7
02/03/22	22:15	41.3	36.0	34.2	32.2
02/03/22	22:30	55.6	40.6	39.8	33.5
02/03/22	22:45	53.6	39.9	38.4	34.4
	Arith. Average	66.2	45.1	44.7	36.0
	Log. Average	73.7	47.0	48.3	36.5
	Minimum	41.3	36.0	34.2	31.6
	Maximum	87.9	53.8	61.6	40.1
02/03/22	23:00	50.6	39.3	37.5	35.0
02/03/22	23:15	45.6	38.4	36.6	34.5
02/03/22	23:30	46.9	38.6	36.6	34.1
02/03/22	23:45	47.9	37.4	35.6	33.6
03/03/22	00:00	41.0	37.2	35.5	33.5
03/03/22	00:15	43.8	38.6	36.4	33.6
03/03/22	00:30	45.0	37.5	35.9	33.9
03/03/22	00:45	45.3	37.8	36.1	33.9

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
03/03/22	01:00	46.2	36.8	35.1	33.2
03/03/22	01:15	42.0	37.0	35.3	33.1
03/03/22	01:30	45.8	37.7	36.0	33.9
03/03/22	01:45	44.1	37.0	35.5	33.8
03/03/22	02:00	40.1	37.1	35.7	34.0
03/03/22	02:15	45.5	37.3	35.7	33.9
03/03/22	02:30	47.5	37.5	36.0	34.1
03/03/22	02:45	47.0	37.9	36.5	34.8
03/03/22	03:00	45.5	38.4	36.9	35.2
03/03/22	03:15	47.0	39.3	37.9	36.2
03/03/22	03:30	47.6	39.5	37.8	35.5
03/03/22	03:45	45.8	38.4	36.6	34.6
03/03/22	04:00	44.4	36.6	34.9	32.9
03/03/22	04:15	37.7	34.7	33.4	32.1
03/03/22	04:30	38.4	34.6	33.3	31.7
03/03/22	04:45	41.9	34.4	32.9	31.2
03/03/22	05:00	46.6	33.7	32.1	30.6
03/03/22	05:15	41.8	34.1	32.4	30.7
03/03/22	05:30	53.0	36.6	34.9	31.9
03/03/22	05:45	62.2	38.4	38.3	32.8
03/03/22	06:00	74.1	51.3	52.2	36.1
03/03/22	06:15	86.6	58.0	60.7	37.3
03/03/22	06:30	70.5	49.9	48.1	34.9
03/03/22	06:45	69.6	56.8	53.6	34.7
	Arith. Average	49.3	39.3	37.9	33.8
	Log. Average	72.0	46.7	47.4	34.1
	Minimum	37.7	33.7	32.1	30.6
	Maximum	86.6	58.0	60.7	37.3
03/03/22	07:00	75.2	62.2	57.3	35.2
03/03/22	07:15	61.5	45.2	41.9	33.7
03/03/22	07:30	64.9	49.1	46.2	34.5
03/03/22	07:45	71.6	54.1	52.1	34.8
03/03/22	08:00	84.7	58.0	57.9	36.4
03/03/22	08:15	73.9	54.0	53.5	34.0
03/03/22	08:30	70.9	52.4	50.0	35.5
03/03/22	08:45	88.9	54.0	61.8	38.3
03/03/22	09:00	69.4	50.6	48.3	36.0
03/03/22	09:15	68.5	47.6	45.8	33.6
03/03/22	09:30	68.1	54.5	50.9	36.4
03/03/22	09:45	72.9	53.7	50.2	35.1
03/03/22	10:00	74.6	59.0	57.2	35.6
03/03/22	10:15	71.8	60.0	55.5	37.2
03/03/22	10:30	72.8	52.6	52.2	34.9
03/03/22	10:45	56.0	41.7	38.8	32.7
03/03/22	11:00	70.6	45.5	43.8	33.8

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
03/03/22	11:15	69.8	55.1	51.2	33.6
03/03/22	11:30	65.7	46.8	45.0	33.1
03/03/22	11:45	66.4	46.3	45.1	33.5
03/03/22	12:00	65.7	44.8	43.1	32.9
03/03/22	12:15	66.4	46.3	45.2	33.3
03/03/22	12:30	69.8	44.6	46.5	33.8
03/03/22	12:45	75.3	48.1	54.0	35.0
03/03/22	13:00	67.4	49.3	47.1	35.2
03/03/22	13:15	64.9	41.9	42.5	33.0
03/03/22	13:30	66.7	46.7	45.1	33.2
03/03/22	13:45	65.1	45.0	43.8	33.5
03/03/22	14:00	75.4	50.3	49.9	34.1
03/03/22	14:15	67.1	46.8	45.9	33.4
03/03/22	14:30	65.9	45.4	44.2	33.0
03/03/22	14:45	70.4	48.3	50.5	33.3
03/03/22	15:00	74.5	47.2	48.3	35.0
03/03/22	15:15	74.8	45.6	46.6	34.7
03/03/22	15:30	71.9	55.8	53.5	34.5
03/03/22	15:45	71.2	43.4	43.3	33.0
03/03/22	16:00	68.1	44.7	45.1	33.3
03/03/22	16:15	62.6	43.3	41.7	32.8
03/03/22	16:30	69.4	42.6	42.6	32.5
03/03/22	16:45	70.2	44.1	44.2	32.1
03/03/22	17:00	62.3	42.6	42.0	31.8
03/03/22	17:15	73.7	51.7	55.1	32.7
03/03/22	17:30	74.1	46.4	53.0	33.6
03/03/22	17:45	66.3	47.2	44.6	34.8
03/03/22	18:00	64.7	47.6	44.4	32.5
03/03/22	18:15	45.8	37.0	34.6	31.8
03/03/22	18:30	53.4	37.9	36.5	31.0
03/03/22	18:45	62.3	38.6	40.5	29.1
03/03/22	19:00	61.8	35.5	37.1	29.0
03/03/22	19:15	49.6	32.8	30.5	28.0
03/03/22	19:30	72.5	48.1	53.1	28.9
03/03/22	19:45	51.1	33.1	31.9	26.7
03/03/22	20:00	44.0	40.9	34.8	27.3
03/03/22	20:15	65.8	38.8	43.0	27.1
03/03/22	20:30	66.6	39.7	39.5	27.1
03/03/22	20:45	62.7	32.6	35.8	26.6
03/03/22	21:00	48.2	35.3	32.6	27.0
03/03/22	21:15	65.8	40.0	44.1	27.2
03/03/22	21:30	38.7	30.4	28.9	27.0
03/03/22	21:45	42.1	32.5	29.9	27.1
03/03/22	22:00	57.9	34.1	35.7	27.3
03/03/22	22:15	54.7	35.3	34.0	27.4
03/03/22	22:30	50.2	37.5	34.1	27.3

