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Environmental Management and Monitoring Plan for Infrastructure Works



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ABBREVIATIONS

Abbreviation	Definition
ALARP	As low as reasonably practicable
BMP	Best Management Practices
CCTV	Closed-circuit television
dB(A)	A-weighted decibel
ECM	Earth Control Measure
ECO	Environmental Control Officer
EIA/S	Environmental Impact Assessment/Study
EMMP	Environmental Management and Monitoring Plan
EPH	Environmental Public Health
EPHA	Environmental Public Health Act
EPM	Environmental Protection and Management
EPMA	Environmental Protection and Management Act
GPS	Global Positioning System
HDB	Housing & Development Board
hr	hour
ISA	International Society of Arboriculture
IUCN	International Union for the Conservation of Nature
km	kilometre
Leq	equivalent continuous noise level
LTA	Land Transport Authority
m	meter
m^2	meter square
mg/L	milligram per litre
mins	minutes
NEA	National Environment Agency
NParks	National Parks Board
PRO	Public Relations Officer
PM_{10}	particulate matter with diameter ≤ 10 micrometres
$PM_{2.5}$	particulate matter with diameter ≤ 2.5 micrometres
PME	Powered mobile equipment
PPE	Personal Protective Equipment
ppm	parts per million
PUB	Public Utilities Board
QECP	Qualified Erosion Control Professional
s	seconds
SHD	Singapore Height Datum
SS	Singapore Standards
SSO	Singapore Statutes Online
TAC	TEMBUSU Asia Consulting Pte Ltd

Abbreviation	Definition
TPZ	Tree Protection Zone
TSS	Total Suspended Solid
VCO	Vector Control Operator
VSR	Vibration Sensitive Receptor

1 INTRODUCTION

1.1 Project Background

The Housing & Development Board (HDB) is developing future residential infrastructure in the Yishun Neighbourhood 5 (Miltonia) area. The development area is located within a vegetated area consisting of young secondary forest and abandoned-land forest, with pockets of scrubland and herbaceous vegetation and farmland. Although a large proportion of project site consists of non-native vegetation, the habitats within this forest are important refuges for fauna species and nesting sites for a number of bird species. A construction Environmental Management and Monitoring Plan (EMMP) is required to minimise the impacts on the project area's environment and biodiversity through implementation of appropriate mitigation measures. This EMMP Document covers the infrastructure and earthworks phase of the development. It is recommended that separate EMMP Documents are developed for each phase of the development.

1.2 Summary of Environmental Study

The EIA report provided an updated baseline assessment of the project site, validating the previous impact assessment conducted, for the site based on updated project information, and recommended appropriate mitigation measures to reduce the residual impacts to acceptable levels. Details can be found in Annex 1 The potential impacts on the following environmental aspects have been considered in this assessment:

- Biodiversity
- Noise
- Hydrology & Water Quality
- Ambient Air Quality
- Vibration
- Light
- Waste Management
- Vector Control

Overall, environmental impacts from this development project are expected from activities associated with vegetation clearance and earthworks during the construction phase, which may impact flora and fauna within and around the site, as well as the human receptors around the site. During the operation phase, main impacts are those associated with increase in human presence as well as changes in the natural landscape of the site. These impacts are of negligible to major levels. With the diligent implementation of mitigation measures, these impacts can be reduced to mostly moderate levels and lower, with some unavoidable major impacts such as habitat clearance.

The main findings of each environmental aspect studied has been summarised as follows.

Biodiversity

The project site is located in Yishun and falls within the Khatib Nature Corridor. Current baseline surveys supplemented previous field data from surveys published in 2021. Field

survey methodologies including modified gentry plots for flora, visual fauna transects, camera trapping, netting, and trapping of aquatic fauna, and acoustic bat recording.

Floristically, a total of 229 species were observed. The most prevalent habitat type consisted of abandoned kampung vegetation, followed by scrubland habitat. Some patches, including the proposed nature park area, also included swampy herbaceous areas, which provided habitat for specialized freshwater species. There were some species of conservation value, including the elephant fern (*Angiopteris evecta*), long-leaved beautyberry (*Callicarpa longifolia*), and sea-shore ardisia (*Ardisia elliptica*). Additionally, Albizia (*Falcataria falcata*) trees within the project site, while not native, provided suitable habitat for animals, particularly nesting raptors and other birds. In terms of fauna, the main species of conservation value were birds, given lack of direct connectivity between this forested site and other forested sites around Singapore. 224 flora species and 179 fauna species (birds, mammals, reptiles, amphibians, butterflies, odonates, freshwater fish, and molluscs) within the project study area. There were several threatened species across taxonomic groups, including the straw-headed Bulbul (*Pycnonotus zeylanicus*), the buffy fish owl (*Ketupa ketupu*), and the rare apple snail (*Pila scutata*). The previous surveys also found the red-tailed pipesnake (*Cylindrophis ruffus*), a rare snake species in Singapore. Many of these threatened species, including the red-tailed pipesnake, depend on specific habitat requirements for their continued survival. The forest provides suitable condition for birds to nest, such as the locally Endangered changeable hawk-eagle (*Nisaetus cirrhatus*).

Impacts from project activities may have undesirable impacts to biodiversity, especially to species of conservation value found within and around the project site. With the implementation of appropriate mitigation measures, including the erection of hoarding around the site, salvaging of plants and translocation of fauna, and measures to avoid human-wildlife conflict, it is expected that any such impacts will be reduced to mostly moderate levels and below, with a few unavoidable major impacts (such as habitat clearance).

Hydrology & Water Quality

The project site is located within the Lower Seletar Reservoir Catchment Area. There is one main stream flowing across the project site. In general, the surface water quality of these stream complied with the applicable standards except for the Dissolved Oxygen, Total Suspended Solids and Ammoniacal Nitrogen. Possible impacts from the construction phase includes disturbances to local hydrological pattern due to the construction of the proposed new culvert drain and impact to water quality due to sediment runoff and trade effluent discharge. Recommended mitigation measures – such as properly implementing Earth Control Measures (ECMs) and managing trade effluent/sewage discharge – will help to reduce the impact on water quality of project area.

HDB has catered for the stream to be retained as it is within the core proposed nature park area. The main source of flow within the stream is from the upstream area from the overflow from roads. By ensuring that upcoming box culvert drainage on this site does not alter the flow and water quality of the stream during the construction of the project, the impacts on the marshland are likely to be minimal.

Noise

As the project site is vegetated, it is inhabited by various fauna species which may be sensitive to noise. There are sensitive human receptors situated within the project study area. A seven-day continuous (24x7) noise monitoring was carried out at four locations, which established that baseline noise levels generally complied with Singapore's noise regulations. It is anticipated that the main noise sources during the construction phase will be associated with vehicle movements, high-impact stationary, and mobile equipment. The overall impact of noise on the sensitive receptors has been assessed as moderate and can be further reduced to minor and below if the recommended noise mitigation measures were implemented.

Ambient Air Quality

A seven-day continuous (24x7) air monitoring was carried out at three locations to establish baseline air quality levels. The baseline air quality levels are within Singapore's air quality targets and project study area enjoys good air quality. There are sensitive human receptors within the project study area. The air quality will potentially be affected by activities associated with construction of treatment units, especially from an increase in airborne particulates and heavy-vehicle exhaust emissions. Mitigation measures are recommended to reduce the direct impact on local air quality to minor levels and below.

Vibration

Currently there are no major sources of vibration within project study area. Main vibration sources include mainly vehicular traffic along Yishun Avenue 1. Baseline monitoring was carried out at four locations to establish baseline vibration levels. There are sensitive receptors located adjacent to project study area, including animals in forested areas and humans in the nearby premises. The overall impact of vibration has been assessed as moderate and can be further reduced to minor through the recommended mitigation measures including the use of equipment or methods which generate lower vibration levels.

Light

Impacts of light pollution during the construction period may take place, but such impacts are expected to be minor. Additionally, there is moderate baseline light levels from the streetlights surrounding the project site. Nonetheless, mitigation measures such as the appropriate positioning of artificial lights during the construction phase and appropriate design of lights for operational phase are recommended to further reduce the impacts of light pollution.

Waste Management

It is anticipated that the main sources of waste during construction phase will be from cut vegetation, excavated material, general construction waste, personal waste and/or hazardous waste. During the operation stage of the project, waste generated is likely to be household waste. With the implementation of the mitigation measures proposed – such as implementing a waste management plan, reusing timber wastes for wood industry, properly disposing the waste through licensed collectors, including animal-proof binds, and educational measures – any negative impact is expected to be reduced to an acceptable level.

Vector Control

The primary impact of the construction phase of the project is the potential increase in the immediate vector population. Secondary to this, an increase in the number of vectors has the potential to increase the likelihood of vector-borne diseases affecting humans. Key mitigation measures include source reduction and effective drainage through implementation of vector control plan. With its implementation, it is expected that these impacts can be reduced to an insignificant level. Considering the sensitive nature of forested area, fogging is not recommended to be carried out as part of vector control measures.

Table 1.1 summarises the proposed mitigation measures from the EIA, and Table 1.2 summarises the impact pre- and post-mitigation.

Table 1.1. Summary of key mitigation measures to be implemented

Environmental aspect	Key mitigation measures
Biodiversity	• Hoard up entire work site. Permanent hoarding is to be embedded along the perimeter of the working boundaries. • Avoid heavy construction activities at night (i.e., limit heavy work activities to 8 am – 6 pm) • Ensure project layout avoids targeted sensitive receptors and habitats, including the proposed nature park • Identify plants of high conservation significance to be transplanted • Establish Tree Protection Zones (TPZ) for trees to be retained • As far as practicable, avoid commencement of tree felling during the peak bird nesting period (February to July) • Visually inspect trees and holes for nesting birds and species of conservation value prior to felling • Replant new planting verges with native plant species • Conduct phased /directional clearance of vegetation in the direction towards the proposed nature park area • Conduct daily checks of ECM blankets and pits to rescue any entrapped fauna • Implement proper ECMs to prevent impact to adjacent habitats • Utilise inert construction material • Ensure equipment, vehicles, and footwear are clean prior to commencing works • Establish designated areas for food and waste disposal • During the construction phase, conduct information sessions for workers on what to do upon encountering wildlife • Conduct regular monitoring of trees and vegetation health during construction phase within project site • Conduct regular water quality monitoring of stream habitat during construction phase

Hydrology and Surface Water Quality	<u>Earth Control Measures (ECM)</u>
	• An appropriate ECM plan is to be prepared and endorsed by a Qualified Erosion Control Professional (QECP) before the commencement of construction works in all Areas.
	• The ECM plan shall include but not be limited to:
	  ◦ ECM tanks utilised for the project must have surplus capacities to minimise overflow and silty discharge.
	  ◦ Proper sediment control measures designed to capture and retain silt to include perimeter cut-off drains, perimeter silt fence, silt traps and silt treatment systems.
	  ◦ QECP to review ECM plan implementation regularly during the construction period to ensure that the measures put in place remain effective.

Environmental aspect	Key mitigation measures
	• Regular monitoring of ECM treatment plant performance is to be carried out by the Environmental Control Officer (ECO). • Regular maintenance of ECM is to be carried out. • The Contractor shall access weather forecast from the NEA website to take ECM actions before rain events. • After rain events, earth control measures in the Area are to be inspected and maintained over the course of construction. • To ensure that site discharges are treated to comply with respective allowable limits (e.g., 50 mg/L of TSS for discharges processed through ECM and 30 mg/L of TSS for trade effluent) before discharging into a public drain. • Exposed earth areas shall be reduced by phasing earth works and effective scheduling of construction activities to minimise bare surfaces, planning of site layout and effective site drainage systems to facilitate flow. Measures may include the use of paving, biodegradable erosion control blankets, and canvas covers. • ECM should only be removed after completion of the works. The QECP should authorize removal of the ECM. <u>Fuel & Chemical Spillage and Waste Disposal Management</u> • All slurry preparation activities are to be conducted within a designated area that has adequate containment measures. • To ensure that slurry water, including bentonite slurry, is contained within the working area and does not enter any watercourses or surface water drains. • Storage tanks for slurry and supply lines should be located as far as possible from surface water drains or watercourses. • Storage silos and micropile storage tanks for slurry should have secondary containment. • Bentonite use should be monitored so that excessive use could be identified to prevent bentonite materials from escaping into the ground and potentially polluting groundwater • Waste bins to be provided within the construction work area for proper disposal of construction debris and rubbish. Foreign material should not be illegally disposed at the water bodies but removed from site by a licensed waste collector. • All liquids should be properly labelled and stored in appropriate containers at safe location on site (i.e., under a shelter with kerb surrounding). Personnel handling these liquids should also be suitably trained. • Vehicle fuelling and major maintenance to be minimised within the project area. • Appropriate concrete wash bays should be provided and should not be performed in or near any water body. • Water used for dust control should not be allowed to cause erosion within the work area or to run offsite. • Excess loose soil and rock to be contained prior to the commencement of works. • Regular water quality monitoring is to be conducted according to the proposed Environmental Monitoring Plan during construction and post-construction stage. • Foreign material should not be illegally disposed at the water bodies but removed from site by a licensed waste collector. <u>Trade Effluent Management</u> • Contractor to provide storage tanks of adequate size and sufficient numbers to temporarily store trade effluent before treatment and disposal. • Contractor to provide sampling point and inspection for collection of trade effluent to be tested for parameters stipulated in the Regulations, depending on the discharge point (i.e., sewer, watercourse, controlled watercourse). • Regular water quality monitoring is to be conducted according to the proposed Environmental Monitoring Plan during construction and post-construction stage.

Environmental aspect	Key mitigation measures
	• Contractor should install and maintain trade effluent treatment facilities (e.g., slurry treatment plant, grease trap and suspended solid settling tank) as per NEA's requirements. • Area where trade effluent is being transported out to be kerbed to minimise spills <u>Oil & Fuel Spillage and Waste Disposal</u> • To ensure that bentonite is contrained within the working area and does not enter any watercourses or surface water drains • Storage tanks for slurry and supply lines should be located as far as possible from surface water drains or watercourse • Storage silos and micropile storage tanks should have secondary containment • Areas where bentonite is mixed are to be surrounded with a small boundary wall or contained within a bund. This action will help to control the slurry produced and prevent it from entering surface water drains or watercourses. • Bentonite use should be monitored so that excessive use could be identified to prevent bentonite materials from escaping into the ground and potentially polluting groundwater • Waste bins to be provided within the construction work area for proper disposal of construction debris and rubbish. Foreign material should not be illegally disposed at the water bodies but removed from site by a licensed waste collector. • All liquids should be properly labelled and stored in appropriate containers at safe location on site (i.e., under a shelter with kerb surrounding). Personnel handling these liquids should also be suitably trained. • Vehicle fuelling and major maintenance to be minimised within the project area. • Appropriate concrete wash bays should be provided and should not be performed in or near any water body. • Water used for dust control should not be allowed to cause erosion within the work area or to run offsite. • Excess loose soil and rock to be contained prior to the commencement of the works. • Emergency spill kits should be provided by contractor on site in the event of any chemical spillages. Emergency response team should also be trained in the use of these spill kits.
Noise	• For soil investigation works, to use acoustic enclosures on rig engines and install a silencer at the exhaust pipe of the engines throughout the drilling operations and to erect portable hoarding around drilling rigs. • Noise barrier (STC 20) of at least 4m height be installed around proposed park area (excluding the section along Yishun Avenue 1) • Heavy construction works within project area are to be limited to daylight hours (8 am – 6 pm), including demobilisation. Should there be any nightworks, a Noise Management Plan (NMP) should be developed and submitted to NParks for approval. • For piling work, to consider the use of quitter piling methods. • Use of silent piler for sheet piling work where possible. • To consider erection of temporary acoustic barriers around piling equipment. To consider use of a temporary barrier which will allow for relocation as the piling activity moves around site. • Use hydraulic and electric tools in place of pneumatic equipment such as concrete breakers where possible. • Acoustic enclosures to be considered for where necessary such as compressors, generators, drilling tools etc. • Means of improving the sound reduction for any exhaust systems in bulldozers, dump trucks and excavators should be considered. • All noise and acoustic barriers should be able to achieve at least 10dB(A) noise reduction from source noise levels. • Construction personnel to be trained in noise-reduction behaviours such as reducing the drop height of materials. Daily toolbox briefings should include reminders on the need to implement noise-reduction behaviours.

Environmental aspect	Key mitigation measures
	• All construction personnel should be educated about sensitive ecological nature of work areas before commencing the work • To communicate with sensitive receptors about the proposed construction works including the proposed working hours, and the expected level and duration of noise. • Where alternatives are available, only equipment and vehicles that emit lower noise levels are to be used. • Care shall be taken when loading or unloading vehicles, dismantling scaffolding or moving materials to reduce impact noise. • Intermittently used vehicles and machinery are to be shut down between work periods or be throttled down to a minimum noise level emission. • Where possible, vehicles and machinery known to emit high levels of noise in one direction are to be orientated away from sensitive receptors. • Only well-maintained machineries should be operated on-site and should be serviced regularly during construction. • Conduct noise level monitoring throughout all phases to ensure that the construction noise levels remain within acceptable limits. • Maintain a complaints procedure to log and track response to complaints received from residents. • Personnel are to wear appropriate Personal Protective Equipment (PPE) all the time while on the construction site.
Ambient Air Quality	<u>Dust Control</u> • Use of hoarding at project boundary within work areas to minimise dust generation by attenuating wind forces. • Use hard surfaced access routes • To avoid stockpiles of soil and dusty materials at project site within work areas as far as possible. • If unavoidable, stockpiles of soil should be located away as far as possible from sensitive receptors (i.e., adjacent flora and fauna as well as residential areas located along Yishun Ave 1 and Miltonia Close). • Provide additional dust screen at project boundary near sensitive receptors (i.e., flora and fauna as well as residential areas located along Yishun Ave 1 and Miltonia Close). • Any soil or stockpiles of dusty material should be properly stored, covered entirely with impervious sheeting or dampened with water to maintain entire surface wet by contractor. • Soil stockpiles shall not be higher than 0.6 times the nearest hoarding height. • Excavations should be backfilled or reinstated as soon as practicable following completion of the construction work. • Material transport of inert solids (excavated materials) should be enclosed using impervious sheeting, minimising the visual dust impacts as well. • Use of regular watering to reduce dust emissions from exposed site surfaces, particularly during dry weather on open areas. • Open burning of construction and other wastes are not allowed at the worksite as this is an offence under the Environmental Pollution Control regulation. • Personal protective equipment such as mask shall be worn during the severe air pollution and/or dust exposure periods by construction personnel. • Avoid soil disturbing works during dry and/or windy conditions. • Stabilize/cover all stockpiled materials for longer than one month by turfing, erosion blanketing or other method. • Vehicle on-site speed restrictions should be imposed to prevent dust being stirred up by vehicle movements. <u>Other mitigation measures</u> • Provide vehicle washing facilities before the construction site exit. • Pave the area between construction site exit and the vehicle washing facilities. • Maintain road surface in the construction site wet (e.g., using sprinkler). • Proper maintenance of construction vehicles and fuel burning equipment. • Intermittently used vehicles and machinery are to be shut down between work periods to minimum exhaust emission.

Environmental aspect	Key mitigation measures
Ground-borne Vibration	• Construction works involving the use of heavy equipment should be restricted to daytime only (i.e., 8 am – 6 pm). • Contractors shall be responsible to comply all applicable regulatory and authority requirements and recommendation in this EIA report on ground-borne vibration. • Vibrating equipment (e.g., pipe jacking unit) to be placed on isolators such as spring coils. • Use of equipment or method which generate lower vibration levels, where possible. Examples: use of silent piler instead of vibro hammer, use only low-vibration mode for vibratory compactors. • The drilling rig engine to be switched off when not in use to reduce vibration. • Route heavily loaded trucks away from the VSRs as far away as possible. • To plan and phase excavation, earthmoving, and ground pilling activities in staggered manner where possible to minimize cumulative impact. • Control speed of vehicle movement at the worksite to 10 km/hour. • Notify nearby VSRs (e.g., residential buildings) in advance of the construction activities, particularly during pipe jacking works to allay potential concerns. • Utilize a vibratory compactor that can adjust the impulse energy and frequency, compact soil with static method (no vibrations). • Keep access roads within project work site in good condition to provide a smooth traveling surface.
Light	• Limit heavy construction works to daylight hours • Turn off all unnecessary lights outside working hours • Hoarding of at least 4m height be installed around proposed park area (excluding the section along Yishun Avenue 1) • Implement an NParks-approved Lighting Management Plan • Minimum number/ intensity of lights needed for safety and security • Any temporary lighting for nighttime should be fully shielded, facing downwards, and directed away from forested areas
Waste Management	• The contractor should be contractually obligated to develop a solid waste management plan to manage the collection, recycling and ultimate disposal of all generated wastes in an environmentally responsible manner. • Timber/wood from cut vegetation can be recovered for use in the wood industry as far as possible. • Surplus excavated material and inert wastes (soil, broken rock etc.) shall be reused within project site as backfill, landscaping, erosion control and restoration features wherever practicable. • Scrap metals (e.g., welding rods, end caps, off-cuts etc.) can be recovered and sent for recycling as scrap. • Other inert general waste will be collected and disposed through licensed waste collector. • General refuse generated on-site must be stored in enclosed bins separate from construction and hazardous wastes. A licensed general waste collector shall be employed by the Contractor to remove general refuse, on a daily or every second day basis to minimise odour, pest and litter impacts. • Chemical toilet facilities/ septic tank system with collection of accumulated waste for off-site disposal by a licensed general waste collector. • All non-hazardous wastes that are generated must be handled and disposed of in accordance with the requirements of the EPHA and the EPH (General Waste Collection) Regulations. • Any hazardous wastes that are generated must be handled and disposed of in accordance with the requirements of the EPHA and the EPH (Toxic Industrial Wastes) Regulations. • Disposal of hazardous waste must be through a licensed waste collector for hazardous waste.
Vector Control	Increase in Number of Mosquitoes

Environmental aspect	Key mitigation measures
	• Before construction commences, the construction contractor shall engage a vector control operator registered with NEA to prepare and implement vector management plan. • Before construction starts, a Vector Management Plan shall be submitted to NEA. • The construction contractor shall form an in-house vector control team to check construction sites for breeding of mosquitoes. • During the daily checks, particular attention shall be made to discarded receptacles and building wastes; building materials, canvas sheets, equipment and machinery; puddles on the ground levels; water storage drums, tanks and containers; bulk storage containers; trenches; lift wells; drains and channels temporarily constructed to drain off water; air handling units and air conditioners; and, flat roofs of temporary buildings. • Empty receptacles, pails, basins and other containers shall be kept indoors. • Construction worksite shall be kept free of litter; construction wastes shall be disposed promptly into bulk waste containers and the containers shall be emptied daily. • Building materials shall be stored under shelter as far as practicable; materials shall be stored at least 60 cm above the ground to allow water collected below to be treated by the vector control operator. • Air-handling units shall be stored under shelter or, the overflow pipe shall be uncapped to allow rainwater to drain out. • Stagnant water shall be pumped from the works areas and ground depressions shall be covered with earth. • Anti-mosquito oil and insecticides including BTI shall be applied into stagnant water at least once a week. The application should be repeated after rain as the oil and insecticides would be washed away by the rain. • Any significant increase in numbers of vectors shall be reported to the NEA and investigated. • Thermal fogging shall not be carried out due to location of project site adjacent to a forested area. <u>Increase in Number of Other Vectors</u> • Rats, flies and cockroaches shall also be targeted for active preventative measures to reduce their breeding habitats (waste disposal areas and wet areas). General cleanliness and waste disposal protocols will control these vector populations and worker hygiene can help reduce insect attraction. The following mitigation shall be implemented: • Worksite shall be kept litter-free and refuse bins shall always be covered tightly. • Construction workers' food provisions shall be stored in rodent-proof rooms or cabinets. • All food items shall be adequately covered and stored at least 60 cm above the ground. • The in-house vector control team and the vector control operator should check for rodent burrows every week. Active burrows should be treated with rodenticides for three consecutive days or until the rats are all dead (i.e., no more dead rats found), and then sealed with compacted earth. • Sanitary waste/domestic waste should be removed from the site in accordance with Singapore's legislation promptly. • Any significant increase in numbers of vectors shall be reported to the NEA and investigated. <u>Increase in the Incidence of Dengue-Fever and Other Vector-related diseases</u> In addition to the mitigation measures for control of mosquito numbers, the following measures are proposed: • During construction, vector control shall be undertaken as per the NEA Guidebook for "Scope of Works for Mosquito Control". • If required, assistance shall be provided to the authorities to investigate outbreaks of vector-borne diseases at the construction site. • Weekly monitoring of the NEA's dengue cluster map shall be undertaken to determine if the workers at construction areas are at risk.

Environmental aspect	Key mitigation measures
	• With the implementation of the mitigation measures proposed, it is expected that the impacts can be reduced along with the potential for vector borne diseases.

Table 1.2. Summary of residual impacts

Environmental aspect	Impacts before mitigation	Impacts after mitigation
Biodiversity	Major Negative to Negligible	Major Negative to Negligible
Hydrology and Surface Water Quality	Moderate Negative to Minor Negative	Minor Negative
Noise	Moderate Negative	Moderate Negative to Minor Negative
Ambient Air Quality	Major Negative to Moderate Negative	Minor Negative
Ground-borne Vibration	Moderate Negative to Minor Negative	Minor Negative
Light	Minor Negative	Minor Negative
Waste Management	Moderate Negative to Negligible	Minor Negative to Negligible
Vector Control	Moderate Negative to Minor Negative	Minor Negative to Negligible

1.3 Objective of Construction EMMP

The Environmental Management and Monitoring Plan (EMMP) is a systematic approach to mitigate environmental impacts and monitor the implementation of these mitigation measures to ensure that proposed project being implemented within sensitive area will not cause any significant adverse impact to the site's environment and its surrounding. It is also a useful tool to assess whether the mitigation measures taken are effective to reduce or mitigate potential impacts caused by this project to minimal and acceptable levels during the construction phase.

1.4 General Scope of the Construction EMMP

Before the start of construction works, the Client (HDB) is required to establish a detailed construction EMMP (EMMP) for each of the construction phases. The EMMP is to be adhered to throughout the construction duration. This document presents the EMMP for the earthworks and infrastructure works phase of the development, and ensures that environmental protection measures fulfil regulatory requirements.

The EMMP includes identified mitigation measures from the approved EIA Report and considers the methodology of construction works prior to their commencement. EMMP is prepared in consultation with an environmental and ecological specialist to consider and implement applicable mitigation measures recommended in the EIA Report. Roles and responsibilities of all stakeholders (e.g., Environment Control Officer / EMMP In-charge, EMMP Consultant, EMMP Specialist, Vector Control Operator, QECP, PRO) during the EMMP implementation during the construction phase are also established.

Environmental monitoring will comprise of compliance inspections for the prescribed mitigation measures and collection of environmental quality data. The environmental monitoring activities will ensure that the project does not cause any significant long-term environmental impacts. An environmental monitoring checklist is developed as part of EMMP to monitor and record site implementation. An Environmental Performance Report (EPR) with all the monitoring results (compliance checks and environmental quality data) and list of actions taken to implement the EMMP will be submitted monthly to Authorities throughout the construction phase.

1.5 Document Structure

The EMMP is structured as follows:

- Chapter 1 introduces the purpose and general scope of EMMP.
- Chapter 2 provides the project background and site utilisation plan.
- Chapter 3 outlines applicable legislation, regulations, and guidelines to EMMP.
- Chapter 4 provides the EMMP management framework.
- Chapter 5 outlines Biodiversity Management Plan, covering Wildlife Management Plan and Wildlife Rescue Protocol.
- Chapter 6 presents Environmental Management Plans for various environmental aspects.
- Chapter 7 discusses Environmental Monitoring Plan
- Chapter 8 presents the EMMP reporting requirements.

2 PROJECT OVERVIEW

2.1 Project Location

The project site is located in the north of Singapore, near Orchid Country Club and Lower Seletar Reservoir. It is bounded by Yishun Avenue 1 to the north and northwest, Skies Miltonia and The Miltonia Residences condominium complexes to the southwest, and Orchid Country Club golf courses to the east.

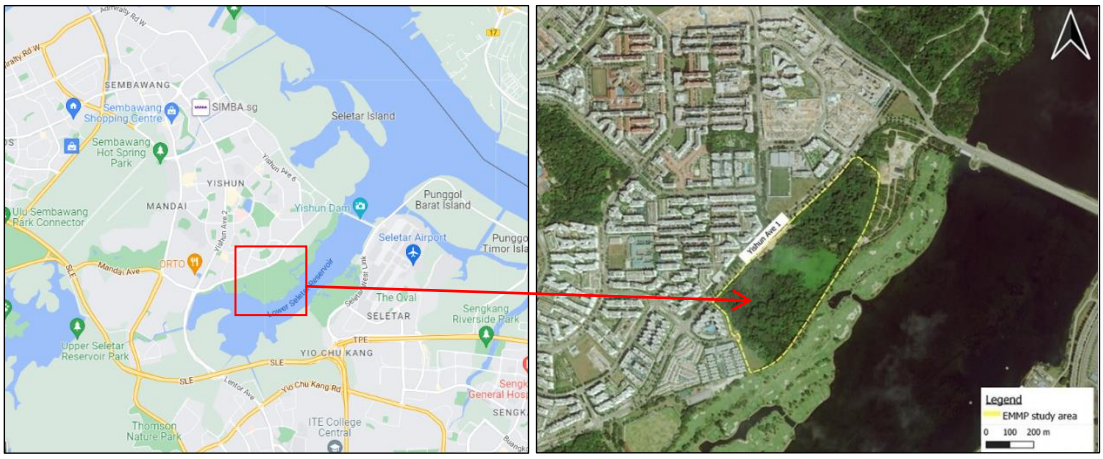


Figure 2.1. Project location plan

2.2 Project Scope and Implementation Schedule

The site of the Projects is located at Yishun Neighbourhood 5 (Miltonia), adjacent to Yishun Avenue 1. The project area coverage is approximately 27 hectares. At present, the Project site features freshwater stream and forested area. As the existing terrain at Yishun Miltonia is vegetated and undulating, the proposed public housing development would entail civil engineering works such as site clearance (removal of existing trees and vegetation), earthworks cutting/filling within site to achieve desirable platform levels required for the proposed development; construction of roads, construction of drains, sewer works, building works, utilities/services laying and other related works. Earthworks and infrastructure works are planned to be completed in 24 months.

2.3 Construction Approach

The project site is shown in
Figure 2.2 and Figure 2.3 described below. **Appendix A** provides the overall site layout of the project area.

<u>Earthworks and Civil Works</u>

The phased construction plan of the earthworks and civil works stage of the project will be conducted in 2 main phases, with Phase 2 further divided spatially into 5 sub-areas (Figure 2.2). Works from Phase 2 onwards will be carried out concurrently. All earthwork activities are expected to be completed within 24 months from the project's date of commencement. The implementation schedule is provided in Table 2.1.

Table 2.1 Implementation schedule of project Earthwork Plan

Phase	Description of Works	Completion Time from the Date of Commencement of Works
1	Earthworks (Parcel)	Within 15 months
2A	Earthworks (Parcel)	Within 24 months
2B	Drainage	Within 24 months
2C	Box Culvert	Within 24 months
2D	3-Cell Box Culvert	Within 24 months
2E	Retaining Wall	Within 24 months
3	Earthworks site clearance. Cut & Fill works	Within 24 months

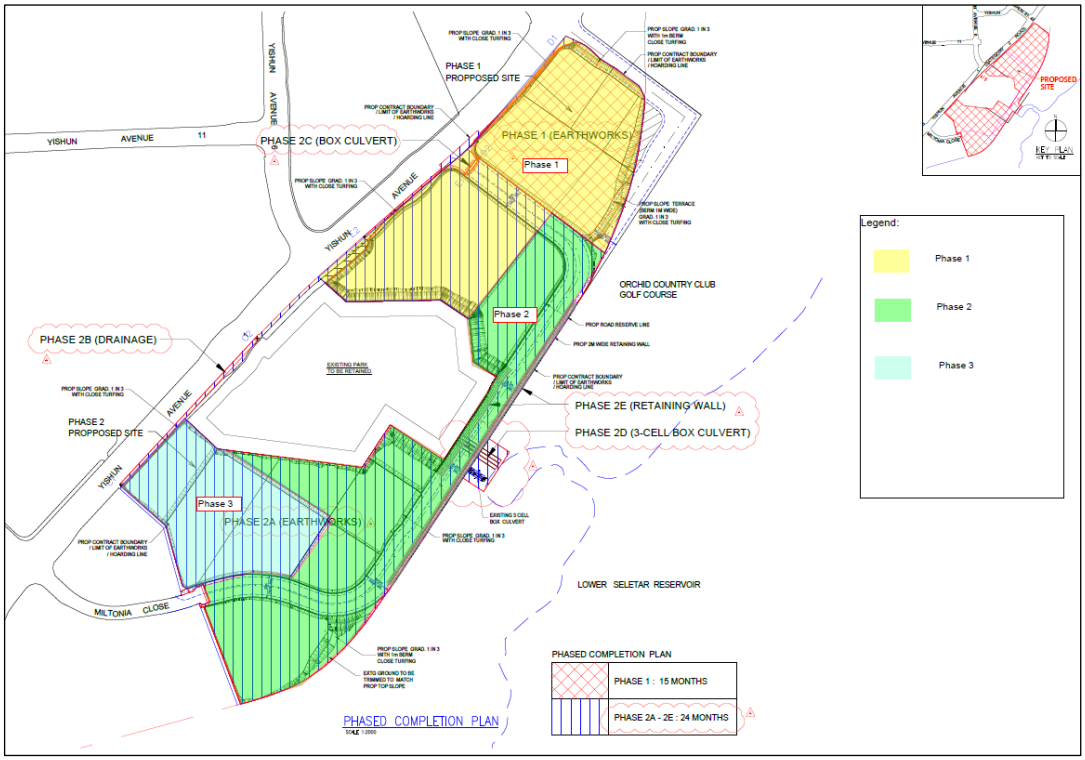


Figure 2.2 Phased construction areas in the project site

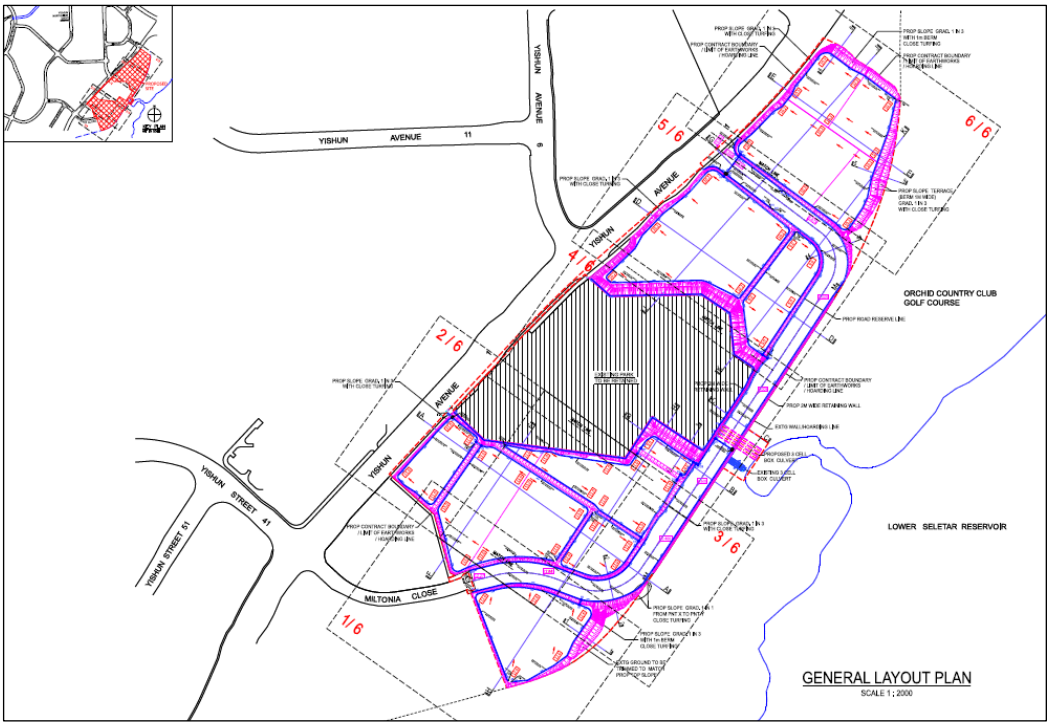


Figure 2.3 General Layout Plan

2.4 Construction Activities Associated with Proposed Project

The following construction activities are expected to take place during the earthworks phase of the proposed housing project:

Site Clearance and Earthworks

Tree felling will be conducted by the means of chainsaw, excavator, and lorry operations. As the terrain is uneven, the proposed platform levels will be designed to minimise cut-and-fill works as well as the number of earth retaining structures required. This approach will not only ease construction but also minimise impact on the natural environment, particularly sections of the future Nature Park close to the land clearance area. The vegetation clearance plan will be submitted to and approved by NParks prior to removal of shrubs and trees in the project site.

Temporary Construction Access Road

Two site access gates will be created along Yishun Avenue 1. An access road would connect one of the gates to Miltonia Close, to allow easier transport of construction resources into the works areas and thus contribute to timely completion of the construction activities. The location of the access road is aligned with the future vehicular road crossing the project area.

Construction of Drains and Other Supporting Features

Trial trenches and services detections will be first conducted along and around designated drain alignments to determine all services that may affect critical works. Excavation will then proceed in accordance with the approved construction drawings, to be carried out in stages to minimise disturbance to the surrounding ground. A proposed

3-cell box culvert will also be built at the boundary facing Orchid Country Club to discharge stormwater.

Construction of Retaining Wall

A retaining wall will be erected on the boundary of the development, on the side of Orchid Country Club. The erection of this wall may entail the usage of excavation works and installation of sheet piles.

2.5 Site Utilisation Plan

An indicative site utilisation plan developed by HDB for project worksite is presented below in Figure 2.4. **Appendix B** provides the site utilisation plan of the project area.

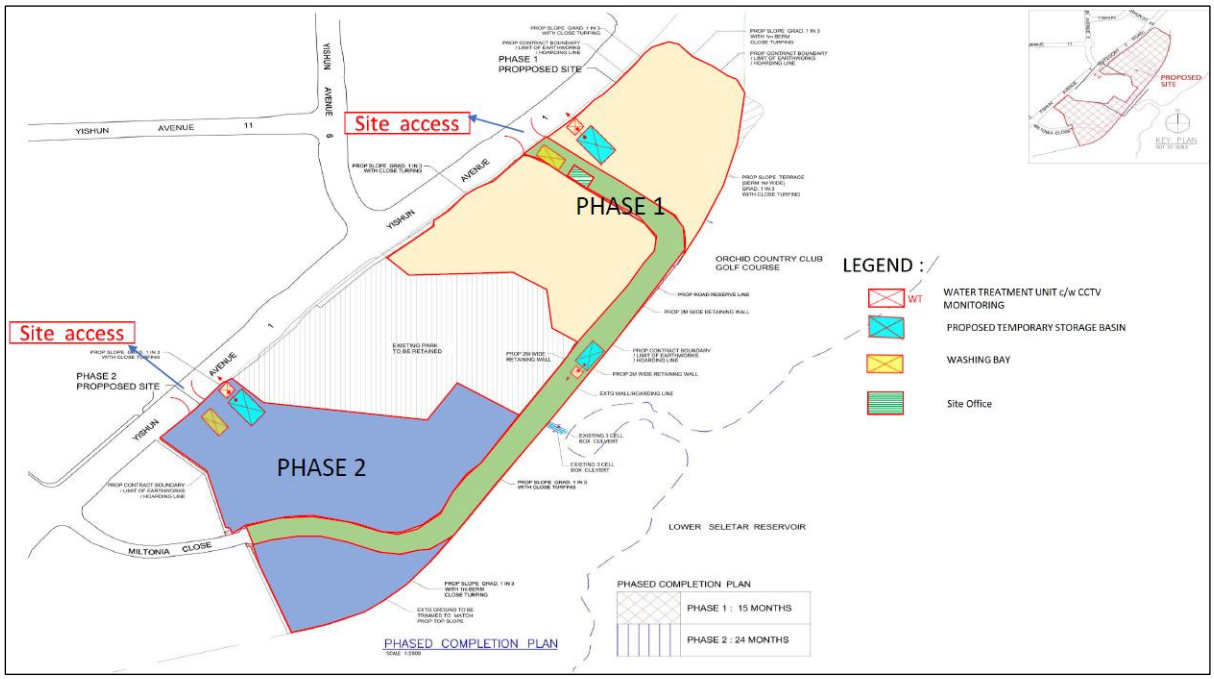


Figure 2.4 Site Utilisation Plan

The components of site utilization plan are described as follows:

- Proposed temporary storage basin – three sets of water treatment units that comes with CCTV monitoring to be installed per approved ECM Plan endorsed by QECP
- Washing Bay – to be installed at each Site Gate.
- Site office
- Boundary Hoarding – A hoarding to be installed along the project boundary line to demarcate the project worksite and to control the access.
- Access Roads and Gates – A access road running through whole worksite to provide construction access.
- Site office

3 APPLICABLE LEGISLATIONS AND GUIDELINES

The table below lists relevant legislations, regulations, and guidelines which govern the various environmental parameters within Singapore, which are to be complied during the implementation of EMMP.

Table 3.1. List of applicable Singapore legislations, regulations, and guidelines

Parameter	Legislation, Regulations and Guidelines
General	• Environmental Protection and Management Act, 1999 • Environmental Public Health Act, rev. 2020 • Singapore Code of Practice on Pollution Control (SS593: 2013)
Biodiversity	• The Wildlife Act 2020 • The Parks and Trees Act 2005 • The Parks & Trees Regulations 2006 • The Parks & Trees Preservation Order 1998 • Parks & Trees (Composition of Offences Regulations) 2006 • Parks & Trees (Planning Areas) Notifications 2006 • Parks & Trees (Heritage Road Green Buffers) Order 2006 • Singapore Red Data Book, Second Edition, 2008 • Singapore Red Data Book, Third Edition (online), 2021 • IUCN Red List of Threatened Species to assess species vulnerability (2009) • CITES (the Convention on International Trade in Endangered Species of Wild Fauna and Flora, also known as the Washington Convention) 1983
Noise	• Environmental Protection and Management Act 1999, Part VIII Noise Control • Environmental Protection and Management (Control of Noise at Construction Sites) Regulations 2008 • Environmental Protection and Management (Boundary Noise Limits for Factory Premises) Regulations 2008 • NEA Code of Practice on Pollution Control SS 593 (2013) • Code of Practice for Noise Control on Construction and Demolition Sites SS602 (2014)
Surface Water Quality	• Sewerage and Drainage Act 2001 • Sewerage and Drainage (Surface Water Drainage) Regulations 2007 • Sewerage and Drainage (Trade Effluent) Regulations revised 2007 • Environmental Protection and Management Act 2002, Part V on water pollution • Environmental Protection and Management Act (Trade Effluent) Regulations 2008 • PUB Code of Practice on Surface Water Drainage (2018) • PUB Handbook on Managing Urban Runoff (2013) • NEA Code of Practice on Pollution Control SS 593 (2013) • PUB Guidebook on Erosion and Sediment Control at Construction Sites (2018)
Ambient Air Quality	• Environmental Protection and Management Act 2002, Part IV on Air Pollution Control • Environmental Protection and Management (Vehicle Emissions) Regulations 2008 • Environmental Protection and Management (Prohibition on Use of Open Fires) Order 2008

Parameter	Legislation, Regulations and Guidelines
	• Environmental Protection and Management (Air Impurities) Regulations 2008 • NEA Singapore Ambient Air Quality Targets (Long Term Targets) • NEA Code of Practice on Pollution Control SS 593 (2013)
Waste Management	• Environmental Protection and Management Act 2002, Part VII on Hazardous Substances • Environmental Protection and Management (Hazardous Substances) Regulations 2008 • Environmental Public Health (General Waste Collection) Regulations 2000 • Environmental Public Health (Toxic Industrial Waste) Regulations 2000 • NEA Code of Practice on Pollution Control SS 593 (2013)
Vector Control	• NEA Guidelines on “Rainwater Collection System and Mosquito Prevention • Control of Vectors and Pesticides Act 2002 • Environmental Public Health Act (EPHA) 2002

4 CONSTRUCTION ENVIRONMENTAL MANAGEMENT & MONITORING FRAMEWORK

4.1 Objectives

The objectives of this EMMP are to:

- Ensure compliance with legislation and guidelines.
- Verify environmental performance through information on impacts as they occur.
- Provide feedback for continual improvement in environmental performance.
- Monitor actual impacts of the Project activities on sensitive receptors so that impacts not anticipated in the EIA or long-term impacts which exceed the levels anticipated in the EIA can be identified and appropriate mitigation measures can be adopted in time.

4.2 Organization Chart and Roles & Responsibilities

The EMMP organization chart is as under.

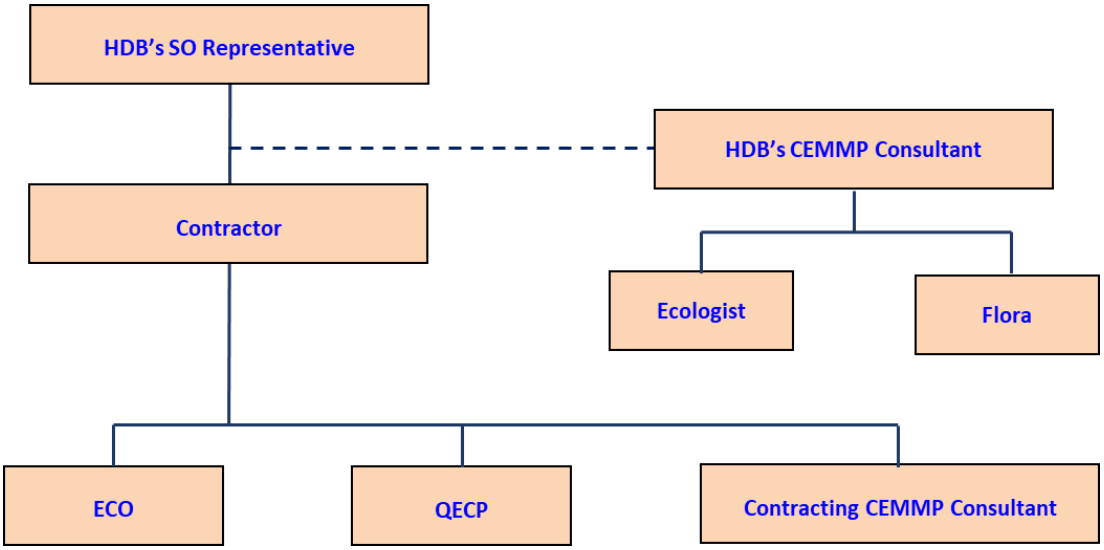


Figure 4.1. EMMP Organization Chart

The roles and responsibilities of key stakeholders are as follows.

4.2.1 HDB's Superintending Officer's (SO) Team

- ***HDB's SO Representative***
  - To be the point of contact for HDB.
  - To oversee implementation of a EMMP for the duration of construction phase.
  - To liaise with HDB in mobilising necessary resourced to fulfil EMMP requirements as and when needed.
  - To liaise with authorities for EMMP consultation as and when required.

4.2.2 HDB's EMMP Consultant Team

- ***EMMP Specialist (Flora) / Arborist***
  - To support Contractor in implementing environmental mitigation measures for flora aspect as per EMMP.
  - To provide guidance and supervision, to ensure that all the works related to trees are conducted in a safe and professional manner.
  - To conduct monthly site visit for flora monitoring to monitor the implementation of flora-related mitigation measures.
  - To provide checks that Tree Protection Zone (TPZ) is not being encroached.
  - To assist in reporting requirements of EMMP during construction phase.

- ***EMMP Specialist (Fauna) / Ecologist***
  - To support Contractor in implementation of environmental mitigation measures for fauna aspect as per EMMP.
  - To conduct monthly site inspection to assess implementation of mitigation measures.
  - To train and guide the contractor regarding wildlife management.
  - To determine if fauna habitats have been degraded beyond authorised working area and to recommend contingency plans if mitigating measures are ineffective.
  - To assist in reporting requirements of EMMP during construction phase.

4.2.3 Contractor's Team

- ***Contractor's Project Manager***
  - To implement a EMMP for the duration of construction phase.
  - To ensure all necessary EMMP measures are adhered to.
  - To ensure daily compliance checks on all environmental aspects as per
  - EMMP requirements are met relevant legislation, guidelines and best practice.
  - To liaise with authorities for EMMP consultation as and when required.

- ***Contractor's EMMP In-charge / Environmental Control Officer***
  - To act as EMMP in-charge and lead the implementation and reporting requirements of EMMP during construction phase.
  - To conduct all necessary EMMP monitoring and fulfil reporting requirement.
  - To carry out daily compliance checks on all environmental aspects as per EMMP requirements.
  - To conduct daily toolbox meetings with construction workers including sub – contractors.
  - To monitor ECM performance and coordinate with QECP on specific issues.
  - To coordinate with EMMP Consultant Team/ EMMP team members for advice on specific issues related to EMMP implementation.

- ***Contractor's Qualified Erosion Control Professional (QECP)***
  - To design and endorse the ECM Plan.
  - To verify the implementation of ECM Plan as per the design.

- Periodic monitoring of the performance of ECM Plan.

- ***Contractor's EMMP Consultant***
  - To prepare the EMMP document in consultation with Contractor during pre-construction phase.
  - To assist in obtaining authority approval for EMMP.
  - During construction phase, review the physical monitoring results (Air, Water, Noise) provided by the Client as per approved EMMP.
  - Conduct bi-weekly site visits during construction phase to monitor the implementation of mitigation measures for biodiversity.
  - Prepare a monthly monitoring report within a week of receiving all the data, which includes highlighting and advising on any potential issues regarding the EMMP implementation.
  - Conduct ad-hoc site visits by ecologist when necessary to advise Client on response protocol in the case of fauna mortality, trapped animals, or human–wildlife conflict.

4.3 Training and Awareness

To ensure effective implementation of mitigation and monitoring measures, all relevant construction personnel (i.e., Project Manager, Construction Manager, EMMP In-charge / ECO, Site Supervisor, Foreman, Construction Worker Team Leader, etc.) will be made aware of the EMMP requirements prior to commencement of on-site work.

The biodiversity awareness briefing is to be conducted for all key construction personnel:

- Prior to commencement of activities on site;
- Daily toolbox meetings for construction workers should include reminders on wildlife encounters and environmental protection.

Every training session shall be documented and reported as part of best practices.

4.4 Environmental Incidence Protocol

4.4.1 Response Procedure

The monthly environmental monitoring may result in observations of failed or inadequate mitigation measures. Also, a public complaint/observation may be received. In the event that a failure is discovered that failure must be reported to the EMMP In-charge / Project Manager within shortest possible time.

The EMMP In-charge / Project Manager will then be responsible for ensuring adequate follow-up activities. This may include:

- Consultation with the EMMP Specialists / QECP / VCO / PRO.
- Arranging an immediate appropriate response on guidance of EMMP Specialists / QECP / VCO as necessary.
- Reporting and consultation with the relevant authorities (i.e. ,NEA, NParks, PUB) if required.

In the event of violation of relevant standards/regulations/complaints, the environmental management practices at site are to be reviewed immediately with appropriate mitigation actions taken immediately to reduce impacts to acceptable levels.

4.4.2 Incidence Reporting Flowchart

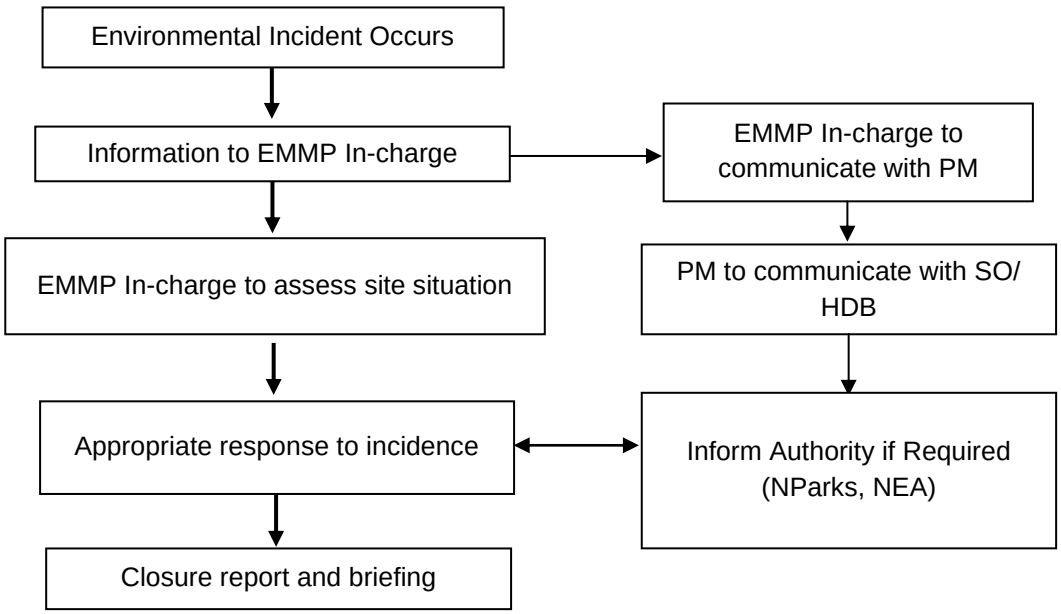


Figure 4.2. Environmental incidence reporting flowchart

Communication Details

Authorities / Relevant Contacts	Contact Number
NParks Animal Response Center (24hr)	1800 476 1600
ACRES Wildlife Rescue Hotline	9783 7782
PUB Hotline	1800 2255 782
NEA Hotline	6225 5632
BCA	1800 3425 222

5 BIODIVERSITY MANAGEMENT PLAN

5.1 Wildlife Management Plan

Given the location of the site within a forest of significant conservation value, it is necessary to minimise impacts to fauna species on the site. The development of a proper Wildlife Response and Rescue Plan will help to reduce impacts to fauna, while also reducing the risk of human-wildlife conflict, which may pose a human health and safety issue if not managed.

Wildlife management should commence prior to construction works. This is to ensure that animals within the site are safely moved outside the working boundaries, either by passive shepherding or active relocation. A Wildlife Rescue and Response Plan should then be put in place for the duration of the construction period for animals that may get trapped or injured within the construction site.

All construction personnel are to be sufficiently trained on biodiversity issues on the site and how to respond to sightings of fauna.

5.1.1 Applicable Legislations

- The Wildlife Act 2020
- The Animals and Birds Act 2002
- Fisheries Act 2002
- Endangered Species (Import and Export) Act 2017
- The Parks and Trees Act 2006
- The Parks & Trees Regulations 2006
- The Parks & Trees Preservation Order 1998
- Parks & Trees (Composition of Offences Regulations) 2006
- Parks & Trees (Planning Areas) Notifications 2006
- Parks & Trees (Heritage Road Green Buffers) Order 2006
- Singapore Red Data Book, Second Edition, 2008
- IUCN Red List of Threatened Species to assess species vulnerability 2020
- CITES (the Convention on International Trade in Endangered Species of Wild Fauna and Flora, also known as the Washington Convention) 1983

5.1.2 Recommended Mitigation Measures

- Ensure there are no works and disturbances to areas outside of work site, especially into the proposed nature park area.
- Hoarding of at least 4m height to be installed around proposed park area (excluding the section along Yishun Avenue 1)
- Ensure any associated slope stabilisation and grading works will not impact topography of areas outside work site and, water quality and hydrology of the waterbodies within the Project Site. Care should be taken to prevent siltation into the conserved area. Works should not encroach on these areas, not should there be clearance, trampling or vegetation damage to these areas. Overall, these areas should have no or minimal impacts.
- Erect permanent hoarding to limit vegetation clearance.
- Avoid felling trees during the peak bird nesting period (February to July)
- Establish Tree Protection Zones (TPZ) for trees to be retained.
- All works, storage of equipment, etc, to avoid tree roots.
- Visually inspect trees for nesting birds and animals prior to felling.
- Ensure equipment, vehicles, and footwear used are clean prior to commencing works.
- Identify plants to be transplanted.
- All works to be conducted during daylight hours (8am – 6pm)
- Conduct phased, directional vegetation clearance along with wildlife shepherding.
- Erect physical barriers to prevent fauna from crossing the road.
- Conduct daily checks of ECM blankets and pits to rescue any entrapped fauna.
- Erect temporary hoarding to limit vegetation clearance.
- Utilise only non-plastic, biodegradable ECM mats throughout the site.
- Use native trees for replanting of roadside verges.
- Reinstate habitats where possible upon completion of works.
- Reinstate working areas with selected native flora species where possible.

5.1.3 Monitoring Requirements

Monitoring Category	Impact	Monitoring Parameters	Monitoring Method	Location	Standards / Criteria	Time / Duration / Frequency	Reporting	Implementation
Biodiversity Monitoring • Avoiding clearance of vegetation outside working boundaries • Minimisation of disturbance to sensitive species • Minimisation of disturbance to sensitive habitats • Avoiding human wildlife conflict	<u>On-site Visual and Compliance Monitoring</u>							
	Habitat Loss and Degradation	• Hoarding to be erected prior to vegetation clearance to demarcate working boundaries • Hoarding of at least 4m in height installed around work boundary of proposed park area (excluding the section along Yishun Avenue 1) • Successful reinstatement of habitats upon work completion where possible • Retained vegetation within future Nature Park • Maintenance of water quality within stream	• Visual monitoring • Compliance check • Water quality monitoring	Entire project site (near / within future Nature Park)	• Proper installation of temporary hoarding/ barriers • Absence of vegetation clearance outside working boundaries	• Fortnightly during construction phase	• Monthly Environmental Performance Report	• Contractor PM • ECO / EMMP In-charge • Ecologist • Arborist
	Species Mortality	• Properly designated Tree Protection Zones (TPZ) prior to construction • Visual inspection of trees and holes for nesting birds prior to felling • Directional clearance of vegetation • Translocation of identified plant species • Translocation of targeted animal species	• Visual monitoring • Compliance check	Entire project site (near / within forested area)	• Proper TPZ installation • Retention of tree health • Absence of mechanical damage on trees • Absence of nesting birds • Absence of large mammal	• Prior to vegetation clearance (for wildlife translocation and fauna inspection) • Monthly during construction phase • Daily for	• Monthly Environmental Performance Report	• Contractor PM • ECO/ EMMP In-charge • Ecologist • Arborist

Monitoring Category	Impact	Monitoring Parameters	Monitoring Method	Location	Standards / Criteria	Time / Duration / Frequency	Reporting	Implementation
		• Daily checks of ECM nets for entrapped fauna			species • Absence of entrapped fauna	fauna entrapment		
	Human-wildlife Conflict	• Briefing to on-site workers on dos and don'ts, as well as notes on safety. • Areas are to be demarcated for food consumption and storage.	• Visual monitoring • Compliance check	Entire project site (near forested area)	• No injuries due to wild animals	• Weekly during construction phase	• Monthly Environmental Performance Report	• Contractor PM • ECO/ EMMP In-charge • Ecologist

5.1.4 Biodiversity Awareness Training

Prior to any construction activities, all construction personnel are to attend a biodiversity awareness training by the EMMP consultant. This training should impart important information on the ecological importance of the site, and the importance of minimising impacts to the natural environment. Also, they should be trained on the common fauna species they may encounter, and what to do should they have any wildlife encounters.

After the initial training, refresher training and toolbox briefings are to be conducted with the details specified in the following Table 5.1.

Table 5.1. Details of refreshing training and daily toolbox briefings

Training Schedule	Training Topics	Conducted By	Target Audience	Frequency
Prior to commencement of activities on site	EMMP Requirements Biodiversity & Environmental Awareness	EMMP Consultant	Environmental Manager/ ECO/ Project Manager / Construction Manager/ Construction Engineers/ Site Supervisors/ Sub-contractors	Once
Refresher training	Biodiversity & Environmental Awareness Briefing	EMMP Consultant	Site Personnel including Sub-contractors	Every six months during construction phase
Toolbox meetings	Briefing to include reminders on wildlife encounters and environmental protection	EMMP In-charge/ ECO	Construction Workers including Sub-contractors	Daily

5.1.5 Wildlife Management during Site Clearance

Wildlife management during tree clearance is a requirement for the project site. Directional clearance will allow for the passive shepherding of mobile fauna species, while active relocation of animals found within the project site may be required for other species. This is done in order to:

- Minimise the risk of road hazards and kills from the terrestrial fauna that are displaced from the project site onto adjacent roads.
- Minimise the risk of human-wildlife conflict from animals remaining within the project boundaries.
- Encourage wildlife movement into designated forested areas located outside of the project site's boundary.

Site clearance to be conducted in the following steps:

- Permanent hoarding along proposed working boundary along Yishun Avenue 1,

Miltonia Close, and Orchid Country Club to prevent entrance of fauna species into construction area and prevent animals from running onto the road;
- Manual clearing of undergrowth in phases and the phased installation, and relocation of permanent & temporary hoarding to prevent return of wildlife;
- Inspection of trees and tree holes for arboreal fauna, and relocation by qualified agencies and/or specialists.
- Felling of remaining trees.

Upon completion of the tree felling in the project area, the permanent hoarding will cover the full perimeter of the project worksite, as well as the proposed nature park.

Target Species

A list of target fauna species has been developed based on the findings of the EIA. Besides species encountered during the baseline surveys, other probable species that exist on the site were also included. This list was developed with the following considerations:

- probable presence of species in the Project area prior to construction;
- risks to species from being in close proximity to construction activities;
- practicality of relocating species from the construction site;
- conservation significance of species; and
- risk of road kills, road hazards, and/or human-wildlife conflict arising from uncontrolled species displacement from the project area.

The target species in the list in Table 5.2 have been categorized into two groups depending on their habits, and thus the approach required for wildlife shepherding. Fauna species in the first category are in general highly mobile species in which a passive approach is recommended, while fauna species in the second category are less mobile and would require a more active approach to shepherding.

Table 5.2 List of identified target species

Category	Species	Active Hours
Passive Shepherding	Long-tailed macaque Common palm civet	Diurnal Nocturnal
Capture-and-release	Smooth-coated otter Black spitting cobra Clouded monitor Malayan water monitor Reticulated python Bamboo bat Malayan colugo Other snake species	Diurnal Diurnal Diurnal Diurnal Nocturnal Nocturnal Nocturnal Diurnal and nocturnal

For wild boars found at or around the site at any time during the project, NParks is to be informed as soon as possible at nparks_wildlife_management@nparks.gov.sg for advice and subsequent action. An approved wild boar removal contractor must also be engaged to trap and remove the said animals, the process of which may take about 4–

8 weeks.

There are currently a large number of feral dogs on the project site. For dogs found within and around the project site, a trapping programme should be done at least 4 – 8 weeks prior to the commencement of construction activities. NParks should be contacted for advice and subsequence action for the trapped dogs.

Methodology and Approach

Directional tree clearance should only during scheduled daylight hours (8am to 6pm). It may include a combination of the following activities:

- Installation of hoarding along project boundaries, which would help to guide target terrestrial fauna in the intended direction of movement and as a barrier to prevent wildlife displacement onto adjacent roads;
- Installation of temporary hoarding to along width of cleared areas to prevent wildlife from re-entering the cleared areas;
- Systematic pattern of tree clearance in the site in order to encourage wildlife to encourage wildlife to move in an intended direction of movement towards adjacent refuge habitats, and;
- Careful survey to check for the presence of target fauna species and any active nests or dens.

Prior to any tree felling, the site is to be inspected by an ecologist to ensure that no target fauna and active nests or dens remain. After clearance of undergrowth, cleared areas should be hoarded up to prevent target terrestrial fauna from returning to the site.

The wildlife inspection prior to tree felling and vegetation clearance will also check for any entrapped animals within the hoarded area to be cleared. This inspection will be valid for 7 days only, during which the trapped animals have to secured away from the site and clearance must be conducted. If more than 7 days has passed and site clearance is not done yet, the inspection should be carried out again.

In the event that any target fauna listed in Table 5.4 are encountered during this process, the following actions which have been developed in consideration of reducing stress to fauna while ensuring the effectiveness of the shepherding exercise shall be taken:

i) Passive Shepherding: These are highly mobile species where passive shepherding is likely to be effective. When species in this category are encountered, personnel should allow the animal to move on its own accord. If necessary, personnel may talk loudly or make some noise by clapping their hands together to encourage the animal to move. If any individual fauna does not move on its own after sufficient time (i.e., up to one hour) has passed, the EMMP team is to make a decision on whether to call NParks' Animal Response Centre or ACRES for the appropriate removal of the animal.

Should the team encounter a visibly injured animal, NParks' Animal Response Centre or ACRES should be called immediately for the next course of action.

No attempt should be made by the EMMP team, workers, or other unqualified personnel at any point to handle animals on site. Handling animals without appropriate certification is illegal under the recent Wildlife Act of June 2020.

ii) Capture-and-release: Species in this group are less mobile and/or venomous, and a passive shepherding approach is deemed to be ineffective and/or unsafe. A capture-and-release approach will be needed to ensure safe relocation of these fauna from the site prior to construction. In the event that these species are encountered, NParks' Animal Response Centre or ACRES should be called immediately for the next course of action. Capture-and release of animals encountered should be conducted by an NParks' licensed animal management company.

For trees that are subjected to removal, it is necessary to check for the presence of fauna species before each individual tree is felled.

The ecologist shall inspect the tree for the presence of fauna, including birds, bats, arboreal mammals, and arboreal herpetofauna. The ecologist should do the following:

- Check the crown of the tree for bird nests
- Check along the trunk from the bottom up for holes in which animals could be nesting
- Scan the trunk and all the branches for animals using the tree
- Scan the ground for potential nests, eggs, or burrows

Photographs of all nests, tree holes, and burrows should be taken for record purposes. In the event that the presence of birds, bats, arboreal mammals and herpetofauna, are found on the tree, tree felling, or transplanting must be postponed until the animal has left the tree on its own accord.

Tree felling or transplanting should not occur during prime breeding season for birds in Singapore, between the months of mid-March to July. Outside these months, if active nests are detected on the tree, nests shall be left undisturbed until the young birds have fledged. Inactive nests should be removed to minimize the possibility of a new nesting attempt. Tree felling or transplanting shall occur only when no active nests are present on the tree.

Once tree felling is completed, the tree should be inspected again for any animals that were not detected earlier. Should an animal be detected after felling, NParks Animal Response Centre or ACRES should be contacted immediately, especially since the animal might be injured.

Through the undertaking of general approach, a register shall be maintained to record:

- the activities that were carried out,
- the species, numbers, GPS locations, dates, timings, and actions taken (if any) for each target fauna which was identified, and
- the description, GPS location, and actions taken (if any) for each burrow, inhabited tree hole and nest that was identified.

Spatial Visualisation of Directional Clearance

The figures below illustrate the overall scheduled phasing for directional clearance. These activities should take place during daylight hours only (i.e., 8 am to 6 pm) and a minimum of on rest day (i.e., Sunday) per week shall be provided to reduce disturbance to wildlife. Tree felling may commence three days after clearance of the understory vegetation.

This plan serves as a guide and should be updated prior to actual clearance works to include a more detailed clearance regime.



Figure 5.1 Hoarding before directional clearance commences

Permanent hoarding is to be erected along the contract boundary around the entire project site, including the proposed nature park area. The location of the permanent hoarding is indicated by the dark blue line in Figure 5.1 above. An example of the permanent hoarding is illustrated in Figure 5.2 below.



Figure 5.2 Example of the permanent hoarding

Directional clearance should encourage fauna to move to the proposed nature park area in the middle of the project site. Site clearance is to start from the northwest corner and move in the southward direction. Directional clearance should be conducted in 50 m by 50 m intervals as demarcated by the dashed white lines in Figure 5.3.

Prior to any vegetation clearance in the first interval, all tree holes, nests, and burrows should be inspected for wildlife.



Figure 5.3 Directional Clearance 1

The first cleared area should be temporarily hoarded up, as indicated by the light blue lines in Figure 5.3.



Figure 5.4 Directional Clearance 2

Prior to any vegetation clearance in the next 50 m by 50 m interval, all tree holes, nests, and burrows should also be inspected for wildlife. Directional clearance should take place in the direction of the black arrow, to encourage fauna to move towards the proposed nature park area.



Figure 5.5 Directional Clearance 3

Directional clearance should continue towards the south following the intervals demarcated by the dashed white lines. Prior to any vegetation clearance, all tree holes, nests, and burrows should be inspected for wildlife. In the event of any wildlife incidences, a wildlife contractor should be engaged. After each 50 m by 50 m interval has been cleared, the area should be temporary hoarded along the light blue lines.



Figure 5.6 Directional Clearance 4

Figure 5.6 shows the end of the directional clearance in the northern section. Upon completion of directional clearance up to the proposed nature park, permanent hoarding (dark blue line) should be erected along the northern boundary of the proposed nature park.

After the northern section has been cleared, directional clearance shall commence in the southern section.



Figure 5.7 Directional Clearance 5

Temporary hoarding (light blue line) should be erected along northern and southern sections along the last interval of remaining area to be cleared. There should be no gaps between hoarding to prevent fauna species from entering the site.

Directional clearance in the last interval should be conducted towards the west, to encourage fauna to move to the proposed nature park area. Prior to tree felling in the last interval, all tree holes, nests, and burrows should be inspected for wildlife. In the event of any wildlife incidences during tree felling, a wildlife contractor should be engaged.



Figure 5.8 Directional Clearance 6

Once directional clearance has been completed, the full working area should be hoarded up with permanent hoarding following the contract boundary. There should be no gaps between hoarding to prevent fauna species from entering the site.

5.1.6 Wildlife Response and Rescue Plan

Even upon the completion of wildlife shepherding works, it is highly probable that animals might be able to enter the site and get trapped, particularly burrowing or climbing animals. Whenever fauna is encountered within the working areas, all construction activities should be stopped immediately, and the Wildlife Response and Rescue Plan should be followed. Workers are to notify their supervisor, who will in turn contact the designated ecologist. The ecologist will then decide the next appropriate course of action.

All documentations of wildlife are to be captured in photographs, and a Wildlife Incident Form provided in **Appendix C** is to be filled.

Table 5.3. Wildlife response and rescue plan

Particular	**Within the project site**					**Outside project site**
Timeframe	During working hours					Any time
Animal type	Highly mobile animals (e.g., wild boar, feral dog, smooth-coated otters, and long-tailed macaques)		Non-large animals			Any
			Venomous / poisonous (e.g., king cobra, black spitting cobra)		Non-venomous / -poisonous (e.g., Malayan water monitor)	
Animal condition	Alive / Moving / Resting	Dead	Alive / Moving / Resting	Dead	Any	–
Risk To human	High	Low	High	Low	Low	–
Response	a. Stop work on work site b. Report to PM c. PM to report to EMMP In-charge d. EMMP In-charge to inform EMMP Specialist (Fauna), who will contact	a. Barricade affected area b. Report to PM c. PM to report to EMMP In-charge d. EMMP In-charge to inform EMMP Specialist (Fauna). e. If required,	a. Stop work at affected area; if possible, barricade affected area b. Report to PM c. PM to report to EMMP In-charge d. EMMP In-charge to inform EMMP	a. Barricade affected area b. Report to PM c. PM to report to EMMP In-charge d. EMMP In-charge to inform EMMP Specialist (Fauna). e. If required,	a. Stop work at affected area; if possible, barricade affected area b. Report to PM c. PM to report to EMMP In-charge d. EMMP In-charge to inform EMMP	a. Notify NParks Animal Response Centre/ ACRES hotline if necessary

Particular	Within the project site					Outside project site
	NParks/ ACRES for next steps if necessary	Contractor to assist with transporting of the Wild Animal to Disposal Location	Specialist (Fauna), who will contact NParks/ ACRES for next steps if necessary	Contractor to assist with transporting of Wild Animal to Disposal Location	Specialist (Fauna), who will contact NParks/ ACRES for next steps if necessary	
Remarks	• No attempts shall be made by Contractors to handle the animal • Contractor to take photograph of the animal if possible. • Contractors shall allow the animal to leave the site without harassment / handling • If animal is trapped, notify NParks Animal Response Centre or ACRES hotline • For wild boars found at or around the site, NParks is to be informed as soon as possible at for advice and subsequent action. An approved wild boar removal contractor must also be engaged to trap and remove the	• Contractor to take photograph of the animal	• No attempts shall be made by Contractors to handle the animal • Contractor to take photograph of the animal if possible. • Contractors shall allow the animal to leave the site without harassment / handling • If animal is trapped, notify NParks Animal Response Centre or ACRES hotline	• Contractor to take photograph of the animal.	• No attempts shall be made by contractors to handle the animal • Contractor to take photographs of the animal if possible. • Contractors shall allow the animal to leave the site without harassment / handling • If animal is trapped, notify NParks Animal Response Centre or ACRES hotline	• Contractor is encouraged to report • Reports could be from Public and/or Contractor's Staff • If required, EMMP In-charge to contact PM for assistance of transferring Wildlife Animal Carcass to Disposal Location

Particular	Within the project site					Outside project site
	animal.					

5.2 Flora Management Plan

The following Flora Management Plan lays out the details on nursery engagement, how to carry out salvaging of nature plants, how to maintain salvaged saplings, how to carry out tree protection works, the required components of tree assessments and monthly monitoring, etc. The tree protection and assessment duties should come under an ISA Certified Arborist.

Within the areas to be cleared, trees to be retained will be confirmed at a construction phase. Protection of retained trees should be done though establishment of appropriate Tree Protection Zones (TPZ). Additionally, hoarding to be implemented around the project site to prevent unnecessary vegetation damage outside the project area. Any native flora species found within cleared land should be salvaged whenever possible.

5.2.1 Salvaging Native Plants, Setting Up of Nursery, and Reinstatement

Native Plant Salvaging Personnel Requirements

It is important that all individuals involved the salvaging works are competent enough to conduct the required works i.e they shall have the background and expertise in the landscaping related industry. Preferably, they shall have good local flora (trees, shrubs) identification skills as well as hands on experience in the operational aspects such as transplanting and nursery management to ensure a higher success rate in the transplanting process.

It is expected that NParks will be overseeing this sapling transplanting exercise for this project and all the salvaged plants will be housed and maintained at NParks-approved locations.

5.2.2 Salvaging Native Plants, Setting Up of Nursery, and Reinstatement

Setting Up On-site Nursery / Selecting an External Nursery

Prior to site clearance, the appointed Contractor should liaise and work in consultation with NParks and other stakeholders (i.e HDB) on setting up of a dedicated holding location at NParks approved locations to house the salvaged plants.

The nursery should adequately be equipped with all the necessary resources such as irrigation system and required landscaping tools and equipments to manage all salvaged plants. The nursey should have area separate sectors segregated for both sun loving and shade loving plants. Generally, shade loving plants need to be kept in locations with shade cloth or temporary shelter where the sunlight intensity is preferably between 60-90 Photosynthetic Active Radiation (PAR) and maintaining at least 85% of humidity through means such as misting or other alike techniques. In general, the temperature within the nursery should not exceed 30°C.

Salvage and Transfer Native Plants to Nursery

Before any site clearance, the Flora Specialist/ Arborist will identify the list of trees to be

retained and recommend suitable Tree Protection Zones to minimise impact on these trees during land clearance. NParks will review this list when it is finalised. Plants identified for salvaging shall be in healthy and vigorous condition, free from pest and diseases infestation with proper documentation or records such as species identification, photos and tagged with unique tagged numbers. If fruits of species with local conservation status of EN and CR are observed during salvaging, the salvaging team can seek consultation or confirmation with NParks subject matter experts i.e Native Plant Centre on whether they are significant or valuable to be kept and cultivated for any future usage.

Only saplings with a girth of 0.3 m or less are to be tagged and harvested. The root ball size of saplings will be determined in consultation with Certified Arborist. The general rule of thumb of root ball size for transplanting is that for every 1 cm increase in tree stem diameter, there should be 8cm increase in root ball width. For example, a diameter of 5cm would require 40 cm root ball width. The height of root ball should range from 35–50 cm depending on the root condition. Minimal tree pruning i.e. deadwooding (removal of dead and defective branches) should be done using appropriate gardening tools that are disinfected before each cutting prior to being transplanting it out to the nursery.

For saplings of more than 1m in height, HDB's earthworks contractor will do the transplanting under the supervision of the appointed Flora Specialist/ Arborist to the approved location. For smaller saplings, NParks will arrange site visits to transplant them out where necessary.

Generally, there are 4 stages in the transplanting process;

1st stage - Dig a trench on the outside of the marked circumference in only two opposing segments;

2nd stage – After a period of no less than 1 month since the 1st root pruning, dig a trench on the outside of the marked circumference in the adjacent two opposing segments;

3rd stage – After another period of no less than 1 month since the 2nd root pruning, dig a trench on the outside of the marked circumference, in the remaining two opposing segments; and

4th stage – After a further period of not less than 1 month since the 3rd root pruning, prepare the root ball and cut the underside.

For other type of plant (e.g., climber) that cannot be transplanted in full, they can be propagated through leaf, stem and root cuttings whereas epiphytes and ferns can be collected together with a fern slab tied to and / or fallen branches / logs attached to it.

In the nursery, tree saplings should be unloaded from the transport vehicle, either mechanically by crane lorry or manually lifting the sapling from the secured root ball to ensure that it don't breaks up during the shifting process. The saplings should be placed into the bags or containers in the nursery site. After placing the tree sapling into the

polythene bag, remove the burlap and backfill the space/gaps with clean approved soil mix. Staking support shall be provided only when necessary to keep the plant upright. The saplings shall be placed at the location with adequate spacing between them based on their desirable growth condition i.e under sun / under shade. Cuttings from climbers shall be dipped into growth hormone and inserted into a container with a mixture of sand and soil. Individual saplings shall be salvaged from site, transported, and placed in the temporary nursery site within a day.

There should be a proper inventory of the salvaged saplings consisting of information such as the tag number, photo, and species.

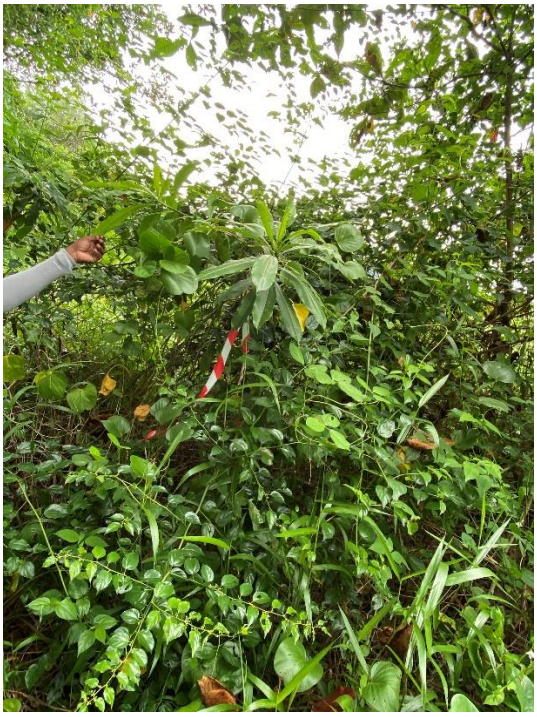


Figure 5.9. Example of a tagged native sapling



Figure 5.10. Example of temporary nursery

Growth and Maintenance of Salvaged Native Plants

The newly harvested saplings should be maintained until the saplings have sufficiently

established. The transplanted climbers and epiphytes are to be placed under shade until they have established and sprouting of young leaves occur. Once each tree has been transplanted, daily maintenance activities should begin. Sufficient space between salvaged saplings should be provided such that the saplings have room to grow in size. Table 5.4 outlines the maintenance regime.

To ensure good form and structure of the harvested saplings, it is recommended to carry out formative pruning on the harvested tree saplings in accordance with ANSI A-300 pruning standards (ISA). Manual weeding should be carried out regularly for the harvested saplings. All weeds should be removed before mulching. Regular mulching should be applied to all harvested saplings at the receiving site. The mulch used should be friable, odour-free high grade mature composts.

Table 5.4. Maintenance regimes for salvaged plants at nursery

Regime	Frequency	Material
Watering	Daily, except for the rainy days	Non potable water 5L for trees <0.1m in girth and at least 30L for trees >0.3m in girth
Fertilization	Fortnightly	E.g., Fish kelp, humic acid, high EC molasses
Pesticide	As and when required	Pesticide should be avoided whenever possible. Use organic certified solutions instead
Mulching	Once a month	Mulch should have a minimum thickness of 20 mm, should be an approved friable, odour-free high grade mature compost or an approved mix, with C:N ratio between 12:1 and 25:1. Mulch pH must be between 5.5 to 7.
Weeding	Once a week	Weeding should be done manually and before mulching
Pruning	As and when required	Clean cutters. Cutters must be wiped clean in between cuts.

Site Reinstatement Works Using Salvaged Native Plants

Where possible, working areas within the project site should be reinstated with native plants.

After all the remaining salvaged plants had been planted on reinstatement sites, the following ISA Best Management Practices (BMP) are to be implemented, including watering for at least eight weeks to ensure survival and establishment.

The criteria of satisfactory saplings include (but are not limited to):

- Saplings are in good health and free from injury with good taper
- Saplings of tree species can be self-supporting and planted without staking (with the exception of climber and shrub)
- Saplings of excurrent species should have a defined central leader with apical bud intact
- Root crown must be at the surface of the rootball

- When shaking or handling the unsupported rootball at least 90% of the soil volume must remain intact
- Rootball is shaved or pruned if girdling root is observed within planting bag

5.2.3 Assessment and Monitoring of Trees to be Protected

Before any construction activity begins (including both planned and ad-hoc site clearance), the Arborist shall perform pre-construction tree assessment for trees at proposed development site. The Arborist should utilise Site Layout Plan and Topography Plan to determine extent of tree roots and tree crown affected by the development. Based on site observation, construction drawing and design, estimated work area boundary, the Arborist shall produce tree assessment report recording tree information such as site and tree photos, species, height, girth, crown spread, tree health, form, structure, site observations and assessment on whether the tree will be affected by proposed development footprint, and if so, what are the recommended mitigation measure to construction impact on trees. This tree assessment report will then serve as record of pre-development tree condition, and the Arborist will have to refer to this report as benchmark when performing monthly monitoring for trees.

Tree pruning such as crown cleaning, formative pruning, structural pruning, or crown thinning should be the first line of mitigation measures. Tree Support Systems such as Tree Guying and Root Anchoring must be considered if the tree is deemed to be susceptible to wind throw.

In particular, four trees were considered for retention (Figure 5.11). Of these, T3648, T3647 and T319 have been assessed to be suitable for retention. Prior to any site clearance, these trees should be tagged, and Tree Protection Zones (TPZs) should be set up (See Section 5.2.4 for details).

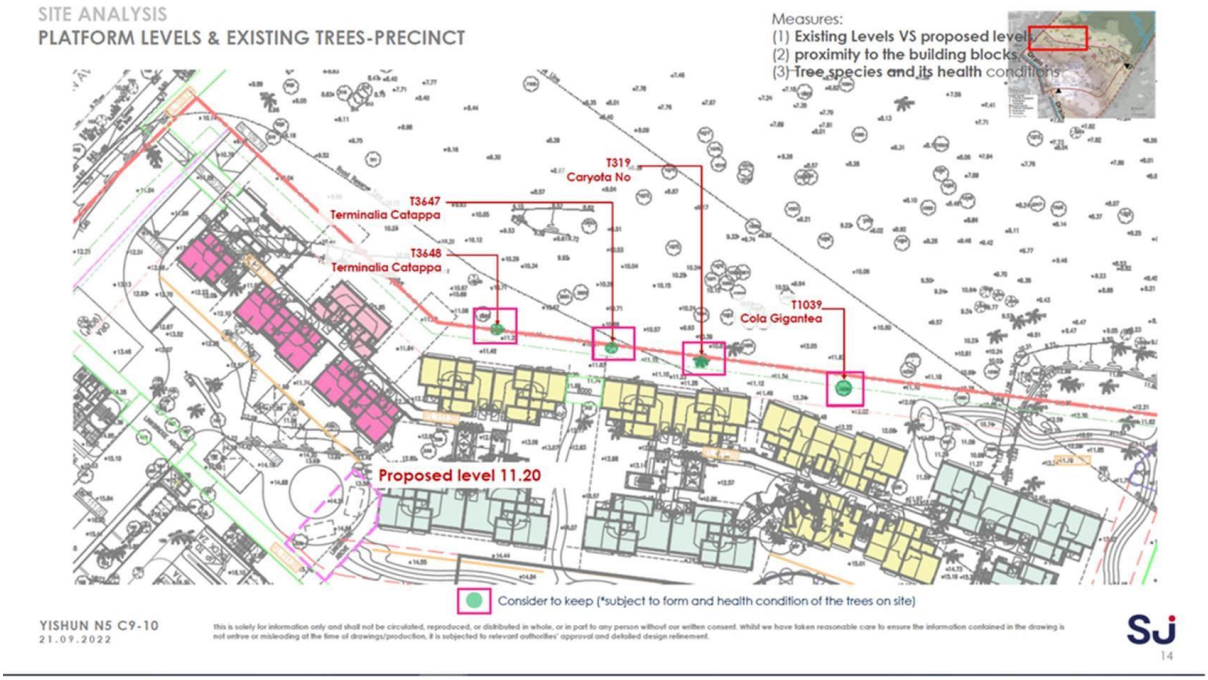


Figure 5.11 Trees considered for retention

5.2.4 Tree Protection Zones

While the design of new residential area doesn't allow retention of large trees within most of the construction footprint, it is possible to retain large trees that fall either (i) inside a footprint that can afford flexibility in location or (ii) outside of construction footprint but within areas with other construction needs. For example, manhole or equipment storage site can be shifted if a native mature tree was found within or at the border of such site. A TPZ is an area demarcated to protect individual trees to minimize the impacts of construction activities (including root damage, mechanical trunk damage, damage due to soil compaction, etc.) on the tree. NParks (2018) has included some guidelines on Tree Protection Zones in their Guidelines on Greenery Provision and Tree Conservation for Developments.

TPZ size varies depending on tree size (Table 5.5). In general, the remaining space should be sufficient for implementation of design and required infrastructure. Shall the Contractor require ad-hoc space during construction, the area should be surveyed for native trees to be retained on site and native saplings to be salvaged to on-site nursery before any clearance. If any materials encroached into TPZ, the spillage should be cleaned up immediately and the Arborist must be informed. The Contractor shall notify Arborist immediately if trees to be retained are damaged. If the tree suffers from substantial damage as determined by the Arborist, the Contractor should replace the tree of the same species and size.

Table 5.5. TPZ size required for different girth range

Girth	Recommended TPZ (radius)
<0.5m	1 m

Girth	Recommended TPZ (radius)
>0.5m but less than 1m	2 m
>1m but less than 1.5m	3 m
>1.5m but less than 2m	4 m
>2m	5 m
Fig trees and Trees with Critically Endangered status	Prescribed individually by Arborist on a case-by-case basis

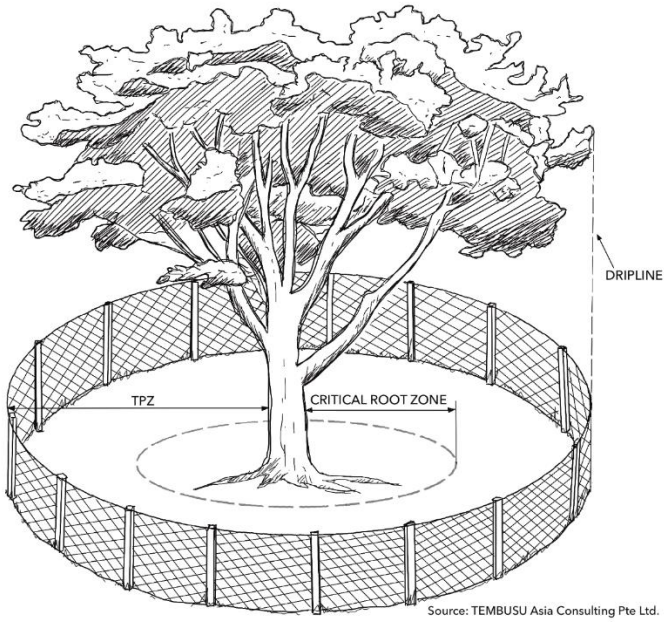


Figure 5.12. Tree Protection Zone Diagram

The following specifies guidelines for construction activities within and outside the TPZ, extracted from NParks (2018).

Inside TPZ

- There must be no excavation, raising or lowering of soil level, compaction or any form of construction activities including temporary works within the hoarded area.
- Dumping of debris, excavated materials and/or storage of construction materials and equipment are not allowed within the TPZ.
- The demolition of drains, structures within the TPZ should be carried out manually and backfilled with Approved Soil Mixture (ASM) immediately.
- Trees are to be watered regularly if rainfall is inadequate.
- Trees are to be fertilised if soil tests or deficiency symptoms indicate they are nutrient stressed.

Outside TPZ

- If major roots are encountered during excavation, the applicant may like to seek

advice from a Certified Arborist, as cutting of major roots may affect the stability of the tree. Where possible, alternative proposals should be explored to avoid the need to cut the roots.

- In cases where the trees are managed by NParks (e.g., trees within the park connector planting verge), or are required by NParks to be conserved (e.g., trees with girth >1.0m within TCA or vacant land), approval from NParks must be obtained before the major root can be cut. If approval is granted by NParks to cut the roots, this must be done with a clean cut using a chainsaw.
  All building debris and chemical wastes should not be burned or buried within green verges on the site.

5.2.5 Tree Felling Within Forested Areas

Before felling trees, the Arborist must ensure native saplings have already been tagged, identified, and transplanted into on-site nursery. The Arborist must also survey, identify, and confirm the trees to be protected in the surrounding area and establish a tree felling protection distance based on site condition and tree crown spread.

The trees to be felled shall be inspected for any fauna as per guidelines provided in wildlife management plan (Section 5.1). Such trees will be marked with red & white tape and no tree felling operation shall be carried out within 5 m from the said tree until further instruction.

6 ENVIRONMENTAL MANAGEMENT PLANS

An EIA was carried out for the project site that established baseline conditions within study area, assessed the impacts, and recommended the mitigation measures. The following management plans provide the potential impacts and mitigation measures that are to be implemented during construction phase.

It is recommended to review the whole environmental management plan every quarter to update or adjust the applicable mitigation measures and monitoring requirements based on the various site considerations such as work progress, site utilisation, change in work methods, environmental incident, failure of mitigation measures etc.

6.1 Air Quality Management Plan

6.1.1 Applicable Legislations

- Environmental Protection and Management Act 1999, Part IV on Air Pollution Control
- Environmental Protection and Management (Vehicle Emissions) Regulations 2008
- Environmental Protection and Management (Prohibition on Use of Open Fires) Order 2008
- Environmental Protection and Management (Air Impurities) Regulations 2008
- Singapore Ambient Air Quality Targets (Long Term Targets)

6.1.2 Identified Impacts and Recommended Mitigation Measures

Identified Impacts	Recommended Mitigation Measures
Earthworks Dust from construction sites deposited on vegetation can reduce photosynthesis, respiration, transpiration, and allow phytotoxic gaseous pollutants to penetrate. Dust can also leech chemicals into the soil.	• To implement dust suppression plan • Use of hoarding at project boundary to minimise dust generation by attenuating wind forces. • Install hard surfaced access routes • To avoid stockpiles of soil and dusty materials at project site within work areas as far as possible. • If unavoidable, stockpiles of soil should be located away as far as possible from sensitive receptors (i.e., adjacent flora and fauna as well as residential areas located along Yishun Ave 1 and Miltonia Close). • Provide additional dust screen at project boundary near sensitive receptors (i.e., flora and fauna as well as residential areas located along Yishun Ave 1 and Miltonia Close).

Identified Impacts	Recommended Mitigation Measures
Deposition of concrete dust can increase surface alkalinity, which can hydrolyse lipids and wax components, penetrate the cuticle, and denature proteins, causing leaves to wilt. <u>Gaseous emissions from construction equipment, vehicle, and off-road diesel exhaust</u> Emissions occur throughout the site, but impacts are usually localised within the worksite and are short-term (only during equipment operation)	• Any soil or stockpiles of dusty material should be properly stored, covered entirely with impervious sheeting or dampened with water to maintain entire surface wet by contractor. • Soil stockpiles shall not be higher than 0.6 times the nearest hoarding height. • Excavations should be backfilled or reinstated as soon as practicable following completion of the construction work. • Material transport of inert solids (excavated materials) should be enclosed using impervious sheeting, minimising the visual dust impacts as well. • Use of regular watering to reduce dust emissions from exposed site surfaces, particularly during dry weather on open areas. • Open burning of construction and other wastes are not allowed at the worksite as this is an offence under the Environmental Pollution Control regulation. • Personal protective equipment such as mask shall be worn during the severe air pollution and/or dust exposure periods by construction personnel. • Avoid soil disturbing works during dry and/or windy conditions. • Stabilize/cover all stockpiled materials for longer than one month by turfing, erosion blanketing or other method. • Vehicle on-site speed restrictions should be imposed to prevent dust being stirred up by vehicle movements. • Carry out regular site inspections to monitor and record compliance with the Air Pollution Control Plan • Plan site layout so that machinery and dust causing activities are located away from receptors, where possible. • Use enclosed chutes and conveyors and covered skips wherever possible. • Carry out regular site inspections to monitor and record compliance with the Air Pollution Control Plan • Plan site layout so that machinery and dust causing activities are located away from receptors, where possible. • Use enclosed chutes and conveyors and covered skips wherever possible. • Proper maintenance of construction vehicles and fuel burning equipment • Intermittently-used vehicles and machinery are to be shut down between work periods • Provide vehicle washing facilities before the construction site exit. • Pave the area between construction site exit and the vehicle washing facilities. • Maintain road surface in the construction site wet (e.g., using sprinkler). • Proper maintenance of construction vehicles and fuel burning equipment. • Intermittently used vehicles and machinery are to be shut down between work periods to minimum exhaust emission.

6.1.3 Monitoring Requirements

Monitoring Category	Impact	Monitoring Parameters	Monitoring Method	Location	Standards / Criteria	Time / Duration / Frequency	Reporting	Implementa-tion	Supervision
Air Quality Monitoring • Minimization of human health & biodiversity impacts due to dust pollution • Minimization of human health impacts due to exhaust emissions	**<u>On-site Visual and Compliance Monitoring</u>**								
	Fugitive dust emissions	• Verify implementation of dust suppression plan • Watering to reduce dust emissions from exposed areas • Washing bay • Implementation of vehicular speed limit • Covered stockpiles • Use of PPE (face mask) by construction personnel	• Visual monitoring • Compliance check	All construction areas	Approved dust suppression plan	During entire construction phase	Monthly Environmental Performance Report	Contractor/ EMMP In-charge	HDB/ SO
	Exhaust emission from construction machineries operations	Maintenance frequency of vehicles and machineries	• Visual monitoring • Compliance check	All construction areas	No visible exhaust plume, dark smoke etc.	During entire construction phase	Monthly Environmental Performance Report	Contractor/ EMMP In-charge	HDB/ SO
	<u>On-site Air Quality Monitoring</u>								
	Particulate matter emission from construction activities	$PM_{2.5}$ and PM_{10}	Air monitoring equipment (e.g., USEPA FRM/FEM equipment[1])	Entire project site	Singapore Ambient Air Quality Targets	• 24hr (1 day) continuous monitoring • Once a Month (When most of the dust-	• Monthly Environmental Performance Report	Contractor/ EMMP In-charge	HDB/ SO

						generating activities are conducted)			

[1] It is recommended that air quality monitoring be conducted using a USEPA FRM/FEM equipment. The list of designated reference and equivalent methods can be found at https://www.epa.gov/system/files/documents/202206/designated_reference_and_equivalent_methods_-_06152022.pdf. If a non-USEPA FRM/FEM equipment is used, the Monthly Environmental Performance Report is to include information on the co-location or calibration carried out with a USEPA FRM/FEM equipment to ensure the equipment's performance prior to deployment at the project site.

6.2 Noise Control Plan

For the earthworks phase of this project, the Contractor has confirmed that no nightworks will be conducted. This noise control plan provides overall management framework for mitigation measures and monitoring requirements. A detailed Noise Management Plan (NMP) in accordance with NEA requirement is to be prepared incorporating below information as well as additional information such as baseline noise levels, and corrected noise standard limits.

6.2.1 Applicable Legislations

- Environmental Protection and Management Act 2002, Part VIII Noise Control
- Environmental Protection and Management (Control of Noise at Construction Sites) Regulations 2008
- NEA Code of Practice on Pollution Control SS 593 (2013)
- Code of Practice for Noise Control on Construction and Demolition Sites SS602 (2014)

6.2.2 Identified Impacts and Recommended Mitigation Measures

Identified Impacts	Recommended Mitigation Measures
Disturbance of flora and fauna species and human receptors.	• All works to be conducted during daylight hours (8am – 6pm). • Use powered mechanical equipment with lower noise levels to mitigate noise at the source • Extend wildlife shepherding to trapped fauna found in construction sites as they will be subjected to severe noise impacts • Noise barriers of up to 5m to be placed as close to the source or the receiver (without causing additional vegetation clearance beyond construction worksites) to mitigate noise impacts to ALARP

Identified Impacts	Recommended Mitigation Measures
	• Noise barriers are to be used along Yishun Avenue 1, along the boundary of Orchid Country Club, as well as along the forested and grass patch areas next to the residential areas at Miltonia Close • Noise barrier (STC 20) around proposed park area (excluding the section along Yishun Avenue 1) to be at least 4m high. • Acoustic dampening of compressors and generators • Acoustic sheds for major hacking structures • Enclosure panels closed, engines not exposed, and manufacturer-installed silencers for engine exhausts to be installed and maintained for earth-moving plants • Acoustic enclosure of all pumps • Machines (such as trucks) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum • Only well-maintained construction plants should be utilized on-site, and construction plants should be serviced regularly during the entire construction period • The number of PMEs should be reduced as far as practicable when construction works are carried out at areas close to the noise sensitive receivers: Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction programme • Behavioural practices including no shouting, no loud stereos/ radios on site, no dropping of materials from height, no throwing of metal items should be ensured • Construction respite: Restrict high noise generating drilling activities only in continuous blocks, not exceeding 3 hours each, with a minimum respite period of one hour between each block, if possible • Plan the layout of the site by considering using materials and other large structural equipment as noise barriers • Construction plants known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby noise sensitive receptors • Material stockpiles and other structures will be effectively utilized, wherever practicable, in screening noise from on-site construction activities • All handheld percussive breakers and air compressors used on site will comply with local legislation and requirements • Activities may be scheduled to minimize noise generated at certain areas during periods which may be particularly sensitive to noise • Noise awareness briefing should be conducted regularly and highlighted the noise mitigation measures such as position of machinery and making use of portable noise barriers.

Identified Impacts	Recommended Mitigation Measures
	• If noise remains an issue even after implementation of recommended mitigation measures such as noise barriers, contractor should consider implementation of proprietary noise barriers of high noise reduction capabilities to further reduce noise to acceptable levels. • Personnel are to wear appropriate Personal Protective Equipment (PPE) at all times while on the construction site • Quieter equipment and vehicles with low noise levels to be used • All noise and acoustic barriers to be able to achieve at least 10 dB(A) noise reduction from source noise levels • To consider erection of temporary acoustic barriers around piling equipment • For piling work (if any), to consider the use of quieter piling methods • Acoustic enclosures to be considered for compressors, generators, drilling tools etc. • Noise level monitoring throughout all phases to ensure that the construction noises remain within acceptable limits

6.2.3 Monitoring Requirements

Monitoring Category	Impact	Monitoring Parameters	Monitoring Method	Location	Standards / Criteria	Time / Duration / Frequency	Reporting	Implementation	Supervision
Noise Monitoring • Minimization of biodiversity disturbance due to construction noise • Minimization of nuisances to human due to construction noise	**<u>On-site Visual and Compliance Monitoring</u>**								
	Disturbance to biodiversity and human due to construction noise	• Noise barriers around construction work areas (used along Yishun Avenue 1, along the boundary of Orchid Country Club, as well as along the forested and grass patch areas next to the residential areas at Miltonia Close) • 4m noise (STC 20) barrier around proposed park area (excluding the section along Yishun	• Visual monitoring • Compliance check	Entire project site	• Environmental Protection and Management (Control of Noise at Construction Sites) 2008	• Monthly during entire construction phase	• Monthly Environmental Performance Report	• Contractor/ EMMP In-charge • ECO	HDB/ SO

		Avenue 1) • Utilization of quieter equipment and vehicles with low noise levels • PPE use by construction personnel at all times while on the construction site							
	<u>On-site Noise Monitoring</u>								
	Noise generated from construction work	• Leq 12 hrs • Leq 1 hr • Leq 5 mins	Sound level meter	Entire project site	• Environmental Protection and Management (Control of Noise at Construction Sites) 2008	• Continuous (24x7) boundary noise monitoring • During entire construction phase	• Monthly Environmental Performance Report	• Contractor/ EMMP In-charge • ECO	HDB/ SO

6.3 Water Pollution Management Plan

6.3.1 Applicable Legislations

- Sewerage and Drainage Act 2001
- Sewerage and Drainage (Surface Water Drainage) Regulations 2007
- Sewerage and Drainage (Trade Effluent) Regulations revised 2007
- Environmental Protection and Management Act 2002, Part V on water pollution
- Environmental Protection and Management Act (Trade Effluent) Regulations 2008
- PUB Code of Practice on Surface Water Drainage (2018)
- PUB Handbook on Managing Urban Runoff (2013)
- PUB Guidebook on Erosion and Sediment Control at Construction Sites (2018)

6.3.2 Identified Impacts and Recommended Mitigation Measures

Identified Impacts	Recommended Mitigation Measures
<u>Surface water quality</u> Changes in water quality due to solid and toxic waste generated by construction and daily routine activities Changes in water quality due to liquid effluent generated by construction and daily routine activities Changes in water quality due to accidental spillage and release Changes in water quality due to contaminated stormwater runoff <u>Hydrological</u> Change in dry weather flow conditions Flooding during wet weather	<u>Earth Control Measures (ECM)</u> • Prepare and endorse ECM plan by a Qualified Erosion Control Professional (QECP) before the commencement of construction works in all Areas. • ECM should only be removed after completion of the works. The QECP should authorize removal of the ECM. <u>Fuel & Chemical Spillage and Waste Disposal Management</u> • All slurry preparation activities are to be conducted within a designated area that has adequate containment measures. • To ensure that slurry water, including bentonite slurry (If any), is contained within the working area and does not enter any watercourses or surface water drains. • Storage tanks for slurry and supply lines should be located as far as possible from surface water drains or watercourses. • Bentonite use (if any) should be monitored so that excessive use could be identified to prevent bentonite materials from escaping into the ground and potentially polluting groundwater • All liquids to be properly labelled and stored in appropriate containers at safe location on site (i.e., under a shelter with kerb surrounding). Personnel handling these liquids should also be suitably trained. • Vehicle fuelling and major maintenance to be minimised within the project area. • Appropriate concrete wash bays should be provided and should not be performed in or near any water body. • Water used for dust control should not be allowed to cause erosion within the work area or to run offsite. • Excess loose soil and rock to be contained prior to the commencement of works. • Regular water quality monitoring is to be conducted according to the proposed Environmental Monitoring Plan during construction and post-construction stage. • Foreign material should not be illegally disposed at the water bodies but removed from site by a licensed waste collector. <u>Trade Effluent Management</u> • Contractor to provide storage tanks of adequate size and sufficient numbers to temporarily store trade effluent before treatment and disposal. • Contractor to provide sampling point and inspection for collection of trade effluent to be tested for parameters stipulated in the Regulations, depending on the discharge point (i.e., sewer, watercourse, controlled watercourse). • Regular water quality monitoring is to be conducted according to the proposed Environmental Monitoring Plan during construction and post-construction stage. • Contractor should install and maintain trade effluent treatment facilities (e.g., slurry treatment plant, grease trap and suspended solid settling tank) as per NEA's requirements. • Area where trade effluent is being transported out to be kerbed to minimise spills <u>Oil & Fuel Spillage and Waste Disposal</u> • To ensure that bentonite is contrained within the working area and does not enter any watercourses or surface water drains • Storage tanks for slurry and supply lines should be located as far as possible from surface water drains or watercourse

Identified Impacts	Recommended Mitigation Measures
	• Storage silos and micropile storage tanks should have secondary containment • Areas where bentonite is mixed are to be surrounded with a small boundary wall or contained within a bund. This action will help to control the slurry produced and prevent it from entering surface water drains or watercourses. • Bentonite use (if any) should be monitored so that excessive use could be identified to prevent bentonite materials from escaping into the ground and potentially polluting groundwater • Waste bins to be provided within the construction work area for proper disposal of construction debris and rubbish. Foreign material should not be illegally disposed at the water bodies but removed from site by a licensed waste collector. • All liquids should be properly labelled and stored in appropriate containers at safe location on site (i.e., under a shelter with kerb surrounding). Personnel handling these liquids should also be suitably trained. • Vehicle fuelling and major maintenance to be minimised within the project area. • Appropriate concrete wash bays should be provided and should not be performed in or near any water body. • Water used for dust control should not be allowed to cause erosion within the work area or to run offsite. • Excess loose soil and rock to be contained prior to the commencement of the works. • Emergency spill kits should be provided by contractor on site in the event of any chemical spillages. Emergency response team should also be trained in the use of these spill kits.

6.3.3 Monitoring Requirements

Monitoring Category	Impact	Monitoring Parameters	Monitoring Method	Location	Standards / Criteria	Time / Duration / Frequency	Reporting	Implementation	Supervision
Water Quality Monitoring • Minimization of impact to waterbodies due to contaminated site run-off • Minimization of impact to terrestrial habitats due	<u>On-site Visual and Compliance Monitoring</u>								
	ECM non-compliance	• Verify implementation of ECM Plan • Perimeter cut-off drains, perimeter silt fence, silt traps, sedimentation basin and silt treatment system	• Visual monitoring • Compliance check • ECM checklist	Construction area with earthworks	• ECM Plan designed by a Qualified Erosion Control Professional (QECP)	• Daily compliance monitoring • During entire construction phase	• Monthly Environmental Performance Report	• Contractor/ EMMP In-charge • ECO • QECP	HDB/ SO
	<u>On-site Water Quality Monitoring</u>								
	ECM discharge (sediment runoff)	• Total Suspended Solids (TSS)	• Implementation of TSS monitor and CCTV including a Silty Imagery	• Final ECM discharge points	• Less than 50 mg/L for TSS • Sewerage and Drainage (Surface	• Real-time continuous during entire construction	• TSS report • Monthly Environmental Performance Report	• Contractor/ EMMP In-charge • ECO	HDB/ SO

to erosion of topsoil			Detection System (SIDS)		Water Drainage) Regulation 2007	phase			
	Contamination of water resources through trade effluent discharge	• All parameters identified in EPM (Trade Effluent) Regulations for Controlled Watercourse • Additional parameters: Aluminium, Conductivity, Turbidity, Total nitrogen, Total phosphorous, Total organic carbon, Ammonia, Enterococcus	• Ex-situ monitoring	• At every discharge outlet	• EPM (Trade Effluent) Regulations for Controlled Watercourse	• Monthly during construction phase	• Monthly Environmental Performance Report	• Contractor/ EMMP In-charge • ECO	HDB/ SO
	Degradation of stream habitat (Construction stage monitoring)	• All parameters identified in EPM (Trade Effluent) Regulations for Controlled Watercourse	• In-situ and ex-situ monitoring	• Same locations as per baseline surveys at Stream during construction phase	• EPM (Trade Effluent) Regulations for Controlled Watercourse • Baseline results	• Monthly during construction phase	• Monthly Environmental Performance Report	• Contractor/ EMMP In-charge • ECO	HDB/ SO

6.4 Vibration Management Plan

6.4.1 Applicable Legislations and Guidelines

- NEA Code of Practice on Pollution Control SS 593 (2013)
- Code of Practice for Noise Control on Construction and Demolition Sites SS602 (2014)

6.4.2 Identified Impacts and Recommended Mitigation Measures

Identified Impacts	Recommended Mitigation Measures
Disturbances to the fauna due to vibration from construction activities	• All works to be conducted during daylight hours (8am – 6pm). • Use of equipment or method which generate lower vibration levels, where possible. • Route heavily loaded trucks away from the VSRs as far away as possible. • To plan and phase excavation, earth- moving, and ground pilling activities in staggered manner • Control speed of vehicle movement at the worksite • Notify nearby VSRs (e.g., residential buildings) in advance of the construction activities • Keep access roads within project work site in good condition

6.5 Waste Management Plan

6.5.1 Applicable Legislations

- Environmental Protection and Management Act 2002, Part VII on Hazardous Substances
- Environmental Protection and Management (Hazardous Substances) Regulations 2008
- Environmental Public Health (General Waste Collection) Regulations 2000
- Environmental Public Health (Toxic Industrial Waste) Regulations 2000

6.5.2 Identified Impacts and Recommended Mitigation Measures

Identified Impacts	Recommended Mitigation Measures
Degradation of habitats and pollution due to: • Disposal of cut vegetation • Disposal of excavated material • Disposal of general waste material	• To develop solid waste management plan • Timber/wood to be recovered for use in the wood industry as far as possible • To develop solid waste management plan • Surplus excavated material to be reused within project site as fill, landscaping, erosion control and restoration wherever practicable • Scrap metals to be recovered and sent for recycling as scrap • Inert general waste to be collected and disposed through licensed waste collector • All non-hazardous wastes to be handled and disposed of in accordance with EPH (General Waste Collection) Regulations • Any hazardous wastes that are generated must be handled and disposed of in accordance with the requirements of the EPHA and the EPH (Toxic Industrial Wastes) Regulations. • Disposal of hazardous waste must be through a licensed waste collector for hazardous waste.

6.5.3 Monitoring Requirements

Monitoring Category	Impact	Monitoring Parameters	Monitoring Method	Location	Standards / Criteria	Time / Duration / Frequency	Reporting	Implementa-tion	Supervision
Waste Management Monitoring • Minimizing the impacts due to improper disposal of hazardous and general waste	On-site Visual and Compliance Monitoring								
	Improper disposal of hazardous waste lead to land pollution	• Engagement of NEA licensed waste collector for hazardous waste • Record of waste disposal	• Visual monitoring • Compliance check	Entire project site	• Environmental Public Health (Toxic Industrial Wastes) Regulation, 2000	• During entire construction phase	• Monthly Environmental Performance Report	• Contractor/ EMMP In-charge • ECO • QECP	HDB/ SO
	Improper disposal of construction	• Verify implementation of solid waste management plan	• Visual monitoring • Compliance	• Construction waste storage	• Environmental Public Health (General	• During entire construction	• Monthly Environmental Performance	• Contractor/ EMMP In-charge	HDB/ SO

	waste lead to land pollution	• Engagement of NEA licensed general waste collector • Record of waste disposal	check	location • General waste storage location	Waste Collection) Regulation, 2000	phase	Report	• ECO	

6.6 Vector Control Management Plan

6.6.1 Applicable Legislations

- Control of Vectors and Pesticides Act 2002
- NEA guidelines on “Rainwater Collection System and Mosquito Prevention

6.6.2 Identified Impacts and Recommended Mitigation Measures

Identified Impacts	Recommended Mitigation Measures
• Increase in the number of mosquitoes may cause irritation to people residing nearby • Increase in the number of vectors may cause irritation to people residing nearby • Increase in incidence of dengue fever and vector-related diseases (secondary impact)	• Contractor to engage an NEA-registered vector control operator to prepare and implement vector management plan • An in-house vector control team to check construction sites for breeding of mosquitoes • Construction worksite to be kept free of litter; construction wastes shall be disposed promptly into bulk waste containers and the containers shall be emptied daily • Educate residents on household practices to control mosquito breeding • Anti-mosquito oil and insecticides including BTI shall be applied into stagnant water at least once a week. The application should be repeated after rain as the oil and insecticides would be washed away by the rain • Thermal fogging shall not be carried out due to location of project site within forested area • Worksite shall be kept litter-free and refuse bins shall always be covered tightly. • Construction workers’ food provisions shall be stored in rodent-proof rooms or cabinets • In-house vector control team and vector control operator to check for rodent burrows every week • To implement mitigation measures to control mosquito numbers and other vectors • To aid the authorities to investigate outbreaks of vector-borne diseases if required • Any significant increase in numbers of vectors shall be reported to the NEA and investigated.

6.6.3 Monitoring Requirements

Monitoring Category	Impact	Monitoring Parameters	Monitoring Method	Location	Standards / Criteria	Time / Duration / Frequency	Reporting	Implementa-tion	Supervision
Vector Monitoring • Minimizing the impacts due to increase in vector related diseases	<u>On-site Visual and Compliance Monitoring</u>								
	Increase in the Incidence of vectors & related diseases	• Verify implementation of vector control management plan • Engagement of NEA registered vector control operator • Appointment of an in-house vector control team	• Visual monitoring • Compliance check	Entire project site	• Vector control management plan • Control of Vectors and Pesticides Act, 2002	• During entire construction phase	• Monthly Environmental Performance Report	• Contractor/ EMMP In-charge • ECO	HDB/ SO

7 ENVIRONMENTAL MONITORING PLAN

The summary of the proposed Environmental Monitoring Plan is presented below.

It is recommended to review the monitoring plan and locations every quarter to update or adjust the monitoring requirements based on the various site considerations such as work progress, site utilisation, change in work methods, environmental incident, failure of measures etc.

Monitoring Category	Impact	Monitoring Parameters	Monitoring Method	Location	Standards / Criteria	Time / Duration / Frequency	Reporting	Implementa-tion	Supervision
Biodiversity Monitoring • **Avoiding clearance of vegetation outside working boundaries** • **Minimization of disturbance to sensitive species** • **Minimization of disturbance to sensitive habitats** • **Avoiding human wildlife conflict**	On-site Visual and Compliance Monitoring								
	Habitat Loss and Degradation	• Hoarding to be erected prior to vegetation clearance to demarcate working boundaries • Hoarding of at least 4m in height installed around proposed park area (excluding the section along Yishun Avenue 1) • Successful reinstatement of habitats upon work completion where possible • Retain vegetated within future Nature Park	• Visual monitoring • Compliance check • Water quality monitoring	Entire project site (near / within forested area)	• Proper installation of temporary hoarding/ barriers • Absence of vegetation clearance outside working boundaries	Fortnightly during construction phase	Monthly Environmental Performance Report	• Contractor/ EMMP In-charge • Ecologist • Arborist	HDB/ Superintending Officer (SO)
	Species Mortality	• Properly designated Tree Protection Zones (TPZ) prior to construction • Visual inspection of trees and holes for	• Visual monitoring • Compliance check	Entire project site (near / within forested area)	• Proper TPZ installation • Retention of tree health • Absence of mechanical	• Prior to vegetation clearance (for wildlife translocation and fauna	Monthly Environmental Performance Report	• Contractor/ EMMP In-charge • Ecologist • Arborist	HDB/ SO

Monitoring Category	Impact	Monitoring Parameters	Monitoring Method	Location	Standards / Criteria	Time / Duration / Frequency	Reporting	Implementa-tion	Supervisio n
		nesting birds prior to felling • Directional clearance of vegetation • Translocation of identified plant species • Translocation of targeted animal species • Daily checks of ECM nets for entrapped fauna			damage on trees • Absence of nesting birds • Absence of large mammal species • Absence of entrapped fauna	inspection) • Monthly during construction phase • Daily for fauna entrapment			
	Human-wildlife Conflict	• Briefing to on-site workers on dos and don'ts, as well as notes on safety. • Areas are to be demarcated for food consumption and storage.	• Visual monitoring • Compliance check	Entire project site (near forested area)	No injuries due to wild animals	Fortnightly during construction phase	Monthly Environmental Performance Report	• Contractor/ EMMP In-charge • Ecologist	HDB/ SO
Noise Monitoring • **Minimization of biodiversity disturbance due to construction noise** • **Minimization of nuisances to human due to construction noise**	<u>On-site Visual and Compliance Monitoring</u>								
	Disturbance to biodiversity and human due to construction noise	• Noise barriers around construction work areas • Utilization of quieter equipment and vehicles with low noise levels • PPE use by construction personnel at all times while on the construction site	• Visual monitoring • Compliance check	Entire project site	Environmental Protection and Management (Control of Noise at Construction Sites) 2008	Monthly during entire construction phase	Monthly Environmental Performance Report	• Contractor/ EMMP In-charge • ECO	HDB/ SO
	<u>On-site Noise Monitoring</u>								
	Noise	• Leq 12 hrs	Sound level	Entire project	Environmental	• Continuous	Monthly	• Contractor/	HDB/ SO

Monitoring Category	Impact	Monitoring Parameters	Monitoring Method	Location	Standards / Criteria	Time / Duration / Frequency	Reporting	Implementa-tion	Supervision
	generated from construction work	• Leq 1 hr • Leq 5 mins	meter	site	Protection and Management (Control of Noise at Construction Sites) 2008	(24x7) boundary noise monitoring • During entire construction phase	Environmental Performance Report	EMMP In-charge • ECO	
Water Quality Monitoring • **Minimization of impact to waterbodies due to contaminated site run-off** • **Minimization of impact to terrestrial habitats due to erosion of topsoil**	<u>On-site Visual and Compliance Monitoring</u>								
	ECM non-compliance	• Verify implementation of ECM Plan • Perimeter cut-off drains, perimeter silt fence, silt traps, sedimentation basin and silt treatment system	• Visual monitoring • Compliance check • ECM checklist	Construction area with earthworks	• ECM Plan designed by a Qualified Erosion Control Professional (QECP)	• Daily compliance monitoring • During entire construction phase	• Monthly Environmental Performance Report	• Contractor/ EMMP In-charge • ECO • QECP	HDB/ SO
	<u>On-site Water Quality Monitoring</u>								
	ECM discharge (sediment runoff)	Total Suspended Solids (TSS)	Implementation of TSS monitor and CCTV including a Silty Imagery Detection System (SIDS)	Final ECM discharge points	• Less than 50 mg/L for TSS • Sewerage and Drainage (Surface Water Drainage) Regulation 2007	Real-time continuous during entire construction phase	• TSS report • Monthly Environmental Performance Report	• Contractor/ EMMP In-charge • ECO	HDB/ SO

Monitoring Category	Impact	Monitoring Parameters	Monitoring Method	Location	Standards / Criteria	Time / Duration / Frequency	Reporting	Implementa-tion	Supervision
	Contamination of water resources through trade effluent discharge	• All parameters identified in EPM (Trade Effluent) Regulations for Controlled Watercourse • Additional parameters: Aluminium, Conductivity, Turbidity, Total nitrogen, Total phosphorous, Total organic carbon, Ammonia, Enterococcus	Ex-situ monitoring	At every discharge outlet	EPM (Trade Effluent) Regulations for Controlled Watercourse	Monthly during construction phase	Monthly Environmental Performance Report	• Contractor/ EMMP In-charge • ECO	HDB/ SO
	Degradation of stream habitat (Construction stage monitoring)	All parameters identified in EPM (Trade Effluent) Regulations for Controlled Watercourse	In-situ and ex-situ monitoring	Same locations as per baseline surveys at Stream during construction phase	• EPM (Trade Effluent) Regulations for Controlled Watercourse • Baseline results	Monthly during construction phase	Monthly Environmental Performance Report	• Contractor/ EMMP In-charge • ECO	HDB/ SO
Air Quality Monitoring • **Minimization of human health & biodiversity impacts due to dust pollution** • **Minimization of human health impacts due to exhaust**	<u>On-site Visual and Compliance Monitoring</u>								
	Fugitive dust emissions	• Verify implementation of dust suppression plan • Watering to reduce dust emissions from exposed areas • Washing bay • Implementation of vehicular speed limit • Covered stockpiles • Use of PPE (face mask) by construction personnel	• Visual monitoring • Compliance check	All construction areas	Approved dust suppression plan	During entire construction phase	Monthly Environmental Performance Report	Contractor/ EMMP In-charge	HDB/ SO

Monitoring Category	Impact	Monitoring Parameters	Monitoring Method	Location	Standards / Criteria	Time / Duration / Frequency	Reporting	Implementa-tion	Supervision
emissions	Exhaust emission from construction machineries operations	Maintenance frequency of vehicles and machineries	• Visual monitoring • Compliance check	All construction areas	No visible exhaust plume, dark smoke etc.	During entire construction phase	Monthly Environmental Performance Report	Contractor/ EMMP In-charge	HDB/ SO
	<u>On-site Air Quality Monitoring</u>								
	Particulate matter emission from construction activities	$PM_{2.5}$ and PM_{10}	Air monitoring equipment (e.g., USEPA FRM/FEM equipment[1])	Entire project site	Singapore Ambient Air Quality Targets	• 24hr (1 day) continuous monitoring • Once a Month (When most of the dust-generating activities are conducted)	Monthly Environmental Performance Report	Contractor/ EMMP In-charge	HDB/ SO
Light Impact Monitoring • **Minimization of light pollution impacts on ecological processes**	<u>On-site Visual and Compliance Monitoring</u>								
	Light pollution affecting sensitive species	• No nightworks • Appropriate positioning of lights • Turn off all unnecessary lights outside working hours • Hoarding of at least 4m in height installed around proposed park area (excluding the section along Yishun Avenue 1)	• Visual monitoring • Compliance check	Entire project site (near forested area)	• Absence of nightworks • All artificial lights to be downward facing, turned away from forested areas	During entire construction phase	Monthly Environmental Performance Report	• Contractor/ EMMP In-charge • Ecologist	HDB/ SO
Vector Monitoring	<u>On-site Visual and Compliance Monitoring</u>								

Monitoring Category	Impact	Monitoring Parameters	Monitoring Method	Location	Standards / Criteria	Time / Duration / Frequency	Reporting	Implementa-tion	Supervision
• **Minimizing the impacts due to increase in vector related diseases**	Increase in the Incidence of vectors & related diseases	• Verify implementation of vector control management plan • Engagement of NEA registered vector control operator • Appointment of an in-house vector control team	• Visual monitoring • Compliance check	Entire project site	• Vector control management plan • Control of Vectors and Pesticides Act, 2002	During entire construction phase	Monthly Environmental Performance Report	• Contractor/ EMMP In-charge • ECO	HDB/ SO
Waste Management Monitoring • **Minimizing the impacts due to improper disposal of hazardous and general waste**	<u>On-site Visual and Compliance Monitoring</u>								
	Improper disposal of hazardous waste leading to land pollution	• Engagement of NEA licensed waste collector for hazardous waste • Record of waste disposal	• Visual monitoring • Compliance check	Entire project site	Environmental Public Health (Toxic Industrial Wastes) Regulation, 2000	During entire construction phase	Monthly Environmental Performance Report	• Contractor/ EMMP In-charge • ECO • QECP	HDB/ SO
	Improper disposal of construction waste leading to land pollution	• Verify implementation of solid waste management plan • Engagement of NEA licensed general waste collector • Record of waste disposal	• Visual monitoring • Compliance check	• Construction waste storage location • General waste storage location	Environmental Public Health (General Waste Collection) Regulation, 2000	During entire construction phase	Monthly Environmental Performance Report	• Contractor/ EMMP In-charge • ECO	HDB/ SO

[1] It is recommended that air quality monitoring be conducted using a USEPA FRM/FEM equipment. The list of designated reference and equivalent methods can be found at https://www.epa.gov/system/files/documents/202206/designated_reference_and_equivalent_methods_-_06152022.pdf. If a non-USEPA FRM/FEM equipment is used, the Monthly Environmental Performance Report is to include information on the co-location or calibration carried out with a USEPA FRM/FEM equipment to ensure the equipment's performance prior to deployment at the project site.

8 EMMP REPORTING

8.1 Site Environmental Control Report by Environmental Control Officer

As per Code of Practice for Environmental Control Officers for Construction Sites, ECO shall prepare the Site Environmental Control Programme before work commences at the worksite. Further, ECO shall submit the Site Environmental Control Report (SECR) to Project Manager covering assessment of the environmental efforts carried out and review the effectiveness of these measures.

The ECO shall inspect the construction activities regularly and routinely to ensure that the appropriate environmental protection and pollution control mitigation measures are properly and timely implemented based on the EMMP's recommendations. ECO shall record all observations and actions taken to report them in the SECR. This SECR should form part of EMMP monthly performance report described in next section.

8.2 Monthly Environmental Performance Report

A monthly Environmental Performance Report is to be prepared by EMMP In-charge in assistance with EMMP Team and to be submitted to SO, project management team, PUB, NParks, and other relevant authorities. The Performance Report is to include the description of the project activities being carried out at site during the month and status of implementation of EMMP including information on environmental incidence if any. Table 8.1 provides the reporting framework.

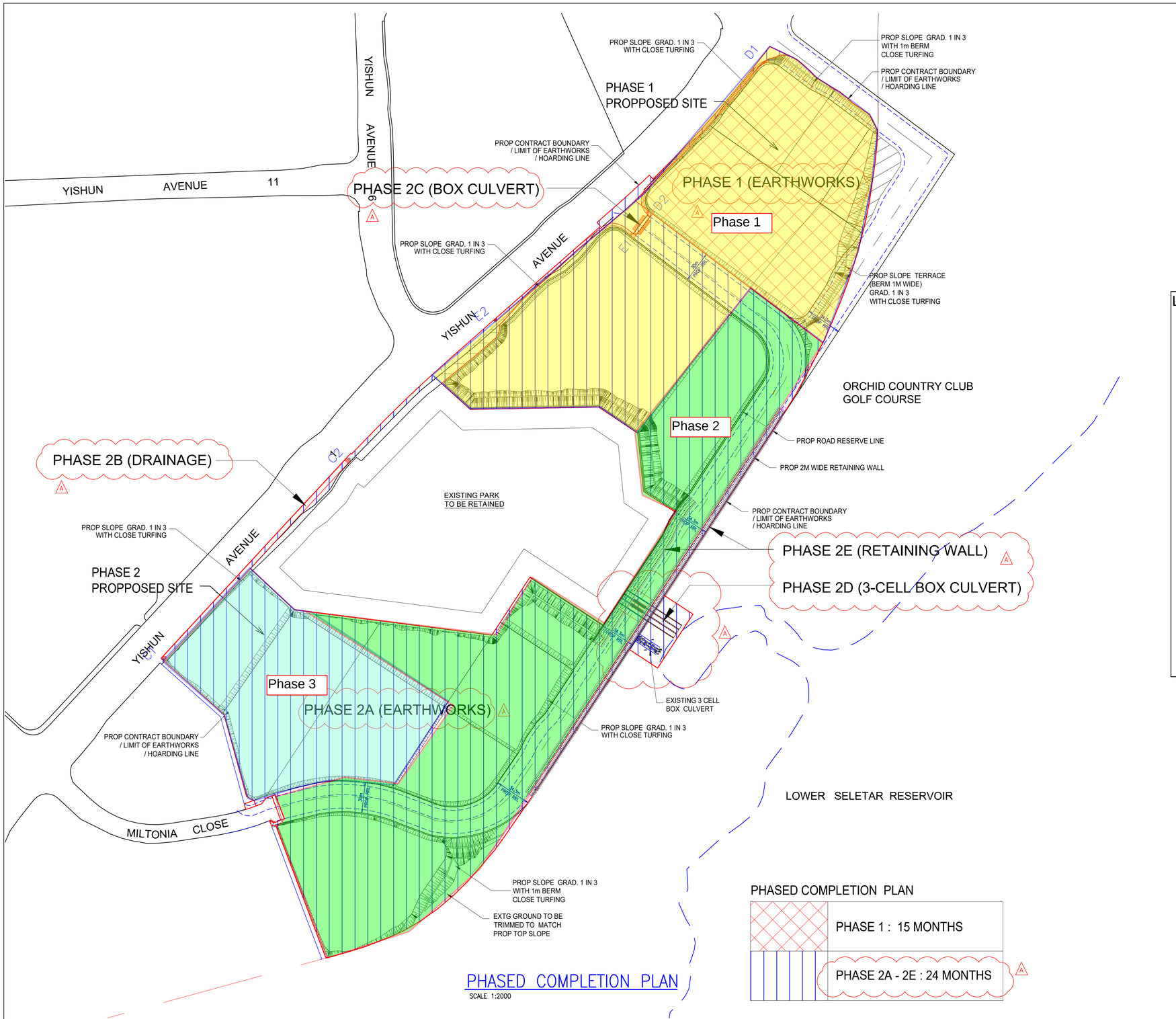
Table 8.1. Monthly Environmental Performance Report framework

Sr. No.	Item	Description
1.	Project Status	Update on project activities within project area
2.	EMMP Implementation Status	Daily observations and actions taken, ECO report, ECM performance checklist, Biodiversity specialists' observations and recommendations, Physical monitoring results (Noise, Air, Surface water quality, ECM discharge) and assessment, Vector control report, Waste disposal record
3.	Environmental Awareness Training	Record of periodic biodiversity awareness training/ toolbox briefings
4.	Environmental Incidence	Environmental Incident report and corrective actions, public feedback & response
5.	Authority Inspection & Findings	Record of Authority inspection visits (i.e., NParks, NEA, PUB) and corrective actions

8.3 Environmental Close-off Report

A final environmental close-off report should be prepared after construction work is completed to confirm that no residual impacts are observed.

APPENDIX A – OVERALL SITE PLAN

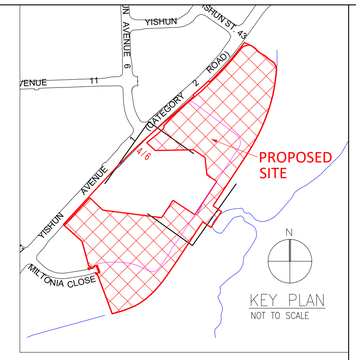


PHASED COMPLETION PLAN

SCALE 1:2000

PHASED COMPLETION PLAN

	PHASE 1 : 15 MONTHS
	PHASE 2A - 2E : 24 MONTHS



Legend:

- Phase 1
- Phase 2
- Phase 3

CORRIGENDUM 2

CLIENT

HOUSING & DEVELOPMENT BOARD

HDB Hub 480 Lorong 6 Toa Payoh
Singapore 310480
CLIENT SIGNATURE:

DRAWING NO. HB-F2011-CE-004 | REVISION : A

PROJECT TITLE

EARTHWORKS AT YISHUN PROJECT 2

LOT NO. : 03857W, 02600M | TS NO. : 19

JOB TITLE

EARTHWORKS AT YISHUN PROJECT 2

DRAWING TITLE

PHASE COMPLETION PLAN

SCALE: 1:2000 | DATE: APRIL 2022

DRAWN & CHECKED BY: PY/LMN

N

NOTES:
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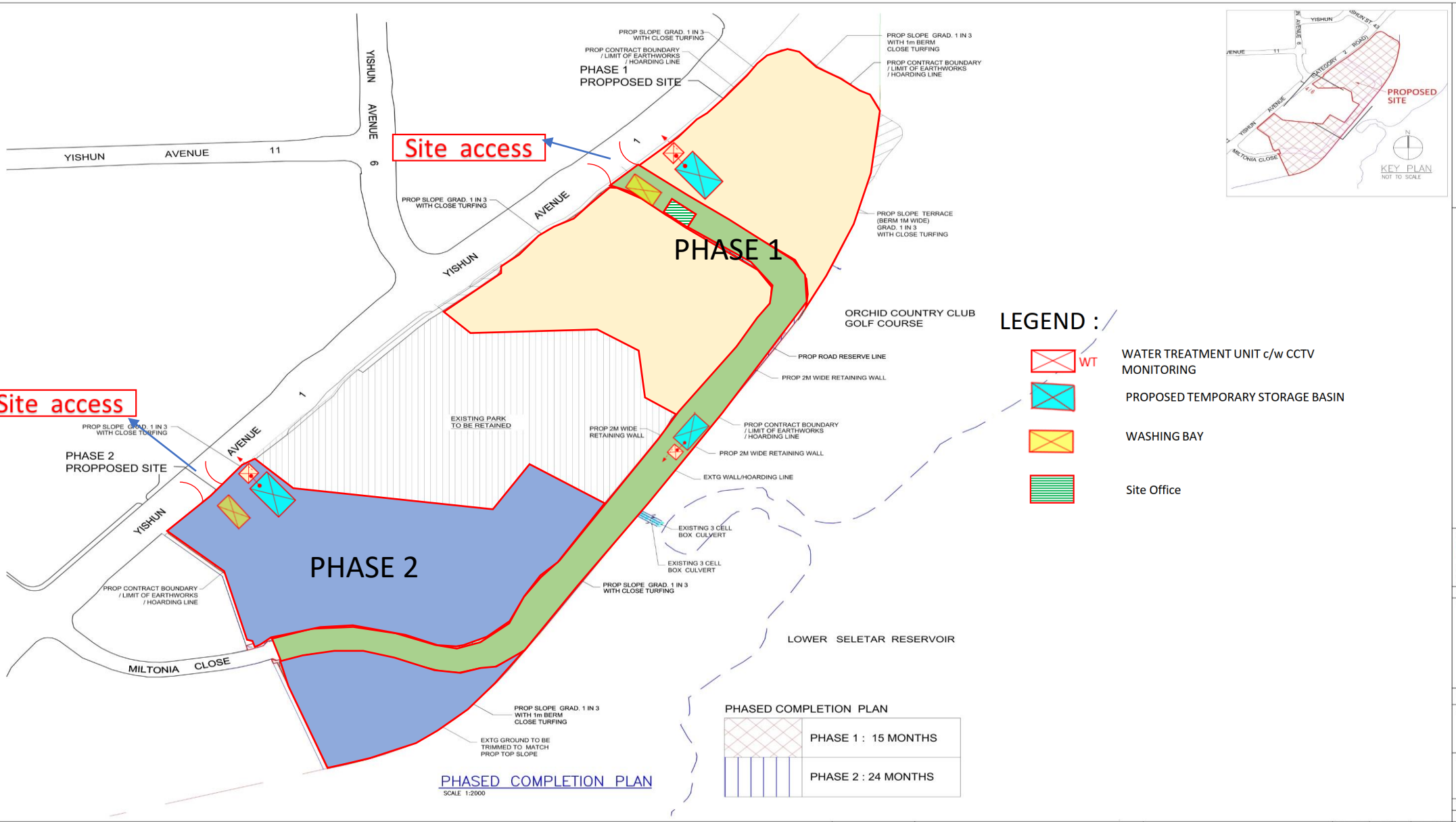
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DESIGN ENGINEER

Er. KHOO TOU KHIANG
QUALIFIED PERSON

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APPENDIX B – SITE UTILIZATION PLAN



LEGEND :

- WT — WATER TREATMENT UNIT c/w CCTV MONITORING
- PROPOSED TEMPORARY STORAGE BASIN
- WASHING BAY
- Site Office

PHASED COMPLETION PLAN

PHASE 1 : 15 MONTHS	
PHASE 2 : 24 MONTHS	

TENDER DRAWING

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PROJECT TITLE
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JOB TITLE
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DRAWING TITLE
PHASE COMPLETION PLAN

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QUALIFIED PERSON

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APPENDIX C – WILDLIFE / FAUNA INCIDENT FORM

WILDLIFE INCIDENT FORM

Part A – Wildlife Incident Details

The CEMMP In-charge is to complete the Form and submit to PM within 24 hours of reporting incident. Note:

Reference No. (by CEMMP In-charge)			
Personnel	**Reporting Person**	**Witness**	
Name:			
Contact Number:			
Title / Company:			
Time / Date of Wildlife Encounter	**Date**	**Time**	
Affected Area			
Weather:	☐ Clear	☐ Overcast	☐ Thunderstorm
	☐ Sunny	☐ Others (To Describe):	
Actual Location:			
Description of Area:	☐ Vegetated area	☐ Non-vegetated area	
	☐ Excavated area	☐ Others (to describe):	
Activities Carried Out Nearby at Time of Incident:	If there are no active works near wildlife encountered, please state so.		

Details of Animal			
Animal:	Where identifiable, please provide [Common Name (Scientific Name)] If animal cannot be identified, carcass to be described to the best of ability.		
Animal Condition:	☐ Active	☐ Outwardly injured (e.g. bleeding, limping)	☐ Flattened
	☐ Stationary	☐ Decomposed	☐ Trapped
	☐ Others (to describe):		
Photographs:	1) Close-up of Animal ☐ No Close-up available Please provide reason here if close-up photographs could not be obtained, e.g. unsafe to approach		
	2) Animal with surroundings or showing full width of road (if roadkill), indicating where the animal is.		
	☐ No photographs available. Reason: e.g. animal moved away too quickly		

Incident Details	
Incident Summary: To be filled by reporting party	Briefly describe when, what, who, where and how the incident happened. *Sample incident summary:* *[Personnel] was conducting [activity] on [date/time] when he observed an [animal] at [location]. The animal was observed to be [condition]. [Personnel] reported the incident to [contractor representative] who contacted the WMO. While awaiting wildlife response, [contractor] barricaded the area and continued monitoring for movement of animal.* If EMMP Specialist (Fauna) visited site: Recommended actions
Follow-up Actions: To be filled by CEMMP In-charge	☐ Animal rescued to NParks Shelter ☐ Immediate relocation ☐ Carcass transported to disposal location ☐ Others:_____
	☐ No Action Taken by CEMMP In-charge

Part B – Closure of Incident

Possible Causes What is/are the possible cause/s of the incident? (Man / Machine / Management / Medium / Mission)		
Preventive/Corrective Actions To be filled by CEMMP In-charge	**Close-up** To be filled by reporting party	
1)	Close-up Action.	Close-up Date
2)		Close-up Date

Closure of Incident Report	
Date of Closure of Incident Report:	
Acknowledged by PM (Name/Title):	

ANNEX 1 – ENVIRONMENTAL IMPACT ASSESSMENT

Intended for
Housing & Development Board

Document type
TAC/22029/EIA/RT02

Date
8 March 2023

SPECIALIST CONSULTANCY SERVICES AT HDB DEVELOPMENT (YISHUN-MILTONIA)

Environmental Impact Assessment Report



Submitted by

TEMBUSU
Asia

Description **Environmental Impact Assessment Report for Specialist Consultancy Services at HDB Development (Yishun-Miltonia)**

Project Ref **TAC/22029**

Rev No	Date	Description	Prepared by	Checked by	Approved by
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ABBREVIATIONS

Abbreviation	Definition
$\mu g/m^3$	microgram per cubic meter
ARI	Average Recurrence Interval
ASR	Air Sensitive Receptor
BMP	Best Management Practices
CO	carbon monoxide
COP	Code of Practice
Cult.	cultivated
dB(A)	A-weighted decibel
ECM	Earth Control Measure
ECMO	Earth Control Measure Officer
ECO	Environmental Control Officer
EIA/S	Environmental Impact Assessment/Study
EMMP	Environmental Management and Monitoring Plan
EPH	Environmental Public Health
EPHA	Environmental Public Health Act
EPM	Environmental Protection and Management
EPMA	Environmental Protection and Management Act
ERSS	Earth Retaining Stabilizing Systems
FM	Frequency Modulated
GPS	Global Positioning System
HDB	Housing & Development Board
ha	Hectors
hp	Horsepower
hr	hour
ISA	International Society of Arboriculture
ITT	Invitation to Tender
IUCN	International Union for the Conservation of Nature
kHz	kilohertz
km	kilometre
kVA	Kilovolt-amps
LA_{eq}	equivalent continuous A-weighted sound power level
Leq	equivalent continuous noise level
m	meter
m^2	meter square
mg/L	milligram per litre
mg/m^3	milligram per cubic meter
mgd	million gallon per day
mins	minutes
ms	milliseconds
NSR	Noise Sensitive Receptor
NMP	Noise Management Plan
MND	Ministry of National Development

Abbreviation	Definition
MPA	Maritime and Port Authority of Singapore
NEA	National Environment Agency
n.d.	no date
NO_2	nitrogen dioxide
NParks	National Parks Board
PAR	Photosynthetic Active Radiation
PCN	Park Connector Network
PM_{10}	particulate matter with diameter ≤ 10 micrometres
$PM_{2.5}$	particulate matter with diameter ≤ 2.5 micrometres
ppb	parts per billion
PPE	Personal Protective Equipment
ppm	parts per million
PSI	Pollutant Standards Index
PUB	Public Utilities Board
QECP	Qualified Erosion Control Professional
RFP	Request for Proposal
s	seconds
SS	Singapore Standards
SSO	Singapore Statutes Online
SJ	Surbana Jurong Consultants Pte Ltd
t	Tonnes
TAC	TEMBUSU Asia Consulting Pte Ltd
TIW	Toxic Industrial Waste
TPZ	Tree Protection Zone
TSS	Total Suspended Solid
TWPS	Treated Water Pumping Station
URA	Urban Redevelopment Authority
US EPA	United States Environmental Protection Agency
VSR	Vibration Sensitive Receptor
WHO	World Health Organisation

GLOSSARY

Abundance: The number of a single species recorded at any given time period or location.

Biodiversity: The variety of plant and animal life in the world, habitat or location, a high level of which is usually considered to be important and desirable. Biodiversity can be assessed at more focused taxonomic groups such as “bird biodiversity”, in which case it is interchangeably with “diversity”.

Conservation Status: A status given to a species that is threatened with becoming extinct either locally or globally. These species may be restricted to only a small area, show noticeable decline in abundance over time, or have a historically low global population size. Assessments can be made either at global level under the IUCN’s Red List of Threatened Species or at national level (e.g., Singapore’s Red Data Book of Threatened Plants and Animals).

Ecology: The pattern of relations between organisms and their environment.

Edge Effect: The effect of an abrupt transition between two quite different adjoining ecological communities on the numbers and kinds of organisms in the marginal habitat

Fauna: Referring to all animal life present in an area. Animals are defined as any species from the Kingdom Animalia.

Flora: Referring to all plant life present in an area. Plants are defined as any species from the Kingdom Plantae.

Genus: A taxonomic group above species. A genus consists of closely related species. For example, Grey Heron and Purple Heron are closely related species in the same genus *Ardea*, hence their scientific names are *Ardea cinerea* and *Ardea purpurea* respectively.

Habitat: The natural home or environment of an animal, plant, or other organisms.

Herpetofauna: A taxonomic sub-group that includes amphibians and reptiles.

Impact: Any positive or negative alteration of existing conditions caused directly or indirectly by the project.

kHz (kilohertz): A measure of frequency equivalent to 1,000 cycles per second. Human hearing may extend up to 20 kHz. Most bat calls are beyond 20 kHz, extending locally up to 245 in the case of *Kerivoula hardwickii*.

Microclimate: Local atmospheric zone where the climate differs from the surrounding area.

Mitigation Measure: Means to prevent, reduce, or control negative environmental effects of a project, and repair any damage to the environment caused by those effects through replacement, restoration, compensation, or any other means.

ms (milliseconds): 1/1000 of a second. Duration of individual bat pulses typically range from 2 ms, in some species of *Myotis*, to more than 50 ms, in some local emballonurids such as *Saccolaimus saccolaimus*.

Odonates: A taxonomic sub-group of Insects that includes dragonflies and damselflies.

Population: The term population can be in reference to the total number of a species found in a given area (e.g., global population, or Singapore population). It is also used as a term to define distinct sub-sets of a species based on the level of inter-mixing. For example, an island may hold two populations of a species if there are two groups of the same species present and those groups are sufficiently prevented (geographically or behaviourally) from mixing, forming separate breeding populations.

Species: The standard classification of living organisms. It is defined as a group of living organisms consisting of similar individuals capable of exchanging genes or interbreeding. It is represented by the second word of the scientific name of an organism. For example, the scientific name of a long-tailed macaque is *Macaca fascicularis*, where *fascicularis* is its species name.

Taxa: In reference to a specific taxonomic group. In order of specificity, the taxonomic groups are Kingdom, Phylum, Class, Order, Family, Genus, Species.

Transect: A predefined line or belt along which observations and/or measurements are taken.

EXECUTIVE SUMMARY

The Housing & Development Board (HDB) is developing a new residential estate in Yishun. The development is located within a vegetated area with several habitat types. Although the project site has a history of land clearance and currently consists of a large proportion of non-native flora species, the habitats within this forest are important refuges for fauna species. Additionally, the site has been identified as part of the Khatib Nature Corridor through NParks' Ecological Profiling Exercise, connecting Central Catchment Nature Reserve to Khatib Bongsu for Wildlife.

This EIA report aims to provide an updated baseline assessment of the project site, validate the previous impact assessment conducted, for the site based on updated project information, and recommend appropriate mitigation measures to reduce the residual impacts to acceptable levels. The potential impacts on the following environmental aspects have been considered in this assessment:

- Biodiversity
- Noise
- Hydrology & Water Quality
- Ambient Air Quality
- Vibration
- Light
- Waste Management
- Vector Control

Overall, environmental impacts from this development project are expected from activities associated with vegetation clearance and earthworks during the construction phase, which may impact flora and fauna within and around the site, as well as the human receptors around the site. During the operation phase, main impacts are those associated with increase in human presence as well as changes in the natural landscape of the site. These impacts are of negligible to major levels. With the diligent implementation of mitigation measures, these impacts can be reduced to mostly moderate levels and lower, with some unavoidable major impacts such as habitat clearance.

The main findings of each environmental aspect studied has been summarised as follows.

Biodiversity

The project site is located in Yishun and falls within the Khatib Nature Corridor. Current baseline surveys supplemented previous field data from surveys published in 2021. Field survey methodologies included modified gentry plots for flora, visual fauna transects, camera trapping, netting, and trapping of aquatic fauna, and acoustic bat recording.

Floristically, a total of 229 species were observed. The most prevalent habitat type consisted of abandoned kampung vegetation, followed by scrubland habitat. Some patches, including the proposed nature park area, also included swampy herbaceous areas, which provided habitat for specialized freshwater species. There were some species of conservation value, including the elephant fern (*Angiopteris evecta*), long-leaved beautyberry (*Callicarpa*

longifolia), and sea-shore ardisia (*Ardisia elliptica*). Additionally, Albizia (*Falcataria falcata*) trees within the project site, while not native, provided suitable habitat for animals, particularly nesting raptors and other birds. In terms of fauna, the main species of conservation value were birds, given lack of direct connectivity between this forested site and other forested sites around Singapore. 224 flora species and 179 fauna species (birds, mammals, reptiles, amphibians, butterflies, odonates, freshwater fish, and molluscs) within the project study area. There were several threatened species across taxonomic groups, including the straw-headed Bulbul (*Pycnonotus zeylanicus*), the buffy fish owl (*Ketupa ketupu*), and the *Pila scutata* apple snail. The previous surveys also found the red-tailed pipesnake (*Cylindrophis ruffus*), a rare snake species in Singapore. Many of these threatened species, including the red-tailed pipesnake, depend on specific habitat requirements for their continued survival. The forest provides suitable condition for birds to nest, such as the locally Endangered changeable hawk-eagle (*Nisaetus cirrhatus*).

Impacts from project activities may have undesirable impacts to biodiversity, especially to species of conservation value found within and around the project site. With the implementation of appropriate mitigation measures, including the erection of hoarding around the site, salvaging of plants and translocation of fauna, and measures to avoid human-wildlife conflict, it is expected that any such impacts will be reduced to mostly moderate levels and below, with a few unavoidable major impacts (such as habitat clearance).

Hydrology & Water Quality

The project site is located within the Lower Seletar Reservoir Catchment Area. There is one main stream flowing across the project site. In general, the surface water quality of these stream complied with the applicable standards except for the Dissolved Oxygen, Total Suspended Solids and Ammoniacal Nitrogen. Possible impacts from the construction phase includes disturbances to local hydrological pattern due to the construction of the proposed new culvert drain and impact to water quality due to sediment runoff and trade effluent discharge. Recommended mitigation measures – such as properly implementing Earth Control Measures (ECMs) and managing trade effluent/sewage discharge – will help to reduce the impact on water quality of project area.

HDB has catered for the stream to be retained as it is within the proposed nature park area. The main source of flow within the stream is from the upstream area from the overflow from roads. By ensuring that upcoming box culvert drainage on this site does not alter the flow and water quality of the stream during the construction of the project, the impacts on the marshland are likely to be minimal.

Noise

As the project site is vegetated, it is inhabited by various fauna species which may be sensitive to noise. There are sensitive human receptors situated within the project study area. A seven-day continuous (24x7) noise monitoring was carried out at four locations, which established that baseline noise levels generally complied with Singapore's noise regulations. It is anticipated that the main noise sources during the construction phase will be associated with vehicle movements, high-impact stationary, and mobile equipment. The overall impact of noise on the sensitive receptors has been assessed as moderate and can be further reduced to minor and below if the recommended noise mitigation measures were implemented.

Ambient Air Quality

A seven-day continuous (24x7) air monitoring was carried out at three locations to establish baseline air quality levels. The baseline air quality levels are within Singapore's air quality targets and project study area enjoys good air quality. There are sensitive human receptors within project study area. The air quality will potentially be affected by activities associated with construction of treatment units, especially from an increase in airborne particulates and heavy-vehicle exhaust emissions. Mitigation measures are recommended to reduce the direct impact on local air quality to minor levels and below.

Vibration

Currently there are no major sources of vibration within project study area. Main vibration sources include mainly vehicular traffic along Yishun Avenue 1. Baseline monitoring was carried out at four locations to establish baseline vibration levels. There are sensitive receptors located adjacent to project study area, including animals in forested areas and humans in the nearby premises. The overall impact of vibration has been assessed as moderate and can be further reduced to minor through the recommended mitigation measures including the use of equipment or methods which generate lower vibration levels.

Light

Impacts of light pollution during the construction period may take place, but such impacts are expected to be minor. Additionally, there is moderate baseline light levels from the streetlights surrounding the project site. Nonetheless, mitigation measures such as the appropriate positioning of artificial lights during the construction phase and appropriate design of lights for operational phase are recommended to further reduce the impacts of light pollution.

Waste Management

It is anticipated that the main sources of waste during construction phase will be from cut vegetation, excavated material, general construction waste, personal waste and/or hazardous waste. During the operation stage of the project, waste generated is likely to be household waste. With the implementation of the mitigation measures proposed – such as implementing a waste management plan, reusing timber wastes for wood industry, properly disposing the waste through licensed collectors, including animal-proof binds, and educational measures – any negative impact is expected to be reduced to an acceptable level.

Vector Control

The primary impact of the construction phase of the project is the potential increase in the immediate vector population. Secondary to this, an increase in the number of vectors has the potential to increase the likelihood of vector-borne diseases affecting humans. Key mitigation measures include source reduction and effective drainage through implementation of vector control plan. With its implementation, it is expected that these impacts can be reduced to an insignificant level. Considering the sensitive nature of forested area, fogging is not recommended to be carried out as part of vector control measures.

An Environmental Management and Monitoring Plan (EMMP) has been proposed to manage the identified environmental impacts during construction phase. It also includes environmental monitoring requirements containing on-site visual compliance monitoring and physical

monitoring which will help to verify the effective implementation of mitigation measures during construction stage. A construction EMMP will be developed based on the recommended EMMP framework in this EIA report. This will be strictly implemented throughout the construction phase to ensure the development of this project in environmentally sensitive manner.

1. INTRODUCTION

The Housing & Development Board (HDB) is developing future residential infrastructure in the Yishun Neighbourhood 5 (Miltonia) area. The development area is located within a vegetated area consisting of young secondary forest and abandoned-land forest, with pockets of scrubland and herbaceous vegetation and farmland.

The area was identified as part of the Khatib Nature Corridor under the Ecological Profiling Exercise conducted by the National Parks Board (NParks) due to its role in the wider context of ecological connectivity in Singapore. It provides linkage between forested areas in northern and central Singapore, allowing fauna species to travel between these areas. Due to the ecological importance of the site, 6.4ha of the existing area will be safeguarded as a Nature Park, to provide a stepping-stone habitat between the Khatib Bongsu Nature Park and the Central Catchment Nature Reserve.

In order to ensure that negative impacts to the natural environment is kept to a minimum, HDB requires environmental consultancy services to be conducted, which includes updating and validating the existing Environmental Baseline Study (EBS), a validation of the Impact Assessment (IA) previously conducted for the site and framing the Environmental Management and Monitoring Plan (EMMP). The EMMP will be implemented during all stages of the construction period.

TEMBUSU Asia Consulting Pte Ltd ("TAC") was commissioned by HDB to provide the environmental consultancy services for this project.

1.1. Objectives of the Environmental Impact Assessment Report

This EIA study was undertaken for the development works on the natural environment.

The principal objective of the EIA study is to validate the findings of the previous Environmental Impact Study (EIS) conducted by AECOM in 2021. This will help provide clear and concise technical information for decision-making on potential environmental impacts associated with the proposed work activities.

The key objectives of this EIA study are to:

- Update the environmental baseline through the collection of primary and secondary data and validate the environmental baseline study conducted by AECOM (2021).
- Validate the findings of the impact assessment conducted by AECOM (2022) during the construction and operational phases of the project on the environment.
- Present appropriate mitigation measures to reduce the level of impact for each activity assessed that has a moderate to major impact.
- Recommend an environmental management framework to monitor the mitigation measures implementation.

It is understood that the information presented in this updated EIA report will contribute to decisions on:

- The overall acceptability of any adverse environmental consequences that are

likely to arise due to the proposed construction of the Miltonia development.
- The conditions and requirements for the construction of the Miltonia development to mitigate adverse environmental consequences whenever practicable; and
- The acceptability of residual impacts after the proposed mitigation measures are implemented.

The undertaking of the EIA study will therefore promote environmentally sound and sustainable development.

1.2. Report Structure

The EIA report is structured as follows:

- Chapter 1 introduces the project background and the general information of the EIA, covering its objectives, report structure, and limitations.
- Chapter 2 provides the description of the proposed project, and activities associated with the proposed project.
- Chapter 3 outlines the EIA approach, including its scope and impact assessment methodology that is applied in the preparation of this report.
- Chapter 4 presents the assessment of environmental impacts on biodiversity and its proposed mitigation measures.
- Chapter 5 discusses the noise impacts and proposes the mitigation measures.
- Chapter 6 describes the hydrology and water quality of the project study area and provides the impacts and mitigation measures.
- Chapter 7 provides a description of the ambient air quality impacts of the project and proposes the mitigation measures.
- Chapter 8 discusses the impacts from ground-borne vibration and proposes the mitigation measures.
- Chapter 9 discusses the impacts from light pollution and proposes the mitigation measures.
- Chapter 10 discusses the waste impacts and proposes the mitigation measures.
- Chapter 11 details the vector control assessment and mitigation requirements.
- Chapter 12 outlines the proposed the Environmental Management and Monitoring Plan (EMMP) framework.
- Chapter 13 lists the references used in the report.

1.3. Limitations of the EIA Report

The EIA study is conducted as per the requirements specified by HDB in the Invitation to Tender (ITT), and outcome of consultancy with Technical Agencies. The extent of collection of baseline data is guided by these requirements.

In preparing this report, we relied, in whole or in part, on data and information provided by HDB, Surbana Jurong (SJ), and third parties, which have been assumed to be accurate, complete, and reliable as of the time of writing.

2. PROJECT OVERVIEW

2.1. Project Background

Given the increasing demand for housing, long-term planning and construction of new residential estates are keys to ensure sufficient supply for home buyers. HDB is planning to develop a housing estate in Yishun, within an area measuring about 27 ha. There are also plans to retain a portion of the vegetated area as a nature park within the development.

As part of these works, environmental consultancy services are required, including validating and updating Environmental Baseline Study (EBS), conducting an Environmental Impact Assessments (IAs), and framing the Environmental Management and Monitoring Plan (EMMP) as part of the Environmental Impact Assessment (EIA) process. The EMMP will also be implemented during the construction stage.

An Environmental Baseline Study (EBS) was previously carried out by AECOM (2021) as part of "Specialist Consultancy Services for Environmental Baseline Study at Yishun Neighbourhood 5 (Miltonia)" study.

2.2. Project Location

The project site is located in the north of Singapore, near Orchid Country Club and Lower Seletar Reservoir. It is bounded by Yishun Avenue 1 to the north and northwest, Skies Miltonia and The Miltonia Residences condominium complexes to the southwest, and Orchid Country Club golf courses to the east.

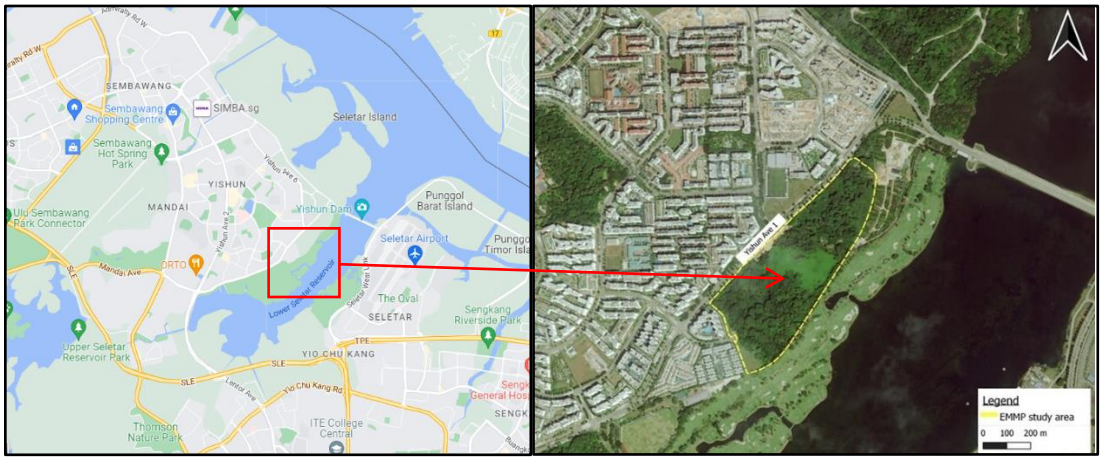


Figure 2.1 Project location plan

This study site is large (27 ha) and densely vegetated, serving as an ecological connection to the Central Catchment Nature Reserve through Lower Seletar Reservoir Park, Springleaf Park Connector and Springleaf Nature Park. It is situated about 400 m from Khatib Bongsu Park Connector, which connects the existing Yishun Park to the upcoming Khatib Bongsu Nature Park (40 ha park, north of Singapore with rich mangrove and mudflat habitat). From the southeast, the study area is in proximity of the Lower Seletar Reservoir.

2.3. Historical Land Use

Before the British arrived in 1819, most of Singapore was covered by primary lowland dipterocarp forest, mangrove forest and freshwater swamp forest (Corlett, 1991). Mangrove forest was common in the areas of tidal influence, both around the coast and in estuaries, as also shown on the 1873 historical map of the Seletar area (Figure 2.2Figure 2.2). In 1885, following colonization, large areas of Singapore were cleared for agriculture, however the study area avoided this conversion and remained a forested patch (AECOM, 2021)

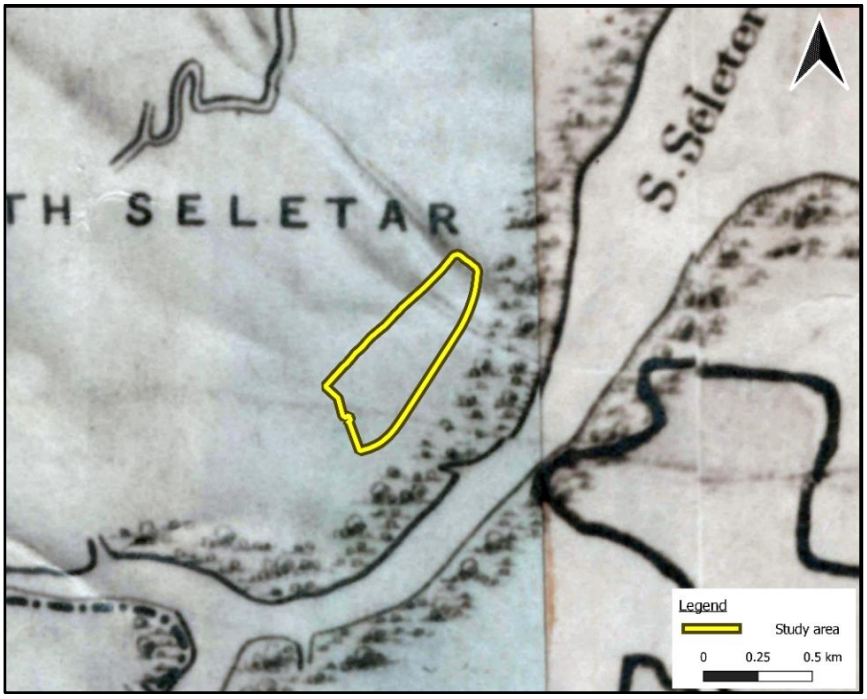


Figure 2.2 Historical map from 1873, obtained from https://libmaps.nus.edu.sg

In 1911, the Crown lands on the north and south banks of Sungei Seletar were proposed by Lim Nee Soon, the major landholder and community leader in Seletar district of the time, to be converted into farms to cope with the food shortage faced by Singapore's growing population (O'Dempsey T, 2014). The vegetation in the larger Seleter area consisted of rubber, coconut cultivations, orchards and nearer to the coast, mangroves. The map of the of study area from 1945 shows that during this time the study site was mostly covered by rubber and partly by mangrove vegetation (Figure 2.3). Several buildings were also featured in the case study area.



Figure 2.3 Historical topographical map from 1945, obtained from https://libmaps.nus.edu.sg

In 1975, the study area was mainly covered with coconut plantations (Figure 2.4). Sungei Sopok and the mangroves persisted, albeit altered with impounding reservoirs and ponds (AECOM, 2021).

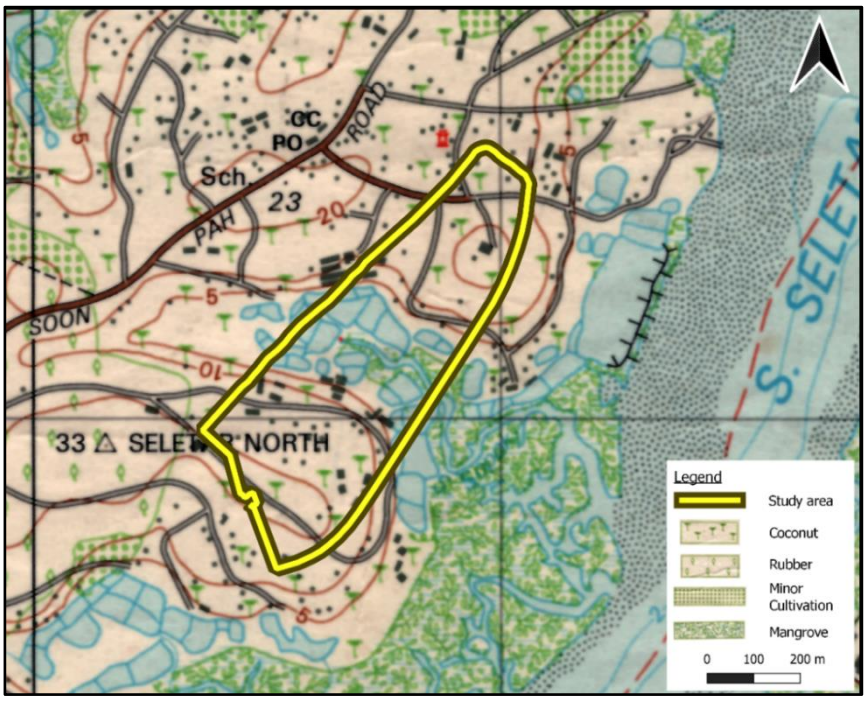


Figure 2.4 Historical topographical map from 1975, obtained from https://libmaps.nus.edu.sg

By 1983, only coconut plantations were predominant in the area, with some minor sundry cultivation at the northern tip of the study area. Fragments of mangrove habitats remained in the coastal area (Figure 2.5). To make the area more accessible, several roads were built in the study area and nearby Sungei Sopok and the mangroves. Seletar

was dammed to form Lower Seletar Reservoir in 1986, and this would have resulted in the loss of the mangroves along Sungei Sopok and Sungei Seletar (AECOM, 2021). The golf course fronting Lower Seletar Reservoir was built as part of the Orchid Country club in 1993.



Figure 2.5 Historical topographical map from 1983, obtained from https://libmaps.nus.edu.sg

The map from 2010 further shows that the study area was covered by spontaneous vegetation of scrub, i.e., vegetation that occurs naturally and is neither manicured nor managed by humans, with an open grassland in the center (Figure 2.6).



Figure 2.6 Historical topographical map from 2010, obtained from https://libmaps.nus.edu.sg

2.4. Project Scope and Implementation Schedule

The site of the Projects is located at Yishun Neighbourhood 5 (Miltonia), adjacent to Yishun Avenue 1. The project area coverage is approximately 27 hectares. At present, the Project site features freshwater stream and forested area. As the existing terrain at Yishun Miltonia is vegetated and undulating, the proposed Public Housing development would entail civil engineering works such as site clearance (removal of existing trees and vegetation), earthworks cutting/filling within site to achieve desirable platform levels required for the proposed development; construction of roads, construction of drains, sewer works, building works, utilities/services laying and other related works.

Upon the completion of earthworks and civil works, roadworks, sewer works, and building works will run concurrently. All activities are expected to be completed within 84 months from the project's date of commencement. The implementation schedule is provided in Table 2-1.

Table 2-1 Implementation schedule of entire project

No.	Activity	Timeline
1.	Earthworks	Within 24 months
2.	Roadworks	Within 84 months
3.	Sewer works	Within 84 months
4.	Building Works	Within 84 months

It is understood that detailed design works/layout plans and detailed construction methodology are not available at this stage. Based on the preliminary information available, proposed construction works and associated work activities are provided in Table 2-1. Wherever necessary, the standard construction industry practices applicable are taken as references to assess the impacts associated with the proposed project.

2.5. Construction Approach

The project site is shown in Figure 2.7 and described below.

Earthworks and Civil Works

The phased construction plan of the earthworks and civil works stage of the project will be conducted in 2 main phases, with Phase 2 further divided spatially into 5 sub-areas (Figure 2.7). Works from Phase 2 onwards will be carried out concurrently. All earthwork activities are expected to be completed within 24 months from the project's date of commencement. The implementation schedule is provided in Table 2-2.

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Table 2-2 Implementation schedule of project Earthwork Plan

Phase	Description of Works	Completion Time from the Date of Commencement of Works
1	Earthworks (Parcel)	Within 15 months
2A	Earthworks (Parcel)	Within 24 months
2B	Drainage	Within 24 months
2C	Box Culvert	Within 24 months
2D	3-Cell Box Culvert	Within 24 months
2E	Retaining Wall	Within 24 months
3	Earthworks Site Clearance. Cut and Fill works	Within 24 months

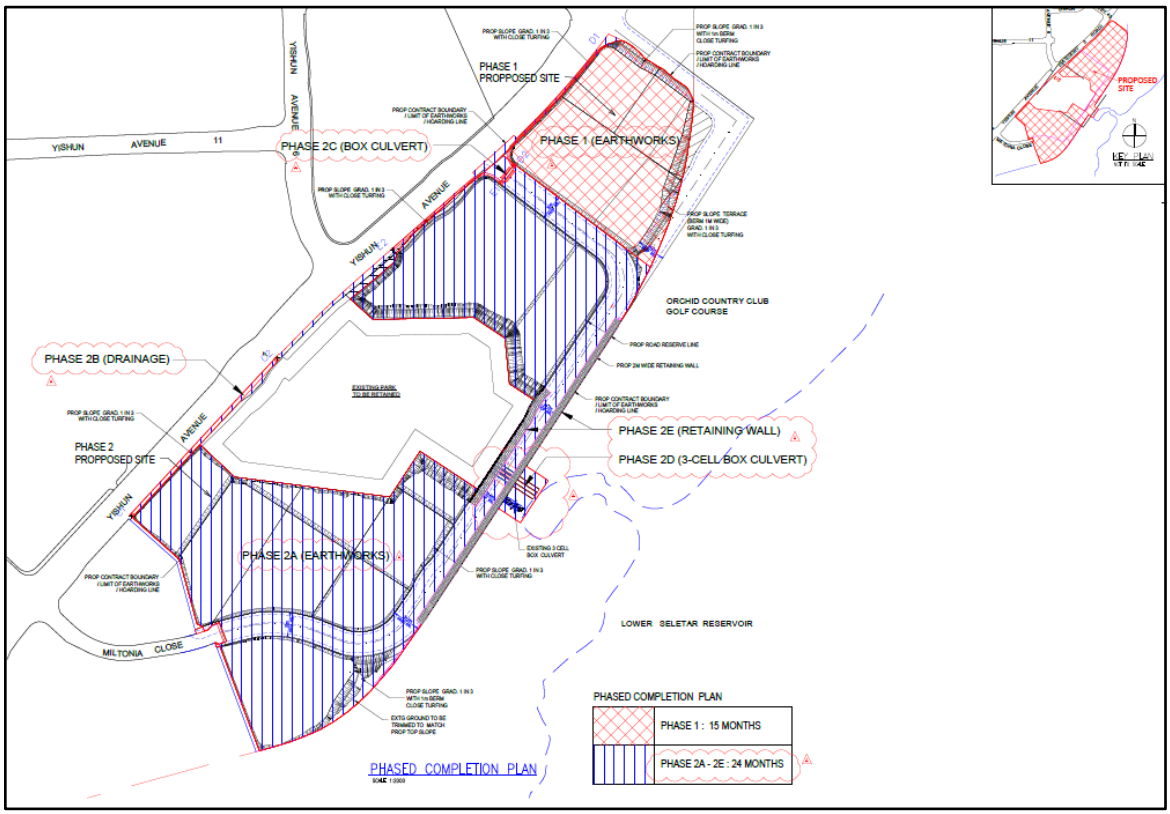


Figure 2.7 Phased construction areas in the project site

Roadworks and Sewer works

Upon the completion of earthworks, access routes as well as permanent roads will be laid within the project site. Sewer pipelines will be laid either through pipejacking method, which is a trenchless method aiming to reduce the amount of excavation required for the installation of the pipelines, or by open-cut method, which involves excavating a trench along the sewer alignment to install the pipelines. Should the pipejacking method be chosen, this will also include the installation of several jacking shafts along the alignment to install the sewer pipelines.

Building Works

Building works will take place concurrently with roadworks and sewer works. There are

two parts of the building works, namely foundation and superstructure works.

Bored pile foundation is suitable for supporting heavier structures, it can be used for this development which includes multi-storey buildings. The bored piles installation will involve soil dewatering, soil boring work, installation of rebar cages, casting of concrete, followed by installation of pile caps. This will set the foundation for the superstructure to be installed subsequently. The superstructure will consist of prefabricated structures. There will be a need to establish a power supply within the project site. Soil excavation may be required for the installation of working platforms and preparation of lean concrete. Following this, formwork, rebar handling, hoisting of falsework, and casting of concrete will be carried out. Once the structural works have been completed, architectural work such as finishes, plastering and tiling will be carried out.

2.5.1. Construction Activities Associated with Proposed Project

Following construction activities are expected to take place during execution of proposed project:

- Site clearing, earthworks, and general construction activities (e.g. soil mixing clearing and preparation, trench excavation, backfill, compaction, spoil handling and transport, building of permanent structures);
- Stockpiling and materials handling (delivery, unloading, and use of construction aggregates etc.);
- Vehicle movements and emissions as a result of equipment, materials and personnel movement in and out of construction work areas;
- Use of high impact stationary and mobile equipment such as pile drivers, jackhammers, pavement breakers, excavators, dozers, etc. leading to variable and sporadic noise levels, typically repeating over time;
- Equipment/ plant maintenance and refueling activities potentially leading to hazardous waste and accidental leaks or spills;
- Workforce activities leading to generation of general waste;
- Storage and disposal of solid and liquid waste; and
- Use and storage of hazardous materials potentially leading to accidental spills/ leakage or releases.

2.5.2. Operational Activities Associated with Project

The project site consists of a residential development. Operational activities are associated with an increased in human presence and activities. This includes increased road traffic activities, increased light and noise from human activities, and an increase in human presence in general. Additionally, the sealing of surfaces will cause changes in the natural permeability of the ground, leading to changes in stormwater flow, with higher surface runoff and lower levels of ground infiltration.

3. EIA APPROACH

3.1. Singapore's EIA Context

Although there is no legislation that specifically requires an EIS for major development projects in Singapore, a screening process is used on a project basis to decide if an EIS is required. In general, development projects are required to undergo a thorough evaluation process that addresses the development's potential impact on traffic, public health, heritage, and the environment. In addition, proposed development projects near sensitive areas, such as Nature Reserves, Nature Areas, marine and coastal areas, other areas of significant biodiversity or with potential trans-boundary impact, are subject to greater scrutiny. This is intended to help set the grounds (on a reasonable basis) on the potential impacts (whether it will cause substantial pollution of or significant and harmful change) and is also consistent with principles of the screening stage in international EIA practices. Developers and regulatory agencies will communicate the project details and projected environmental impacts to government agencies, who will then decide on the need for and extent of the required environmental impact studies. The various regulatory agencies will reply with Form B and consolidated forms will be submitted to the Ministry of National Development / Urban Redevelopment Authority for their final categorisation.

Due to the potential impacts, it is deemed that a comprehensive study comprising of impact analysis, assessment, and mitigation management is required for this proposed development. An Environmental Baseline Study (2021) and Environmental Impact Study (2022) were previously conducted by AECOM. This current EIA updates the baseline study conducted in the previous report and validates the impact assessment conducted based on updated project information.

3.2. Scope of EIA

This EIA study is conducted as per the requirements specified by HDB in the Invitation to Tender (ITT), and scoping consultation process with Technical Agencies. As noted earlier, an Inception Report describing the scope of EIA was submitted to the relevant Technical Agencies prior to the commencement of the EIA study.