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
03/03/22	22:45	42.4	32.2	29.5	27.2
	Arith. Average	65.3	45.2	44.6	32.3
	Log. Average	74.1	51.0	50.3	33.2
	Minimum	38.7	30.4	28.9	26.6
	Maximum	88.9	62.2	61.8	38.3
03/03/22	23:00	51.8	34.6	34.3	26.9
03/03/22	23:15	45.3	32.6	29.9	27.0
03/03/22	23:30	37.9	28.6	27.9	27.1
03/03/22	23:45	64.5	30.3	36.3	27.1
04/03/22	00:00	40.8	28.5	27.8	27.1
04/03/22	00:15	35.0	28.2	27.6	27.0
04/03/22	00:30	34.3	28.0	27.4	26.8
04/03/22	00:45	47.1	28.2	27.7	26.9
04/03/22	01:00	34.3	28.2	27.5	26.7
04/03/22	01:15	34.8	28.2	27.6	27.0
04/03/22	01:30	35.4	28.4	27.7	27.0
04/03/22	01:45	36.6	28.3	27.6	27.0
04/03/22	02:00	44.8	28.3	27.7	27.0
04/03/22	02:15	35.2	28.1	27.4	26.8
04/03/22	02:30	37.2	28.2	27.6	27.0
04/03/22	02:45	41.8	29.7	28.5	26.9
04/03/22	03:00	31.7	28.2	27.6	27.0
04/03/22	03:15	32.9	28.4	27.6	26.9
04/03/22	03:30	35.4	28.1	27.4	26.8
04/03/22	03:45	53.0	29.4	29.9	26.8
04/03/22	04:00	35.5	28.0	27.4	26.7
04/03/22	04:15	42.5	29.2	28.3	26.6
04/03/22	04:30	39.6	28.3	27.8	26.7
04/03/22	04:45	55.8	28.4	31.0	26.6
04/03/22	05:00	41.1	32.0	29.5	26.7
04/03/22	05:15	60.2	35.9	35.5	26.9
04/03/22	05:30	53.2	37.7	34.8	27.6
04/03/22	05:45	63.1	46.0	41.6	29.2
04/03/22	06:00	73.9	64.4	58.5	37.4
04/03/22	06:15	78.9	56.4	59.1	36.5
04/03/22	06:30	63.8	49.9	45.7	36.7
04/03/22	06:45	64.9	49.8	46.7	35.8
	Arith. Average	46.3	33.3	32.5	28.2
	Log. Average	65.5	50.3	47.1	30.1
	Minimum	31.7	28.0	27.4	26.6
	Maximum	78.9	64.4	59.1	37.4
04/03/22	07:00	60.8	50.0	46.0	35.2
04/03/22	07:15	69.4	51.2	47.9	35.9
04/03/22	07:30	75.7	57.6	55.4	37.8

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
04/03/22	07:45	69.4	58.2	52.1	35.6
04/03/22	08:00	66.9	53.4	49.9	35.5
04/03/22	08:15	65.6	48.7	49.4	35.0
04/03/22	08:30	66.2	50.2	48.8	35.4
04/03/22	08:45	75.6	57.2	56.5	34.4
04/03/22	09:00	75.1	51.8	53.5	34.3
04/03/22	09:15	66.5	47.4	44.8	34.1
04/03/22	09:30	72.4	56.3	53.3	34.5
04/03/22	09:45	74.1	47.5	50.0	35.4
04/03/22	10:00	74.5	42.5	46.6	33.6
04/03/22	10:15	65.7	47.7	44.5	33.6
04/03/22	10:30	63.3	49.0	46.9	37.7
04/03/22	10:45	76.0	43.9	46.8	32.9
04/03/22	11:00	59.5	47.7	43.8	34.7
04/03/22	11:15	67.8	48.5	48.2	33.8
04/03/22	11:30	69.4	43.8	46.1	33.9
04/03/22	11:45	58.3	42.7	39.8	33.0
04/03/22	12:00	62.6	42.1	40.1	31.5
04/03/22	12:15	63.0	44.8	43.9	33.4
04/03/22	12:30	56.6	43.8	40.2	33.2
04/03/22	12:45	65.0	42.8	43.0	33.4
04/03/22	13:00	84.8	53.3	57.3	33.0
04/03/22	13:15	66.1	44.7	43.1	34.5
04/03/22	13:30	67.2	46.0	45.0	34.0
04/03/22	13:45	56.8	41.6	38.9	34.6
04/03/22	14:00	70.4	45.8	45.8	34.5
04/03/22	14:15	69.2	42.3	44.2	34.4
04/03/22	14:30	61.9	42.7	41.4	35.5
04/03/22	14:45	65.3	40.6	42.4	34.9
04/03/22	15:00	71.2	38.6	42.5	34.8
04/03/22	15:15	68.9	43.2	44.2	35.5
04/03/22	15:30	66.9	42.5	42.9	36.2
04/03/22	15:45	65.3	45.2	43.7	36.3
04/03/22	16:00	61.1	44.7	42.6	37.1
04/03/22	16:15	65.1	42.5	43.3	37.1
04/03/22	16:30	67.9	43.7	43.4	37.0
04/03/22	16:45	74.7	45.6	47.2	37.5
04/03/22	17:00	74.6	45.0	50.6	36.9
04/03/22	17:15	62.0	40.3	40.1	36.5
04/03/22	17:30	68.9	44.1	44.1	36.8
04/03/22	17:45	73.6	46.2	53.3	36.7
04/03/22	18:00	82.1	48.9	54.6	37.3
04/03/22	18:15	70.3	44.5	49.1	37.1
04/03/22	18:30	69.5	42.7	44.3	36.4
04/03/22	18:45	56.8	40.9	39.6	36.4
04/03/22	19:00	45.5	38.2	37.2	36.0