The EIA shall:

- Update the baseline conditions of the proposed study area;
- Establish Environmental Quality Objectives (EQOs) and define the acceptable impact levels in a given environmental receptor.
- Identify potential impacts and determine the significance of impacts on sensitive receptors; including ecological connectivity to the surrounding greeneries;
- Validate and assess the magnitude, likelihood of the potential environmental impacts;
- Propose and justify effective mitigation measures (if any) to minimise environmental impacts (e.g. pollution, environmental disturbance and nuisance) during construction of the Infrastructure Project;
- Validate and assess the residual environmental impacts (i.e. after practicable mitigation) and the cumulative effects expected to arise during construction of

the Infrastructure Project in relation to the sensitive receptors and potential affected uses;

- Identify, assess and specify methods, measures and standards, to be included during construction of the Infrastructure Project which are necessary to mitigate the residual environmental impacts and cumulative effects and reduce them to minimal levels;
- Tailor mitigation measures to address different type and stages of construction works;
- Propose an Environmental Monitoring and Management Plan (EMMP) to document specific monitoring and environmental impact management procedures for the project including a flora and fauna management plan.

(Table 3-1) lists relevant legislation, regulations and guidelines that govern the various environmental parameters within Singapore. The latest legislations and relevant subsidiary regulations can be accessed from the website of Singapore Statutes Online (SSO) (n.d.) at https://sso.agc.gov.sg/.

Table 3-1 List of applicable Singapore legislations, regulations, and guidelines

Parameter	Legislation, Regulations and Guidelines
General	• Environmental Protection and Management Act, 1999 • Environmental Public Health Act, rev. 2020 • Singapore Code of Practice on Pollution Control (SS593: 2013)
Biodiversity	• The Wildlife Act 2020 • The Parks and Trees Act 2005 • The Parks & Trees Regulations 2006 • The Parks & Trees Preservation Order 1998 • Parks & Trees (Composition of Offences Regulations) 2006 • Parks & Trees (Planning Areas) Notifications 2006 • Parks & Trees (Heritage Road Green Buffers) Order 2006 • Singapore Red Data Book, Second Edition, 2008 • Singapore Red Data Book, Third Edition (online), 2021 • IUCN Red List of Threatened Species to assess species vulnerability (2021) • CITES (the Convention on International Trade in Endangered Species of Wild Fauna and Flora, also known as the Washington Convention) 1983 • NParks Biodiversity Impact Assessment (BIA) Guidelines (2021)
Noise	• Environmental Protection and Management Act 2002, Part VIII Noise Control • Environmental Protection and Management (Control of Noise at Construction Sites) Regulations 2008 • Environmental Protection and Management (Boundary Noise Limits for Factory Premises) Regulations 2008 • NEA Code of Practice on Pollution Control SS 593 (2013) • Code of Practice for Noise Control on Construction and Demolition Sites SS602 (2014)
Surface Water Quality	• Sewerage and Drainage Act 2001 • Sewerage and Drainage (Surface Water Drainage) Regulations 2007 • Sewerage and Drainage (Trade Effluent) Regulations revised 2007 • Environmental Protection and Management Act 2002, Part V on water

Parameter	Legislation, Regulations and Guidelines
	pollution • Environmental Protection and Management Act (Trade Effluent) Regulations 2008 • PUB Code of Practice on Surface Water Drainage (2018) • PUB Handbook on Managing Urban Runoff (2013) • NEA Code of Practice on Pollution Control SS 593 (2013) • PUB Guidebook on Erosion and Sediment Control at Construction Sites (2018)
Ambient Air Quality	• Environmental Protection and Management Act 2002, Part IV on Air Pollution Control • Environmental Protection and Management (Vehicle Emissions) Regulations 2008 • Environmental Protection and Management (Prohibition on Use of Open Fires) Order 2008 • Environmental Protection and Management (Air Impurities) Regulations 2008 • NEA Singapore Ambient Air Quality Targets (Long Term Targets) • NEA Code of Practice on Pollution Control SS 593 (2013)
Waste Management	• Environmental Protection and Management Act 2002, Part VII on Hazardous Substances • Environmental Protection and Management (Hazardous Substances) Regulations 2008 • Environmental Public Health (General Waste Collection) Regulations 2000 • Environmental Public Health (Toxic Industrial Waste) Regulations 2000 • NEA Code of Practice on Pollution Control SS 593 (2013)
Vector Control	• NEA guidelines on “Rainwater Collection System and Mosquito Prevention • Control of Vectors and Pesticides Act 2002 • Environmental Public Health Act (EPHA) 2002

3.3. EIA Study Area and Environmental Aspects

The EIA study area denotes the area where construction of the proposed project is predicted to have impacts on various environmental aspects within the site. Figure 3.1 shows the extent of the proposed study area. The updated baseline surveys will focus on the demarcated study area, with the impacts in this area being the focus of EMMP report.

The study area covers a vegetated area of approximately 27 ha.



Figure 3.1 Map showing current project area

The environmental aspects that were studied for this project, along with a brief description of each aspect and explanation of its relevance in the study, are presented below. The identified sensitive receptors are listed down in Table 3-2 .

Biodiversity

This aspect covers ecologically sensitive areas, as well as flora and fauna groups inhabiting the project site that may be impacted by future construction and operation of the project. The main groups studied are vegetation on site, birds, mammals, amphibians, reptiles, butterflies, and odonates. Aquatic surveys of natural streams were also conducted, covering freshwater fish, molluscs, and decapod crustaceans. Impacts to biodiversity during the project implementation were assessed, and mitigation measures to address the potential impacts were recommended.

Hydrology and Water Quality

This aspect concerns natural waterbodies within the project site that may be impacted during the construction stage. Free-flowing streams were mapped, and water quality analysis and stream characteristics were carried out at points along each stream to establish the baseline condition. Based on HDB's housing plans, a natural stream is found within the proposed nature park area. This study characterized natural streams and conducted water quality analysis on the streams. Direct and indirect impacts to streams during the project implementation were studied.

Noise

The various construction activities will likely increase noise levels beyond current ambient level. Additionally, baseline levels will likely increase permanently during the operational phase of the project. Many fauna species are sensitive to noise. Noise levels were measured at sensitive receptors and analysed to assess the baseline condition. Impacts of noise from construction activities were assessed to recommend mitigation measures.

Ambient Air Quality

Construction activities are known to release dust and other particulate matters that may harm the health of sensitive receptors in surrounding area, in this case flora and fauna species and human receptors within project study area. The baseline ambient air quality was established. The impacts generated from construction activities were assessed and recommendations to mitigate the impacts are provided.

Vibration

Construction activities involves use of heavy equipment generating vibration that may harm the health of sensitive receptors in surrounding area. The baseline vibration levels were established. The impacts generated from construction activities were assessed and recommendations to mitigate the impacts are provided.

Light

Increased artificial light during night-time construction activities could disrupt circadian cycles of animals and distort the day–night cycle of plants. Light from the operational phase may impact the flora and fauna residing within the proposed nature park area. Impacts from increased artificial light were qualitatively studied, and mitigation measures proposed to reduce adverse impacts to the surrounding environment.

Waste Management

The main impacts in relation to the storage, handling, transport and disposal of waste include deterioration of the environment and health & safety risks with regards to hazardous waste, if they are not managed properly. Food waste both during the construction and operation phase may also lead to incidences of human-wildlife conflict. These impacts were assessed and mitigation measures to overcome these impacts were proposed.

Vector Control

The possibility of vector borne diseases in Singapore's warm tropical climate is always present. As the majority of vector-borne diseases in Singapore are transmitted by mosquitoes, these impacts were assessed and mitigation measures to overcome these impacts were proposed.

3.4. Identification of Sensitive Receptors

Table 3-2 provides the overview of the identified sensitive environmental receptors that may be affected during the development of the proposed project.

Table 3-2 Overview of identified sensitive receptors

Environmental Aspects	Sensitive receptors
Biodiversity	• Native flora and fauna of international conservation significance (i.e., classified as Critically Endangered, Endangered, or Vulnerable according to IUCN classification system) within project study area • Native flora and fauna of national conservation significance (i.e., classified as Critically Endangered, Endangered, and/or Vulnerable according to Singapore Red Data Book (Davison et al., 2008) or other relevant local status publications) within project study area • Native flora and fauna endemic to Singapore within project study area • Habitats with high ecological value (i.e., environments that support species of conservation significance)
Surface Water Quality	• Aquatic flora and fauna within project study area • Surface waterways that support habitats of conservation significance, particularly in the natural stream, which will be conserved and retained as part of the development
Noise	• Species that are susceptible to noise pollution (e.g., species that require a quiet environment to find prey and species with acute hearing) • People working on the site (e.g., construction workers) • Residents along Miltonia Close and Yishun Avenue 1 • Visitors of the Orchid Country Club
Ambient Air Quality	• Flora and fauna living within project study area • People working on the site (e.g., construction workers, consultants) • Residents along Miltonia Close and Yishun Avenue 1 • Visitors of the Orchid Country Club
Vibration	• Fauna within project study area • Residents along Miltonia Close and Yishun Avenue 1 • Visitors of the Orchid Country Club
Light	Species that are susceptible to light disturbance (e.g., nocturnal fauna) within project study area

3.5. Impact Assessment Methodology

3.5.1. Identification of Impacts

The proposed project involves earthworks, infrastructure works, sewer works, and building works within the project study area. This will involve clearance of vegetation and earthworks for working spaces (e.g., project footprint, access routes, storage space

for construction equipment and materials), which has several potential impacts on surrounding environment. These impacts include those that are direct in nature, such as loss of species, habitat destruction due to vegetation clearance, and indirect impacts such as fragmentation of habitats, isolation of population due to reduced connectivity and fauna movement, increased edge effect[1], and noise, light and air pollution during construction and operation phases of the project.

Assessment of the impacts of the proposed project will include:

- Elements of the community, man-made environment, and natural environment likely to be affected by the project (including ecological impacts);
- Scale and effects of vegetation removal from site clearance, and construction;
- Introduction, loss, or changes to native species such as trees, understory plants, and wildlife as well as habitats which support resident, seasonal, or migrant species;
- Wildlife displacement;
- Wildlife connectivity;
- Disturbances to wildlife considering seasonal migratory variations;
- Suspended sediment and sedimentation impact on stream/aquatic habitats, aquatic plants, animals, or hydrophytes;
- Noise, dust, vibration impact on sensitive receptors such as residents, animals, aquatic fauns, or hydrophytes;
- Impacts on sensitive receptors; including ecological connectivity to the surrounding greeneries;
- Water pollution and construction waste management (e.g., toxic and general waste);
- Magnitude and likelihood of the potential environmental impacts;
- Environmental impacts (e.g. pollution, environmental disturbance and nuisance) during construction of the Infrastructure Project;
- Residual environmental impacts (i.e. after practicable mitigation) and the cumulative effects expected to arise during construction of the Infrastructure Project in relation to the sensitive receptors and potential affected uses;
- Extent of the secondary environmental impacts that may arise from the proposed mitigation measures

The previous study used a combination of quantitative and qualitative methods to identify the impacts to sensitive receptors. The assessment criteria for each environmental aspect are shown in the table below.

[1] i.e., higher temperature, light, noise, and pollution levels on the edges compared to the interior of a forest resulting in retraction or loss of species sensitive to these disturbances.

Table 3-3 Methodology and criteria to identify impacts, adapted from Table 6-4 in the previous study (AECOM, 2022)

Environmental Aspects	Type of Assessment	Assessment Criteria
Biodiversity	Construction phase: Quantitative and qualitative Operational phase: Qualitative	Broadly takes guidance from Hong Kong Environmental Protection Department (2011), with considerations from literature review and local biodiversity standards.
Hydrology and Surface Water Quality	Qualitative assessment for sensitive receptors and surface water resources Quantitative assessment (hydrological modelling) for surface water resources	• Compares modelling results to pre-determined tolerance of sensitive receptors • Singapore Environmental Protection and Management (Trade Effluent) regulations (Legislation Division of the Attorney-General's Chambers, n.d.) • Singapore NParks Biodiversity Impact Assessment (BIA) Guidelines (National Parks Board, 2021) • Water Quality Criteria for Aquatic Life from various countries and organisations (UNECE, 1994; ASEAN, 2005; WHO; USEPA, 2017; PHILMINAQ, 2014; ANZECC & ARMCANZ, 2000) (Department of Environment, Malaysia, 2005; Cash & Wright, 2001)
Air Quality	Qualitative	Construction phase: Broadly takes guidance from the UK Institute of Air Quality Management (IAQM)'s dust risk assessment methodology (2014) Operational phase: Assess the predicted increase in traffic in the vicinity of the Project.
Airborne Noise	Quantitative	Construction Phase: Environmental Protection and Management (Control of Noise at Construction Sites) Regulations, 2008 (Legislation Division of the Attorney-General's Chambers, n.d.) Operational Phase: • NEA Technical Guideline on Boundary Noise Limits for Air Conditioning and Mechanical Ventilation Systems in Non-Industrial Buildings (2018) • NEA Technical Guideline for Land Traffic Noise Impact Assessment (2016)
Vibration	Qualitative	BS 5228 Part 2 Guidance on Human Response to Vibration Levels
Light	Qualitative	Amount of light reaching the sensitive receptors

3.5.2. Assessment of Impacts

This report will compare the significance of impacts assessed in the previous study with that in the current study, particularly with availability of project information. As such, this study utlilised the same methodology as in the previous environmental study for the impact assessment (AECOM, 2022).

The sensitivity of the affected receptors as well as the intensity of the impact were first classified to determine the level of consequence of each impact. The consequence was then matched against the likelihood of the impact, which then gives an impact significance. This section aims to breakdown the different factors that contribute to the final impact significance.

Receptor Sensitivity

The sensitivity of each receptor was prioritised based on their vulnerability to the impact – into Priority 1, 2, or 3. Priority 1 refers to receptors that are most sensitive (e.g., flora and fauna species of high ecological value), while priority 3 refers to receptors that are least sensitive. Table A-1 in Appendix A contains the breakdown of each environmental aspect into the three priority levels, adapted from Table 6-1 in the previous study (AECOM, 2022). This report utilises the same classification of receptor sensitivity as defined in the previous study but will assess and modify the impact intensity and likelihood where relevant.

Impact Intensity

Each impact was given an intensity level ranging from Negligible to High. Given the ambiguity in the nature of assessing the "intensity" component, we use the criteria, tabulated in Appendix A to broadly aid the assessment. Table A-2 in Appendix A describes the general criteria to assess the impact intensities for the physical parameters, adapted from Table 6-5 in the previous study (AECOM, 2022). Table A-3 describes that for the biodiversity receptors, adapted from Tables 7-6, 7-8, 7-10,7-13, 7-15, and 7-17 in the previous study (AECOM, 2022).

Impact Consequence

Based on the receptor sensitivity and impact intensity, the following matrix is applied to determine the consequence of the respective impact. The consequence may range from Imperceptible to High.

Table 3-4 Impact consequence assessed based on intensity and consequence

Sensitivity / Intensity	Priority 3	Priority 2	Priority 1
Negligible	Imperceptible	Imperceptible	Very Low
Low	Very Low	Very Low	Low
Medium	Very Low	Low	Medium
High	Low	Medium	High

Impact Likelihood

The consequence was then paired with the likelihood of the respective impact to determine the significance of the impact. The likelihood reflects the confidence at which predicted impact will happen anytime during the project duration. This could be based on documentation or prior experience. Construction activities, such as vegetation clearance, will have a likelihood of Certain as they have been planned for.

Table 3-5 Impact significance assessed based on likelihood and consequence

Likelihood	Definition for All Environmental Parameters	Definition for Airborne Noise (Construction)
Unlikely/ Remote	Would be unlikely or not expected to occur during pre-construction, construction and operational activities.	Frequency of exposure < 5% to active duration of equipment over daily working period.
Less Likely/ Rare	Would less likely/ rarely occur during pre-construction, construction and operational activities.	Frequency of exposure of 5 – 15% to active duration of equipment over daily working period.
Possible/ Occasional	Would possibly/ occasionally occur during pre-construction, construction and operational activities.	Frequency of exposure of 16 – 25% to active duration of equipment over daily working period.
Likely/ Regular	Would likely to occur or would occur on a regular basis during pre-construction, construction and operational activities.	Frequency of exposure of 26 – 50% to active duration of equipment over daily working period.
Certain/ Continuous	Would be certain to occur or would occur continuously during pre-construction, construction and operational activities.	Frequency of exposure of > 50% to active duration of equipment over daily working period.

Impact Significance

Finally, the significance of each impact is assessed based on the factors mentioned above – Consequence (i.e., Intensity X Sensitivity) and Likelihood. Impact significance may range from Negligible to Major. Positive impacts were excluded from this assessment. The matrix to assess the impact significance is shown below.

Table 3-6 Impact significance assessed based on likelihood and consequence

Consequence / Likelihood	Imperceptible	Very Low	Low	Medium	High
Unlikely/ Remote	Negligible	Negligible	Negligible	Negligible	Negligible
Less Likely/ Rare	Negligible	Negligible	Minor	Minor	Minor
Possible/ Occasional	Negligible	Minor	Minor	Moderate	Moderate
Likely/ Regular	Negligible	Minor	Moderate	Moderate	Major
Certain/ Continuous	Negligible	Minor	Moderate	Major	Major

Moderate and major impacts were considered to be significant and hence mitigation

measures should be adopted to reduce their significance as much as possible. These measures are expected to also reduce the impact of the negligible and minor impacts further. Hence, negligible and minor impacts were considered to be trivial and do not require additional mitigation measures.

3.5.3. Mitigation Measures

Based on the impact analysis of construction and operational activities of the proposed development, suitable mitigation measures are recommended to lower the magnitude of negative impacts on the environment to within acceptable levels as much as practically possible.

In general, mitigation measures follow two concepts:

ALARP : "As Low as Reasonably Practical"
BATNEEC : "Best Available Technology Not Entailing Excessive Costs"

The first concept is a hierarchy of actions that aims to find anything that can be done to avoid, minimise, or reduce the predicted/ potential adverse (negative) environmental impacts, as practically feasible and reasonable. The second concept comes in when discussing whether to adopt certain available technology that could address/reduce environmental impacts.

This EIA utilises both concepts for the development of mitigation measures for this project. In addition, this EIA also includes the mitigation measures recommended by the previous study (AECOM, Specialist Consultancy Services for Hydraulics Study at Yishun Neighbourhood 5 (Miltonia), 2022).

4. BIODIVERSITY

4.1. Introduction

The project site is part of a vegetated patch in the Yishun area. Due to its land use history, the site comprises of several habitat types, of which exotic-dominated secondary forests are the most prevalent. Other habitat types include exotic dominated-secondary forests and small pockets of native-dominated young secondary forests, scrubland, and urban vegetation. Within the proposed nature park area, there is a freshwater stream and surrounding swampy herbaceous vegetation. The proposed nature park area was suggested to be conserved as a core biodiversity area in the previous AECOM study to conserve the aquatic environment as well riparian habitats which provide important ecological services. The area also includes a portion of forest forming a contiguous conservation zone connecting the aquatic environment, riparian and forest habitats.

While there was a high proportion of non-native flora species, these species provided habitat for fauna species on site. In particular, the northern section contained a large number of Albizia trees that provided suitable canopies for nesting raptors. Food plants for fauna species, including the Fishtail Palm, Oil Palm, and various Fig species, were found throughout the site.

The presence of a swampy scrubland and freshwater stream within the project site also provide habitat to stream-dependent fauna species, including the red-tailed pipesnake (*Cylindrophis ruffus*), the rare *Pila scutata* apple snail, and several species of odonates and amphibians.

This following section describes the methodology that was carried out to update the baseline for biodiversity and identify the existing sensitive receptors within the project study area. The results of the current study were compared with the previous impact assessment (AECOM, 2021) in order to verify the results and provide an update of the previous study. Measures to mitigate these impacts are recommended for implementation during the construction and operational phases.

4.2. Conventions

The species' local conservation status was mainly based on *Singapore Red Data Book* (2008). However, the National Parks Board (NParks) is in the process of updating local conservation statuses of native species, and as the statuses of mammals, reptiles, and amphibians have been updated, these were taken from the lists uploaded on NParks' website (National Parks Board, 2022).

For flora, a combination of updated vascular flora checklist (Lindsay, et al., 2022) and *The Checklist of the Total Vascular Plant Flora of Singapore* (Chong, Tan, & Corlett, 2009) were the main references. Conservation status for *Odonata* was derived from *The Dragonflies of Singapore: An updated checklist and revision of the national conservation statuses* (Ngiam & Cheong, 2016). For butterflies, Singapore does not have conservation statuses, but conservation status is listed according to the species' rarity based on *A field guide to the butterflies of Singapore* (Khew, 2015). Global conservation

statuses were derived from the IUCN Red List of Threatened Species (International Union for Conservation of Nature and Natural Resources (IUCN), 2021).

Table 4-1 provides a consolidated list of statuses from the various sources. In this report, exotic plant species with no local status were categorised as Not Evaluated. In this report, flora species with local status of EX, CR, EN, VU, and DD are considered of conservation significance.

Table 4-1 Conservation status for flora & fauna species & respective definitions, adapted from IUCN Red List (2021), Singapore Red Data Book (Davison et al., 2008), Flora of Singapore (Lindsay, et al., 2022), and The Total Vascular Plant Flora of Singapore (Chong, Tan, & Corlett, 2009).

Conservation Status	Definition
Global	
Extinct (EX)	There is no reasonable doubt that the last individual has died. Exhaustive surveys in known and/or expected habitat, at appropriate times, throughout its historic range have failed to record an individual. Surveys should be over a time frame appropriate to the taxon's life cycle and life form.
Extinct in the Wild (EW)	Known only to survive in cultivation, in captivity or as a naturalized population (or populations) well outside the past range. Exhaustive surveys in known and/or expected habitat, at appropriate times, throughout its historic range have failed to record an individual. Surveys should be over a time frame appropriate to the taxon's life cycle and life form.
Critically Endangered (CR)	Considered to be facing an extremely high risk of extinction in the wild.
Endangered (EN)	Considered to be facing a very high risk of extinction in the wild.
Vulnerable (VU)	Considered to be facing a high risk of extinction in the wild.
Near Threatened (NT)	Does not qualify as Critically Endangered, Endangered or Vulnerable now, but is close to qualifying for or is likely to qualify for a threatened category in the near future.
Least Concern (LC)	Does not qualify for Critically Endangered, Endangered, Vulnerable or Near Threatened. Widespread and abundant taxa are included in this category.
Data Deficient (DD)	Inadequate information to make a direct, or indirect, assessment of its risk of extinction based on its distribution and/or population status. A taxon in this category may be well studied, and its biology well known, but appropriate data on abundance and/or distribution are lacking. Data Deficient is therefore not a category of threat.
Not Evaluated (NE)	Not yet been evaluated against the criteria.
Local	
Presumed Nationally Extinct (NE)	This species is extinct in Singapore but still survives outside Singapore. It has not been recorded with the last 30 years (plants) and 50 years (animals).
Critically Endangered (CR)	There are fewer than 50 mature individuals, or if more than 50 mature individuals but less than 250, with some evidence of decline or fragmentation.
Endangered (EN)	There are fewer than 250 mature individuals, and no other evidence of decline or fragmentation.

Conservation Status	Definition
Vulnerable (VU)	There are fewer than 1000 mature individuals, but more than 250 and there may or may not be any other evidence of decline, small range size, or fragmentation.
Local (non-Native flora)	
Cultivated-Only	Exotic species that can only be found in cultivation.
Casual	Exotic species that have established outside of cultivation but rely on repeated introductions of propagules for persistence in the wild.
Naturalised	Exotic species that maintain self-replacing populations in the wild independent of new human introductions.
Cryptogenic	Species that can only be found in human-modified habitats for which there is a lack of knowledge of their original biogeographic range.

4.3. Desktop Review

The desktop study covered the review of the previous environmental baseline studies conducted in the project study area, field studies undertaken by experts, and other publicly available literature.

The Environmental Baseline Study carried out by AECOM in 2020 (AECOM, 2021) explored the existing state of the ecological and hydrological environments on the project site. This review includes a summary of the habitats, flora, and fauna found on the study site.



Figure 4.1 Map showing current study area

4.3.1. Habitat Types

The area studied consisted of two main habitat types, terrestrial and freshwater, encompassing six distinct vegetation types. The vegetation types are abandoned-land forest, young secondary forest, scrubland and herbaceous vegetation (swampy and non-swampy), waste woodland, and managed vegetation. The study area was

dominated by abandoned-land forest, which makes up to 34.1% of the baseline area. The abandoned-land forest was primarily dominated by exotic fruit tree and crop plant species such as durian (*Durio zibethinus*), oil palm (*Elaeis guineensis*) and longan (*Dimocarpus longan*) The young secondary forest type comprised of common native trees such as *Cinnamomum iners*, *Cyrtophyllum fragrans*, and *Caryota mitis*, as well as endangered species of native Pthraj tree (*Aphanamixis polystachya)*.

Several small patches of cleared forest are farming areas and a construction site. Other patches of cleared forest are now scrubland that are largely along the edge of the study area. In certain scrubland patches along the eastern edge of the forest, coastal associated plant species were discovered, like *Deris trifoliata* and *Casuarina equisetifolia*. These coastal plants could have persisted from a previously existing coastal forest that occupied the site.



Figure 4.2 Map showing vegetation types taken from previous study

One freshwater stream is present in the study area, and it occurs in a swampy scrubland. The vegetation type present was similar to that of the swampy scrubland, which was largely exotic herb species associated with wet areas and habitats. Species present include *Mikania micrantha, Acrostichum aureum, Ludwigia octovalvis,* and *Panicum repens*. Overall, the freshwater stream and swampy scrubland area has low floristic diversity.

In general, the abandoned-land forest, swampy scrubland, and freshwater stream were deemed to have the highest conservation priority. Additionally, there were patches of bamboos on the site, one of which was found to be occupied by bamboo bats (*Tylonycteris sp*.). While habitats found within the baseline study area are mainly disturbed vegetation and not considered ecologically significant in Singapore, the site is still a refuge for important conservation species like the nationally critically endangered

Bintangaur laut (*Calophyllum inophyllum*) and vulnerable *Buas buas* (*Premna serratifolia*). These coastal species are more often found on offshore islands like St John's Island and Pulau Tekukor, so their presence on mainland Singapore is valuable in preserving genetic diversity for the species.

4.3.2. Flora Biodiversity Literature Review

Previous Baseline Study

The baseline study recorded 169 flora species and two species groups, whereby 45.0% are native and 16.3% are threatened. There are 28 locally threatened species, but 12 of these species are not of conservation significance as they are likely species that are persistent from cultivation.

The other 16 locally threatened species are of conservation significance. Nine species are not cultivated, so these species are likely of the local native genetic stock. These species are (1) *Agelaea macrophylla*, (2) *Alsophila latebrosa*, (3) *Amphineuron opulentum*, (4) *Cayratia trifolia*, (5) *Lygodium* cf*. circinnatum*, (6) *Connarus semidecandrus*, (7) *Limacia scandens*, (8) *Oxyceros longiflorus*, and (9) *Premna serratifolia*. The final seven species are cultivated locally, and they are (1) *Ardisia ellipti*ca, (2) *Calophyllum inophyllum*, (3) *Centotheca lappacea*, (4) *Clerodendrum villosu*m, (5) *Hoya diversifolia*, (6) *Litsea firma*, and (7) *Planchonella obovate*.

Tree inventory and mapping surveys recorded 43 large plant specimens across 12 species, dominated by *Ficus microcarpa* and *Falcataria falcata*. Most of these plant specimens were found in abandoned land habitat types and provide important food resources for fauna on the project site.

4.3.3. Fauna Biodiversity Literature Review

Previous Baseline Study

A total of 153 fauna species from selected vertebrate and invertebrate groups were recorded in the baseline study, though it should be noted that more species are expected to be found if surveys were conducted over a longer period. Together 17 species of conservation significance were observed in the study area, which include the Vulnerable lesser bamboo bat (*Tylonycteris fulvida*), buffy fish owl (*Ketupa ketupu)*, changeable hawk-eagle (*Nisaetus cirrhatus* and the Endangered straw-headed bulbul (*Pycnonotus zeylanicus*) and smooth-coated otter (*Lutrogale perspicillata*). The Nationally Extinct forest hopper (*Astictopterus jama jama*) was also rediscovered.

Figure 4.3 summarises the fauna results extracted from the previous baseline study.

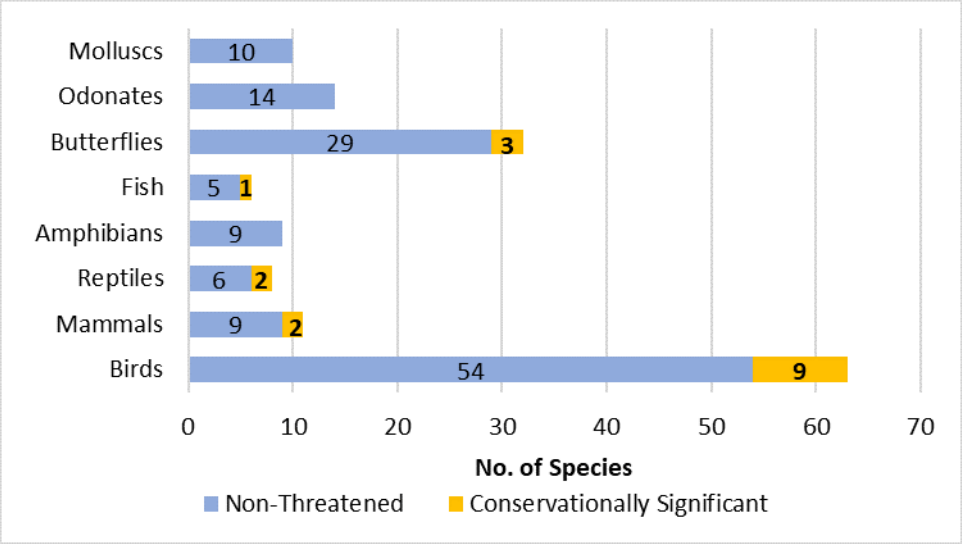


Figure 4.3 Summary of fauna results from the previous baseline study

Several species of conservation status found are specialists and are dependent on habitats to persist. These include the red-tailed pipe snake (*Cylindrophis ruffus*) and buffy fish owl (*Ketupa ketupu*), both of which are reliant on freshwater streams, as well as bamboo bats (*Tylonycteris sp.*), which are reliant on bamboo cluster for refuge.

4.4. Flora Baseline Surveys

4.4.1. Survey Methodology

17 Modified Gentry Plots (MGPs) were set within vegetated areas of the study site to cover the requisite 10% of the vegetated area, as per the Biodiversity Impact Assessment (BIA) Guidelines (National Parks Board, 2020). Each MGP consisted of 10 2 × 50 m subplots, within which woody flora with a diameter at breast height (DBH) of 2.5 cm or more will be recorded. In addition, each subplot also had six 1 × 1 m quadrats, where all herbaceous flora will be recorded (Monteagudo et al. 2016; National Parks Board 2020). Figure 4.4 provides a layout of MGPs within project study area. Flora (including non-woody shrubs, climbing plants, epiphytes, and herbs) of conservation significance encountered outside of the MGPs will be recorded opportunistically.



Figure 4.4 Layout of the MGPs for vascular flora species within the study area

Each MGP has 10 subplots, each subplot having six quadrants.

Survey teams utilized the Trimble® R2 integrated Global Network Satellite System (GNSS) units for geolocational accuracy. The Trimble® R2 GNSS is a receiver that can connect to multiple satellites in orbit if they are flying over the unit. In open areas with no cloud cover, as many as 20 satellites can connect to the Trimble® R2 GNSS unit, making submeter positioning accuracy possible. Accuracy underneath closed canopies is up to 1 m (Trimble 2021). Data will be collected on a 6th Generation iPad iOS 13.4.1, with locations from the Trimble® R2 GNSS unit linked to the iPad via the GNSS iPad application version 3.0.8.673 by Trimble® (Trimble 2020). The geolocations and details of the surveyed flora will be recorded using the TreePlotter™ Software Suite by PlanIT Geo™ (PlanIT Geo 2021). TreePlotter™ is a tree inventory and asset management software that allows users to geolocate and inventory trees in real time. This allows multiple users to work within a specific site and view trees as they are located and recorded, thus ensuring that the same tree is not recorded twice.

Static parameters collected for recorded flora can be found in Table 4-2. Plant samples were collected to facilitate species identification where required.

Table 4-2 Static parameters collected for surveyed flora

Static Parameter	Description
Coordinates (Eastings/Northings)	In SVY21 (EPSG:3414) Coordinate Reference System

Static Parameter	Description
Collection date	Date when the tree was geolocated
Flora Identification Number	Unique identification number for each tree encountered on site
Flora Species	Latin and common name[1]
Form	Is the flora a tree, shrub, palm, herb, fern, climber/vine?
Height	Height of the tree (m)
Girth	Circumference of the tree (cm) at 1.2 m height
Assessor's remarks	Any remarks about the tree, if applicable
Image	At least 1 color image of each tree surveyed (provided as supplementary material)

Note: Some flora species within the Southeast Asian region have no common name

4.4.2. Vegetation and Habitat Mapping

Vegetation and habitat maps were produced based on the flora recorded in the MGPs and opportunistic encounters. Vegetation maps were produced for woody flora with a girth of one metre or greater, and for flora of Conservation Significance. Habitat types within the site identified during vegetation surveys were demarcated based on species compositions within various areas of the site (Table 4-3).

Table 4-3 Habitat types found within Singapore and general description of each habitat, modified from the BIA Guidelines (National Parks Board, 2020).

Habitat	Description	Source(s)
Primary forest	Contains an emergent layer that has dipterocarp trees such as *Shorea* and *Dipterocarpus*. Has a continuous layer of tall native trees, a sub-canopy consisting of smaller trees, and an understorey dominated by saplings of big tree species interspersed with other shrubs and treelets	(Tan et al., 2007)
Native-dominated young secondary forest	Developed on land cleared not long before the 1960s, or on degraded soils and not near other native-dominated forests. Dominated by native pioneer trees such as *Adinandra*, *Macaranga*, *Mallotus* and *Trema*.	(A. T. K. Yee et al., 2016)
Native-dominated old secondary forest	Developed on land cleared much earlier than the 1950s, often on less degraded soil and with higher species richness than early successional native dominated secondary forest. Common species found in the canopy layer include *Alstonia* spp., *Calophyllum* spp., *Campnosperma* spp., *Elaeocarpus* spp., *Garcinia* spp., *Litsea* spp., *Rhodamnia* spp. And *Syzygium* spp. Common understorey plants include *Anisophyllea disticha* and *Agrostistachys borneensis*	(A. T. K. Yee et al., 2016)
Exotic-dominated Secondary Forest	Regrown on land that was recently cleared, usually after the 1960s. Typically dominated by *Acacia auriculiformis* and *Falcataria falcata*, and in recent years, *Cecropia pachystachya* and *Leucaena leucocephala*, depending on the seed sources	(National Parks Board, 2021)

Habitat	Description	Source(s)
	available from the surroundings during the time of clearance and succession.	
Abandoned kampung	Developed from an abandoned kampung or orchard, usually dominated by fruit trees such as Durian (*Durio zibethinus*) or Rambutan (*Nephelium lappaceum*), or ornamental plants such as *Spathodea campanulata*, *Aglaonema commutatum*, *Dieffenbachia seguine* and *Heliconia* spp.	(A. T. K. Yee et al., 2016)
Abandoned plantation	Developed from an abandoned plantation, usually dominated by Para Rubber (*Hevea brasiliensis*)	(A. T. K. Yee et al., 2016)
Scrubland/Grassland	Exposed areas with very little tree cover, typically dominated by grasses, shrubs and herbs.	(Lee Kong Chian Natural History Museum, 2017; A. Yee et al., 2011)
Freshwater swamp forest	Formed where slow-flowing streams drain into shallow valleys. The swamp is flooded periodically or semi-permanently, resulting in waterlogged soils that are anaerobic and unstable. Dominated by plants with special adaptations such as stilt roots, plank-like buttresses and pneumatophores. Examples include *Xylopia fusca* and *Paloquium xanthochymum*.	(Tan et al., 2007)

Comparison with Past Flora Baseline

The final flora checklist is produced by combining current flora survey results with past baseline flora survey results which overlap with the current study area , and the source of each species will be indicated (i.e. whether a species is recorded from past baseline, current baseline or both). The vegetation and habitat map are produced using data from current flora surveys.

4.4.3. Survey Results

4.4.3.1. Flora Inventory

Across the study area, Fishtail palm (*Caryota mitis*), Oil palm (*Elaeis guineensis*) and Wild Cinnamon (*Cinnamomum iners*) were the most commonly encountered vascular flora species throughout the forested habitat of the study area, which consists mainly of Abandoned Kampung and Abandoned Plantation at southern portion of study area, and Exotic-dominated Secondary Forest with small pockets of Native-dominated Young Secondary Forest at northern portion of study area.

As *Falcataria falcata* is an early successional species, they were not able to germinate and grow at shaded understorey. The regeneration of Miltonia forest is heavily dominated by *Caryota mitis* and *Cinnamomum iners*, which are found throughout understorey of whole study area. Large number of *Elaeis guineensis* were found at understorey of Abandoned Plantation and Abandoned Kampung habitat at Southern portion of study area.

The high number of cultivated flora species found within the study area, especially near the farm area at Miltonia, was expected as the area showed heavy human traffic, as evident from the trails inside the forests and small gardens found along the trails planted with various cultivated herbs. These species include flora likely planted for food or medicinal values, such as Starfruit (*Averrhoa carambola*), Pomelo (*Citrus maxima)* and Banana (*Musa spp)*. Some fruit trees were also observed within the study area, including Rambutan (*Nephelium lappaceum*), Durian (*Durio zibethinus*) and Jackfruit (*Artocarpus heterophyllus*). Yee et al. (2016) stated that these species are common in the abandoned kampong habitat type, and such habitat tend to be spatially heterogenous when found.

A total of 229 species had been compiled for the study area, in which 105 species were recorded in current baseline, 33 species in past baseline, and 91 species in both baseline studies. Out of the 229 species, 30 are of conservation significance, which comprises of 8 Critically Endangered, 3 Endangered, 17 Vulnerable, one Extinct and one Data Deficient flora species. Table 4-4 provides the list of flora species of conservation significance recorded within study area. Table 4-5 presents distribution of conservation significant flora species by numbers and percentages. This survey managed to record all the threatened flora species recorded in past baseline except for *Connarus semidecandrus* and *Agelaea macrophylla*, which were located outside of study area of current survey. While not considered threatened at past, a mature *Ficus caulocarpa*, currently assessed as Endangered, was recorded outside the proposed nature park area. Compared to previous baseline, this survey recorded additional threatened species, including vulnerable Elephant fern (*Angiopteris evecta*), Long leaved beautyberry (*Callicarpa longifolia*), Panggil (*Clerodendrum villosum*), Kerenang (*Symplocos fasciculata*), Shiny Leafed Lindera (*Lindera lucida*) and *Tinospora macrocarpa*, endangered Sea-shore Ardisia (*Ardisia elliptica*) and critically endangered Tenggek Burong (*Melicope lunu-ankenda*). Seedlings of *Horsfieldia sp*. Had been found sporadically, and this genus is generally rare in Singapore. While current study didn't record Eared-Leaf Diamond Flower (*Hedyotis auricularia*), a similar looking species *Spermacoce ocymifolia* were recorded instead. Both species are superficially similar,

the major differences being that the seeds of *hedyotis auricularia* are of length 0.3 to 0.5mm, while seeds of Spermacoce ocymifolia are of length 3mm (Wong, et al., 2019).

Several conservation significant flora, such as the Penaga Laut (*Calophyllum inophyllum*), Rambai (*Baccaurea motleyana*), Belinjau (*Gnetum gnemon*), Kelat oil (*Syzygium myrtifolium*), False lime (*Suregada glomerulata*) and Common Sterculia (*Sterculia parviflora*) likely persisted from cultivated origin and have limited conservation value (Neo et al., 2013). In fact, mature *Calophyllum inophyllum* trees had been observed within compound of Orchid Country Club located beside study area.

Table 4-4 Flora of local conservation significance encountered within the project study area.

(Y indicates that the species was recorded in the EBS stated in column, NA indicates the species was not recorded in the EBS stated in column.)

Latin Name	Common Name	Family	Growth Form	Status	Current EBS	Past EBS
Agelaea macrophylla	Akar pinang ketul, Akar pinang kutai	Connaraceae	Climber	Vulnerable	NA	Y
Angiopteris evecta	Elephant Fern, Paku Gajah	Marattiaceae	Herb	Vulnerable	Y	NA
Archidendron jiringa	Jering	Fabaceae	Tree	Vulnerable	Y	Y
Ardisia elliptica	Sea-Shore Ardisia	Primulaceae	Tree	Endangered	Y	NA
Baccaurea motleyana	Rambai	Phyllanthaceae	Tree	Critically Endangered	Y	Y
Breynia androgyna	Cekur Manis	Phyllanthaceae	Shrub	Vulnerable	NA	Y
Callicarpa longifolia	Long Leaved Beauty Berry	Lamiaceae	Shrub	Vulnerable	Y	NA
Calophyllum inophyllum	Penaga Laut, Borneo Mahogany, Indian Laurel	Calophyllaceae	Tree	Endangered	Y	Y
Causonis trifolia	Bush Grape, Fox-Grape, Three-Leaved Wild Vine, Threeleaf Cayratia	Vitaceae	Climber	Vulnerable	Y	Y
Cheilocostus speciosus	Spiral Ginger, White Costus, Crepe Ginger	Costaceae	Herb	Critically Endangered	Y	Y
Clerodendrum villosum	Panggil	Lamiaceae	Shrub	Vulnerable	Y	NA

Connarus semidecandrus	-	Connaraceae	Climber	Critically Endangered	NA	Y
Dimocarpus lichi	Mata Kucing, Isau, Sau, Kakus	Sapindaceae	Tree	Data Deficient	NA	Y
Ficus caulocarpa	Stem-Fruited Fig	Moraceae	Strangler	Endangered	Y	Y
Gnetum gnemon	Belinjau	Gnetaceae	Tree	Critically Endangered	Y	Y
Hedyotis auricularia	Eared-Leaf Diamond Flower	Rubiaceae	Herb	Extinct	NA	Y
Horsfieldia sp.	-	Myristicaceae	Tree	Vulnerable	Y	NA
Hoya diversifolia	Akar Kekapal, Caping Kera	Apocynaceae	Epiphyte	Vulnerable	Y	Y
Limacia scandens	-	Menispermaceae	Climber	Vulnerable	Y	Y
Lindera lucida	Shiny Leafed Lindera	Lauraceae	Tree	Vulnerable	Y	NA
Litsea umbellata	-	Lauraceae	Shrub	Vulnerable	Y	Y
Melicope lunu-ankenda	Tenggek Burong	Rutaceae	Tree	Critically Endangered	Y	NA
Oxyceros longiflorus	Akar Berdara Laut	Rubiaceae	Climber	Vulnerable	Y	Y
Planchonella obovata	Menasi, Sea Gutta	Sapotaceae	Tree	Vulnerable	Y	NA
Sterculia parviflora	Common Sterculia	Malvaceae	Tree	Critically Endangered	Y	NA
Suregada glomerulata	False Lime	Euphorbiaceae	Shrub	Critically Endangered	Y	NA
Symplocos fasciculata	Kerenang, Menasi	Symplocaceae	Tree	Vulnerable	Y	NA
Syzygium myrtifolium	Kelat Oil	Myrtaceae	Tree	Critically Endangered	Y	Y
Syzygium syzygioides	Kelat Hitam	Myrtaceae	Tree	Vulnerable	Y	NA
Tinospora macrocarpa	-	Menispermaceae	Climber	Vulnerable	Y	NA

[1] (Davison et al., 2008; Chong et al., 2009; Lindsay, et al., 2022)

Table 4-5 Distribution of flora species by numbers and percentages (Combined data from current and past baseline)

Origin	National Status	Number of Species	Percentage of Species
Native		**111**	**48.5%**
	Least Concern	81	35.4%
	Vulnerable	17	7.4%
	Endangered	3	1.3%
	Critically Endangered	8	3.5%
	Extinct	1	0.4%
	Data Deficient	1	0.4%
Exotic		**101**	**44.1%**
	Cultivated only	13	5.7%
	Casual	24	10.5%
	Excluded	3	1.3%
	Naturalized	58	25.3%
	Not Evaluated	3	1.3%
Unknown		**17**	**7.4%**
	Cryptogenic	17	7.4%
Total Number of Species		**229**	**100%**

The complete list of flora species recorded in current and past baseline is provided in **Appendix B.** Photographs of some of dominant plant species are presented in **Appendix C**.

4.4.3.2. Vegetation and Habitat Mapping

Abandoned Kampung was the most commonly encountered habitat type throughout the forested areas of the study site, with a total area of approximately 8.83 hectares scattered throughout Northern and Southern portion of study area. The canopy of this habitat is dominated by mature Rambutan (*Nephelium lappaceum*), Rambai (*Baccaurea motleyana*), Durian tree (*Durio zibethinus*) at canopy, and Fishtail palm (*Caryota mitis*) and Wild Pepper (*Piper sarmentosum*) at understorey. The Abandoned Plantation occur mainly at Southern portion of study area closer to existing residential area, accounting for about 1.50 hectares in total. The Abandoned Plantation is dominated by Rubber Tree (*Hevea brasiliensis*) at canopy, Oil Palm (*Elaeis guineensis*), Wild Cinnamon (*Cinnamomum iners*) at middle and understorey. Majority of the flora of conservation significance are found in Abandoned Kampung habitat.

Albizia trees (*Falcataria falcata*) are found to be locally abundant at northern portion of Miltonia forest, yet they occur sporadically at the southern portion of study area and do not form continuous emergent canopy, thus most habitats at Southern portion of the Miltonia Forest is still classified as Abandoned Kampung or Abandoned Plantation. At northern portion, *Falcataria falcata* and African Tulip Tree (*Spathodea campanulata*) occur in larger quantity, and despite of some pockets of native-dominated young secondary forests, many areas at northern portion are classified as Exotic-Dominated Secondary Forest. The small patch of Native Dominated Young Secondary Forest

consists of native species such as Kenidai (*Bridelia tomentosa*), Jarak Kayu (*Claoxylon indicum*), Fishtail Palm (*Caryota mitis*) and *Macaranga sp*.

Scrubland/Grassland is another major habitat type encountered throughout study area, and they often occur in small or large pockets within or outside forested areas. Some parts of the Scrubland/Grassland made multiple quadrats and subplots inaccessible due to dense thickets of Simpoh Air (*Dillenia suffruticosa*) and False Manihot (*Manihot esculenta subsp. Glaziovii*). Wherever such pockets were encountered, photos were taken and the location was plotted and marked as inaccessible. Other than the aforementioned two species, other relative accessible Scrubland/Grassland were dominated by Elephant Grass (*Cenchrus purpureus*), Giant Sword Fern (*Nephrolepis biserrata*), Giant Taro (*Alocasia macrorrhizos*), Mile-a-Minute weed (*Mikania micrantha*), Skunkvine (*Paederia foetida*) and *Camonea sp*. At edge of Southeastern portion of Study Area, *Tinospora macrocarpa* were observed to be locally abundant. Some parts of scrubland/grassland near beginning of walking transect was regularly inundated due to proximity to stream, and water loving plants such as *Ludwigia peruviana* and *Monochoria sp*. Had been found growing at such areas.

Table 4-6 Summary of habitat types found within the project site.

Habitat Type	Area (ha)	Relative Area (%)
Abandoned Kampung	8.83	46.57
Abandoned Plantation	1.50	7.89
Exotic-dominated Secondary Forest	1.52	8.04
Freshwater Pond	0.004	0.021
Natural Stream	0.084	0.443
Native-dominated Young Secondary Forest	0.78	4.09
Scrubland	4.60	24.28
Urban Vegetation	1.64	8.67
Total	**18.96**	**100**

A Naturalized stream occurs in the study area where the stream flows into a canal leading to Orchid Country Club. Mangrove ferns (*Acrostichum aureum*) and other water loving plants such as *Ludwigia sp.* And Yerba de Faja (*Struchium sparganophorum*) were observed at the habitat.



Figure 4.5 Habitat map of the project site

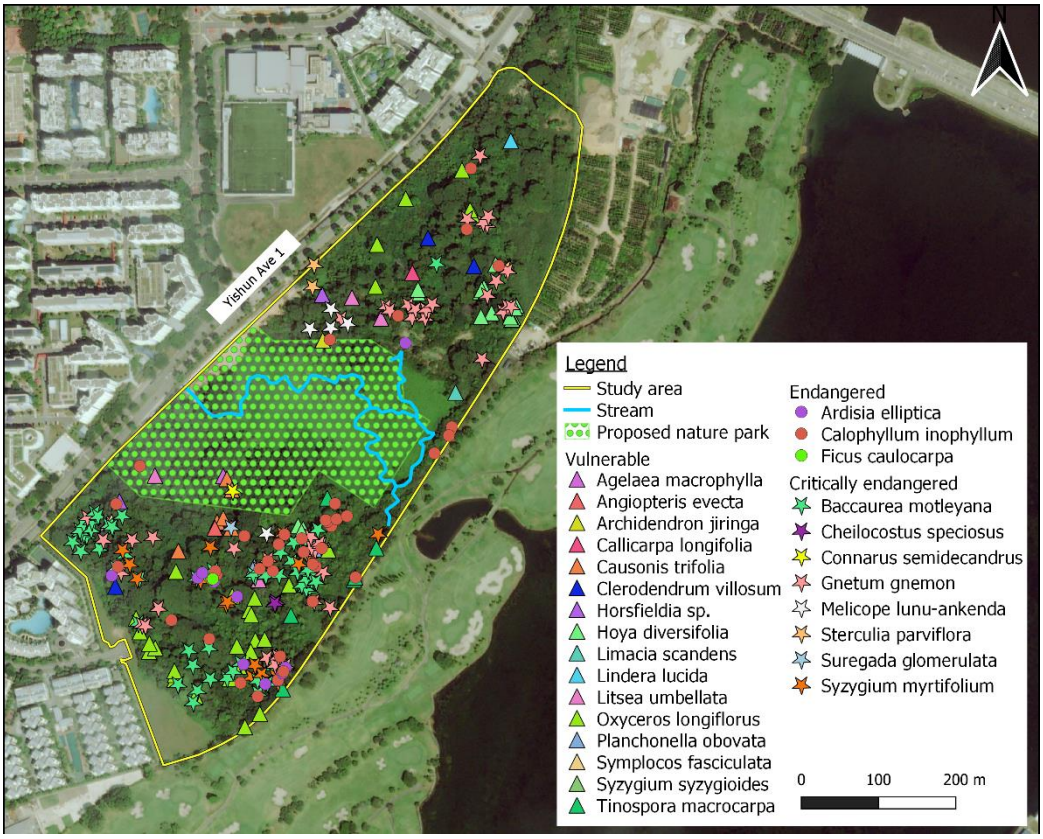


Figure 4.6 Distribution of conservation significant flora in the project site



Figure 4.7 Vegetation map of surveyed Critically Endangered flora



Figure 4.8 Vegetation map of surveyed Endangered flora

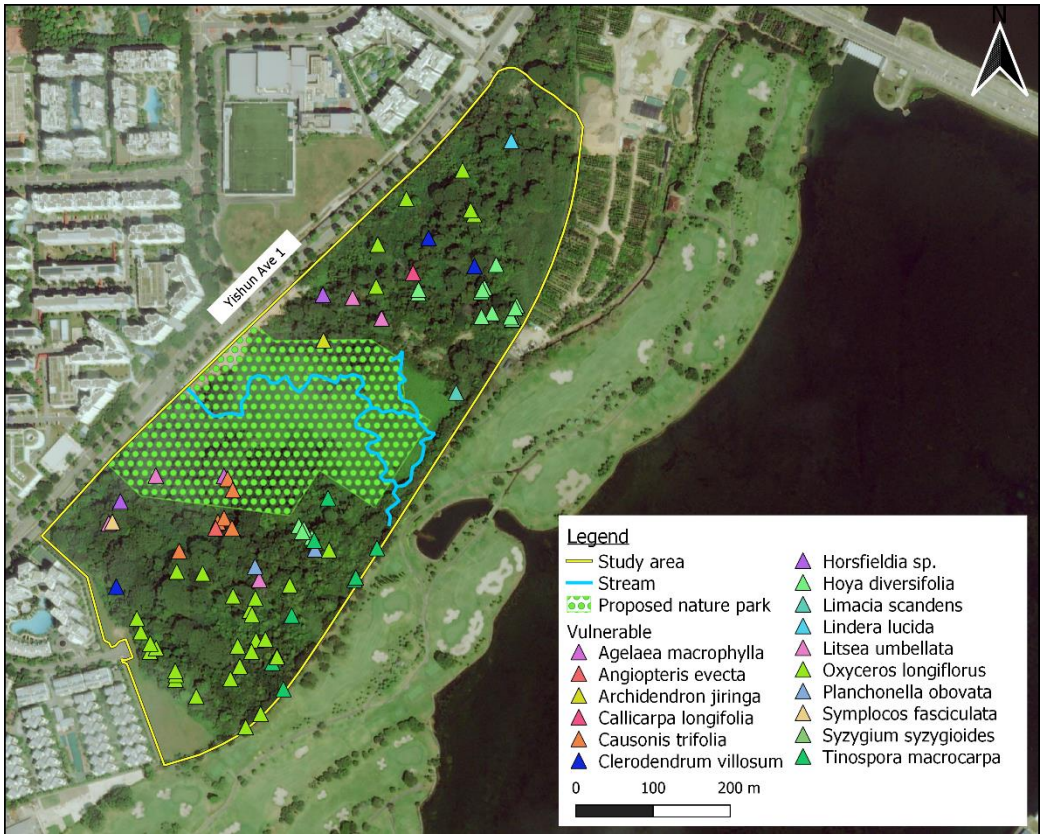


Figure 4.9 Vegetation map of surveyed Vulnerable flora

Summary of Flora Baseline

Outside the nature park area proposed by the past baseline, Miltonia forest has relatively limited native flora diversity and limited occurrence of flora of conservation significance. However, the clearance of study area will still affect a total of 17 Vulnerable, 3 Endangered and 8 Critically Endangered native flora species. To reduce the impact on biodiversity, it is recommended to avoid development around the endangered mature *Ficus caulocarpa*, and salvage other Conservation Significant flora where possible.

The current study found a higher number of flora species as compared to the previous study, with 105 of the 229 flora species recorded being new records. This could be attributed to the differences in study methodology utilised. The previous study looked at 10m x 10m vegetation while the current study made use of modified gentry plots (MGPs). MGPs require extensive ground coverage and recording of herbs at quadrats regardless of conservation significance status. Since the study area is of very heterogeneous habitat, extensive ground coverage allowed for the collection of species across all habitats and minimise the chance of missing certain habitat pockets.

4.5. Fauna Baseline Surveys

4.5.1. Survey Methodology

The fauna field assessment covered various fauna groups: birds, herpetofauna (reptiles and amphibians), mammals, odonates (dragonflies and damselflies), and butterflies. For

the natural, free-flowing streams within the site, aquatic surveys covering fish, molluscs, and decapod crustaceans were also conducted. The purpose of these surveys was to verify and update the baseline surveys previously conducted by AECOM (2021). Table 4-7 summarizes the survey methods and appropriate survey timings for each taxonomic group. Fauna species encountered outside their dedicated survey timings are also recorded.

Table 4-7 Survey timings, frequency, and methodology for each fauna group.

Taxonomic Group	Survey Timings	No. of surveys	Survey Methodology
Birds	0700 – 1100	2	Visual encounter survey; call recognition along transects
Mammals (non-volant)	0700 – 1000 2000 – 0000	2	Visual encounter survey; call recognition along transects
	24 hrs	1 month	Camera traps attached on tree trunks 30 cm above ground level
Mammals (bats)	1900 – 0700	3	Acoustic recording
Herpetofauna	0700 – 1100 2000 – 0000	2 diurnal, 2 nocturnal	Visual encounter survey; call recognition along transects
Butterflies	0900 – 1200	3	Visual encounter survey along transects
Odonates	0900 – 1200	3	Visual encounter survey along transects
Aquatic Fauna (fish, molluscs, decapod crustaceans)	Diurnal (0900 – 1500) Nocturnal (2000 – 0000)	1 diurnal, 1 nocturnal, 1 overnight trapping	Sweep sampling with dip/hand nets for diurnal. Visual detection for nocturnal. Baited traps for both, overnight

4.5.2. Visual Encounter Surveys

An updated baseline survey of fauna found in the study area was conducted along systematic transects, following available trails and roads that span the length of the proposed alignment (Figure 4.10Figure 4.10). A total of two diurnal surveys and two nocturnal surveys for dedicated groups were conducted. Visual observations were conducted by at least two observers along each transect. These surveys focused on birds, mammals, reptiles, amphibians, odonates, and butterflies. Animal tracks, scats, and locations of raptor nests were also recorded.

Point count surveys were conducted for birds. These involved observers staying at a fixed location and recording the number of birds identified by sight and sound over a specific duration. Point count surveys were conducted for 5 minutes per point in non-forested areas and 10 minutes per point in forested areas. In forested areas, an additional 5 minutes was given to allow birds to settle after any initial disturbance from the surveyors. For mammals, herpetofauna, odonates, and butterflies, visual encounter surveys were conducted along the same transects, with observers walking at a slow, steady pace, to record all animals seen and heard along each transect. GPS locations for each species observed as well as the number of individuals detected were also recorded.

Both day and night surveys were conducted because a large proportion of the target

groups, particularly mammals and herpetofauna (reptiles and amphibians), are predominantly nocturnal.

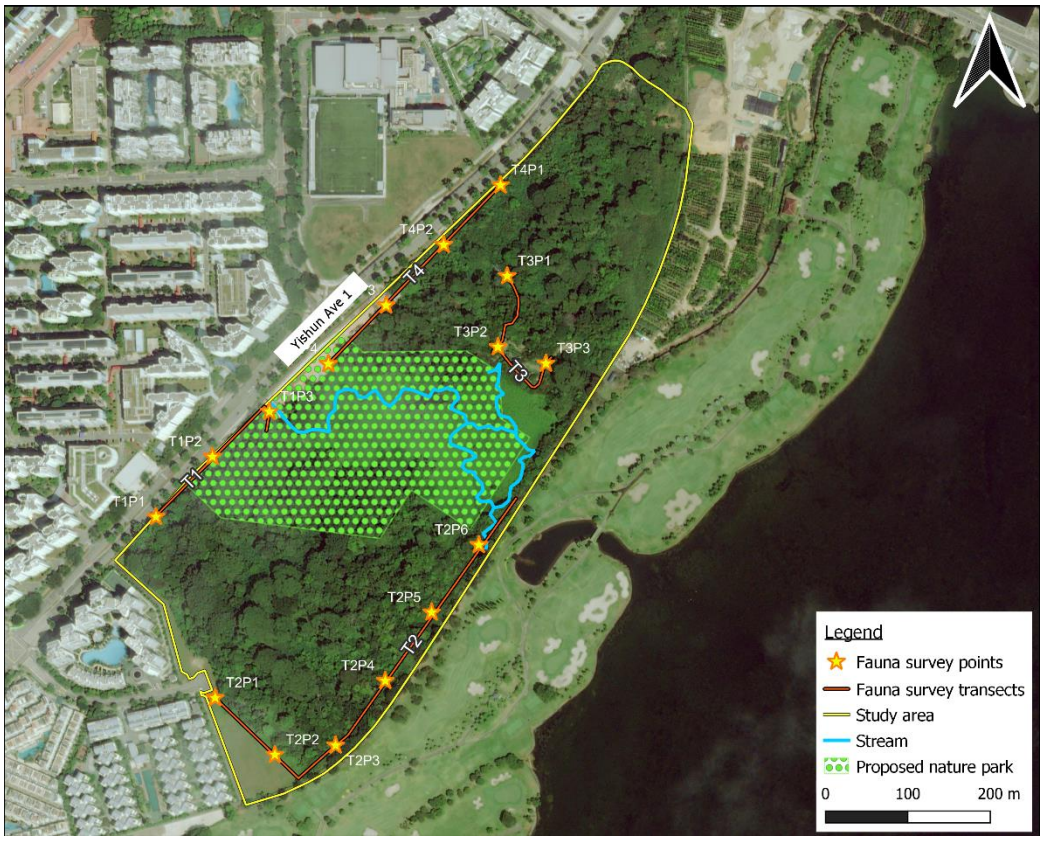


Figure 4.10 Fauna survey transects in the project study area

4.5.3. Camera Trapping

To supplement the visual encounter surveys, camera trapping was also conducted within the project study area (Figure 4.11, Figure 4.12). This method is particularly useful for elusive or rare animals that are not often observed during visual encounter surveys. While a variety of animals were captured in the camera traps, these traps mainly target medium to large ground-dwelling mammals. A total of five camera traps were deployed over a period of one month. These cameras were secured on tree trunks at about 30 cm above ground level. The camera traps were programmed to be active 24 hours a day, with the camera capturing three photos and a 10 second video each time it is triggered.

Table 4-8 Coordinates of the camera traps within project study area

ID	Latitude (°N)	Longitude (°E)
CAM1	1.423228	103.85226
CAM2	1.422102	103.852376
CAM3	1.42114	103.849891
CAM4	1.420082	103.852191
CAM5	1.419083	103.850212



Figure 4.11 Example of a camera trap setup



Figure 4.12 Location of camera traps within project study area

Acoustic Bat Surveys

Acoustic bat surveys were conducted twice along transects and once along the stream transect. As far as possible, bats were identified to species level based on the recordings, spectrograms obtained and availability of call library data. Locations of large bamboo clusters used or have potential to be used by bamboo bats were also recorded on site.

Acoustic sampling was performed using a handheld Echo Meter Touch 2 Pro (Wildlife Acoustics, Inc.) attached to an iPad (Apple, Inc.) during nocturnal terrestrial transects. The Echo Meter functions by detecting ultrasonic sounds in real-time and converting them into audible digital signals that can be heard and visualized using the Echo Meter Touch App on the iPad. Each time sounds resembling a bat call is detected, it is automatically recorded and saved onto the iPad as a 16-bit WAV file.

Bat call structure was then analyzed using Kaleidoscope v.5.4.7 (Wildlife Acoustics, Inc.). Key call structure parameters include call shape, frequency (kHz) and duration (ms). Each echolocation recording was identified to species level based on call shape, frequency (minimum, maximum, and peak) and call duration (Pottie et al., 2005). Once these parameters were inspected, the results were compared to Pottie et al. (2005) who provided bat echolocation signatures for several species in Singapore and TAC's internal database from past surveys.

The echolocation calls of bats can be used to Identify bats to species as they are unique to each species (Fenton & Bell, 1981). However, call structure varies depending on habitat type and foraging mode (Schnitzler et al., 2003). Microchiropteran bats use echolocation to navigate through their environment and locate food (Schnitzler et al., 2003), whereas megachiropteran bats rely on their vision and do not echolocate. Thus, visual encounter surveys were used to detect megachiropteran bats.

Aquatic Surveys

Surveys were conducted along freshwater streams within the project area. One night survey and one diurnal survey were conducted at all five points, focusing on freshwater fishes, decapod crustaceans, and molluscs such as gastropods and bivalves. 10-minute point count surveys were conducted at points along any streams or ponds. Surveys relied on visual detection as well as hand-netting. In addition, baited cage traps were deployed for fishes and decapod crustaceans.

Baited traps were left on-site for at least 12 hours before retrieval. A portion of the traps remained above the water surface to reduce the risk of drowning of air-breathing species. All aquatic fauna caught by hand netting or baited traps were sorted, photographed, and identified to species or family level where possible, before being released. The survey locations are indicated in Figure 4.13.



Figure 4.13 Location of aquatic surveys within project study area

4.5.4. Survey Results

The complete list of fauna sightings and photographs of observed animals can be found respectively in **Appendix D** and **Appendix E**.

4.5.4.1. Birds

The current surveys yielded 46 species of birds within the project site, of which 8 are locally threatened and 3 are globally threatened or near threatened (refer to Table 4-9 for the list of species of conservation value and Figure 4.14 for the number of threatened bird species at each point count location). Together with the data from AECOM (2021), this brings the number of birds observed on the project site to at least 71. Locally Endangered species include the purple heron (*Ardea purpurea)* and straw-headed bulbul (*Pycnonotus zeylanicus*). The straw-headed bulbul is also listed as globally Critically Endangered.

Other globally threatened species include the Vulnerable long-tailed parakeet (*Psittacula longicauda*) and Javan myna (*Acridotheres javanicus*). However, the Javan myna is an introduced species in Singapore, and not of significant conservation value in Singapore.

Table 4-9 List of all bird species of conservation value found in the project study area

No.	Species name	Common Name	Local Status	Global Status

1	*Ketupa ketupu*	Buffy fish owl	VU	LC
2	*Pycnonotus zeylanicus*	Straw-headed bulbul	EN	CR
3	*Nisaetus cirrhatus*	Changeable hawk-eagle	VU	LC
4	*Ardea purpurea*	Purple heron	EN	LC
5	*Copsychus saularis*	Oriental magpie-robin	VU	LC
6	*Zosterops simplex*	Swinhoe's White-eye	VU	LC
7	*Ixobrychus sinensis*	Yellow Bittern	VU	LC
8	*Lanius cristatus*	Brown Shrike	VU	LC
9	*Acridotheres javanicus*	Javan myna	–	VU
10	*Psittacula longicauda*	Long-tailed parakeet	–	VU



Figure 4.14 Locations of threatened bird species from current surveys

Several species observed within the site are birds associated with forest habitat, including the straw-headed bulbul and the blue-crowned hanging parrot. The detection of these species on the project site could indicate the site's importance as habitat and foraging ground for such species.



Figure 4.15 Globally Critically Endangered and Locally Endangered straw-headed bulbul in project study area

The straw-headed bulbul is also a noteworthy species given its globally Critically Endangered status. While populations of straw-headed bulbuls on Singapore's mainland have been stable over the past few years, this species' numbers in the rest of Southeast Asia have been declining (Yong, et al., 2017). Singapore is an important stronghold of this species, and its habitat needs to be preserved for its continued persistence.

There were also two raptor nests detected on the site, both on Albizia trees (Figure 4.16). It is uncertain if the nest is currently in use. However, white-bellied sea eagles were heard calling in the vicinity of the nest, and it is probable that the nest belongs to this species. There was also a sighting of a juvenile changeable hawk-eagle during the surveys. While no nest was detected, it is likely the individual's nest was within the study area.



Figure 4.16 Picture of a raptor nest found on the project site

The large number of Albizia trees in the northern part of the project site provides suitable nesting sites for large birds, particularly raptors. As raptors are known to sometimes reuse old nests (Poonswad, 1999; Gunawan & Noske, 2017), the presence of existing nests and cavities on this site potentially important for threatened bird species such as changeable hawk-eagle.

4.5.4.2. Mammals

There are currently about 74 species of mammals extant in Singapore. A total of 5 non-volant and 6 volant mammals (i.e., bats) were encountered within the project site in the recent surveys. These mammals were detected through bat acoustic surveys, walking transects, and camera trapping. Two species of conservation value, the smooth-coated otter (*Lutrogale perspicillata*) and a bamboo bat (*Tylonycteris sp.*) were recorded, both during previous surveys (Table 4-10). There was also one tentative record of the nationally Near-threatened Malayan colugo (*Galeopterus variegatus*). This was captured in only one camera trap image. Together with the data from previous survey (AECOM, 2021), the total number of mammal species observed on the project site is at least 15.

There were a large number of feral dogs (*Canis lupus*) within the project site. These dogs are likely to be fed by frequent visitors within the existing farmland areas, as dog food and other leftover food had been observed during site visits.

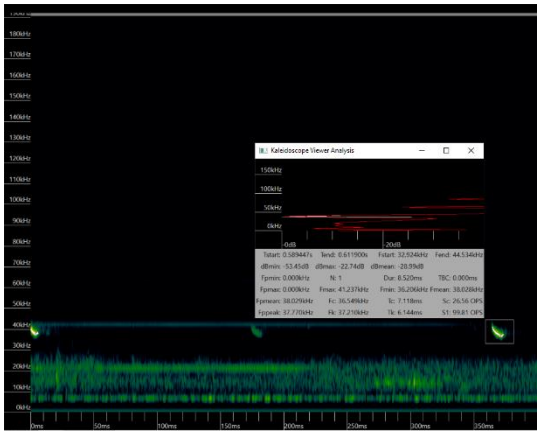
Table 4-10 List of mammal species of conservation value found in the project study area

No.	Species name	Common Name	Local Status	Global Status
1	*Lutrogale perspicillata*	Smooth-coated otter	EN	VU
2	*Tylonycteris sp.*	Bamboo bat species	VU	LC

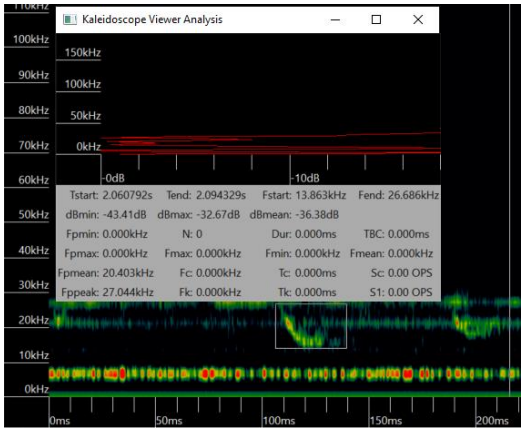
Singapore's bat species diversity is ambiguous. In an analysis of Singapore's bat fauna, Lane et al. (2006) concluded that 30 species of bats were documented in Singapore (six Megachiroptera and 24 Microchiroptera), with 10 species considered as having gone extinct. However, they inferred that prior to 1819 between 60 to 72 species occurred in Singapore (Lane et al., 2006). At the time of their publication, species diversity had

declined to 20 (five Megachiroptera and 15 Microchiroptera), five fewer than what Baker and Lim (2012) had listed in their book. In the updated Singapore Red Data Book, NParks (2022) lists Singapore's bat species richness at 31 (five Megachiroptera and 26 Microchiroptera). Two recently recorded species (long-winged tomb bat [*Taphozous longimanus*] and big-eared pipistrelle [*Hypsugo macrotis*]) represent new records for Singapore and are only known from Pulau Ubin (Yang, 2018).

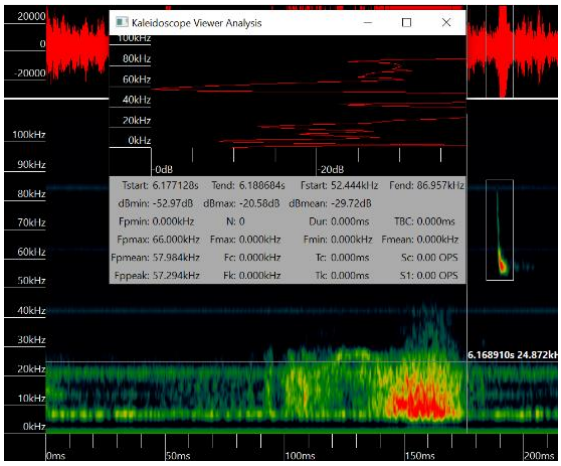
Three nights of bat acoustic surveys were conducted, split between two nights covering set transects, and one night covering the stream transect. Of the mammal species found on site, 7 of these species are bats. Acoustic sampling during the past and present surveys at the study area resulted in 6 species, while the lesser dog-faced fruit bat (*Cynopterus brachyotis*) was recorded during nocturnal visual encounter surveys. Only the bamboo bat (*Tylonycteris sp.*) was not recorded during present surveys, but from previous surveys (AECOM (2022). The spectrograms for the 5 confirmed bat species recorded during acoustic sampling are presented in Figure 4.17 .



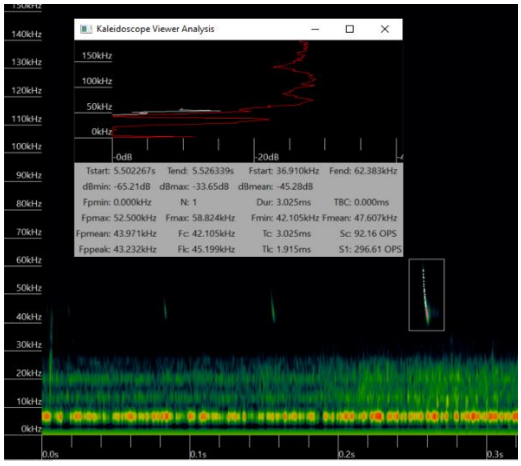
Pipistrellus stenopterus



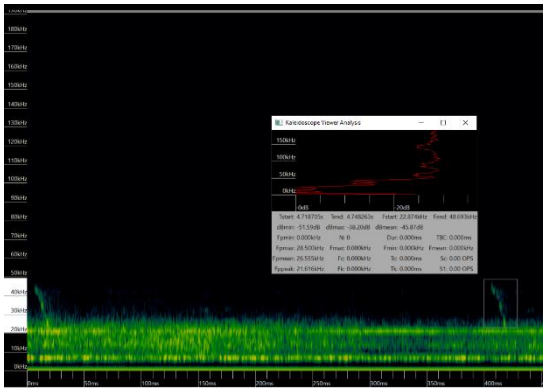
Taphozous melanopogon



Myotis muricola



Scotophilus kuhlii



Saccolaimus saccolaimus

Figure 4.17 Spectrograms showing acoustic call characteristics of detected bat species

In general, the lesser Asian house bat (*Scotophilus kuhlii*) was the most common, found in majority of transects within the study site. The transect with the highest species diversity was forest transect with the only detection of the pouched tomb bat (*Saccolaimus saccolaimus*).

Although the black-bearded tomb bat (*Taphozous melanopogon*) was mostly detected along transects within forested and vegetated areas it was also detected at one transect along Yishun Ave 1. The transects along Yishun Ave 1 mostly yielded few species, likely due to the constant noise generated by vehicles using the road.

There were several clumps of bamboo on the site, and bamboo bats (*Tylonycteris spp.*) were detected emerging during the last round of baseline surveys (AECOM, 2021). Both species of bamboo bats, the greater bamboo bat (*T. malayana*) and the lesser bamboo bat (*T. fulvida*) have been listed as Vulnerable in the recent update of the Singapore Red Data Book. The presence of bamboo bats in this site indicates the importance of the existing bamboo clumps for their survival. Bamboo bats were not detected during the current round of surveys. However, it is likely that they are still found in this site.

4.5.4.3. Reptiles

Singapore holds a relatively high diversity of reptiles, with at least 109 species being found in Singapore. A total of 10 reptile species were recorded on the project site during the present surveys. All the reptile species observed during the current surveys are common. With additional data from AECOM (2021), the total number of reptiles observed on the project site is at least 12.

Previous surveys (AECOM, 2021) had detected the red-tailed pipesnake (*Cylindrophis ruffus*), within the freshwater stream. The sighting of this species is significant, as there have only been a few records of this species in Singapore. However, this species was recently reassessed as Vulnerable in Singapore. The red-tailed pipesnake was not detected during the current round of surveys. However, as this species is elusive and difficult to detect, it is assumed that this species can still be found on the project site. The presence of this species indicates the importance of the swamp and freshwater stream as habitats for stream and swamp fauna specialists.

During the current surveys, there was also one record of the Malayan box terrapin (*Cuora amboinensis*), which is listed as Near-threatened in Singapore, and globally Vulnerable. Some of the individuals found in Singapore might be released animals from the pet trade.

There was also one detection of the Chinese softshell turtle (*Pelodiscus sinensis*), which is considered globally Vulnerable. However, this species is not native, and is not considered to be of conservation significance in Singapore.

Table 4-11 List of reptile species of conservation value found in the project study area

No.	Species name	Common Name	Local Status	Global Status
1	*Cylindrophis ruffus*	Red-tailed pipe snake	VU	LC
2	*Cuora amboinensis*	Malayan box terrapin	NT	VU
3	*Pelodiscus sinensis*	Chinese softshell turtle	-	VU



Figure 4.18 Locations of threatened reptile species from current surveys

Other reptile species found during the surveys are considered widespread and common except the green crested lizard (*Bronchocela cristatella*), which is widespread but uncommon in Singapore. Three species, the changeable lizard (*Calotes versicolor*), the red-eared slider (*Trachemys scripta elegans*), and the abovementioned Chinese softshell turtle, are introduced species in Singapore.

It is likely that the number of reptile species observed on the site is under-represented due to the nature of most reptile species. Reptiles are generally elusive, and many species are not observed frequently in surveys.

4.5.4.4. Amphibians

There are currently 30 species of amphibians known from Singapore. However, the diversity of amphibian species present is largely dependent on the quality and variability of habitats, particularly waterbodies and streams, present in the site. This is especially because amphibians depend on aquatic habitats for their survival during the juvenile stage.

During the present surveys 9 amphibian species were found on the project site. All the species observed were not listed as locally or globally threatened. Only the Malayan giant frog (*Limnonectes blythii*) is considered near-threatened globally (Figure 4.19). This species is found in many natural streams in Singapore. Together with the data from AECOM (2021) this brings the number of amphibians observed on the project site to at least 11.



Figure 4.19 Malayan giant frog found in project site.

Three of the species recorded have been introduced to Singapore: the greenhouse frog (*Eleutherodactylus planirostris*), banded bullfrog (*Kaloula pulchra*), and Mukhlesur's narrow-mouthed frog (*Microhyla mukhlesuri*). The Gunther's frog (*Sylvirana guentheri*), which was detected in previous surveys, was not detected during the recent surveys. The greenhouse frog is a recent introduction to Singapore. Originating from Cuba, the Cayman Islands, and Northern Bahamas, the greenhouse frog is an introduced species that was first detected in Singapore at Sembawang (Groenewoud & Law, 2016). As this species is a direct developer, it does not go through the tadpole stage and hatches into small frogs from eggs laid in moist leaf axils or leaf litter (Kraus & Campbell, 2002). It was likely introduced to Singapore through the horticultural trade.

The low diversity of amphibians on this site, particularly of rare or threatened species, was expected. Given the specific requirements for waterbodies that many species have, amphibians of conservation value in mainland Singapore are restricted to the mature forests of the Central Nature Reserves and its surrounding areas.

A study has found that increased ammonium nitrate concentrations could lead to high mortality rate of tadpoles and reduced juvenile body size and delayed metamorphosis (Capper, 2006). Given the relatively high concentrations of ammoniacal nitrate and TSS levels (Table 5-7 and Table 5-8), those factors could potentially contribute to lower amphibian diversity.

4.5.4.5. Terrestrial Invertebrates

Butterflies

Singapore is home to about 338 species of butterflies. At least 22 butterfly species were recorded within the project site during the present surveys, all of which were either Common, Moderately Common, or Moderately Rare. The current study recorded a

moderately rare species of the palm king (*Amathusia phidippus phidippus*). The previous surveys by AECOM (2021) also detected two other moderately rare species. One of which is the forest hopper (*Astictopterus jama jama*), which was listed as Nationally Extinct in Singapore, and was apparently a rediscovery in recent years (Jain et al., 2018). Due to the relative difficulty of field identification, this sighting may not be of conservation significance (AECOM, 2021). Including data from AECOM (2022), the total number of butterflies observed on the site amounts to at least 38.

Table 4-12 List of butterfly species of conservation value within project study area

No.	Species name	Common Name	Local Status (***Butterflies of Singapore***, 2nd ed)
1	*Astictopterus jama jama*	Forest Hopper	Moderately Rare
2	*Amathusia phidippus phidippus*	Palm King	Moderately Rare
3	*Melanitis leda leda*	Common Evening Brown	Moderately Rare



Figure 4.20 Locations of threatened bird species from current surveys

Of the three Moderately Rare species, the palm king and common evening brown can be found in urban parks and gardens where their host plants, respectively the coconut palm (*Cocos nucifera*) and guinea grass (*Megathyrsus maximus*), are found. The only forest-dependent butterfly found during the surveys was the forest hopper.

Odonates

At least 133 species of odonates are currently known from Singapore. Of these, 15 odonates (dragonflies and damselflies) were found within the project site during the present surveys. All the odonate species recorded are widespread and none are of significant conservation value. Together with the data from AECOM (2021), the number of odonates observed on the project site is at least 20.

In Singapore, all species of odonates that are no longer found here had faced extirpation due to the loss of key forest habitats they dependent on for their survival (Tang et al., 2010). Much like amphibians, odonates are dependent on waterbodies for survival during their juvenile stage, and their diversity in each site is determined by the quality and variety of waterbodies present.

Based on the current surface water quality sampling (Table 5-7 and Table 5-8), most of the water quality parameters lie within the allowable limits as listed by NEA (2020). However, the measurement for total suspended solids and ammoniacal nitrogen is exceedingly past the limit. These conditions might make it less favourable for odonates to thrive in. Increased suspended solids in riparian habitats have been found to affect aquatic insect habitats (Agriculture and Resource Management Council of Australia and New Zealand, 2000). However, the presence of odonates in these streams despite the conditions suggests that water quality may not be the main controlling factor of odonates presence. Tippler *et al.* (2018) concluded that the presence of odonates nymphs are generally controlled by the riparian habitat as a whole rather than the water quality itself.

4.5.4.6. Aquatic Fauna

8 aquatic fauna species were detected in the project study area during these surveys, covering 4 freshwater fish species and 4 molluscs. One of the mollusc was the locally rare *Pila scutata* apple snail. The previous study also recorded a globally Vulnerable Common Carp (*Cyprinus carpio*), however, this is an introduced species in Singapore and not considered to be of conservation significance. Together with the AECOM (2021) data, 12 aquatic fauna species are known in the study area.

Table 4-13 Aquatic fauna species in study area

Species Name	Common Name	AS-1	AS-2	AS-3	AS-4
Freshwater Fish					
Barbodes rhomebus	Indochinese Spotted Barb			Y	Y
Channa striata	Common Snakehead		Y	Y	Y
Poecilia reticulata	Guppy	Y	Y	Y	Y
Gambusia affinis	Mosquitofish			Y	
Molluscs					
Melanoides tuberculata	Malayan Trumpet Snail		Y	Y	Y
Pila scutata	Apple Snail				Y
Physa acuta	Acute bladder snail	Y	Y		Y
Amerianna carinata	Keeled Ramshorn		Y		
	Total	**2**	**5**	**5**	**6**



Figure 4.21 Location of rare aquatic fauna species from current surveys

Among the aquatic species recorded, the rare *Pila scutata* apple snail is of conservation significance. The apple snail, while once common and widespread in Singapore, is now considered rare, with their numbers have been reduced for several reasons, including the introduction of the non-native snail *Pomacea scutata* (Tan et al., 2013).

Of the 4 freshwater fish species found, 3 were introduced species. These include the guppy (*Poecilia reticulata*), mosquito fish (*Gambusia affinis*), and Indochinese spotted barb (*Barbodes rhomebus*). The common snakehead (*Channa striata*) was the only native freshwater fish observed during the present surveys, although the oriental climbing perch (*Anabas testudineus*) and the threespot gourami (*Trichopodus trichopterus*) were observed during past surveys. All freshwater fish species observed are common and considered to be of Least Concern in Singapore.



Figure 4.22 From left to right: Pictures of a Common snakehead (*Channa striata*), top and bottom of the apple snail (*Pila scutata*)

For the most part, the water quality of the stream fall within Singapore's standards

(National Environment Agency, 2020). While there are standards for water quality per se, there are no strict water quality standards for biodiversity. Therefore, multiple sources were used to better understand how aquatic fauna might be affected by water quality (Ministry of Natural Resources and Environment of Vietnam, 2011; Agriculture and Resource Management Council of Australia and New Zealand, 2000). Suspended sediments can be a potential stressor to species richness and abundance of aquatic life (Ortiz-Santaliestraa, 2012). In some cases sublethal effects associated with anoxia and lowered immune system function are observed in fishes as stress response to suspended solids exposure. Additionally, the decrease in water clarity can affect aquatic organism foraging behaviour and efficiency due to impaired vision (Agriculture and Resource Management Council of Australia and New Zealand, 2000).

The only species of conservation value found was the native apple snail, which is rare in Singapore, but is tolerant of disturbed environments, and was known to exist in many ditches and ponds around Singapore (Tan et al., 2013).

4.5.4.7. Camera Trapping

Five camera traps were deployed for a total of 31 nights, between 05 July and 05 August 2022. As the camera traps took a sequence of three photos and a 10-second video each time they were triggered, the photos were grouped according to respective sequences. Sequences separated by more than 60 s were assumed to be independent sightings.

A total of 789 independent sightings (Figure 4.23) identified from 2308 photos of 13 identified fauna species were collected from the camera traps. For every camera trap, each independent sighting was sorted into their respective taxonomic groups and shown in Figure 4.23 below.

Bird sightings dominated the detections in Camera 4, of which 463 out of the 471 bird sightings were the white-breasted waterhen (*Amaurornis phoenicurus*). On the other hand, majority of the detections in Cameras 1, 2, and 4 were comprised of mammal sightings. The most frequently recorded species here are the feral dog (*Canis lupus familiaris*) and the plantain squirrel (*Callosciurus notatus*). There were 67 independent sightings of the feral dog and 68 independent sightings of the plantain squirrel across all the camera traps. As for Camera 5, there was very few (<10) independent sightings each.