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
04/03/22	19:15	60.0	39.4	39.1	35.6
04/03/22	19:30	69.0	40.2	42.5	35.5
04/03/22	19:45	70.8	37.0	41.8	34.6
04/03/22	20:00	47.3	36.5	35.7	34.8
04/03/22	20:15	50.5	36.7	36.2	34.3
04/03/22	20:30	50.2	39.7	37.3	34.3
04/03/22	20:45	57.0	42.8	40.9	34.2
04/03/22	21:00	52.4	37.6	36.4	34.1
04/03/22	21:15	66.6	39.7	42.7	34.3
04/03/22	21:30	51.2	37.5	36.6	34.6
04/03/22	21:45	62.9	38.5	40.6	34.7
04/03/22	22:00	51.6	37.0	36.5	33.9
04/03/22	22:15	40.8	35.8	34.9	33.9
04/03/22	22:30	50.7	40.1	37.2	33.2
04/03/22	22:45	54.5	39.7	38.3	33.0
	Arith. Average	64.7	44.4	44.3	35.0
	Log. Average	71.8	48.4	48.0	35.2
	Minimum	40.8	35.8	34.9	31.5
	Maximum	84.8	58.2	57.3	37.8
04/03/22	23:00	62.4	46.2	44.2	33.9
04/03/22	23:15	38.5	35.4	34.2	33.2
04/03/22	23:30	43.3	37.0	35.4	33.5
04/03/22	23:45	50.4	36.6	35.1	32.9
05/03/22	00:00	44.7	35.7	34.2	32.7
05/03/22	00:15	46.0	36.1	34.5	32.5
05/03/22	00:30	65.7	36.1	39.5	32.6
05/03/22	00:45	57.3	35.4	37.0	31.6
05/03/22	01:00	40.3	33.5	32.0	30.4
05/03/22	01:15	47.3	34.4	33.1	31.6
05/03/22	01:30	40.8	33.6	32.1	30.2
05/03/22	01:45	50.3	35.7	34.5	31.4
05/03/22	02:00	41.8	32.7	31.7	30.6
05/03/22	02:15	45.2	33.1	31.8	30.2
05/03/22	02:30	36.8	31.7	30.9	30.1
05/03/22	02:45	48.6	35.7	33.6	30.7
05/03/22	03:00	46.3	35.3	33.4	31.6
05/03/22	03:15	64.6	39.9	38.3	33.1
05/03/22	03:30	70.0	40.8	44.5	33.5
05/03/22	03:45	49.1	35.7	33.9	31.4
05/03/22	04:00	48.2	39.7	36.3	32.0
05/03/22	04:15	44.8	39.1	36.2	32.3
05/03/22	04:30	44.8	36.8	34.7	32.2
05/03/22	04:45	40.4	35.5	33.7	31.7
05/03/22	05:00	48.7	36.6	35.0	32.5
05/03/22	05:15	51.2	38.6	36.6	33.7

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
05/03/22	05:30	58.8	41.4	39.0	34.0
05/03/22	05:45	58.1	40.1	38.3	34.8
05/03/22	06:00	71.8	53.1	53.3	36.9
05/03/22	06:15	74.5	45.5	53.1	35.7
05/03/22	06:30	67.7	45.5	42.9	36.0
05/03/22	06:45	65.3	45.7	42.6	37.1
	Arith. Average	52.0	38.1	37.1	32.7
	Log. Average	63.6	41.9	42.7	33.1
	Minimum	36.8	31.7	30.9	30.1
	Maximum	74.5	53.1	53.3	37.1
05/03/22	07:00	62.9	45.6	43.1	37.0
05/03/22	07:15	67.7	46.8	45.2	37.8
05/03/22	07:30	64.7	44.1	42.1	37.8
05/03/22	07:45	64.9	46.5	44.1	38.8
05/03/22	08:00	65.1	46.1	44.7	39.2
05/03/22	08:15	63.2	44.4	43.3	39.1
05/03/22	08:30	61.4	47.8	45.1	39.6
05/03/22	08:45	60.8	46.7	44.5	39.4
05/03/22	09:00	67.3	47.9	46.2	40.5
05/03/22	09:15	56.9	46.0	43.3	39.2
05/03/22	09:30	62.6	47.9	45.0	40.6
05/03/22	09:45	56.3	47.0	44.6	41.1
05/03/22	10:00	58.7	45.6	43.7	40.5
05/03/22	10:15	66.0	45.7	44.6	40.5
05/03/22	10:30	58.8	47.1	44.3	40.0
05/03/22	10:45	68.7	50.2	49.1	40.0
05/03/22	11:00	55.1	47.1	44.6	41.0
05/03/22	11:15	64.8	45.6	45.1	40.0
05/03/22	11:30	66.6	47.3	46.8	41.1
05/03/22	11:45	66.6	48.8	48.1	42.6
05/03/22	12:00	65.6	47.5	45.4	40.3
05/03/22	12:15	60.9	44.2	42.9	39.0
05/03/22	12:30	69.9	48.7	47.7	40.7
05/03/22	12:45	74.3	50.1	54.5	40.7
05/03/22	13:00	67.7	48.3	46.9	42.3
05/03/22	13:15	63.0	47.8	45.2	41.1
05/03/22	13:30	63.6	46.3	44.3	40.2
05/03/22	13:45	60.0	46.9	44.7	41.4
05/03/22	14:00	64.0	46.0	45.1	41.5
05/03/22	14:15	66.7	45.3	45.3	41.1
05/03/22	14:30	63.1	48.5	46.4	42.2
05/03/22	14:45	57.4	49.7	46.4	41.5
05/03/22	15:00	64.1	46.3	44.7	41.2
05/03/22	15:15	54.6	45.8	43.6	40.2
05/03/22	15:30	59.8	51.2	48.1	42.7

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
05/03/22	15:45	70.3	48.7	47.8	40.5
05/03/22	16:00	66.3	45.4	44.1	38.5
05/03/22	16:15	69.2	49.4	49.6	41.2
05/03/22	16:30	65.0	46.8	45.2	40.9
05/03/22	16:45	65.8	45.0	45.1	41.1
05/03/22	17:00	64.1	45.9	44.9	39.7
05/03/22	17:15	66.9	48.7	47.0	39.9
05/03/22	17:30	67.9	48.4	46.7	41.0
05/03/22	17:45	70.5	47.1	46.0	39.7
05/03/22	18:00	62.3	46.4	44.3	39.3
05/03/22	18:15	66.6	46.2	45.5	40.0
05/03/22	18:30	66.0	44.7	43.9	39.5
05/03/22	18:45	55.4	43.9	41.8	38.8
05/03/22	19:00	63.5	43.7	42.5	38.1
05/03/22	19:15	61.9	40.3	40.3	37.5
05/03/22	19:30	51.6	41.8	40.3	38.0
05/03/22	19:45	42.4	39.6	38.3	37.0
05/03/22	20:00	44.9	38.2	37.4	36.6
05/03/22	20:15	45.3	39.4	37.6	35.9
05/03/22	20:30	44.1	39.2	37.2	35.2
05/03/22	20:45	71.1	42.5	44.6	35.2
05/03/22	21:00	52.6	38.1	36.7	34.4
05/03/22	21:15	43.8	37.3	35.9	34.4
05/03/22	21:30	46.9	39.3	37.1	34.6
05/03/22	21:45	52.4	42.8	39.6	35.5
05/03/22	22:00	70.1	40.7	43.1	35.8
05/03/22	22:15	57.0	43.4	40.6	35.3
05/03/22	22:30	53.3	41.8	39.0	34.4
05/03/22	22:45	58.3	47.6	44.5	38.3
	Arith. Average	61.4	45.5	44.0	39.2
	Log. Average	65.3	46.4	45.3	39.7
	Minimum	42.4	37.3	35.9	34.4
	Maximum	74.3	51.2	54.5	42.7
05/03/22	23:00	56.6	46.0	43.3	39.1
05/03/22	23:15	62.0	49.0	46.4	41.2
05/03/22	23:30	57.5	47.4	44.6	39.5
05/03/22	23:45	61.4	46.2	42.6	36.5
06/03/22	00:00	54.9	46.2	42.9	37.3
06/03/22	00:15	49.8	41.3	38.5	35.0
06/03/22	00:30	58.5	43.2	39.7	34.7
06/03/22	00:45	60.0	44.0	41.2	34.5
06/03/22	01:00	52.7	41.9	38.6	33.9
06/03/22	01:15	56.6	43.7	40.5	35.7
06/03/22	01:30	55.3	44.9	41.4	35.6
06/03/22	01:45	50.9	43.1	40.1	35.7

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
06/03/22	02:00	54.1	43.2	40.2	35.2
06/03/22	02:15	50.9	42.1	39.4	35.2
06/03/22	02:30	46.5	39.5	37.0	33.4
06/03/22	02:45	45.8	38.7	36.4	33.6
06/03/22	03:00	52.8	41.7	38.8	34.5
06/03/22	03:15	52.2	39.9	37.6	34.4
06/03/22	03:30	52.7	39.7	36.4	32.3
06/03/22	03:45	49.3	41.3	38.0	33.5
06/03/22	04:00	44.0	38.4	36.1	33.5
06/03/22	04:15	44.1	36.7	34.4	32.2
06/03/22	04:30	47.1	37.3	35.6	31.9
06/03/22	04:45	46.1	35.4	33.6	31.2
06/03/22	05:00	45.8	38.1	35.9	33.4
06/03/22	05:15	45.4	38.2	35.9	33.1
06/03/22	05:30	56.9	39.0	37.3	33.5
06/03/22	05:45	68.4	41.9	41.4	34.2
06/03/22	06:00	79.3	52.0	57.8	35.5
06/03/22	06:15	83.5	52.2	63.7	35.0
06/03/22	06:30	66.2	47.5	45.0	35.5
06/03/22	06:45	58.2	41.7	39.7	35.6
	Arith. Average	55.2	42.5	40.6	34.9
	Log. Average	70.1	44.8	50.1	35.5
	Minimum	44.0	35.4	33.6	31.2
	Maximum	83.5	52.2	63.7	41.2
06/03/22	07:00	52.3	42.1	39.8	35.9
06/03/22	07:15	62.1	45.6	42.7	36.8
06/03/22	07:30	68.9	45.8	48.0	38.4
06/03/22	07:45	53.8	43.9	41.1	37.1
06/03/22	08:00	61.0	42.7	40.5	36.3
06/03/22	08:15	56.3	43.3	40.7	36.3
06/03/22	08:30	66.4	42.4	43.5	36.8
06/03/22	08:45	63.2	45.2	42.9	36.7
06/03/22	09:00	68.8	50.3	47.5	37.5
06/03/22	09:15	60.7	44.0	41.9	37.8
06/03/22	09:30	73.5	44.5	49.0	37.1
06/03/22	09:45	62.0	49.0	44.8	37.7
06/03/22	10:00	58.4	43.7	41.2	37.3
06/03/22	10:15	75.2	51.4	52.6	38.3
06/03/22	10:30	61.3	47.5	44.7	38.2
06/03/22	10:45	59.8	45.6	43.1	38.1
06/03/22	11:00	60.6	46.5	43.9	38.6
06/03/22	11:15	62.5	44.6	42.8	38.0
06/03/22	11:30	64.8	46.2	45.0	38.2
06/03/22	11:45	65.8	43.9	43.2	36.8
06/03/22	12:00	65.7	47.2	44.9	38.4

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
06/03/22	12:15	64.4	46.7	44.1	38.1
06/03/22	12:30	60.3	45.7	43.6	37.9
06/03/22	12:45	60.2	46.7	44.1	38.7
06/03/22	13:00	70.8	46.9	46.9	38.4
06/03/22	13:15	73.9	47.1	48.8	40.1
06/03/22	13:30	54.6	46.4	43.6	40.0
06/03/22	13:45	67.7	52.2	49.2	41.1
06/03/22	14:00	67.5	51.6	48.8	40.7
06/03/22	14:15	67.1	48.2	45.9	38.9
06/03/22	14:30	68.3	47.7	46.5	38.4
06/03/22	14:45	54.1	45.0	42.2	38.4
06/03/22	15:00	57.8	46.4	42.7	36.9
06/03/22	15:15	67.1	49.4	46.4	39.9
06/03/22	15:30	69.2	47.9	46.4	40.2
06/03/22	15:45	63.1	48.3	45.7	39.5
06/03/22	16:00	65.6	48.7	45.9	40.1
06/03/22	16:15	55.8	46.7	44.1	40.2
06/03/22	16:30	60.8	48.6	45.8	40.4
06/03/22	16:45	78.0	49.1	54.6	39.0
06/03/22	17:00	62.7	49.6	46.7	40.6
06/03/22	17:15	71.0	48.6	47.7	39.6
06/03/22	17:30	63.6	52.3	47.8	39.4
06/03/22	17:45	53.1	44.2	41.8	38.6
06/03/22	18:00	63.4	43.3	42.0	38.4
06/03/22	18:15	69.6	45.4	46.3	38.3
06/03/22	18:30	53.3	44.5	41.7	38.3
06/03/22	18:45	63.9	41.7	42.6	37.5
06/03/22	19:00	63.1	43.4	42.2	37.8
06/03/22	19:15	50.8	42.9	40.5	37.8
06/03/22	19:30	52.0	41.9	39.6	36.9
06/03/22	19:45	61.2	42.2	40.6	36.6
06/03/22	20:00	58.8	39.9	39.3	36.3
06/03/22	20:15	61.6	39.1	39.5	36.3
06/03/22	20:30	48.0	38.6	37.5	35.9
06/03/22	20:45	55.7	41.4	39.4	36.0
06/03/22	21:00	52.7	40.0	38.4	35.6
06/03/22	21:15	49.2	38.5	36.9	34.8
06/03/22	21:30	53.9	38.1	37.4	33.6
06/03/22	21:45	52.6	35.8	35.4	33.0
06/03/22	22:00	40.0	35.6	34.4	33.1
06/03/22	22:15	46.6	36.8	35.6	33.9
06/03/22	22:30	48.0	36.5	35.2	33.4
06/03/22	22:45	50.7	38.4	36.9	33.9
	Arith. Average	60.9	44.7	43.2	37.6
	Log. Average	66.5	46.4	45.2	38.0
	Minimum	40.0	35.6	34.4	33.0