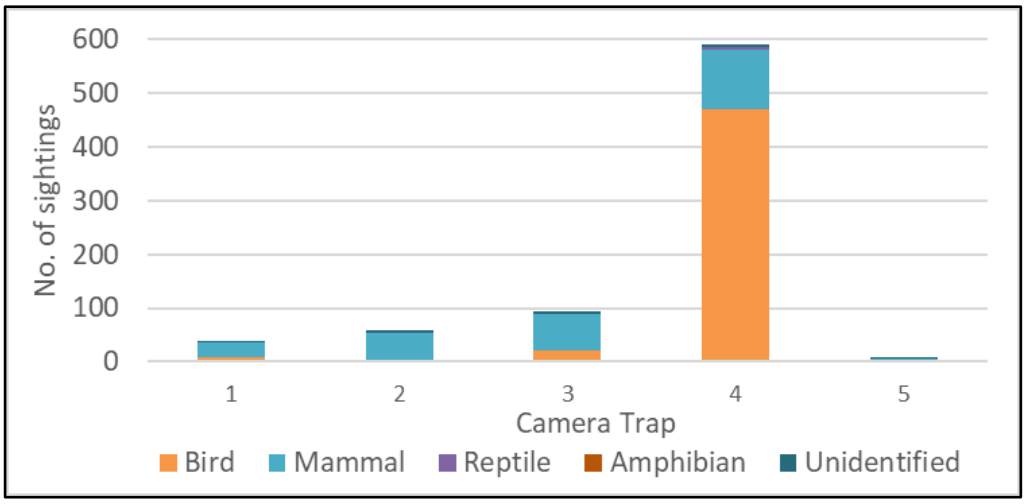


Figure 4.23 Number of sightings based on taxonomic groups from each camera

Table 4-14 Number of sightings from each camera by species (*=locally threatened species)

Species	Cam 1	Cam 2	Cam 3	Cam 4	Cam 5
Common sun skink	0	0	6	0	0
Common treeshrew	1	6	1	39	0
Emerald dove	1	0	0	0	0
Feral dog	15	24	22	22	4
Javan myna	1	0	0	0	0
Laced woodpecker	4	0	2	3	0
Malayan water monitor	0	0	0	5	0
Oriental magpie-robin*	0	0	0	0	2
Plantain squirrel	11	11	34	12	0
Spotted dove	0	0	2	2	0
Malayan colugo	0	0	0	0	1
White-breasted waterhen	2	0	7	463	0
Yellow-vented bulbul	0	0	2	0	0
Unidentified	1	6	4	4	1
Unidentified bird	0	0	3	3	0
Unidentified frog	0	0	0	1	0
Unidentified rodent	2	12	11	36	0
Total Number of Detections	38	59	94	590	8
Total Number of Identified Species	9	5	11	11	4

Interesting bird sightings from the camera traps include the Oriental magpie-robin (*Copsychus saularis*), which are listed as locally Endangered (Davison et al., 2008). The Oriental magpie-robin is an uncommon resident breeder (Davison et al., 2008), it typically forages in trees as well as on the ground in secondary forests (Singapore Birds Project, 2022). This species was detected from Camera 5, which was located within the forest.



Figure 4.24 Picture of an Oriental magpie-robin (*Copsychus saularis*), a locally Endangered species, captured by a camera trap

During night-time, the camera traps typically recorded rodents (*Rattus* spp.) and a tentative record of a Malayan colugo (*Galeopterus variegatus*). The Malayan colugo is a generalist that is mainly found in both primary and secondary forests and largely nocturnal in nature (Ou Yang, 2011).



Figure 4.25 Picture of a mammal that is likely a Malayan colugo (*Galeopterus variegatus*) captured by a camera trap

There were also sightings of the Yellow-vented bulbul (*Pycnonotus goiavier*), a common resident songbird found widespread in Singapore (Singapore Birds Project, 2022).



Figure 4.26 Picture of a Yellow-vented bulbul (*Pycnonotus goiavier*), a resident species, captured by a camera trap

The composition of species listed in Table 4-14 is plotted in Figure 4.27. Descriptions of the environmental setting of each camera trap have been included. Overall, camera traps in forested areas installed adjacent to a stream recorded more species than the camera traps located in non-forested areas and those not adjacent to any streams.

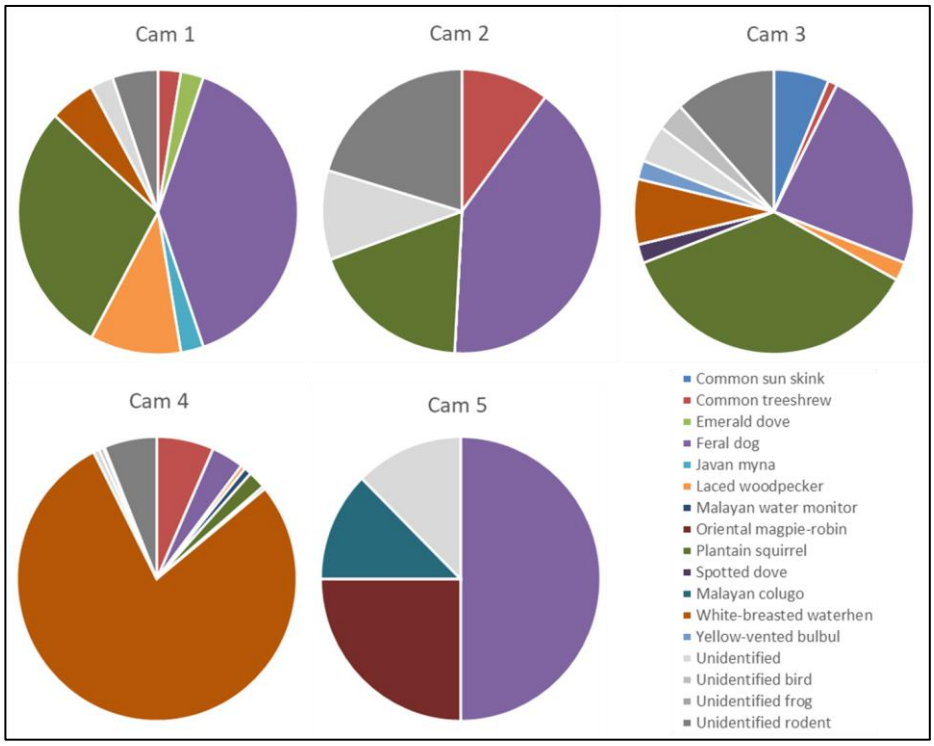


Figure 4.27 Composition of species from each camera trap

4.5.4.8. Summary of Species of Conservation Significance

In summary, 9 fauna species of local conservation value (defined as Vulnerable / VU and above) were found in this current survey. These include 7 bird species, 1 butterfly species, and 1 locally rare mollusc. Based on the rarity of the apple snail (*Pila scutata*) assessed by Tan et al. (2013), we have considered this mollusc as having conservation significance. All the mammals, reptiles, amphibians, and odonates found in the current survey were either listed as Near Threatened or below or had no assessed local conservation status. Together with an additional 7 species that were found from AECOM (2022) (2 birds, 2 mammals, 1 reptile, and 2 butterflies), a total of 16 fauna species of local conservation significance are known in the current project site.

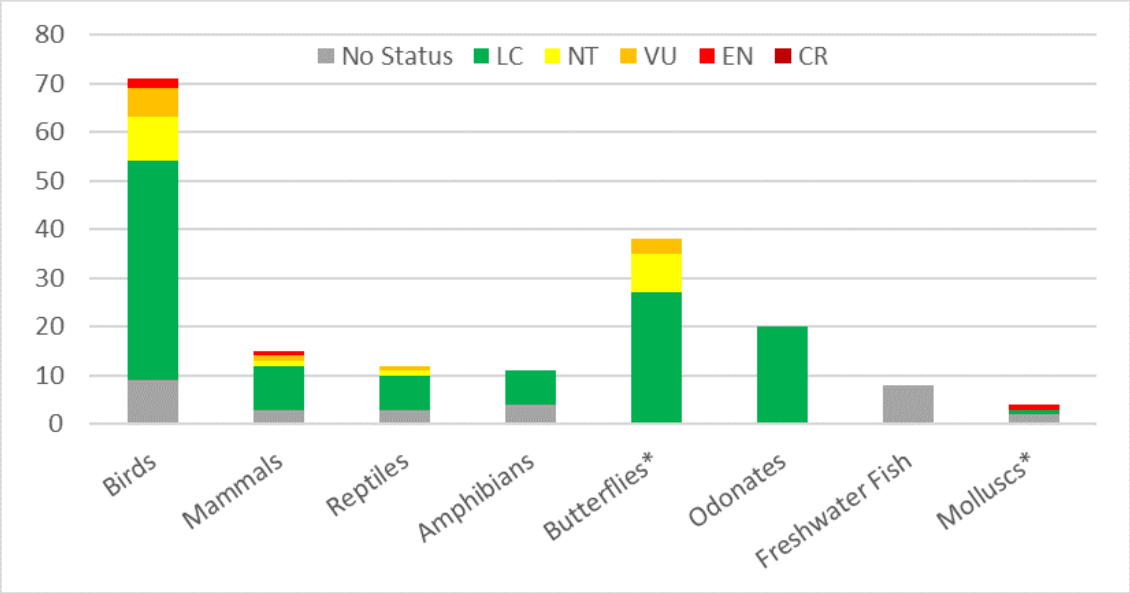


Figure 4.28 Local conservation status overview of species recorded within project study area
*For butterflies and molluscs, LC represents “Common”, NT “Moderately Common”, VU “Moderately Rare”, and EN “Rare”.

The surveys also recorded 3 bird and 1 reptile species of global conservation significance (defined as Vulnerable / VU and above) based on the IUCN Red List (2020). All the mammals, amphibians, butterflies, odonates and aquatic fauna found in the current survey were either listed as Near Threatened or below or had no assessed conservation status. With the additional species of 1 mammal, 1 reptile, and 1 freshwater fish from AECOM (2022), a total of 7 fauna species of global conservation significance are known in the overall area. In summary, 7 fauna species of global conservation significance are known in the current project site. Fauna not identified to species level have been excluded from this analysis.

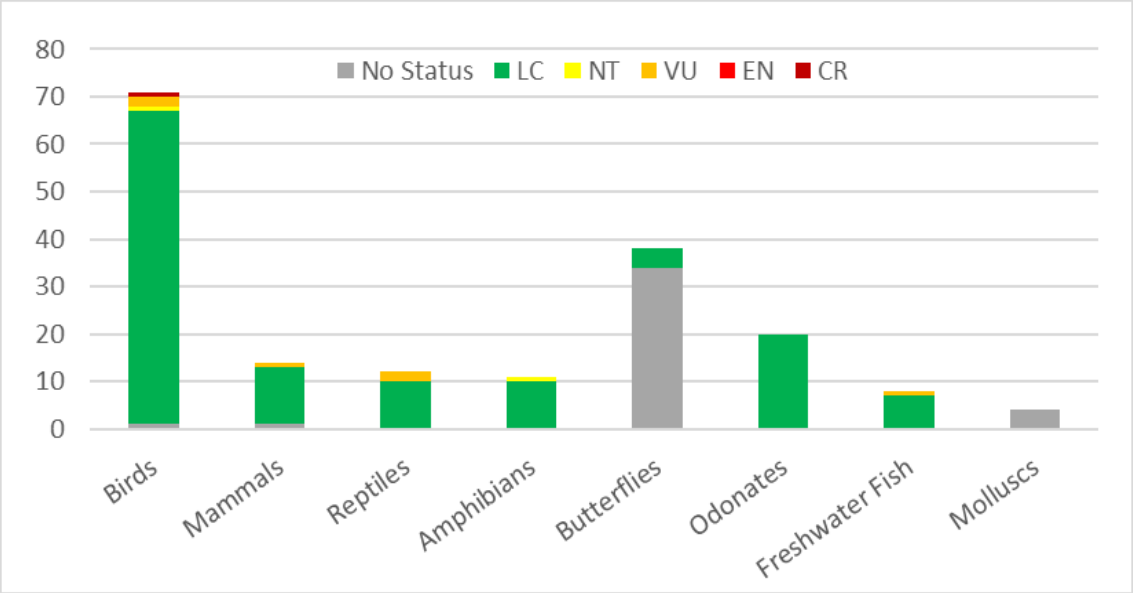


Figure 4.29 Global conservation status overview of species recorded within project study area

Overall locations of species of conservation values from the current study, both local and global, in relation to habitat types found in the project study area are presented in Figure 4.30.

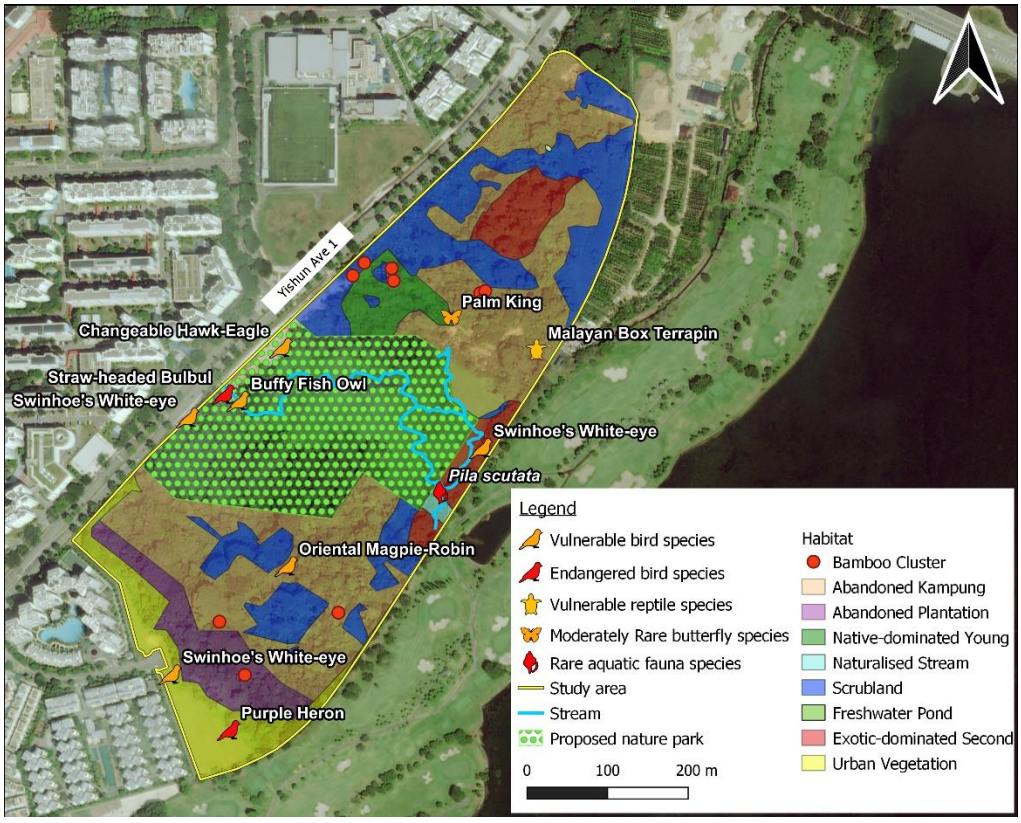


Figure 4.30 Location of species of local and global conservation value with regards to habitat types

Most species of conservation value detected consists of bird species. This is likely due

to the land use history of the site, where forest was cleared for multiple purposes through the 20th century. Without direct connection to intact forest habitats, there is limited opportunity for the movement of rare or threatened terrestrial animals into the site.

However, there are several bird species of conservation value recorded from the site. These threatened species are forest-associated birds, and their presence in the site reflects its importance as refuge and habitat to such species. The presence of forest species and migratory birds also demonstrates the importance of this site as a wildlife connector to other forested parts of Singapore.

Large-scale deforestation has resulted in a loss of much of Singapore's forested areas (Corlett R. , 1992), and the remaining forests, such as the forests surrounding the project site, are important for continued protection of rare and threatened species in Singapore. Additionally, due to this project site's role for ecological connectivity in Singapore, it was identified as a steppingstone habitat within the Khatib Nature Corridor under the Ecological Profiling Exercise conducted by the National Parks Board (NParks).

4.5.5. Summary of Flora and Fauna Baseline Results

The current study and past baseline study (AECOM, 2022) observed at total of at least 229 flora species and 179 fauna species (birds, mammals, reptiles, amphibians, butterflies, odonates, freshwater fish, and molluscs) within the project study area.

Abandoned kampung is the most common habitat type within project study area, found in both northern and southern portion of study area. Scrubland is the second most common habitat type, and some patches close to swamp has aquatic flora species on top of common Scrubland flora species. Patches of native-dominated young secondary forest and exotic-dominated secondary forest can be found in between the Abandoned Kampung and Scrubland.

Several species of conservation significance were not recorded in the previous baseline study, including Elephant fern (*Angiopteris evecta*), Long leaved beautyberry (*Callicarpa longifolia*), Panggil (*Clerodendrum villosum*), Kerenang (*Symplocos fasciculata*), Shiny Leafed Lindera (*Lindera lucida*) and *Tinospora macrocarpa*, endangered Sea-shore Ardisia (*Ardisia elliptica*) and critically endangered Tenggek Burong (*Melicope lunu-ankenda*).

Of the 229 flora species, 105 species were new records in the current study. The main reasons for the difference between previous and current findings are firstly, the spatial design of MGP. MGPs require extensive ground coverage and secondly recording of herbs at quadrats regardless of conservation significance status. Since the study area is of very heterogeneous habitat, extensive ground coverage allows collection of species across all habitats and minimise the chance of missing certain habitat pockets. Recording of herbs at quadrats regardless of conservation status also led to differences in the number of herb species collected (60 herb species in current study compared to 29 herb species in previous study). Together, both factors explain why more flora species were recorded in the current study compared to the previous study.

In terms of fauna, this area consists of several threatened species across taxonomic groups, including the straw-headed Bulbul (*Pycnonotus zeylanicus*), the buffy fish owl (*Ketupa ketupu*), and the rare apple snail (*Pila scutata*). Many of these threatened species depend on specific habitat requirements for their continued survival. The forest provides suitable condition for birds to nest, such as the locally Endangered changeable hawk-eagle (*Nisaetus cirrhatus*).

Running through the proposed nature park area is slightly swampy habitat containing a freshwater stream. This habitat is vital for the aquatic fauna found on the site, such as the locally rare *Pila scutata*.

In general, due to this site's land use history and its relative distance from other natural areas, there is a relatively low diversity of native flora and fauna species in the site, with a high number of introduced species. However, the presence of Albizia trees and tree cavities, as well as stream habitats, provide habitat and nest sites for several threatened species across different taxonomic groups. Additionally, the proposed project site falls within an identified ecological corridor, the Khatib Nature Corridor.

4.6. Impact Assessment

The proposed development includes earthworks, infrastructure works, and building works within a vegetated area. The area within the project footprint will be hoarded. Within the hoarding, the understorey vegetation will be cleared and the trees on the site will be felled. After which, earthworks to level the site will be conducted, and infrastructure, including sewer pipelines and drains, will be constructed. Following this, building works will commence, including both foundation works as well as the construction of superstructure.

The proposed nature park area, consisting of a freshwater stream and swampy habitat will be retained as part of the development. This will be converted to a nature park.

4.6.1. Identification of Sources of Potential Impacts

The pre-construction, construction, and post-construction phases of the project may have impacts on the natural environment. The main activity that may impact the sensitive biodiversity receptors is vegetation clearance, which may result in species mortality (for both flora and fauna) and habitat loss (mainly for fauna). Earthworks to level the existing terrain will also result in species mortality and habitat loss. Sources of impacts during the different phases of the project are identified as the following:

Pre-construction / Construction Phase

- Vegetation clearance for site access, storage of equipment, setting up of temporary hoarding, and other forms of working space (temporary)
- Vegetation clearance for soil investigation works (temporary)
- Vegetation clearance and damage to habitats due to earthworks, infrastructure works, and building works (permanent)
- Earthworks (backfilling/excavation) (permanent)

- Heavy construction activities such as piling (temporary)
- Vibration and noise from pipe jacking (temporary)
- Generation of light and noise (temporary)
- Surface runoff into streams on the project site (temporary)

Post-construction Phase

- Loss of habitats from development (permanent)
- Increased light and noise due to increased human activity (permanent)

The purpose of this section is to verify the findings of the impact assessment from the recent EIS conducted by AECOM (2022). Should there be any changes based on updated project information, this report will justify the changes in assessment.

4.6.2. Identification of Potential Impacts

This section summarises the potential impacts affecting biodiversity receptors that may take place during the pre-construction, construction, and post-construction phases.

Pre-construction / Construction Phase

The project involves the felling of a patch of forested area, which will result in direct impacts to the species and habitats present within the area. The following section details these impacts.

Species Disturbance and Mortality

For the purpose of impact assessment, focus is given to species that are either rare or globally/locally threatened according to the local and international databases. Section 4.4 and 4.5 discussed the composition of flora and fauna on the project site. The project site contains several species of conservation value, both flora and fauna. The impact of species mortality and disturbance will be direct and occur where vegetation needs to be cleared within working boundaries.

In particular, there are several rare or threatened bird species can be found on this site. While no bird species were currently observed to be nesting, there was one observation of a raptor nest within the development area, which will need to be checked for nesting birds prior to tree felling. There were observations of changeable hawk eagles in the site. As these species tend to reuse the site, they will be particularly vulnerable if they are nesting and will be impacted if schedules of vegetation clearance do not consider the possibility of nesting birds.

During the construction phase, there may be fauna injury and mortality due to accidentall collision with construction vehicles or machinery, injury during tree-felling, or kills by construction personnel. Additionally, fauna species, particularly reptiles and amphibians, may become entrapped when navigating through the worksite, especially by getting stuck in ECM blankets or falling into pits.

The impact of species mortality will be direct, and most prominent within the project

footprint, where the vegetated area will be cleared for the earthworks. At least 30 flora species of conservation value found within the development area (Table 4-4), and will be affected from the development. More trees are expected to be affected as many trees fall outside the Modified Gentry Plots boundary and ad-hoc site clearance to accommodate various construction needs including but not limited to construction footprints, equipment storage, staging grounds, soil-levelling works, other ad-hoc site issues, etc. Should hoarding be improperly erected, more trees and vegetation may be affected outside the working area. The list of threatened flora species can be found in Table 4-4.

Despite the project footprint occurring largely within exotic-dominated secondary forest and scrubland, mortality of plants of conservation value is still of concern. While not considered Critically Endangered, *Ficus caulocarpa* is mainly found in the eastern part of Singapore, with no published localities in northern Singapore, and *Angiopteris evecta* and *Tinospora macrocarpa* are mainly found near central Singapore (Bukit Timah, MacRitchie), and Miltonia forest might be the few localities where the species were recorded outside nature reserves. (Source: BRAHMS: Singapore Herbarium (ox.ac.uk))

The project site contains several fauna species of conservation value (see Table 4-15). Significance should be placed on non-volant animals of conservation value, given that they are unable to move to nearby forested areas on their own.

Table 4-15 List of threatened fauna species in the project area

No.	Species name	Common Name	Local Status	Global Status
2	*Nisaetus cirrhatus*	Changeable Hawk-eagle	VU	LC
3	*Acridotheres javanicus*	Javan Myna	-	VU
4	*Psittacula longicauda*	Long-tailed Parakeet	-	VU
5	*Pycnonotus zeylanicus*	Straw-headed Bulbul	EN	CR
6	*Ketupa ketupu*	Buffy Fish Owl	VU	LC
7	*Ardea purpurea*	Purple Heron	EN	LC
8	*Copsychus saularis*	Oriental Magpie-Robin	VU	LC
9	Zosterops simplex	Swinhoe's White-eye	VU	LC
10	*Ixobrychus sinensis*	Yellow Bittern	VU	LC
11	*Lanius cristatus*	Brown Shrike	VU	LC
12	*Lutrogale perspicillata*	Smooth-coated Otter	EN	VU
13	*Tylonycteris sp.*	Bamboo Bat	VU	LC
14	*Cylindrophis ruffus*	Red-tailed Pipe Snake	VU	LC
15	*Pelodiscus sinensis*	Chinese Softshell Turtle	-	VU
16	*Astictopterus jama jama*	Forest Hopper	Moderately Rare	-
17	*Amathusia phidippus phidippus*	Palm King	Moderately Rare	-
18	*Melanitis leda leda*	Common Evening Brown	Moderately Rare	-
19	*Cyprinus carpio*	Common Carp	-	VU
20	*Pila scutata*	Apple Snail	Rare	-

Most species of conservation value found on the project site are volant (able to fly). These include several bird species such as the endangered straw-headed bulbul and changeable hawk eagle, and the forest hopper butterfly. Given these species capability to fly, they are likely able to use other similar habitats in the area, including the proposed nature park area, and other green spaces along the Khatib Nature Corridor. However, with rapid developments in Singapore in recent years, suitable habitats for remaining species have been declining, and insufficient research has been conducted to determine carrying capacities of remaining patches of habitat for fauna species. Additionally, some of these bird species are particularly vulnerable while they are nesting and will be impacted if schedules of vegetation clearance do not consider the possibility of nesting birds. Among the volant species on the site, bamboo bats have also been recorded using one of the clusters of bamboos. As bamboo bats are inactive and take refuge in bamboos during the day, land clearance activities may cause injury or mortality to bats sleeping in bamboo clusters undergoing land clearance.

Several non-volant species of conservation value were also found on the site, including the red-tailed pipe snake and the rare apple snail. These species were recorded within the stream habitat, which will be retained as part of a future park. The retention of this stream, together with surrounding park area, will minimize any direct impacts to the population of apple snails and other aquatic species found in the stream.

Should there be nightworks within the area during the construction phase, this may create species disturbance from light. Alteration of natural cycles of light and dark by artificial light sources can negatively impact the ecosystem if not managed properly. As some of fauna species, particularly nocturnal species which rely on their hearing for movement, communication, and foraging, are vulnerable to increased night-time noise levels.

Degradation/loss of Habitats and Connectivity between Habitats

Vegetation clearance leads to the loss of habitats for fauna species and reduction of foraging habitat, food sources, roosting, breeding, and nesting sites, and other resources needed for the continued survival of a species. The project area mostly consists of abandoned kampong and scrubland habitat types with limited native flora diversity in understory regeneration. Such habitats are not considered rare, as they are found in many other forested patches in Singapore. However, this area also contains many species of conservation significance, which currently rely on the site, and as such, it is important to consider these species before proceeding with vegetation clearance. In particular, the lack of records of the rare *Pila scutata* apple snail in other parts of Singapore is also of concern, as the potential degradation of this habitat may prevent the further propagation of this species. For most fauna species, it is expected that they will be able to disperse to the proposed nature park area, which is not affected by the works.

Impacts to the stream and swamp habitat within the proposed nature park area may be observed should uncontrolled runoff of chemicals and sediment generated from the construction activities is allowed to either directly flow into the stream or enter the drainage network that flows into the stream, thus compromising the water quality and

physical characteristics of the stream habitat.

This project site lacks direct terrestrial connectivity between this with other forested sites around Singapore. However, the project site has been identified as a stepping stone habitat in the Khatib Nature Corridor through the Ecological Profiling Exercise conducted by NParks. In general, loss of connectivity between forested areas in Singapore may lead to reduced movement between populations. Such fragmentation of populations can in turn lead to reduced gene flow and local extinctions of species. However, given that there are plans to keep the proposed nature park area on this site intact, impacts due to loss of connectivity are likely to be limited.

Edge Effects

Vegetation clearance may also have indirect impacts to ecology, including the creation of edge effects in the surrounding habitats, where forest edges are exposed to abiotic and biotic changes due to vegetation clearance. These changes include increased light intensity and temperature, increased soil nutrient content, and changes in air and soil moisture levels. The edge effect may lead to changes in microclimates, forest structure, and ecological interactions. Gradual deterioration of habitats and changes in flora and fauna communities in the areas adjacent to the proposed development due to edge effects may also occur.

For this project site, while the central area will be retained, the boundaries of the retained core will be exposed to the external environment. Edge effects due to the vegetation clearance will therefore have an impact on the proposed nature park area.

Changes in Soil and Topography

Vegetation plays an important role in soil stability. Where vegetation clearance has taken place, soil will be left vulnerable to erosion, particularly during rainy periods. Erosion may lead to siltation of waterbodies, and also the runoff of nutrients in topsoil, leading to lowered nutrient levels of the remaining soil on the site. Erosion or siltation, if uncontrolled, may also indirectly impact areas beyond the project footprint.

Where there are planned earthworks within the project footprint, impacts to habitats, including streams and other localized habitats, and species are likely to be felt. Impacts on the biodiversity may go beyond the actual footprint of working boundaries due to indirect impacts caused by associated works such as backfilling, compaction, and soil excavation.

Soil compaction from construction activities may result in reduced soil health, such as reduced nutrient availability, porosity and hydraulic conductivity, which may result in negative impacts to plant growth and mortality in these areas.

Concretization and sealing of surfaces could increase surface runoff which may result in increased soil erosion while facilitating the transport of any chemicals and nutrients from the concretized surface to the surrounding soil. The surface runoff may also contribute to increased nutrient, chemical levels or change in pH levels in the surrounding soils due to other substances on the concrete the surface runoff may collect. Additionally, sealing of surfaces could reduce groundwater recharge, thus affecting

stream flow in adjacent streams.

Invasive Species

Invasive species have many impacts on biodiversity, including the displacement of native species (Peh, 2010), hybridization of distinct populations (Peh, 2010; Vuillaume, et al., 2015), and degradation of ecosystem services (Çinar, 2014).

In the case of construction activities, invasive plants are sometimes introduced through seeds embedded in construction equipment and the boots of construction personnel. While the project site already has a large population of non-native and/or invasive species more will be introduced if species with the ability to propagate locally without human assistance are planted in the future, such as rain trees (*Samanea saman*), trumpet tree (*Tabebuia rosea*), common lantana (*Lantana camara*), etc.

There are several non-native species currently found on project site, including the Javan myna (*Acridotheres javanicus*), Mukhlesur's narrow-mouthed frog (*Microhyla mukhlesuri*) and Gunther's frog (*Sylvirana guentheri*). The clearance of forest may allow such generalist non-native species to proliferate in the newly cleared environment.

Human–Wildlife Conflict

There is a presence of snakes, feral dogs, and sightings of smooth-coated otters within the project site, all of which may result in human-wildlife conflict during the construction phase. If measures are not taken to ensure that fauna species are not able to enter the working area, and that construction personnel are trained on actions to take when occurring wildlife, injury to construction personnel or these fauna species is possible during the construction phase.

Potential Roadkill

The project site is adjacent to a major road, Yishun Avenue 1. The southern part of the project site is adjacent to a smaller road, Miltonia Close. During the construction phase, traffic volume is also likely to increase from construction vehicles accessing the site. If mitigation measures are not taken, animals are likely to run out of the forest, particularly during periods of high disturbance such as tree-felling. This may lead to an increased incidence of roadkill, which poses negative impacts on both the wildlife present on the site as well as drivers along the road.

Post-construction Phase

The main impacts from this project are likely to be felt during the construction phase. However, during the operational phase of the project, the area surrounding the proposed nature park area will consist of residential buildings. This will lead to an increase in human presence and human activities in general, leading to changes to microclimate of the forest due to increased levels of noise and light into the proposed nature park, encroachment into forested areas, and potential human-wildlife conflict.

Degradation of Habitats

As discussed in the previous section, clearance of forest surrounding the proposed nature park area will lead to edge effects. The increase in noise and light levels from the

nearby residential buildings into the remaining forested area may adversely impact the biodiversity within the area.

Species Disturbance and Mortality
During the operational stage of the project, the increase in human activities may pose a danger to the flora and fauna within and around the proposed nature park area. This can be in the form of unpermitted entrance into the forest off the designated trails, which may cause accidental injury or death of animals. With the increased accessibility of the forest, poaching of wildlife may also occur. Increase in vehicular traffic within the site might also pose a danger, particularly to terrestrial animals on the site such as snake, monitor lizards, and smooth-coated otters.

Invasive species
With increased accessibility residents or public may introduce exotic and invasive fauna species through pet abandonment and introduce non-native plants through landscaping in remaining forested areas within the proposed nature park area.

Human-wildlife Conflict
The presence of a forested area directly adjacent to residential buildings will result in wildlife being in closer proximity to the residents. If measures are not taken to exclude animals from residential buildings, and to raise the awareness of residents on the biodiversity of the site, human-wildlife conflict might occur.

Overall Impact

Based on the assessment above, some of the potential impacts on site's biodiversity are deemed to be permanent in nature while the others are short-term and reversible. Appropriate measures are to be proposed to mitigate these impacts to acceptable level.

Additionally, critical impacts of other physical parameters are discussed in the relevant chapters. Impacts of hydrology and surface water quality and hydrology on biodiversity are addressed in Chapter 5, impacts of noise are discussed in Chapter 6, impacts of air quality on biodiversity are discussed in Chapter 7, impacts of light on biodiversity are discussed in Chapter 9, and impacts of waste management are discussed in Chapter 10.

4.6.3. Evaluation of Potential Impacts

Table 4-16 and Table 4-17 summarises the impacts to biodiversity with their corresponding impact significance before and after the implementation of mitigation measures which are elaborated in the following section.

4.7. Mitigation Measures

Mitigation measures are to be implemented wherever significant negative impacts are predicted, in order to reduce the impacts of the works on the environment. Most of biodiversity mitigation measures are covered in this chapter. Additionally, mitigation measures related to other environmental aspects are covered in relevant chapters as

well.

4.7.1. Pre-construction / Construction Phase

The project area consists of several flora species of conservation significance. Given the nature of the project, the clearance of threatened plant species within the area is unavoidable, and several Conservation Significant flora species will be affected. Most of the EMMP study area will be cleared, including some patches of relatively well developed Abandoned Kampung. The proposed nature park area is retained.

With the layout of the proposed development area, several plants of conservation significance with be cleared, including the critically endangered *Melicope lunu-ankenda,* vulnerable species such as Elephant fern (*Angiopteris evecta*)*,* Long leaved beautyberry (*Callicarpa longifolia*), Kerenang (*Symplocos fasciculata*), Shiny Leafed Lindera (*Lindera lucida*) and *Tinospora macrocarpa*. Among the list of threatened species, these are the ones that did not have history of past cultivation and most likely originated from natural regeneration.

Site Hoarding

In order to limit impacts outside the project area, the boundaries of the project area, including all working space required, should be surrounded by permanent hoarding. All equipment and construction material required should be stored within hoarded areas. There should be no storage of equipment in vegetated areas. For the work boundary along the proposed nature park area excluding the section along Yishun Avenue 1, it is recommended that hoarding of at least 4m height be installed during the earthworks phase, and 6m during all other construction phases.

Besides limiting vegetation clearance, permanent site hoarding will also mitigate the possibility of roadkill from highly motile fauna species, including common palm civets and monitor lizards. Boundary hoarding, as well as phased clearance of trees in the direction towards the proposed nature park area, could help to prevent animals from running onto the road.

The full clearance area should be hoarded, with hoardings installed at a depth of 300 mm to prevent animals from digging under the hoarding. The hoarding line should be located a distance away from the forest edge to prevent the inadvertent damage of major roots of trees during installation, which may lead to the trees falling onto the site. Hoarding should be monitored regularly to ensure that no animals are entering the site either through gaps or by digging under the hoarding. Protocol in the case of animal encounter is elaborated in Section 12.3.6.

Avoiding Impacts on Sensitive Habitats

Direct impacts on important habitats should be avoided where possible. Placement of working shafts, trenchwork, and all other working spaces should avoid the proposed nature park area. Should any threatened native, mature tree species to be retained be affected in close proximity to the working area, a slight shift of placement could help to prevent impacts on these species. As discussed in the previous paragraph, the erection of hoarding will also help mitigate any inadvertent clearance of sensitive areas. In the

case of this project site, the hoarding line should be located a distance away from the proposed nature park area to prevent the inadvertent damage of major roots of trees during installation, which may lead to the trees falling onto the site.

Species may also be affected by increased noise, light, and vibration disturbance. Noise barriers / sound proofing should surround all working areas to decrease the impact of noise to the surrounding fauna. Nightworks should be avoided. To reduce vibration impacts to fauna located in proximity to construction areas, machineries causing vibration may be placed on isolators. The details of these impacts are further elaborated upon in their respective chapters.

Indirect impacts to the important habitats should be avoided. This includes particularly the freshwater stream and swamp habitat within the proposed nature park area. Care must be taken to prevent soil erosion or sediment run-off into adjacent habitats, particularly waterbodies. As such, proper Earth Control Measures (ECM) Plan approved by PUB should be in place prior to start of (pre-)construction activities and effectively implemented throughout the duration of activities. The ECM tanks utilised for the project must have surplus capacities to avoid overflow and silty discharge. As far as possible, all hazardous / flammable chemicals to be used during construction shall be properly labelled, stored within bund containment, and under shelter.
The stream within the proposed nature park area should be regularly monitored during the construction phase, and for three months after the construction phase, to ascertain that the stream is not adversely impacted by the works. Details of regular monitoring recommendation can be found in Section 12.

Plant Salvaging and Planting of Native Species
To remedy the adverse impact to biodiversity, it is recommended salvaging saplings and small individuals of plants of conservation value. We recommend the transplanting of 12 Conservation Significant species found within the project area: *Angiopteris evecta* (fern), *Archidendron jiringa* (tree sapling), *Ardisia elliptica* (small tree), *Callicarpa longifolia* (shrub), *Causonis trifolia* (climber), *Horsfieldia sp.* (tree seedling), *Hoya diversifolia* (climber), *Limacia scandens* (climber), *Lindera lucida* (tree), *Melicope lunu-ankenda* (tree), *Symplocos fasciculata* (tree) and *Tinospora macrocarpa* (climber). Out of the threatened flora species list, the aforementioned species are unlikely from cultivated origin and thus are recommended for transplanting. As the mature *Ficus caulocarpa* is too large to be transplanted, it would be best if this individual can be conserved on site. If preserving the mature individual is not possible, attempts should be made to collect fruits for future cultivation.

Additionally, some more common native plants may also be targeted for translocation, including *Alsophila latebrosa* (fern), *Gironniera nervosa* (tree), *Syzygium polyanthum* (tree), *Terminalia catappa* (tree), *Litsea elliptica* (tree) and *Macaranga conifera* (tree).

Salvaged native species can be incorporated as far as reasonably practical as a nature-based component for replanting requirements such as for reinstatement, slope stabilizing, or fauna connectivity purposes. Compared to conventional method of planting solely ornamental trees in residential estate with planting stocks ordered from local or overseas nurseries, using native plants salvaged in-situ at least partially for

reinstatement works brings ecological and biodiversity benefits, as this demonstrates an effort to preserve and disperse native flora germplasm rather than introducing foreign species which might deter conservation of native flora germplasm. This will help to mitigate biodiversity loss and conserve a certain degree of biodiversity. Where salvaged plants are transplanted into the proposed nature park, it is important to ensure that species are planted in suitable habitat. For example, most terrestrial species identified for salvaging may not survive in swampy habitat and should be planted in drier areas, such as the Abandoned Kampung / Plantation forest in the southwest corner of the proposed nature park.

Flora Management Plan

The detailed plant salvaging and tree protection guidelines are provided in Section 12.4 as part of overall EMMP framework, including the requirements of personnel qualification, specifications of nursery, transplanting, tree assessment, tree felling and so on. A summary of flora management plan is provided below.

Prior to any site clearance and plant salvaging processes, the Contractor is to liaise with NParks on plants they plan to salvage.

A tree assessment report recording tree information such as site and tree photos, species, height, girth, crown spread, tree health, form, structure, site observations and assessment for the trees affected by proposed development footprint is to be prepared and it should also include mitigation measures to reduce construction impact on trees. This tree assessment report will then serve as record of pre-development tree condition, and to be utilised when performing monthly monitoring for trees.

Any slope levelling work that may be required should also take into account any flora immediately upslope of the planned work area, especially trees, as their root zones would likely be affected by any excavation works that are carried out. Any waste material should also be disposed of properly, as the leaching of contaminants into the soil or wastewater could result in negative impacts south of the pipeline, which is downslope and has a higher biodiversity compared to the area north of the road.

Trees identified for retention at the boundaries of the construction footprint of the working area should be demarcated by Tree Protection Zones (TPZs) determined by a certified Arborist (see Figure 12.12). TPZ should be installed prior to construction zone, and monthly monitoring should be conducted by the Arborist to maintain records of tree health and TPZ integrity. If the tree needs to be pruned due to machinery access, the pruning will need to be carried out by landscape contractors with relevant qualifications under supervision of the Arborist.

Restricted Work Timings

Due to the sensitive nature of forest animals, particularly nocturnal animals, heavy construction works (including tree clearance, piling, and pipejacking) are to be limited to daylight hours (8 am – 6 pm). Should there be a need for construction activities to continue at night due to work exigencies, authorities' approval should be obtained. For such works, a detailed LMP shall be developed as part of the Construction EMMP. This is further elaborated in Section 9.3.1 of the chapter on light impacts.

Pre-felling Fauna Inspections

Mortality of fauna species of conservation value should be avoided. In general, most of the fauna of conservation value recorded include birds that are highly motile, hence the works should not greatly affect their survivability. However, several measures can be put in place to further decrease species mortality. Prior to any tree felling, the project site should be inspected for active bird nests or holes, and chicks should be allowed to fledge prior to tree felling. Slits within bamboo stems should also be inspected for bamboo bats. Where possible, tree hollows should also be inspected for mammal and bird species, and such species should be translocated prior to tree felling.

Directional Clearance and Wildlife Translocation

Trees should be felled in stages, towards the proposed nature park area. Such directional clearance will give time for less motile fauna to move into other forested areas. Where necessary, certain fauna species may also need to be actively translocated. The details of the proposed directional tree felling plan are further elaborated on in Section 12.3.

Tree felling works are also to avoid the peak nesting period of many birds (between the months of February and July).

Management of Human–Wildlife Encounters

Mortality from roadkill of highly motile fauna species such as common palm civets and monitor lizards should be avoided. Hoarding along the road adjacent to the works should be erected to prevent animals from running onto the road.

To prevent other wild animals from scavenging on construction site, areas for food consumption, storage, and waste disposal should be demarcated and managed. The presence of snakes, feral dogs, and monkeys may pose a threat the health and safety to both humans and animals.

The personnel should also be briefed on what to do should they encounter specific wild animals. There should also be no eating of food and drink within forested areas. Should wildlife be encountered, the Wildlife Response and Rescue Protocol, which is elaborated upon in Section 12.3.6, should be followed.

Minimising Fauna Entrapment

To prevent fauna mortality due to entrapment within the worksite, such as in ECM blankets or pits, daily site checks should be conducted to identify and rescue entrapped fauna. Moreover, only non-plastic, biodegradable ECM mats are to be installed throughout the site. These mats should minimize entrapment of wild animals like snakes and lizards.

In summary, the mitigation measures that should be implemented to mitigate the impacts on sensitive biodiversity receptors for the project site are as follows:

- Hoard up entire work site. Permanent hoarding is to be embedded along the perimeter of the working boundaries.
- Avoid heavy construction activities at night (i.e., limit heavy work activities to 8 am – 6 pm)

- Ensure project layout avoids targeted sensitive receptors and habitats, including the proposed nature park area
- Identify plants of high conservation significance to be transplanted
- Establish Tree Protection Zones (TPZ) for trees to be retained
- As far as practicable, avoid commencement of tree felling during the peak bird nesting period (February to July)
- Visually inspect trees and holes for nesting birds and species of conservation value prior to felling
- Replant new planting verges with native plant species
- Conduct phased /directional clearance of vegetation in the direction towards the proposed nature park area
- Conduct daily checks of ECM blankets and pits to rescue any entrapped fauna
- Implement proper ECMs to prevent impact to adjacent habitats
- Utilise inert construction material
- Ensure equipment, vehicles, and footwear are clean prior to commencing works
- Establish designated areas for food and waste disposal
- During the construction phase, conduct information sessions for workers on what to do upon encountering wildlife
- Conduct regular monitoring of trees and vegetation health during construction phase within project site
- Conduct regular water quality monitoring of stream habitat during construction phase

4.7.2. Post-construction Phase

The impacts from the operational phase of the project are related mostly to an increase in human presence in the area, leading to increased levels of noise and light into the forest, disturbance to flora and fauna species due to encroachment into the forest, and potential human wildlife conflict. The following general mitigation measures are proposed to mitigate some of these impacts. Mitigation measures for the impact of noise and light during the operation phase are further addressed in their respective chapters.

Implementation of wildlife-safe designs

With residential areas being in close proximity to the proposed nature park area, certain mitigation measures could improve the safety of fauna species in the area, while lowering potential human-wildlife conflict encounters.

For bird strikes, bird-safe windows should be incorporated into building design so as to reduce the incidences of bird strikes. Relevant measures for this development include:

- Reducing the amount of glass surfaces, particularly on high levels.
- Increase the visibility of glass through the addition of structural components such as columns or sunshades.
- Use non-mirrored glass or treat glass to increase visibility.
- Include decals or stickers to increase the visibility of glass.

Details of such guidelines are further elaborated upon on NParks' website (https://www.nparks.gov.sg/biodiversity/urban-biodiversity/bird-safe-building-guidelines).

The installation of designated eating areas in common spaces and monkey-proof bins could ensure that monkeys do not become habituated to human food. Additionally, any water features with ornamental fish should be designed to prevent access to smooth-coated otters.

Enhance Planted Areas around the proposed nature park area
In order to reduce the impacts of edge effects on the proposed nature park area, its edges should be planted with hedge plants and other forested plants. This can be done utilizing salvaged plants from the land clearance stage. The planting palette for the edge should include native species of various plant forms (eg., tree, shrub, herbaceous plants) to mimic the structure of a healthy forested area.

Develop Biodiversity Awareness among Residents and Visitors
Programmes to familiarize residents should be developed to cultivate an awareness of wildlife in the area and what to do should wildlife be encountered. This could take the form of signages around the proposed nature park area, guided walks within the existing park or citizen science activities which could be open to the residents. By developing an understanding of the natural world among people, this could help to reduce negative wildlife encounters.

4.8. Residual Impacts

The residual impacts were evaluated using the same method as in the previous study (AECOM, 2022) (Table 4-16 and Table 4-17) with due consideration that the recommended mitigation measures are implemented by Contractor. TAC incorporated the relevant mitigation measures developed by AECOM (2022). Where TAC proposes additional mitigation measures, these are indicated in the column on mitigation measures.

The project involves the permanent clear-felling of most of the area, with the exception of the proposed nature park area comprising of a stream and some vegetation. With the implementation of mitigation measures, the residual impacts are likely to be negligible to major, especially during the construction period.

Table 4-16 Impact assessment on site's biodiversity with corresponding mitigation measures for project area construction activities

General description (AECOM Table 7-4 p95)	Specific descriptions (AECOM page 101- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p101-105)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p126-128)
Receptor: Habitats								
<u>Loss of vegetation</u> Direct removal of vegetation (with extensive underground root systems that protect against soil erosion) to create space for construction activities	<u>Priority 1 and 2 habitats:</u> Stream, abandoned-land forest, and young secondary forest – 68.3% of original habitats in abandoned-land forest will be lost, including one *Falcataria falcata*[2] tree with a raptor nest. 84.9% of young secondary forest will be lost, including a bamboo cluster which hosts bamboo bats. 31.7% of the stream to be cleared, including the tributary. Intensity **High**	Certain X High	**Major**	**Major**	Existing (AECOM) • Ensure that the working space needed for the construction of the proposed road does not affect the stream; reduce the working space in the localised area near the stream • Ensure silt fences and other silt control measures along the worksite hoarding are installed and maintained properly • Practise due diligence in proper storage and handling of machinery to prevent leeching of oil or harmful materials such as bentonite slurry; store and handle harmful materials well away from waterbodies; • Engage a Qualified Erosion Control Professional (QECP) to formulate and implement an Earth Control Measures (ECM) plan in accordance with PUB requirements; • Implement dust control measures such as dust screens and water suppression systems; • Conduct regular monitoring to identify any impacts to the forested areas adjacent to the worksite; • Conduct regular inspections to ensure contractor compliance to the EMMP • Retain ground cover for as long as possible before removal. When ground cover is removed, ECM is to be in place.	Certain X Medium	**Major**	**Major**
	<u>Priority 1 habitat:</u> Swampy scrubland and herbaceous vegetation – 15.0% of original habitats in swampy scrubland and herbaceous vegetation will be lost. Intensity **Medium**	Certain X Medium	**Major**	**Major**		Certain X Low	**Moderate**	**Major**
	<u>Priority 3 habitats:</u> Waste woodland and managed vegetation will be completely removed.	Certain X High	**Moderate**	**Moderate**		Certain X Medium	**Minor**	-
<u>Habitat degradation</u> Improper disposal of construction waste,	Stream, abandoned-land forest, and young secondary forest and waste woodland.	Possible X High	**Moderate**	**Minor**		Less Likely X Medium	**Minor**	-
	Swampy and non-swampy scrubland and herbaceous	Possible	**Minor**	**Negligible**		Less Likely	**Minor**	-

[2] Amended *Falcataria moluccana* to *Falcataria falcata* based on latest Flora of Singapore checklist (Lindsay, et al., 2022)

General description (AECOM Table 7-4 p95)	Specific descriptions (AECOM page 101- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p101-105)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p126-128)
accidental release of hazardous materials (such as construction slurry, paint, and/ or solvents), increase in dust, noise, and light levels, changes in forest hydrology	vegetation, and managed vegetation as the habitats are already degraded and exotic-dombiodinated.	X Low			Additional (TAC) • Ensure there are no works and disturbances to areas outside of work site, especially into the conserved proposed nature park area • Ensure any associated slope stabilisation and grading works will not impact topography of areas outside work site and, water quality and hydrology of the waterbodies within the Project Site. Care should be taken to prevent siltation into the conserved area. Works should not encroach on these areas, not should there be clearance, trampling or vegetation damage to these areas. Overall, these areas should have no or minimal impacts. • Erect permanent hoarding to limit vegetation clearance • Install hoarding of at least 4m in height installed around work boundary of proposed park area (excluding the section along Yishun Avenue 1) during earthworks phase, and 6m during all other construction phases. • Reinstate habitats with native flora species where possible upon completion of works • Avoid felling trees during the peak bird nesting period (February to July) • Establish Tree Protection Zones (TPZ) for trees to be retained • Visually inspect trees and bamboo clusters for nesting birds and animals prior to felling	X Low		

General description (AECOM Table 7-4 p95)	Specific descriptions (AECOM page 101- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p101-105)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p126-128)
<u>Change in species composition</u> Formation of forest edge habitats that favour the growth of certain exotic plants and fauna, and accidental introduction of exotic species from construction materials (such as soil with seeds or bio-degradable erosion blankets with insect eggs)	10.2% of abandoned-land forest is within 30m of worksite. Likelihood **Possible**	Likely X Medium	**Moderate**	**Moderate**	TAC • Ensure equipment, vehicles, and footwear used are clean prior to commencing works • Use native plants for replanting of roadside verges • Periodic checks within hoarding boundary to ensure that no introduced plant species have spontaneously established	Possible X Low	**Minor**	-
	8.2% of young secondary forest and 3.9% of waste woodland are within 30 m of worksite.	Likely X Low	**Minor**	**Minor**		Possible X Low	**Minor**	-
	Existing exotic-dominated habitats (stream, swampy and non-swampy scrubland, and herbaceous vegetation, managed vegetation)	Likely X Negligible	**Minor** (Changes to stream and swampy species may affect its suitability as a swampy habitat)	**Negligible**		Possible X Negligible	**Minor**	**-**
Receptor:	**Flora Species**							
<u>Mortality</u> Direct removal of vegetation to create space for construction activities	Complete extirpation of 10 species (including *Bambusa vulgaris*, *Ardisia elliptica*, *Premna serratifolia*) from site after vegetation clearance. Intensity **High** **Li**kelihood **Certain**	Certain X High	**Major**	**Major**	TAC • Erect permanent hoarding • Identify plants to be transplanted • Avoid tree roots • Reinstate working areas with selected native species • Avoid felling trees during the peak bird nesting period (February to July) • Visually inspect trees for nesting birds and animals prior to felling AECOM	Certain X Medium	**Major**	**Major to major** *(A. Angustiloba, B. heterostachya, B. vulgaris, F. benjamina, F. caulocarpa and F. variegata)*
	>50% extirpation of 3 species (*Agelaea macrophylla*, *B. heterostachya* and *Calophyllum inophyllum*) from site after vegetation clearance. Intensity **Medium** **L**ikelihood **Certain**	Certain X Medium	**Major**	**Major**		Certain X Low	**Moderate**	

General description (AECOM Table 7-4 p95)	Specific descriptions (AECOM page 101- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p101-105)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p126-128)
	8/19 specimens of the Priority 1 species *Ficus microcarpa* will be removed Intensity **Low** Likelihood **Certain**	Certain X Medium	**Major** (Higher intensity as impact is permanent)	**Moderate**	• Transplant or harvest and propagate trees/saplings of conservation significance if they are to be cleared • Erect Tree Protection Zones (TPZs) to prevent encroachment of construction activities and excessive vegetation clearance around retained trees or areas; and • Conduct regular inspections to ensure contractor compliance to the EMMP.	Certain X Low	**Moderate**	**Major to moderate** (*Agelaea macrophylla, A. elliptica, Calophyllum inophyllum, C. villosum, H. diversifolia, L. cf. Circinnatum, P. obovata, P. serratifolia, Oxyceros longiflorus*) **Moderate to moderate** (*F. microcarpa*) **Major to minor** (*Amphineuron opulentum*) **Moderate to minor**
<u>Impediment to seedling recruitment</u> Pollution of habitats from improper disposal of construction waste and accidental release of hazardous materials (such as construction slurry, paint, and/ or solvents)	3/11 of the Priority 1 species *Alsophila latebrosa* are in the abandoned-land forest and will be subjected to forest edge effects from clearance	Possible X Medium	**Moderate**	**Moderate**	TAC • Ensure equipment, vehicles, and footwear used are clean prior to commencing works • Use native trees for replanting of roadside verges • Avoid placement of shafts near native, mature trees, where possible	Less Likely X Low	**Minor**	
	Priority 1 species *Cayratia trifolia, Connarus semidecandrus* and *Litsea firma* grow in soil, and clearing of vegetation outside the conservation area can impede seedling recruitment Likelihood **Possible**	Possible X Medium	**Moderate** (Higher intensity as this may lead to cumulative impacts)	**Minor**		Less Likely X Low	**Minor**	
<u>Competition from exotic plant species</u> Formation of forest edge habitats that favour the growth of certain exotic plants and accidental introduction of	3/11 of the Priority 1 species *Alsophila latebrosa* are in the abandoned-land forest and will be subjected to forest edge effects from clearance	Possible X High	**Moderate**	**Moderate**	TAC • Ensure equipment, vehicles, and footwear used are clean prior to commencing works • Use native plants for replanting of roadside verges • Periodic checks within hoarding boundary to ensure that no introduced plant species have spontaneously established	Possible X Medium	**Moderate**	

General description (AECOM Table 7-4 p95)	Specific descriptions (AECOM page 101- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p101-105)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p126-128)
exotic species from construction materials (such as soil with seeds)								(*Alsophila latebrosa)* **Minor to minor** (*Cayratia trifolia, Connarus semidecandrus, Litsea firma*)
<u>Decline in plant health and survival</u> Changes in microclimatic conditions (i.e., dust, noise, and light, temperature, and humidity) and hydrology	3/11 of the Priority 1 species *Alsophila latebrosa* are in the abandoned-land forest and will be subjected to forest edge effects from clearance	Possible X Medium	**Moderate**	**Moderate**	TAC • Avoid tree roots • Establish Tree Protection Zones (TPZ) for trees to be retained • Reinstate working areas with selected native species • Avoid night works (i.e., limit construction activities to 8 am – 6 pm), except in the case of work exigencies and planned nightwork, with the implementation of the LMP approved by NParks • Construction lights (if any) should face inwards and away from the forest	Possible X Low	**Minor**	
Receptor:	**Fauna Species**							
<u>Loss of/reduction in habitats and food sources</u> Direct removal of vegetation, nests, and roosts to create space for construction activities	Clearance of >40% of original habitats, nests, and/or roosts Intensity **High** Likelihood **Certain**	Certain X High	**Major**	**Major**	TAC • Erect temporary hoarding to limit vegetation clearance • Reinstate habitats where possible upon completion of works • Conduct phased, directional vegetation clearance along with wildlife shepherding • Conduct daily checks of ECM blankets and pits to rescue any entrapped fauna • Utilise only non-plastic, biodegradable ECM mats throughout the site. • Avoid felling trees during the peak bird nesting period (February to July) • Visually inspect trees for nesting birds and animals prior to felling	Certain X Medium	**Major**	**Major**

General description (AECOM Table 7-4 p95)	Specific descriptions (AECOM page 101- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p101-105)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p126-128)
<u>Accidental injury or mortality</u> Collisions with vehicles, machineries, entrapments in construction materials (such as non-biodegradable erosion control blankets) and structures (such as exposed pits or drains), and accidental kills by construction personnel	<u>Butterflies</u> (13 species) can quickly escape from danger Intensity **Low** Likelihood **Unlikely**	Unlikely X Negligible	**Negligible**	**Negligible**	TAC • Erect physical barriers to prevent fauna from crossing the road • Erect speed bumps or signages to alert drivers about potential animal crossings • Enforce speed limit on the roads • Visually inspect trees for nesting birds and animals prior to felling • Conduct daily checks of ECM blankets and pits to rescue any entrapped fauna • Utilise only non-plastic, biodegradable ECM mats throughout the site. • Erect temporary hoarding to limit vegetation clearance • Visually inspect trees and holes for nesting birds, bats, and any other animals prior to felling • Conduct phased, directional vegetation clearance along with wildlife shepherding • Avoid felling trees during the peak bird nesting period (February to July) • Conduct daily checks of ECM blankets and pits to rescue any entrapped fauna • Utilise only non-plastic, biodegradable ECM mats throughout the site. • Reinstate habitats where possible upon completion of works • Use native trees for replanting of roadside verges AECOM • Ensure that the stream remains connected to the Lower Seletar Reservoir throughout the construction phase	Unlikely X Negligible	**Negligible**	**-**
	<u>Reptiles:</u> 2 species (red-tailed pipe snake [*Cylindrophis ruffus*] and puff-faced water snake [*Homalopsis buccata]*) cannot quickly escape from danger. Intensity **High** Likelihood **Less Likely**	Possible X High	**Moderate** (Higher likelihood based on occurences at other sites)	**Minor**		Less Likely X Medium	**Minor**	**-**
	<u>Birds</u> (20 species) Highly volant birds can quickly escape from danger Intensity **Low** Likelihood **Less Likely** Less volant birds (red junglefowl [*Gallus gallus*], red-legged crake [*Rallina fasciata*], greater painted-snipe [*Rostratula benghalensis*]) and the potential inhabitants of the raptors' nests (crested goshawk [*Accipiter trivirgatus*], grey-headed fish eagle [*Haliaeetus ichthyaetus*], changeable hawk-eagle [*Nisaetus cirrhatus*], and crested serpent eagle [*Spilornis cheela*]) are more susceptible. Intensity **Medium** Likelihood **Less Likely** The risk of injury/ mortality to the inhabitants of the raptors'	Less Likely X Low	**Minor**	**Minor**		Unlikely X Low	**Negligible**	**-**

General description (AECOM Table 7-4 p95)	Specific descriptions (AECOM page 101- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p101-105)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p126-128)
	nests will be reduced by pre-felling fauna inspections.				• Ensure that the existing box culvert remains usable by terrestrial fauna throughout the construction phase; and • Install hoarding around the proposed nature park on the side adjacent to Yishun Avenue 1 to prevent displaced fauna from straying onto the road. • Install worksite hoardings prior to the start of site clearance; begin installation of hoarding along Yishun Avenue 1 to prevent displaced fauna from straying onto the road; • Conduct regular inspections to ensure contractor compliance to the EMMP; • Carry out directional site clearance from built-up areas towards the conserved area to avoid trapping ground- dwelling fauna within the worksite (Figure 7-9); keep an opening in the hoarding when site clearance works are ongoing to allow fauna to exit from the worksite to the proposed nature park on their own. This should be planned and overseen by an Ecologist.; • Conduct pre-felling fauna inspections before felling any trees or removing any vegetation; • Conduct detection, rescue, release, and/or translocation of bamboo bats (Tylonycteris spp.) prior to the felling of bamboo clusters. This should be planned and executed by an Ecologist; • Retain ground cover for as long as possible before removal. When ground cover is removed, earth control measures (ECM) are to be in place;			
	<u>Non-volant mammals:</u> Smooth-coated otter (*Lutrogale perspicillata*) is ground-dwelling and could get trapped within a worksite or collide with vehicles. Intensity **High** Likelihood **Possible**	Possible X High	**Moderate**	**Moderate**		Less Likely X Medium	**Minor**	**-**
	<u>Bats:</u> 2 species (lesser bamboo bat [*Tylonycteris fulvida*] and greater bamboo bat [*Tylonycteris malayana*]) tend to roost and hide in bamboo internodes and can be injured by falling or breaking stems when most of the bamboo clusters are removed. Intensity **High** Likelihood **Moderate**	Possible X High	**Moderate**	**Moderate**		Less Likely X Medium	**Minor**	**-**
<u>Human-wildlife conflict</u> Negative consequences of human-wildlife interactions, such as deliberate killing and depopulation of faunal species perceived as nuisances or threats by construction personnel	<u>Butterflies</u> (13 species) are not perceived as nuisances or threats by construction personnel. Intensity **Negligible** Likelihood **Unlikely**	Unlikely X Negligible	**Negligible**	**Negligible**		Unlikely X Negligible	**Negligible**	**-**
	<u>Reptiles</u> 2 species (red-tailed pipe snake [*Cylindrophis ruffus*] and puff-faced water snake [*Homalopsis buccata]*) can be perceived as threats to construction personnel, but they have low tolerance to human presence and environments. Intensity **Low**	Possible X Medium	**Moderate**	**Minor**		Less Likely X Low	**Minor**	**-**

General description (AECOM Table 7-4 p95)	Specific descriptions (AECOM page 101- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p101-105)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p126-128)
	Likelihood **Less Likely**				• Use only fully biodegradable erosion control blankets (ECB) to avoid trapping fossorial fauna such as snakes; • Adopt road calming measures such as speed bumps and speed limits to minimise roadkill accidents; • Train site personnel on biodiversity awareness and actions to take when encountering wildlife; • Formulate a fauna response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site; • Ensure good housekeeping controls such as provision of wildlife-proof bins and eating areas; • Conduct regular inspections to ensure contractor compliance to the EMMP and identify potential faunal entrapments; • Conduct regular monitoring of the aquatic faunal community in the retained stream; and • Implement enhancement planting in the proposed nature park area prior to site clearance so these areas can serve as refugia for wildlife.			
	Birds (20 species) are not perceived as nuisances or threats Intensity **Negligible** Likelihood **Unlikely**	Unlikely X Low	**Negligible**	**Negligible**		Unlikely X Negligible	**Negligible**	**-**
	Non-volant mammals: Smooth otter (*Lutrogale perspicillata*) is highly tolerant of human presence and environments and could stray into worksites and be perceived as a threat by construction personnel. Intensity **Medium** Likelihood **Possible**	Possible X Medium	**Moderate**	**Moderate**		Less Likely X Low	**Minor**	**-**
	Bats: 2 species (lesser bamboo bat [*Tylonycteris fulvida*] and greater bamboo bat [*Tylonycteris malayana*]) can possibly be perceived as threats to construction personnel, but they are not tolerant of human presence and environments. Intensity **Low** Likelihood **Unlikely**	Unlikely X Low	**Negligible**	**Negligible**		Unlikely X Negligible	**Negligible**	**-**
Loss/ reduction of ecological connectivity for faunal movement Habitat fragmentation from the removal of vegetation	Butterflies: Malayan Swift (*Caltoris malaya*) is dependent on connected forested habitats for dispersal as it is a forest understory specialist and not a strong flier. Intensity **Medium** Likelihood **Certain**	Certain X High	**Major**	**Major**		Certain X Medium	**Major**	**Major**
	Butterflies: 3 species (*Arhopala amphimuta*, the Ancyra blue [*Catopyrops ancyra]*, and the metallic	Certain X Low	**Moderate**	**Moderate**		Certain X Negligible	**Minor**	**-**

General description (AECOM Table 7-4 p95)	Specific descriptions (AECOM page 101- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p101-105)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p126-128)
	caerulean [*Jamides alecto ageladas]* prefer forested habitats but are adaptable to urban habitats Intensity **Low** Likelihood **Certain**							
	Butterflies: 9 remaining butterfly species are highly adaptable to urban environments Intensity: **Low** Likelihood **Certain**	Certain X Low	**Minor**	**Negligible**		Certain X Negligible	**Negligible**	**-**
	Reptiles: 2 species (red-tailed pipe snake [*Cylindrophis ruffus*] and puff-faced water snake [*Homalopsis buccata]*) make use of waterways to move between habitat patches, such as the existing stream outlet to Lower Seletar Reservoir which will be retained. Intensity **Medium** Likelihood **Less Likely**	Less Likely X High	**Minor**	**Minor**		Less Likely X Medium	**Minor**	**-**
	Birds: 11 bird species are highly dependent on connected forest habitats for dispersal (e.g., red-wattled lapwing (*Vanellus indicus*), straw-headed bulbul (*Pycnonotus zeylanicus*), red-legged crake (*Rallina fasciata*), and buffy fish owl (*Ketupa ketupu*). Intensity **Medium – High, L**ikelihood **Certain**	Certain X High	**Major**	**Major**		Certain X Medium	**Major**	**Major**
	Birds: 9 bird species are more adaptable to human	Certain	**Moderate**	**Moderate**		Certain	**Minor**	**-**

General description (AECOM Table 7-4 p95)	Specific descriptions (AECOM page 101- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p101-105)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p126-128)
	environments (e.g., changeable hawk-eagle [*Nisaetus cirrhatus]*, red junglefowl [*Gallus gallus]*, and blue-crowned hanging-parrot [*Loriculus galgulus]).* Intensity **Low** Likelihood **Certain**	X Low				X Negligible		
	<u>Non-volant mammals:</u> Smooth-coated otter (*Lutrogale perspicillata*) can traverse built-up areas Intensity **Negligible** Likelihood **Certain**	Certain X Low	**Minor** (Higher intensity than negligible)	**Negligible**		Certain X Negligible	**Negligible**	**-**
	<u>Bats:</u> 2 species (lesser bamboo bat [*Tylonycteris fulvida*] and greater bamboo bat [*Tylonycteris malayana*]) are highly dependent on connected forest habitats for dispersal. Intensity **High** Likelihood **Certain**	Certain X High	**Major**	**Major**		Certain X Medium	**Major**	**Major**
<u>Light disturbances</u> Increase in light levels from construction activities	No night works are expected	Unlikely X Medium	**Negligible**	**Negligible**	TAC • Avoid night works (i.e., limit construction activities to 8 am – 6 pm), except in the case of work exigencies and planned nightwork, with the implementation of the LMP approved by NParks • Construction lights (if any) should face inwards and away from the forest AECOM Avoid night-time works to prevent disturbances to nocturnal fauna; restrict working hours to 0700h–1800h	Unlikely X Low	**Negligible**	**-**

General description (AECOM Table 7-4 p95)	Specific descriptions (AECOM page 101- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p101-105)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p126-128)
Human disturbances Increase in human traffic flow, such as construction personnel	Butterflies (13 species) may move away from approaching humans but will not leave the habitat entirely Intensity **Low** Likelihood **Possible**	Possible X Low	**Minor**	**Negligible**	TAC • Erect physical barriers to prevent fauna from entering project site AECOM • Restrict entry of site personnel into the conserved area	Less Likely X Low	**Negligible**	**-**
	Reptiles: 2 species (red-tailed pipe snake [*Cylindrophis ruffus*] and puff-faced water snake [*Homalopsis buccata*]) will move away from approaching humans and may avoid areas with high human activity. Intensity **Medium** Likelihood **Possible**	Possible X Medium	**Moderate**	**Moderate**		Less Likely X Medium	**Minor**	**-**
	Birds (20 species) will move away from approaching humans or leave the site entirely (e.g., nesting raptors may abandon their nests). Intensity **Medium – High** **L**ikelihood **Possible**	Possible X High	**Moderate**	**Moderate**		Less Likely X Medium	**Minor**	**-**
	Non-volant mammals: Smooth-coated otter (*Lutrogale perspicillata*) is sensitive to human presence. Intensity **Medium** Likelihood **Possible**	Possible X Medium	**Moderate**	**Moderate**		Less Likely X Medium	**Minor**	-
	Bats: 2 species (lesser bamboo bat [*Tylonycteris fulvida*] and greater bamboo bat [*Tylonycteris malayana*]) are sensitive to human presence and may avoid roosting in bamboo clusters near areas of high human traffic.	Possible X High	**Moderate**	**Moderate**		Less Likely X Medium	**Minor**	-

General description (AECOM Table 7-4 p95)	Specific descriptions (AECOM page 101- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p101-105)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p126-128)
	Likelihood **Possible**							
Human health and safety	Priority 1 Attacks of construction personnel by animals including wild pigs, feral dogs, long-tailed macaques, and smooth-coated otter	Possible X Medium	**Moderate**	**Impact added by TAC**	TAC • Establish designated areas for food and waste disposal • Install monkey-proof bins • Conduct information sessions on what to do upon encountering wildlife	Less Likely X Medium	**Minor**	-
	Priority 1 Impact to health of personnel due to tick/ mite bites from feral dogs	Possible X Medium	**Moderate**	**Impact added by TAC**	TAC • Implement proper use of Personal Protective Equipment (PPE)	Less Likely X Low	**Minor**	-
	Priority 1 Injury caused by tree falls due to damaged roots	Possible X High	**Moderate**	**Impact added by TAC**	TAC • Establish Tree Protection Zones (TPZ) for trees to be retained • Regularly monitor health of trees on project site	Less Likely X Medium	**Minor**	-

Table 4-17 Impact assessment on site's biodiversity with corresponding mitigation measures for project area post-construction activities

General description (AECOM Table 7-4 p95)	Specific description (AECOM p109- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p128-130)
Receptor:	**Habitats**							
<u>Habitat degradation</u> Trampling on vegetation, pollution (e.g., contamination of surface waterbodies, dust, litter) from increased human activities	Light, temperature, and humidity changes expected throughout the development and an increase in human traffic is expected to lead to habitat degradation associated with human use such as litter, trampling and waste discharge. <u>Priority 1 or 2 habitats:</u> abandoned-land forest, young secondary forest, stream and swampy scrubland and herbaceous vegetation.	Likely X Medium	**Moderate**	**Moderate**	TAC • Use native plant for successful reinstatement of working areas. • Restore vegetation area with native trees of diverse structures and species. AECOM • Educational signs • Restriction of visitor entry into the more sensitive habitats	Likely X Very Low	**Minor**	**Minor**
	<u>Priority 3 habitats:</u> scrubland and herbaceous vegetation, managed vegetation and waste woodland.	Likely X Low	**Minor**	**Minor**		Likely X Negligible	**Negligible**	**Negligible**
<u>Change in species composition</u> Long-term changes in light, temperature, and humidity in habitats surrounding facility structures that favour the growth of certain exotic plants and fauna, and	Residents/ public release exotic pets or introduce non-native plants through landscaping. Likelihood **less likely**	Possible X Low	**Minor**	**Minor**	TAC • Use native plant for successful reinstatement of working areas. • Restore vegetation area with native trees of diverse structures and species. • Install educational sign boards around proposed nature park area • Conduct Biodiversity awareness programmes for residents	Less Likely X Low	**Minor**	**Negligible**

General description (AECOM Table 7-4 p95)	Specific description (AECOM p109- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p128-130)
deliberate/ accidental introduction of exotic species (such as released/ escaped pets)								
Receptor:	**Flora Species**							
<u>Mortality</u> Plant mortality due to long-term changes in microclimate	2 native species, *Oxyceros longiflorus* and *Hoya diversifolia,* may face competition from exotic species. Intensity **High**	Possible X High	**Moderate**	**Moderate**	AECOM • Recreating suitable microclimates • Active plant management	Less Likely X High	**Minor**	**Major to minor** *(Hoya diversifolia, Oxyceros longiflorus*)
<u>Poaching</u> Stealing/ poaching of plants by humans due to ethnobotanical value (e.g., ornamental, medicinal, food, craft)	*Hoya diversifolia* is a charismatic plant that may be poached by members of the public. Intensity **High**	Possible X Medium	**Moderate**	**Moderate**	AECOM • Limit visitor entry into the preserved areas to low impact activities such as hiking • Restrict entry timings to daylight hours (0700-1900h)	Less Likely X Medium	**Minor**	-
	Nine Priority 1 native and exotic species are not charismatic species or species not popularly known to have ethnobotanical values. However, it is important to note that *Agelaea macrophylla, B. heterostachya, Connarus semidecandrus* and *Litsea firma* may only have one specimen remaining on site after construction is complete.	Less Likely X Medium	**Minor** (Higher intensity due to number of specimens)	**Negligible**		Less Likely X Low	**Minor**	-
<u>Competition from exotic plant species</u>	Eight Priority 1 native species are likely to be impacted due to competition from exotic species. Intensity **High**	Possible X Medium	**Moderate**	**Minor**	AECOM • Recreating suitable microclimates • Active plant management	Less Likely X Medium	**Minor**	-

General description (AECOM Table 7-4 p95)	Specific description (AECOM p109- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p128-130)
Accidental and/ or intentional release of exotic plants by humans	One Priority 1 exotic species, *Bambusa heterostachya,* to experience negligible impact from competition from exotic species.	Possible X Negligible	**Minor**	**Negligible**		Less Likely X Negligible	**Negligible**	-
Receptor:	**Fauna Species**							

<u>Accidental injury or mortality</u> Navigation failures into the wrong areas and entrapment in facility structures, including bird collision into buildings (distorted perceptions of reflective surfaces on buildings as flyways, greenery, and/ or water) and collision with vehicles	<u>Butterflies</u> can escape quickly from danger.
	Intensity **Low**
	Likelihood **Unlikely**
		Unlikely X Negligible	**Negligible**	**Negligible**	TAC
					• Buffer planting around the proposed nature park area.
					• Incorporation of bird-safe window designs including:
					  • Reducing the amount of glass surfaces, particularly on high levels.
					  • Increase the visibility of glass through the addition of structural components such as columns or sunshades.
					  • Use non-mirrored glass or treat glass to increase visibility.
					  • Include decals or stickers to increase the visibility of glass.
					• Conduct Biodiversity awareness programmes for residents
					
					AECOM
					• Limit human activities and access within the propose nature park area
					• Implement road calming measures
						Unlikely X Negligible	**Negligible**	-

	<u>Reptiles:</u> 2 snakes (red-tailed pipe snake [*Cylindrophis ruffus*] and puff-faced water snake [*Homalopsis buccata*]) are highly susceptible to roadkill as they cannot escape quickly from danger. Intensity **High** Likelihood **Less Likely**	Less Likely X High	**Minor**	**Minor**		Less Likely X Medium	**Minor**	-
	<u>Birds</u> face additional risk of collision with buildings. Migratory birds (e.g., ruddy kingfisher [*Halcyon coromanda*]) and forest-edge frugivores (e.g., Oriental pied hornbill [*Anthracoceros albirostris*], blue-crowned hanging parrot [L*oriculus galgulus*], long-tailed parakeet [*Psittacula longicauda*], straw-headed bulbul [*Pycnonotus zeylanicus*]) are known to be highly susceptible to building collision. Intensity **High** Likelihood **Possible**	Possible X High	**Moderate**	**Moderate**		Less Likely X High	**Minor**	**Moderate to minor** (16 species) **Moderate to Minor** (*Rallina fasciata, Rostratula benghalensis*)

General description (AECOM Table 7-4 p95)	Specific description (AECOM p109- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p128-130)
	Birds: Other resident bird species/ families have been recorded to collide with buildings (e.g., accipitrids, blue-eared kingfisher [*Alcedo meninting]*, rusty-breasted cuckoo [*Cacomantis sepulcralis]*, Oriental magpie-robin [*Copsychus saularis]*, blue-rumped parrot [*Psittinus cyanurus]*, and the owls). Intensity **Medium** Likelihood **Possible**	Possible X Medium	**Moderate**	**Moderate – Minor**		Less Likely X Medium	**Minor**	
	Non-volant mammals: Smooth otter (*Lutrogale perspicillata*) is ground-dwelling and could collide with vehicles. Intensity **High** Likelihood **Possible**	Possible X High	**Moderate**	**Moderate**		Less Likely X High	**Minor**	**Minor**
	Bats: 2 species (lesser bamboo bat [*Tylonycteris fulvida*] and greater bamboo bat [*Tylonycteris malayana*]) should have low susceptibility as any retained or planted bamboo clusters should remain unaffected. Intensity **Low** Likelihood **Less likely**	Less Likely X Low	**Minor**	**Minor**		Unlikely X Low	**Negligible**	-
Human-wildlife conflict Negative consequences of human-wildlife interactions, such as	Butterflies (13 species) are not perceived as nuisances or threats by members of the public. Intensity **Negligible** Likelihood **Unlikely**	Unlikely X Negligible	**Negligible**	**Negligible**	TAC • Buffer planting around the proposed nature park area. • Implement wildlife-safe designs AECOM • Limit human activities and access in the proposed nature park area	Unlikely X Negligible	**Negligible**	-
	Reptiles: 2 snakes (red-tailed pipe snake [*Cylindrophis ruffus*] and puff-faced water snake	Less Likely	**Minor**	**Minor**		Unlikely X Medium	**Negligible**	-

General description (AECOM Table 7-4 p95)	Specific description (AECOM p109- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p128-130)
deliberate killing and depopulation of faunal species perceived as nuisances or threats by members of the public	[*Homalopsis buccata*]) can possibly be perceived as threats to members of the public, but they have low tolerance to human presence and activities, making them less susceptible to human encounters. Intensity **Low** Likelihood **Less Likely**	X Medium			• Install educational sign boards • For the smooth otters, otter-proof water features with large ornamental fishes			
	Birds are not perceived as nuisances or threats by members of the public. Intensity **Negligible** Likelihood **Unlikely**	Unlikely X Negligible	**Negligible**	**Negligible**		Unlikely X Negligible	**Negligible**	
	The red junglefowl (*Gallus gallus*) is typically deemed a nuisance in residential areas due to its loud vocalisation, and were culled in the past in response to residents' complaints. Intensity **Medium** Likelihood **Possible**	Possible X Medium	**Moderate**	**Moderate**		Less Likely X Medium	**Minor**	**Moderate**
	Non-volant mammals: Smooth otter (*Lutrogale perspicillata*) is deemed a nuisance and has been reported feeding on ornamental fish and biting people. Intensity **Medium** Likelihood **Possible**	Possible X Medium	**Moderate**	**Moderate**		Less Likely X Medium	**Minor**	**Minor**
	Bats: 2 species (lesser bamboo bat [*Tylonycteris fulvida*] and greater bamboo bat [*Tylonycteris malayana*] can possibly be perceived as threats to members of the public (e.g., potential reservoirs of zoonotic	Unlikely X Low	**Negligible**	**Negligible**		Unlikely X Low	**Negligible**	-

General description (AECOM Table 7-4 p95)	Specific description (AECOM p109- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p128-130)
	diseases), but their low tolerance to human presence and environments make them less susceptible to human encounters. Intensity **Low** Likelihood **Unlikely**							
Poaching Poaching of fauna by humans	Butterflies are not commonly known to be traded as pets. Intensity **Low** Likelihood **Unlikely**	Unlikely X Low	**Negligible**	**Negligible**	TAC • Buffer planting around the proposed nature park area AECOM • Limit human activities and access in the proposed nature park area • Install educational sign boards • For the smooth otters, otter-proof water features with large ornamental fishes	Unlikely X Low	**Negligible**	-
	Butterflies: The common birdwing (*Troides helena cerberus*) may be susceptible to poaching for the wildlife trade. Intensity **High** Likelihood **Less Likely**	Less Likely X Medium	**Minor**	**Minor**		Unlikely X Medium	**Negligible**	-
	Reptiles are not commonly known to be traded as pets Intensity **Low** Likelihood **Unlikely**	Less Likely X Medium	**Minor**	**Negligible**		Unlikely X Medium	**Negligible**	-
	Birds: Straw-headed bulbul (*Pycnonotus zeylanicus*) is a widely traded songbird globally. Intensity **High** Likelihood **Less likely**	Less Likely X High	**Minor**	**Minor**		Unlikely X High	**Negligible**	-
	Birds: Oriental magpie-robin (*Copsychus saularis)* and blue-crowned hanging-parrot (*Loriculus galgulus*) are commonly traded as pets. Intensity **Medium** Likelihood **Less likely**	Less Likely X Medium	**Minor**	**Minor**		Unlikely X Medium	**Negligible**	-
	Birds: Red junglefowl (*Gallus gallus*), long-tailed parakeet (*Psittacula longicauda*), and blue-rumped parrot (*Psittinus cyanurus*) are not commonly	Less Likely X Low	**Minor**	**Negligible**		Unlikely X Low	**Negligible**	-

General description (AECOM Table 7-4 p95)	Specific description (AECOM p109- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p128-130)
	traded as pets, but are charismatic birds. Intensity **Negligible** Likelihood **Unlikely**							
	Non-volant mammals: Smooth otter (*Lutrogale perspicillata*). Intensity **Negligible** Likelihood **Unlikely**	Unlikely X Low	**Negligible**	**Negligible**		Unlikely X Low	**Negligible**	-
	Bats: 2 species (lesser bamboo bat [*Tylonycteris fulvida*] and greater bamboo bat [*Tylonycteris malayana*]. Intensity **Negligible** Likelihood **Unlikely**	Unlikely X Low	**Negligible**	**Negligible**		Unlikely X Low	**Negligible**	-
Light disturbances Increase in light levels from development	Butterflies (13 species) are only slightly sensitive to changes in light levels. Intensity **Low** Likelihood **Likely**	Likely X Low	**Moderate**	**Moderate**	TAC • Lighting installed should be directed downwards and inwards, toward project site (i.e., directly away from forested areas) • Use the minimum number and intensity of lights required for safety and security • Buffer planting should include thick hedge plants which can reduce the amount of light entering the forest. AECOM • Establish “dark buffers” at the edges of the propose nature park area. • Minimise light spills. • Use wildlife-friendly light properties or features.	Less Likely X Low	**Minor**	**Minor**
	Reptiles: 2 snakes (red-tailed pipe snake [*Cylindrophis ruffus*] and puff-faced water snake [*Homalopsis buccata*]) are nocturnal and highly sensitive to changes in light levels. Intensity **High** Likelihood **Likely**	Likely X High	**Major**	**Major**		Likely X Medium	**Moderate**	**Moderate**
	Birds: Five crepuscular birds that are highly sensitive to light changes: black-crowned night heron (*Nycticorax nycticorax*), red-wattled lapwing (*Vanellus indicus*), red-legged crake (*Rallina fasciata*), buffy fish owl (*Ketupa ketupu*), and spotted wood owl (*Strix seloputo*) Intensity **High** Likelihood **Likely**	Likely X High	**Major**	**Major**		Likely X Medium	**Moderate**	**Moderate**
	Birds: Remaining 15 bird species that are diurnal and	Likely X Medium	**Moderate**	**Moderate**		Likely X Low	**Moderate**	**Moderate**

General description (AECOM Table 7-4 p95)	Specific description (AECOM p109- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p128-130)
	slightly sensitive to light changes Intensity **Medium** **L**ikelihood **Likely**							
	Non-volant mammals: Smooth otter (*Lutrogale perspicillata*) is diurnal and slightly sensitive to changes in light levels as increased light levels from residential areas may affect their rhythmic patterns and reduce the suitability of habitats for resting at night. Intensity **Medium** Likelihood **Likely**	Likely X Medium	**Moderate**	**Moderate**		Likely X Low	**Moderate**	**Moderate**
	Bats: 2 species (lesser bamboo bat [*Tylonycteris fulvida*] and greater bamboo bat [*Tylonycteris malayana*] are nocturnal and highly sensitive to changes in light levels. Insects, bats' prey, may be attracted to lights and affect the bats' foraging efficiency. Likelihood **Likely**	Likely X High	**Major**	**Major**		Likely X Medium	**Moderate**	**Moderate**
Human disturbances Increase in human traffic flow, such as residents and visitors	Butterflies (13 species) are only slightly sensitive to human presence and may move away from an approaching human but will not leave the habitat entirely. Intensity **Low** Likelihood **Likely**	Likely X Low	**Moderate**	**Moderate**	TAC • Buffer planting around the proposed nature park area AECOM • Limit human activities in the proposed nature park area	Possible X Low	**Minor**	**Moderate**
	Reptiles: 2 snakes (red-tailed pipe snake [*Cylindrophis ruffus*] and puff-faced water snake [*Homalopsis buccata*]) are sensitive to human presence, and will move away from	Likely X Medium	**Moderate**	**Moderate**		Possible X Medium	**Moderate**	**Moderate**

General description (AECOM Table 7-4 p95)	Specific description (AECOM p109- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p128-130)
	humans and avoid human activity. Intensity **Medium** Likelihood **Likely**							
	Birds: 9 species are sensitive to human presence: blue-eared kingfisher (*Alcedo meninting*), ruddy kingfisher (*Halcyon coromanda*), black-crowned night heron (*Nycticorax nycticorax*), red-wattled lapwing (*Vanellus indicus*), rusty-breasted cuckoo (*Cacomantis sepulcralis*), blue-rumped parrot (*Psittinus cyanurus*), straw-headed bulbul (*Pycnonotus zeylanicus*), red-legged crake (*Rallina fasciata*), and greater painted-snipe (*Rostratula benghalensis*) Intensity **High** Likelihood **Likely**	Likely X High	**Major**	**Major**		Possible X High	**Moderate**	**Moderate**
	Birds: Remaining 11 species are more tolerant of human presence Intensity **Medium** Likelihood **Likely**	Likely X Medium	**Moderate**	**Moderate**		Possible X Medium	**Moderate**	**Moderate**
	Non-volant mammals: Smooth-coated otter (*Lutrogale perspicillata*). Intensity **Medium** Likelihood **Likely**	Likely X Low	**Moderate**	**Moderate**		Possible X Low	**Minor**	**Moderate**
	Bats: 2 species (lesser bamboo bat [*Tylonycteris fulvida*] and greater bamboo bat [*Tylonycteris malayana*] are sensitive to human presence and may avoid roosting in	Likely X Low	**Moderate**	**Moderate**		Possible X Low	**Minor**	**Moderate**

General description (AECOM Table 7-4 p95)	Specific description (AECOM p109- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p128-130)
	bamboo clusters near areas with high human presence. Likelihood **Likely**							
Receptor:	**Human**							
Human health and safety	Priority 1 Attacks of maintenance personnel by animals including wild pigs, feral dogs, and long-tailed macaques	Possible X Medium	**Moderate**	**Impact added by TAC**	TAC • Avoid consuming food within forested areas • Implement wildlife-safe designs • Conduct information sessions on what to do upon encountering wildlife	Less Likely X Medium	**Minor**	-

5. HYDROLOGY AND SURFACE WATER QUALITY

5.1. Introduction

This Section describes the relevant laws and standard for water quality that are applicable to the project, the methodology and results for the baseline hydrological conditions and water quality at the study area. It also describes potential impacts on hydrology and water quality due to the construction works of the project, and recommendation for mitigation measures. A quantitative impact assessment approach was used for the assessment of impacts.

5.2. Relevant Environmental Legislation, Guidelines and Standards

The Sewerage and Drainage Act 2001 authorizes PUB to construct, maintain and improve sewerage and drainage systems, to regulate the discharge into these systems, and to issue codes of practice or specifications.

Sewerage and Drainage (Surface Water Drainage) Regulation 2007 specifies a maximum discharge limit for total suspended solids (TSS) as 50 milligrams per liter (mg/L) of the discharge. This regulation also requires every contractor to comply with the Code of Practice (COP) on Surface Water Drainage.

Sewerage and Drainage (Trade Effluent) Regulation 2007 requires contractors to obtain approval from PUB for discharge of trade effluent into a public sewer. The nature or type of effluent discharge must be approved by PUB. Effluent quality must comply with those specified in the regulations, and if required by PUB, must be treated prior to discharge.