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
	Maximum	78.0	52.3	54.6	41.1
06/03/22	23:00	49.4	36.9	35.7	34.2
06/03/22	23:15	42.4	34.8	33.8	32.7
06/03/22	23:30	52.6	35.8	34.7	32.6
06/03/22	23:45	44.4	35.9	33.8	31.2
07/03/22	00:00	45.3	33.8	32.5	30.2
07/03/22	00:15	37.6	33.0	31.8	30.6
07/03/22	00:30	36.4	33.0	31.8	30.6
07/03/22	00:45	44.9	32.2	31.5	29.7
07/03/22	01:00	46.1	34.9	32.6	30.0
07/03/22	01:15	37.7	32.1	30.9	29.7
07/03/22	01:30	36.7	32.7	31.2	29.9
07/03/22	01:45	36.9	31.9	30.6	29.4
07/03/22	02:00	51.2	33.4	32.0	29.8
07/03/22	02:15	39.7	32.8	31.3	29.8
07/03/22	02:30	37.5	32.6	30.9	29.1
07/03/22	02:45	40.0	34.7	32.4	29.8
07/03/22	03:00	40.0	34.7	33.0	31.1
07/03/22	03:15	38.8	33.7	31.9	30.0
07/03/22	03:30	40.9	33.4	31.3	29.1
07/03/22	03:45	59.9	33.4	36.7	29.3
07/03/22	04:00	39.3	34.4	32.9	31.3
07/03/22	04:15	40.7	36.5	34.8	32.7
07/03/22	04:30	42.8	37.8	36.3	34.5
07/03/22	04:45	53.9	40.7	39.1	34.6
07/03/22	05:00	43.0	38.2	36.6	34.8
07/03/22	05:15	49.6	40.4	38.7	36.3
07/03/22	05:30	56.3	41.2	39.9	37.7
07/03/22	05:45	65.4	48.0	46.3	38.4
07/03/22	06:00	76.3	63.7	59.1	40.1
07/03/22	06:15	65.4	49.2	46.0	40.8
07/03/22	06:30	77.0	51.9	51.3	41.1
07/03/22	06:45	76.0	50.4	51.1	41.8
	Arith. Average	48.3	37.8	36.3	32.9
	Log. Average	66.5	49.5	45.9	35.1
	Minimum	36.4	31.9	30.6	29.1
	Maximum	77.0	63.7	59.1	41.8
07/03/22	07:00	66.1	50.8	49.2	42.2
07/03/22	07:15	73.1	51.2	50.2	43.6
07/03/22	07:30	68.8	47.4	47.0	42.4
07/03/22	07:45	76.1	51.2	54.5	40.8
07/03/22	08:00	68.9	49.2	47.5	40.0
07/03/22	08:15	64.7	48.0	44.6	39.2
07/03/22	08:30	66.3	49.8	47.5	38.9

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
07/03/22	08:45	63.8	49.5	45.9	38.7
07/03/22	09:00	73.3	48.5	49.5	39.9
07/03/22	09:15	76.2	47.7	50.8	39.0
07/03/22	09:30	71.5	49.3	48.3	42.2
07/03/22	09:45	66.7	48.0	46.4	41.3
07/03/22	10:00	63.8	45.2	44.1	37.9
07/03/22	10:15	68.9	46.1	45.7	36.1
07/03/22	10:30	54.8	43.8	41.0	36.9
07/03/22	10:45	76.4	47.1	50.4	38.0
07/03/22	11:00	67.0	45.4	45.3	38.8
07/03/22	11:15	63.6	44.7	42.8	38.7
07/03/22	11:30	62.2	45.7	43.7	38.3
07/03/22	11:45	60.8	46.5	43.7	38.0
07/03/22	12:00	65.2	46.3	45.0	39.4
07/03/22	12:15	61.0	43.6	41.4	37.7
07/03/22	12:30	72.5	47.9	50.4	38.4
07/03/22	12:45	79.9	46.9	52.3	38.6
07/03/22	13:00	61.3	48.1	45.5	39.1
07/03/22	13:15	68.9	47.8	46.9	40.8
07/03/22	13:30	69.2	47.5	45.9	40.0
07/03/22	13:45	65.6	47.1	46.2	38.8
07/03/22	14:00	64.7	46.5	45.4	36.4
07/03/22	14:15	61.4	43.5	41.6	35.8
07/03/22	14:30	67.5	46.5	45.6	37.2
07/03/22	14:45	70.4	48.0	47.8	38.5
07/03/22	15:00	68.9	45.5	44.7	37.4
07/03/22	15:15	55.4	45.5	42.9	38.8
07/03/22	15:30	67.2	47.4	47.6	38.8
07/03/22	15:45	63.6	46.9	44.3	38.8
07/03/22	16:00	77.3	47.1	48.5	38.6
07/03/22	16:15	64.3	46.5	44.2	39.4
07/03/22	16:30	62.9	47.8	44.7	37.3
07/03/22	16:45	63.9	46.3	44.2	39.1
07/03/22	17:00	68.7	44.0	43.8	37.7
07/03/22	17:15	70.9	45.6	48.2	38.3
07/03/22	17:30	65.1	43.7	42.7	38.0
07/03/22	17:45	64.4	41.0	41.3	37.6
07/03/22	18:00	72.9	44.3	44.2	38.1
07/03/22	18:15	60.3	40.9	41.8	38.1
07/03/22	18:30	53.1	43.2	41.0	38.5
07/03/22	18:45	57.9	39.9	39.4	37.3
07/03/22	19:00	68.9	42.0	44.2	36.3
07/03/22	19:15	49.8	39.0	37.2	34.9
07/03/22	19:30	64.9	37.8	40.4	34.6
07/03/22	19:45	67.6	38.3	42.3	33.7
07/03/22	20:00	44.6	36.2	35.1	33.9

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2 x 10 ⁻⁵ Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
07/03/22	20:15	44.0	34.7	33.6	32.3
07/03/22	20:30	70.3	35.0	43.7	32.0
07/03/22	20:45	56.1	41.0	37.9	32.8
07/03/22	21:00	51.0	38.5	36.0	31.7
07/03/22	21:15	68.9	43.0	44.5	31.8
07/03/22	21:30	50.6	42.2	38.8	33.8
07/03/22	21:45	56.2	43.2	40.2	33.0
07/03/22	22:00	62.8	42.7	40.3	32.5
07/03/22	22:15	58.4	47.3	43.3	35.1
07/03/22	22:30	57.3	47.3	43.8	36.2
07/03/22	22:45	64.6	44.9	42.7	33.0
	Arith. Average	64.6	45.1	44.4	37.5
	Log. Average	69.5	46.3	46.1	38.3
	Minimum	44.0	34.7	33.6	31.7
	Maximum	79.9	51.2	54.5	43.6
07/03/22	23:00	56.5	47.7	44.3	37.7
07/03/22	23:15	63.2	47.0	43.6	37.2
07/03/22	23:30	57.1	44.4	40.9	33.9
07/03/22	23:45	63.2	45.2	42.6	34.6
08/03/22	00:00	59.2	45.1	41.9	34.1
08/03/22	00:15	52.0	41.6	38.4	32.9
08/03/22	00:30	53.0	44.8	40.7	32.9
08/03/22	00:45	53.6	42.9	39.7	32.3
08/03/22	01:00	49.7	40.7	37.1	31.1
08/03/22	01:15	50.2	38.5	35.8	31.0
08/03/22	01:30	45.6	38.1	35.0	30.8
08/03/22	01:45	45.9	38.1	35.1	30.9
08/03/22	02:00	47.4	37.9	35.1	30.6
08/03/22	02:15	46.1	36.7	33.7	30.1
08/03/22	02:30	47.0	37.8	35.1	30.2
08/03/22	02:45	46.7	34.5	32.4	29.8
08/03/22	03:00	50.9	40.4	36.9	31.5
08/03/22	03:15	48.6	41.0	37.4	31.9
08/03/22	03:30	47.4	40.4	37.5	33.0
08/03/22	03:45	49.2	39.1	36.7	32.9
08/03/22	04:00	46.6	38.3	35.4	31.3
08/03/22	04:15	46.0	39.1	36.4	32.1
08/03/22	04:30	50.8	37.5	35.6	31.6
08/03/22	04:45	46.1	37.2	34.5	31.0
08/03/22	05:00	42.4	35.8	33.5	31.0
08/03/22	05:15	47.4	38.2	35.4	31.7
08/03/22	05:30	56.3	39.2	37.5	33.6
08/03/22	05:45	67.8	47.1	44.8	34.0
08/03/22	06:00	55.6	44.3	40.8	35.4
08/03/22	06:15	75.3	52.8	55.1	36.5

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Date of Meas.	Start Time	Measured Sound Levels, dB re. 2×10^{-5} Pa.			
		L _{Amax,F}	L _{A10,15 min}	L _{Aeq,15 min}	L _{A90,15 min}
08/03/22	06:30	68.7	47.1	46.4	37.3
08/03/22	06:45	68.5	44.4	45.4	37.6
	Arith. Average	53.3	41.3	38.8	32.9
	Log. Average	62.9	43.7	43.0	33.6
	Minimum	42.4	34.5	32.4	29.8
	Maximum	75.3	52.8	55.1	37.7
08/03/22	07:00	67.1	48.2	45.6	38.5
08/03/22	07:15	67.2	47.6	47.3	38.1
08/03/22	07:30	64.0	45.4	43.5	38.9
08/03/22	07:45	71.3	46.8	47.4	39.9
08/03/22	08:00	68.8	47.5	46.4	39.8
08/03/22	08:15	59.6	49.8	47.1	42.8
08/03/22	08:30	66.3	49.3	47.6	42.6
08/03/22	08:45	69.5	48.9	47.3	42.3
08/03/22	09:00	66.1	50.7	48.1	43.5
08/03/22	09:15	59.8	48.7	45.8	41.4
08/03/22	09:30	66.7	48.9	47.0	41.5
08/03/22	09:45	65.4	48.2	46.1	40.2
08/03/22	10:00	78.2	48.9	54.5	39.2
08/03/22	10:15	70.4	46.6	46.3	39.5
08/03/22	10:30	68.1	49.8	48.3	43.4
08/03/22	10:45	69.9	49.8	48.1	41.2
08/03/22	11:00	82.3	50.2	51.7	41.9
08/03/22	11:15	63.0	48.5	45.4	39.4
08/03/22	11:30	80.3	50.6	53.0	41.3
08/03/22	11:45	62.5	49.3	46.3	40.6
08/03/22	12:00	72.9	47.9	47.4	39.7
08/03/22	12:15	59.6	45.7	43.7	38.1
08/03/22	12:30	79.3	46.5	51.2	37.3
08/03/22	12:45	68.7	43.9	44.1	37.1
08/03/22	13:00	74.7	44.0	46.6	37.2
08/03/22	13:15	58.6	44.6	42.2	37.3
08/03/22	13:30	66.0	48.0	46.3	39.7
08/03/22	13:45	73.3	46.4	47.4	39.1
08/03/22	14:00	61.6	46.5	44.5	39.5
08/03/22	14:15	71.2	50.6	48.2	40.6
08/03/22	14:30	73.6	49.7	53.5	39.4
	Arith. Average	68.6	48.0	47.4	40.0
	Log. Average	73.2	48.4	48.4	40.4
	Minimum	58.6	43.9	42.2	37.1
	Maximum	82.3	50.7	54.5	43.5

TABLE B3 (CTD.): CONTINUOUS UNATTENDED MONITORING RESULTS AT LT1 – PERCHING DROVE, FULKING

Building	Sound Reduction Index (SRI), dB								Rw, dB
	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
Glass Reinforced Plastic Kiosk (GRP)	11	15	21	24	25	27	30	31	26

TABLE B4: ASSUMED SOUND REDUCTION INDEX

Plant	Octave Band Frequency Sound Pressure Level at 1m, dB L _{eq,T} (lin)								Sound Pressure Level at 1m, L _{Aeq,T} dB
	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
Submersible pumps	37	43	44	45	42	45	38	30	65
MCC Kiosk	52	51	47	41	50	50	48	39	55
Air Desludge Kiosk	63	74	80	62	56	49	48	50	72 ^[1]
Ferric Dosing Kiosk	38	47	45	41	43	45	42	36	50
Air Mixing Kiosk	40	51	57	39	33	26	25	26	49 ^[1]
Agi-sac and Ferric Mixing Chamber	38	44	45	46	43	46	38	31	50
Washwater Booster kiosk	68	74	75	76	73	76	68	61	80
<i>Tertiary treatment plant backwash system</i>									
Blower	59	70	76	58	52	45	44	45	68
Backwash Pumps	56	52	63	64	61	64	56	49	68
Compressor	49	55	63	52	55	56	63	66	68

TABLE B5: ASSUMED OCTAVE BAND FREQUENCY PLANT SOURCE-TERM LEVELS

[1] Reference sound level includes sound reduction provided by an enclosure.

APPENDIX C: CALIBRATION CERTIFICATES



CERTIFICATE OF CALIBRATION

Date of Issue: 30 November 2020

Certificate Number: TCRT20/1711

Issued by:

ANV Measurement Systems

Beaufort Court

17 Roebuck Way

Milton Keynes MK5 8HL

Telephone 01908 642846 Fax 01908 642814

E-Mail: info@noise-and-vibration.co.uk

Web: www.noise-and-vibration.co.uk

Acoustics Noise and Vibration Ltd trading as ANV Measurement Systems

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Approved Signatory

K. Mistry

CUSTOMER Southdowns Environmental Consultants Limited
Suite A3
16 Station Street
Lewes
East Sussex
BN7 2DB

ORDER No X-Equipment/563 **Job No** TRAC20/11408

DATE OF RECEIPT 27 November 2020

PROCEDURE Calibration Engineer's Handbook section 3

IDENTIFICATION Sound level meter Rion type NL-32 serial No 00423747 connected via extension lead type EC-04 and preamplifier type NH-21 serial No 36621 to a half-inch microphone type UC-53A serial No 319212 fitted with a foam windshield type WS-03.