The discharge of wastewater into open drains, canals and rivers is regulated by the Environmental Protection and Management (EPM) Act 2002 and the EPM (Trade Effluent) Regulation 2008. The Act and its regulations prescribe allowable limits for trade effluent discharge to controlled watercourse and are administered by NEA.

COPs and guidelines relevant to public utilities and watercourse are listed below.

- COP for Environmental Control Officers;
- COP on Surface Water Drainage 2018;
- COP on Pollution Control (SS 593: 2013);
- Guidebook for Qualified Erosion Control Professional (QECP) 2006;
- Guidebook on Erosion and Sediment Control at Construction Sites 2018.

5.3. Hydrology Profile

5.3.1. Catchment Profile

In addition to Singapore not having natural aquifers or lakes, Singapore has finite land that allows for the storing of collected stormwater. In order to provide for its citizen's water intake, Singapore aims to maximized stormwater harvesting. Presently, stormwater is collected through an extensive network of river, canals and drains that are channeled into the 17 reservoirs located around the island. The project study area is located within the catchment area of Lower Seletar Reservoir (Figure 5.1), which was

created by damming the mouth of Sungei Seletar in 1985 under the Sungei Seletar/Bedok Water Scheme. Surface water runoff collected from the project site would eventually drain into the Lower Seletar Reservoir through natural streams or other watercourses that are present or located in the vicinity of the stie. The reservoir's main body covers an area of approximately 360 hectares (UnTourist Singapore, 2015). Lower Seletar Reservoir is located in the Northern Region and is the largely flat with some undulating terrains. Lower Seletar's reservoir has a unique feature that allows it to tap the storm runoffs the surrounding urbanised catchments. Ponds located in Yishun, Tampines Bedok and Yan Kit form eight of the collection stations.

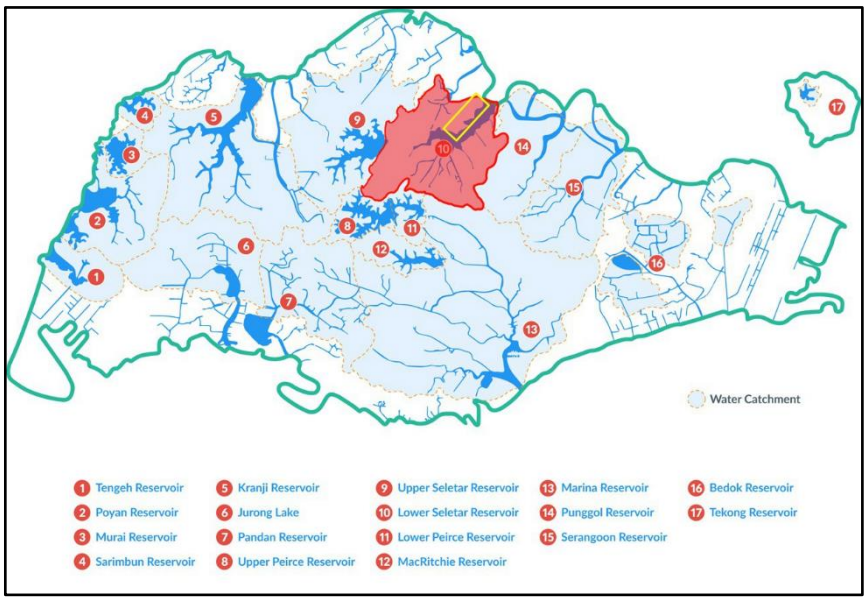


Figure 5.1 Catchment areas of Singapore (Public Utilities Board, 2019)
Approximate location of the project site is demarcated in the yellow box within the Lower Seletar Reservoir catchment area (shaded red).

Annual monthly rainfall over the last decade at the project study area is shown in Figure 5.2, adapted from historical records at the Seletar weather station that is closest to the site and would be representative of the site.

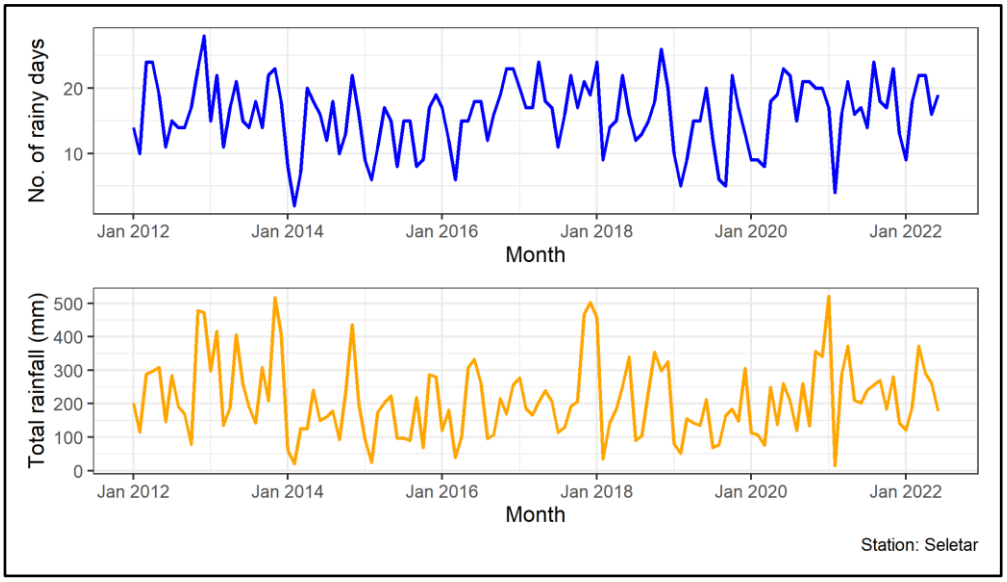


Figure 5.2 Annual monthly rainfall at the Seletar rain gauge station through 2012–2022

5.3.2. Drainage Profile

Based on the study by AECOM (2022), as well as the data collected from the present site reconnaissance, only one stream was identified within the study area (Figure 5.3).



Figure 5.3 Location of the natural stream in the project study area

The natural stream originates from a point at its west and flows eastwards, and likely originates from runoff from rainwater as well as surface runoff from the streets that are located in the vicinity of the area. Culverts that are located in the south-west of the border collects the stormwater from the urbanized area, eventually connecting to a culvert located just before the golf course before it empties into the Lower Seletar catchment

area. In addition, the varying elevation of the study area seems to cause differences in the water table, allowing for groundwater flow to recharge the stream and keeps it running constantly. As a result of the continuous water flow, the low-laying area is swampy in nature. During dry weather conditions, the observed flow in the natural stream is seen to be perennial flow with a low water velocity during dry weather. During wet weather, the water flows faster.



Figure 5.4 Photograph showing the stream within project study area

5.4. Natural Stream Characterization

There is one stream within the EIA study area as noted earlier. This section provides the approach as well as findings of stream characterisation survey.

5.4.1. Stream Characterization Approach

The stream characterisation survey covered details such as substrate type, riparian vegetation composition, wetted width and depth, and flow velocity of streams as explained below. The survey locations were selected based on coverage of the stream profile variations, site conditions and safe access. As the water had dried up at SC-5, no stream characterisation was conducted there.



Figure 5.5 Location map of stream characterisation survey points

Wetted depth and width

The depths and widths of the stream channels were measured using a scale ruler as well as a metric transect tape depending upon site conditions.

Canopy cover

To measure the canopy cover at each measuring point, a photo of the canopy was taken parallel to the ground at eye-level. The percentage of canopy cover derived is an estimate of the total area covered by vegetation over the entire frame of in the taken canopy photo.

Substrate type

The soil substrate on bank and in the waterbody were determined by visual assessment and the “texture by feel” method (Thien, 1979); moistened soil of roughly 25 g was taken from the stream bank and shaped into a ball. The ball of soil was then squeezed between the thumb and forefinger upwards beyond the fingers and allowed to break from its own weight. The length of the resultant ribbon was measured. Subsequently, a pinch of soil was wet and rubbed to determine the soil composition. Table 5-1 shows the different substrate types from the soil textures and lengths of the ribbon formed.

Table 5-1 Classification of substrate types **(Thein, 1979)**

Ribbon Length	Texture of Soil	Soil Substrate
No ribbon	NA	Loamy sand
≤ 2.5 cm	Gritty	Sandy loam
	Smooth	Silt loam
	Between gritty and smooth	Loam
2.5 – 5 cm	Gritty	Sandy clay loam
	Smooth	Silty clay loam
	Between gritty and smooth	Clay loam
> = 5 cm	Gritty	Sandy clay
	Smooth	Silty Clay
	Between gritty and smooth	Clay

Sandy substrates were further categorized visually according to their estimated particle size in Table 5-2 using the "texture by feel" method as well as by placing a sample of the soil and spreading is across a scale card. Where the "texture by feel" method could not be conducted because the stream mapping point was Inaccessible, the substrate type will be visually assessed.

Table 5-2 Classification of sand particle sizes **(Wentworth, 1922)**

Sand Particle Type	Particle Size
Fine sand	≤ 0.5 mm
Coarse sand	> 0.5 mm and ≤ 2 mm
Fine gravel	≤ 4 mm
Coarse gravel	> 4 mm and ≤ 32 mm
Cobble	≤ 256 mm

Riparian vegetation

The species of plants that are immediately next to, within or overhead each measuring point are identified by qualified arborist.

Flow velocity

To measure the flow velocity of steams, the float and measure method was employed with the use of a ping pong ball as a float, a metric transect tape to set the travel distance, and a stopwatch to measure the duration of travel. To begin the measurement, the transect tape is laid down parallel to the stream flow, and the start and end points determined. Upon the float entering the start point of the stretch, the stopwatch would start timing, and when the float passes the end point of the stretch, the stopwatch would stop timing and the duration is recorded. Each measurement was taken 3 times and then averaged out to obtain the more accurate approximate time taken for the float to cover the predetermined stretch.

To calculate the flow velocity using the recorded data, the formula below is used:

$$Flow\ Velocity = \frac{Distance}{Time} x\ Friction\ Correction$$

Friction correction refers to the numerical factors used in order to factor in the difference

in flow due to the channel surfaces, where 0.9 is used for smooth surfaces (e.g., drains, canals, and sandy bottoms) and 0.85 is used for rough surface rock bottoms. Since the top of a stream typically flows faster than the bottom due to friction against the stream bed, applying friction correction events out the flow velocity (Harrelson et al., 1994). The metric used for flow velocity is meter per second (m/s).

5.4.2. Stream Characterization Results

Characterization of Stream

The natural stream is identified as one of the major streams that cuts through the east side of the project study area, with man-made inlets feeding its source, and a man-made outlet directing the flow out of the project study into a canal through a culvert. The stream has been observed to transport a significant amount of discharge in both wet and dry weather conditions and have significantly varying wetted widths and depths throughout its course through the side, which has been observed to be generally consistent with the terrain and its physical characteristics. In general, the channels in this stream have narrow wetted widths and depths. Near the culvert located west of the project site, the stream appears to merge with the swampy marsh-like environment as surface flow and can no longer be observed as a flowing stream. Towards the east border of the project study area, this stream also contains a minor tributary stream that joins the main channel just before flowing out through the culvert.

Table 5-3 provides the results of stream characterisation survey

Table 5-3 Results of stream characterization survey

Survey Point ID	Stream Cross-Section & Canopy Photograph	Wetted Width & Depth (m)	Soil Substrate	Flow Velocity (m/s)	Riparian Vegetation	Associated Fauna
SC-1	Overview:  Cross-section:  Canopy: 	Width: 3.17m Depth: 0.09m	Stream: Concrete Bank: Concrete	0.0374 m/s	*Falcataria falcata, Macaranga gigantea*	Guppy, Buffy fish owl, *Physa acuta*, Common snakehead, *Amerianna carinata*
SC-2	Overview:	Width: 3.5m Depth: 0.37m	Stream: Very coarse sand. Well-sorted	NA, stagnant during both wet and dry weather	Bamboo grass (Bambusoidea), *Cenchrus purpureus*	Guppy, Malayan trumpet snail, *Physa acuta*, *Ameiranna carinata*,

Survey Point ID	Stream Cross-Section & Canopy Photograph	Wetted Width & Depth (m)	Soil Substrate	Flow Velocity (m/s)	Riparian Vegetation	Associated Fauna
	 Cross-section:  Canopy: 		Bank: Medium and coarse sand. Moderately to well-sorted			
SC-3	Overview: 	Width: 3.63m Depth: 0.117m	Stream: Sandy clay & very coarse sand. Very poorly sorted Bank: Silt & fine sand	0.126m/s	*Cenchrus purpureus, Nypa fruticans*	Guppy, Indochinese spotted barb, Mosquito fish, Common snakehead, Malayan trumpet snail, Large-tailed nightjar

Survey Point ID	Stream Cross-Section & Canopy Photograph	Wetted Width & Depth (m)	Soil Substrate	Flow Velocity (m/s)	Riparian Vegetation	Associated Fauna
	 Cross-section:  Canopy:					

Survey Point ID	Stream Cross-Section & Canopy Photograph	Wetted Width & Depth (m)	Soil Substrate	Flow Velocity (m/s)	Riparian Vegetation	Associated Fauna
						
SC-4	Overview:  Cross-Section:  Canopy: 	Width: 2.76m Depth: 0.47m	Stream: Coarse sand. Moderately sorted. Bank: Sandy clay. Fine to very fine.	NA, stagnant during both wet and dry weather	*Vitex pinnata*	Guppy, Common snakehead, Indochinese spotted barb, *Pila scutata*, Malayan giant frog

5.5. Surface Water Quality

5.5.1. Baseline Methodology

Sampling was conducted at four (4) accessible points covering all various locations along the natural stream (Figure 5.6). The SINGLAS-accredited Astar Laboratory Pte Ltd was utilized to conduct surface water quality sampling and analyze the collected samples. One round of water quality monitoring was carried out for dry weather and wet weather each. Both the dry and wet weather samples were collected on 26 August 2022 (Table 5-4). As the water had dried up at WS-5, no water quality monitoring was conducted there. The secondary water quality data from previous reports from surveys carried out in the vicinity of the project area, as well as data collected by various government agencies, if available, were reviewed and utilised.

Table 5-4 Coordinates and dates of surface water quality sampling location

ID	Coordinates		Date of Sampling	
			Dry Weather	Wet Weather
WS-1	1.420923	103.849678	26/08/2022	26/08/2022
WS-2	1.420959	103.850166		
WS-3	1.419512	103.851873		
WS-4	1.419951	103.851954		



Figure 5.6 Location of surface water quality sampling points in project study area

The following parameters were tested using their respective testing method for each surface water quality sample (Table 5-5), where APHA is a standard method for Determination of Water and Wastewater (APHA, 2017).

Table 5-5 Surface water quality parameters tested in the laboratory

Parameter	Unit	Threshold Limit	Test Method
In-situ			
Temperature	°C	45 [1]	APHA 2550 B
pH @ 25°C	pH unit	6-9 [1]	APHA 4500-H-B
Turbidity	NTU	-	APHA 2130 B
Conductivity	µS/cm	-	APHA 2510 B
Dissolved Oxygen	mg/L	≥ 4 [2]	APHA 4500-O-G
Total Dissolved Solids	mg/L	-	APHA 2540 C
Ex-situ			
Total Suspended Solids	mg/L	50 [1]	APHA 2540 D
Total Organic Carbon (TOC)	mg/L	-	APHA 5310 B
Total Nitrogen	mg/L	-	SOP-WAT-048
Total Phosphorus	mg/L	5 [1]	HI93713/HI801
Nitrate (NO_3)	mg/L	-	HI93713/HI801
Phosphate (PO_4)	mg/L	5 [1]	HI93713/HI801
Ammoniacal Nitrogen	mg/L	1 [2]	APHA 4500-NH_3-E
Arsenic (As)	mg/L	0.1 [1]	APHA 3120 B
Cadmium (Cd)	mg/L	0.1 [1]	APHA 3120 B
Copper (Cu)	mg/L	0.1 [1]	APHA 3120 B
Lead (Pb)	mg/L	0.1 [1]	APHA 3120 B
Zinc (Zn)	mg/L	1 [1]	APHA 3120 B
Nickel (Ni)	mg/L	1 [1]	APHA 3120 B
Iron (Fe)	mg/L	10 [1]	APHA 3120 B
Chromium (Cr)	mg/L	1 [1]	APHA 3120 B
Mercury (Hg)	mg/L	0.05 [1]	VGA/ICPOES
Enterococcus	cfu/100mL	40,000 [3] / 200,000 [4]	APHA 9230 C

[1] NEA's Allowable Limits for Trade Effluent Discharge to Watercourse guideline

[2] Vietnam's National Technical Regulation on Surface Water Quality for Protection of Aquatic Lives (QCVN 38: 2011/TTBTNMT) (2011)

[3] Values for dry weather sample in Australian Guideline for Urban Stormwater Management (2000)

[4] Values for wet weather sample in Australian Guideline for Urban Stormwater Management (2000)

5.5.2. Baseline Results

The main standard used for surface water quality comparison was the Allowable Limits for Trade Effluent Discharge under EPM (Trade Effluent) Regulation (NEA, 2020). Furthermore, the values of parameters not regulated by Singapore standards were compared with relevant standards from other countries in the region. Hence, Dissolved Oxygen values were compared with the limit in Vietnam's National Technical Regulation QCVN 38:2011/TTBTNMT on Surface Water Quality for Protection of Aquatic Lives (2011), while Enterococcus values were compared with the Australian Guideline for Urban Stormwater Management (2000).

Previous Study

Surface water quality sampling was conducted by the previous Environmental Baseline Study (EBS) (AECOM, Specialist Consultancy Services for Hydraulics Study at Yishun Neighbourhood 5 (Miltonia), 2022) at the locations shown in Figure 5.7.

Table 5-6 summarises the parameters from the previous surveys (AECOM, Specialist Consultancy Services for Hydraulics Study at Yishun Neighbourhood 5 (Miltonia), 2022) that are comparable to the present surveys.

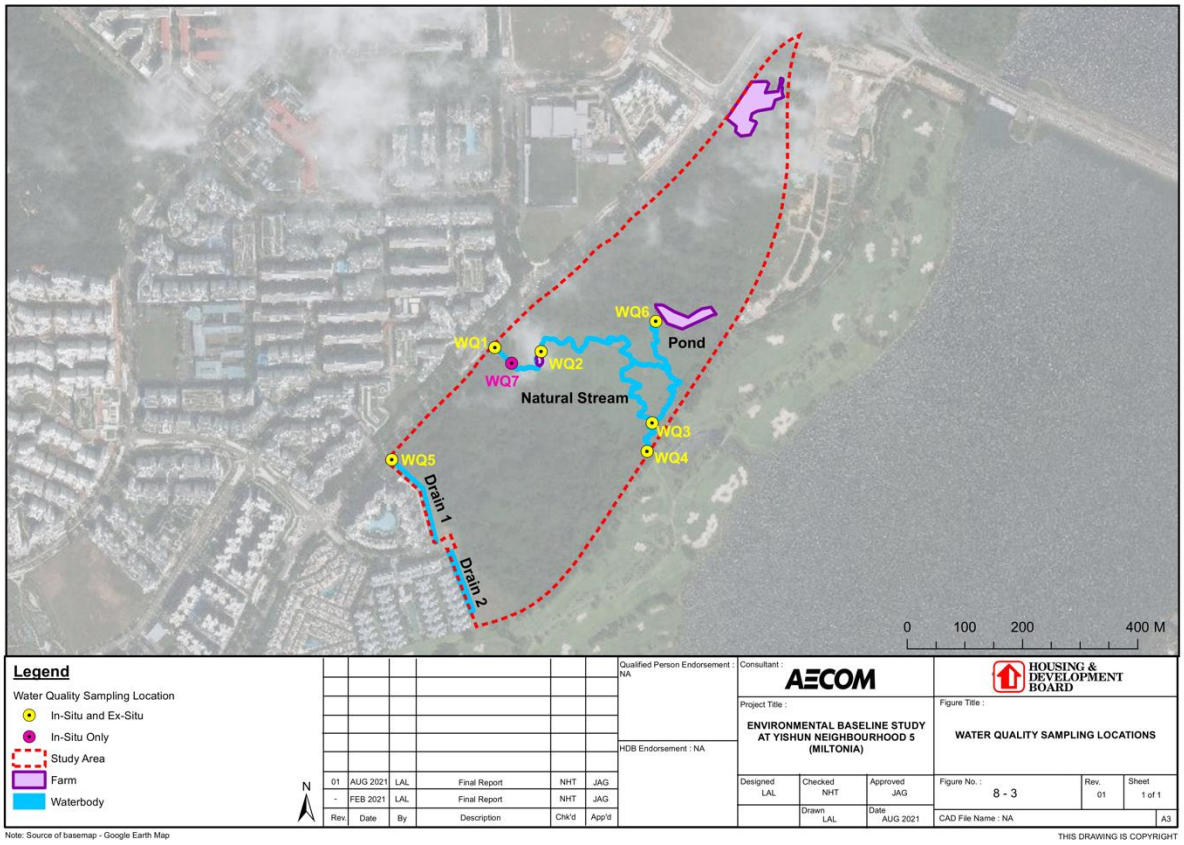


Figure 5.7 Location of surface water quality sampling points, adapted from AECOM **(2022)**

Table 5-6 In-situ surface water quality results by the previous EBS

Parameter	Unit	Threshold	WQ1	WQ2	WQ3	WQ4	WQ6	WQ7	WQ1	WQ2	WQ3	WQ4	WQ5	WQ6	WQ7
			Dry Weather						Wet Weather						
In-situ															
Temperature	°C	45 [1]	28.4	27.7	26.4	26.5	26.7	28.0	27.9	27.9	26.9	27.2	29.4	27.6	27.8
Conductivity	µS/cm	–	206.14	300.41	282.73	284.85	223.50	314.48	101/68	84.88	265.50	209.90	154.06	223.74	81.60
pH	pH unit	6–9 [1]	7.24	7.12	6.53	6.55	**5.71**	7.64	7.77	7.75	6.77	6.95	8.80	5.87	7.91
Dissolved Oxygen	mg/L	≥ 4 [2]	6.78	**0.77**	**1.42**	**1.15**	**1.29**	**3.57**	7.44	7.15	**1.57**	**2.45**	7.90	5.75	7.38
Turbidity	NTU	-	1.4	3.5	1.9	12.0	9.9	NA	15.0	18.0	6.7	8.8	13.0	16.0	NA
Total Dissolved Solids	mg/L	–	126	186	179	180	141	194	63	52	166	131	92	138	50
Ex-situ															
Total suspended solids (TSS)	mg/L	50 [1]	3.0	8.0	1.7	13.8	2.8	NA	6.0	13.0	4.0	2.0	2.0	7.0	NA
Total Organic Carbon (TOC)	mg/L	-	3.41	4.71	4.76	4.78	2.16	NA	4.04	3.91	5.87	5.29	11.1	3.06	NA
Total Nitrogen	mg/L	-	1.60	3.43	0.51	0.62	0.50	NA	1.48	1.21	0.86	0.74	1.17	0.81	NA
Total Phosphorus (TP)	mg/L	5 [1]	0.062	0.123	0.065	0.071	0.034	NA	0.089	0.049	0.081	0.240	0.088	0.031	NA
Nitrate (NO_3)	mg/L	-	0.72	0.53	0.01	0.06	0.20	NA	0.75	0.64	0.12	0.18	0.14	0.21	NA
Phosphate (PO_4)	mg/L	5 [1]	0.086	0.160	0.103	0.104	0.038	NA	0.130	0.100	0.150	0.120	0.190	0.050	NA
Ammoniacal Nitrogen	mg/L	1 [1]	0.37	**2.01**	0.10	0.21	0.05	NA	0.21	0.12	0.34	0.22	0.03	0.07	NA
Lead (Pb)	mg/L	0.1 [1]	<0.5	<0.5	<0.5	<0.5	0.6	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Enterococcus	Cfu/100mL	40,000 [1]	0	965	1055	1005	330	NA	10	12000	10000	11000	12000	17000	NA
Biochemical Oxygen Demand , BOD_5			1.34	1.70	<1	1.40	<1	NA	2.19	2.35	1.24	1.28	1.56	1.58	NA

Note: Values in Bold denote non-conformity to the respective water quality standard.

[1] NEA's Allowable Limits for Trade Effluent Discharge to Watercourse guideline (2020)

[2] Vietnam's National Technical Regulation on Surface Water Quality for Protection of Aquatic Lives (QCVN 38:2011/TTBTNMT) (2011)

Current Study

In this study, the results of surface water quality analysis in comparison with the relevant standards are tabulated in Table 5-7 and Table 5-8 respectively for the dry weather sampling and wet weather sampling. The laboratory analysis reports are provided in **Appendix F**.

Table 5-7 Result of dry weather period surface water quality samples

Parameter	Unit	Threshold	WS-1	WS-2	WS-3	WS-4
In-situ						
Temperature	°C	45 [1]	27.3	29.0	26.3	28.4
pH @ 25°C	pH unit	6-9 [1]	7.6	7.4	6.3	7.7
Turbidity	NTU	-	5.7	6.1	55	1.5
Conductivity	µS/cm	-	428	278	207	85
Dissolved Oxygen	mg/L	≥ 4 [2]	6.10	7.32	**0.99**	5.97
Total Dissolved Solids	mg/L	-	214	139	103	43
Ex-situ						
Total Suspended Solids (TSS)	mg/L	50 [1]	**188**	**69.0**	19.3	**167**
Total Organic Carbon (TOC)	mg/L	-	3.88	5.81	2.38	3.74
Total Nitrogen	mg/L	-	4.5	4.8	2.9	3.0
Total Phosphorus	mg/L	5 [1]	1.1	1.1	0.2	0.1
Nitrate (NO_3)	mg/L	-	0.1	<0.1	<0.1	<0.1
Phosphate (PO_4)	mg/L	5 [1]	1.1	1.1	0.2	0.1
Ammoniacal Nitrogen	mg/L	1 [2]	**4.36**	**4.66**	<0.01	**3.03**
Arsenic (As)	mg/L	0.1 [1]	<0.01	<0.01	<0.003	<0.01
Cadmium (Cd)	mg/L	0.1 [1]	<0.003	<0.003	<0.10	<0.001
Copper (Cu)	mg/L	0.1 [1]	<0.10	<0.10	<0.10	<0.10
Lead (Pb)	mg/L	0.1 [1]	<0.10	<0.10	<0.10	<0.10
Zinc (Zn)	mg/L	1 [1]	<0.10	0.13	<0.10	0.15
Nickel (Ni)	mg/L	1 [1]	<0.10	<0.10	<0.10	<0.10
Iron (Fe)	mg/L	10 [1]	0.19	1.10	0.12	2.07
Chromium (Cr)	mg/L	1 [1]	<0.05	<0.05	<0.05	<0.05
Mercury (Hg)	mg/L	0.05 [1]	0.016	<0.001	0.002	<0.001
Enterococcus	cfu/100mL	40,000 [3]	2600	8	7000	645

Note: Values in **bold** and shaded grey denote non-conformity to the respective water quality standard.

[1] NEA's Allowable Limits for Trade Effluent Discharge to Watercourse guideline

[2] Vietnam's National Technical Regulation on Surface Water Quality for Protection of Aquatic Lives (QCVN 38: 2011/TTBTNMT) (2011)

[3] Values for dry weather sample in Australian Guideline for Urban Stormwater Management (2000)

Table 5-8 Result of wet weather period surface water quality samples

Parameter	Unit	Threshold	WS-1	WS-2	WS-3	WS-4
In-situ						
Temperature	°C	45 [1]	27.4	27.6	26.4	27.6
pH @ 25°C	pH unit	6-9 [1]	8.2	7.6	6.5	7.6
Turbidity	NTU	-	33	37	360	37
Conductivity	µS/cm	-	256	236	110	222
Dissolved Oxygen	mg/L	≥ 4 [2]	5.32	6.35	**3.22**	5.86
Total Dissolved Solids	mg/L	-	128	118	54	111
Ex-situ						
Total Suspended Solids (TSS)	mg/L	50 [1]	4.0	6.0	24.0	32.3
Total Organic Carbon (TOC)	mg/L	-	1.94	2.15	3.93	3.88
Total Nitrogen	mg/L	-	1.1	1.1	0.9	2.6
Total Phosphorus	mg/L	5 [1]	0.1	0.2	0.3	0.1
Nitrate (NO_3)	mg/L	-	<0.1	<0.1	<0.1	<0.1
Phosphate (PO_4)	mg/L	5 [1]	0.1	0.2	0.3	0.1
Ammoniacal Nitrogen	mg/L	1 [2]	0.99	**1.10**	0.77	**2.17**
Arsenic (As)	mg/L	0.1 [1]	<0.01	<0.01	0.06	<0.01
Cadmium (Cd)	mg/L	0.1 [1]	<0.003	<0.003	<0.003	0.01
Copper (Cu)	mg/L	0.1 [1]	<0.10	<0.10	<0.10	<0.10
Lead (Pb)	mg/L	0.1 [1]	<0.10	<0.10	<0.10	<0.10
Zinc (Zn)	mg/L	1 [1]	<0.10	<0.10	<0.10	<0.10
Nickel (Ni)	mg/L	1 [1]	<0.10	<0.10	<0.10	<0.10
Iron (Fe)	mg/L	10 [1]	<0.10	0.30	0.14	0.56
Chromium (Cr)	mg/L	1 [1]	<0.05	<0.05	<0.05	<0.05
Mercury (Hg)	mg/L	0.05 [1]	<0.001	<0.001	<0.001	<0.001
Enterococcus	cfu/100mL	40,000 [3]	627	745	5000	2782

Note: Values in **bold** and shaded grey denote non-conformity to the respective water quality standard.

[1] NEA's Allowable Limits for Trade Effluent Discharge to Watercourse guideline (2020)

[2] Vietnam's National Technical Regulation on Surface Water Quality for Protection of Aquatic Lives (QCVN 38:2011/TTBTNMT) (2011)

[3] Values for wet weather sample in Australian Guideline for Urban Stormwater Management (2000)

In general, the surface water quality of streams within the project study area complied with the applicable standards (National Environment Agency, 2020; Ministry of Natural Resources and Environment of Vietnam, 2011; Agriculture and Resource Management Council of Australia and New Zealand, 2000). There were, however, instances where the readings were outside the threshold limits.

Dissolved Oxygen (DO) concentrations were lower than the threshold at WS13 during dry and wet weather. Their values were under 4 mg/L, which is below the threshold considered ideal for the survival of aquatic life (Ministry of Natural Resources and Environment of Vietnam, 2011). Although DO is lower than the threshold in Stream 1, the aquatic surveys have shown that a variety of freshwater fishes and molluscs can survive and thrive in that habitat. However, the species found in this stream (including the rare *Pila scutata* apple snail are known to exist in disturbed habitats.

Total Suspended Solids (TSS) values exceeded the threshold at WS1, WS2, and WS4 during dry weather. During site visits, it was observed that the water was fairly low and slow following was stagnant at multiple instances. This could have allowed sediments to

remain at the same location, hence accumulating more suspended solids at a relatively more stagnant stream areas than at flowing stream areas.

Ammoniacal Nitrogen concentrations exceeded the threshold at WS1, WS2, and WS4 during dry weather and at WS2 and WS4 during wet weather. This can be potentially explained by certain human activities (e.g., waste accumulation, fertilizing) happening outside the study area and polluting the upstream portion of this water body.

Most of the parameters tested in the previous EBS complied with NEA standards (2020). In the previous study (AECOM, 2022), three samples from Stream 1 (WQ3, WQ4, and WQ6) were shown to have low concentrations of dissolved oxygen during both dry and wet weather. This is similar to our present surveys which also found low concentrations of dissolved oxygen near midstream and downstream of Stream 1.

According to the whole of the survey results, the existing water bodies within the study area are generally in good condition, except for the parts of streams with the stagnant water conditions. These results provide the short-term trend based on current surveys. An extended period of water quality monitoring can help to define the water quality of these streams more accurately based on long-term trend.

5.6. Impact Assessment

The impact assessments of the construction on the hydrological baseline of the site, as well as the mitigation measures to address them will be covered in Section 5.7 below.

5.6.1. Identification of Potential Impacts

Pre-construction / Construction Phase

The EIA area comprises of secondary forest and one natural stream. Project activities planned during pre-construction (construction phase is not part of the impact assessment) in this area include, site clearance, streams backfilling, pipejacking for the installation of sewer pipelines, and earthworks.

Based on these activities, the following potential impacts on hydrology and surface water quality are identified:

Disturbance to Local Hydrological Pattern

There is one natural stream located within or nearby the project direct footprint (see Figure 5.3). This natural stream creates a habitat for aquatic fauna and construction activities altering the streams will cause degradation and loss of the riparian habitats. As the intention is for the stream to be retained post-development as a park, the surrounding areas area hoarded up. The main sub-catchment of Stream 1 receives a regular dry weather flow (during non-rainy days) from the upstream catchment that constitutes the surrounding street area. In addition, the natural stream receives water flow from the subsurface runoff from the nearby areas. The flows out into Orchid Country Club through a 3-cell box culvert. The existing box culvert will be replaced by one north of the existing location, and the naturalised stream outside the proposed nature park area will be diverted. The flow diversion may negatively impact the naturally channelised riparian

environments and its associated flora and fauna along the stream. It is therefore important to ensure that the source of the flow is maintained in the stream in order to minimise the impact of the development on the stream. More on mitigation measures for the development of this stream will be covered in the Section 5.7 below.

Soil Erosion and Surface Run-off

Construction run-offs may cause physical, biological, and/or chemical impacts to the water stream within study area during the pre-construction phase. The sources of pre-construction run-offs include:

- Land clearance and site preparation of construction work areas
- Run-off from exposed soil surface and earth working areas
- Run-off from dust suppression sprays
- Soil investigation works

The physical effects include potential blockage of drainage channels and increased concentrations of suspended solids in the drainage channels. Adverse impacts to drainage pattern may occur from soil erosion and sediment transport during storm events. Impacts would be greatest in areas with exposed, disturbed soil. This impact could worsen if there are soil stockpiles left unprotected in the construction area and no mitigation measures in place. Run-offs containing particulates will increase concentrations of suspended solids, sediments, and other contaminants and thus create additional burdens on the existing drainage system in the project site.

Significant amounts of silt discharge into water streams may affect the local ecology if proper mitigation measures are not implemented.

Trade Effluent

Activities such as piling works and soil investigation are expected to generate trade effluent, which include processed wastewater such as slurry, concrete washout, and excess grouting materials from construction activities. Such wastewater is alkaline in nature, may consist of fine particles and may contain heavy metals. If trade effluent contains significant amount of concrete and cement-derived materials, the release may cause primary chemical effects such as increasing turbidity, discoloration, elevation in pH, and accretion of solids. Secondary effects may also result in intoxication of water biota due to elevated pH value, and reduced decay rate of microorganisms and photosynthetic rate due to the decreased light penetration.

Hence, this trade effluent from pre-construction site shall not be discharged to any receiving watercourse without prior treatment. The trade effluent must be treated separately from surface runoff before being discharged. Treated trade effluent from construction activities must have written approval from NEA if it is to be discharged into public storm water or PUB if it will be discharged into public sewers. The trade effluent must also be treated to levels prescribed by NEA if it will be discharged into the public drain or PUB if it will be discharged into the public sewer.

Fuel & Chemical Spillage and Waste Disposal

The pre-construction activities may require on-site storage and handling of potential

polluting material such as fuel, lubricant, cement, as well as packaging materials. The following sources can affect the water quality within project area.

- Fuel and lubricants from maintenance of vehicles and equipment;
- Illegal dumping of debris and rubbish (such as packaging, construction materials, and refuse); and
- Accidental spillage of liquids stored on-site; e.g., oil/grease, solvents.

No hazardous chemicals as specified under EPM (Hazardous Substances) regulations are expected to be used in the construction activities in this Area. It is expected that the Contractor will deploy adequate portable chemical toilets for construction personnel. These toilets shall be cleaned and maintained by approved sanitary waste collector. Hence, no impact is expected from sewage discharge on surface water quality.

Sewage Discharge

The onsite sanitary facilities within pre-construction work areas may generate sewage. The discharge of sewage into the surrounding Canal either directly or indirectly could adversely impact the water quality of the receiving streams. It is expected that the Contractor will deploy adequate portable chemical toilets for construction personnel. These toilets shall be cleaned and maintained by approved sanitary waste collector. Hence, no impact is expected from sewage discharge on surface water quality.

The impacts and effects on water quality from the pre-construction activities is expected to be controlled with the implementation of a well-designed temporary drainage system within work area and proposed mitigation measure provided in the next Section.

Post-Construction Phase

There is currently a plan to retain the stream within the proposed nature park area. The design of this concept has yet to be finalised. It is expected that it will be designed in consultation with relevant authorities (e.g. NParks, PUB).

Minor impacts to water quality and hydrology for this development mainly include sedimentation in water courses due to silty runoff from exposed soil. However, as the impacts are expected to be minimal, only some mitigation measures are proposed and would be discussed below.

5.6.2. Evaluation of Potential Impacts

Table 5-9 and Table 5-10 summarises the impacts with their corresponding impact significances before and after the implementation of mitigation measures, which are elaborated in the following section.

5.7. Mitigation Measures

5.7.1. Pre-construction / Construction Phase

In order to mitigate impacts to hydrology and water streams from development activities, the following measures are recommended.

Disturbance to Local Hydrological Pattern

Due to the importance of the stream to be retained as a habitat for aquatic fauna, the planned project should ensure that the flow of that stream is not affected by the development activities. Where possible, the stream should also retain its naturalised bank design, and the edges of the stream could also be further enhanced with native riparian vegetation to increase the resilience of the stream habitat to impacts from changes due to the proposed development.

To ensure that mitigation measures are effective in protecting the stream habitat, regular monitoring of the stream is to be conducted. Details of the specific monitoring requirement is provided in Section 12 as part of EMMP framework.

Other mitigation measures for changes to the local hydrological pattern include:

- Ensure that no site investigation boreholes are located within 10 m on either side of the stream.
- The minimum dry weather flow to be maintained in the natural stream for sustainability.

Implementation of Earth Control Measures (ECM)

An appropriate ECM plan is to be prepared and endorsed by a Qualified Erosion Control Professional (QECP) before the commencement of construction works in all Areas. Moreover, the ECM plan should cover the following items:

- Contractor to engage QECP to prepare the ECM plan and PUB's approval to be obtained for ECM plan.
- ECM plan to be implemented by the Contractor before staring the work.
- ECM tanks utilised for the project must have surplus capacities to minimise overflow and silty discharge.
- Proper sediment control measures designed to capture and retain silt are to be implemented which may include perimeter cut-off drains, perimeter silt fence, silt traps and silt treatment systems.
- QECP to review ECM plan implementation regularly during the construction period to ensure that the measures put in place remain effective.
- Regular monitoring of ECM treatment plant performance is to be carried out by the Environmental Control Officer (ECO).
- Regular maintenance of ECM is to be carried out.
- The Contractor shall access weather forecast from the NEA website to take ECM actions before rain events.
- After rain events, earth control measures in the Area are to be inspected and maintained over the course of construction.
- To ensure that site discharges are treated to comply with respective allowable limits (e.g., 50 mg/L of TSS for discharges processed through ECM and 30 mg/L of TSS for trade effluent) before discharging into a public drain.
- Exposed earth areas shall be reduced by phasing earth works and effective scheduling of construction activities to minimise bare surfaces, planning of site layout and effective site drainage systems to facilitate flow. Measures may include the use of paving, biodegradable erosion control blankets, and canvas covers.

- ECM should only be removed after completion of the works. The QECP should authorize removal of the ECM.

Fuel & Chemical Spillage and Waste Disposal Management

- All slurry preparation activities are to be conducted within a designated area that has adequate containment measures.
- To ensure that slurry water, including bentonite slurry, is contained within the working area and does not enter any watercourses or surface water drains.
- Storage tanks for slurry and supply lines should be located as far as possible from surface water drains or watercourses.
- Storage silos and micropile storage tanks for slurry should have secondary containment.
- Bentonite use should be monitored so that excessive use could be identified to prevent bentonite materials from escaping into the ground and potentially polluting groundwater
- Waste bins to be provided within the construction work area for proper disposal of construction debris and rubbish. Foreign material should not be illegally disposed at the water bodies but removed from site by a licensed waste collector.
- All liquids should be properly labelled and stored in appropriate containers at safe location on site (i.e., under a shelter with kerb surrounding). Personnel handling these liquids should also be suitably trained.
- Vehicle fuelling and major maintenance to be minimised within the project area.
- Appropriate concrete wash bays should be provided and should not be performed in or near any water body.
- Water used for dust control should not be allowed to cause erosion within the work area or to run offsite.
- Excess loose soil and rock to be contained prior to the commencement of works.
- Regular water quality monitoring is to be conducted according to the proposed Environmental Monitoring Plan during construction and post-construction stage.
- Foreign material should not be illegally disposed at the water bodies but removed from site by a licensed waste collector.

Trade Effluent Management

- Contractor to provide storage tanks of adequate size and sufficient numbers to temporarily store trade effluent before treatment and disposal.
- Contractor to provide sampling point and inspection for collection of trade effluent to be tested for parameters stipulated in the Regulations, depending on the discharge point (i.e., sewer, watercourse, controlled watercourse).
- Regular water quality monitoring is to be conducted according to the proposed Environmental Monitoring Plan during construction and post-construction stage.
- Contractor should install and maintain trade effluent treatment facilities (e.g., slurry treatment plant, grease trap and suspended solid settling tank) as per NEA's requirements.
- Area where trade effluent is being transported out to be kerbed to minimise spills

Oil & Fuel Spillage and Waste Disposal

- To ensure that bentonite is contrained within the working area and does not enter any

watercourses or surface water drains

- Storage tanks for slurry and supply lines should be located as far as possible from surface water drains or watercourse
- Storage silos and micropile storage tanks should have secondary containment
- Areas where bentonite is mixed are to be surrounded with a small boundary wall or contained within a bund. This action will help to control the slurry produced and prevent it from entering surface water drains or watercourses.
- Bentonite use should be monitored so that excessive use could be identified to prevent bentonite materials from escaping into the ground and potentially polluting groundwater
- Waste bins to be provided within the construction work area for proper disposal of construction debris and rubbish. Foreign material should not be illegally disposed at the water bodies but removed from site by a licensed waste collector.
- All liquids should be properly labelled and stored in appropriate containers at safe location on site (i.e., under a shelter with kerb surrounding). Personnel handling these liquids should also be suitably trained.
- Vehicle fuelling and major maintenance to be minimised within the project area.
- Appropriate concrete wash bays should be provided and should not be performed in or near any water body.
- Water used for dust control should not be allowed to cause erosion within the work area or to run offsite.
- Excess loose soil and rock to be contained prior to the commencement of the works.
- Emergency spill kits should be provided by contractor on site in the event of any chemical spillages. Emergency response team should also be trained in the use of these spill kits.

5.7.2. Post-Construction Phase

As the stream will be retained in the site post-construction, there is a need to ensure that the source of the flow coming from the man-mad culvert and surface run-off from nearby vegetation is maintained for the stream, as it is the lifeline of the ecosystem sustaining the stream. It should also be ensured that the discharge of process effluent or release of pollutants through this outlet into the stream should not be allowed to avoid adverse impact on the ecosystem due to water quality degradation. In the case where there is suspicion of discharge or pollutants to this stream, water quality checks can also be conducted.

5.8. Residual Impacts

The residual impacts were evaluated using the same method as in the previous study (AECOM, 2022) in Table 5-9 and Table 5-10 with due consideration that the recommended mitigation measures are implemented by the Contractor. The residual impacts are likely to be in the band of negligible to minor and considered acceptable.

Table 5-9 Impact assessment based on site's hydrology and surface water quality with corresponding mitigation measures for project area construction activities

General description (AECOM p185-197)	Specific description (AECOM p185-197)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p185-197)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p219-220)
Surface water quality Changes in water quality due to solid and toxic waste generated by construction and daily routine activities **Receptor: Ecological**	Priority 1 Natural Stream habitat and its biocenosis may be exposed to toxic chemicals and unfavourable low-dissolved oxygen conditions caused by degradation of solid waste in the water. Intensity **Medium** Consequence **Medium** Likelihood **Rare**	Possible X High	**Moderate**	**Minor**	AECOM • Revision of proposed land use plan. • Limits for discharge flow rates, to ensure no backwater effect. • For any construction activities that may alter the alignment of or block drains, appropriate measures such as watercourse diversion should be carried out to avoid localised flooding. The flow diversion should follow PUB's Code of Practice on Surface Water Drainage. The diverted flow shall be treated to meet NEA Trade Effluent Discharge Limits. • Provision of silt curtains along key watercourses to prevent dispersion of suspended solids. • Daily inspections of waterbodies • Ensure water quality of discharged flow is treated to meet the NEA Trade Effluent Discharge Limits for controlled watercourses prior to discharge. TAC • Implementation proper Earth Control Measures (ECMs). • Contractor to provide storage tanks of adequate size and sufficient numbers to temporarily store trade effluent before treatment and disposal. • Restrict entry of site personnel into conserved area	Rare X Medium	**Minor**	-
	Priority 1 Scrubland and herbaceous vegetation (swampy) habitat and its biocenosis are located within a low-lying area and contaminated baseflow and runoff from surrounding construction sites may flow into the watercourse. Intensity **Medium** Consequence **Medium** Likelihood **Rare**	Possible X High	**Moderate**	**Moderate**		Rare X Medium	**Minor**	
	Priority 3 Abandoned-land forest and its biocenosis do not experience flow from the Natural Stream. Intensity **Low** Consequence **Very Low** Likelihood **Unlikely**	Rare X Low	**Negligible**	**Negligible**		Unlikely X Low	**Negligible**	
	Priority 3 Other terrestrial habitats and its biocenosis do not experience flow from the Natural Stream. Intensity **Low** Consequence **Very Low** Likelihood **Unlikely**	Rare X Low	**Negligible**	**Negligible**		Unlikely X Low	**Negligible**	
Surface water quality Changes in water quality due to solid	Priority 1 On-site construction workers may come into direct contact with potentially contaminated water within the construction site. Intensity **Medium**	Rare X Medium	**Minor**	**Minor**		Unlikely X Medium	**Negligible**	

General description (AECOM p185-197)	Specific description (AECOM p185-197)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p185-197)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p219-220)
and toxic waste generated by construction and daily routine activities **Receptor: Human**	Consequence **Medium** Likelihood **Rare**				• Ensure detention basins have appropriate detention time to ensure no backwater effect • Carry out appropriate measures for construction activities that may alter the alignment of or block drains, such as watercourse diversion to avoid localised flooding • Provision of silt curtains along key watercourses to prevent dispersion of suspended solids • Daily inspections of waterbodies • Ensure water quality of discharged flow is treated to meet the NEA Trade Effluent Discharge Limits for controlled watercourses prior to discharge • Implement dust control measures • Install hard surfaced haul routes • Only use cutting, grinding and sawing equipment with dust suppression water spray mechanisms • Erect hoarding around dusty activities and site boundary of minimum 1.8m height (following BCA guideline) • Impose and signpost maximum speed-limit of 25 km/hr on paved roads and 15km/hr on unpaved roads and work areas • No burning of waste on site			
	<u>Priority 3</u> Residents and visitors of existing developments in the vicinity of the proposed development are sufficiently far away from the Project Site and will not experience nuisance or develop health issues due to a change in water quality. Intensity **Low** Consequence **Very Low** Likelihood **Unlikely**	Unlikely X Low	**Negligible**	**Negligible**		Unlikely X Low	**Negligible**	
	<u>Priority 2</u> Off-site visitors taking part in recreational activities in Orchard Country Club may experience odour from the polluted Stream, but their health and safety are not compromised. Intensity **Low** Consequence **Very Low** Likelihood **Rare**	Rare X Low	**Minor**	**Minor**		Rare X Low	**Minor**	
	<u>Priority 1</u> Off-site visitors taking part in water sports in Lower Seletar Reservoir may contact the waterbody that may potentially be contaminated since it is located downstream of the Natural Stream. Intensity **Medium** Consequence **Medium** Likelihood **Possible**	Possible X Medium	**Moderate**	**Moderate**		Possible X Low	**Minor**	

General description (AECOM p185-197)	Specific description (AECOM p185-197)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p185-197)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p219-220)
<u>Surface water quality</u> Changes in water quality due to solid and toxic waste generated by construction and daily routine activities **Receptor: Socio-Economic**	<u>Priority 2</u> Orchard Country Club has water features for landscaping purposes, and a change in water quality will not disrupt regular operational activities, even though mild nuisance may possibly arise from such deterioration of water quality. Intensity **Low** Likelihood **Rare**	Rare X Low	**Negligible**	**Minor**	• Revegetate earthworks and exposed areas / soil stockpiles • Regular water quality monitoring is to be conducted according to the proposed Environmental Monitoring Plan during construction and post-construction stage. • Contractor should install and maintain trade effluent treatment facilities as per NEA's requirements • Appropriate concrete wash out areas should be provided and should not be performed in or near any water body. • To ensure that bentonite is contained within the working area and does not enter any watercourses or surface water drains. • Storage silos should have secondary containment. • Bentonite use should be monitored so that excessive use could be identified to prevent bentonite materials from escaping into the ground and potentially polluting groundwater. • Waste bins to be provided within the construction work area for proper disposal of construction debris and rubbish. • Vehicle fuelling and major maintenance to be minimised within the project area. • Foreign material should not be illegally disposed at the water	Rare X Low	**Negligible**	
	<u>Priority 1</u> Lower Seletar Reservoir is a raw water source for treated drinking water. It is downstream of the Natural Stream and receives flow, possibly containing chemicals, from the ponds in Orchid Country Club. Intensity **Medium** Consequence **Medium** Likelihood **Rare**	Rare X Medium	**Minor**	**Negligible**		Rare X Very Low	**Negligible**	
	<u>Priority 3</u> Road infrastructure, residential development and XCL World Academy do not directly utilise the water in these watercourses. Intensity **Low** Consequence **Very Low** Likelihood **Unlikely**	Unlikely X Very Low	**Negligible**	**Negligible**		Unlikely X Very Low	**Negligible**	
Changes in water quality due to liquid effluent generated by construction and daily routine activities **Receptor: Ecological**	<u>Priority 1</u> Natural Stream habitat and its biocenosis have low tolerance to changes in water quality. Intensity **High** Consequence **High** Likelihood **Possible**	Possible X High	**Moderate**	**Moderate**		Rare X Medium	**Minor**	**Minor**
	<u>Priority 1</u> Scrubland and herbaceous vegetation (swampy) habitat and its biocenosis are located within a low-lying area and contaminated wastewater discharged from the site will likely flow to these areas. Intensity **High**	Possible X High	**Moderate**	**Moderate**		Rare X Medium	**Minor**	

General description (AECOM p185-197)	Specific description (AECOM p185-197)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p185-197)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p219-220)
	Consequence **High** Likelihood **Possible**				bodies but removed from site by a licensed waste collector • Appropriate concrete wash out areas should be provided and should not be performed in or near any water body. • Emergency spill kits should be provided by contractor on site in the event of any chemical spillages. Emergency response team should also be trained in the use of these spill kits.			
	<u>Priority 3</u> Abandoned-land Forest habitat and its biocenosis does not experience flow from the Natural Stream. Intensity **Low** Consequence **Very Low** Likelihood **Unlikely**	Unlikely X Low	**Negligible**	**Negligible**		Unlikely X Low	**Negligible**	
	<u>Priority 3</u> Other terrestrial habitats and its biocenosis do not experience flow from the Natural Stream. Intensity **Low** Consequence **Very Low** Likelihood **Unlikely**	Unlikely X Low	**Negligible**	**Negligible**		Unlikely X Low	**Negligible**	
Changes in water quality due to liquid effluent generated by construction and daily routine activities **Receptor: Human**	<u>Priority 1</u> On-site construction workers may come into direct contact with potentially contaminated water within the construction site. Intensity **High** Consequence **High** Likelihood **Rare**	Rare X High	**Minor**	**Minor**		Rare X High	**Minor**	
	<u>Priority 3</u> Residents and visitors of existing developments in the vicinity of the proposed development are sufficiently far away from the Project Site and will not experience nuisance or develop health issues due to a change in water quality. Intensity **Low** Consequence **Low** Likelihood **Unlikely**	Unlikely X Low	**Negligible**	**Negligible**		Unlikely X Low	**Negligible**	

General description (AECOM p185-197)	Specific description (AECOM p185-197)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p185-197)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p219-220)
	<u>Priority 2</u> Off-site visitors taking part in recreational activities in Orchid Country Club may find deteriorated water quality unpleasant and have an odour, but their health and safety are not compromised. Intensity **Medium** Consequence **Low** Likelihood **Possible**	Possible X Medium	**Moderate**	**Moderate**		Rare X Medium	**Minor**	
	<u>Priority 1</u> Off-site visitors taking part in water sports in Lower Seletar Reservoir may contact the waterbody that may potentially be contaminated since it is located downstream of the Natural Stream. Intensity **High** Consequence **High** Likelihood **Rare**	Rare X High	**Minor**	**Minor**		Rare X High	**Minor**	
Changes in water quality due to liquid effluent generated by construction and daily routine activities **Receptor: Socio-Economic**	<u>Priority 2</u> Orchard Country Club has water features for landscaping purposes, and a change in water quality will not disrupt regular operational activities, even though mild nuisance may possibly arise from such deterioration of water quality. Intensity **Medium** Consequence **Low** Likelihood **Possible**	Possible X Medium	**Minor**	**Moderate**		Rare X Medium	**Minor**	
	<u>Priority 1</u> Lower Seletar Reservoir is a raw water source for treated drinking water. It is downstream of the Natural Stream and receives flow, possibly containing chemicals, from the ponds in Orchid Country Club. Intensity **High** Consequence **High** Likelihood **Rare**	Rare X High	**Minor**	**Minor**		Rare X High	**Minor**	

General description (AECOM p185-197)	Specific description (AECOM p185-197)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p185-197)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p219-220)
	Priority 3 Road infrastructure, residential development and XCL World Academy do not directly utilise the water in these watercourses. Intensity **Low** Consequence **Low** Likelihood **Unlikely**	Unlikely X Low	**Negligible**	**Negligible**		Unlikely X Low	**Negligible**	
Changes in water quality due to accidental spillage and release **Receptor: Ecological**	Priority 1 Natural Stream habitat and its biocenosis have low tolerance to changes in water quality. Intensity **Medium** Consequence **Medium** Likelihood **Rare**	Rare X Medium	**Minor**	**Minor**		Rare X Low	**Minor**	**-**
	Priority 1 Scrubland and herbaceous vegetation (swampy) habitat and its biocenosis are located within a low-lying area and contaminated wastewater discharged from the site will likely flow to these areas. Intensity **Medium** Consequence **Medium** Likelihood **Rare**	Rare X Medium	**Minor**	**Minor**		Rare X Low	**Minor**	
	Priority 3 Abandoned-land forest habitat and its biocenosis does not experience flow from the Natural Stream. Intensity **Low** Consequence **Very Low** Likelihood **Unlikely**	Unlikely X Low	**Negligible**	**Negligible**		Unlikely X Low	**Negligible**	
	Priority 3 Other terrestrial habitats and its biocenosis do not experience flow from the Natural Stream. Intensity **Low** Consequence **Very Low** Likelihood **Unlikely**	Unlikely X Low	**Negligible**	**Negligible**		Unlikely X Low	**Negligible**	
Changes in water quality due to	Priority 1	Rare X High	**Minor**	**Minor**		Unlikely X High	**Negligible**	

General description (AECOM p185-197)	Specific description (AECOM p185-197)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p185-197)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p219-220)
accidental spillage and release **Receptor: Human**	On-site construction workers may come into direct contact with potentially contaminated water within the construction site. Intensity **High** Consequence **High** Likelihood **Rare**							
	<u>Priority 3</u> Residents and visitors of existing developments in the vicinity of the proposed development are sufficiently far away from the Project Site and will not experience nuisance or develop health issues due to a change in water quality. Intensity **Low** Consequence **Very Low** Likelihood **Unlikely**	Unlikely X Low	**Negligible**	**Negligible**		Unlikely X Low	**Negligible**	
	<u>Priority 2</u> Off-site visitors taking part in recreational activities in Orchid Country Club may observe possible oil slick on the pond surface, which may be visually unpleasant, but they are unlikely to come in contact with surface water. Intensity **Medium** Consequence **Low** Likelihood **Possible**	Possible X Low	**Minor**	**Moderate**		Rare X Low	**Negligible**	
	<u>Priority 1</u> Off-site visitors taking part in water sports in Lower Seletar Reservoir may contact the waterbody that may potentially be contaminated since it is located downstream of the Natural Stream. Intensity **High** Consequence **High** Likelihood **Rare**	Rare X High	**Minor**	**Minor**		Unlikely X High	**Negligible**	
Changes in water quality due to accidental	<u>Priority 2</u> Orchard Country Club has water features for landscaping purposes, and a change in water quality will not disrupt regular operational	Possible X Medium	**Minor**	**Moderate**		Rare X Medium	**Minor**	

General description (AECOM p185-197)	Specific description (AECOM p185-197)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p185-197)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p219-220)
spillage and release **Receptor: Socio-Economic**	activities, even though mild nuisance may possibly arise from such deterioration of water quality. Intensity **Medium** Consequence **Low** Likelihood **Possible**							
	<u>Priority 1</u> Lower Seletar Reservoir is a raw water source for treated drinking water. It is downstream of the Natural Stream and receives flow, possibly containing chemicals, from the ponds in Orchid Country Club. Intensity **High** Consequence **High** Likelihood **Rare**	Rare X High	**Minor**	**Minor**		Rare X High	**Minor**	
	<u>Priority 3</u> Road infrastructure, residential development and XCL World Academy do not directly utilise the water in these watercourses. Intensity **Low** Consequence **Very Low** Likelihood **Unlikely**	Unlikely X Low	**Negligible**	**Negligible**		Unlikely X Low	**Negligible**	
Changes in water quality due to contaminated stormwater runoff **Receptor: Ecological**	<u>Priority 1</u> Natural Stream habitat and its biocenosis have low tolerance to changes in water quality. Intensity **Medium** Consequence **Medium** Likelihood **Possible**	Possible X Medium	**Moderate**	**Moderate**		Possible X Low	**Minor**	**Minor**
	<u>Priority 1</u> Scrubland and herbaceous vegetation (swampy) habitat and its biocenosis are located within a low-lying area and contaminated wastewater discharged from the site will likely flow to these areas. Natural Stream flow velocity is also lower when flowing through this habitat, leading to secondary impacts of the sedimentation of silt over this habitat.	Possible X Medium	**Moderate**	**Moderate**		Possible X Low	**Minor**	

General description (AECOM p185-197)	Specific description (AECOM p185-197)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p185-197)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p219-220)
	Intensity **Medium** Consequence **Medium** Likelihood **Possible**							
	<u>Priority 3</u> Abandoned-land forest habitat and its biocenosis does not experience flow from the Natural Stream. Intensity **Low** Consequence **Very Low** Likelihood **Unlikely**	Unlikely X Low	**Negligible**	**Negligible**		Unlikely X Low	**Negligible**	
	<u>Priority 3</u> Other terrestrial habitats and its biocenosis do not experience flow from the Natural Stream. Intensity **Low** Consequence **Very Low** Likelihood **Unlikely**	Unlikely X Low	**Negligible**	**Negligible**		Unlikely X Low	**Negligible**	
Changes in water quality due to contaminated stormwater runoff **Receptor: Human**	<u>Priority 1</u> On-site construction workers may come into direct contact with potentially contaminated water within the construction site. Intensity **Medium** Consequence **Medium** Likelihood **Rare**	Rare X Medium	**Minor**	**Minor**		Rare X Medium	**Minor**	
	<u>Priority 3</u> Residents and visitors of existing developments in the vicinity of the proposed development are sufficiently far away from the Project Site and will not experience nuisance or develop health issues due to a change in water quality. Intensity **Low** Consequence **Very Low** Likelihood **Unlikely**	Unlikely X Low	**Negligible**	**Negligible**		Unlikely X Low	**Negligible**	

General description (AECOM p185-197)	Specific description (AECOM p185-197)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p185-197)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p219-220)
	<u>Priority 2</u> Off-site visitors taking part in recreational activities in Orchid Country Club may find the contaminated pond a nuisance or an unpleasant sight, but their health and safety will not be compromised. Intensity **Medium** Consequence **Low** Likelihood **Rare**	Rare X Medium	**Minor**	**Minor**		Rare X Medium	**Minor**	
	<u>Priority 1</u> Off-site visitors taking part in water sports in Lower Seletar Reservoir may contact the waterbody that may potentially be contaminated since it is located downstream of the Natural Stream. Runoff may contain high levels of pollutants such as enterococcus, which may pose risks to human health. Intensity **Medium** Consequence **Medium** Likelihood **Rare**	Rare X Medium	**Minor**	**Minor**		Rare X Medium	**Minor**	
Changes in water quality due to contaminated stormwater runoff **Receptor: Socio-Economic**	<u>Priority 2</u> Orchard Country Club has water features for landscaping purposes, and a change in water quality will not disrupt regular operational activities, even though mild nuisance may possibly arise from such deterioration of water quality. Intensity **Low** Consequence **Very Low** Likelihood **Possible**	Possible X Low	**Minor**	**Minor**		Possible X Low	**Minor**	
	<u>Priority 1</u> Lower Seletar Reservoir is a raw water source for treated drinking water. It is downstream of the Natural Stream and receives flow, possibly containing chemicals, from the ponds in Orchid Country Club. Intensity **Medium** Consequence **Medium**	Rare X Medium	**Minor**	**Minor**		Unlikely X Medium	**Minor**	

General description (AECOM p185-197)	Specific description (AECOM p185-197)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p185-197)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p219-220)
	Likelihood **Rare**							
	Priority 3 Road infrastructure, residential development and XCL World Academy do not directly utilise the water in these watercourses. Intensity **Low** Consequence **Very Low** Likelihood **Unlikely**	Unlikely X Low	**Negligible**	**Negligible**		Unlikely X Low	**Negligible**	
Hydrological Change in dry weather flow conditions **Receptor: Ecological**	Priority 1 Natural Stream habitat and its biocenosis is a vital habitat for fauna that are dependent on surface water. Downstream will likely have a permanent increase in flow as a result in the encroachment of the distributary of the Natural Stream. Intensity **Low** Consequence **Low** Likelihood **Certain**	Certain X Low	**Moderate**	**Moderate**		Certain X Very Low	**Minor**	**Minor**
	Priority 2 Scrubland and herbaceous vegetation (swampy) habitat and its biocenosis are characteristically associated with wet habitats and should be more tolerant to increased inundation due to increased stream width as a result of increased flow. Intensity **Low** Consequence **Very Low** Likelihood **Certain**	Certain X Low	**Minor**	**Minor**		Certain X Low	**Minor**	
	Priority 2 Abandoned-land forest habitat and its biocenosis are located sufficiently far from the Natural Stream. Intensity **Low** Consequence **Very Low** Likelihood **Unlikely**	Unlikely X Low	**Negligible**	**Negligible**		Unlikely X Low	**Negligible**	

General description (AECOM p185-197)	Specific description (AECOM p185-197)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p185-197)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p219-220)
	<u>Priority 3</u> Most of the conserved strip of young secondary forest is located north of the Natural Stream with slightly higher elevation. Intensity **Low** Consequence **Very Low** Likelihood **Possible**	Possible X Low	**Minor**	**Minor**		Rare X Low	**Negligible**	
Flooding during wet weather **Receptor: Ecological**	Localised flooding may occur during storm events due to rapid and significant increase in water levels within the site and may subsequently overflow into the nearby watercourses. Any blockage or obstruction of the watercourses may also lead to flooding during wet weather.	Unlikely X Low	**Negligible**	**Negligible**		Unlikely X Low	**Negligible**	-

Table 5-10 Impact assessment on site's hydrology and surface water quality with corresponding mitigation measures for project area operational activities

General description (AECOM p198)	Specific description (AECOM p101- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p185-197)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p220)
<u>Hydrological and Hydrodynamic</u> Changes in flow conditions during dry weather conditions **Receptor: Ecological**	There will still be a continuous dry weather flow throughout the low-lying scrubland and herbaceous vegetation swampy area and most of the habitat will still be submerged. There will also be no land use changes within the proposed nature park area, and hence no changes in the dry weather conditions in the Natural Stream and its downstream watercourses.	Unlikely X Very Low	**Negligible**	**Negligible**	AECOM • Provision of stormwater detention system within the proposed development • Provide ABC Waters Design features within the development (wetland, bioretention swales, rain garden, etc.) • Ensure strict compliance with PUB Code of Practice on Surface Water Drainage during design of storage system, to reduce peak flow during operational phase to be the same or lower than that of the existing condition. • Real-time water level sensor and alarm system; TAC • Construct stormwater detention system • Provide protection structures at the outlet at Orchid Country Club • Install continuous real-time surface water level sensors and alarms as flood warning system • Develop monthly maintenance schedule to remove litter or debris that may block stream flow	Unlikely X Very Low	**Negligible**	**-**
Change in flow conditions during flooding **Natural stream alignment**	There will still be a continuous dry weather flow throughout the low-lying scrubland and herbaceous vegetation swampy area and most of the habitat will still be submerged. There will also be no land use changes within the proposed nature park area, and hence no changes in the dry weather conditions in the Natural Stream and its downstream watercourses.	Likely X Medium	**Moderate**	**Moderate**		Likely X Very Low	**Minor**	**Minor**
Change in flow conditions during flooding **Receptor: Ecological**		Possible X Very Low	**Minor**	**Minor**		Possible X Very Low	**Minor**	
<u>Surface water quality</u> Changes in water quality due to solid and liquid waste generated by daily activities	<u>Priority 1</u> Natural Stream habitat and its biocenosis have low tolerance to changes in water quality. Intensity **Medium** Consequence **Medium** Likelihood **Possible**	Possible X Medium	**Moderate**	**Moderate**		Possible X Low	**Minor**	**Negative Minor - Positive**
	<u>Priority 1</u> Scrubland and herbaceous vegetation (swampy) habitat and its biocenosis are located within a low-lying area and	Possible X Medium	**Moderate**	**Moderate**		Possible X Low	**Minor**	

General description (AECOM p198)	Specific description (AECOM p101- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p185-197)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p220)
Receptor: Ecological	contaminated wastewater that has entered from the drainage network will eventually flow into this habitat. Intensity **Medium** Consequence **Medium** Likelihood **Possible**							
	Priority 3 Natural Stream is unlikely to flow through the abandoned-land forest habitat and its biocenosis during dry weather but may overflow during major storm events. Intensity **Low** Consequence **Very Low** Likelihood **Rare**	Rare X Low	**Minor**	**Minor**		Rare X Low	**Minor**	
	Priority 3 Natural stream does not flow through other terrestrial habitats and its biocenosis. Intensity **Low** Consequence **Very Low** Likelihood **Unlikely**	Unlikely X Low	**Negligible**	**Negligible**		Unlikely X Low	**Negligible**	
Surface water quality Changes in water quality due to solid and liquid waste generated by daily activities **Receptor: Human**	Priority 2 Future residents, visitors and maintenance workers are unlikely to have direct contact with the contaminated water in the watercourse. Intensity **Low** Consequence **Very Low** Likelihood **Rare**	Rare X Low	**Negligible**	**Minor**		Rare X Low	**Negligible**	
	Priority 3 Residents and visitors of existing developments in the vicinity are sufficiently far away from the Project Site. Intensity **Low** Consequence **Very Low**	Unlikely X Low	**Negligible**	**Negligible**		Unlikely X Low	**Negligible**	

General description (AECOM p198)	Specific description (AECOM p101- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p185-197)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p220)
	Likelihood **Rare**							
	<u>Priority 2</u> Visitors of Orchid Country Club are unlikely to have direct contact with the contaminated water in the golf course pond. Intensity **Low** Consequence **Very Low** Likelihood **Possible**	Possible X Low	**Minor**	**Minor**		Rare X Low	**Negligible**	
	<u>Priority 1</u> Participants taking part in water sports within Lower Seletar Reservoir may contact the waterbody that may potentially be contaminated since it is located downstream of the Natural Stream. Intensity **Medium** Consequence **Medium** Likelihood **Unlikely**	Unlikely X Medium	**Negligible**	**Negligible**		Unlikely X Medium	**Negligible**	
<u>Surface water quality</u> Changes in water quality due to solid and liquid waste generated by daily activities **Receptor: Socio-Economic**	<u>Priority 2</u> Orchid Country Club has water features for landscaping purposes, and a change in water quality will not disrupt regular operational activities, even though mild nuisance may possibly arise from such deterioration of water quality. Intensity **Low** Consequence **Very Low** Likelihood **Rare**	Rare X Low	**Minor**	**Minor**		Unlikely X Low	**Negligible**	
	<u>Priority 3</u> Lower Seletar Reservoir is a raw water source for treated drinking water. It is downstream of the Natural Stream and receives flow, possibly containing	Unlikely X Medium	**Negligible**	**Negligible**		Unlikely X Medium	**Negligible**	

General description (AECOM p198)	Specific description (AECOM p101- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p185-197)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p220)
	chemicals, from the ponds in Orchid Country Club. Intensity **Medium** Consequence **Very Low** Likelihood **Unlikely**							
	<u>Priority 3</u> Proposed and existing developments do not directly utilise the water in these watercourses. Intensity **Low** Consequence **Very Low** Likelihood **Unlikely**	Unlikely X Low	**Negligible**	**Negligible**		Unlikely X Low	**Negligible**	
Changes in water quality due to contaminated stormwater runoff **Receptor: Economic**	<u>Priority 1</u> Natural Stream habitat and its biocenosis have low tolerance to changes in water quality. Intensity **Medium** Consequence **Medium** Likelihood **Possible**	Possible X Medium	**Moderate**	**Moderate**		Possible X Low	**Minor**	**Negative Minor - Positive**
	<u>Priority 1</u> Scrubland and herbaceous vegetation (swampy) habitat and its biocenosis are located within a low-lying area and it is likely that stormwater runoff will eventually flow into this habitat. Intensity **High** Consequence **High** Likelihood **Possible**	Possible X High	**Moderate**	**Moderate**		Rare X Medium	**Minor**	
	<u>Priority 3</u> Abandoned-land forest habitat and its biocenosis does not experience flow from the Natural Stream. Intensity **Low** Consequence **Very Low** Likelihood **Rare**	Rare X Low	**Minor**	**Minor**		Rare X Low	**Minor**	

General description (AECOM p198)	Specific description (AECOM p101- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p185-197)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p220)
	<u>Priority 3</u> Other terrestrial habitats and its biocenosis do not experience flow from the Natural Stream. Intensity **Low** Consequence **Very Low** Likelihood **Unlikely**	Unlikely X Low	**Negligible**	**Negligible**		Unlikely X Low	**Negligible**	
Changes in water quality due to contaminated stormwater runoff **Receptor: Human**	<u>Priority 2</u> Future residents, visitors and maintenance workers are unlikely to have direct contact with the contaminated water in the watercourse. Intensity **Medium** Consequence **Low** Likelihood **Rare**	Rare X Medium	**Minor**	**Minor**		Rare X Medium	**Minor**	
	<u>Priority 3</u> Residents and visitors of existing developments in the vicinity of the proposed development are sufficiently far away from the Project Site and will not experience nuisance or develop health issues due to a change in water quality. Intensity **Low** Consequence **Very Low** Likelihood **Unlikely**	Unlikely X Low	**Negligible**	**Negligible**		Unlikely X Low	**Negligible**	
	<u>Priority 2</u> Visitors of Orchid Country Club are unlikely to have direct contact with the contaminated water in the golf course pond. Intensity **Low** Consequence **Very Low** Likelihood **Possible**	Possible X Low	**Minor**	**Minor**		Possible X Low	**Minor**	
	<u>Priority 1</u> Participants taking part in water sports within Lower Seletar Reservoir may contact the waterbody that may	Rare X Medium	**Minor**	**Minor**		Rare X Medium	**Minor**	

General description (AECOM p198)	Specific description (AECOM p101- 105)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p185-197)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p220)
	potentially be contaminated since it is located downstream of the Natural Stream. Intensity **Medium** Consequence **Medium** Likelihood **Rare**							
Changes in water quality due to contaminated stormwater runoff **Receptor: Socio-Economic**	<u>Priority 2</u> Orchid Country Club has water features for landscaping purposes, and a change in water quality will not disrupt regular operational activities, even though mild nuisance may possibly arise from such deterioration of water quality. Intensity **Low** Consequence **Very Low** Likelihood **Possible**	Possible X Low	**Minor**	**Minor**		Possible X Low	**Minor**	
	<u>Priority 1</u> Lower Seletar Reservoir is a raw water source for treated drinking water. It is downstream of the Natural Stream and receives flow, possibly containing chemicals, from the ponds in Orchid Country Club. Intensity **Medium** Consequence **Medium** Likelihood **Rare**	Rare X Medium	**Minor**	**Minor**		Rare X Medium	**Minor**	
	<u>Priority 3</u> Proposed and existing developments do not directly utilise the water in these watercourses. Intensity **Low** Consequence **Very Low** Likelihood **Unlikely**	Unlikely X Low	**Negligible**	**Negligible**		Unlikely X Low	**Negligible**	

6. NOISE

6.1. Introduction

The project study area is largely forested areas with a marshland in between, located southwest of Singapore. Main source of noise comes from traffic along Yishun Ave 1 and Miltonia Close to the south and traffic within the golf course, with occasional source being the activities conducted by residents and golfers in the nearby residential areas and golf club.

This section describes the relevant standard for the ambient noise that are applicable to the Project activities, the methodology and results for the baseline noise study. It also described potential noise impacts from construction works, and recommendation for mitigation measures. A quantitative impact assessment approach is being used for assessment of impacts.

6.2. Relevant Environmental Legislation, Guidelines and Standards

The Environmental Protection and Management (Control of Noise at Construction Sites) Regulation 2008 prescribes the maximum noise levels permissible at construction sites for different days of the week, different periods of the day, and different types of premises affected. The permissible levels are listed in Table 6-1.

Table 6-1 Maximum permissible noise levels from construction sites (source: SSO)

Types of affected buildings	Leq	7am–7pm	7–10 pm	10pm –7am
Mondays–Saturdays				
(a) Hospitals, schools, institutions of higher learning, homes for aged sick, etc.	Leq 12 hrs	60 dB(A)	50 dB(A)	
	Leq 5 mins	75 dB(A)	55 dB(A)	
(b) Residential buildings located less than 150 m from the construction site	Leq 12 hrs	75 dB(A)	-	
	Leq 1 hr	-	65 dB(A)	55 dB(A)
	Leq 5 mins	90 dB(A)	70 dB(A)	55 dB(A)
(c) Buildings other than those in (a) and (b) above	Leq 12 hrs	75 dB(A)	65 dB(A)	
	Leq 5 mins	90 dB(A)	70 dB(A)	
Sundays and Public Holidays				
(a) Hospitals, schools, institutions of higher learning, homes for aged sick, etc.	Leq 12 hrs	60 dB(A)	50 dB(A)	
	Leq 5 mins	75 dB(A)	55 dB(A)	
(b) Residential buildings located less than 150m from the construction site	Leq 12 hrs	75 dB(A)	-	
	Leq 5 mins	75 dB(A)	55 dB(A)	
(c) Buildings other than those in (a) and (b) above	Leq 12 hrs	75 dB(A)	65 dB(A)	
	Leq 5 mins	90 dB(A)	70 dB(A)	

No Work Rule on Sundays and Public Holidays

In addition to the setting of the permissible noise limits, NEA has also implemented a rule prohibiting work on Sundays and Public Holidays (PH) for construction sites located within 150 m away from residential premises and noise sensitive premises as follows:

a) Construction Work Commenced on or after 1st September 2010
   - No work allowed from 10 pm on Saturday/eve of Public Holiday to 10 am on

Sunday/Public Holiday

b) Construction Work Commenced on or after 1st September 2011
   - No work allowed from 10 pm on Saturday/eve of Public Holiday to 7 am on the following Monday/day after the Public Holiday

Correction Factor for Baseline Background Noise Exceeding the Regulations

In certain areas, the baseline background noise levels may already exceed permissible noise levels outlined in Table 6-1. As such, the maximum permissible noise levels during the project activities will be adjusted according to a correction factor. The value of this factor is subject to the difference between the background noise level and permissible noise level, as shown in Table 6-2 below. This correction factor is added to the higher of the two noise levels to produce a new permissible value during the project activities.

Table 6-2 Value of correction factor accounting for baseline noise level exceedance

Difference between Permissible and Baseline Background Noise Levels (dB(A))	Correction Factor to be Added to the Higher of the Two Noise Levels (dB(A))
< 2	3
2 ≤ difference < 4	2
4 ≤ difference < 10	1
≥ 10	0

The EPM (Control of Noise at Construction Sites) Regulation 2008 is aimed to manage noise impacts on humans, rather than animals including birds, which have different hearing ranges.

As noted, the project site is inhabited by many fauna species (see Section 4) which may be sensitive to noise. Some of these species, particularly nocturnal species which rely on their hearing for movement, communication, and foraging, are likely to be impacted by increased noise levels. Chronic and frequent noise such as traffic noise interferes with anima's' abilities to detect important sounds, whereas intermittent and unpredictable noise such as piling, honking from vehicles and machinery and shouting is often perceived as a threat (Francis & Barber, 2013) This can alter species' behaviour and impair their ability to forage and avoid predation, leading to decreased survivability.

Hence, following EPM (Control of Noise at Construction Sites) Regulation 2008 noise levels during construction phase may not protect the fauna species from noise impacts. The effects of noise on fauna are poorly understood since both stimuli and responses can vary. Further discussion on the suggested threshold noise level to be considered during construction phase for the protection of fauna is provided in Section 4.

6.3. Baseline Methodology

6.3.1. Sensitive Receptors Identification

Noise can lead to annoyance due to interference with communication or disturbance to receptors involved in leisure activities, as well as sleep disturbance. The effects of noise may vary with the individual receptor and is dependent on many factors such as the activity that the receptor is engaged in, as well as the duration of noise exposure.

The criteria applied for identification of Noise Sensitive Receptor (NSR) are based on EPM (Control of Noise at Construction Sites) Regulation 2008 which are listed below:

(a) Hospitals, schools, institutions of higher learning, homes for aged sick, etc.
(b) Residential buildings located less than 150 m from the construction site
(c) Buildings other than those in (a) and (b) above

The sensitive receptor potentially affected by the proposed project have been identified (Table 6-3) through a combination of desktop study and visual surveys at the study areas.

Table 6-3 List of identified noise-sensitive receptors

Type	Description	Approximate Distance*
Workers	People working on the site (e.g., construction workers, consultants)	Within Study Area
Flora and Fauna	Flora and fauna living within project study area	Within Study Area
Residential building	Residential buildings of Vista Spring @Yishun	60m from Study Area
Residential building	Residential buildings of Skies Miltonia	90m from Study Area
Recreation	Orchid Country Club	100m from Study Area

*Approximate distance from the nearest project work area

6.3.2. Baseline Field Survey

The baseline ambient noise level was monitored at four (4) locations for a week (24 hours x 7 days) duration. Monitoring locations were chosen based on the factors such as sensitive receptor, relevance to project activity, site access and equipment security. Type 1 noise level meter Rion NL-56 was installed at each location to record the sound pressure level (Leq) with 5-minute sampling intervals for seven (7) consecutive days, yielding the data of Leq 12 hrs, Leq 1 hr, and Leq 5 mins.

The applicable noise limits follow Environmental Protection and Management (Control of Noise at Construction Sites) Regulation 2008 which prescribes the maximum noise levels permissible at construction sites for different periods and types of premises affected. The permissible levels are listed in Table 6-1 above.

Table 6-4 summarises the coordinates of monitoring stations, applicable noise limit that corresponds to the receptors the station represents, and short description of the location of each station.

Table 6-4 Location of baseline noise monitoring stations

Station ID	Monitoring Period	Latitude	Longitude	Noise Limit Type	Description of Location
N1	11 Aug 2022 – 18 Aug 2022	1.423599	103.852073	(b)	Open area next to the hoarding located north of the study area
N2	11 Aug 2022 – 18 Aug 2022	1.421311	103.853004	(c)	Forest edge located at the east of the study area, just next to Orchid Country club
N3	11 Aug 2022 – 18 Aug 2022	1.420453	103.850089	(c)	Open field next to Yishun Ave 1, located around 100m from Orchid Spring @ Yishun
N4	8 Aug 2022 – 15 Aug 2022	1.418133	103.848613	(b)	At the pavement beside the hoarding, next to the Miltonia Close Road

Figure 6.1 shows the photographs of on-site monitoring equipment setup and Figure 6.2 the location map of the noise monitoring stations. The baseline noise monitoring data are available as **Appendix G** of this report.



Figure 6.1 Photos of the on-site baseline noise monitoring equipment



Figure 6.2 Locations of the baseline noise monitoring stations within project study area

6.4. Baseline Results and Discussion

Table 6-5 and Figure 6.3 show the baseline noise level monitored by Station N1, most of which fell within the noise limit of type (b). There were a few spikes where noise levels exceeded the limits.

Table 6-5 Summary of the baseline Leq 5 mins noise monitoring results at Station N1

Date	Monitoring Period	Monitored Noise Level (dBA)			Type (b) Noise Limit Leq 5 mins (dB(A))
		Min. Leq 5 mins	Median Leq 5 mins	Max. Leq 5 mins	
Thu 11/08/2022	3pm-7pm	53.1	55.9	75	90
	7pm-10pm	52.1	54.15	56.3	70
	10pm-7am[+1]	49.4	53.35	**57.6**	55
Fri 12/08/2022	7am-7pm	50.2	55.1	66.3	90
	7pm-10pm	52.7	54.55	56.9	70
	10pm-7am[+1]	49.4	52.8	**57.1**	55
Sat 13/08/2022	7am-7pm	49.6	53.65	**96.6**	90
	7pm-10pm	51.2	53.85	58.4	70
	10pm-7am[+1]	45.2	49.15	54.9	55
Sun 14/08/2022	7am-7pm	48.8	54.1	66.6	75
	7pm-7am[+1]	44.8	51.05	**60.3**	55
Mon 15/08/2022	7am-7pm	49.1	54.8	68.6	90
	7pm-10pm	52.3	55	57.9	70
	10pm-7am[+1]	45.5	51.8	**57.2**	55
Tue 16/08/2022	7am-7pm	51.2	54.7	65.4	90
	7pm-10pm	51.9	54.3	64.2	70
	10pm-7am[+1]	46.7	50.55	**55.2**	55

Date	Monitoring Period	Monitored Noise Level (dBA)			Type (b) Noise Limit Leq 5 mins (dB(A))
		Min. Leq 5 mins	Median Leq 5 mins	Max. Leq 5 mins	
Wed 17/08/2022	7am-7pm	47	53.9	71	90
	7pm-10pm	46.7	49.3	59.2	70
	10pm-7am[+1]	49.6	53.65	**96.6**	55
Thu 18/08/2022	7am-12pm	50.1	53.8	71	90

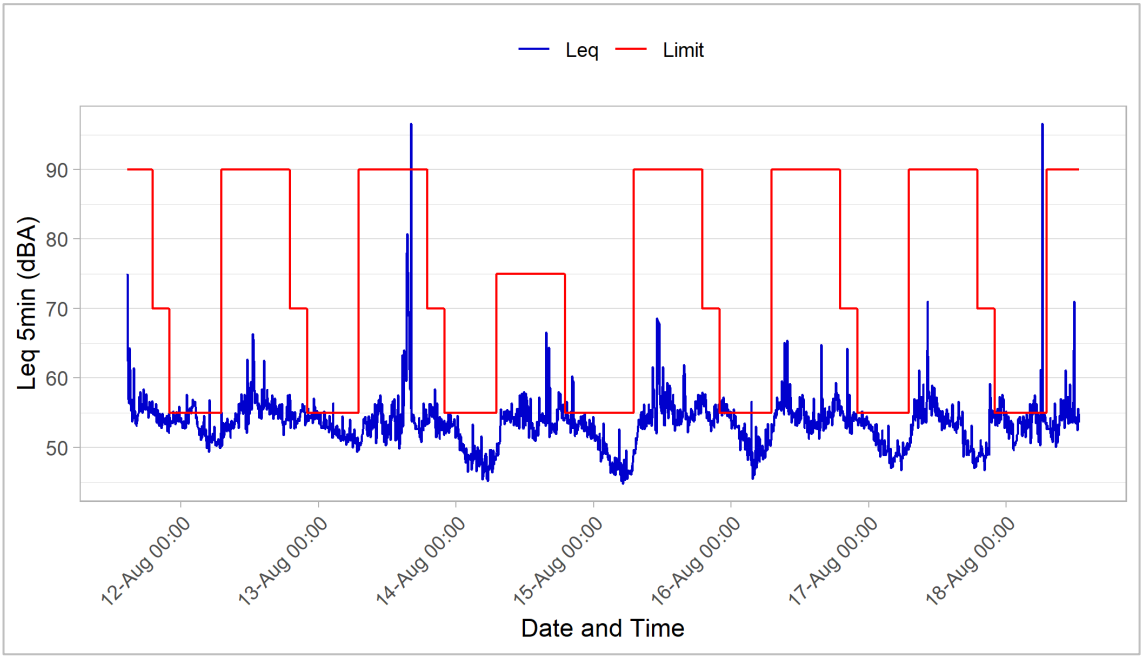


Figure 6.3 Baseline Leq 5 mins monitoring results at Station N1 over one-week period

Table 6-6 and Figure 6.4 show the baseline noise level monitored at Station N2, most of which fell within the noise limit of type (c). Most of the day-time noise levels complied with the noise limit. During night-time, there were a few occasions where noise levels exceeded the noise limit.