CALIBRATED ON 30 November 2020

PREVIOUS CALIBRATION Calibrated on 21 December 2018, Certificate No. TCRT18/1995 issued by this laboratory.

This certificate provides traceability of measurement to recognised national standards, and to units of measurement realised at the National Physical Laboratory or other recognised national standards laboratories. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

FIGURE C1: LT1 UNATTENDED MONITOR CALIBRATION CERTIFICATE - NL-32 S/N 00423747

CERTIFICATE OF CALIBRATION



Certificate Number

TCRT20/1711

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The sound level meter was set to frequency weighting A and adjusted to read correctly in response to a laboratory sound calibrator. This reading took into account manufacturers' information on the free-field response of the sound level meter when fitted with the windshield.

The sound level meter was then tested, and its overall sensitivity adjusted as required.

An acoustic calibration at 1kHz was performed by application of a standard sound calibrator, whilst the tests at 125Hz and 8kHz were performed by the electrostatic actuator method.

RESULTS

The sound level meter was found to conform to the type 1 requirements of BS EN 60651:1994* and BS EN 60804:1994* for those tests carried out.

The self-generated noise recorded was:

9.7 dB (A)

14.8 dB (C)

21.1 dB (Lin)

The expanded level uncertainty of the Laboratory's 1 kHz sound calibrator used during this verification is ± 0.10 dB.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with the *Guide to the Expression of Uncertainty in Measurement* published by the International Organisation for Standards (ISO).

All measurement data are held at ANV Measurement Systems for a period of at least six years.

The case reflection factors have been taken as zero, since an extension lead has been used for this verification.

The reference range, linearity range and primary indicator range specified by the manufacturer have been used. See note 5 Below.

The Rion NL-32 sound level meter design has successfully undergone pattern evaluation at Physikalisch-Technische Bundesanstalt (PTB). It was found to meet the requirements of BS EN 60651* and BS EN 60804* and was granted pattern approval as a Type 1 sound level meter.

No component of uncertainty for manufacturer-specified corrections has been included in the uncertainty budget and, in accordance with amendments to the standards, the measured values obtained during the verification have not been extended by any measurement uncertainty when assessing conformance to each standard.

FIGURE C1 (CTD): LT1 UNATTENDED MONITOR CALIBRATION CERTIFICATE - NL-32 S/N 00423747

CERTIFICATE OF CALIBRATION



Certificate Number

TCRT20/1711

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NOTES

- *1 BS EN 60651:1994 and BS EN 60804:1994 were formerly numbered BS 5969:1981 and BS 6698:1986 respectively.
- 2 No suitable microphone frequency response information was supplied with the instrument. It was therefore measured by this laboratory using the electrostatic actuator method.
- 3 The instrument was tested with integral software as received.
- 4 The NL-32 does not have a "max hold" function available when operating with time weighting I. The results recorded for the test of time weighting I are therefore the highest instantaneous reading shown on the display. Whilst these results meet the requirements of the standard, those for response to a single tone burst in particular may give a misleading impression of the accuracy of time weighting I on this instrument.
- 5 The specifications given in the standard English-language handbook for the NL-32 is incomplete. An addendum to the handbook based on the PTB tests has been provided by Rion, and this revised specification has been used for the purposes of the present verification. For information, extracts from the addendum have been appended as page 4 of this certificate.
-

FIGURE C1: LT1 UNATTENDED MONITOR CALIBRATION CERTIFICATE - NL-32 S/N 00423747

CERTIFICATE OF CALIBRATION



Certificate Number

TCRT20/1711

Page 4 of 4 Pages

The following data supplied by Rion are included for completeness:

Addendum to the NL-32 Instruction Manual

Errata (page 133):

- Total range: 23 to 137 dB(A).
- Linearity range (on 30 - 120 dB reference range): 99 dB (28 to 127).

Additional information

- Primary indicator range (on 30 - 120 dB reference range): 32 - 111 dB, allowing a crest factor of 10 for Impulse time weighting.
- Pulse range: > 63 dB
- Measurement range for various LEVEL settings: See table below.

Measurement ranges				
Measurement range for various "LEVEL" range settings (dB) * Frequency weighting A-, C- and Lin.				
"LEVEL" Setting (dB)	Time weighting			Leq
	Fast/Slow	Impulse	Peak	
20 - 80	23 - 80 **	23 - 70 **	50 - 90	23 - 87 **
20 - 90	23 - 90 **	23 - 80 **	50 - 100	23 - 97 **
20 - 100	23 - 100 **	23 - 90 **	50 - 110	23 - 107 **
20 - 110	23 - 110 **	23 - 100 **	50 - 120	23 - 117 **
30 - 120	28 - 120 **	28 - 110 **	50 - 130	28 - 127 **
40 - 130	38 - 130	38 - 120	50 - 140	38 - 137

* For time weighting Fast and Slow a crest factor 3, and for time weighting Impulse a crest factor 10, is taken into account.
** The lower limit of the measurement range is 30 dB(C) for C-weighting and 35 dB(Lin) for Lin weighting.

END

R 3



CERTIFICATE OF CALIBRATION



0653

Date of Issue: 06 January 2022

Certificate Number: UCRT22/1011

Calibrated at & Certificate issued by:

ANV Measurement Systems

Beaufort Court

17 Roebuck Way

Milton Keynes MK5 8HL

Telephone 01908 642846 Fax 01908 642814

E-Mail: info@noise-and-vibration.co.uk

Web: www.noise-and-vibration.co.uk

Acoustic Noise and Vibration Ltd trading as ANV Measurement Systems

Page 1 of 2 Pages

Approved Signatory



K. Mistry

Customer Southdowns Environmental Consultants Limited
 Suite A3
 16 Station Street
 Lewes
 East Sussex
 BN7 2DB

Order No. X_EQUIPMENT/741

Description Sound Level Meter / Pre-amp / Microphone / Associated Calibrator

Identification	Manufacturer	Instrument	Type	Serial No. / Version
	Rion	Sound Level Meter	NL-52	00553890
	Rion	Firmware		2.0
	Rion	Pre Amplifier	NH-25	43934
	Rion	Microphone	UC-59	08043
	Rion	Calibrator	NC-74	34536109
		Calibrator adaptor type if applicable		NC-74-002

Performance Class 1

Test Procedure TP 2.SLM 61672-3 TPS-49

Procedures from IEC 61672-3:2006 were used to perform the periodic tests.

Type Approved to IEC 61672-1:2002 YES Approval Number 21.21 / 13.02

If YES above there is public evidence that the SLM has successfully completed the applicable pattern evaluation tests of IEC 61672-2:2003

Date Received 13 December 2021

ANV Job No.