Table 6-6 Summary of the baseline Leq 5 mins noise monitoring results at Station N2

Date	Monitoring Period	Monitored Noise Level (dBA)			Type (c) Noise Limit Leq 5 mins (dB(A))
		Min. Leq 5 mins	Median Leq 5 mins	Max. Leq 5 mins	
Thu 11/08/2022	1pm-7pm	66.5	69.95	71.9	90
	7pm-7am[+1]	56	64.85	**75.6**	70
Fri 12/08/2022	7am-7pm	65.9	69.15	76.5	90
	7pm-7am[+1]	57	65.6	**78**	70
Sat 13/08/2022	7am-7pm	65.5	68.7	85.4	90
	7pm-7am[+1]	51.9	63.65	**80.4**	70
Sun 14/08/2022	7am-7pm	65.1	67.8	74.8	90
	7pm-7am[+1]	56.9	67.35	**73.5**	70
	7am-7pm	64.2	68.05	74.3	90

Date	Monitoring Period	Monitored Noise Level (dBA)			Type (c) Noise Limit Leq 5 mins (dB(A))
		Min. Leq 5 mins	Median Leq 5 mins	Max. Leq 5 mins	
Mon 15/08/2022	7pm-7am[+1]	53.8	62.8	**71.1**	70
Tue 16/08/2022	7am-7pm	65.2	68	76.1	90
	7pm-7am[+1]	54.4	63.3	**71**	70
Wed 17/08/2022	7am-7pm	64.2	67.5	70.8	90
	7pm-7am[+1]	53.6	62.85	**71.8**	70
Thu 18/08/2022	7am-1pm	65.4	68.8	77.3	90

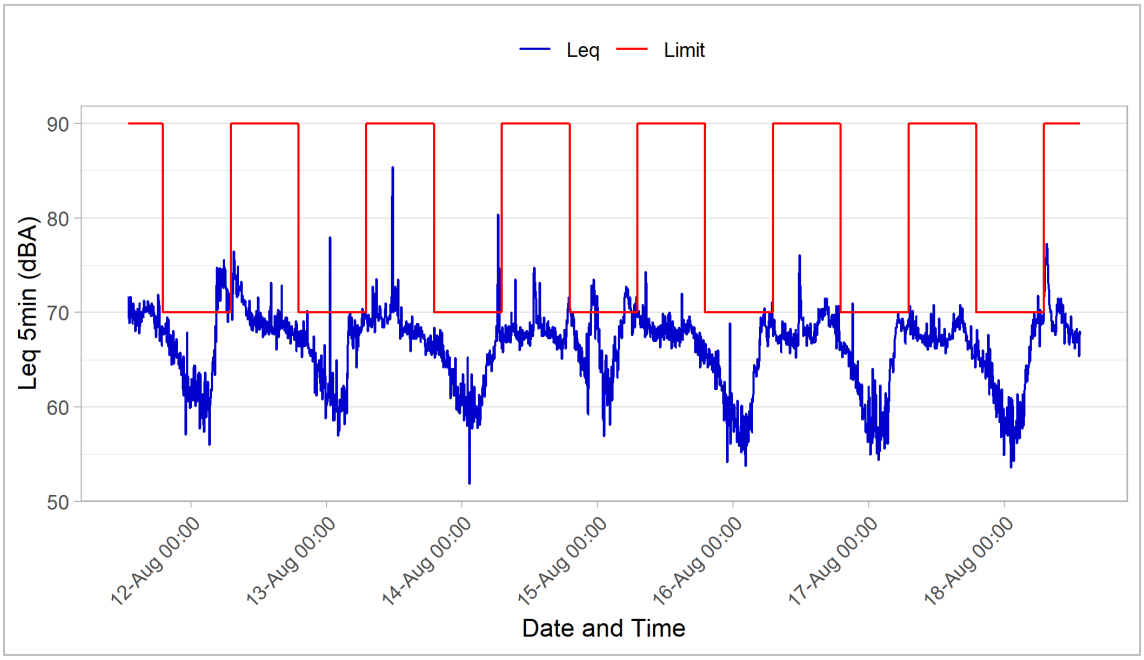


Figure 6.4 Baseline Leq 5 mins monitoring results at Station N2 over one-week period

Table 6-7 and Figure 6.5 show the baseline noise level monitored by Station N3, most of which fell within the noise limit of type (c). There were three nights where noise levels exceeded the limits slightly, by up to 4 dBA.

Table 6-7 Summary of the baseline Leq 5 mins noise monitoring results at Station N3

Date	Monitoring Period	Monitored Noise Level (dBA)			Type (c) Noise Limit Leq 5 mins (dB(A))
		Min. Leq 5 mins	Median Leq 5 mins	Max. Leq 5 mins	
Thu 11/08/2022	2pm-7pm	44.1	48.9	82	90
	7pm-7am[+1]	43.4	46.85	55.8	70
Fri 12/08/2022	2pm-7pm	42.6	47.75	68.1	90
	7pm-7am[+1]	44.3	48.2	65.8	70
Sat 13/08/2022	7am-7pm	43	49.3	60.3	90
	7pm-7am[+1]	44	47.2	**70.6**	70
Sun 14/08/2022	7am-7pm	43.7	49.95	73.6	90
	7pm-7am[+1]	45.4	51.85	**73.7**	70

Date	Monitoring Period	Monitored Noise Level (dBA)			Type (c) Noise Limit Leq 5 mins (dB(A))
		Min. Leq 5 mins	Median Leq 5 mins	Max. Leq 5 mins	
Mon 15/08/2022	7am-7pm	44.5	49.7	62.2	90
	7pm-7am[+1]	44.3	48.05	63.7	70
Tue 16/08/2022	7am-7pm	42.5	49.7	66.6	90
	7pm-7am[+1]	40.1	46.15	62.1	70
Wed 17/08/2022	7am-7pm	44.4	50.8	77.8	90
	7pm-7am[+1]	44	47.7	**72.5**	70
Thu 18/08/2022	7am-2pm	39.5	49.6	70.2	90

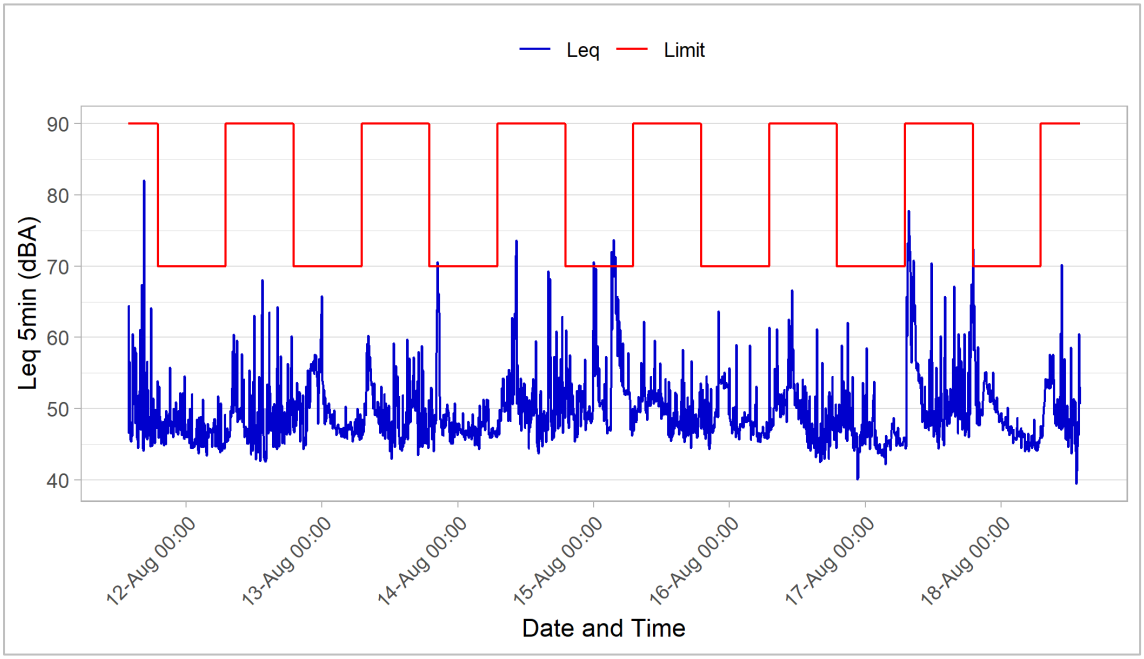


Figure 6.5 Baseline Leq 5 mins monitoring results at Station N3 over one-week period

Table 6-8 and Figure 6.6 show the baseline noise level monitored by Station N4. While the day-time noise level generally complied with the limit for type (b), there were some night-time levels (10 pm to 7 am on the next day) which exceeded the noise limit. These higher noise levels may be attributed to nearby residences along Miltonia Close. Nevertheless, their median levels were still within the applicable noise limit.

Table 6-8 Summary of the baseline Leq 5 mins noise monitoring results at Station N4

Date	Monitoring Period	Monitored Noise Level (dBA)			Type (b) Noise Limit Leq 5 mins (dB(A))
		Min. Leq 5 mins	Median Leq 5 mins	Max. Leq 5 mins	
Mon 08/08/2022	7am-7pm	48.2	56.75	69.5	90
	7pm-10pm	46.2	49.05	62.6	70
	10pm-7am[+1]	45.1	46.7	**63.2**	55
Tue 09/08/2022	7am-7pm	45.4	52.75	73.6	90
	7pm-10pm	47.1	53.3	67.6	70
	10pm-7am[+1]	45.5	50.35	**67.4**	55

Date	Monitoring Period	Monitored Noise Level (dBA)			Type (b) Noise Limit Leq 5 mins (dB(A))
		Min. Leq 5 mins	Median Leq 5 mins	Max. Leq 5 mins	
Wed 10/08/2022	7am-7pm	45.9	55.95	70.8	90
	7pm-10pm	45.3	49.95	59.6	70
	10pm-7am[+1]	44.8	46.1	**67.7**	55
Thu 11/08/2022	7am-7pm	45.8	55.1	71.4	90
	7pm-10pm	45.5	50.85	58.1	70
	10pm-7am[+1]	45.2	46.5	**65.5**	55
Fri 12/08/2022	7am-7pm	46.3	54.6	70.8	90
	7pm-10pm	45.8	48.4	62	70
	10pm-7am[+1]	44.8	46.2	**66.4**	55
Sat 13/08/2022	7am-7pm	47.2	55.5	70	90
	7pm-10pm	46.7	50.05	68.6	70
	10pm-7am[+1]	45.2	46.75	**63.6**	55
Sun 14/08/2022	7am-7pm	46.9	52.8	**81.2**	75
	7pm-7am[+1]	48.1	53.95	**65.8**	55
Mon 15/08/2022	7am-7pm	49	56.8	69.3	90

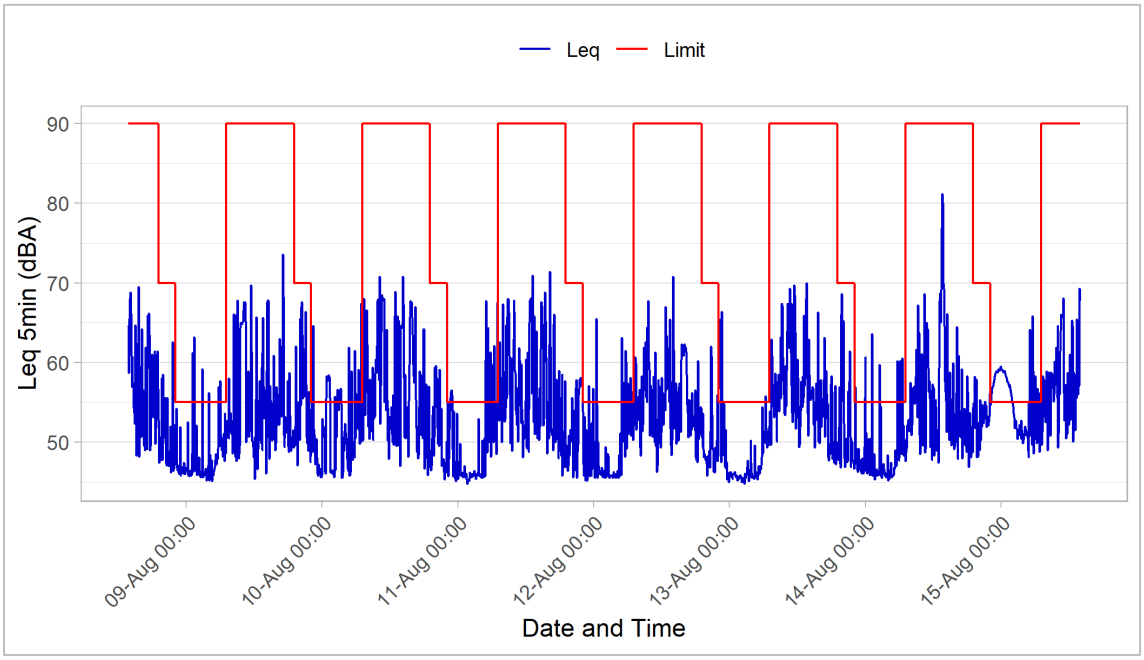


Figure 6.6 Baseline Leq 5 mins monitoring results at Station N4 over one-week period

6.5. Impact Assessment

6.5.1. Identification of Potential Impacts

The following activities are identified as potential sources of noise during the pre-construction, construction, and post-construction phases of the Miltonia development, the project site.

Pre-construction/Construction Phase

- Site clearing, earthworks, and general construction activities;
- Excavators for earth handling and tree-clearance;
- Generators for equipment and machinery
- Stockpiling and materials handling;
- Vehicle movements in and out of construction work areas;
- Use of high-impact stationary and mobile equipment such as pile drivers, mobile cranes, excavators, dozers, etc. leading to variable and sporadic noise levels, typically repeating over time;
- Shaft construction and Micro Tunnel Boring Machine (MTBM) during pipe jacking method;

Specifically, the potential sources of noise emission during the construction phase would mainly be attributed to the construction equipment such as:

- Excavators for earth handling and tree-clearance;
- Demolition activities;
- Pipe jacking machine, and Micro Tunnel Boring Machine (MTBM) during pipe jacking method; and
- Bored Piling rigs to be used to pre-bore the ground for installation of the piles; and
- Noise generated by construction personnel.

Post-construction Phase

- Increased human presence and activity; and
- Increased vehicular traffic within and around the area.

The purpose of this section is to verify the findings of the impact assessment from the recent EIS conducted by AECOM (2022). Should there be any changes based on updated project information, this report will justify the changes in assessment.

The table below presents the typical sound power levels of some construction equipment (Singapore Standard SS602, 2014).

Table 6-9 Typical sound power levels of construction equipment

Equipment Name	Typical A-weighted Sound Power Levels dB(A)
Rotary Bored Piling rig	112–124
Hydraulic Breaker	110–119
Crawler Crane (80 hp)	100–115
Lorry Crane (10 t)	118–120
Air Compressor (50 hp)	93–107
Compactor (300 hp)	117–124
Bulldozer (55hp)	101–108
Excavator (60 hp)	103–116
Vibro hammer	119–130
Dump Truck (20 t)	102–107
Air compressor (50 hp)	93–107
Water pump	99–105
Road Roller (10 t)	98–106
Generator (110 kVA)	108
Concrete pump	102–107
Concrete Mixer	89–93
Electric Drill	94
Welding set	96

The project site is inhabited by some fauna species (see Section 4) which may be sensitive to noise. Some of these species, particularly nocturnal species such as bats and frogs which rely on their hearing for movement, communication, and foraging, are likely to be impacted by increased noise levels. Chronic and frequent noise such as traffic noise interferes with animals' abilities to detect important sounds, whereas intermittent and unpredictable noise such as piling, honking from vehicles and machinery and shouting is often perceived as a threat (Francis & Barber, 2013) This can alter species' behaviour and impair their ability to forage and avoid predation, leading to decreased survivability.

The effects of noise on fauna are poorly understood since both stimuli and responses can vary.

6.6. Mitigation Measures

6.6.1. Pre-construction / Construction Phase

It is recommended to use noise barrier at the construction work boundary as part of mitigation strategy to reduce noise impacts. The noise barrier is considered to be implemented around the project area, along Yishun Avenue 1, along the boundary of Orchid Country Club, as well as the along the forested and grass patch areas next to the residential areas at Miltonia Close.along Yishun Avenue 1, Miltonia Close, and the Orchid Country Club. For the work boundary along the proposed nature park area excluding the section along Yishun Avenue 1, it is recommended that noise barriers (STC 20) of at least 4m height be installed during the earthworks phase, and 6m during all other construction phases.

This section aims to provide additional mitigation measures / best site practices to further reduce the excessive noise impacts from the project. The following recommendations

should be implemented during pre-construction and construction stage.

- For soil investigation works, to use acoustic enclosures on rig engines and install a silencer at the exhaust pipe of the engines throughout the drilling operations and to erect portable hoarding around drilling rigs.
- Heavy construction works within the project area are to be limited to daylight hours (8 am – 6 pm), including demobilisation. Should there be any nightworks, a Noise Management Plan (NMP) should be developed and submitted to NParks for approval.
- For piling work, to consider the use of quitter piling methods.
- Use of silent piler for sheet piling work where possible.
- To consider erection of temporary acoustic barriers around piling equipment. To consider use of a temporary barrier which will allow for relocation as the piling activity moves around site.
- Use hydraulic and electric tools in place of pneumatic equipment such as concrete breakers where possible.
- Acoustic enclosures to be considered for where necessary such as compressors, generators, drilling tools etc.
- Means of improving the sound reduction for any exhaust systems in bulldozers, dump trucks and excavators should be considered.
- All noise and acoustic barriers should be able to achieve at least 10dB(A) noise reduction from source noise levels.
- Construction personnel to be trained in noise-reduction behaviours such as reducing the drop height of materials. Daily toolbox briefings should include reminders on the need to implement noise-reduction behaviours.
- All construction personnel should be educated about sensitive ecological nature of work areas before commencing the work
- To communicate with sensitive receptors about the proposed construction works including the proposed working hours, and the expected level and duration of noise.
- Where alternatives are available, only equipment and vehicles that emit lower noise levels are to be used.
- Care shall be taken when loading or unloading vehicles, dismantling scaffolding or moving materials to reduce impact noise.
- Intermittently used vehicles and machinery are to be shut down between work periods or be throttled down to a minimum noise level emission.
- Where possible, vehicles and machinery known to emit high levels of noise in one direction are to be orientated away from sensitive receptors.
- Only well-maintained machineries should be operated on-site and should be serviced regularly during construction.
- Conduct noise level monitoring throughout all phases to ensure that the construction noise levels remain within acceptable limits.
- Maintain a complaints procedure to log and track response to complaints received from residents.
- Personnel are to wear appropriate Personal Protective Equipment (PPE) all the time while on the construction site.

Effective implementation of these mitigation measures should be able to reduce the noise impacts from project on sensitive receptors to acceptable levels.

6.6.2. Post-construction Phase

As the development will be designed as per applicable regulations and standards for noise limits, minimal impacts on noise are expected to be generated during the post-construction phase of the project and no additional mitigation measures are recommended.

6.6.3. Evaluation of Potential Impacts

Table 6-10 and Table 6-11 summarises the impacts with their corresponding impact significance before and after the implementation of mitigation measures, which are elaborated in the above section.

6.7. Residual Impacts

The residual impacts were evaluated using the same method as in the previous study (AECOM, 2022) with due consideration that the recommended mitigation measures are implemented by the Contractor. The residual impacts are likely to be in the band of negligible to moderate and considered acceptable.

Table 6-10 Impact assessment of the predicted construction noise with corresponding mitigation measures (Construction phase)

General description (AECOM p302-308)	Specific description (AECOM p302-308) [SLMs refer to those of AECOM's]	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p302-308)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p302-308)
Receptor:	**Ecological**							
Scenario 1: Clearance for construction area	Auditory Sensitivity: Priority 2 Nearest Sound Level Meter (SLM): N2 Max exceedance predicted: 21.4 db(A) Intensity **High** Consequence **Medium** Likelihood **Likely**	Likely X High	**Moderate**	**Moderate**	AECOM • Use powered mechanical equipment with lower noise levels to mitigate noise at the source • Extend wildlife shepherding to trapped fauna found in construction sites as they will be subjected to severe noise impacts • Noise barriers of up to 5m to be placed as close to the source or the receiver (without causing additional vegetation clearance beyond construction worksites) to mitigate noise impacts to ALARP • Install noise barrier (STC 20) of at least 4m height around work boundary of proposed nature park area (excluding the section along Yishun Avenue 1) during earthworks phase, and 6m during all other construction phases • Acoustic dampening of compressors and generators • Acoustic sheds for major hacking structures • Enclosure panels closed, engines not exposed, and manufacturer-installed silencers for engine exhausts to be installed and maintained for earth-moving plants • Acoustic enclosure of all pumps • Machines (such as trucks) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum • Only well-maintained construction plants should be utilized on-site, and construction plants should be	Likely X Very Low	**Moderate**	**Moderate** (Drop in overall predicted noise by 6.7 dB(A))
	Priority 3 Nearest SLM: N2 Max exceedance predicted: 21.4 db(A) Intensity **High** Consequence **Low** Likelihood **Likely**	Likely X High	**Moderate**	**Minor**		Likely X Medium	**Minor**	**Minor** (Drop in overall predicted noise by 6.7 dB(A))
	Priority 2 Nearest SLM: N3a Max exceedance predicted: 0.9 db(A) Intensity **Low** Consequence **Very low** Likelihood **Likely**	Likely X Low	**Minor**	**Minor**		Likely X Low	**Minor**	**Minor** (Drop in overall predicted noise by 0.3 dB(A))
	Priority 3 Nearest SLM: N3a Max exceedance predicted: 0.9 db(A) Intensity **Low** Consequence **Very low** Likelihood **Likely**	Likely X Low	**Minor**	**Minor**		Likely X Low	**Minor**	**Minor** (Drop in overall predicted noise by 6.7 dB(A))

General description (AECOM p302-308)	Specific description (AECOM p302-308) [SLMs refer to those of AECOM's]	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p302-308)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p302-308)
Scenario 2: Roadworks and foundation works	Priority 2 Nearest SLM: N2 Max exceedance predicted: 28.9 db(A) Intensity **High** Consequence **Medium** Likelihood **Likely**	Likely X High	**Moderate**	**Moderate**	serviced regularly during the entire construction period • The number of PMEs should be reduced as far as practicable when construction works are carried out at areas close to the noise sensitive receivers: Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction programme • Behavioural practices including no shouting, no loud stereos/ radios on site, no dropping of materials from height, no throwing of metal items should be ensured • Construction respite: Restrict high noise generating drilling activities only in continuous blocks, not exceeding 3 hours each, with a minimum respite period of one hour between each block, if possible • Periodic noise monitoring by an independent third party, to establish compliance with requirements and to advise on equipment causing concern, and additional potential mitigation measures • Night works, apart from advance works/ site clearance if approved by Agencies, will be prohibited after 6 pm to minimise noise disturbance to nocturnal animals • Plan the layout of the site by considering using materials and other large structural equipment as noise barriers • Construction plants known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby noise sensitive receptors • Material stockpiles and other structures will be effectively utilized, wherever practicable, in screening noise from on-site construction activities • All handheld percussive breakers and air compressors used on site will comply with local legislation and requirements	Likely X High	**Moderate**	**Moderate** (Drop in overall predicted noise by 5.5 dB(A))
	Priority 3 Nearest SLM: N2 Max exceedance predicted: 28.9 db(A) Intensity **High** Consequence **Low** Likelihood **Likely**	Likely X High	**Moderate**	**Minor**		Likely X Medium	**Minor**	**Minor** (Drop in overall predicted noise by 5.5 dB(A))
	Priority 2 Nearest SLM: N3a Max exceedance predicted: 13.8 db(A) Intensity **High** Consequence **Medium** Likelihood **Likely/Regular**	Likely X High	**Moderate**	**Moderate**		Likely X Low	**Moderate**	**Moderate** (Drop in overall predicted noise by 4.6 dB(A))
	Priority 3 Nearest SLM: N3a Max exceedance predicted: 13.8 db(A) Intensity **High** Consequence **Low** Likelihood **Likely**	Likely X High	**Moderate**	**Minor**		Likely X Very Low	**Minor**	**Minor** (Drop in overall predicted noise by 6.7 dB(A))

General description (AECOM p302-308)	Specific description (AECOM p302-308) [SLMs refer to those of AECOM's]	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p302-308)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p302-308)
					• Activities may be scheduled to minimize noise generated at certain areas during periods which may be particularly sensitive to noise • Works using machines or vehicles that generate noise should be prohibited in the night and the dawn • Appropriate hearing protectors should be used by personnel operation the plant or equipment, the hearing protector must attenuate the exposure of the user to sound pressure levels below 85dB (A). Signage to remind personnel to put on hearing protection will be put up at work areas that emit excessive noise. Choice of hearing protector such as ear plugs (for < 100 dB (A)), earmuffs (for 100 dB (A) to 120 dB (A), ear plugs and earmuffs (for > 120dB (A)) in various noise exposure level • Noise awareness briefing should be conducted regularly and highlighted the noise mitigation measures such as position of machinery, making use of portable noise barriers and dos and don'ts for use of machinery at night; and • If noise remains an issue even after implementation of recommended mitigation measures such as noise barriers, contractor should consider implementation of proprietary noise barriers of high noise reduction capabilities to further reduce noise to acceptable levels.			
Receptor:	**Human**							
Scenario 1: Clearance for	Priority 2 Nearest SLM: N1 Max exceedance predicted: - Intensity **Negligible** Consequence **Imperceptible** Likelihood **Possible**	Possible X Negligible	**Negligible**	**Negligible**	TAC • Personnel are to wear appropriate Personal Protective Equipment (PPE) at all times while on the construction site	Possible X Negligible	**Negligible**	**-**

General description (AECOM p302-308)	Specific description (AECOM p302-308) [SLMs refer to those of AECOM's]	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p302-308)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p302-308)
construction areas	Priority 3 Nearest SLM: N2 Max exceedance predicted: - Intensity **Negligible** Consequence **Imperceptible** Likelihood **Possible**	Possible X Negligible	**Negligible**	**Negligible**	• Quieter equipment and vehicles with low noise levels to be used • All noise and acoustic barriers to be able to achieve at least 10 dB(A) noise reduction from source noise levels • No night works (i.e., limit construction activities to 8 am – 6 pm), except in the case of work exigencies and planned nightwork, with the implementation of the NMP approved by NParks • To consider erection of temporary acoustic barriers around piling equipment • For piling work, to consider the use of quieter piling methods • Acoustic enclosures to be considered for compressors, generators, drilling tools etc. • Noise level monitoring throughout all phases to ensure that the construction noises remain within acceptable limits	Possible X Negligible	**Negligible**	-
	Priority 2 Nearest SLM: N3a Max exceedance predicted: - Intensity **Negligible** Consequence **Imperceptible** Likelihood **Possible**	Possible X Negligible	**Negligible**	**Negligible**		Possible X Negligible	**Negligible**	-
	Priority 2 Nearest SLM: N3b Max exceedance predicted: - Intensity **Negligible** Consequence **Imperceptible** Likelihood **Possible**	Possible X Negligible	**Negligible**	**Negligible**		Possible X Negligible	**Negligible**	-
	Priority 2 Nearest SLM: N3c Max exceedance predicted: - Intensity **Negligible** Consequence **Imperceptible** Likelihood **Possible**	Possible X Negligible	**Negligible**	**Negligible**		Possible X Negligible	**Negligible**	-
	Priority 1 Nearest SLM: N4a Max exceedance predicted: - Intensity **Negligible** Consequence **Very Low** Likelihood **Possible**	Possible X Negligible	**Minor** (higher receptor sensitivity)	**Negligible**		Possible X Negligible	**Negligible**	-
	Priority 2 Nearest SLM: N4a Max exceedance predicted: - Intensity **Negligible** Consequence **Imperceptible** Likelihood **Possible**	Possible X Negligible	**Negligible**	**Negligible**		Possible X Negligible	**Negligible**	-

General description (AECOM p302-308)	Specific description (AECOM p302-308) [SLMs refer to those of AECOM's]	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p302-308)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p302-308)
	Priority 2 Nearest SLM: N4b Max exceedance predicted: - Intensity **Negligible** Consequence **Imperceptible** Likelihood **Possible**	Possible X Negligible	**Negligible**	**Negligible**		Possible X Negligible	**Negligible**	-
	Priority 2 Nearest SLM: N4c Max exceedance predicted: - Intensity **Negligible** Consequence **Imperceptible** Likelihood **Possible**	Possible X Negligible	**Negligible**	**Negligible**		Possible X Negligible	**Negligible**	-
Scenario 2: Roadworks and foundation works	Priority 2 Nearest SLM: N1 Max exceedance predicted: 3.8 Intensity **Medium** Consequence **Low** Likelihood **Possible**	Possible X Medium	**Minor**	**Minor**		Possible X Medium	**Minor**	**Minor** (Drop in overall predicted noise by 0.6 dB(A))
	Priority 3 Nearest SLM: N2 Max exceedance predicted: - Intensity **Negligible** Consequence **Imperceptible** Likelihood **Possible**	Possible X Negligible	**Negligible**	**Negligible**		Possible X Negligible	**Negligible**	**Negligible**
	Priority 2 Nearest SLM: N3a Max exceedance predicted: - Intensity **Negligible** Consequence **Imperceptible** Likelihood **Possible**	Possible X Negligible	**Negligible**	**Negligible**		Possible X Negligible	**Negligible**	**Negligible**
	Priority 2 Nearest SLM: N3b Max exceedance predicted: - Intensity **Negligible** Consequence **Imperceptible** Likelihood **Possible**	Possible X Negligible	**Negligible**	**Negligible**		Possible X Negligible	**Negligible**	**Negligible**

General description (AECOM p302-308)	Specific description (AECOM p302-308) [SLMs refer to those of AECOM's]	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p302-308)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p302-308)
	Priority 2 Nearest SLM: N3c Max exceedance predicted: - Intensity **Negligible** Consequence **Imperceptible** Likelihood **Possible**	Possible X Negligible	**Negligible**	**Negligible**		Possible X Negligible	**Negligible**	**Negligible**
	Priority 1 Nearest SLM: N4a Max exceedance predicted: 6.1 Intensity **High** Consequence **High** Likelihood **Possible**	Possible X High	**Moderate**	**Moderate**		Possible X High	**Moderate**	**Moderate** (Drop in overall predicted noise by 1.8 dB(A))
	Priority 2 Nearest SLM: N4a Max exceedance predicted: - Intensity **Negligible** Consequence **Imperceptible** Likelihood **Possible**	Possible X Negligible	**Negligible**	**Negligible**		Possible X Negligible	**Negligible**	**Negligible**
	Priority 2 Nearest SLM: N4b Max exceedance predicted: - Intensity **Negligible** Consequence **Imperceptible** Likelihood **Possible**	Possible X Negligible	**Negligible**	**Negligible**		Possible X Negligible	**Negligible**	**Negligible**
	Priority 2 Nearest SLM: N4c Max exceedance predicted: 2.8 Intensity **Low** Consequence **Very low** Likelihood **Possible**	Possible X Low	**Minor**	**Minor**		Possible X Low	**Minor**	**Minor** (Drop in overall predicted noise by 0.3 dB(A))

Table 6-11. Impact assessment from post-construction noise with corresponding mitigation measures (post-construction phase)

General description (AECOM p315-317)	Specific description (AECOM page 315-317)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p315-317)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p328)
Receptor: Ecological								
Noise from Air conditioning and mechanical ventilation (ACMV) likely to persist throughout the day: Ecological receptors tend to avoid human presence, and only the Proposed Nursing Home occupies an area close to the proposed nature park area.	Priority 2 Intensity **Low** Consequence **Very low** Likelihood **Less likely/Rare**	Rare X Low	**Negligible**	**Negligible**	AECOM • Noise attenuators and other BAT and BEP noise control measures to be utilised • Ample setback of developments with ACMV systems fronting noise sensitive receptors should be provided such as provision of park areas/ ecological setback in line with recommendations for biodiversity impact mitigation in Section 7.8, to ensure that operational noise sources are at a distance away from the receptors.	Rare X Low	**Negligible**	**Negligible**
	Priority 3 Intensity **Low** Consequence **Very low** Likelihood **Less likely/Rare**	Rare X Low	**Negligible**	**Negligible**		Rare X Low	**Negligible**	**Negligible**
Land traffic noise expected to follow traffic trends: Introduction of vehicular noise permanently alters the land from an area previously undisturbed by anthropogenic noise to one with traffic noises	Priority 2 Intensity **High** Consequence **Medium** Likelihood **Possible**	Possible X High	**Moderate**	**Moderate**	AECOM • Noise attenuators and other BAT and BEP noise control measures to be utilised • Low-speed postings, speed humps and speed limit signages to be installed at drop-off points to lower traffic noise as vehicles would be cruising at lower speeds. • Consider alternative siting of roads away from areas with noise sensitive receptors. • Consider the provision of park areas/ ecological setback in between new road networks if in proximity to areas with NSRs.	Possible X Low	**Minor**	**Minor**
	Priority 3 Intensity **High** Consequence **Low** Likelihood **Possible**	Possible X High	**Minor**	**Minor**		Possible X High	**Minor**	**Minor**

General description (AECOM p315-317)	Specific description (AECOM page 315-317)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p315-317)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p328)
Receptor: Human								
<u>Air conditioning and mechanical ventilation (ACMV):</u> Noise arising from non-industrial buildings are largely negligible.	<u>Noise sensitive premises:</u> Intensity **Negligible** Consequence **Very low** Likelihood **Unlikely/Remote**	Unlikely X Negligible	**Negligible**	**Minor**	TAC • Utilise noise attenuators and other Best Available Technology (BAT) and Best Environmental Practice (BEP) to mitigate potential noise from air conditioning and mechanical ventilation (ACMV) systems • Provide ample setback for development with ACMV systems fronting noise sensitive receptors • Utilise low speed postings, speed humps, speed limit signages	Unlikely X Negligible	**Negligible**	**Minor**
	<u>Residential premises:</u> Intensity **Negligible** Consequence **Imperceptible** Likelihood **Unlikely/Remote**	Unlikely X Negligible	**Negligible**	**Negligible**		Unlikely X Negligible	**Negligible**	**Negligible**
<u>Land traffic noise impact:</u> With new developments, traffic is likely to increase and bring about noticeable increases in traffic noise	<u>Noise sensitive premises:</u> Intensity **Low** Consequence **Low** Likelihood **Likely/Regular**	Likely X Low	**Moderate**	**Moderate**		Likely X Very Low	**Minor**	**Minor**
	<u>Residential premises:</u> Intensity **Low** Consequence **Very low** Likelihood **Likely/Regular**	Likely X Low	**Moderate**	**Minor**		Likely X Very Low	**Negligible**	**Negligible**

7. AMBIENT AIR QUALITY

7.1. Introduction

The main air pollution in Singapore comes from stationary sources (e.g., power stations, industries, and refineries) and mobile sources (e.g., motor vehicles and visiting marine vessels). The NEA monitors air quality in Singapore and publishes the 24-hour Pollutant Standards Index (PSI) reading that provides an indication of air quality at any point of time.

Currently there is not any stationary source of air pollution in forested area within project study area. The nearest source of air pollution outside project study area includes movement of vehicles within the area and exhaust emissions from vehicular traffic along Yishun Ave 1 and Miltonia Close. The project study area's natural setting, and the presence of forested area contribute to the relatively good prevailing air quality of the area.

This Section describes the relevant standard for the ambient air quality that are applicable to the Project activities, the methodology and results for the baseline ambient air quality study. It also described potential air quality impacts from construction works, and recommendation for mitigation measures. A qualitative impact assessment approach is being used for assessment of impacts.

7.2. Relevant Environmental Legislation, Guidelines and Standards

Singapore ambient air quality targets are provided in Table 7-1.

Table 7-1 Applicable Singapore Ambient Air Quality Targets **(National Environment Agency, 2021)**

Pollutant	Long Term Targets
Particulate Matter (PM_{10})	24-hour mean: 50 µg/m^3 (WHO Final)
Particulate Matter ($PM_{2.5}$)	24-hour mean: 25µg/m^3 (WHO Final)
Sulphur Dioxide (SO_2)	24-hour mean: 20 µg/m^3 (WHO Final)
Carbon Monoxide (CO)	1-hour mean: 30 mg/m^3 (WHO Final); 8-hour mean: 10 mg/m^3
Nitrogen Dioxide (NO_2)	1-hour mean: 200 µg/m^3 (WHO Final)
Ozone (O_3)	8-hour mean: 100 µg/m^3 (WHO Final)

7.3. Baseline Methodology

7.3.1. Sensitive Receptors Identification

The Air Sensitive Receptor (ASR) potentially affected by the proposed project have been identified (Table 7-2) through a combination of desktop study and visual surveys at the study areas.

Table 7-2 List of identified air-sensitive receptors

ID	Type	Description	Approximate Distance*
ASR1	Workers	People working on the site (e.g.,	Within Study Area

		construction workers, consultants)	
ASR2	Flora and Fauna	Flora and fauna living within project study area	Within Study Area
ASR3	Sports & Recreation	Orchard Country Club	50m from Study Area
ASR4	Residential building	Residential buildings of Orchird Spring and Vista Spring	100m from Study Area
ASR5	Residential building	Residential buildings of Skies Miltonia and Miltonia Residences	100m from Study Area
ASR6	Institution of higher learning	XCL World Academy	130m from Study Area

*Approximate distance from the nearest project work area

7.3.2. Baseline Field Survey

The baseline ambient air quality monitoring was caried out at three (3) locations for a week (24 hours x 7 days). The monitoring locations were chosen based on the factors such as location of sensitive receptors, relevance to project activity, site access and equipment security. Six (6) parameters were monitored: Particulate Matters with diameters of less than 10 and 2.5 microns (PM_{10} and $PM_{2.5}$), Sulphur Dioxide (SO_2), Carbon Monoxide (CO), Nitrogen Dioxide (NO_2), and Ozone (O_3). The monitoring was conducted using the Oceanus OC-1000 Portable Multi Gas Detector. It is powered by rechargeable lithium battery with high capacity and equipped with an internal sampling pump fitted with six sensors to detect the gas composite concentration. The baseline data were recorded at 10-minute intervals, with their averages calculated and compared with respective values in the Singapore Ambient Air Quality Targets (NEA, 2021).

Table 7-3 lists down the coordinates of monitoring stations and short description of the location of each station. Figure 7.1shows the location map of monitoring stations and Figure 7.2 shows photographs of the on-site monitoring equipment. The baseline ambient air quality monitoring data are available as **Appendix H**.

Table 7-3 Location of ambient air quality monitoring stations

Station	Monitoring Period	Latitude	Longitude	Description of Location
A1	5 Aug – 12 Aug 2022	1.421657	103.853194	At the edge the forested area, next to the main body of Stream 1
A2	12 Aug – 19 Aug 2022	1.420285	103.850212	On the open grass patch next to Yishun Ave 1, ~50 m from the nearest residential building at Vista Spring
A3	19 Aug – 26 Aug 2022	1.419404	103.848014	Open grass field in the southwest side of project area, ~30 m from the nearest residential building at Skies Miltonia



Figure 7.1 Locations of baseline ambient air quality monitoring stations within project area



Figure 7.2 Pictures of the on-site baseline ambient air quality monitoring equipment

7.4. Baseline` Results and Discussion

The baseline air quality monitoring results generally complied with Singapore Ambient Air Quality Targets (NEA, 2021). The data is presented in the following sections.

7.4.1. Baseline Results at Station A1

Table 7-4 24-hour average of PM_{10}, $PM_{2.5}$, and SO_2 levels at Station A1

Monitoring Period	24-hour PM_{10} average ($\mu g/m^3$)	24-hour $PM_{2.5}$ average ($\mu g/m^3$)	24-hour SO_2 average ($\mu g/m^3$)
Friday, 12/8/2022	3.02	2.63	0.08
Saturday, 13/8/2022	1.51	0.90	0.07
Sunday, 14/8/2022	0.80	0.51	0.07
Monday, 15/8/2022	0.05	0.16	0.07
Tuesday, 16/8/2022	1.15	0.61	0.05
Wednesday, 17/8/2022	1.07	0.46	0.07
Thursday, 18/8/2022	0.00	0.00	0.07
Friday, 19/8/2022	0.00	0.00	0.08
2020 Target ($\mu g/m^3$)	**50.00**	**37.50**	**50.00**
Long Term Target ($\mu g/m^3$)	**50.00**	**25.00**	**20.00**

Table 7-5 8-hour and maximum daily hourly average of CO level at Station A1

Monitoring Period	Duration	8-hour CO average (mg/m^3)	Max. hourly CO average (mg/m^3)
Friday, 12/8/2022	08:00–16:00	0.52	0.92
	16:00–00:00	0.33	
Saturday, 13/8/2022	00:00–08:00	0.71	1.24
	08:00–16:00	0.54	
	16:00–00:00	0.69	
Sunday, 14/8/2022	00:00–08:00	0.79	1.23
	08:00–16:00	0.71	
	16:00–00:00	0.65	
Monday, 15/8/2022	00:00–08:00	0.77	1.26
	08:00–16:00	0.65	
	16:00–00:00	0.71	
Tuesday, 16/8/2022	00:00–08:00	0.64	1.28
	08:00–16:00	0.59	
	16:00–00:00	0.71	
Wednesday, 17/8/2022	00:00–08:00	0.80	1.26
	08:00–16:00	0.56	
	16:00–00:00	0.75	
Thursday, 18/8/2022	00:00–08:00	0.63	1.31
	08:00–16:00	0.60	
	16:00–00:00	0.82	
Friday, 19/8/2022	00:00–08:00	0.75	1.33
	08:00–16:00	0.76	
2020 Target (mg/m^3)		**10.00**	**30.00**

Table 7-6 8-hour average of O_3 and maximum daily hourly average of NO_2 at Station A1

Monitoring Period	Duration	8-hour O_3 average ($\mu g/m^3$)	Max. hourly NO_2 average ($\mu g/m^3$)
Friday, 12/8/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Saturday, 13/8/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Sunday, 14/8/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Monday, 15/8/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Tuesday, 16/8/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Wednesday, 17/8/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Thursday, 18/8/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Friday, 19/8/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
2020 Target ($\mu g/m^3$)		**100.00**	**200.00**

7.4.2. Baseline Results at Station A2

Table 7-7 24-hour average of PM_{10}, $PM_{2.5}$, and SO_2 levels at Station A2

Monitoring Period	24-hour PM_{10} average ($\mu g/m^3$)	24-hour $PM_{2.5}$ average ($\mu g/m^3$)	24-hour SO_2 average ($\mu g/m^3$)
Friday, 19/08/2022	28.18	25.38	0.05
Saturday, 20/08/2022	20.50	18.50	0.03
Sunday, 21/08/2022	19.96	18.27	0.03
Monday, 22/08/2022	13.20	11.49	0.03
Tuesday, 23/08/2022	20.05	18.57	0.04
Wednesday, 24/08/2022	17.53	15.85	0.05
Thursday, 25/08/2022	19.14	15.32	0.05
Friday, 26/08/2022	28.18	25.38	0.05
2020 Target ($\mu g/m^3$)	**50.00**	**37.50**	**50.00**
Long Term Target ($\mu g/m^3$)	**50.00**	**25.00**	**20.00**

Table 7-8 8-hour and maximum daily hourly average of CO level at Station A2

Monitoring Period	Duration	8-hour CO average (mg/m^3)	Max. hourly CO average (mg/m^3)
Friday, 19/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Saturday, 20/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Sunday, 21/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Monday, 22/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Tuesday, 23/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Wednesday, 24/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Thursday, 25/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Friday, 26/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
2020 Target (mg/m^3)		**10.00**	**30**

Table 7-9 8-hour average of O_3 and maximum daily hourly average of NO_2 at Station A2

Monitoring Period	Duration	8-hour O_3 average ($\mu g/m^3$)	Max. hourly NO_2 average ($\mu g/m^3$)
Friday, 19/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Saturday, 20/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Sunday, 21/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Monday, 22/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	

Monitoring Period	Duration	8-hour O_3 average ($\mu g/m^3$)	Max. hourly NO_2 average ($\mu g/m^3$)
	16:00–00:00	0.00	
Tuesday, 23/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Wednesday, 24/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Thursday, 25/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Friday, 26/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
2020 Target ($\mu g/m^3$)		**100.00**	**200.00**

7.4.3. Baseline Results at Station A3

Table 7-10 24-hour average of PM_{10}, $PM_{2.5}$, and SO_2 levels at Station A3

Monitoring Period	24-hour PM_{10} average ($\mu g/m^3$)	24-hour $PM_{2.5}$ average ($\mu g/m^3$)	24-hour SO_2 average ($\mu g/m^3$)
Friday, 05/08/2022	8.28	7.36	0.06
Saturday, 06/082022	10.96	9.86	0.09
Sunday, 07/08/2022	10.91	10.03	0.07
Monday, 08/082022	14.18	12.98	0.08
Tuesday, 09/08/2022	14.18	12.94	0.08
Wednesday, 10/08/2022	16.43	14.42	0.09
Thursday, 11/08/2022	15.38	13.87	0.10
Friday, 12/082022	14.35	12.65	0.08
2020 Target ($\mu g/m^3$)	**50.00**	**37.50**	**50.00**
Long Term Target ($\mu g/m^3$)	**50.00**	**25.00**	**20.00**

Table 7-11 8-hour and maximum daily hourly average of CO level at Station A3

Monitoring Period	Duration	8-hour CO average (mg/m^3)	Max. hourly CO average (mg/m^3)
Friday, 05/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Saturday, 06/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Sunday, 07/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Monday, 08/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Tuesday, 09/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Wednesday, 10/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Thursday, 11/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Friday, 12/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
2020 Target (mg/m^3)		**10.00**	**30.00**

Table 7-12 8-hour average of O_3 and maximum daily hourly average of NO_2 at Station A3

Monitoring Period	Duration	8-hour O_3 average ($\mu g/m^3$)	Max. hourly NO_2 average ($\mu g/m^3$)
Friday, 05/08/2022	00:00–08:00	0.00	0.15
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Saturday, 06/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Sunday, 07/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Monday, 08/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	

Monitoring Period	Duration	8-hour O_3 average ($\mu g/m^3$)	Max. hourly NO_2 average ($\mu g/m^3$)
Tuesday, 09/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Wednesday, 10/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Thursday, 11/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
Friday, 12/08/2022	00:00–08:00	0.00	0.00
	08:00–16:00	0.00	
	16:00–00:00	0.00	
2020 Target ($\mu g/m^3$)		**100.00**	**200.00**

7.5. Impact Assessment

7.5.1. Identification of Potential Impacts

Pre-construction / Construction Phase

Project activities in the site include vegetation clearance, earthworks, construction of drains, sewers and sumps as well as temporary shafts, and other related activities.

Based on these activities, the following potential impacts on ambient air quality are identified:

Fugitive Dust Emissions from Construction Works

The following construction works are expected to create dust emission:

- Site clearance
- Soil investigation work
- Soil filling and earthworks for the platform level
- Temporary stacking of excavated soil within project site
- Erection of temporary (e.g., site office) structures
- Bored piling work
- Earthworks for pile cap
- Backfill, soil mixing and compaction
- Cutting and grinding work for pile head
- Construction of the new buildings and infrastructures
- Vehicle movements on access roads

Fugitive dust emissions from construction activities are unavoidable to be generated during soil excavation, backfilling activities, and vehicle movement within the project site on unpaved surfaces. These fugitive dust emissions are expected to have a moderate and direct impact on local air quality and affect air sensitive receptor located near dust generating construction activities (i.e., construction workers).

The impact duration of fugitive emissions of construction dust is anticipated to be short-term and expected to vary significantly from day to day depending upon the duration of dust-generating construction activities within project site. Actual fugitive dust emissions concentrations from construction site will depend on effectiveness of control measures, length of operation, and ambient weather condition (e.g., rainfall, wind speed, and wind direction). Extent of fugitive emissions is considered to be local, within the project as forested area around project study area will act as barrier for further dispersion. Also, the impacts are reversible when dust-generating construction activities stop.

Additionally, deteriorated ambient air quality also has negative impacts on biodiversity. For example, particulate matter settling on leaves may cause leaf injury thought abrasion or chemical interactions. Dust particles entering stomata may also reduce photosynthetic functions. Dust landing directly on soil may affect nutrient cycling processes (Grantz, Garner, & Johnson, 2003).

The existing literature on the effect of construction dust on birds in particular is limited, with most studies examining effects of air pollution on wildlife in general, rather than the effect of construction dust on birds specifically. Since the avian respiratory system, unlike the mammalian respiratory system, is characterized by unidirectional airflow and cross-current gas exchange, this makes them more susceptible to high concentrations of pollutants in the air. Studies have shown that birds exposed to urban air pollution may exhibit a build-up of cellular and mineral debris leading to characteristic conditions of pneumonia (Sanderfoot & Holloway, 2017).

Hence, fugitive dust emissions impact is considered to be unavoidable, of local importance, having a local geographic extent, short term duration, reversible and with minor impact magnitude.

Exhaust Emissions from Construction Machinery and Heavy Vehicles

Project activities are anticipated to use fuel-burning (i.e., mainly diesel) machinery such as piling rig, road roller machine, generator sets, mobile cranes, and other heavy vehicles such as grader, dozer, excavator, front-end loader, and haul truck that may cause exhaust emission. These exhaust emissions can cause direct and negative effects on local air quality by potentially increasing the concentrations of CO, NO_2, SO_2, O_3, PM_{10} and $PM_{2.5}$. This could cause the local air quality to deteriorate.

The impact is expected to be short-term depending on the duration of operation of machinery and heavy vehicles. The geographical extent of exhaust emissions is considered to be local, within the project site, even its dispersion will be affected by a number of factors such as ambient weather and wind direction. Ambient air quality impacts due to exhaust emissions of fuel burning machinery and vehicles are reversible when they stop operating.

Odour Emissions

During construction works, it is anticipated that odours generated at project site would be minimal. The potential impact is anticipated to be short term, indirect and insignificant as it would be assumed to be managed by suitable waste management mitigation

measures discussed in Chapter 10.

Overall, potential air quality impacts on ASR are expected to be of slight negative nature, direct, and local. Duration is anticipated to be short term and reversible as the impact will cease upon completion of the air pollution generating construction activities. As such, mitigation measures are recommended to further reduce the potential impacts.

Post-Construction Phase

No impacts on ambient air quality are expected to be generated during post-construction phase of site of the project. Nonetheless, it is important to note that this EIA is meant to address impacts from the earthworks and infrastructure works phase of the development and is not meant to address the building phase of the development. Upon the completion of this project, building works for the upcoming residential developments are likely to commence. TAC recommends that the impacts from the building phase of this project are to be assessed separately.

7.5.2. Evaluation of Potential Impacts

Table 7-13 and Table 7-14 summarises the impacts covering the project area with their corresponding impact significances before and after the implementation of mitigation measures, which are elaborated in the following section

7.6. Mitigation Measures

7.6.1. Pre-construction / Construction Phase

The combined mitigation measures are proposed covering the study area:

For site dust control, the contractor shall prepare and implement the dust control plan covering following dust suppression measures:

- Use of hoarding at project boundary within work areas to minimise dust generation by attenuating wind forces.
- To avoid stockpiles of soil and dusty materials at project site within work areas as far as possible.
- If unavoidable, stockpiles of soil should be located away as far as possible from sensitive receptors (i.e., adjacent flora and fauna as well as residential areas located along Yishun Ave 1 and Miltonia Close).
- Provide additional dust screen at project boundary near sensitive receptors (i.e., flora and fauna as well as residential areas located along Yishun Ave 1 and Miltonia Close).
- Any soil or stockpiles of dusty material should be properly stored, covered entirely with impervious sheeting or dampened with water to maintain entire surface wet by contractor.
- Soil stockpiles shall not be higher than 0.6 times the nearest hoarding height.
- Excavations should be backfilled or reinstated as soon as practicable following completion of the construction work.
- Material transport of inert solids (excavated materials) should be enclosed using

impervious sheeting, minimising the visual dust impacts as well.

- Use of regular watering to reduce dust emissions from exposed site surfaces, particularly during dry weather on open areas.
- Open burning of construction and other wastes are not allowed at the worksite as this is an offence under the Environmental Pollution Control regulation.
- Personal protective equipment such as mask shall be worn during the severe air pollution and/or dust exposure periods by construction personnel.
- Avoid soil disturbing works during dry and/or windy conditions.
- Stabilize/cover all stockpiled materials for longer than one month by turfing, erosion blanketing or other method.
- Vehicle on-site speed restrictions should be imposed to prevent dust being stirred up by vehicle movements.

Other mitigation measures that need to be taken by the contractor include:

- Provide vehicle washing facilities before the construction site exit.
- Pave the area between construction site exit and the vehicle washing facilities.
- Maintain road surface in the construction site wet (e.g., using sprinkler).
- Proper maintenance of construction vehicles and fuel burning equipment.
- Intermittently used vehicles and machinery are to be shut down between work periods to minimum exhaust emission.

The recommended measures above, when implemented effectively, shall mitigate the potential impacts on the ambient air quality of the site to acceptable levels.

7.6.2. Post-construction Phase

No impacts on ambient air quality are expected to be generated during post-construction phase of the project. Hence, no further recommendations for air quality are given.

7.7. Residual Impacts

The residual impacts were evaluated using the same method as in the previous study (AECOM, 2022) in Table 7-13 and Table 7-14 with due consideration that the recommended mitigation measures are implemented by the Contractor. The residual impacts are likely to be in the band of negligible to minor and considered acceptable.

Table 7-13 Impact assessment on site's ambient air quality with corresponding mitigation measures (Construction phase)

General description (AECOM p250)	Specific description (AECOM p250)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p257-259)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p261)
<u>Earthworks</u> Dust from construction sites deposited on vegetation can reduce photosynthesis, respiration, transpiration, and allow phytotoxic gaseous pollutants to penetrate. Dust can also leech chemicals into the soil. Deposition of concrete dust can increase surface alkalinity, which can hydrolyse lipids and wax components, penetrate the cuticle, and denature proteins, causing leaves to wilt.	<u>Priority 1</u> Site area: > 10,000 m^2 Vehicles in site: 5-10 Material moved: 20,000-100,000 tonnes Intensity **High** Consequence **High** Likelihood **Likely /Regular** **Receptor: Ecological**	Likely X High	**Major**	**Major**	AECOM • Closed turfing to the exposed areas where possible and maintain proper storage of soil stockpiles to stabilise surfaces as soon as practicable. When a particular work is finished in an area, the soil will need to be reinstated upon completion • Use Hessian, mulches, or soil tackifiers where it is not possible to re-vegetate or cover with topsoil, as soon as practicable. Soil erosion blankets may also be used as an alternative. • Only remove the cover in intended working areas TAC • To implement dust suppression plan • Use of hoarding at project boundary to minimise dust generation by attenuating wind forces. • Install hard surfaced haul routes • Only use cutting, grinding and sawing equipment with dust suppression water spray mechanisms • Erect hoarding around dusty activities and site boundary of minimum 1.8m height (following BCA guideline) • Impose and signpost maximum speed-limit of 25 km/hr on paved roads and 15km/hr on unpaved roads and work areas • No burning of waste on site • Revegetate earthworks and exposed areas / soil stockpiles	Possible X Low	**Minor**	**Minor**
	<u>Priority 1</u> Intensity **High** Consequence **High** Likelihood **Likely/Regular** **Receptor: Human**	Likely X High	**Major**	**Major**		Possible X Low	**Minor**	**Minor**

General description (AECOM p250)	Specific description (AECOM p250)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p257-259)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p261)
<u>Construction</u> Building volume: 25,000-100,000 m^3 Construction material: potentially dusty, e.g., concrete On-site concrete batching plants: 0	<u>Priority 1</u> Intensity **Medium** Consequence **Medium** Likelihood **Likely/Regular** **Receptor: Ecological**	Likely X Medium	**Moderate**	**Moderate**	AECOM • Avoid scabbling if possible • Ensure sand and other aggregates are stored in bunded areas and are not allowed to dry out, unless this is required for a particular process • Ensure bulk cement and other fine powder materials are delivered in enclosed tankers and stored in silos with suitable emission control systems • For smaller supplies of fine power materials, ensure bags are sealed after use and stored appropriately TAC • To implement dust suppression plan • Stockpiles of dusty material should be properly stored, covered entirely with impervious sheeting • Use of regular watering to reduce dust emissions from exposed site surface • Provide dust screen at project boundary near residential community	Likely X Very Low	**Minor**	**Minor**
	<u>Priority 1</u> Intensity **Medium** Consequence **Medium** Likelihood **Likely/Regular** **Receptor: Human**	Likely X Medium	**Moderate**	**Moderate**		Possible X Low	**Minor**	**Minor**
<u>Trackout</u>	<u>Priority 2</u> Outward truck movements per day: 10-50 Road surface material: Less to moderately dusty Unpaved road length: 0m Intensity **Medium** Consequence **Low**	Likely X Medium	**Moderate**	**Moderate**	AECOM • Use water-assisted dust sweeper(s) on the access and affected local roads, to remove, as necessary, any material tracked out of the site. • Avoid dry sweeping of large areas. • Ensure vehicles entering and leaving sites are covered	Possible X Medium	**Minor**	**Minor**

General description (AECOM p250)	Specific description (AECOM p250)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p257-259)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM p261)
	Likelihood **Likely/Regular** **Receptor: Ecological**				• Inspect on-site haul routes for integrity and instigate necessary repairs to the surface as soon as reasonably practicable • Record all inspections of haul routes and any subsequent action in a site log book			
	<u>Priority 1</u> Intensity **Medium** Consequence **Medium** Likelihood **Likely/Regular** **Receptor: Human**	Likely X Medium	**Moderate**	**Moderate**	• Install hard surfaced haul routes, which are regularly damped down with fixed or mobile sprinkler systems, or mobile water bowsers and regularly cleaned • Implement a wheel washing system (with rumble grids to dislodge accumulated dust and mud prior to leaving the site where reasonably practicable) • Ensure there is an adequate area of hard surfaced road between the wheel wash facility and the site exit, wherever site size and layout permits • Site access gates to be located at least 10 m from receptors where possible	Possible X Low	**Minor**	**Minor**
<u>Gaseous emissions from construction equipment, vehicle, and off-road diesel exhaust</u> Emissions occur throughout the site, but impacts are usually localised within the worksite and are short-term (only during equipment operation)	<u>Priority 1</u> Intensity **Low** Consequence **Low** Likelihood **Likely/Regular** **Receptor: Ecological**	Likely X Low	**Moderate**	**Moderate**	AECOM • Carry out regular site inspections to monitor and record compliance with the Air Pollution Control Plan • Plan site layout so that machinery and dust causing activities are located away from receptors, where possible. • Use enclosed chutes and conveyors and covered skips wherever possible. TAC • Proper maintenance of construction vehicles and fuel burning equipment • Intermittently-used vehicles and machinery are to be shut down between work periods	Possible X Low	**Minor**	**Minor**
	<u>Priority 1</u> Intensity **Low** Consequence **Low** Likelihood **Likely/Regular** **Receptor: Human**	Likely X Low	**Moderate**	**Moderate**		Possible X Low	**Minor**	**Minor**

Table 7-14 Impact assessment on site's ambient air quality (post-construction phase)

General description (AECOM p255-256)	Specific description (AECOM p255-256)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM p255-256)	Mitigation measures (AECOM & TAC)
Receptor: Ecological					
NO_X : Phytotoxic if it enters stomata directly but can also enrich the soil through nitrogen fixing. It can also cause soil and water to become more acidic.		Unlikely X Low	**Negligible**	**Not assessed**	None, as impacts are minor
SO_2: might impact lichens and mosses, which can be mitigated with the use of low-sulphur fuel in generators					
CO: No known specific impact					
Receptor: Human					
NO_X: Increases respiratory infection risk and impairs lung function in asthmatics	Considering the implementation of Euro emission standards on new vehicles, current large base traffic volume along existing roads, 60-80% decrease over distance from existing roads, and retained proposed nature park area within the Project Site acting as a buffer, pollutant levels are expected to increase in insignificantly Priority 1 Intensity **Negligible** Consequence **Very Low** Likelihood **Regular** Priority 3 Intensity **Negligible** Consequence imperceptible Likelihood **Regular**	Possible X Negligible	**Minor**	**Minor**	None, as impacts are minor
CO: Deprives body tissues of oxygen, causes nausea, impairs vigilance					
PM2.5: Decreased lung function, increased respiratory symptoms and heart attacks					
PM10: Respiratory impairment, aggravate existing respiratory/cardiovascular disease					

8. GROUND-BORNE VIBRATION

8.1. Introduction

This Section describes the relevant standards for the ground-borne vibration that are applicable to the Project activities, the methodology and results for the baseline ground vibration study. It also described potential ground vibration impacts from construction works, and recommendations for ground vibration mitigation measures. A qualitative impact assessment approach is being used for assessment of impacts.

8.2. Relevant Environmental Legislation, Guidelines and Standards

As there are no specific laws and standard in Singapore presently that describe the assessment criteria for ground vibration, the following international standards are used as reference for ground vibration assessment criteria associated with human annoyance.

1. BS 5228-2 Code of Practice for Noise and Vibration Control on Construction and Open Sites.
2. United States Federal Transit Authority (FTA) Transit Noise and Vibration Impact Assessment Manual.

The baseline ground vibration data obtained are compared with the ground-borne vibration limits stated in the BS 5228-2 Code of Practice for Noise and Vibration Control on Construction and Open Sites (Table 8-1).

Table 8-1 BS 5228 Part 2 Guidance on Human Response to Vibration Levels

No.	Vibration Level	Effect	Description
1	0.14 mm/s	Threshold of Perception	Vibration might be just perceptible in the most sensitive situations for most vibration frequencies associated with construction. At lower frequencies, people are less sensitive to vibration.
2	0.3 mm/s	Just Perceptible	Vibration might be just perceptible in residential environment.
3	1.0 mm/s	Likely Complaint	It is likely that vibration of this level in residential environments will cause complaint, but can be tolerated if warning and explanation is given to residents
4	10 mm/s	Likely Intolerable	Vibration is likely to be intolerable for any more than a brief exposure at this level

According to BS 5228-2, human beings are known to be very sensitive to vibration, the threshold of perception being typically in the PPV range of 0.14 mm·s−1 to 0.3 mm·s−1. Vibrations above these values can disturb, startle, cause annoyance or interfere with work activities. At higher levels they can be described as unpleasant or even painful. In residential accommodation, vibrations can promote anxiety lest some structural mishap might occur.

8.3. Baseline Methodology

8.3.1. Sensitive Receptors Identification

The sensitive receptor identification criteria are based on the United States Federal Transit Authority (FTA) Transit Noise and Vibration Impact Assessment Manual (FTA, 2018). The criteria are listed below:

- Category 1 (High Sensitivity) covers manufacturing as well as vibration-sensitive research, hospitals with vibration-sensitive equipment, and university research operations.
- Category 2 (Residential) covers residential land uses and any buildings where people sleep, such as hotels and hospitals.
- Category 3 (Institutional) covers institutional land uses with primarily daytime use e.g., schools, churches, other institutions, and quiet offices that do not have vibration-sensitive equipment, but still have the potential for activity interference.
- Special Buildings: This category includes concert halls, TV studios, recording studios, auditoriums, and theatres.

The Vibration Sensitive Receptors (VSRs) potentially affected by the proposed project have been identified (Table 8-2) through a combination of desktop study and visual surveys at the study areas.

Table 8-2 List of identified vibration sensitive receptor

Type	Description	Approximate Distance*
Workers	People working on the site (e.g., construction workers, consultants)	Within Study Area
Flora and Fauna	Flora and fauna living within project study area	Within Study Area
Residential building	Residential buildings of Vista Spring @Yishun	60m from Study Area
Residential building	Residential buildings of Skies Miltonia	90m from Study Area
Recreation	Orchid Country Club	100m from Study Area

*Approximate distance from the nearest project work area

The impacts of anthropogenic-derived vibration on fauna are poorly understood. However, some animals, particularly amphibians, are sensitive to vibrations, as increased vibrations may affect their ability to communicate, and may reduce their reproductive success (Caorsi, et al., 2019).

8.3.2. Baseline Field Survey

The ground-borne vibration level monitoring was conducted for approximately one day (24 hours) to generate baseline condition. The monitoring locations were chosen based on factors such as presence of sensitive receptors, relevance to project activity, site access, and equipment security. Ground-borne vibration level was monitored using one (1) unit of Rion VM-56., where one measurement was recorded every minute. The

monitoring locations are described in.

Table 8-3 Location of vibration monitoring stations

Station	Monitoring Period	Latitude	Longitude	Description of Location
V1	15/8/2022, 15:38 to 16/8/2022, 05:37	1.423599	103.852073	Open area next to the hoarding located north of the study area
V2	11/8/2022, 10:47 to 12/8/2022, 11:35	1.421311	103.853004	Forest edge located at the east of the study area, just next to Orchid Country club
V3	12/8/2022, 13:42 to 13/8/2022, 14:30	1.420453	103.850089	Open field next to Yishun Ave 1, located around 100m from Orchid Spring @ Yishun
V4	8/8/2022, 14:39 to 11/8/2022, 10:21	1.418133	103.848613	At the pavement beside the hoarding, next to the Miltonia Close Road

Figure 8.1 shows photographs of the on-site monitoring equipment setup and Figure 8.2 shows the location map of monitoring stations. The baseline vibration monitoring report is available as **Appendix I**.



Figure 8.1 Locations of ambient vibration monitoring stations within project area



Figure 8.2 Pictures of the on-site baseline ground-borne vibration monitoring equipment

8.4. Baseline Results and Discussion

Table 8-4 summarises the baseline vibration levels recorded at the project site.

Table 8-4 Baseline ground-borne vibration level at the project site

Station	90th Percentile (mm/s)	99th Percentile (mm/s)	Maximum (mm/s)	Date & Time of Maximum Level Recorded
V1	0.19	0.35	57.30	15/8/2022 5:51 pm
V2	0.06	0.16	6.24	12/8/2022 11:35 am
V3	0.22	0.34	0.51	13/8/2022 9:54 am
V4	0.06	0.09	25.5	11/8/2022 9:40 am

In general, 99% of the baseline ground-borne vibration levels remained in the category slightly above “just perceptible” (0.3 mm/s) or lower. There were a few outliers of high vibration levels. These high levels might be attributed to heavy vehicular traffic along Yishun Avenue 1, human traffic or feral dogs in the area.

8.5. Impact Assessment

8.5.1. Identification of Potential Impacts

Pre-construction / Construction Phase

Construction activities can result in ground-borne vibration, depending on the various type of construction methods and equipment employed. Use of construction equipment could cause ground-borne vibration which spread through the ground and diminish in strength with distance. The ground vibrations generated during construction may create annoyance to people and detrimentally effect structures and sensitive devices. The focus on this vibration impact assessment during construction phase is on human annoyance.

The preliminary construction approach that would be used for this project is given in Chapter 2. The detailed information on the construction methodologies, specific equipment that will be used at each construction stage and their approximate quantity are not available at the time of this report preparation.

Main sources of ground vibration emissions during construction works at the project site are:

- Vibro hammer for installing and removing sheet piles (temporary retaining walls)
- Bored piling rigs to be used to pre-bore the ground for casting of the piles
- Excavators for earth handling and tree-clearance
- Shaft construction and Micro Tunnel Boring Machine (MTBM) during pipe jacking method

There are currently no Singapore standards that provide methodology to predict levels of ground vibration from construction activities. As such, to control the impact of vibration during site activities, limits relating to the perceptibility of vibration are typically used (see Section 8.2). BS 5228-2 provides the distances (based on historical field measurements) as which certain activities could give rise to a just perceptible level of ground vibration. These distances are provided in Table 8-5.

Table 8-5 Perceptible vibration levels as per BS 5228-2

Construction Activities	Distance from Activity when Ground Vibration May Just be Perceptible (m)
Heavy vehicles	5 - 10
Rotary bored pilling	20 - 30
Vibro hammer	25 – 35
Driven sheet piling	30 – 35

The construction activities will be within project site, it is likely that any vibration impacts

generated will be experienced by the nearest VSRs (i.e., workers and flora and fauna within Miltonia area) which are within the project area boundary.

The closest distance between project worksite and nearest human related VSRs (i.e., onsite workers) is within the project site. As the work activities would employ pipe jacking method, only the equipment used at ground level (e.g., mobile crane, excavator) were considered as potential vibration sources. Considering the limited extent of ground activities to be carried out for shaft construction, the potential impacts from these sources are considered short term and reversible as the impact should cease upon termination of the sources or completion of the construction. Other construction activities such as vehicle movements, soil compaction, lifting using mobile cranes are unlikely to generate significant ground-vibration.

As for human related VSRs located outside the project site (e.g., residents), they are located approximately at least 60 m away from the project boundary. This is further than the perceptible distance reported in Table 8-5.

Therefore, it is anticipated that human VSRs would not encounter vibration effect above the perceptible level for construction works and are unlikely to be affected. However, it is recognized that the work activities are in close proximity of VSR3 – VSR 4 (i.e. residential buildings) and VSR5 (i.e. recreation) hence Contractor shall implement recommended vibration mitigation measures/best practices for these worksites to minimise the vibration impacts.

There is no extensive research done on how vibration emissions affect fauna. However, it is understood that vibration from anthropogenic sources affects the ability of some fauna, including frogs, to communicate (Caorsi, et al., 2019). Hence, fauna located within the retained forest area may be affected when construction vibration sources are located near the boundary of the retained area.

It is to be noted that vibration within the project site is likely a result of vehicular traffic along Yishun Avenue 1 and Miltonia Close. As recommended in Chapter 4, heavy construction activities are to be restricted to daytime. It is anticipated that lower vibration generating construction methods (use of bored piling & silent piler and pipe jacking method) will be used, which will reduce much of the major impacts from vibration to sensitive receptors.

Overall, potential vibration impacts on VSR are expected to be of slight negative nature, direct, and local. Duration is anticipated to be short term and reversible as the impact will cease upon completion of the vibration generating construction activities. Further, this impact is to be managed through the mitigation measures/best practices recommended in next section.

Post-construction Phase

No major impact on ground-borne vibration is expected to be generated during post-construction phase of the project as the piling and foundation activities associated with the development works will have been completed. However, there might be some levels

of vibration from increases in human activity.

8.5.2. Evaluation of Impacts

Table 8-6 summarises the impacts covering of all three areas with their corresponding impact significances before and after the implementation of mitigation measures, which are elaborated in the following section.

8.6. Mitigation Measures

Pre-construction / Construction Phase

The following mitigation measures / best practices are recommended to manage the impact to fauna surrounding project work areas. The Contractor shall be responsible to implement these measures.

- Construction works involving the use of heavy equipment should be restricted to daytime only (i.e., 8 am – 6 pm).
- Contractors shall be responsible to comply all applicable regulatory and authority requirements and recommendation in this EIA report on ground-borne vibration.
- Vibrating equipment (e.g., pipe jacking unit) to be placed on isolators such as spring coils.
- Use of equipment or method which generate lower vibration levels, where possible. Examples: use of silent piler instead of vibro hammer, use only low-vibration mode for vibratory compactors.
- The drilling rig engine to be switched off when not in use to reduce vibration.
- Route heavily loaded trucks away from the VSRs as far away as possible.
- To plan and phase excavation, earthmoving, and ground pilling activities in staggered manner where possible to minimize cumulative impact.
- Control speed of vehicle movement at the worksite to 10 km/hour.
- Notify nearby VSRs (e.g., residential buildings) in advance of the construction activities, particularly during pipe jacking works to allay potential concerns.
- To develop the vibration monitoring plan in consultation with Qualified Person (QP) and to monitor the vibration levels throughout construction period.
- Utilize a vibratory compactor that can adjust the impulse energy and frequency, compact soil with static method (no vibrations).
- Keep haul roads within project work site in good condition to provide a smooth traveling surface.

Post-construction Phase

As there are unlikely to be major vibration-generating activities conducted in the operation phase of the project, no additional measures are suggested.

8.7. Residual Impacts

The residual impacts were evaluated using the same method as in the previous study (AECOM, 2022) in Table 8-6 with due consideration that the recommended mitigation measures are implemented by the Contractor. The residual impacts are likely to be in

the band of minor and considered acceptable.

Table 8-6 Impact assessment on ground-borne vibration with corresponding mitigation measures

General description (TAC)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM)
Ecological: Priority 1 Disturbances to the fauna due to vibration from construction activities	Likely X Medium	**Moderate**	**Impact added by TAC**	• Use of heavy equipment to be restricted to daytime • Use of equipment or method which generate lower vibration levels • Route heavily loaded trucks away from the VSRs as far away as possible. • To plan and phase excavation, earth- moving, and ground pilling activities in staggered manner • Control speed of vehicle movement at the worksite • Keep haul roads within project work site in good condition	Possible X Low	**Minor**	-
Human Health and safety: Priority 1 Disturbance/annoyance to the VSR due to vibration from construction activities	Possible X Medium	**Moderate**	**Impact added by TAC**	• Use of heavy equipment to be restricted to daytime • Use of equipment or method which generate lower vibration levels • Route heavily loaded trucks away from the VSRs as far away as possible. • Control speed of vehicle movement at the worksite • To develop the vibration monitoring plan in consultation QP & to monitor throughout construction period • Notify nearby VSRs in advance of the construction activities	Possible X Low	**Minor**	-

9. LIGHT

9.1. Introduction

Given its status as a highly urbanised city-state, high levels of light pollution are already being faced throughout Singapore. While unavoidable in cities, such lighting often has adverse impacts on the natural environment and wildlife.

Currently, the study site is surrounded by areas with artificial lighting which include lightings from Orchid Country Club golf course, streetlamps along the perimeter of the study area for traffic purposes and pedestrian walkways as well as household lightings from nearby residences. No artificial lights are present in the rest of the site, especially within the forested area.

It was observed that along the perimeters of the study area, the artificial lighting used along the portion of Yishun Avenue 1 used for traffic purposes illuminates the surrounding area including the adjacent vegetation (Figure 9.1). Vegetated areas along the portion of Orchid Country Club golf course are also illuminated by artificial light (Figure 9.2).



Figure 9.1 Artificial light observed along pedestrian walkway beside Yishun Avenue 1



Figure 9.2 Artificial lighting illuminated from Orchid Country Club golf course

9.2. Impact Assessment

9.2.1. Identification of Potential Impacts

Impacts to flora and fauna from light pollution should be avoided particularly for sensitive or threatened species highlighted in Chapter 4. Alteration of natural cycles of light and dark by artificial light sources can negatively impact the ecosystem. Increased artificial light during the night disrupts circadian cycles of animals and distorts the day-night cycle of plants. This may lead to increased predation pressure by diurnal carnivores on nocturnal animals, exhaustion from insects attracted to artificial light, disorientation and disruption of foraging by birds, and the alteration of breeding and sleeping cycles of various animals. As a whole, these effects derive from changes in orientation or disorientation, and attraction or repulsion from the altered light environment, which in turn may affect foraging, reproduction, migration, and communication behaviour.

Artificial night lights have also shown to have an impact on migratory birds, a large proportion of which migrate at night. In general, the risk of bird collisions increases with increased light emissions (Ogden, 2002).

Many groups of insects, such as moths, are attracted to lights resulting from their innate navigational behaviour. Visual communication within and between species can also be influenced by artificial lighting. Insects such as fireflies communicate through bioluminescent signals, which can only be achieved in the absence of background light (Longcore & Rich, 2004). Foraging behaviours of animals such as fruit bats are altered by light pollution, fruit bats are less active and forage less in artificially illuminated areas. As fruit bats play the ecological role of seed dispersers and pollinators, their reduced foraging activities may result in the loss of pollinating and seed-dispersal services they provide (Lewanzik & Voigt, 2014). The cumulative effects of such behavioural changes induced by artificial night lighting can have the potential to disrupt key ecosystem functions (Longcore & Rich, 2004).

9.2.2. Pre-construction / Construction Phase

During the pre-construction and construction stage, the source of impacts includes artificial lighting used to illuminate the project site, particularly if night works are conducted. The proposed works for the EIA study area are along existing roads, which include part of Yishun Ave 1 and Miltonia Close areas which already have existing artificial lighting. During the construction phase, particularly if night works are carried out, there will be additional light impacts from construction lighting. Impacts of light on the remaining forested area will be further exacerbated by edge effects, where vegetation clearance leads to open edges, thus allowing increased amount of light to enter these areas. The EIA study area is a forested area used by nocturnal species, including the various species of bats and frogs. These species will be most impacted by nightworks. For this study area, it is assumed that all construction activities will be limited to daytime as far as possible except in case of work exigency, with the implementation of the lighting management plan (LMP) approved by NParks. If left unmitigated, some slight impacts to biodiversity are expected.

9.2.3. Post-construction Phase

During the post-construction period, sources of light impacts will be derived from the streetlamps along Yishun Ave 1 and Miltonia Close areas for traffic purposes and pedestrian walkways as well as for safety or security reasons. With the clearance of forested areas, the edges of the retained forested area will be illuminated, causing disturbance to fauna species within.

Upon completion of infrastructure works in the EIA study area, no additional lighting is required during the post-construction phase. Hence, some slight impacts from light pollution during this phase are anticipated.

9.2.4. Evaluation of Impacts

Table 9-1 summarises the impacts covering of all three areas with their corresponding impact significances before and after the implementation of mitigation measures, which are elaborated in the following section.

9.3. Mitigation Measures

Where lighting is necessary for safety and security reasons for the proposed works within the EIA study area, mitigation measures can be taken to ensure minimal impact on sensitive wildlife.

9.3.1. Pre-construction and Construction Phase

During the construction phase, heavy construction activities within the EIA study area are to be limited to daylight hours (8 am – 6 pm). If necessary, only light nightworks are to be conducted outside of daylight hours. Light nightworks refer to works without the use of heavy machinery (e.g., no piling, no lights shining into the forested areas).

If light nightworks are necessary, construction lights should face downwards and away from forested areas. Such lights must be shielded, facing downwards and away from any forested areas. This will eliminate light spill, which is light that falls outside the are intended to be lit. Examples of ideal shielded lighting can be seen in Figure 9.3 Figure 9.3 below. All artificial lights should be turned off outside working hours except for safety & security reasons. For the work boundary along the proposed nature park area excluding the section along Yishun Avenue 1, it is recommended that hoarding of at least 4m height be installed during the earthworks phase, and 6m during all other construction phases, to minimise light spill into proposed nature park area.

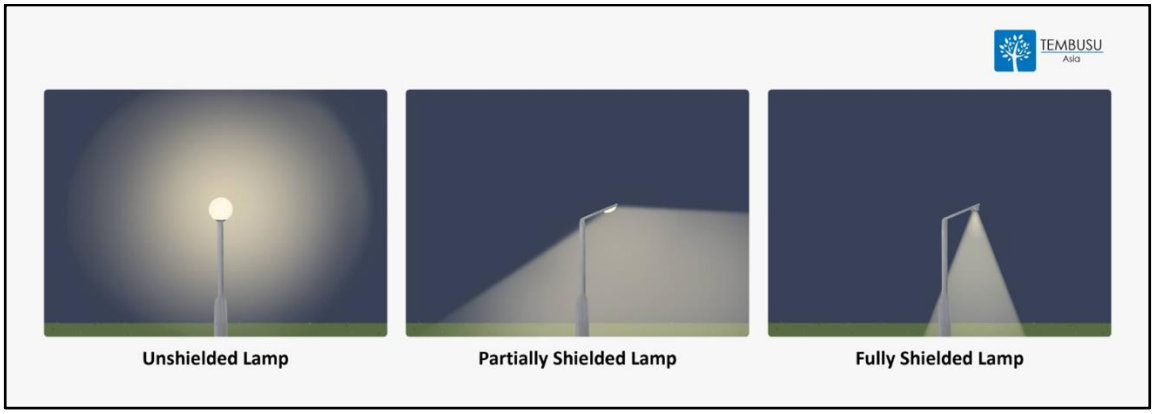


Figure 9.3 Example of light shielding

Additionally, a Lighting Management Plan (LMP) should be developed as part of the Construction EMMP in the case of work exigencies and for unavoidable nightwork, and the LMP is to be approved by NParks. The detailed requirement for LMP is covered in Section 12.5. The LMP should include minimally the following aspects:

- Objectives of Lighting Management Plan
- Purposes and categories of artificial lighting required
- Spatial layout of lighting utilised in project site
- Designs of lighting utilised – including height and shielding design
- Specifications of lighting utilised – lighting colour, spectrum, and brightness level
- Additional measures in place in the event that white or non-shielded lighting is required
- Implementation of monitoring plan

9.3.2. Post-construction Phase

During post-construction phase of the project, the impacts of light on the surrounding forested areas can be mitigated through proper designing of roadside and public area lighting system as recommended earlier. Further, the impact can be reduced through appropriate roadside buffer planting. The presence of thick and tall hedge plants could minimise the amount of light that enters the forested area, thus reducing its impact on sensitive flora and fauna within the forest (Figure 9.4). All lighting should be downward facing and turned away from forested areas as well as the proposed nature park area.



Figure 9.4 Example of hedge planting using *Murraya paniculata*

The recommended measures above, when implemented effectively, shall mitigate the potential light impacts at the site to acceptable levels.

9.4. Residual Impacts

The residual impacts were evaluated using the same method as in the previous study (AECOM, 2022) in Table 9-1 with due consideration that the recommended mitigation measures are implemented by the Contractor. The residual impacts are likely to be minor and considered acceptable.

Table 9-1 Impact assessment due to light levels on site with corresponding mitigation measures during the construction and post-construction phases

General description (TAC)	Specific description	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM)	Mitigation measures (TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM)
Construction Phase: Disturbance to the flora and fauna due to light coming from construction activities	Disruption of circadian cycles for nocturnal fauna. Changes in ecological processes including foraging and mating behaviour.	Likely X Medium	**Moderate**	**Impact added by TAC**	• Construction lights shall be directed downwards and inwards, towards project site (i.e., directly away from forested areas) • Construction to be kept to daytime working hours (8am – 6pm), except in the case of work exigencies and planned nightwork, with the implementation of the Light Management Plan (LMP) approved by NParks • All unnecessary lights should be turned off outside working hours • Install hoarding of at least 4m in height installed during the earthworks phase, and 6m during all other construction phases, around work boundary of proposed park area (excluding the section along Yishun Avenue 1)	Possible X Low	**Minor**	-
Post-Construction Phase: Disturbance to the flora and fauna due to post-construction phase lighting	Disruption of circadian cycles for nocturnal fauna. Changes in ecological processes including foraging and mating behaviour.	Likely X Medium	**Moderate**	**Impact added by TAC**	• Lighting installed should be directed downwards and inwards, towards project site (i.e., directly away from forested areas) • Use the minimum number and intensity of lights required for safety and security • Usage of non-white lighting where possible • Buffer planting should include thick hedge plants which can reduce the amount of light entering the forest.	Possible X Low	**Minor**	-

10. WASTE MANAGEMENT

10.1. Introduction

The main impacts related to waste storage, handling, transport, and disposal include:

- Deterioration of the environment (e.g., visual, water quality, biodiversity impacts, increase vectors, contamination etc.); and
- Health and safety risks with regards to hazardous wastes if they are not managed properly.

The main sources of potential impacts during the project activities are identified as the following:

- Waste management requirement for cut vegetation (e.g., from site clearance)
- Waste management requirement for excavated material
- Waste management requirement for general waste
- Waste management requirement for hazardous waste
- Waste management requirement for other construction waste

There are legislations implemented and enforced by the Singapore government for management of general and hazardous wastes which are discussed in next section. Table 10-1 provides anticipated types of waste likely to be generated during construction.

Table 10-1 Types of waste likely to be generated during construction phase

Solid Waste Type	Source Activity	Classification
Cut vegetation	Site clearance	Non-hazardous
Excavated material	Excavation	Non-hazardous
Plastic/wooden planks	Packaging material	Mixed
Hazardous waste	Maintenance activity	Hazardous
Scrap metal	Form/temporary work	Non-hazardous
General waste	Construction workers	Non-hazardous

10.2. Relevant Environmental Legislation, Guidelines and Standards

The Environmental Public Health (EPHA) Act, 2002 set up the regulatory framework for waste management through following regulations:

- Environmental Public Health (General Waste Collection) Regulations, 2000
- Environmental Public Health (Toxic Industrial Wastes) Regulations, 2000

The Environmental Public Health (General Waste Collection) Regulations set out the requirements for the management of non-hazardous general waste and the duties of generators and companies collecting such wastes. General waste must be managed in an environmentally sound manner and collected by an NEA-licensed general waste collector.

The Environmental Public Health (Toxic Industrial Wastes) Regulations set requirements for the generation, management, and disposal of wastes characterised as hazardous, such as oily sludge, solvents and asbestos containing materials. NEA has set out a list

of specific wastes which are classified as Toxic Industrial Wastes (TIW) under the Schedule of this regulation. Special requirements apply to these TIWs with the key provisions includes appointment of a licensed TIW collection company to collect and treat the waste.

The Code of Practice for ECO stipulates the role of occupiers of construction sites and of the ECO, and their responsibilities pertaining to waste management at construction sites.

10.3. Impact Assessment

10.3.1. Identification of Potential Impacts

Pre-Construction and Construction Phase

Cut Vegetation

As discussed in Chapter 4 of Biodiversity, potentially large number of trees will be affected during the implementation of this project. Similarly, other vegetation, such as bushes and grassland will need to be cleared within footprint of the project boundary.

Where cutting is required, the waste vegetation needs to be properly managed to prevent fire risks. The preferred disposal route for this type of material is for the extraction of timber for use in the wood industry. Large stumps will require off-site transport for disposal at local disposal sites. The contractor shall not be permitted to dispose of cut vegetation by burning, as specified in the EPM (Prohibition on Use of Open Fires) Order.

Excavated Material

Due to the nature of construction work involved (i.e., cut and fill), no significant volumes of spoil are expected to be generated from this project. Most of the excavated material is expected to be utilised to backfill the project area. Any unutilised excavated material should by disposed through a licensed waste collector for further treatment/ disposal.

Other Construction Waste

Other construction wastes will likely include:

- Broken rock or concrete
- Ferrous and non-ferrous scrap metal items
- Wooden planks, boards, pallets, formwork
- Packaging or wrapping materials such as plastic sheeting, corrugated
- Cardboard, paper
- Sacks and bags
- Metal or plastic containers and cans.

If not managed properly, the storage, handling, transport and disposal of construction wastes has the potential to result in visual, water, dust, noise and general environmental deterioration. In the event of inappropriate management methods, the disposal of construction waste is unlikely to raise any long-term concerns due to the inert nature of these types of materials. However, it is good practice to segregate different categories of construction waste at source to facilitate recycling/disposal. It is expected that general refuse will be handled, stored, managed and collected for appropriate disposal/treatment in accordance with the EPHA and the EPH (General Waste Collection) Regulations and

there shall be no significant adverse impact to the environment.

General Waste

General waste will include debris, litter and wastes generated by the construction workers. The storage and handling of general refuse has the potential to give rise to a variety of adverse impacts. These include odour problems if the waste is not collected regularly (i.e., daily), windblown litter, water quality impacts if waste enters watercourses, visual impacts as well as the attraction of pests, disease vectors and scavenging animals (insects, rodents etc.) to the site if waste materials are incorrectly stored onsite. The number of workers on site and subsequently the estimated volume general refuse is unknown at this time. Quantities of general refuse produced by workers are typically in the range of 0.5 – 1 kg per person per day. It is expected that general refuse will be handled, stored, managed and collected for appropriate disposal/ treatment in accordance with the EPHA and EPH (General Waste Collection) Regulations and there shall be no adverse impact to the environment.

Hazardous Waste

Hazardous wastes include those listed in the EPHA and EPH (Toxic Industrial Wastes) Regulations. Hazardous wastes are likely to arise principally as a result of maintenance activities for construction machinery and heavy vehicles at the construction site. Estimates of the quantities of hazardous waste are not available during preparation of this report. Types of hazardous construction waste generated include:

- Waste oils and used oil filters
- Paints and solvent residues
- Off-specification chemicals
- Oily water
- Drums, containers, packaging or wrapping materials, or soil contaminated with the TIW.