UKAS21/12808

Date Calibrated 06 January 2022

The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3:2006, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent testing organisation responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2:2003, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2002, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1:2002.

Previous Certificate	Dated	Certificate No.	Laboratory
	14 August 2019	TCRT19/1642	ANV Measurement Systems

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

FIGURE C2: ATTENDED MONITOR CALIBRATION CERTIFICATE - NL-52 S/N 00553890

CERTIFICATE OF CALIBRATION

Certificate Number
UCRT22/1011

UKAS Accredited Calibration Laboratory No. 0653

Page 2 of 2 Pages

Sound Level Meter Instruction manual and data used to adjust the sound levels indicated.

SLM instruction manual title	Sound Level Meter	NL-42 / NL-52
SLM instruction manual ref / issue		11-03
SLM instruction manual source		Manufacturer
Internet download date if applicable		N/A
Case corrections available		Yes
Uncertainties of case corrections		Yes
Source of case data		Manufacturer
Wind screen corrections available		Yes
Uncertainties of wind screen corrections		Yes
Source of wind screen data		Manufacturer
Mic pressure to free field corrections		Yes
Uncertainties of Mic to F.F. corrections		Yes
Source of Mic to F.F. corrections		Manufacturer
Total expanded uncertainties within the requirements of IEC 61672-1:2002	Yes	
Specified or equivalent Calibrator		Specified
Customer or Lab Calibrator		Lab Calibrator
Calibrator adaptor type if applicable		NC-74-002
Calibrator cal. date		14 December 2021
Calibrator cert. number		UCRT21/2515
Calibrator cal cert issued by		0653
Calibrator SPL @ STP	94.04	dB Calibration reference sound pressure level
Calibrator frequency	1001.94	Hz Calibration check frequency
Reference level range	25 - 130	dB

Accessories used or corrected for during calibration - Extension Cable & Wind Shield WS-15
 Note - if a pre-amp extension cable is listed then it was used between the SLM and the pre-amp.

Environmental conditions during tests	Start	End	
Temperature	22.98	23.28	± 0.30 °C
Humidity	38.4	38.5	± 3.00 %RH
Ambient Pressure	100.54	100.54	± 0.03 kPa

Response to associated Calibrator at the environmental conditions above.

Initial indicated level	94.8	dB	Adjusted indicated level	94.0	dB
The uncertainty of the associated calibrator supplied with the sound level meter ±			0.10 dB		

Self Generated Noise This test is currently not performed by this Lab.

Microphone installed (if requested by customer) = Less Than	N/A	dB	A Weighting
Uncertainty of the microphone installed self generated noise ±	N/A dB		
Microphone replaced with electrical input device -	UR = Under Range indicated		
Weighting	A	C	Z
	12.2 dB UR	15.9 dB UR	22.3 dB UR
Uncertainty of the electrical self generated noise ±	0.12 dB		

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

For the test of the frequency weightings as per paragraph 12. of IEC 61672-3:2006 the actual microphone free field response was used.

The acoustical frequency tests of a frequency weighting as per paragraph 11 of IEC 61672-3:2006 were carried out using an electrostatic actuator.

..... END

Calibrated by: B. Bogdan R 2

Additional Comments The results on this certificate only relate to the items calibrated as identified above.
 None

FIGURE C2 (CTD): ATTENDED MONITOR CALIBRATION CERTIFICATE - NL-52 S/N 00553890



CERTIFICATE OF CALIBRATION



0653

Date of Issue: 21 February 2022

Certificate Number: UCRT22/1272

Calibrated at & Certificate issued by:
ANV Measurement Systems
Beaufort Court
17 Roebuck Way
Milton Keynes MK5 8HL
Telephone 01908 642846 Fax 01908 642814
E-Mail: info@noise-and-vibration.co.uk
Web: www.noise-and-vibration.co.uk

Acoustics Noise and Vibration Ltd trading as ANV Measurement Systems

Page 1 of 2 Pages
Approved Signatory
K. Mistry

Customer Southdowns Environmental Consultants Limited
Suite A3
16 Station Street
Lewes
East Sussex
BN7 2DB

Order No. X_EQUIPMENT/763

Test Procedure Procedure TP 1 Calibration of Sound Calibrators

Description Acoustic Calibrator

Identification	Manufacturer	Instrument	Model	Serial No.
	Rion	Calibrator	NC-74	34625621

The calibrator has been tested as specified in Annex B of IEC 60942:2003. As public evidence was available from a testing organisation (PTB) responsible for approving the results of pattern evaluation tests, to demonstrate that the model of sound calibrator fully conformed to the requirements for pattern evaluation described in Annex A of IEC 60942:2003, the sound calibrator tested is considered to conform to all the class 1 requirements of IEC 60942:2003.

ANV Job No. UKAS22/02131

Date Received 21 February 2022

Date Calibrated 21 February 2022

Previous Certificate	Dated	14 January 2021
	Certificate No.	TCRT21/1020
	Laboratory	ANV Measurement Systems

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

FIGURE C3: ACOUSTIC CALIBRATOR MONITOR CALIBRATION CERTIFICATE – NC-74 S/N 34625621

CERTIFICATE OF CALIBRATION

UKAS Accredited Calibration Laboratory No. 0653

Certificate Number

UCRT22/1272

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Measurements

The sound pressure level generated by the calibrator in its WS2 configuration was measured five times by the Insert Voltage Method using a microphone as detailed below. The mean of the results obtained is shown below. It is corrected to the standard atmospheric pressure of 101.3 kPa (1013 mBar) using original manufacturers information.

Test Microphone	Manufacturer	Type
	Brüel & Kjær	4134

Results

The level of the calibrator output under the conditions outlined above was

93.98 ± 0.10 dB rel 20 µPa

Functional Tests and Observations

The frequency of the sound produced was	1001.86 ± 0.12 Hz
The total distortion was	1.07 ± 0.08 % Distortion

During the measurements environmental conditions were

Temperature	24	to	25 °C
Relative Humidity	34	to	40 %
Barometric Pressure	100.2	to	100.4 kPa

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

The uncertainties refer to the measured values only with no account being taken of the ability of the instrument to maintain its calibration.

A small correction factor may need to be applied to the sound pressure level quoted above if the device is used to calibrate a sound level meter which is fitted with a free-field response microphone. See manufacturers handbook for details.

..... END

Note:

Calibrator adjusted prior to calibration?	NO
Initial Level	N/A dB
Initial Frequency	N/A Hz

Additional Comments The results on this certificate only relate to the items calibrated as identified above.

None

Calibrated by: B. Giles

R 2

FIGURE C3 (CTD): ACOUSTIC CALIBRATOR MONITOR CALIBRATION CERTIFICATE – NC-74 S/N 34625621