Hazardous construction wastes can pose serious environmental problems such as air, water, and land pollution unless they are handled, stored, transported and disposed of in an appropriate manner. Potential hazards may include:

- Toxic / adverse health effects on the workforce
- Adverse effects on water quality/ surface water resources, soil and groundwater in the event of spills and leaks
- Fire hazards

The generation of the hazardous construction wastes mentioned above is unavoidable. However, their environmental impact is not expected to raise long-term or irreversible negative effects as hazardous wastes are not routinely generated in big quantities by construction activities. In addition, hazardous wastes will not be generated after the construction phase of the Project has been completed.

Overall, potential waste management impacts are expected to be of slight negative nature, indirect, and local. Duration is anticipated to be short term and reversible as the impact will cease upon completion of the construction activities. As such, mitigation measures are recommended to further reduce the potential impacts.

Post – Construction Phase

During the post-construction phase of the project, there is likely to be an increase in the local human population. As such, the main source of waste is expected to be residential waste. General waste, especially food waste, may attract animals such as long-tailed macaques and wild pigs. This may result in human wildlife conflict. Construction waste is expected to be insignificant as all construction activities associated with the development will have been completed (other than waste generated from adhoc maintenance of road and infrastructures).

10.3.2. Evaluation of Potential Impacts

Table 10-2 summarises the impacts covering of all three areas with their corresponding impact significances before and after the implementation of mitigation measures, which are elaborated in the following section.

10.4. Mitigation Measures

Pre-Construction and Construction Phase

The various options within waste management can be categorised in terms of preference from an environmental perspective. The options considered to be more preferable have the least impacts and are more sustainable in a long-term context. Hence, the hierarchy is as follows:

- Avoidance and minimisation, i.e., not generating waste through changing or improving processes.
- Reuse or recycling of materials, thus avoiding disposal.
- Disposed in a safe and appropriate manner through licensed waste collection and disposal contractors.

It is recommended that the following guidelines and procedures are adopted:

- The contractor should be contractually obligated to develop a solid waste management plan to manage the collection, recycling and ultimate disposal of all generated wastes in an environmentally responsible manner.
- Timber/wood from cut vegetation can be recovered for use in the wood industry as far as possible.
- Surplus excavated material and inert wastes (soil, broken rock etc.) shall be reused within project site as backfill, landscaping, erosion control and restoration features wherever practicable.
- Scrap metals (e.g., welding rods, end caps, off-cuts etc.) can be recovered and sent for recycling as scrap.
- Other inert general waste will be collected and disposed through licensed waste collector.
- General refuse generated on-site must be stored in enclosed bins separate from construction and hazardous wastes. A licensed general waste collector shall be employed by the Contractor to remove general refuse, on a daily or every second day basis to minimise odour, pest and litter impacts.

- Chemical toilet facilities/ septic tank system with collection of accumulated waste for off-site disposal by a licensed general waste collector.
- All non-hazardous wastes that are generated must be handled and disposed of in accordance with the requirements of the EPHA and the EPH (General Waste Collection) Regulations.
- Any hazardous wastes that are generated must be handled and disposed of in accordance with the requirements of the EPHA and the EPH (Toxic Industrial Wastes) Regulations.
- Disposal of hazardous waste must be through a licensed waste collector for hazardous waste.

The recommended measures above, when implemented effectively, shall mitigate the potential impacts of waste management to acceptable levels.

Post-construction Phase

During post-construction phase, general waste from residences can be mitigated with robust disposal methods in order to reduce impacts to adjacent surroundings. Any waste generated, including those for off-site recycling, should be disposed in a safe and appropriate manner through licensed waste collection and disposal contractors.

Due to the proximity of the residential areas to the proposed nature park area, mitigation measures to minimize human-wildlife conflict should be implemented (e.g. monkey-proof rubbish bins).

10.5. Residual Impacts

The residual impacts were evaluated using the same method as in the previous study (AECOM, 2022) in Table 10-2Table 10-2 with due consideration that the recommended mitigation measures are implemented by the Contractor. The residual impacts are likely to be in the band of negligible to minor and considered acceptable.

Table 10-2 Impact assessment of the identified waste management factors with corresponding mitigation measures

General description (TAC)		Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM)	Mitigation measures (AECOM & TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM)
Receptor: Ecology								
Disposal of cut vegetation	Fire Risk	Possible X Low	**Minor**	**Impact added by TAC**	• To develop solid waste management plan • Timber/wood to be recovered for use in the wood industry as far as possible	Unlikely X Low	**Negligible**	**-**
Disposal of excavated material	Most excavated material is expected to be used in backfilling works	Unlikely X Low	**Negligible**	**Impact added by TAC**	• To develop solid waste management plan • Surplus excavated material to be reused within project site as fill, landscaping, erosion control and restoration wherever practicable	Unlikely X Low	**Negligible**	**-**
Disposal of general waste material	Odour problems, windblown litter, water quality impacts if waste enters watercourses, visual impacts	Possible X Very Low	**Minor**	**Impact added by TAC**	• Scrap metals to be recovered and sent for recycling as scrap • Inert general waste to be collected and disposed through licensed waste collector • All non-hazardous wastes to be handled and disposed of in accordance with EPH (General Waste Collection) Regulations	Rare X Very Low	**Negligible**	**-**
Receptor: Human								
Disposal of hazardous waste	Hazardous construction wastes can pose serious environmental problems such as air, water, and land pollution unless they are handled, stored, transported and disposed	Possible X Medium	**Moderate**	**Impact added by TAC**	• All hazardous wastes to be handled and disposed of in accordance with EPH (Toxic Industrial Wastes) Regulations • Disposal of hazardous waste to be conducted by a licensed waste collector for hazardous waste	Unlikely X Medium	**Negligible**	**-**

	of in an appropriate manner.							
Human-Wildlife conflict	Wildlife such as long-tailed macaques and wild boar might be attracted to food waste, habituating them to human food.	Likely X Medium	**Moderate**	**Impact added by TAC**	• Installation of monkey-proof bins	Possible X Medium	**Minor**	

11. VECTOR CONTROL

11.1. Introduction

As Singapore has warm tropical climate, the possibility of vector borne diseases is always present. Vectors are organisms that transmit disease. According to NEA, the five main vectors in Singapore and the diseases that they could transmit are summarized in Table 11-1. As the majority of vector-borne diseases in Singapore are transmitted by mosquitoes, vector control management shall mainly focus on mosquito control during construction activities.

Table 11-1 Common vectors in Singapore

Vector	Disease
Mosquitoes	• Dengue and Dengue Hemorrhagic Fever • Chikungunya • Zika • Malaria • Japanese Encephalitis • Filariasis
Rat Flea	• Plague
Rodent	• Rat Bite Fever • Leptospirosis • Murine Typhus
Cockroach	• Cholera • Food-Borne Diseases
Fly	• Cholera • Typhoid and Para Typhoid • Salmonellosis • Dysentery

Source: https://www.nea.gov.sg/our-services/pest-control/overview

11.2. Relevant Environmental Legislation, Guidelines and Standards

The Control of Vectors and Pesticides Act, 2002 is the main legislation for control of vectors with the prime objective to prevent related diseases such as dengue fever in Singapore. It aims to prevent the propagation of vectors and stipulates the prohibition of creation of any condition favourable to the propagation and harbouring of vectors. Under Part V of the Act, only companies that are registered with NEA as vector control operators are allowed to be engaged to conduct any vector control treatment or activity. Employees of vector control operators are required to be licensed as vector control technicians or vector control workers to conduct any vector control activity. All public health pesticide/repellent products intended for use against the five vectors (namely rodents, mosquitoes, flies, cockroaches, and rat fleas) must be registered prior to local sales in Singapore as per this Act.

The Environmental Public Health Act, 2002 stipulates requirements pertaining to vector control such as public cleansing, public nuisances, and insanitary premises. Environmental Public Health Act (Specified Construction Sites) Order 2021, and Code

of Practice for Environmental Control Officers which require construction site occupiers to employ either a part-time or full-time Environmental Control Officer, depending on the contract sum of the construction works. The Code of Practice for Environmental Control Officers sets out requirements on environmental health management of construction sites in the areas of vector control.

11.3. Impact Assessment

11.3.1. Identification of Potential Impacts

Pre-construction and Construction Phase

The main impact is the potential to cause an increase in the vector population within and in the areas surrounding the project site including the residential areas along Yishun Ave 1 and Miltonia Close during construction stage. There is a likelihood of vector-borne diseases affecting humans.

An increase in vectors may be caused by:

- Pooled water on the construction site (e.g., potholes, access roads with puddles, equipment)
- Storage of water on the construction site (e.g., water for washing)
- Storage and improper management of garbage and food waste
- Creation of stagnant conditions during drainage diversion
- Entrainment of debris, refuse and silts in stormwater run-off resulting choked drains and stagnant drainage
- Poor cleanliness and unsanitary conditions

The assessment of the potential impacts is described below.

Increase in Number of Mosquitos

Project construction activities have the potential to create suitable breeding conditions for mosquito populations. Specifically, without control measures construction work can create pools of water due to site conditions (e.g., vehicle potholes), construction work (e.g., trenches) and storage of equipment and wastes favouring the breeding of mosquito populations. The likelihood of mosquitoes breeding without control measures in place is high.

Increase in Number of Other Vectors

During the construction, construction personnel will generate domestic waste and food waste that if not managed, can attract other vectors (e.g., rats, flies and cockroaches). A lack of correct and secure disposal of these wastes would create suitable breeding conditions for these vectors. The likelihood of rats, flies and cockroaches breeding without control measures in place is high.

Fleas require a host (e.g., rodents or other mammal) in order to breed and therefore fleas are considered to be directly relevant to the construction of the Project. With control of other vectors, fleas and related diseases are not likely to occur.

Increase in the Incidence of Dengue-Fever and Other Vector-related Diseases

If the number of mosquitoes increase in the construction works areas, the likelihood of a dengue outbreak occurring in the vicinity of the project can increase. Therefore, it is important to prevent mosquitoes breeding at the construction works areas. The residential areas along Yishun Ave 1 and Miltonia Close are in the immediate surrounding of the project area. Hence occupiers of these premises can be exposed to vectors if proper control measures are not implemented.

If the number of rats, flies and cockroaches increases in the construction works areas, the likelihood of nuisance issues and vector-related diseases could increase. These impacts associated with these vectors can quickly change from nuisance to vector-disease levels. Rats can cause diseases and also damage equipment.

Overall, potential impacts are expected to be of slight negative nature, indirect, and local. Duration is anticipated to be short term and reversible as the impact will cease upon completion of the construction activities. As such, mitigation measures are recommended to further reduce the potential impacts.

Post-construction Phase

During the post-construction phase, most of the vector related impacts are expected to be associated to the residential areas. Vector related impacts associated to construction activities are unlikely as construction activities will have been completed (other than adhoc maintenance work).

Pools of water may still form in areas of stagnant water, such as drains or pots. This could create potential breeding conditions for mosquito populations, leading to a high likelihood of mosquitoes breeding if there are no control measures in place.

11.3.2. Evaluation of Potential Impacts

Table 11-2Table 11-2 summarises the impacts covering of all three areas with their corresponding impact significances before and after the implementation of mitigation measures, which are elaborated in the following section.

11.4. Mitigation Measures

Pre-construction / Construction Phase

Increase in Number of Mosquitoes

It is essential that the construction contractor proactively implements vector control plan with appropriate requirements. Source reduction and effective drainage are proposed to be the main forms of mosquito control, with the following mitigation measures to be implemented:

- Before construction commences, the construction contractor shall engage a vector control operator registered with NEA to prepare and implement vector management plan.
- Before construction starts, a Vector Management Plan shall be submitted to NEA.
- The construction contractor shall form an in-house vector control team to check

construction sites for breeding of mosquitoes.

- During the daily checks, particular attention shall be made to discarded receptacles and building wastes; building materials, canvas sheets, equipment and machinery; puddles on the ground levels; water storage drums, tanks and containers; bulk storage containers; trenches; lift wells; drains and channels temporarily constructed to drain off water; air handling units and air conditioners; and, flat roofs of temporary buildings.
- Empty receptacles, pails, basins and other containers shall be kept indoors.
- Construction worksite shall be kept free of litter; construction wastes shall be disposed promptly into bulk waste containers and the containers shall be emptied daily.
- Building materials shall be stored under shelter as far as practicable; materials shall be stored at least 60 cm above the ground to allow water collected below to be treated by the vector control operator.
- Air-handling units shall be stored under shelter or, the overflow pipe shall be uncapped to allow rainwater to drain out.
- Stagnant water shall be pumped from the works areas and ground depressions shall be covered with earth.
- Anti-mosquito oil and insecticides including BTI shall be applied into stagnant water at least once a week. The application should be repeated after rain as the oil and insecticides would be washed away by the rain.
- Any significant increase in numbers of vectors shall be reported to the NEA and investigated.
- Thermal fogging shall not be carried out due to location of project site adjacent to a forested area.

Increase in Number of Other Vectors

Rats, flies and cockroaches shall also be targeted for active preventative measures to reduce their breeding habitats (waste disposal areas and wet areas). General cleanliness and waste disposal protocols will control these vector populations and worker hygiene can help reduce insect attraction. The following mitigation shall be implemented:

- Worksite shall be kept litter-free and refuse bins shall always be covered tightly.
- Construction workers' food provisions shall be stored in rodent-proof rooms or cabinets.
- All food items shall be adequately covered and stored at least 60 cm above the ground.
- The in-house vector control team and the vector control operator should check for rodent burrows every week. Active burrows should be treated with rodenticides for three consecutive days or until the rats are all dead (i.e., no more dead rats found), and then sealed with compacted earth.
- Sanitary waste/domestic waste should be removed from the site in accordance with Singapore's legislation promptly.
- Any significant increase in numbers of vectors shall be reported to the NEA and investigated.

Increase in the Incidence of Dengue-Fever and Other Vector-related diseases

The mitigation to control mosquito numbers and other vectors will mitigate this

secondary impact on increase of dengue. Additionally, the following mitigation is proposed:

- During construction, vector control shall be undertaken as per the NEA Guidebook for “Scope of Works for Mosquito Control”.
- If required, assistance shall be provided to the authorities to investigate outbreaks of vector-borne diseases at the construction site.
- Weekly monitoring of the NEA’s dengue cluster map shall be undertaken to determine if the workers at construction areas are at risk.

With the implementation of the mitigation measures proposed, it is expected that the impacts can be reduced along with the potential for vector borne diseases.

Post-construction Phase

During the post-construction phase, vector related impacts can be mitigated through education to the residents and applying anti-mosquito oil and insecticides including BTI into stagnant water at least once a week. The application should be repeated after rain as the oil and insecticides would be washed away by the rain. Any significant increase in numbers of vectors shall be reported to the NEA and investigated.

Thermal fogging shall not be carried out due to proximity of the project site to the proposed nature park area.

Based on the assessment above, the potential vector impacts are deemed to be minor and can be mitigated through appropriate measures.

11.5. Residual Impacts

The residual impacts were evaluated using the same method as in the previous study (AECOM, 2022) in Table 11-2 with due consideration that the recommended mitigation measures are implemented by the Contractor. The residual impacts are likely to be in the band of negligible to minor and considered acceptable.

Table 11-2 Impact assessment of the identified vector control factors with corresponding mitigation measures

General description (TAC)	Specific description (TAC)	Likelihood X Intensity (TAC)	Impact before mitigation (TAC)	Impact before mitigation (AECOM)	Mitigation measures (TAC)	Likelihood X Intensity (TAC)	Impact after mitigation (TAC)	Impact after mitigation (AECOM)
Human Health and Safety	Priority 1 Increase in the number of mosquitoes may cause irritation to people residing nearby	Possible X Low	**Minor**	**Impact added by TAC**	• Contractor to engage an NEA-registered vector control operator to prepare and implement vector management plan • An in-house vector control team to check construction sites for breeding of mosquitoes • Construction worksite to be kept free of litter; construction wastes shall be disposed promptly into bulk waste containers and the containers shall be emptied daily • Educate residents on household practices to control mosquito breeding • Anti-mosquito oil and insecticides including BTI shall be applied into stagnant water at least once a week. The application should be repeated after rain as the oil and insecticides would be washed away by the rain • Thermal fogging shall not be carried out due to location of project site within forested area	Rare X Low	**Negligible**	**-**
	Priority 1 Increase in the number of vectors may cause irritation to people residing nearby	Possible X Very Low	**Minor**	**Impact added by TAC**	• Worksite shall be kept litter-free and refuse bins shall always be covered tightly. • Construction workers' food provisions shall be stored in rodent-proof rooms or cabinets • In-house vector control team and vector control operator to check for rodent burrows every week	Rare X Very Low	**Negligible**	**-**
	Priority 1 Increase in incidence of dengue fever and vector-related diseases (secondary impact)	Possible X Medium	**Moderate**	**Impact added by TAC**	• To implement mitigation measures to control mosquito numbers and other vectors • To aid the authorities to investigate outbreaks of vector-borne diseases if required • Any significant increase in numbers of vectors shall be reported to the NEA and investigated.	Rare X Medium	**Minor**	**-**

12. ENVIRONMENTAL MANAGEMENT & MONITORING PLAN FRAMEWORK

12.1. Overview

The Environmental Management and Monitoring Plan (EMMP) is a systematic approach to mitigate environmental impacts and monitor the implementation of these mitigation measures to ensure that project implementation will not cause any significant adverse impact to the site and the surrounding environment. It is also a useful tool to assess whether the mitigation measures taken are effective to reduce or mitigate the potential impacts caused by this project to minimal and acceptable levels during the construction.

The EMMP framework presented in this chapter is an outcome from the EIA process. This EMMP framework consolidates the mitigation and monitoring strategy required for this project and appointed Contractor shall adhere to this strategy, develop it further and implement throughout during the construction phase.

12.2. Construction EMMP

Before the construction works start, the appointed Contractor and Environmental Consultant will establish a detailed construction EMMP based on this EMMP framework, which is to be implemented and monitored during the construction phase. The Contractor shall be responsible to submit and obtain approval for EMMP from HDB, NParks, and other relevant Technical Agencies before commencement of works.

The EMMP to include the identified mitigation measures of this EIA and shall address the methodologies of the construction works prior to their commencement. Additionally, Fauna and Flora Management Plans recommended in this chapter need to be incorporated in EMMP with involvement of flora and fauna specialists from the EMMP team to finetune and implement ecological mitigation measures recommended in this report. The EMMP should also include waste management practices including restricting use & spillage of chemicals during construction phase into surrounding forested area.

The EMMP shall include environmental monitoring comprises of compliance inspections for prescribed mitigation measures and ambient environmental data collection, generally requiring sample collection and analysis. The environmental monitoring activities should also ensure that the project does not cause any significant long-term environmental impacts, in particular cumulative impacts, and that the existing environmental conditions and biodiversity is maintained.

Monthly environmental monitoring reports with all monitoring results (compliance and ambient monitoring), identified problems and additional actions taken to mitigate these problems should be prepared and submitted to the relevant authorities during the construction phase. Each subsequent monthly monitoring report should report on successful or failed follow-up actions until a problem has been effectively mitigated.

Table 12-9 provides the overview of recommended EMMP measures for this project which is to be incorporated into the EMMP by the Contractor. The environmental

monitoring locations are to be finalised by the EMMP team during EMMP formulation in consultation with relevant stakeholders.

12.2.1. EMMP Team

The contractors shall be responsible for implementing all the environmental requirements specified in this EIA report including EMMP conditions as well as requirements mandated by the applicable regulations and relevant authorities. It is recommended that to implement the EMMP, an EMMP team having necessary qualifications and experience shall be available throughout the construction period to support the Contractor. The EMMP team should include but not limited to the following:

Table 12-1 Roles and responsibilities of EMMP team members

Role Name	Qualification	Responsibilities
Environmental Manager/ Environment Control Officer (ECO)	Valid registration with the National Environment Agency (NEA) and demonstrated previous work experience in developments of similar size or complexity.	To act as EMMP in-charge and lead the implementation and reporting requirements of EMMP during construction phase. Responsible for managing all environmental issues arising from the construction work which includes the monitoring and ensuring the implementation and management of change of the EMMP, the environmental performance of the project, investigation of incidents, inspections of site and implementing corrective/ preventive measures. To coordinate with other EMMP team members for advice on specific issues related to EMMP implementation. To prepare monthly environmental performance monitoring reports.
Qualified Erosion control Professional (QECP)	Valid registration with the Institution of Engineers Singapore (IES)	Responsible to prepare, submit and obtain approval for Earth Control Measures (ECM) Plan from PUB prior to contractors start work. To ensure that the contractors implement the ECM in compliance with the ECM Plan.
Arborist/ Flora Specialist	Certified Arborist (CA) with an International Society of Arboriculture (ISA) certification with 5 years' experience.	To prepare project site specific flora management plan as part of EMMP, utilizing the EMMP framework recommended in the EIA and assist contractor in obtaining authority approval. To review the flora that will be affected, and to provide monitoring and advice to the contractor on matter related to transplantation and reinstatement. To assist in setting up a nursery or in selecting an external nursery, in carrying out native-plant salvaging, in maintaining salvaged saplings. To visit the site regularly to oversee the implementation of flora management plan and to provide biodiversity awareness training to site personnel. To advise and implement specific measures in the case of tree pruning prior clearance, tree injury, and construction activities affecting tree roots. To provide checks on Tree

Role Name	Qualification	Responsibilities
		Protection Zone (TPZ). To assist in reporting requirements of EMMP during construction phase. To liaise with NParks on addressing any comments/ requirements related to flora implementation measures.
Ecologist / Wildlife Specialist	At least 5 years' experience in wildlife in Singapore and/or the region	To prepare project site specific fauna management plan as part of EMMP, utilizing the EMMP framework recommended in the EIA and assist contractor in obtaining authority approval. To conduct a pre-clearance wildlife inspection and prepare Wildlife management protocols as necessary during site clearance stage. To provide advice and inspection related to wildlife throughout the construction duration and to identify, rescue & manage any trapped and/or injured wildlife at project site. To visit the site regularly to oversee the implementation of fauna management plan and to provide biodiversity awareness training to site personnel. To assist in reporting requirements of EMMP during construction phase. To liaise with NParks on addressing any comments/ requirements related to wildlife implementation measures.
Earth Control Measures Officer (ECMO)	Valid IES registration	The ECMO is responsible to implement all ECM requirements in compliance with the ECM Plan approved by PUB.

12.2.2. Environmental Objectives

Environmental Objectives for the project are recommended below. Contractors are required to adhere to the Environmental Objectives during entire construction stage.

- Minimise removal of conservation significant flora species at or adjacent to worksite.
- Maximise harvesting of sapling, and transplant of conservation significant flora species that will be affected.
- Prevent risk of fauna injury related to construction such as from fauna re-entry to worksite.
- Prevent human – wildlife conflicts at or near to worksite.
- Ensure retained, translocated, and planted flora's health.
- Ensure noise impacts comply with adjusted Maximum Permissible Noise Limits.
- Ensure water quality impacts comply with PUB and NEA allowable limits for trade effluent quality.
- Ensure no transmission of vector borne disease.
- Ensure no indiscriminate / illegal disposal of waste.
- Ensure no spillage / leakage of hazardous material.

12.2.3. Training Requirements

The site personnel involved in implementation of EMMP shall be adequately trained. Training needs assessment shall be conducted regularly and should include the concerned sub-contractors also. The contractors shall ensure that trainings are conducted before the starting the construction work and at a regular interval during construction phase for the site personnel. The recommended training program is provided in Table 12-2.

Table 12-2 Training Programme for Site Personnel

Training Schedule	Training Topics	Conducted By	Target Audience	Frequency
Prior to commencement of activities on site	EMMP Requirements Biodiversity & Environmental Awareness	EMMP Consultant	Environmental Manager/ ECO/ Project Manager / Construction Manager/ Construction Engineers/ Site Supervisors/ Sub-contractors	Once
Refresher training	Biodiversity & Environmental Awareness Briefing	EMMP Consultant	Site Personnel including Sub-contractors	Every six months during construction phase
Toolbox meetings	Briefing to include reminders on wildlife encounters and environmental protection	EMMP In-charge/ ECO	Construction Workers including Sub-contractors	Daily

12.2.4. Environmental Emergency Response Procedure

The regular and continual environmental monitoring may result in observations of failed or inadequate mitigation measures. Also, a public complaint/ observation may be received. Examples of environmental emergency are described below.

- Incident related to human – wildlife conflict
- Discovery of wildlife within construction site
- Incident of injury to wildlife due to work activity
- Damage to retained/ translocated flora
- Earth control measures (i.e., silt fence, cut-off drain, treatment) are ineffective
- Discharge of ECM does not meet regulatory limits
- Illegal water discharge from construction site
- Noise levels from construction activities exceed maximum permissible limits.
- Dust event due to dry weather conditions and high winds.
- Release of hazardous materials to land and watercourse

- Illegal disposal of waste into forested area.
- Community complaint relating to pollution

In the event that a failure is discovered that failure must be reported to the EMMP In-charge/ Project Manager within shortest possible time. The EMMP In-charge/ Project Manager will be responsible for ensuring adequate follow-up activities. This may include:

- Consultation with the EMMP specialists/ QECP/ VCO/ PRO.
- Arranging an immediate appropriate response on guidance of EMMP Specialists/ QECP/ VCO as necessary.
- Reporting and consultation with the relevant authorities (i.e., NEA, NParks, PUB) as required.

The emergency response flowchart in handling environmental emergency is presented in Figure 12.1. In the event of violation of relevant standards/ regulations, it is recommended that site environmental management practices are reviewed immediately, and the appropriate mitigation action taken immediately to reduce impacts to acceptable levels.

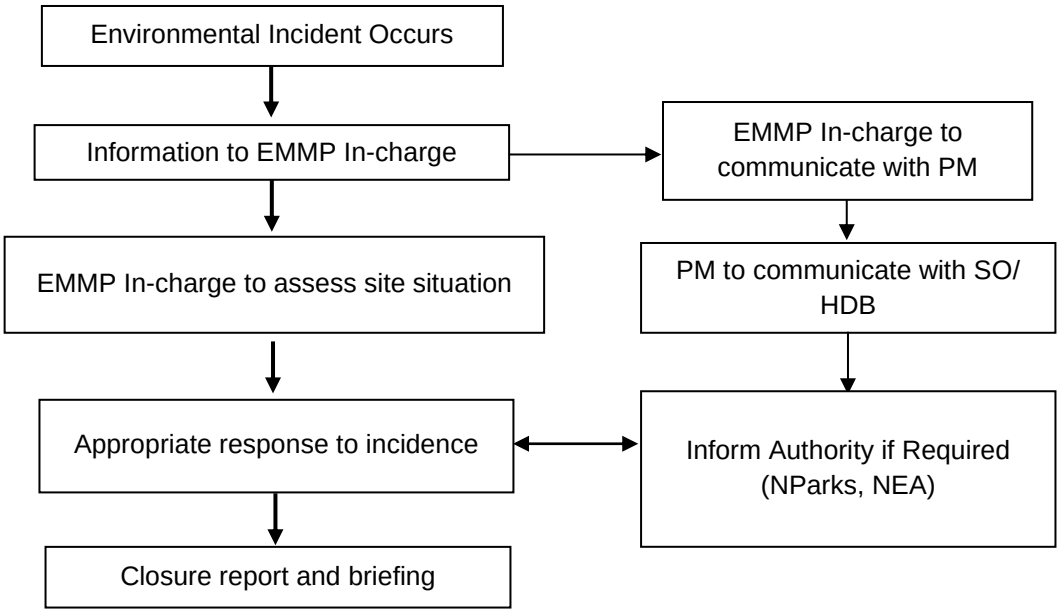


Figure 12.1 Environmental incidence reporting flowchart

12.2.5. EMMP Reporting and Documentation

Site Environmental Control Report by Environmental Control Officer

As per Code of Practice for Environmental Control Officers for Construction Sites, the ECO shall prepare the Site Environmental Control Programme before work commences at the worksite. Further, the ECO shall submit the Site Environmental Control Report (SECR) to the Project Manager covering assessment of the environmental efforts carried out and review the effectiveness of these measures.

The ECO shall inspect the construction activities regularly and routinely to ensure that the appropriate environmental protection and pollution control mitigation measures are

properly and timely implemented based on the EMMP's recommendations. The ECO shall record all observations and actions taken to report them in the SECR. This SECR should form part of EMMP monthly performance report described in next section.

Monthly Environmental Performance Report

A monthly Environmental Performance Report is to be prepared by the EMMP Team with assistance from the ECO of each phase of works, and to be submitted to SO, project management team, NParks, and other relevant authorities. The Performance Report is to include the description of the project activities being carried out at site during the month and status of implementation of the EMMP including information on environmental incidence if any. Table 12-3 provides the monthly environmental performance reporting framework.

Table 12-3 Monthly Environmental Performance Report framework

Sr. No.	Item	Description
1.	Project Status	Update on project activities within project area
2.	EMMP Implementation Status	Daily observations and actions taken, ECO report, ECM performance checklist, Biodiversity specialists' observations and recommendations, Physical monitoring results (Noise, Air, Surface water quality, ECM discharge) and assessment, Vector control report, Waste disposal record
3.	Environmental Awareness Training	Record of periodic biodiversity awareness training/ toolbox briefings
4.	Environmental Incidence	Environmental Incident report and corrective actions, public feedback & response
5.	Authority Inspection & Findings	Record of Authority inspection visits (i.e., NParks, NEA, PUB) and corrective actions

Environmental Close-off Report

A final environmental close-off report should be prepared for each phase after construction work is completed to confirm that no residual impacts are observed.

12.3. Wildlife Management Plan

Given the location of the site within a forest of significant conservation value, it is necessary to minimise impacts to fauna species on the site. The development of a proper Wildlife Response and Rescue Plan will help to reduce impacts to fauna, while also reducing the risk of human-wildlife conflict, which may pose a human health and safety issue if not managed.

Wildlife management should commence prior to construction works. This is to ensure that animals within the site are safely moved outside the working boundaries, either by passive shepherding or active relocation. A Wildlife Rescue and Response Plan should then be put in place for the duration of the construction period for animals that may get trapped or injured within the construction site.

All construction personnel are to be sufficiently trained on biodiversity issues on the site and how to respond to sightings of fauna.

12.3.1. Biodiversity Awareness Training

Prior to any construction activities, all construction personnel are to attend a biodiversity awareness training by the EMMP consultant. This training should impart important information on the ecological importance of the site, and the importance of minimising impacts to the natural environment. Also, they should be trained on the common fauna species they may encounter, and what to do should they have any wildlife encounters.

After the initial training, refresher trainings and toolbox briefings are to be conducted as specified in Section 12.2.3.

12.3.2. Wildlife Management during Clearance

Wildlife management during tree clearance is requirement for the project site. Directional clearance will allow for the passive shepherding of mobile fauna species, while active relocation of animals found within the project site may be required for other species. This is done in order to:

- Minimise the risk of road hazards and kills from the terrestrial fauna that are displaced from the project site onto adjacent roads.
- Minimise the risk of human-wildlife conflict from animals remaining within the project boundaries
- Encourage wildlife movement into designated forested areas located outside of the project site's boundary.

Site clearance to be conducted in the following steps:

- Permanent hoarding along proposed working boundary along Yishun Avenue 1, Miltonia Close, and Orchid Country Club to prevent entrance of fauna species into construction area and prevent animals from running onto the road;
- Manual clearing of undergrowth in phases and the phased installation, and relocation of permanent & temporary hoarding to prevent return of wildlife;
- Inspection of trees and tree holes for arboreal fauna, and relocation by qualified agencies and/or specialists.
- Felling of remaining trees.

Upon completion of the tree felling in the project area, the permanent hoarding will cover the full perimeter of the project worksite, as well as the proposed nature park area.

12.3.3. Target Species

A list of target fauna species has been developed based on the findings of the EIA. Besides species encountered during the baseline surveys, other probable species that exist on the site were also included. This list was developed with the following considerations:

- probable presence of species in the Project area prior to construction;

- risks to species from being in close proximity to construction activities;
- practicality of relocating species from the construction site;
- conservation significance of species; and
- risk of road kills, road hazards, and/or human-wildlife conflict arising from uncontrolled species displacement from the project area.

The target species in the list in Table 12-4 have been categorized into two groups depending on their habits, and thus the approach required for wildlife shepherding. Fauna species in the first category are in general highly mobile species in which a passive approach is recommended, while fauna species in the second category are less mobile and would require a more active approach to shepherding.

Table 12-4 List of identified target species

Category	Species	Active Hours
Passive Shepherding	Long-tailed macaque	Diurnal
	Common palm civet	Nocturnal
Capture-and-release	Smooth-coated otter	Diurnal
	Black spitting cobra	Diurnal
	Clouded monitor	Diurnal
	Malayan water monitor	Diurnal
	Reticulated python	Nocturnal
	Bamboo bat	Nocturnal
	Malayan colugo	Nocturnal
	Other snake species	Diurnal and nocturnal

For wild pigs found at or around the site at any time during the project, NParks is to be informed as soon as possible at nparks_wildlife_management@nparks.gov.sg for advice and subsequent action. An approved wild pig removal contractor must also be engaged to trap and remove the said animals, the process of which may take about 4–8 weeks.

There are currently a large number of feral dogs on the project site. For dogs found within and around the project site, a trapping programme should be done at least 4 – 8 weeks prior to the commencement of construction activities. NParks should be contacted for advice and subsequence action for the trapped dogs.

12.3.4. Methodology and Approach

Directional tree clearance should only during scheduled daylight hours (8am to 6pm). It may include a combination of the following activities:

- Installation of hoarding along project boundaries, which would help to guide target terrestrial fauna in the intended direction of movement and as a barrier to prevent wildlife displacement onto adjacent roads;
- Installation of temporary hoarding to along width of cleared areas to prevent wildlife from re-entering the cleared areas;
- Systematic pattern of tree clearance in the site in order to encourage wildlife to encourage wildlife to move in an intended direction of movement towards

adjacent refuge habitats, and;
- Careful survey to check for the presence of target fauna species and any active nests or dens.

Prior to any tree felling, the site is to be inspected by an ecologist to ensure that no target fauna and active nests or dens remain. After clearance of undergrowth, cleared areas should be hoarded up to prevent target terrestrial fauna from returning to the site.

The wildlife inspection prior to tree felling and vegetation clearance will also check for any entrapped animals within the hoarded area to be cleared. This inspection will be valid for 7 days only, during which the trapped animals have to secured away from the site and clearance must be conducted. If more than 7 days have passed and site clearance is not done yet, the inspection should be carried out again.

In the event that any target fauna listed in Table 12-4 are encountered during this process, the following actions which have been developed with the consideration of reducing stress to fauna while ensuring the effectiveness of the exercise shall be taken:

i) Passive Shepherding: These are highly mobile species where passive shepherding is likely to be effective. When species in this category are encountered, personnel should allow the animal to move on its own accord. If necessary, personnel may talk loudly or make some noise by clapping their hands together to encourage the animal to move. If any individual fauna does not move on its own after sufficient time (i.e., up to one hour) has passed, the EMMP team is to make a decision on whether to call NParks' Animal Response Centre or ACRES for the appropriate removal of the animal.

   Should the team encounter a visibly injured animal, NParks' Animal Response Centre or ACRES should be called immediately for the next course of action.

   No attempt should be made by the EMMP team, workers, or other unqualified personnel at any point to handle animals on site. Handling animals without appropriate certification is illegal under the recent Wildlife Act of June 2020.

ii) Capture-and-release: Species in this group are less mobile and/or venomous, and a passive shepherding approach is deemed to be ineffective and/or unsafe. A capture-and-release approach will be needed to ensure safe relocation of these fauna from the site prior to construction. In the event that these species are encountered, NParks' Animal Response Centre or ACRES should be called immediately for the next course of action. Capture-and release of animals encountered should be conducted by an NParks' licensed animal management company.

For trees that are subjected to removal, it is necessary to check for the presence of fauna species before each individual tree is felled.

The ecologist shall inspect the tree for the presence of fauna, including birds, bats, arboreal mammals, and arboreal herpetofauna. The ecologist should do the following:
- Check the crown of the tree for bird nests

- Check along the trunk from the bottom up for holes in which animals could be nesting
- Scan the trunk and all the branches for animals using the tree
- Scan the ground for potential nests, eggs, or burrows

Photographs of all nests, tree holes, and burrows should be taken for record purposes. In the event that the presence of birds, bats, arboreal mammals and herpetofauna, are found on the tree, tree felling, or transplanting must be postponed until the animal has left the tree on its own accord.

Tree felling or transplanting should not occur during prime breeding season for birds in Singapore, between the months of February to July. Outside these months, if active nests are detected on the tree, nests shall be left undisturbed until the young birds have fledged. Inactive nests should be removed to minimize the possibility of a new nesting attempt. Tree felling or transplanting shall occur only when no active nests are present on the tree.

Once tree felling is completed, the tree should be inspected again for any animals that were not detected earlier. Should an animal be detected after felling, NParks Animal Response Centre or ACRES should be contacted immediately, especially since the animal might be injured.

Through the undertaking of general approach, a register shall be maintained to record:

- the activities that were carried out,
- the species, numbers, GPS locations, dates, timings, and actions taken (if any) for each target fauna which was identified, and
- the description, GPS location, and actions taken (if any) for each burrow, inhabited tree hole and nest that was identified.

12.3.5. Spatial Visualisation of Directional Clearance

The figures below illustrate the overall scheduled phasing for directional clearance. These activities should take place during daylight hours only (i.e., 8 am to 6 pm) and a minimum of one rest day (i.e., Sunday) per week shall be provided to reduce disturbance to wildlife. Tree felling may commence three days after clearance of the understory vegetation.

This plan serves as a guide and should be updated prior to actual clearance works to include a more detailed clearance regime.



Figure 12.2 Hoarding before directional clearance commences

Permanent hoarding is to be erected along the contract boundary around the entire project site, including the proposed nature park area. The location of the permanent hoarding is indicated by the dark blue line in Figure 12.2 above. An example of the permanent hoarding is illustrated in Figure 12.3 below.



Figure 12.3 Example of the permanent hoarding

Directional clearance should encourage fauna to move to the proposed nature park area

in the middle of the project site. Site clearance is to start from the northwest corner and move in the southward direction. Directional clearance should be conducted in 50 m by 50 m intervals as demarcated by the dashed white lines in Figure 12.4.

Prior to any vegetation clearance in the first interval, all tree holes, nests, and burrows should be inspected for wildlife.



Figure 12.4 Directional Clearance 1

The first cleared area should be temporarily hoarded up, as indicated by the light blue lines in Figure 12.4.



Figure 12.5 Directional Clearance 2

Prior to any vegetation clearance in the next 50 m by 50 m interval, all tree holes, nests, and burrows should also be inspected for wildlife. Directional clearance should take place in the direction of the black arrow, to encourage fauna to move towards the proposed nature park area.



Figure 12.6 Directional Clearance 3

Directional clearance should continue towards the south following the intervals demarcated by the dashed white lines. Prior to any vegetation clearance, all tree holes, nests, and burrows should be inspected for wildlife. In the event of any wildlife incidences, a wildlife contractor should be engaged. After each 50 m by 50 m interval has been cleared, the area should be temporary hoarded along the light blue lines.



Figure 12.7 Directional Clearance 4

Figure 12.7 shows the end of the directional clearance in the northern section. Upon completion of directional clearance up to the proposed nature park area, permanent hoarding (dark blue line) should be erected along the northern boundary of the proposed nature park area.

After the northern section has been cleared, directional clearance shall commence in the southern section.



Figure 12.8 Directional Clearance 5

Temporary hoarding (light blue line) should be erected along northern and southern sections along the last interval of remaining area to be cleared. There should be no gaps between hoarding to prevent fauna species from entering the site.

Directional clearance in the last interval should be conducted towards the west, to encourage fauna to move to the proposed nature park area. Prior to tree felling in the last interval, all tree holes, nests, and burrows should be inspected for wildlife. In the event of any wildlife incidences during tree felling, a wildlife contractor should be engaged.



Figure 12.9 Directional Clearance 6

Once directional clearance has been completed, the full working area should be hoarded up with permanent hoarding following the contract boundary. There should be no gaps between hoarding to prevent fauna species from entering the site.

12.3.6. Wildlife Response and Rescue Protocol

Even upon the completion of wildlife shepherding works, it is highly probable that animals might be able to enter the site and get trapped, particularly burrowing or climbing animals. Whenever fauna is encountered within the working areas, all construction activities should be stopped immediately, and the Wildlife Response and Rescue Plan should be followed. Workers are to notify their supervisor, who will in turn contact the designated ecologist. The ecologist will then decide the next appropriate course of action.

All documentations of wildlife are to be captured in photographs, and a Wildlife Incident Form provided in **Appendix J** is to be filled.

Table 12-5 Wildlife response and rescue plan

Particular	**Within the project site**					**Outside project site**
Timeframe	During working hours					Any time
Animal type	Highly mobile animals (e.g., wild pig, feral dog, smooth-coated otters, and long-tailed macaques)		Non-large animals			Any
			Venomous / poisonous (e.g., king cobra, black spitting cobra)		Non-venomous / -poisonous (e.g., Malayan water monitor)	
Animal condition	Alive / Moving / Resting	Dead	Alive / Moving / Resting	Dead	Any	–
Risk To human	High	Low	High	Low	Low	–
Response	Stop work on work site Report to PM PM to report to EMMP In-charge EMMP In-charge to inform EMMP Specialist (Fauna), who will contact NParks/ ACRES for next steps if	Barricade affected area Report to PM PM to report to EMMP In-charge EMMP In-charge to inform EMMP Specialist (Fauna). If required, Contractor to assist with transporting of	Stop work at affected area; if possible, barricade affected area Report to PM PM to report to EMMP In-charge EMMP In-charge to inform EMMP Specialist (Fauna), who will contact	Barricade affected area Report to PM PM to report to EMMP In-charge EMMP In-charge to inform EMMP Specialist (Fauna). If required, Contractor to assist with transporting of	a. Stop work at affected area; if possible, barricade affected area b. Report to PM c. PM to report to EMMP In-charge d. EMMP In-charge to inform EMMP Specialist (Fauna), who will contact	Notify NParks Animal Response Centre/ ACRES hotline if necessary

Particular	Within the project site					Outside project site
	necessary	the Wild Animal to Disposal Location	NParks/ ACRES for next steps if necessary	Wild Animal to Disposal Location	NParks/ ACRES for next steps if necessary	
Remarks	No attempts shall be made by Contractors to handle the animal Contractor to take photograph of the animal if possible. Contractors shall allow the animal to leave the site without harassment / handling If animal is trapped, notify NParks Animal Response Centre or ACRES hotline For wild pigs found at or around the site, NParks is to be informed as soon as possible at for advice and subsequent action. An approved wild pig removal contractor must also be engaged to trap and remove the animal.	Contractor to take photograph of the animal	No attempts shall be made by Contractors to handle the animal Contractor to take photograph of the animal if possible. Contractors shall allow the animal to leave the site without harassment / handling If animal is trapped, notify NParks Animal Response Centre or ACRES hotline	Contractor to take photograph of the animal.	No attempts shall be made by contractors to handle the animal Contractor to take photographs of the animal if possible. Contractors shall allow the animal to leave the site without harassment / handling If animal is trapped, notify NParks Animal Response Centre or ACRES hotline	Contractor is encouraged to report Reports could be from Public and/or Contractor's Staff If required, EMMP In-charge to contact PM for assistance of transferring Wildlife Animal Carcass to Disposal Location

12.4. Flora Management Plan

It is recommended to develop a detailed flora management plan as part of EMMP during construction stage by utilising recommended measures in this Section.

The plan should lay out details on how to set up an on-site nursery or selecting an external nursery, how to carry out native-plant salvaging, how to maintain salvaged saplings, how to carry out tree protection works, the required components of tree assessments and monthly monitoring, etc. The responsibility of native plant salvaging process and management from this project should come under the Flora Specialist/Nursery Manager. The tree protection and assessment duties should come under an ISA Certified Arborist.

Within the areas to be cleared, trees to be retained will be confirmed at a construction phase. Protection of retained trees should be done though establishment of appropriate Tree Protection Zones (TPZ). Additionally, hoarding to be implemented around the project site to prevent unnecessary vegetation damage outside the project area. Any native flora species found within cleared land should be salvaged whenever possible.

12.4.1. Salvaging Native Plants, Setting Up of Nursery, and Reinstatement

Native Plant Salvaging Personnel Requirements

To salvage native forest species from the development site successfully, it is crucial to accurately identify local forest species (saplings, shrubs, trees) and maintain a high survival rate of the salvaged saplings. The plant salvaging team that is engaged are therefore required to show evidence that demonstrates their expertise in local flora, arboriculture, nursery management, and sapling transplanting. The plant salvaging team will consist of a Flora Specialist, an Arborist, and a Nursery Manager. All three personnel do not need to come from the same company. The Flora Specialist and Arborist can be the same person provided the person fulfils the criteria for both positions.

The Flora Specialist must meet **any one** of the criteria below:

- Published as first author for one publication, or as co-author for two publications or more. Accepted publications include botany/forest ecology-related books, and/or botany/forest ecology research papers from local journals such as Garden's Bulletin Singapore/ Nature in Singapore
- At least one (1) year of experience in conducting either of the following in secondary forests, primary forests and/or mangroves:
    - flora baseline surveys
    - forest ecology research
- Collected and submitted voucher specimen(s) of native plant species with traceable collection ID and collectors name at local herbariums (SING, SINU herbarium)

The Arborist must meet all the criteria below:

- ISA-certified with at least three (3) years of working experience in landscape

industry
- Have experience writing tree assessment report for development projects
- Have experience coordinate tree transplanting works for development projects

The Nursery Manager must meet all the criteria below:
- At least two (2) years of working experience in transplanting saplings and cuttings from development sites while maintaining a high survival rate of saplings (>70%)
- Have enough personnel capacity to take care of up to 2000 number of transplanted saplings/cuttings

Responsibilities of Plant Salvaging Team

Flora Specialist
- To assist Arborist to identify trees suspected to be of threated status during pre-construction tree assessment
- To assess the preliminary list of plants to be salvaged to determine if they are suitable for salvaging
- To work with the Nursery Manager to identify, tag and transplant native plant saplings (less than or equal to 0.3m girth) from affected area during site clearance stage
- To categorize and assist nursery to arrange the salvaged native plant saplings based on local conservation status (Least Concern [LC], VU, EN or CR)
- To establish an inventory list with species and quantity information of the salvaged species and, with assistance from the Arborist, advice the developer the species suitable for forest restoration efforts (if applicable), and species suitable for developed area planting
- Should native species saplings from other countries of origin are ordered to meet native species planting demands from development, the Native Flora Specialist must inspect the species of these nursery stock and verify if the correct species is received

Arborist
- To assess the preliminary list of trees to be salvaged to determine if they are suitable for salvaging
- To perform pre-construction tree assessment for trees within affected area, and ad-hoc tree assessment for additional trees affected by development design during construction period
- Advise the appropriate size of Tree Protection Zones (TPZs) for Trees to be Protected
- Ensure developers establish TPZs and perform necessary mitigations for trees to be retained on construction site, including transplanting of trees larger than 0.3m girth
- Conduct monthly monitoring of health and structure of trees within and/or in vicinity of construction zone
- To coordinate with developers for other landscape planting requirements if required

Nursery Manager

- To establish an on-site nursery or prepare an off-site nursery with sufficient personnel and facilities to maintain salvaged saplings
- With assistance from Native Flora Specialist, to salvage native plant saplings from affected areas before site clearance
- To provide all materials, equipment, and labour required for the maintenance of salvaged saplings
- To maintain high survival rate (>70%) of salvaged saplings until end of the construction stage when the saplings can be transplanted
- To adhere to best management practice in the industry for nursery operations and transplanting throughout development period
- To provide salvaged saplings to be planted at designated landscaping areas

Setting Up On-site Nursery/ Selecting an External Nursery

Prior to site clearance, the Contractor should decide whether to establish an on-site nursery or to select an external nursery to house the salvaged native plants based on the stakeholder consultation (i.e., HDB, NParks). If on-site nursery is opted, the nursery has to be established by an appointed Flora Specialist/Nursery Manager with relevant qualification in vicinity to development site with minimum land-clearing. Alternatively, the Contractor can opt to engage an external nursery to house and maintain the salvaged saplings. The Flora Specialist/Nursery Manager must have experience in transplanting sapling and cuttings from development sites while maintaining a high survival rate of saplings (>70%). The Flora Specialist/Nursery Manager should ensure the on-site nursery has enough resources to handle at least 1000 number of saplings.

The on-site or external nursery should be sealed with an irrigation system installed. If the nursery is located in areas with full sun exposure, the Flora Specialist/Nursery Manager must ensure there are measures in place to provide areas with indirect sunlight (e.g., shade cloth) where the light is between 60-90 Photosynthetic Active Radiation (PAR) and maintain at least 85% humidity (e.g., misting) depending on the growth requirements of saplings. The temperatures within the nursery should not exceed 30° Celsius. The daily monitoring of the environmental conditions must be taken and documented as a record. Until the saplings are available for reinstatement purposes, the Flora Specialist/Nursery Manager must be responsible for sapling maintenance.

Salvage and Transfer Native Plants to Nursery

Before any planned or additional/ad-hoc site clearance, the Flora Specialist, who is preferably also an ISA-certified Arborist, shall identify, take photos of, and tag native tree, shrub, climber, fern, and palm saplings with local conservation status of LC, VU, EN and CR with unique tag numbers (Figure 12.10). The reason why LC species are also to be salvaged is because LC species tend to be fast growing and help to create conducive environment for growth of late-successional forest species. The tagged saplings should be in healthy and vigorous condition, free from dead wood, bruises, or other root or branch injuries. They should also be free from insect and/or disease infestation. If any fruits of species with local conservation status of EN and CR are observed during salvaging, the Flora Specialist should collect the fruits and seeds and

consult with Native Plant Centre personnel (located at Pasir Panjang Nursery) whether these fruits and seeds should be submitted to Native Plant Centre. If Native Plant Centre does not wish to collect the fertile materials, the fruits and seeds may be released outside project area such that they do not get destroyed by ground clearance.

Only saplings with a girth of 0.3 m or less are to be tagged and harvested. If the species is not known, samples should be sent to the Singapore Botanic Gardens Herbarium to confirm the species. The root ball size of saplings will be determined in consultation with the Arborist. The general rule of thumb of rootball size for transplanting is that for every 1 cm increase in tree stem diameter, there should be 8cm increase in root ball width. For example, a diameter of 5cm would require 40 cm root ball width. The height of root ball should range from 35–50 cm depending on the root condition. Tree pruning should be minimal, using appropriate sharp tools that are wiped clean before each cutting to remove dead branches and defective branches prior to being transplanted. The tree saplings should be watered well 24 hours prior to trenching if the ground is dry. The Flora Specialist / Nursery Manager should subsequently arrange personnel to salvage the tagged saplings.

There shall be sufficient support installed prior to trenching to ensure that trees do not move. Trenching should be performed manually around the outer edge of the designated root ball size. The root balls should be wrapped and secured with geotextile and polythene wraps. Tree saplings should then be lifted from the secured root ball and loaded onto the transport vehicle. Secure tree saplings firmly onto the transport vehicle and cover the sapling crown with tarp netting prior to transporting. Covering the tree crown with tarp nettings should help to reduce transpiration pull and protect the saplings from wind burn.

If a plant (e.g., climber) cannot be transplanted in full, cuttings of 1–1.2 m should be made and propagated. The cuttings shall be placed in a sealed plastic bag with water to maintain humidity. Epiphytes and ferns can be collected and tied to a fern slab or, in cases where the epiphyte or fern is attached to fallen branches or log, the epiphyte or ferns can be collected together with the branch or log. Transportation of transplanted epiphyte or ferns need to be done with proper care to reduce transportation shock to the saplings/plants. It would be acceptable to mount the epiphytic ferns to bark of a mature healthy tree (instead of being transported to nursery) if suitable trees can be found in vicinity of project site. It is important to ensure that epiphytic ferns are relocated to trees or areas (if the fern is attached to fallen branch or log) of similar microclimates with where such ferns were collected.

In the on-site nursery or external nursery, tree saplings should be unloaded from the transport vehicle, lifting the sapling from the secure root ball. The saplings should be placed into the bags or containers in the nursery site. After placing the tree sapling into the polythene bag, remove the geotextile/polythene wraps and backfill the space/gaps with clean approved soil mix. Staking support shall be provided as and when necessary to keep the plant upright. The saplings shall be placed with adequate spacing from one another in a semi-shade shelter in temporary nursery sites. Cuttings from climbers shall be dipped into growth hormone and inserted into a container with a mixture of sand and soil. Individual saplings shall be salvaged from site, transported, and placed in the

temporary nursery site within a day.

The Flora Specialist/Nursery Manager shall tally the total number of salvaged saplings and provide an inventory consisting at least the tag number, photo, and species of each salvaged sapling.



Figure 12.10 Example of a tagged native sapling



Figure 12.11 Examples of temporary nursery

Growth and Maintenance of Salvaged Native Plants

The newly harvested saplings should be maintained until the saplings have sufficiently established. The transplanted climbers and epiphytes are to be placed under shade until they have established and sprouting of young leaves occur. Once each tree has been transplanted, daily maintenance activities should begin. The Flora Specialist/Nursery Manager should provide all material, equipment and labours required for maintenance of salvaged saplings. Sufficient space between salvaged saplings should be provided

such that the saplings have room to grow in size. Table 12-6 outlines the maintenance regime.

To ensure good form and structure of the harvested saplings, it is recommended to carry out formative pruning on the harvested tree saplings in accordance with ANSI A-300 pruning standards (ISA). Manual weeding should be carried out regularly for the harvested saplings. All weeds should be removed before mulching. Regular mulching should be applied to all harvested saplings at the receiving site. The mulch used should be friable, odour-free high grade mature composts.

Table 12-6 Maintenance regimes for salvaged plants at nursery

Regime	Frequency	Material
Watering	Daily, except for the rainy days	Non potable water 5L for trees <0.1m in girth and at least 30L for trees >0.3m in girth
Fertilization	Fortnightly	E.g., Fish kelp, humic acid, high EC molasses
Pesticide	As and when required	Pesticide should be avoided whenever possible. Use organic certified solutions instead
Mulching	Once a month	Mulch should have a minimum thickness of 20 mm, should be an approved friable, odour-free high grade mature compost or an approved mix, with C:N ratio between 12:1 and 25:1. Mulch pH must be between 5.5 to 7.
Weeding	Once a week	Weeding should be done manually and before mulching
Pruning	As and when required	Clean cutters. Cutters must be wiped clean in between cuts.

Site Reinstatement Works Using Salvaged Native Plants

Three months after the transfer of salvaged saplings to the on-site nursery/external nursery, the Flora Specialist/Nursery Manager shall tally the remaining saplings and estimate the survival rate of each species as an effort to improve industry knowledge of survival rate of native species. With the final list of surviving saplings, the Flora Specialist/ Arborist shall inform the Contractor the remaining species and the quantity of salvaged saplings available for site reinstatement purposes, especially as part of landscaping plan for future residential area.

After all the remaining salvaged plants had been planted on reinstatement sites, the following ISA Best Management Practices (BMP) are to be implemented, including watering for at least eight weeks to ensure survival and establishment.

The criteria of satisfactory saplings include (but are not limited to):

- Saplings are in good health and free from injury with good taper
- Saplings of tree species can be self-supporting and planted without staking (with

the exception of climber and shrub)

- Saplings of excurrent species should have a defined central leader with apical bud intact
- Root crown must be at the surface of the rootball
- When shaking or handling the unsupported rootball at least 90% of the soil volume must remain intact
- Rootball is shaved or pruned if girdling root is observed within planting bag

12.4.2. Assessment and Monitoring of Trees to be Protected

Before any construction activity begins (including both planned and ad-hoc site clearance), the Arborist shall perform pre-construction tree assessment for trees at proposed development site. The Arborist should utilise Site Layout Plan and Topography Plan to determine extent of tree roots and tree crown affected by the development. Based on site observation, construction drawing and design, estimated work area boundary, the Arborist shall produce tree assessment report recording tree information such as site and tree photos, species, height, girth, crown spread, tree health, form, structure, site observations and assessment on whether the tree will be affected by proposed development footprint, and if so, what are the recommended mitigation measure to construction impact on trees. This tree assessment report will then serve as record of pre-development tree condition, and the Arborist will have to refer to this report as benchmark when performing monthly monitoring for trees.

Tree pruning such as crown cleaning, formative pruning, structural pruning, or crown thinning should be the first line of mitigation measures. Tree Support Systems such as Tree Guying and Root Anchoring must be considered if the tree is deemed to be susceptible to wind throw.

12.4.3. Tree Protection Zones

While the design of new residential area doesn't allow retention of large trees within most of the construction footprint, it is possible to retain large trees that fall either (1) inside a footprint that can afford flexibility in location or (2) outside of construction footprint but within areas with other construction needs. For example, manhole or equipment storage site can be shifted if a native mature tree was found within or at the border of such site. A TPZ is an area demarcated to protect individual trees, so as to minimize the impacts of construction activities (including root damage, mechanical trunk damage, damage due to soil compaction, etc) on the tree. NParks (2018) has included some guidelines on Tree Protection Zones in their Guidelines on Greenery Provision and Tree Conservation for Developments.

TPZ size varies depending on tree size (Table 12-7). In general, the remaining space should be sufficient for implementation of design and required infrastructure. Shall the Contractor require ad-hoc space in the midst of construction, the area should be surveyed for native trees to be retained on site and native saplings to be salvaged to on-site nursery before any clearance. If any materials spill into TPZ, the spillage should be cleaned up immediately and the Arborist must be informed. The Contractor shall notify Arborist immediately if trees to be retained are damaged. If the tree suffers from

substantial damage as determined by the Arborist, the Contractor should replace the tree of the same species and size.

Table 12-7 TPZ size required for different girth range

Girth	Recommended TPZ (radius)
<0.5m	1 m
>0.5m but less than 1m	2 m
>1m but less than 1.5m	3 m
>1.5m but less than 2m	4 m
>2m	5 m
Fig trees and Trees with Critically Endangered status	Prescribed individually by Arborist on a case-by-case basis

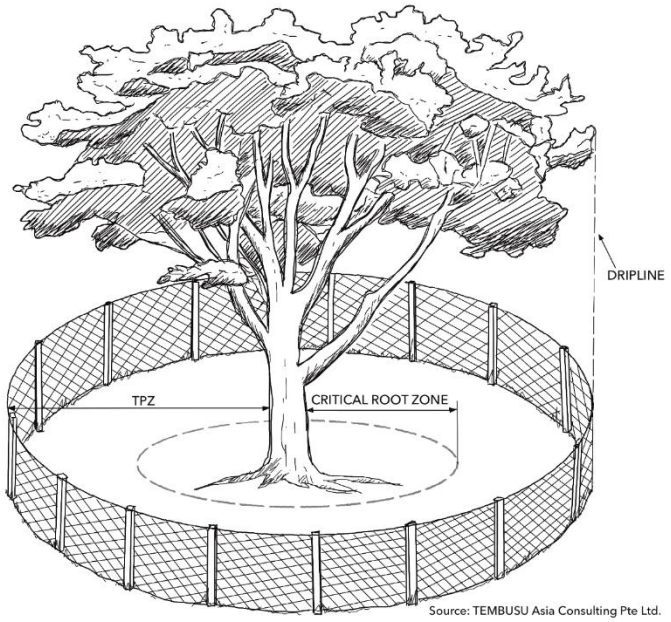


Figure 12.12. Tree Protection Zone Diagram

The following specifies guidelines for construction activities within and outside the TPZ, extracted from NParks (2018).

Inside TPZ

- There must be no excavation, raising or lowering of soil level, compaction or any form of construction activities including temporary works within the hoarded area.
- Dumping of debris, excavated materials and/or storage of construction materials and equipment are not allowed within the TPZ.
- The demolition of drains, structures within the TPZ should be carried out manually and backfilled with Approved Soil Mixture (ASM) immediately.

- Trees are to be watered regularly if rainfall is inadequate.
- Trees are to be fertilised if soil tests or deficiency symptoms indicate they are nutrient stressed.

Outside TPZ

- If major roots are encountered during excavation, the applicant may like to seek advice from a Certified Arborist, as cutting of major roots may affect the stability of the tree. Where possible, alternative proposals should be explored to avoid the need to cut the roots.
- In cases where the trees are managed by NParks (e.g., trees within the park connector planting verge), or are required by NParks to be conserved (e.g., trees with girth >1.0m within TCA or vacant land), approval from NParks must be obtained before the major root can be cut. If approval is granted by NParks to cut the roots, this must be done with a clean cut using a chainsaw.
- All building debris and chemical waste should not be burned or buried within green verges on the site.

12.4.4. Tree Felling Within Forested Areas

Before felling trees, the Arborist must ensure native saplings have already been tagged, identified, and transplanted into on-site nursery. The Arborist must also survey, identify, and confirm the trees to be protected in the surrounding area and establish a tree felling protection distance based on site condition and tree crown spread.

The trees to be felled shall be inspected for any fauna as per guidelines provided in wildlife management plan (Section 12.3). Such trees will be marked with red & white tape and no tree felling operation shall be carried out within 5 m from the said tree until further instruction.

Before commencing tree felling works, the supervisor, banksman, and foreman shall scout the area a final time to ensure that the tree felling protection zone is clear of human activities, while fauna specialist will inspect the tree felling protection zone if the site is free of wildlife activities. Once the areas are cleared, the banksman should signal the excavator operator to commence work for trees felling. The excavator operator should first clear off the shrubs and small trees (<5 m height) to create a clear line of sight for the whole area and to keep away blind spot areas which are blocked by small trees or tall shrubs. The excavator operator shall operate cautiously and fell all small trees and shrubs in a controlled manner, aware of the location of the other trees to be protected.

When opening is completed, the excavator operator should clear off small trees and shrubs along the path into the site so as to demark the area that they are supposed to work within. When the paths are cleared, the operator should then move inward to fell trees within the area. If the operator faces a tree with height between 5 and 7 m, they should clear off shrubs in the surrounding area so that the foreman can move closer to the tree. The recommended tree cutting method should be the notch cut (Figure 12.13). The foreman shall determine the direction of falling and ensure the tree does not land on any property, cause injury, or damage nearby Trees to be Protected. To avoid trees leaning to an unintended direction when performing a third cut, the excavator should

assist to prevent fall back and guide the tree to fall into the intended direction. Once the tree has been felled, the tree cutter shall cut the tree trunk into shorter lengths for easier loading during clearing of the debris from site.

If the tree has a height greater than 7 m, the tree height has to be reduced by using a lorry crane to perform crown reduction first. Before the lorry crane can enter the site, the Contractor has to prepare proper access for the lorry crane to enter the site and access the tree location. The Contractor must ensure that the access ground is firm enough to allow the lorry crane to deploy its outrigger. When the access is ready, the Contractor will then mobilize the lorry crane to enter the site to reduce tree height to 7 m in order to adopt the notch cut method for trees less than 7 m in height.

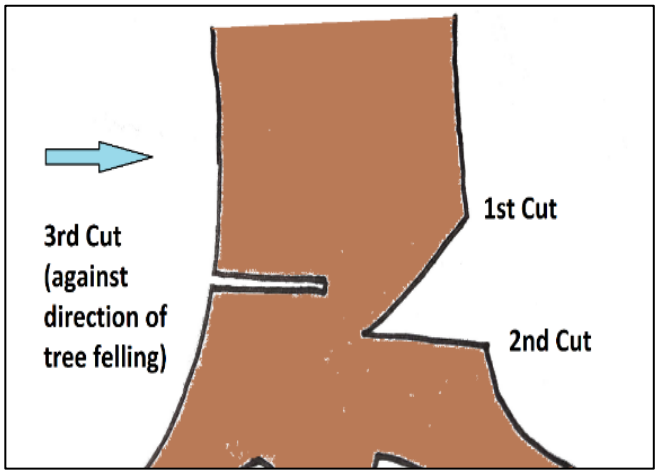


Figure 12.13 Illustration of a notch cut

12.5. Lighting Management Plan (LMP)

A Lighting Management Plan (LMP) shall be developed as part of the Construction EMMP as recommended in section 4.7.1 and 9.3.1. This section provides items to be covered in the LMP.

12.5.1. Purpose

The purpose of LMP shall be:

- Provide guidance for construction lighting to reduce impacts of artificial lighting at night (ALAN) on the natural environment;
- Provide details on light utilisation on site, including the approximate location and specification of each lighting unit; and
- Recommend light mitigation measures that are to be implemented on the site.

12.5.2. General Lighting Management Principles

Based on the international practices, following four lighting management principles are to be taken into consideration while formulating the LMP during construction phase.

1. Additional lighting is to be installed only when it is needed

Given the proximity of the project site to forested areas, the ALAN are to be installed only when it is determined that potential safety hazards from the project activities can

be mitigated with the use of ALAN.

2. ***Leverage adaptive controls to minimise lighting usage for specific tasks***
   In light of the schedule of project activities, ALAN usage must be planned in advance to minimise the lighting duration (i.e., minimum number of nights/hours required) and intensity required to complete the works in an area. Adaptive controls (e.g., automatic switches, motion sensors, timers) are to be deployed where appropriate and feasible to limit the ALAN's duration, intensity, and/or extent.

3. ***Additional lighting is to be designed to reduce beam spread***
   ALAN are to be directed inward the project site and downward so that only the objects or areas intended are lighted. The lightings are to be shielded and installed at the appropriate height to avoid any spills into the surroundings.

4. ***Use appropriate lightings and equipment in the project site***
   ALAN with long wavelength (defined as above 580 nm, e.g., amber/orange light) must be used wherever possible to reduce disturbance to sensitive animals. Usage of lightings with short wavelength (defined as below 500 nm, e.g., blue and ultra-violet light) has to be reduced with the sources filtered as much as feasible when used. Moreover, the construction equipment deployed in the project site must have non-reflective, dark-coloured surface as far as practicable.

12.5.3. Lighting Control Measures

The LMP shall include following lighting control measures to be implanted at the project site.

- Spatial layout of lighting to be utilised in project site
- Designs of lighting utilised – including height and shielding design
- Specifications of lighting utilised – lighting colour, spectrum, and brightness level
- Additional measures in place in the event that white or non-shielded lighting is required
- Implementation monitoring of mitigation measures

12.6. Biodiversity Monitoring Requirements

Specific monitoring requirements for biodiversity are detailed in this section. The other monitoring requirements for physical parameters are presented in Table 12-9.

12.6.1. Fauna Monitoring

There should be regular checks to ensure that the implementation of mitigation measures for fauna protection are in place and effective in the mitigation of impacts. Sensitive biodiversity should also be monitored to ensure that their presence has not been adversely affected by the works. The following section outlines visual site inspection and aquatic monitoring recommendations.

Visual Site Inspection
Monthly inspections of hoarding surrounding the worksite:

- There should be no clearance of vegetation outside the hoarding boundary. Additionally, hoarding should be implemented with no gaps between, to ensure that animals are not able to enter the site. Specifications for hoarding should also follow directives from NParks.

Monthly inspection of habitats:

- Besides forested areas immediately surrounding the hoarding, visual inspections should also be made of sensitive habitats, especially the stream within the proposed nature park area. There should be no visible impacts to the stream, including, but not limited to, loss of vegetation, siltation, visible increased sedimentation or erosion, presence of oil, etc.

12.6.2. Flora Monitoring

Due to the presence of many plant species of conservation value within and around the project site, there should be regular checks to ensure that the implementation of mitigation measures for flora and arboriculture protection are in place and effective in the mitigation of impacts. The following section outlines monitoring recommendations for flora protection.

For the monitoring of flora, the flora specialist and arborist should have access to the documents listed in Section 12.4.2.

Monitoring of Retained Trees

During the construction stage, the Arborist shall also conduct monthly inspections of trees to be protected. The monthly inspection report will cover 2 main aspects: (i) Current tree health and (ii) The TPZ condition. Table 12-8 below presents criteria to be reflected in the monthly inspection report. Photos of each tree are to be included in the monthly inspection report. In addition, past or current maintenance activities will be reflected in the monthly inspection report (such as Last Tree Pruning Date) during the development period.

Table 12-8 Parameters to take note during monthly tree inspections

Tree Health	TPZ Condition
Foliage colour (Normal, Chlorotic, Necrotic)	TPZ barriers installed/good condition
Foliage density (Normal, Sparse)	Evidence of illegal encroachment
Leaf size (Normal, Small)	Evidence of damage to tree
Epicormic shoots (Yes, No)	Evidence of toxic splash
Twig dieback (Yes, No)	Evidence of illegal compaction
Wound wood roll development (Good, Average, Poor, None)	Evidence of materials storage
Vigour (Good, Average, Poor)	Evidence of machinery, equipment and vehicle storage
Pests/Diseases (Yes, No)	

Monitoring of Nursery Plants

Regular monitoring of salvaged plants in the nursery should be conducted on a monthly basis. Monitoring for tree health should follow the parameters indicated in Table 12-8. Additionally, it is necessary to ensure that the regime presented in Table 12-6 have been effectively implemented. Every three months, a tally of the survivability of the salvaged plants should be conducted.

12.6.3. Water Quality Monitoring

Given the importance of good water quality in the maintenance of healthy aquatic habitats, in-situ and ex-situ surveys of water quality in the stream habitat should be conducted. The points, methods used, and parameters measured, should closely follow what was studied in this EIA, and monitoring should take place on a monthly basis during the construction phase. Water quality parameters should be compared to the baseline to ensure that there are no major changes in water quality.

12.7. Environmental Monitoring Plan

Table 12-9 provides the overview of recommended environmental monitoring plan and EMMP measures for this project which is to be incorporated into the EMMP by the Contractor. The environmental monitoring locations are to be finalised by EMMP team during EMMP formulation in consultation with relevant stakeholders.

Table 12-9 Recommended Environmental Monitoring Plan for construction phase

Monitoring Category	Impact	Monitoring Parameters	Monitoring Method	Location	Standards / Criteria	Time / Duration / Frequency	Reporting	Implementa-tion	Supervision
Biodiversity Monitoring • Avoiding clearance of vegetation outside working boundaries • Minimization of disturbance to sensitive species • Minimization of disturbance to sensitive habitats • Avoiding human wildlife conflict	<u>On-site Visual and Compliance Monitoring</u>								
	Habitat Loss and Degradation	• Hoarding to be erected prior to vegetation clearance to demarcate working boundaries • Successful reinstatement of habitats upon work completion where possible • Retain vegetation within the proposed nature park area	Visual monitoring Compliance check Water quality monitoring	Entire project site (near / within forested area)	Proper installation of temporary hoarding/ barriers Absence of vegetation clearance outside working boundaries	Fortnightly during construction phase	Monthly Environmental Performance Report	Contractor/ EMMP In-charge Ecologist Arborist	HDB/ Superintending Officer (SO)
	Species Mortality	• Properly designated Tree Protection Zones (TPZ) prior to construction • Visual inspection of trees and holes for nesting birds prior to felling • Directional clearance of vegetation • Translocation of identified plant species • Translocation of targeted animal species • Daily checks of ECM nets for entrapped fauna	Visual monitoring Compliance check	Entire project site (near / within forested area)	Proper TPZ installation Retention of tree health Absence of mechanical damage on trees Absence of nesting birds Absence of large mammal species Absence of entrapped fauna	Prior to vegetation clearance (for wildlife translocation and fauna inspection) Monthly during construction phase Daily for fauna entrapment	Monthly Environmental Performance Report	Contractor/ EMMP In-charge Ecologist Arborist	HDB/ SO
	Human-wildlife Conflict	• Briefing to on-site workers on dos and don'ts, as well as notes on safety. • Areas are to be demarcated for food consumption and storage.	Visual monitoring Compliance check	Entire project site (near forested area)	No injuries due to wild animals	Fortnightly during construction phase	Monthly Environmental Performance Report	Contractor/ EMMP In-charge Ecologist	HDB/ SO
Noise Monitoring	<u>On-site Visual and Compliance Monitoring</u>								

Monitoring Category	Impact	Monitoring Parameters	Monitoring Method	Location	Standards / Criteria	Time / Duration / Frequency	Reporting	Implementa-tion	Supervision
• Minimization of biodiversity disturbance due to construction noise • Minimization of nuisances to human due to construction noise	Disturbance to biodiversity and human due to construction noise	• Noise barriers around construction work areas • Utilization of quieter equipment and vehicles with low noise levels • PPE use by construction personnel at all times while on the construction site	Visual monitoring Compliance check	Entire project site	Environmental Protection and Management (Control of Noise at Construction Sites) 2008	Monthly during entire construction phase	Monthly Environmental Performance Report	Contractor/ EMMP In-charge ECO	HDB/ SO
	<u>On-site Noise Monitoring</u>								
	Noise generated from construction work	• Leq 12 hrs • Leq 1 hr Leq 5 mins	Sound level meter	Entire project site	Environmental Protection and Management (Control of Noise at Construction Sites) 2008	Continuous (24x7) boundary noise monitoring During entire construction phase	Monthly Environmental Performance Report	Contractor/ EMMP In-charge ECO	HDB/ SO
Water Quality Monitoring • Minimization of impact to waterbodies due to contaminated site run-off • Minimization of impact to terrestrial habitats due to erosion of topsoil	<u>On-site Visual and Compliance Monitoring</u>								
	ECM non-compliance	• Verify implementation of ECM Plan • Perimeter cut-off drains, perimeter silt fence, silt traps, sedimentation basin and silt treatment system	Visual monitoring Compliance check ECM checklist	Construction area with earthworks	ECM Plan designed by a Qualified Erosion Control Professional (QECP)	Daily compliance monitoring During entire construction phase	Monthly Environmental Performance Report	Contractor/ EMMP In-charge ECO QECP	HDB/ SO
	<u>On-site Water Quality Monitoring</u>								
	ECM discharge (sediment runoff)	• Total Suspended Solids (TSS)	Implementation of TSS monitor and CCTV including a Silty Imagery Detection System (SIDS)	Final ECM discharge points	Less than 50 mg/L for TSS Sewerage and Drainage (Surface Water Drainage) Regulation 2007	Real-time continuous during entire construction phase	TSS report Monthly Environmental Performance Report	Contractor/ EMMP In-charge ECO	HDB/ SO

Monitoring Category	Impact	Monitoring Parameters	Monitoring Method	Location	Standards / Criteria	Time / Duration / Frequency	Reporting	Implementa-tion	Supervision
	Contamination of water resources through trade effluent discharge	• All parameters identified in EPM (Trade Effluent) Regulations for Controlled Watercourse • Additional parameters: Aluminium, Conductivity, Turbidity, Total nitrogen, Total phosphorous, Total organic carbon, Ammonia, Enterococcus	Ex-situ monitoring	At every discharge outlet	EPM (Trade Effluent) Regulations for Controlled Watercourse	Monthly during construction phase	Monthly Environmental Performance Report	Contractor/ EMMP In-charge ECO	HDB/ SO
	Degradation of stream habitat (Construction stage monitoring)	• All parameters identified in EPM (Trade Effluent) Regulations for Controlled Watercourse	In-situ and ex-situ monitoring	Same locations as per baseline surveys at Stream during construction phase	EPM (Trade Effluent) Regulations for Controlled Watercourse Baseline results	Monthly during construction phase	Monthly Environmental Performance Report	Contractor/ EMMP In-charge ECO	HDB/ SO
Air Quality Monitoring • Minimization of human health & biodiversity impacts due to dust pollution • Minimization of human health impacts due to exhaust emissions	<u>On-site Visual and Compliance Monitoring</u>								
	Fugitive dust emissions	• Verify implementation of dust suppression plan • Watering to reduce dust emissions from exposed areas • Washing bay • Implementation of vehicular speed limit • Covered stockpiles • Use of PPE (face mask) by construction personnel	Visual monitoring Compliance check	All construction areas	Approved dust suppression plan	During entire construction phase	Monthly Environmental Performance Report	Contractor/ EMMP In-charge	HDB/ SO
	Exhaust emission from construction machineries operations	• Maintenance frequency of vehicles and machineries	Visual monitoring Compliance check	All construction areas	No visible exhaust plume, dark smoke etc.	During entire construction phase	Monthly Environmental Performance Report	Contractor/ EMMP In-charge	HDB/ SO

Monitoring Category	Impact	Monitoring Parameters	Monitoring Method	Location	Standards / Criteria	Time / Duration / Frequency	Reporting	Implementa-tion	Supervision
	<u>On-site Air Quality Monitoring</u>								
	Particulate matter emission from construction activities	• $PM_{2.5}$ and PM_{10}	Dust sampler	Entire project site	Singapore Ambient Air Quality Targets	24hr (1 day) continuous monitoring Once a Month	Monthly Environmental Performance Report	Contractor/ EMMP In-charge	HDB/ SO
Light Impact Monitoring • Minimization of light pollution impacts on ecological processes	<u>On-site Visual and Compliance Monitoring</u>								
	Light pollution affecting sensitive species	• Appropriate positioning of lights • Turn off all unnecessary lights outside working hours	Visual monitoring Compliance check	Entire project site (near forested area)	Absence of heavy nightworks All artificial lights to be downward facing, turned away from forested areas	During entire construction phase	Monthly Environmental Performance Report	Contractor/ EMMP In-charge Ecologist	HDB/ SO
Vector Monitoring • Minimizing the impacts due to increase in vector related diseases	<u>On-site Visual and Compliance Monitoring</u>								
	Increase in the Incidence of vectors & related diseases	• Verify implementation of vector control management plan • Engagement of NEA registered vector control operator • Appointment of an in-house vector control team	Visual monitoring Compliance check	Entire project site	Vector control management plan Control of Vectors and Pesticides Act, 2002	During entire construction phase	Monthly Environmental Performance Report	Contractor/ EMMP In-charge ECO	HDB/ SO
Waste Management Monitoring • Minimizing the impacts due to improper disposal of hazardous and general waste	<u>On-site Visual and Compliance Monitoring</u>								
	Improper disposal of hazardous waste lead to land pollution	• Engagement of NEA licensed waste collector for hazardous waste • Record of waste disposal	Visual monitoring Compliance check	Entire project site	Environmental Public Health (Toxic Industrial Wastes) Regulation, 2000	During entire construction phase	Monthly Environmental Performance Report	Contractor/ EMMP In-charge ECO QECP	HDB/ SO
	Improper disposal of construction	• Verify implementation of solid	Visual monitoring	Constructi on waste	Environmental Public Health	During entire construction	Monthly Environmental	Contractor/ EMMP In-	HDB/ SO

Monitoring Category	Impact	Monitoring Parameters	Monitoring Method	Location	Standards / Criteria	Time / Duration / Frequency	Reporting	Implementa-tion	Supervision
	waste lead to land pollution	waste management plan • Engagement of NEA licensed general waste collector • Record of waste disposal	Compliance check	storage location General waste storage location	(General Waste Collection) Regulation, 2000	phase	Performance Report	charge ECO	

13. REFERENCES

AECOM. (2021). *Specialist Consultancy Services for Environmental Baseline Study at Yishun Neighbourhood 5 (Miltonia). Prepared for Housing & Development Board.*

AECOM. (2021). *Specialist Consultancy Services for Environmental Baseline Study at Yishun .* Prepared for Housing and Development Board.

AECOM. (2021). *Specialist Consultancy Services for Environmental Baseline Study at Yishun Neighbourhood 5 (Miltonia). Prepared for Housing & Development Board.*

AECOM. (2022). *Specialist Consultancy Services for Environmental Impact Study (EIS) on Yishun Neighbourhood 5 (Miltonia).*

AECOM. (2022). *Specialist Consultancy Services for Hydraulics Study at Yishun Neighbourhood 5 (Miltonia).*

Agriculture and Resource Management Council of Australia and New Zealand. (2000). Australian Guidelines for Urban Stormwater Management. Canberra, Australian Capital Territory, Australia. Retrieved from https://www.waterquality.gov.au/sites/default/files/documents/australian-guidelines-urbanstormwater.pdf

American Public Health Association. (2017). *Standard methods for the examination of water and wastewater* (23rd ed.). Washington, DC: American Public Health Association.

Australia Department of the Environment and Energy. (2019). *National Light Pollution Guidlines for Wildlife.* Australia: Australian Government.

Australian and New Zealand Environment and Conservation Council (ANZECC) & Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ). (2000). *Guidelines for Fresh and Marine Water Quality*. Retrieved from https://www.waterquality.gov.au/anz-guidelines/resources/previous-guidelines/anzecc-armcanz-2000

Baker, N., & Lim, K. (2012). *Wild Animals of Singapore: A Photographic Guide to Mammals, Reptiles, Amphibians and Freshwater Fishes* (2nd ed.). Draco Pub and Distribution, Singapore.

Bennett, V. J., & Zurcher, A. A. (2012). When Corridors Collide: Road-Related Disturbance in Commuting Bats. *The Journal of Wildlife Management, 77*(1), 93-101. doi:https://doi.org/10.1002/jwmg.467

BirdLife International. (17 5, 2022). Retrieved from http://datazone.birdlife.org/species/factsheet/103872142

Bunkley, J. P., McClure, C. J., Kawahara, A. Y., Francis, C. D., & Barber, J. R. (2017). Anthropogenic noise changes arthropod abundances. *Ecology and Evolution, 7*(9), 2977-2985. doi:10ad.1002/ece3.2698

Calderon, M. R., Almeida, C. A., González, P., & Jofré, M. B. (2019). Influence of water quality and habitat conditions on amphibian community metrics in rivers affected by urban activity. *Urban Ecosystems, 22*(4), 743-755.

Caorsi, V., Guerra, V., Furtado, R., Llusia, D., Miron, L. R., Borges-Martins, M., . . . Marquez, R. (2019). Anthropogenic substrate-borne vibrations impact anuran calling. *Scientific Reports, 9*(19456). doi:https://doi.org/10.1038/s41598-019-55639-0

Capper, N. (12, 2006). *The Effects of Suspended Sediment on the Aquatic Organisms Daphnia magna and Pimephales promelas.* Retrieved from TigerPrints: https://tigerprints.clemson.edu/cgi/viewcontent.cgi?article=1002&context=all_theses

Cash, K., & Wright, R. (2001). *Water Quality Guidelines for the Protection of Aquatic Life.* Retrieved from https://ccme.ca/en/summary-table#void

Chong, K. Y., Tan, H. T., & Corlett, R. T. (2009). *A Checklist of the Total Vascular Plant Flora of Singapore: Native, Naturalised, and Cultivated Species.* (H. T. Tan, Ed.) Singapore: Raffles Museum of Biodiversity Research, National University of Singapore. Retrieved from https://lkcnhm.nus.edu.sg/app/uploads/2017/04/flora_of_singapore_tc.pdf

Chong, K. Y., Tan, H. T., & Corlett, R. T. (2009). *A Checklist of the Total Vascular Plant Flora of Singapore: Native, Naturalised, and Cultivated Species.* (H. T. Tan, Ed.) Singapore: Raffles Museum of Biodiversity Research, National University of Singapore. Retrieved from https://lkcnhm.nus.edu.sg/app/uploads/2017/04/flora_of_singapore_tc.pdf

Chua, C. T. (2021). *Biodiversity Record: A third mature grey fig, Ficus virens, at Dover Forest*.

Çinar, M. E. (2014). Impacts of invasive alien marine species on ecosystem services and biodiversity: a pan-European review. *Aquatic Invasions, 9*(4), 391-423.

Corlett. (1991). Vegetation. In: Chia, L., Ausafur, R. & Tay, D. (eds) The Biophysical Environment of Singapore, pp. 134–154. Singapore: Singapore University Press.

Corlett, R. (1992). The Ecological Transformation of Singapore, 1819 - 1990. *Journal of Biogeography, 19*(4), 411 - 420.

Davison, G. W., Ng, P. K., & Ho, H. C. (2008). *The Singapore Red Data Book. Threatened Plants and Animals of Singapore. Second Edition.* Singapore: Nature Society (Singapore).

Davison, G. W., Ng, P. K., & Ho, H. C. (2008). *The Singapore Red Data Book: Threatened Plants and Animals of Singapore* (2nd ed.). Singapore: Nature Society (Singapore).

Department of Environment, Malaysia. (2005). *National Water Quality Standards For Malaysia.*

Federal Aviation Administration (FAA). (2006). *UFC-3-230-01.* Retrieved 1 June, 2022, from https://www.faa.gov/documentLibrary/media/advisory_circular/150-5320-5C/150_5320_5c_p2.pdf

Federal Transit Administration (FTA). (2018). *Transit Noise and Vibration Impact Assessment Manual.* John A. Volpe National Transportation Systems Center.

Fenton, M., & Bell, G. (1981). Recognition of species of insectivorous bats by their echolocation calls. *Journal of Mammalogy, 62*, 233–243.

Ferris, D. P. (20 May, 1980). Soon there will be no wild birds left... *The Straits Times*. Retrieved from https://eresources.nlb.gov.sg/newspapers/Digitised/Article/straitstimes19800520-1.2.92.7?ST=1&AT=search&k=soon%20there%20will%20be%20no%20birds%20left&QT=soon,there,will,be,no,birds,left&oref=article

Francis, C., & Barber, J. (2013). A framework for understanding noise impacts on wildlife: an urgent conservation priority. *Frontiers in Ecology and Environment*, 11(6): 305-313.

Grantz, D., Garner, J., & Johnson, D. (2003). Ecological effects of particulate matter. *Environment Internaional, 29*(2-3), 213 - 239.

Groenewoud, D., & Law, I. S. (2016). First record of greenhouse frog in Singapore. *Singapore Biodiversity Records, 2016*, 59.

Gunawan, N. S., & Noske, R. A. (2017). Nest cycle and nestling development of a pair of Changeable Hawk-Eagles Nisaetus cirrhatus in Gunung Halimun-Salak National Park, West Java. *Kukila, 20*, 39-47.

Harrelson, C. C., Rawlins, C. L., & Potyondy, J. P. (1994). *Stream Channel Reference Sites: An Illustrated Guide to Field Technique.* United States: United States Department of Agriculture: Forest Service.

Hong Kong Environmental Protection Department. (2011). *Environmental Impact Assessment Ordinance - Technical Memorandum.* Retrieved from https://www.epd.gov.hk/eia/english/legis/index3.html

Hughes, A. C., Satasook, C., Bates, P. J., Soisook, P., Sritongchuay, T., Jones, G., & Bumrungsri, S. (2011). Using echolocation calls to identify Thai bat species: Vespertilionidae, Emballonuridae, Nycteridae and Megadermatidae. *Acta Chiropterologica, 13*(2), 447-455.

Institute of Air Quality Management (IAQM). (2014). *Guidance on the Assessment of Dust from Demolition and Construction.* Retrieved from https://iaqm.co.uk/text/guidance/construction-dust-2014.pdf

International Union for Conservation of Nature and Natural Resources (IUCN). (March, 2020). *The IUCN Red List of Threatened Species*. Retrieved 19 March, 2020, from http://www.iucnredlist.org

International Union for Conservation of Nature and Natural Resources (IUCN). (2021). *The IUCN Red List of Threatened Species*. Retrieved from http://www.iucnredlist.org

Jain, A. J., Khew, S. K., Cheong, W. G., & Webb., E. L. (2018). Butterfly extirpations, discoveries and rediscoveries in Singapore over 28 years. *Raffles Bulletin of Zoology, 66*, 217 - 257.

Khew, S. K. (2015). *A field guide to the butterflies of Singapore. .* Ink On Paper Communications Pte Limited.

Kight, C. R., & Swaddle, J. P. (2011). How and Why Environmental Noise Impacts Animals: An Integrative Mechanistic Review. *Ecology Letters, 14*, 1052-1061. doi:10.1111/j.1461-0248.2011.01664.x

Kraus, F., & Campbell, E. W. (2002). Human-mediated Escalation of a Formerly Eradicable Problem: The Invasion of Caribbean Frogs in the Hawaiian Islands. *Biological Invasions, 4*(3), 327 - 332.

Lane, D., Kingston, T., & Lee, B.-H. (2006). Dramatic decline in bat species richness in Singapore, with implications for Southeast Asia. *Biological Conservation, 131*, 584–593.

Lee, S., Ting, W., Lian, F., Khoo, Y., & Kwek, L. (2021). GE3255 Aquatic, Coastal and Riparian Ecosystems: Conserving and Restoring the Dover Forest Stream. Wetland Delineation and Recommendations for Conserving and Restoring Dover Forest Stream 1: Appendix. *NUS Report*, 45.

Legislation Division of the Attorney-General's Chambers. (n.d.). *Singapore Statutes Online*. Retrieved June, 2021, from Singapore Statutes Online: https://sso.agc.gov.sg/

Legislation Division of the Attorney-General's Chambers. (n.d.). *Singapore Statutes Online*. Retrieved January, 2020, from Singapore Statutes Online: https://sso.agc.gov.sg/

Lewanzik, D., & Voigt, C. C. (10 April, 2014). Artificial light puts ecosystem services of frugivorous bats at risk. *Journal of Applied Ecology, 51*(2), 388-394. doi:https://doi.org/10.1111/1365-2664.12206

Lindsay, S., Middleton, D., Ho, B., Chong, K., Turner, I., Ibrahim, A., . . . Er, K. (2022). Flora of Singapore: Checklist and bibliography. *Gardens' Bulletin Singapore, 74*(Suppl. 1), 3-860. doi:10.26492/gbs74(suppl.1).2022-01

Longcore, T., & Rich, C. (2004). Ecological Light Pollution. *Frontiers in Ecology and the Environment/ Volume 2, Issue 4*.

Michelle, L., Soupir, S. M., & Mitchem, J. C. (February, 2009). *Journal of the American Water Resources Association, 45*, 110-122.

Ministry of Natural Resources and Environment of Vietnam. (12 December, 2011). *Circular*

No. 43/2011/TT-BTNMT of December 12, 2011, providing for national technical standards on environment. Retrieved 27 August, 2020, from Legal document search & search system: https://vanbanphapluat.co/circular-no-43-2011-tt-btnmt-providing-for-national-technical-standards

Monteagudo, A. B.-L. (2016). Vascular Plants (Non-epiphytes). In T. H. Larsen (Ed.), *Core Standardized Methods for Rapid Biological Assessment* (pp. 9-24).

Munna, G., Alam, J., Ahmed, J., & Al Mamun, A. (2018). Evaluating Discharge Capacity of Major Chara's of Sylhet City Using GIS. *Journal of Water Resource and Protection, 10*, 167-181.

National Environment Agency (NEA). (2016). *Technical Guideline for Land Traffic Noise Impact Assessment.* Retrieved from https://www.nea.gov.sg/docs/default-source/our-services/technical-guidelines-for-noise-impact-assessment-.pdf

National Environment Agency (NEA). (2018). *Technical Guideline on Boundary Noise Limits for Air Conditioning and Mechanical Ventilation Systems in Non-Industrial Buildings.* Retrieved from https://www.nea.gov.sg/docs/default-source/default-document-library/technical-guideline-on-boundary-noise-limit-for-air-conditioning-and-mechanical-ventilation-systems-in-non-industrial-buildings---feb-2018.pdf

National Environment Agency. (20 February, 2020). *Allowable Limits for Trade Effluent Discharge to Watercourse or Controlled Watercourse*. Retrieved from The National Environment Agency: https://www.nea.gov.sg/our-services/pollution-control/water-quality/allowable-limits-for-trade-effluent-discharge-to-watercourse-or-controlled-watercourse

National Environment Agency. (15 February, 2021). *Air Quality*. Retrieved from The National Environment Agency: https://www.nea.gov.sg/our-services/pollution-control/air-pollution/air-quality

National Parks Board. (2021). *Biodiversity Impact Assessment (BIA) Guidelines.* National Parks Board, Singapore.

National Parks Board. (25 September , 2021). *National Parks Board*. Retrieved 10 October, 2021, from Species List (Red Data Book List): https://www.nparks.gov.sg/biodiversity/wildlife-in-singapore/species-list

Neo, L.; Yee, A. T.; Chong, K. Y.; Yeo, H. H.; Tan, H. T. (2013). The vascular plant flora of Dover Forest. *Nature in Singapore*(6), 73-83.

Ng, S. C., Lai, H., Cremades, M., Lim, M. T., & Tali, S. B. (2011). Breeding observations on the Oriental pied hornbill in nest cavities and in artificial nests in Singapore, with emphasis on infanticide-cannibalism. *The raffles bulletin of Zoology*(24), 15-22.

Ngiam, R. W., & Cheong, L. F. (2016). The dragonflies of Singapore: An updated checklist and revision of the national conservation statuses. *Nature in Singapore, 9*, 149 - 163.

O'Dempsey T, E. M. (2014). *Nature contained: Environmental histories of Singapore.* NUS Press.

Ogden, L. J. (2002). Summary Report on the Bird Friendly Building Program: Effect of Light Reduction on Collision of Migratory Birds. *Special Report for the Fatal Light Awareness Program (FLAP)*, 2 - 16.

Ortiz-Santaliestraa, M. E.-B. (15 January, 2012). Density effects on ammonium nitrate toxicity on amphibians. Survival, growth. *Aquatic Toxicology*, 170 - 176. doi:10.1016/j.aquatox.2012.01.010

Ou Yang, X. (2011). *Galeopterus variegatus - Malayan Colugo*. Retrieved from Wiki.nus: https://wiki.nus.edu.sg/display/TAX/Galeopterus+variegatus+-+Malayan+Colugo#FootnoteMarker8-1

Pastakia, C., & Barber, J. R. (1998). The Rapid Impact Assessment Matrix (RIAM) for EIA. *Environmental Impact Assessment Review*, 461-482.

Peh, K. S. (2010). Invasive species in Southeast Asia: the knowledge so far. *Biodiversity and Conservation, 19*(4), 1083 - 1099.

PHILMINAQ. (2014). Water Quality Criteria and Standards for Freshwater and Marine Aquaculture. *Mitigating Impact from Aquaculture in The Philippines*. Retrieved from http://aquaculture.asia/files/PMNQ%20WQ%20standard%202.pdf

PlanIT Geo. (2021). *TreePlotter Software Suite*. Retrieved 5 July, 2021, from https://planitgeo.com/treeplotter/

Poonswad, P. C. (1999). Factors influencing the reproduction of Asian Hornbills. In N. &. Adams (Ed.), *Proc. 22 Int. Ornithol. Congr.* (pp. 1740 - 1755). Durban: Johannesburg: Birdlife South Africa.

Pottie, S., Lane, D., Kingston, T., & Lee, B.-H. (2005). The microchiropteran bat fauna of Singapore. *Acta Chiropterologica, 7*(2), 237-247.

Public Utilities Board (PUB). (2018). *Code of Practice on Surface Water Drainage (PUB COP)* (7th ed.).

Public Utilities Board (PUB). (2018b). *Engineering Procedures for ABC Waters Design Features.*

Ramachandra, T., Nupur, N., Vinay, S., & A., B. H. (26-27 September, 2014). IEEE Global Humanitarian Technology Conference - South Asia Satellite (GHTC-SAS). doi:10.1109/GHTC-SAS.2014.6967560

Rheindt, F. E., Christidis, L., Norman, J. A., Eaton, J. A., Sadanandan, K. R., & Schodde, R. (2017). Speciation in Indo-Pacific swiftlets (Aves: Apodidae): integrating molecular and phenotypic data for a new provisional taxonomy of the Collocalia esculenta complex. *Zootaxa, 4250*(5), 401-433.

Schnitzler, H.-U., Moss, C., & Denzinger, A. (2003). From spatial orientation to food acquisition in echolocating bats. *TRENDS in Ecology and Evolution, 18*(8), 386-394.

Secretariat, Association of Southeast Asian Nations (ASEAN). (2005). *ASEAN Strategic Plan of Action on Water Resources Management.* ASEAN Secretariat: Jakarta, Indonesia.

Singapore Birds Project. (2022). *Oriental Magpie-Robin*. Retrieved from Birds of Singapore: https://singaporebirds.com/species/oriental-magpie-robin/

Singapore Birds Project. (2022). *Yellow-vented Bulbul*. Retrieved from Birds of Singapore: https://singaporebirds.com/species/yellow-vented-bulbul/

Singapore Standard SS602. (2014). *Code of Practice for Noise Control on Construction and Demolition Sites.*

Swaddle, J., & Page, L. (2007). High levels of environmental noise erode pair preferences in zebra finches: implications for noise pollution. *Animal Behaviour, 74*, 363–368. doi:10.1016/j.anbehav.2007.01.004

T. Y. Lin International Pte. Ltd. (2018). *CONTRACT J1002: ADVANCE ENGINEERING CONSULTANCY SERVICES FOR THE PROPOSED JURONG REGION LINE MAINLAND AND DEPOT (CONTRACT 2).* Environmental Impact Assessment Preliminary Report, Singapore.

Tan, H. T., Chou, L. M., Yeo, D. C., & Ng, P. K. (2007). *The Natural Heritage of Singapore (2nd edition).* Singapore: Prentice Hall/Pearson Education South Asia Pte Ltd.

Tan, P. Y., Wang, J., & Sia, A. (2013). Perspectives on five decades of the urban greening of Singapore. *Cities, 32*, 24-32.

Tan, S. K., Lee, Y. L., & Ng, T. H. (2013). The status of the apple snail Pila scutata (Gastropoda: Ampullariidae) in Singapore. *Nature in Singapore, 6*, 135-141.

Tang, H. B., Wang, L., & Hämäläinen, M. (2010). *A photographic Guide to the Dragonflies of Singapore.* Singapore, Singapore: The Raffles Museum of Biodiversity Research.

Teo, R. C. (2018). First record of the long-winged tomb bat in Singapore. *Singapore Biodiversity Records. NUS.*, 59-61.

Thein, S. J. (1979). A flow diagram for teaching textureby-feel analysis. *Journal of Agronomic Education 8*, 54-55.

Tippler, C., Wright, I. A., Davies, P. J., & Evans, C. R. (2018). Are Odonata nymph adversely affected by impaired water quality in urban streams. *Austral ecology, 43*(8), 890-902.

Trimble. (2020). *GNSS Status*. Retrieved 6 July, 2021, from Trimble: https://apps.apple.com/us/app/gnss- status/id932189198

Trimble. (2021). *Trimble R2: Integrated GNSS System*. Retrieved 5 July, 2021, from Trimble: https://geospatial.trimble.com/products-and-solutions/trimble-

Turner , J. G., Parrish, J. L., Hughes, L. F., Toth, L. A., & Caspary, D. M. (2005). Hearing in Laboratory Animals: Strain Differences and Nonauditory Effects of Noise. *Comp Med, 55*(1), 12-23. Retrieved from https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3725606/

United Nations Economic Commission for Europe (UNECE). (1994). Standard Statistical Classification of Surface Freshwater Quality for the Maintenance of Aquatic Life. *Readings in International Environment Statistics*.

United States Environmental Protection Agency (USEPA). (2017). *Water Quality Standards Handbook*. Retrieved from https://www.epa.gov/wqs-tech/water-quality-standards-handbook

UnTourist Singapore. (July, 2015). Retrieved from https://untouristsingapore.wordpress.com/2014/02/16/seletar-reservoirs-that-rocket-ship-lookout-tower/

Vuillaume, B., Valette, V., Lepais, O., Grandjean, F., & Breuil, M. (2015). Genetic evidence of hybridization between the endangered native species Iguana delicatissima and the invasive Iguana iguana (Reptilia, Iguanidae) in the Lesser Antilles: management implications. *PloS One, 10*(6). Retrieved from https://doi.org/10.1371/journal.pone.0127575

Wang, L., & Hails, C. (2007). An annotated checklist of the birds of Singapore. . *Raffles Bulletin of Zoology, Supplement no. 15.*, 179.

Wentworth, C. K. (1922). A Scale of Grade and Class Terms for Clastic Sediments. *The Journal of Geology Vol. 30, No. 5*, 377-392.

Wong, K. M., & Ganesan, S. K. (October, 2019). The plant diversity of Singapore. *1*, 37–46. doi:https://doi.org/10.26492/fos1.2019-0

Wong, K., Turner, I., Wang, R. J., Harwood, R., Seah, W. W., Ng, X. Y., . . . & Mahyuni, R. (2019). Rubiaceae. In *Flora of Singapore Volume 13* (pp. 1-358).

World Health Organization (WHO). (n.d.). *Guidelines for drinking-water quality.*

Yang, C. (2018). *Five new species of fauna recorded for Singapore on Pulau Ubin*. Retrieved 15 October, 2021, from https://www.straitstimes.com/singapore/environment/five-new-species-of-fauna-recorded-for-singapore-on-pulau-ubin

Yee, A. T., Chong, K. Y., Neo, L., & Tan, H. T. (2016). Updating the classification system for the secondary forests of Singapore. *Raffles Bulletin of Zoology*, 19.

Yee, A. T., Corlett, R. T., Liew, S. C., & Tan, H. T. (2011). The vegetation of Singapore—an updated map. *Gardens' Bulletin Singapore, 63*(1&2), 205-212.

Yong, D. L., Lim, K. S., Lim, K. C., Tan, T., Teo, S., & Ho, H. C. (2017). Significance of the globally threatened Straw-headed Bulbul Pycnonotus zeylanicus populations in Singapore: a last straw for the species? *Bird Conservation International, 28*(1), 133-

144. doi:10.1017/S0959270917000028

APPENDIX A

Impact Assessment Criteria

Table A-1. Prioritisation of receptor sensitivity to each environmental aspect, adapted from Table 6-1 in the previous study (AECOM, 2022)

Environmental Aspect	Receptor Sensitivity		
	Priority 3 (lowest)	**Priority 2**	**Priority 1 (highest)**
Biodiversity	Flora, fauna, and habitats of low ecological value (i.e., Scrubland and herbaceous vegetation, Waste woodland, Managed vegetation)	Flora, fauna, and habitats of moderate ecological value (i.e., Young secondary forest)	Flora, fauna, and habitats of high ecological value (i.e., Abandoned-land forest, Swampy scrubland and herbaceous vegetation, Streams)
Hydrology	**Ecological Receptors**		
	• Habitats and its biocenosis that are of low or medium ecological value • Habitats and its biocenosis that will not be disturbed due to changes in existing hydrology	• Habitats and its biocenosis of high or medium ecological value that could be flooded or drained temporarily due to changes in existing hydrology which would cause moderate and/ or short-term disturbances in their functioning.	• Habitats and its biocenosis of high ecological value that are highly dependent on surface water flow conditions and/ or quantities. Examples of fauna include fish, amphibians, odonates in aquatic or semi-aquatic habitats. • Habitats and its biocenosis of high ecological value which would be permanently impacted by changes in surface water flow conditions
	Human Receptors		
	• Humans whose activities would not be altered or prevented • Humans whose safety would not be compromised	• Humans whose activities would be temporarily altered or prevented • Humans whose safety would be moderately compromised	• Humans whose activities would be permanently altered or prevented • Humans whose safety would be largely compromised
	Socio-Economic Receptors		
	Water-compatible developments (e.g. flood control structures, docs, navigation facilities, water-based recreational land, open space facilities)	Temporarily occupied developments and developments for non-essential services (e.g. developments used for leisure activities, warehousing, commercial, industrial and non-residential institutions, land and buildings used for agriculture, transport and infrastructure)	Permanently inhabited developments (e.g. dwelling houses, public and private residential developments) and developments for essential services (e.g. ambulance, fire stations, hospitals, essential infrastructure such as primary transport and utilities distribution)
Surface Water Quality	**Ecological Receptors**		
	• Aquatic or semi-aquatic habitats and its biocenosis of low ecological value with high	Aquatic or semi-aquatic habitats and its biocenosis of medium ecological value with medium to high tolerance to changes in	Aquatic or semi-aquatic habitats and its biocenosis of high ecological value with low tolerance2 to changes in surface water

Environmental Aspect	Receptor Sensitivity		
	Priority 3 (lowest)	**Priority 2**	**Priority 1 (highest)**
	tolerance to changes in surface water quality • All terrestrial habitats and its biocenosis	surface water quality	quality
	Human Receptors		
	• Humans that will not experience nuisance nor develop health issues due to the change in surface water quality	• Humans who may experience nuisance caused by the change in surface water quality (e.g. odour), but will most likely not harm their health	• Humans who use surface water for beneficial purposes (e.g. irrigation, drinking purposes) • Humans that may come in contact with contaminated surface water which potentially could cause harm to their health (e.g. construction workers)
	Socio-Economic Receptors		
	Developments that do not use surface water for beneficial purposes (e.g irrigation, drinking purposes, industrial purposes)	Developments that use surface water for beneficial purposes (e.g irrigation, drinking purposes, industrial purposes) and do not require water of particular physico-chemical characteristics at the intake location	Developments that use surface water for beneficial purposes (e.g. irrigation, drinking purposes, industrial purposes) and require water of particular physico-chemical characteristics at the intake location
Air Quality (Construction)	**Ecological Receptors[1]**		
	• Ecological sites[2] having known sensitive communities within 20 m to 50 m of construction worksite area. • Any other ecological sites within the Study Area of 50 m.	• Flora Species or Plant Communities, and Habitats of High Ecological Value within 20 m to 50 m of construction worksite area. • Ecological sites[2] having known sensitive communities within 20 m of construction worksite area.	Flora Species or Plant Communities, and Habitats of High Ecological Value within 20 m of construction worksite area.
	Human Receptors[3]		

[1] Ecological receptors refer to any sensitive habitat affected by dust soiling. This includes direct impacts on vegetation or aquatic ecosystems of dust deposition, and the indirect impacts on fauna (e.g. on foraging habitats) if any. In terms of air quality impact assessment of this Project, only the direct impacts on flora of conservation significance or sensitive plant communities of large specimens which are the key species affected by dust deposition will be emphasized (Institute of Air Quality Management (IAQM), 2014).

[2] Ecological sites refer to any site with international statutory designation (i.e. Special Conservation Areas (SACs), Special Protection Areas (SPAs) designated internationally under the Habitats Directive (92/43/EEC)) and RAMSAR sites. Non-statutory sites (i.e. local wildlife sites) can be considered if appropriate (Institute of Air Quality Management (IAQM), 2014).

[3] Sensitive receptors for air impact assessment include residential blocks, hospitals, medical centre, schools and education and residential care home. This is according to classification made in the IAQM's guidance. Hawker centres shall also be checked.

Environmental Aspect	Receptor Sensitivity		
	Priority 3 (lowest)	**Priority 2**	**Priority 1 (highest)**
	• Public footpath, playing fields and parks within 20 m from the construction area. • All other buildings within the 350 m study boundary.	• Sensitive receptors (more than 100 receptors) between 50 m to 100 m of the construction area. • Sensitive receptors (1-100 receptor) between 20 m to 50 m of the construction area. • Office, industrial facilities, or shops (more than 10 receptors) within 20 m to 50 m of the construction area. • Office, industrial facilities, or shops (1-10 receptors) within 20 m of the construction area.	• Sensitive receptors (more than 100 receptors) within 50 m of the construction area. • Sensitive receptors (1-100 receptors) within 20 m of the construction area. • Office, industrial facilities, or shops (more than 10 receptors) within 20 m of the construction area.
Air Quality (Operational)	Commercial, religious, infrastructure, industrial	Sport and recreation areas (outdoor)	Schools and education buildings, hospitals and medical centres, nursing homes, residential buildings, ecological sensitive site
Airborne Noise[4]	**Ecological Receptors**		
	Animals that are not likely to be affected by noise.	Animals that have auditory sensory systems but do not necessarily need to vocalise during important life cycle stages.	Animals that vocalise during important life cycle stages such as courtship, territorial claims and/ or mating.
	Human Receptors		
	Other Buildings (Industrial, Commercial, Infrastructure, Sport & Recreation Areas, etc.).	Residential buildings	Schools and Education Buildings, Hospitals and Medical Centres, Nursing Homes, Religious Buildings, etc.

[4] With regard to disturbance from airborne noise, different species are likely to react differently. This may be influenced by various other factors such as how percussive the noise is (e.g. from blasting and piling), how far away the receptor is, behaviour of the fauna, and other factors such as whether the species is feeding or breeding/nesting and in particular from the complication of visual disturbance (particularly humans on foot nearby).

Table A-2. Criteria to assess impact intensity of the physical parameters, adapted from Table 6-5 in the previous study (AECOM, 2022)

Physical Parameters	Impact Intensity			
	Negligible	**Low**	**Medium**	**High**
Hydrology and flow conditions	Very minor change to existing hydrology and flow	Small scale localised changes to existing hydrology or flow	Medium scale changes to existing hydrology or flow	Major changes to existing hydrology or flow
Water Quality	No contamination or likely to be well within regulatory limits	Small scale localised contamination within regulatory limits	Medium scale contamination or just exceeds regulatory limits	Large scale contamination exceeds regulatory limits by hazardous levels
Air Quality (Construction Phase)[5]	**Earthworks**			
	-	• Total site area <2 ,500 m^2 • Soil type with large grain size (e.g. sand) • <5 heavy earth moving vehicles active at any one time • Formation of bunds <4 m in height • Total material moved <20,000t • Earthworks during wetter months	• Total site area 2,500 m^2 – 10,000 m^2 • Moderately dusty soil type (e.g. silt) • 5-10 heavy earth moving vehicles active at any one time • Formation of bunds 4 m - 8 m in height • Total material moved 20,000-100,000t	• Total site area >10,000 m^2 • Potentially dusty soil type (e.g. clay, which will be prone to suspension when dry due to small particle size) • >10 heavy earth moving vehicles active at any one time • Formation of bunds >8 m in height • Total material moved >100,000t
	Construction			
	-	• Total building volume <25,000 m^3 • Construction material with low potential for dust release (e.g. metal cladding or timber)	• Total building volume 25,000-100,000 m^3 • Potentially dusty construction material (e.g. concrete) • On-site concrete batching	• Total building volume >100, 000 m^3 • On-site concrete batching • Sandblasting
	Trackout			
	-	• <10 HDV[6] (>3.5t) outward movements in any one day • Surface material with low potential for dust release • Unpaved road length <50 m	• 10-50 HDV (>3.5t) outward movements in any one day • Moderately dusty surface material (e.g. high clay content) • Unpaved road length 50-100 m	• >50 HDV (>3.5t) outward movements in any one day • Potentially dusty surface material (e.g. high clay content) • Unpaved road length >100 m
	Demolition (if any)			
		• Total building volume <20,000 m^3	• Total building 20,000 – 50,000 m^3	• Total building >50,000 m^3

[5] This impact intensity criterion is equivalent to the Emission Magnitude as defined in IAQM's Guidance [R-32].
[6] Heavy duty vehicles (HDV) defined as vehicles with a gross weight greater than 3.5 tonnes.

Physical Parameters	Impact Intensity			
	Negligible	**Low**	**Medium**	**High**
		• Construction material with low potential for dust release (e.g. metal cladding or timber) • Demolition activities <10 m above ground • Demolition during wetter months	• Potentially dusty construction material • Demolition activities 10-20 m above ground level	• Potentially dusty construction material (e.g. concrete) • On-site crushing and screening • Demolition activities >20 m above ground level
Air Quality (Operational Phase)	Insignificant increase in air quality levels in the vicinity of the Project operation	Small scale increase in air quality levels in the vicinity of the Project operation	Medium scale increase in air quality levels in the vicinity of the Project operation	Large scale increase in air quality levels in the vicinity of the Project operation
Airborne Noise (Construction Phase)	**Ecological Receptor**			
	The predicted noise levels are within average baseline noise criteria.	The exceedance of values compared to average baseline noise criteria is within 0-3 dB(A).	The exceedance of values compared to average baseline noise criteria is 3-6 dB(A).	The exceedance of values compared to average baseline noise criteria is greater than 6 dB(A).
	Human Receptor			
	The predicted noise levels are within the regulatory noise limits.	The exceedance of values compared to regulatory noise limits is within 0-3 dB(A).	The exceedance of values compared to regulatory noise limits is within 3-6 dB(A).	The exceedance of values compared to regulatory noise limits is greater than 6 dB(A).
Airborne Noise (Operational Phase)	**Ecological Receptor**			
	No detectable change to fauna.	Potential impacts last a short duration, are reversible and/or of a small magnitude for species with low auditory sensitivity level.	Potential impacts last for a moderate duration, are reversible with significant input and compensatory measures, and/or of a moderate magnitude for species with medium auditory sensitivity level.	Potential impacts last for a long time, are non-reversible, and/or of a significant magnitude for species with high auditory sensitivity level.
	Human Receptor			
	Just noticeable, non-intrusive, increase in noise levels: • Noise can be heard but does not result in any change in behaviour or attitude. • Can slightly affect the character of the area but not such that there is a perceived change in quality of life.	Noticeable, mildly intrusive, increase in noise levels: • Noise can be heard and may cause small changes in behaviour and/ or attitude. Potential for non-awakening sleep disturbance. • Can slightly affect the character of the area but not such that	Noticeable, disruptive, increase in noise levels: • Causes an important change in behaviour and/ or attitude during periods of intrusion. • Potential for sleep disturbance resulting in difficulty in getting to sleep, premature awakening, and difficulty in getting back to sleep.	Noticeable, very intrusive, increase in noise levels: • Significant changes in behaviour and/ or an inability to mitigate effect of noise leading to psychological stress or psychological effects.

Physical Parameters	Impact Intensity			
	Negligible	**Low**	**Medium**	**High**
		there is a perceived change in quality of life.	• Quality of life diminished due to change in character of area.	

Table A-3. Criteria to assess impact intensity on the biodiversity receptors, adapted from Tables 7-6, 7-8, 7-10,7-13, 7-15, and 7-17 in the previous study (AECOM, 2022)

Impact to Biodiversity	Impact Intensity			
	Negligible	**Low**	**Medium**	**High**
Habitat Receptor (Construction Phase)				
Loss of vegetation	The habitat does not overlap with the worksites	≤ 10% of the habitat overlaps with the worksites	10–40% of the habitat overlaps with the worksites	40% of the habitat overlaps with the worksites
Habitat degradation **Change in species composition**	The habitat does not overlap with areas 30 m from the worksites	≤ 10% of the habitat overlaps with areas 30 m from the worksites	10–40% of the habitat overlaps with areas 30 m from the worksites	40% of the habitat overlaps with areas 30 m from the worksites
Habitat Receptor (Operational Phase)				
Habitat degradation	Developed area is not accessible to public and no long-term degradation is expected. E.g., core conservation areas with no public access, infrastructure works with no public access.	Developed area is designed with the intention for the public to use or visit and will increase human accessibility to the surrounding natural habitats. Limited or controlled degradation is expected near areas of higher human activity. E.g., nature parks	Developed area is designed for members of the public to visit. E.g., parks. Degradation is expected to occur within at least 50% of the habitat.	Developed area and surroundings are designed for large groups of people to live or work in the long run. Degradation is expected to occur throughout 100% of the habitat. E.g., residential estates
Change in species composition	Development footprint is temporary and/ or operational activities are fully underground (e.g., train alignment)	Development footprint is permanent and small relative to the size of the surrounding habitats, up 30 m from it (i.e., ≤10%)	Development footprint is permanent and medium-sized relative to the size of the surrounding habitats, up to 30 m from it (i.e., 10-40%)	Development footprint is permanent and large-sized relative to the size of the surrounding habitats, up to 30 m from it (i.e., ≥40%)
Flora Receptor (Construction Phase)				
Mortality	No plant specimens of this species are within the worksites	Less than 50% of all plant specimens of this species are within the worksites	More than or exactly 50% of all plant specimens of this species are within the worksites	All plant specimens of this species are within the worksites
Impediment to seedling recruitment	No remaining specimens of this species are within 30m from the	Less than 50% of remaining plant specimens of this species	More than or exactly 50% of remaining plant specimens of	All remaining specimens of this species are within 30m from the

Impact to Biodiversity	Impact Intensity			
	Negligible	**Low**	**Medium**	**High**
Competition from exotic species **Decline in plant health and survival**	worksites	are within 30m from the worksites	this species are within 30m from the worksites	worksites
Flora Receptor (Operational Phase)				
Mortality	No microclimatic changes within the remaining habitat are expected, no plant specimens are expected to be impacted.	Microclimatic changes within the remaining habitat affect less than 50% of the specimens.	Microclimatic changes within the remaining habitat affect more than or exactly 50% of the specimens.	Microclimatic changes within the remaining habitat affect all specimens. (i.e., the habitat is expected to no longer be the same as the original condition and is not favourable for species of interest)
Poaching	No plant specimens of this species are removed from site (i.e., no extrinsic ethnobotanical value), plant locations are not published or inaccessible, plants that are too large to remove from site (i.e., large plants)	Less than 50% of plant specimens of this species can be removed from site (i.e., species has some ethnobotanical value such as common ornamental plants)	More than or exactly 50% of all plant specimens of this species can be removed from site (i.e., charismatic plants such as orchids, pitcher plants with seemingly higher extrinsic ethnobotanical value)	All plant specimens of this species can be removed from site (i.e., charismatic plants such as orchids, pitcher plants with seemingly higher extrinsic ethnobotanical value)
Competition from Exotic Species	Species is cryptogenic, or exotic and listed as “Naturalised”	Species is exotic and listed as “Casual” or not assessed	Species is exotic and listed as “Cultivated Only”	Species is native
Fauna Receptor (Construction Phase)				
Loss of/ reduction in habitats and food sources	No loss of original habitat, nests, or roosts	Loss of <10% of original habitat, nests, or roosts	Loss of 10–40% of original habitat, nests, or roosts	Loss of >40% of original habitat, nests, or roosts
Accidental injury or mortality	Species with negligible susceptibility to accidental injury/ mortality from construction activities (large vehicles, excavation, piling,	Species with low susceptibility to accidental injury/ mortality from construction activities (large vehicles, excavation, piling, etc.) and roadkills:	Species that are mobile but possibly susceptible to accidental injury/ mortality from construction activities (large vehicles, excavation, piling, etc.) and roadkills:	Species with high susceptibility to accidental injury/ mortality from construction activities (large vehicles, excavation, piling, etc.) and roadkills: – Reptiles

Impact to Biodiversity	Impact Intensity			
	Negligible	**Low**	**Medium**	**High**
	etc,) and roadkills	– Volant species (e.g., odonates, butterflies, highly volant birds, raptors and most bats) – Aquatic species (most fishes, crabs, shrimps)	– Less volant birds – All amphibians – Some mammals (e.g., squirrels, shrews)	– Some mammals (e.g., Sunda pangolin, long-tailed macaque, smooth otter) – Migratory birds – Nesting birds – Bamboo bats
Human-wildlife conflict	Species that are not perceived as nuisances or threats by construction personnel – Odonates – Butterflies – Most birds – Aquatic species	Species that are possibly perceived as both nuisances and threats by construction personnel, less tolerant of human presence and urban environments: – Some reptiles – Most amphibians – Most bats	Species that are typically perceived as nuisances and possibly as threats by construction personnel, highly tolerant of human presence and urban environments, and frequently implicated in human-wildlife conflict: – Smooth otter – Aculeate hymenopterans	Species that are typically perceived as both nuisances and threats by construction personnel, highly tolerant of human presence and urban environments, and are frequently implicated in human-wildlife conflict: – Long-tailed macaque – Some snakes
Loss of/ reduction in of ecological connectivity for faunal movement	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Dependent on connected habitats for dispersal	Highly dependent on connected habitats for dispersal
Light disturbances	Species that are not sensitive to changes in light levels: aculeate hymenopterans, most aquatic species	Species that are slightly sensitive to changes in light levels: odonates, butterflies	Species that are sensitive to changes in light levels: diurnal birds, reptiles and mammals	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna
Human disturbances	Species that are not sensitive to human presence	Species that are slightly sensitive to human presence	Species that are sensitive to human presence	Species that are extremely sensitive to human presence and nesting birds
Fauna Receptor (Operational Phase)				
Accidental injury or mortality	Species with negligible susceptibility to accidental injury/ mortality from operation activities, collision with vehicles, and collision with buildings	Species with low susceptibility to accidental injury/ mortality from operation activities, collision with vehicles, and collision with buildings: – Birds with low susceptibility to collision with buildings	Species that are mobile but possibly susceptible to accidental injury/ mortality from operation activities and collision with vehicles, and collision with buildings: – Birds that are possibly susceptible to collision with buildings (e.g., resident species	Species with high susceptibility to accidental injury/ mortality from operation activities and collision with vehicles, and collision with buildings: – Birds with high susceptibility to collision with buildings (e.g., forest-edge frugivores [P-35], migratory species)

Impact to Biodiversity	Impact Intensity			
	Negligible	**Low**	**Medium**	**High**
		– Volant species (e.g., odonates, butterflies, raptors and bats) – Aquatic species (most fishes, crabs, shrimps)	with known records of bird-building collisions [P-35]) – All amphibians – Some mammals (e.g., squirrels, shrews)	– Reptiles – Some mammals (e.g., Sunda pangolin, long-tailed macaque, smooth otter)
Human-wildlife conflict	Species that are not perceived as nuisances or threats by members of the public – Odonates – Butterflies – Most birds – Aquatic species	Species that are possibly perceived as both nuisances and threats by members of the public, less tolerant of human presence and urban environments: – Some reptiles – Most amphibians – Most bats	Species that are typically perceived as nuisances and possibly as threats by members of the public, highly tolerant of human presence and urban environments, and frequently implicated in human-wildlife conflict: – Smooth otter – Red junglefowl – Aculeate hymenopterans	Species that are typically perceived as both nuisances and threats by members of the public, highly tolerant of human presence and urban environments, and are frequently implicated in human-wildlife conflict: – Long-tailed macaque – Some snakes
Poaching	Species with negligible susceptibility to poaching	Species with low susceptibility to poaching; not commonly known to be traded as pets	Species that are possibly susceptible to poaching; commonly traded as pets	Species that are highly susceptible to poaching; listed on CITES Appendix I or II
Loss of/ reduction in ecological connectivity for faunal movement	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructure if needed	Dependent on connected habitats for dispersal	Highly dependent on connected habitats for dispersal
Light disturbances	Species that are not sensitive to changes in light levels: aculeate hymenopterans, aquatic and marine species	Species that are slightly sensitive to changes in light levels: odonates, butterflies	Species that are sensitive to changes in light levels: diurnal birds, reptiles, and mammals	Species that are highly sensitive to changes in light levels: nocturnal, crepuscular fauna
Human disturbances	Species that are not sensitive to human presence	Species that are slightly sensitive to human presence	Species that are possibly sensitive to human presence	Species that are sensitive to human presence

APPENDIX B

List of Plant Species Recorded at Study Area

Appendix B – Complete List of Species recorded in current and past baseline

Latin Name	Common Name	Family	Growth Form	Origin	Status	Current EBS	Past EBS
Acacia auriculiformis	Acacia Tree	Fabaceae	Tree	Non-native	Naturalised	NA	Y
Acalypha arvensis	Field Copperleaf	Euphorbiaceae	Herb	Non-native	Naturalised	Y	NA
Acalypha wilkesiana	-	Euphorbiaceae	Shrub	Non-native	Cultivated Only	NA	Y
Acrostichum aureum	Mangrove Fern, Golden Leather Fern	Pteridaceae	Herb	Native	Least Concern	Y	Y
Adenanthera pavonina	Saga	Fabaceae	Tree	Non-native	Naturalised	Y	Y
Adiantum latifolium	Broadleaf Maiden's Hair Fern	Pteridaceae	Herb	Non-native	Naturalised	Y	Y
Agelaea borneensis	Akar Kankachang	Connaraceae	Climber	Native	Least Concern	Y	NA
Agelaea macrophylla	Akar pinang ketul, Akar pinang kutai	Connaraceae	Climber	Native	Vulnerable	NA	Y
Alocasia macrorrhizos	Giant Taro	Araceae	Herb	Non-native	Naturalised	Y	Y
Alsophila latebrosa	Tree Fern	Cyatheaceae	Tree	Native	Least Concern	Y	Y
Alstonia angustiloba	Common Pulai	Apocynaceae	Tree	Native	Least Concern	Y	NA
Alternanthera sessilis	Sessile Joyweed	Amaranthaceae	Herb	Uncertain	Cryptogenic	Y	NA
Amblovenatum opulentum	Jeweled Maiden Fern	Thelypteridaceae	Climber	Native	Least Concern	Y	Y
Angiopteris evecta	Elephant Fern, Paku Gajah	Marattiaceae	Herb	Native	Vulnerable	Y	NA
Aphanamixis polystachya	Pasak Lingga, Amoora, Pithraj Tree	Meliaceae	Tree	Native	Least Concern	Y	NA
Archidendron jiringa	Jering	Fabaceae	Tree	Native	Vulnerable	Y	Y
Ardisia elliptica	Sea-Shore Ardisia	Primulaceae	Tree	Native	Endangered	Y	NA

Latin Name	Common Name	Family	Growth Form	Origin	Status	Current EBS	Past EBS
Areca catechu	Betel-Nut Palm, Pinang	Arecaceae	Tree	Non-native	Casual	Y	NA
Artemisia vulgaris	Common Mugwort, Common Wormwood, Moxa, Green-Ginger	Asteraceae	Herb	Non-native	Cultivated Only	Y	NA
Artocarpus heterophyllus	Jackfruit, Nangka	Moraceae	Tree	Non-native	Casual	Y	Y
Artocarpus integer	Cempedak	Moraceae	Tree	Uncertain	Cryptogenic	Y	Y
Asplenium longissimum	Spleenwort	Aspleniaceae	Epiphyte	Native	Least Concern	Y	Y
Asplenium nidus	Bird Nest Fern	Aspleniaceae	Epiphyte	Native	Least Concern	Y	Y
Asystasia gangetica subsp. micrantha	Common Asystasia	Acanthaceae	Herb	Non-native	Naturalised	Y	Y
Averrhoa carambola	Star Fruit, Belimbing Besi	Oxalidaceae	Tree	Non-native	Casual	Y	NA
Axonopus compressus	Cow Grass, Tropical Carpet Grass	Poaceae	Herb	Non-native	Naturalised	Y	Y
Baccaurea motleyana	Rambai	Phyllanthaceae	Tree	Native	Critically Endangered	Y	Y
Bambusa heterostachya	Malay Dwarf Green	Poaceae	Shrub	Non-native	Excluded (Cultivated Only)	NA	Y
Bambusa vulgaris	Common Bamboo	Poaceae	Shrub	Non-native	Excluded (Cultivated Only)	Y	Y
Bidens pilosa	Beggar'S Tick	Asteraceae	Herb	Non-native	Naturalised	Y	NA
Breynia androgyna	Cekur Manis	Phyllanthaceae	Shrub	Native	Vulnerable	NA	Y
Bridelia tomentosa	Kenidai	Phyllanthaceae	Tree	Native	Least Concern	Y	Y
Callicarpa longifolia	Long Leaved Beauty Berry	Lamiaceae	Shrub	Native	Vulnerable	Y	NA

Latin Name	Common Name	Family	Growth Form	Origin	Status	Current EBS	Past EBS
Calophyllum inophyllum	Penaga Laut, Borneo Mahogany, Indian Laurel	Calophyllaceae	Tree	Native	Endangered	Y	Y
Calopogonium mucunoides	Calopo	Fabaceae	Climber	Non-native	Naturalised	Y	NA
Cananga odorata	Ylang-Ylang Tree	Annonaceae	Tree	Uncertain	Cryptogenic	Y	NA
Carica papaya	Papaya, Pawpaw, Betik	Caricaceae	Tree	Non-native	Casual	Y	NA
Caryota mitis	Common Fishtail Palm	Arecaceae	Tree	Native	Least Concern	Y	Y
Casuarina equisetifolia	Horsetail tree, Australian pine, common rhu	Casuarinaceae	Tree	Native	Least Concern	NA	Y
Causonis trifolia	Bush Grape, Fox-Grape, Three-Leaved Wild Vine, Threeleaf Cayratia	Vitaceae	Climber	Native	Vulnerable	Y	Y
Cecropia pachystachya	Ambay Pumpwood	Urticaceae	Tree	Non-native	Naturalised	Y	Y
Cenchrus purpureus	Elephant Grass	Poaceae	Herb	Non-native	Naturalised	Y	NA
Centotheca lappacea	Rumput Lilit Kain	Poaceae	Herb	Native	Least Concern	Y	Y
Centrosema molle	Soft Butterfly Pea	Fabaceae	Climber	Non-native	Naturalised	Y	Y
Cheilocostus speciosus	Spiral Ginger, White Costus, Crepe Ginger	Costaceae	Herb	Native	Critically Endangered	Y	Y
Christella arida	-	Thelypteridaceae	Herb	Native	Least Concern	Y	NA
Christella subpubescens	-	Thelypteridaceae	Herb	Native	Least Concern	Y	NA

Latin Name	Common Name	Family	Growth Form	Origin	Status	Current EBS	Past EBS
Chromolaena odorata	Siam Weed	Asteraceae	Herb	Non-native	Naturalised	NA	Y
Cinnamomum iners	Wild Cinnamon	Lauraceae	Tree	Native	Least Concern	Y	Y
Cissus hastata	Spear-Shaped Cissus, Akar Asam Riang, White Stemmed Button Vine	Vitaceae	Climber	Native	Least Concern	Y	Y
Citrus maxima	Pomelo, Limau Besar	Rutaceae	Tree	Non-native	Cultivated Only	Y	NA
Claoxylon indicum	Jarak Kayu	Euphorbiaceae	Tree	Native	Least Concern	Y	Y
Clausena excavata	False Curry Tree, Pink Lime Berry	Rutaceae	Shrub	Native	Least Concern	Y	Y
Clerodendrum disparifolium	Swaddling Flower	Lamiaceae	Tree	Native	Least Concern	NA	Y
Clerodendrum villosum	Panggil	Lamiaceae	Shrub	Native	Vulnerable	Y	NA
Clinacanthus nutans	Sabah Snake Grass	Acanthaceae	Shrub	Non-native	Not Evaluated	Y	NA
Coccinia grandis	Ivy Gourd	Cucurbitaceae	Climber	Non-native	Naturalised	Y	Y
Cocos nucifera	Coconut	Arecaceae	Tree	Non-native	Naturalised	NA	Y
Colocasia esculenta	Cocoyam, Taro, Elephant'S Ear	Araceae	Herb	Non-native	Casual	Y	NA
Combretum indicum	Double Rangoon Creeper	Combretaceae	Climber	Non-native	Casual	Y	NA
Commelina diffusa	Spreading Dayflower	Commelinaceae	Herb	Uncertain	Cryptogenic	Y	NA
Connarus semidecandrus	-	Connaraceae	Climber	Native	Critically Endangered	NA	Y
Cordyline fruticosa	Ti Plant	Asparagaceae	Shrub	Non-native	Casual	NA	Y

Latin Name	Common Name	Family	Growth Form	Origin	Status	Current EBS	Past EBS
Cyclosorus interruptus	Hottentot Fern, Swamp Shield-Fern	Thelypteridaceae	Herb	Native	Least Concern	Y	NA
Cyperus aromaticus	Navua Sedge	Cyperaceae	Herb	Non-native	Naturalised	Y	NA
Cyperus iria	Rice Flatsedge, Umbrella Sedge	Cyperaceae	Herb	Native	Least Concern	Y	NA
Cyperus mindorensis	White Kyllinga	Cyperaceae	Herb	Native	Least Concern	Y	Y
Cyperus polystachyos	Manyspike Flatsedge	Cyperaceae	Herb	Native	Least Concern	Y	NA
Cyperus surinamensis	-	Cyperaceae	Herb	Non-native	Naturalised	Y	NA
Davallia denticulata	Rabbit's foot fern	Davalliaceae	Epiphyte	Native	Least Concern	NA	Y
Derris trifoliata	Common Derris, Akar Tuba	Fabaceae	Climber	Native	Least Concern	Y	Y
Dieffenbachia seguine	Dumbcane	Araceae	Herb	Non-native	Casual	Y	Y
Dillenia indica	Elephant Apple	Dilleniaceae	Tree	Non-native	Excluded (Cultivated Only)	Y	NA
Dillenia suffruticosa	Simpoh Air	Dilleniaceae	Shrub	Native	Least Concern	Y	Y
Dimocarpus lichi	Mata Kucing, Isau, Sau, Kakus	Sapindaceae	Tree	Native	Data Deficient	NA	Y
Dimocarpus longan	Longan	Sapindaceae	Tree	Non-native	Casual	Y	Y
Dracaena fragrans	Corn Palm, Palmillo, Fortune Plant	Asparagaceae	Shrub	Non-native	Casual	Y	Y
Dracaena sanderiana	Lucky Bamboo Plant	Asparagaceae	Shrub	Non-native	Naturalised	Y	NA
Dracaena surculosa	Gold Dust Dracaena, Spotted Dracaena,	Asparagaceae	Shrub	Non-native	Naturalised	Y	NA

Latin Name	Common Name	Family	Growth Form	Origin	Status	Current EBS	Past EBS
	Japanese Bamboo						
Durio zibethinus	Durian	Malvaceae	Tree	Non-native	Casual	Y	Y
Eclipta prostrata	False daisy	Asteraceae	Herb	Non-native	Naturalised	NA	Y
Elaeis guineensis	Oil Palm, Kelapa Sawit	Arecaceae	Tree	Non-native	Casual	Y	Y
Elaeocarpus petiolatus	Broad-Leafed Oil Fruit	Elaeocarpaceae	Tree	Native	Least Concern	Y	NA
Eleocharis geniculata	Bent Spikerush	Cyperaceae	Herb	Native	Least Concern	Y	NA
Eleusine indica	Indian Goosegrass	Poaceae	Herb	Native	Least Concern	Y	NA
Embelia ribes	False Black Pepper	Primulaceae	Climber	Native	Least Concern	Y	Y
Emblica urinaria	Shatterstone	Phyllanthaceae	Herb	Non-native	Naturalised	Y	NA
Emilia sonchifolia	Cupid's shaving brush	Asteraceae	Herb	Native	Least Concern	NA	Y
Epipremnum amplissimum	Silver Leaf	Araceae	Herb	Non-native	Cultivated Only	NA	Y
Epipremnum aureum	Ivy Arum, Money Plant	Araceae	Climber	Non-native	Casual	Y	NA
Epipremnum pinnatum	Dragon-Tail Vine, Taro Vine	Araceae	Climber	Non-native	Naturalised	Y	Y
Etlingera elatior	Painted Net Leaf, Torch Ginger	Zingiberaceae	Herb	Non-native	Cryptogenic	Y	NA
Falcataria falcata	Albizia Tree	Fabaceae	Tree	Non-native	Naturalised	Y	Y
Ficus benjamina	Weeping Fig	Moraceae	Strangler	Uncertain	Cryptogenic	Y	Y
Ficus caulocarpa	Stem-Fruited Fig	Moraceae	Strangler	Native	Endangered	Y	Y
Ficus fistulosa	Yellow Stem Fig	Moraceae	Tree	Native	Least Concern	Y	Y
Ficus grossularioides	White-Leafed Fig	Moraceae	Tree	Native	Least Concern	Y	NA
Ficus heteropleura	Sandy-Leaved Fig	Moraceae	Climber	Native	Least Concern	Y	Y

Latin Name	Common Name	Family	Growth Form	Origin	Status	Current EBS	Past EBS
Ficus microcarpa	Malayan Banyan, Small-Fruited Fig, Indian Laurel Fig	Moraceae	Strangler	Native	Least Concern	Y	Y
Ficus religiosa	Bodhi Tree	Moraceae	Strangler	Non-native	Naturalised	Y	NA
Ficus variegata	Common Red-Stem Fig	Moraceae	Tree	Native	Least Concern	Y	Y
Fimbristylis dichotoma	Forked Fimbry, Common Fimbristylis	Cyperaceae	Herb	Native	Least Concern	Y	NA
Fimbristylis littoralis	Grass-Like Fimbry	Cyperaceae	Herb	Native	Least Concern	Y	NA
Flagellaria indica	False Rattan	Flagellariaceae	Climber	Native	Least Concern	Y	NA
Flemingia macrophylla	Large-leafed Flemingia	Fabaceae	Climber	Non-native	Not Evaluated	Y	NA
Gironniera nervosa	Common Rough Laurel	Cannabaceae	Tree	Native	Least Concern	Y	NA
Gnetum gnemon	Belinjau	Gnetaceae	Tree	Native	Critically Endangered	Y	Y
Grona heterophylla	Spanish Clover, Greater Clover-Leaved Desmodium	Fabaceae	Herb	Native	Least Concern	Y	Y
Grona triflora	Creeping Tick Trefoil, Three-flower Beggarweed	Fabaceae	Herb	Native	Least Concern	NA	Y
Grypothrix triphylla	Three-Leaved Crescent Fern	Thelypteridaceae	Herb	Native	Least Concern	Y	NA
Gymnanthemum amygdalinum	Bitter Leaf	Asteraceae	Shrub	Non-native	Cultivated Only	Y	NA
Gymnopetalum scabrum	-	Cucurbitaceae	Climber	Native	Least Concern	Y	NA

Latin Name	Common Name	Family	Growth Form	Origin	Status	Current EBS	Past EBS
Gynochthodes umbellata	Akar ketang	Rubiaceae	Climber	Native	Least Concern	NA	Y
Hedyotis auricularia	Eared-Leaf Diamond Flower	Rubiaceae	Herb	Native	Extinct	NA	Y
Hedyotis corymbosa	Two-Flowered Oldenlandia	Rubiaceae	Herb	Native	Least Concern	Y	NA
Hedyotis diffusa	Snake-Needle Grass	Rubiaceae	Herb	Native	Least Concern	Y	NA
Heliconia psittacorum	Parakeet Flower, parrot's beak	Heliconiaceae	Herb	Non-native	Casual	NA	Y
Heptapleurum actinophyllum	Umbrella Tree, Octopus Tree	Araliaceae	Tree	Non-native	Casual	Y	NA
Hevea brasiliensis	Rubber Tree	Euphorbiaceae	Tree	Non-native	Naturalised	Y	Y
Horsfieldia sp.	-	Myristicaceae	Tree	Native	Vulnerable	Y	NA
Hoya diversifolia	Akar Kekapal, Caping Kera	Apocynaceae	Epiphyte	Native	Vulnerable	Y	Y
Hydrocotyle sibthorpioides	Lawn Pennywort	Araliaceae	Herb	Native	Least Concern	Y	NA
Imperata cylindrica	Lalang	Poaceae	Herb	Native	Least Concern	NA	Y
Ipomoea aquatica	Kang Kong	Convolvulaceae	Climber	Native	Least Concern	Y	NA
Ipomoea cairica	Messina Creeper	Convolvulaceae	Climber	Non-native	Naturalised	Y	Y
Ischaemum muticum	Seashore centipede grass, Rumput Kemarau	Poaceae	Herb	Native	Least Concern	NA	Y
Ixonanthes reticulata	Pagar Anak	Ixonanthaceae	Tree	Native	Least Concern	Y	NA
Leea indica	Bandicoot Berry, Common Tree-Vine	Vitaceae	Tree	Native	Least Concern	Y	Y

Latin Name	Common Name	Family	Growth Form	Origin	Status	Current EBS	Past EBS
Legazpia polygonoides	Kerak Nasi, Malayan Eyebright	Linderniaceae	Herb	Uncertain	Cryptogenic	Y	Y
Lepisanthes rubiginosa	Rusty Sapindus	Sapindaceae	Tree	Native	Least Concern	Y	NA
Leucaena leucocephala	Lead Tree	Fabaceae	Tree	Non-native	Naturalised	Y	Y
Limacia scandens	-	Menispermaceae	Climber	Native	Vulnerable	Y	Y
Limnocharis flava	Yellow Burrhead, Sawah Lettuce	Alismataceae	Herb	Non-native	Naturalised	Y	NA
Lindera lucida	Shiny Leafed Lindera	Lauraceae	Tree	Native	Vulnerable	Y	NA
Lindernia crustacea	Malaysian False Pimpernel	Linderniaceae	Herb	Uncertain	Cryptogenic	Y	Y
Litsea elliptica	Common Medang	Lauraceae	Tree	Native	Least Concern	Y	NA
Litsea umbellata	-	Lauraceae	Shrub	Native	Vulnerable	Y	Y
Ludwigia hyssopifolia	Narrow-Leaved Malayan Willow-Herb	Onagraceae	Herb	Uncertain	Cryptogenic	Y	NA
Ludwigia octovalvis	Mexican Primrose Willow	Onagraceae	Herb	Uncertain	Cryptogenic	NA	Y
Ludwigia peruviana	Peruvian Primrose-Willow	Onagraceae	Shrub	Non-native	Naturalised	Y	NA
Lygodium circinnatum	Red Finger Fern	Lygodiaceae	Climber	Uncertain	Cryptogenic	Y	NA
Lygodium flexuosum	Maidenhair Creeper	Lygodiaceae	Climber	Native	Least Concern	Y	Y
Lygodium longifolium	-	Lygodiaceae	Climber	Native	Least Concern	Y	NA
Lygodium microphyllum	Ribu-Ribu	Lygodiaceae	Climber	Native	Least Concern	Y	NA
Macaranga conifera	-	Euphorbiaceae	Tree	Native	Least Concern	Y	NA

Latin Name	Common Name	Family	Growth Form	Origin	Status	Current EBS	Past EBS
Macaranga gigantea	Giant Mahang, Mahang Gajah	Euphorbiaceae	Tree	Native	Least Concern	Y	Y
Macaranga hypoleuca	-	Euphorbiaceae	Tree	Native	Least Concern	Y	NA
Magnolia x alba	White Chempaka	Magnoliaceae	Tree	Non-native	Cultivated Only	Y	NA
Mallotus paniculatus	Turn-in-the wind, Balek angin	Euphorbiaceae	Tree	Native	Least Concern	NA	Y
Mangifera indica	Mango, Mangga	Anacardiaceae	Tree	Non-native	Casual	Y	NA
Mangifera x odorata	Kweni	Anacardiaceae	Tree	Non-native	Casual	Y	Y
Manihot carthagenensis subsp. glaziovii	False Tapioca, Manicoba, Ubi	Euphorbiaceae	Tree	Non-native	Naturalised	Y	Y
Manihot esculenta	Cassava, Manioc, Yuca	Euphorbiaceae	Shrub	Non-native	Naturalised	Y	Y
Manilkara zapota	Chiku, Sapodilla	Sapotaceae	Tree	Non-native	Cultivated Only	NA	Y
Melastoma malabathricum	Sendudok	Melastomataceae	Shrub	Native	Least Concern	Y	Y
Melicope lunu-ankenda	Tenggek Burong	Rutaceae	Tree	Native	Critically Endangered	Y	NA
Melothria pendula	Guadeloupe Cucumber, Creeping Cucumber	Cucurbitaceae	Climber	Non-native	Naturalised	Y	Y
Miconia crenata	Koster'S Curse	Melastomataceae	Shrub	Non-native	Naturalised	Y	Y
Microlepia speluncae	Limpleaf Fern	Dennstaedtiaceae	Herb	Native	Least Concern	Y	NA
Mikania micrantha	Mile-A-Minute Weed	Asteraceae	Climber	Non-native	Naturalised	Y	Y
Mimosa pudica	Sensitive Plant	Fabaceae	Shrub	Non-native	Naturalised	Y	Y
Mimusops elengi	Tanjong Tree	Sapotaceae	Tree	Non-native	Casual	Y	NA

Latin Name	Common Name	Family	Growth Form	Origin	Status	Current EBS	Past EBS
Moeroris amara	Child Pick-A-Back, Gale Of Wind	Phyllanthaceae	Herb	Non-native	Naturalised	Y	NA
Monochoria cf. hastata		Pontederiaceae	Herb	Uncertain	Cryptogenic	Y	NA
Monoon longifolium	False Ashoka	Annonaceae	Tree	Non-native	Cultivated Only	Y	Y
Muntingia calabura	Jamaican Cherry	Muntingiaceae	Tree	Non-native	Naturalised	Y	Y
Musa acuminata	Banana	Musaceae	Herb	Non-native	Cultivated Only	Y	NA
Nephelium lappaceum	Rambutan	Sapindaceae	Tree	Uncertain	Cryptogenic	Y	Y
Nephrolepis biserrata	Broad Sword Fern	Nephrolepidaceae	Herb	Native	Least Concern	Y	Y
Neustanthus phaseoloides	Tropical Kudzu	Fabaceae	Climber	Non-native	Naturalised	Y	NA
Ottochloa nodosa	Slender Panic Grass	Poaceae	Herb	Native	Least Concern	Y	Y
Oxyceros longiflorus	Akar Berdara Laut	Rubiaceae	Climber	Native	Vulnerable	Y	Y
Paederia foetida	Skunkvine, Lesser Malayan Stinkwort	Rubiaceae	Climber	Native	Least Concern	Y	Y
Pandanus amaryllifolius	Pandan Wagi, Fragrant Pandan	Pandanaceae	Shrub	Non-native	Casual	Y	Y
Panicum repens	Creeping Panic Grass	Poaceae	Herb	Non-native	Naturalised	NA	Y
Paspalum conjugatum	Buffalo Grass, Hilo Grass	Poaceae	Herb	Non-native	Naturalised	Y	NA
Passiflora suberosa	Corky Passionflower, Corkystem Passionflower	Passifloraceae	Climber	Non-native	Naturalised	NA	Y
Peperomia pellucida	Shiny Bush	Piperaceae	Herb	Non-native	Naturalised	Y	NA

Latin Name	Common Name	Family	Growth Form	Origin	Status	Current EBS	Past EBS
Persicaria chinensis	Chinese Knotweed	Polygonaceae	Herb	Non-native	Naturalised	NA	Y
Piper sarmentosum	Wild Pepper	Piperaceae	Climber	Native	Least Concern	Y	Y
Pipturus argenteus	Australian Mulberry	Urticaceae	Shrub	Non-native	Cryptogenic	Y	NA
Planchonella obovata	Menasi, Sea Gutta	Sapotaceae	Tree	Native	Vulnerable	Y	NA
Premna serratifolia	Buas Buas, Arani	Lamiaceae	Climber	Native	Least Concern	Y	Y
Pteris ensiformis	Sword Brake, Paku Padang	Pteridaceae	Herb	Uncertain	Cryptogenic	Y	NA
Pteris tripartita	Giant Brake Fern	Pteridaceae	Herb	Non-native	Cryptogenic	Y	NA
Ruellia repens	Creeping ruellia	Acanthaceae	Herb	Uncertain	Cryptogenic	NA	Y
Samanea saman	Rain Tree	Fabaceae	Tree	Non-native	Casual	Y	NA
Scleria levis	-	Cyperaceae	Herb	Native	Least Concern	Y	NA
Spathodea campanulata	African Tulip Tree	Bignoniaceae	Tree	Non-native	Naturalised	Y	Y
Spermacoce exilis	Pacific False Buttonweed	Rubiaceae	Herb	Non-native	Naturalised	Y	NA
Spermacoce ocymifolia	-	Rubiaceae	Herb	Non-native	Naturalised	Y	NA
Sphaerostephanos polycarpos	-	Thelypteridaceae	Herb	Native	Least Concern	Y	NA
Stemodia verticillata	Whorled Twintip	Plantaginaceae	Herb	Non-native	Naturalised	Y	NA
Stenochlaena palustris	Climbing Fern	Blechnaceae	Climber	Native	Least Concern	Y	Y
Sterculia parviflora	Common Sterculia	Malvaceae	Tree	Native	Critically Endangered	Y	NA
Struchium sparganophorum	Yerba De Faja	Asteraceae	Herb	Non-native	Naturalised	Y	NA
Suregada glomerulata	False Lime	Euphorbiaceae	Shrub	Native	Critically Endangered	Y	NA
Symplocos fasciculata	Kerenang, Menasi	Symplocaceae	Tree	Native	Vulnerable	Y	NA
Syngonium angustatum	Arrowhead Vine	Araceae	Climber	Non-native	Naturalised	Y	Y

Latin Name	Common Name	Family	Growth Form	Origin	Status	Current EBS	Past EBS
Syzygium aqueum	Water Apple	Myrtaceae	Tree	Non-native	Cultivated Only	Y	NA
Syzygium borneense	Bullate Eugenia	Myrtaceae	Tree	Native	Least Concern	Y	Y
Syzygium cerasiforme	Common kelat	Myrtaceae	Tree	Native	Least Concern	NA	Y
Syzygium grande	Sea Apple, Jambu Air Laut	Myrtaceae	Tree	Native	Least Concern	Y	Y
Syzygium jambos	Rose Apple	Myrtaceae	Tree	Non-native	Casual	Y	NA
Syzygium malaccense	Malay Apple	Myrtaceae	Tree	Non-native	Casual	Y	NA
Syzygium myrtifolium	Kelat Oil	Myrtaceae	Tree	Native	Critically Endangered	Y	Y
Syzygium polyanthum	Indonesian Bayleaf	Myrtaceae	Tree	Native	Least Concern	Y	Y
Syzygium syzygioides	Kelat Hitam	Myrtaceae	Tree	Native	Vulnerable	Y	NA
Syzygium zeylanicum	Spicate eugenia	Myrtaceae	Shrub	Native	Least Concern	NA	Y
Tectaria incisa	Incised Halberd Fern	Tectariaceae	Herb	Non-native	Naturalised	Y	NA
Telosma cordata	Chinese violet	Apocynaceae	Climber	Non-native	Cultivated Only	NA	Y
Terminalia catappa	Sea Almond, Ketapang	Combretaceae	Tree	Native	Least Concern	Y	Y
Tetracera indica	Sandpaper Vine	Dilleniaceae	Climber	Native	Least Concern	Y	Y
Theobroma cacao	Cocoa	Malvaceae	Tree	Non-native	Cultivated Only	Y	Y
Thunbergia fragrans	Angel wings	Acanthaceae	Climber	Non-native	Naturalised	NA	Y
Tinospora crispa	Petawali	Menispermaceae	Climber	Non-native	Casual	Y	Y
Tinospora macrocarpa	-	Menispermaceae	Climber	Native	Vulnerable	Y	NA
Uncaria gambir	Gambir	Rubiaceae	Climber	Non-native	Naturalised	Y	Y
Urochloa maxima	Guinea grass,	Poaceae	Herb	Non-native	Naturalised	NA	Y

Latin Name	Common Name	Family	Growth Form	Origin	Status	Current EBS	Past EBS
	Rumput benggala						
Urochloa mutica	Para Grass	Poaceae	Herb	Non-native	Naturalised	Y	NA
Vandellia diffusa	Spreading False Pimpernel	Linderniaceae	Herb	Non-native	Not Evaluated	Y	NA
Vernonia cinerea	Common Vernonia	Asteraceae	Herb	Native	Least Concern	Y	NA
Vitex pinnata	Leban	Lamiaceae	Tree	Native	Least Concern	Y	Y
Youngia japonica	Oriental False Hawksbeard	Asteraceae	Herb	Non-native	Naturalised	Y	Y

APPENDIX C

Photographs of Plants Observed at Study Area

Appendix C –Photographs of Plants Observed at Project Study Area

Adiantum latifolium



Alocasia macrorrhizos



Alsophila latebrosa



Angiopteris evecta



Asystasia gangetica subsp. micrantha



Archidendron jiringa



Ardisia elliptica



Baccaurea motleyana



Bambusa vulgaris



Bidens pilosa



Bridelia tomentosa



Callicarpa longifolia



Calophyllum inophyllum



Camonea sp.



Cananga odorata



Causonis trifolia



Cenchrus purpureus



Centotheca lappacea



Cheilocostus speciosus



Christella arida



Christella subpubescens



Cissus hastata



Clausena excavata



Clerodendrum villosum



Commelina diffusa



Cyperus polystachyos



Cyperus surinamensis



Dieffenbachia seguine



Dillenia suffruticosa



Dracaena surculosa



Embelia ribes



Emblica urinaria



Epipremnum aureum



Epipremnum pinnatum



Falcataria falcata



Ficus caulocarpa



Ficus grossularioides

Flagellaria indica



Gnetum gnemon



Horsfieldia sp.



Hoya diversifolia



Ipomoea cairica



Ipomoea sp.



Limacia scandens



Limnocharis flava



Lindera lucida



Litsea umbellata



Ludwigia peruviana



Manihot carthagenensis



Manihot esculenta



Melicope lunu-ankenda



Miconia crenata



Mikania micrantha



Nephrolepis biserrata



Oxyceros longiflorus



Paederia foetida



Piper sarmentosum



Pipturus argenteus



Planchonella obovata



Stenochlaena palustris



Sterculia parviflora



Spathodea campanulata



Suregada glomerulata



Syngonium angustatum



Symplocos fasciculata



Syzygium myrtifolium



Syzygium syzygioides



Tetracera indica



Tinospora crispa



Tinospora macrocarpa





APPENDIX D

List of Fauna Species Recorded at Study Area

List of Fauna Species Recorded at Project Study Area

Table 1. List of birds found in the project study area

No.	Family	Species name	Common Name	Local Status	Abundance	SRDB Status	IUCN Status	Present Surveys	Previous Surveys Recorded (AECOM)
1	Sturnidae	*Aplonis panayensis*	Asian Glossy Starling	RB	C	0	LC	1	1
2	Cuculidae	*Eudynamys scolopacea*	Asian Koel	RB WV	C	0	LC	1	1
3	Oriolidae	*Oriolus chinensis*	Black-naped Oriole	RB	C	-	LC	1	1
4	Psittacidae	*Loriculus galgulus*	Blue-crowned Hanging Par	RB	U	EN	LC	1	1
5	Meropidae	*Merops viridis*	Blue-throated Bee-eater	MB (F/W)	C	0	LC	1	0
6	Nectariniidae	*Anthreptes malacensis*	Brown-throated Sunbird	RB	C	0	LC	1	1
7	Accipitridae	*Nisaetus cirrhatus*	Changeable Hawk-eagle	RB (F/W)	U	EN	LC	1	1
8	Alcedinidae	*Todiramphus chloris*	Collared Kingfisher	RB	A	-	LC	1	1
9	Aegithinidae	*Aegithina tiphia*	Common Iora	RB	C	-	LC	1	1
10	Cisticolidae	*Orthotomus sutorius*	Common Tailorbird	RB	C	0	LC	1	1
11	Megalaimidae	*Psilopogon haemacephalus*	Coppersmith Barbet	RB	C	0	LC	1	1
12	Nectariniidae	*Aethopyga siparaja*	Crimson Sunbird	RB (F/W)	C	0	LC	1	0
13	Cisticolidae	*Orthotomus atrogularis*	Dark-necked Tailorbird	RB (F/W)	C	0	LC	1	1
14		*Gallus gallus domesticus*	Domestic chicken					1	0
15	Passeridae	*Passer montanus*	Eurasian Tree Sparrow	RB (I?)	C	0	LC	1	1
16	Corvidae	*Corvus splendens*	House Crow	IRB	C	0	LC	1	1
17	Sturnidae	*Acridotheres javanicus*	Javan Myna	IRB	A	0	VU	1	1
18	Picidae	*Picus vittatus*	Laced Woodpecker	RB (F/W)	C	0	LC	1	1
19	Psittacidae	*Psittacula longicauda*	Long-tailed Parakeet	RB (F/W)	C	0	VU	1	1
20	Rhipiduridae	*Rhipidura javanica*	Malaysian Pied Fantail	RB	C	0	LC	1	1
21	Nectariniidae	*Cinnyris jugularis*	Olive-backed Sunbird	RB	C	0	LC	1	1
22	Coraciidae	*Eurystomus orientalis*	Oriental Dollarbird	RB WV (F/W)	C	0	LC	1	1
23	Hirundinidae	*Hirundo tahitica*	Pacific/Tahiti Swallow	RB	C	0	LC	1	1
24	Campephagidae	*Lalage nigra*	Pied Triller	RB	C	-	LC	1	1
25	Columbidae	*Treron vernans*	Pink-necked Green Pigeon	RB	A	0	LC	1	1
26	Psittacidae	*Psittacula alexandri*	Red-breasted Parakeet	IRB	C	0	NT	1	1
27	Pycnonotidae	*Pycnonotus jocosus*	Red-whiskered Bulbul	IRB	U	0	LC	1	1
28	Psittacidae	*Psittacula krameri*	Rose-ringed Parakeet	IRB	U	0	LC	1	0
29	Cisticolidae	*Orthotomus sericeus*	Rufous-tailed Tailorbird	RB	U	0	LC	0	1
30	Estrildidae	*Lonchura punctulata*	Scaly-breasted Munia	RB	C	0	LC	1	0
31	Dicaeidae	*Dicaeum cruentatum*	Scarlet-backed Flowerpeck	RB	C	0	LC	1	1
32	Columbidae	*Spilopelia chinensis*	Spotted Dove	RB	A	0	LC	1	1
33	Pycnonotidae	*Pycnonotus zeylanicus*	Straw-headed Bulbul	RB (F/W)	U	EN	CR	1	1
34	Zosteropidae	*Zosterops simplex*	Swinhoe's White-eye	I? RB	C	0	LC	1	1
35	Accipitridae	*Haliaeetus leucogaster*	White-bellied Sea Eagle	RB	C	-	LC	1	1
36	Rallidae	*Amaurornis phoenicurus*	White-breasted Waterhen	RB WV	C	0	LC	1	1
37	Cisticolidae	*Prinia flaviventris*	Yellow-bellied Prinia	RB	C	0	LC	1	1
38	Pycnonotidae	*Pycnonotus goiavier*	Yellow-vented Bulbul	RB	A	0	LC	1	1
39	Columbidae	*Geopelia striata*	Zebra Dove	RB	C	0	LC	1	1
40	Strigidae	*Ketupa ketupu*	Buffy Fish Owl	RB	U	CR	LC	1	1

No.	Family	Species name	Common Name	Local Status	Abundance	SRDB Status	IUCN Status	Present Surveys	Previous Surveys Recorded (AECOM)
41	Caprimulgidae	*Caprimulgus macrurus*	Large-tailed Nightjar	RB	C	-	LC	1	1
42	Strigidae	*Otus lempiji*	Sunda Scops Owl	RB	C	0	LC	1	1
43	Charadriidae	*Vanellus miles*	Masked Lapwing	I	0	0	LC	1	0
44	Acanthizidae	*Gerygone sulphurea*	Golden-bellied Gerygone	RB (F/W)	C	-	LC	0	1
53	Accipitridae	*Haliastur indus*	Brahminy Kite	RB	C	-	LC	0	1
63	Alcedinidae	*Halcyon smyrnensis*	White-throated Kingfisher	RB	C	-	LC	0	1
64	Alcedinidae	*Pelargopsis capensis*	Stork-billed Kingfisher	RB	U	-	LC	0	1
71	Ardeidae	*Butorides striata*	Striated Heron	RB WV	C	-	LC	0	1
77	Ardeidae	*Ixobrychus sinensis*	Yellow Bittern	RB WV	C	-	LC	0	1
	Ardeidae	*Ardea purpurea*	Purple Heron	RB	U	EN	LC	1	0
83	Campephagidae	*Pericrocotus divaricatus*	Ashy Minivet	WV PM (F/W)	C	-	LC	0	1
84	Caprimulgidae	*Caprimulgus affinis*	Savannah Nightjar	RB	C	-	LC	0	1
85	Charadriidae	*Vanellus indicus*	Red-wattled Lapwing	RB	U	EN	LC	0	1
87	Cisticolidae	*Orthotomus ruficeps*	Ashy Tailorbird	RB	C	0	LC	0	1
88	Columbidae	*Chalcophaps indica*	Common Emerald Dove	RB	U	0	LC	1	0
112	Hirundinidae	*Hirundo rustica*	Barn swallow	WV PM	A	0	LC	0	1
113	Laniidae	*Lanius cristatus*	Brown Shrike	WV PM	C	0	LC	0	1
119	Megalaimidae	*Psilopogon lineatus*	Lineated Barbet	IRB	U	0	LC	0	1
120	Meropidae	*Merops philippinus*	Blue-tailed bee-eater	WV	C	0	LC	0	1
128	Muscicapidae	*Copsychus saularis*	Oriental Magpie-Robin	RB	U	EN	LC	1	1
130	Muscicapidae	*Ficedula zanthopygia*	Yellow-rumped Flycatcher	PM	U	0	LC	0	1
132	Muscicapidae	*Muscicapa dauurica*	Asian Brown Flycatcher	WV PM (F/W)	C	0	LC	0	1
134	Phasianidae	*Gallus gallus*	Red Junglefowl	RB	U	EN	LC	1	0
135	Phylloscopidae	*Phylloscopus borealis*	Arctic Warbler	WV PM (F/W)	C	0	LC	0	1
139	Picidae	*Dinopium javanense*	Common Flameback	RB (F/W)	C	0	LC	0	1
140	Picidae	*Micropternus brachyurus*	Rufous Woodpecker	RB (F/W)	U	0	LC	0	1
141	Picidae	*Dendrocopos moluccensis*	Sunda Pygmy Woodpecker	RB	A	0	LC	0	1
142	Pittidae	*Pitta moluccensis*	Blue-winged Pitta	WV PM	U	0	LC	0	1
146	Psittacidae	*Trichoglossus haematodus*	Coconut Lorikeet	IRB	U	0	LC	0	1
148	Pycnonotidae	*Pycnonotus plumosus*	Olive-winged Bulbul	RB	C	0	LC	0	1
152	Rallidae	*Rallina fasciata*	Red-legged Crake	RB WV	U	VU	LC	0	1
0		*Aerodramus sp.*	-					1	1
0		*Cacatua sp.*	-					0	1

Local Status

RB	Resident Breeder
R(B)	Resident, breeding not proven
WV	Winter Visitor
PM	Passage Migrant
MB	Migrant Breeder
NBV	Non-breeding Visitor
I	Introduced
?	Status Uncertain

No.	Family	Species name	Common Name	Local Status	Abundance	SRDB Status	IUCN Status	Present Surveys	Previous Surveys Recorded (AECOM)

Conservation Status

DD	Data Deficient
LC	Least Concern
NT	Near Threatened
VU	Vulnerable
EN	Endangered
CR	Critically Endangered

Table 2. List of mammals found in the project study area

No.	Family	Species name	Common Name	Local Status	Local Conservation Status (NEW)	IUCN status	Present Surveys	Previous Surveys Recorded (AECOM)
1	Sciuridae	*Callosciurus notatus*	Plantain Squirrel	Native	LC	LC	1	1
2	Muridae	*Rattus norvegicus*	Brown Rat	Introduced	Not applicable	LC	0	1
3	Muridae	*Rattus tanezumi*	Oriental House Rat	Native	LC	LC	0	0
4	Muridae	*Rattus tiomanicus*	Malaysian Wood Rat	Native	LC	LC	0	1
5	Mustelidae	*Lutrogale perspicillata*	Smooth-coated Otter	Native	EN	VU	0	1
6	Soricidae	*Suncus murinus*	Asian House Shrew	Introduced	LC	LC	0	0
7	Suidae	*Sus scrofa*	Wild Pig	Native	LC	LC	0	0
8	Tupaiidae	*Tupaia glis*	Common Malayan Treeshrew	Native	LC	LC	1	1
9	Viverridae	*Paradoxurus musangus*	Common Palm Civet	Native	LC	LC	0	0
10		*Felis catus*	Feral Cat				0	1
11	Muridae	*Mus musculus*	Asian House Mouse	Native	LC	LC	0	0
12	Cynocephalidae	*Galeopterus variegatus*	Malayan Colugo	Native	NT	LC	1	0
13	Canidae	*Canis lupus familiaris*	Feral Dog	Introduced	Not applicable	LC	1	1
14	Pteropodidae	*Cynopterus brachyotis*	Lesser Dog-faced Fruit Bat	Native	LC	LC	1	1
15	Vespertilionidae	*Myotis muricola*	Whiskered Myotis	Native	LC	LC	1	1
16	Vespertilionidae	*Scotophilus kuhlii*	Lesser Asian House Bat	Native	LC	LC	1	1
17	Vespertilionidae	*Pipistrellus stenopterus*	Narrow-winged Pipistrelle	Native	LC	LC	1	0
18	Emballonuridae	*Taphozous melanopogon*	Black-bearded Tomb Bat	Native	LC	LC	1	0
19	Emballonuridae	*Saccolaimus saccolaimus*	Pouched Tomb Bat	Native	LC	LC	1	0
20	Vespertilionidae	*Myotis adversus*	Large-footed Myotis	Native	0	LC	0	0
21	Vespertilionidae	*Pipistrellus javanicus*	Javan Pipistrelle	Native	LC	LC	0	0
22	Vespertilionidae	*Tylonycteris fulvida*	Lesser Bamboo Bat	Native	VU	LC	0	0
23	Vespertilionidae	*Tylonycteris malayana*	Greater Bamboo Bat	Native	VU	LC	0	0
0		*Tylonycteris sp.*	Bamboo Bat				0	1
0	Emballonuridae		-					1

Table 3. List of herpetofauna found in the project study area

No.	Family	Species name	Common Name	Local Status	Local Conservation Status	IUCN status	Present Surveys	Previous Surveys Recorded (AECOM)
Reptiles								
1	Colubridae	*Dendrelaphis pictus*	Painted Bronzeback	Native	LC	LC	1	1
2	Agamidae	*Bronchocela cristatella*	Green Crested Lizard	Native	LC	LC	1	0
3	Agamidae	*Calotes versicolor*	Changeable Lizard	Introduced	Not Applicable	LC	1	1
4	Gekkonidae	*Gekko monarchus*	Spotted House Gecko	Native	LC	LC	1	1
5	Gekkonidae	*Hemidactylus frenatus*	Spiny-tailed House Gecko	Native	LC	LC	1	1
6	Colubridae	*Ahaetulla prasina*	Oriental Whip Snake	Native	LC	LC	1	0
14	Cylindrophiidae	*Cylindrophis ruffus*	Red-tailed Pipe Snake	Native	VU	LC	0	1
16	Emydidae	*Trachemys scripta elegans*	Red-eared Slider	Introduced	Not Applicable	LC	1	1
23	Scincidae	*Eutropis multifasciatus*	Many-lined Sun Skink	Native	LC	LC	1	0
25	Trionychidae	*Pelodiscus sinensis*	Chinese Softshell Turtle	Introduced	Not Applicable	VU	0	1
27	Varanidae	*Varanus salvator*	Malayan Water Monitor	Native	LC	LC	1	1
29	Geomydidae	*Cuora amboinensis*	Malayan Box Terrapin	Native	NT	VU	1	0
Amphibians								
1	Bufonidae	*Duttaphrynus melanostictus*	Asian Toad	Native	LC	LC	1	1
2	Dicroglossidae	*Limnonectes blythii*	Malayan Giant Frog	Native	LC	NT	1	1
3	Dicroglossidae	*Fejervarya cancrivora*	Crab-eating Frog	Native	LC	LC	1	0
4	Rhacophoridae	*Polypedates leucomystax*	Four-lined Tree Frog	Native	LC	LC	1	1
5	Microhylidae	*Microhyla heymonsi*	Dark-sided Chorus Frog	Native	LC	LC	1	1
6	Microhylidae	*Microhyla fissipes*	East Asian Ornate Chorus Frog	kotic / Introduce	Not Applicable	LC	1	1
7	Eleutherodactylidae	*Eleutherodactylus planirostris*	Greenhouse Frog	Introduced	Not Applicable	LC	1	1
8	Microhylidae	*Kaloula pulchra*	Banded Bullfrog	Introduced	Not Applicable	LC	1	1
9	Microhylidae	*Microhyla mukhlesuri*	ukhlesur's Narrow-mouthed Fr	Introduced	Not Applicable	LC	1	0
10	Dicroglossidae	*Fejervarya limnocharis*	Field Frog	Native	LC	LC	0	1
11	Microhylidae	*Microhyla butleri*	Painted Chorus Frog	Native	LC	LC	0	1
12	Ranidae	*Hylarana erythraea*	Common Greenback	Native	LC	LC	0	0
13	Ranidae	*Lithobates catesbeianus*	American Bullfrog	Introduced	Not Applicable	LC	0	0
14	Ranidae	*Sylvirana guentheri*	Gunther's Frog	Introduced	Not Applicable	LC	0	0

Table 4. List of butterflies found in the project study area

No.	Family	Subfamily	Species name	Common Name	Local Status (Butterflies	based on local status	IUCN status	Present	Previous Surveys
1	Papilionidae	Papilioninae	*Papilio polytes romulus*	Common Mormon	Common	LC	-	1	1
2	Pieridae	Pierinae	*Appias libythea olferna*	Striped Albatross	Common	LC	-	1	1
3	Pieridae	Coliadinae	*Catopsilia pomona pomona*	Lemon Emigrant	Common	LC	-	1	0
4	Pieridae	Coliadinae	*Catopsilia scylla cornelia*	Orange Emigrant	Common	LC	-	1	1
5	Pieridae	Coliadinae	*Eurema blanda snelleni*	Three spot Grass Yellow	Common	LC	-	1	1
6	Pieridae	Coliadinae	*Eurema hecabe contubernalis*	Common Grass Yellow	Common	LC	-	1	1
7	Pieridae	Coliadinae	*Eurema sari sodalis*	Chocolate Grass Yellow	Moderately Common	NT	-	1	0
8	Pieridae	Pierinae	*Leptosia nina malayana*	Psyche	Common	LC	-	1	0
9	Nymphalidae	Satyrinae	*Elymnias hypermnestra agina*	Common Palmfly	Common	LC	-	1	1
10	Nymphalidae	Satyrinae	*Mycalesis perseoides perseoides*	Burmese Bush Brown	Common	LC	-	1	1
11	Nymphalidae	Nymphalinae	*Junonia almana javana*	Peacock Pansy	Common	LC	LC	1	1
12	Nymphalidae	Nymphalinae	*Junonia hedonia ida*	Chocolate Pansy	Common	LC	-	1	1
13	Nymphalidae	Heliconiinae	*Acraea terpsicore*	Tawny Coster	Common	LC	-	1	1
14	Hesperiidae	Hesperiinae	*Polytremis lubricans lubricans*	Contiguous Swift	Common	LC	-	1	1
15	Papilionidae	Papilioninae	*Papilio demoleus malayanus*	Lime Butterfly	Common	LC	-	1	0
16	Nymphalidae	Danainae	*Danaus chrysippus chrysippus*	Plain Tiger	Common	LC	-	1	0
17	Nymphalidae	Danainae	*Danaus genutia genutia*	Common Tiger	Moderately Common	NT	-	1	0
20	Hesperiidae	Hesperiinae	*Astictopterus jama jama*	Forest Hopper	Moderately Rare	VU	-	0	1
29	Hesperiidae	Hesperiinae	*Cephrenes trichopepla*	Yellow Palm Dart	Common	LC	-	0	1
37	Hesperiidae	Hesperiinae	*Iambrix salsala salsala*	Chestnut Bob	Common	LC	-	1	1
44	Hesperiidae	Hesperiinae	*Pelopidas mathias mathias*	Small Branded Swift	Common	LC	-	0	1
46	Hesperiidae	Hesperiinae	*Potanthus omaha omaha*	Lesser Dart	Common	LC	-	0	1
78	Lycaenidae	Polyommatinae	*Jamides celeno aelianus*	Common Caerulean	Common	LC	-	1	0
79	Lycaenidae	Polyommatinae	*Lampides boeticus*	Pea Blue	Common	LC	LC	0	1
97	Lycaenidae	Miletinae	*Spalgis epius epius*	Apefly	Moderately Common	NT	-	0	1
107	Lycaenidae	Polyommatinae	*Zizina otis lampa*	Lesser Grass Blue	Common	LC	-	0	1
108	Lycaenidae	Polyommatinae	*Zizula hylax pygmaea*	Pygmy Grass Blue	Common	LC	-	0	1
109	Nymphalidae	Satyrinae	*Amathusia phidippus phidippus*	Palm King	Moderately Rare	VU	-	1	1
114	Nymphalidae	Satyrinae	*Elymnias panthera panthera*	Tawny Palmfly	Moderately Common	NT	-	0	1
115	Nymphalidae	Limenitidinae	*Euthalia aconthea gurda*	Baron	Common	LC	-	0	1
121	Nymphalidae	Danainae	*Ideopsis vulgaris macrina*	Blue Glassy Tiger	Common	LC	LC	1	0
125	Nymphalidae	Satyrinae	*Melanitis leda leda*	Common Evening Brown	Moderately Rare	VU	-	0	1
126	Nymphalidae	Limenitidinae	*Moduza procris milonia*	Commander	Moderately Common	NT	-	0	1
129	Nymphalidae	Satyrinae	*Mycalesis visala phamis*	Long Brand Bush Brown	Moderately Common	NT	-	1	1
130	Nymphalidae	Limenitidinae	*Neptis hylas papaja*	Common Sailor	Moderately Common	NT	-	0	1
133	Nymphalidae	Limenitidinae	*Phaedyma columella singa*	Short Banded Sailor	Common	LC	-	0	1
148	Pieridae	Pierinae	*Delias hyparete metarete*	Painted Jezebel	Common	LC	-	0	1
149	Pieridae	Coliadinae	*Eurema andersonii andersonii*	Anderson's Grass Yellow	Moderately Common	NT	LC	0	1
0	Nymphalidae	Nymphalinae	*Hypolimnas bolina*	-		0		1	1
0	Hesperiidae	Hesperiidae	*Baoris sp.*	-		0		0	1

Table 5. List of odonates found in the project study area

No.	Family	Species name	Common Name	Distribution and Rarity	Local Conservation Status	IUCN status	Present Surveys	Previous Surveys Recorded (AECOM)
1	Coenagrionidae	*Pseudagrion microcephalum*	Blue Sprite	Widespread & Common	LC	LC	1	1
2	Libellulidae	*Acisoma panorpoides*	Trumpet Tail	Widespread & Common	LC	LC	1	0
3	Libellulidae	*Agrionoptera insignis*	Grenadier	Widespread & Common	LC	LC	1	1
4	Libellulidae	*Crocothemis servilia*	Common Scarlet	Widespread & Common	LC	LC	1	1
5	Libellulidae	*Diplacodes trivialis*	Blue Percher	Widespread & Common	LC	LC	1	0
6	Libellulidae	*Neurothemis fluctuans*	Common Parasol	Widespread & Common	LC	LC	1	1
7	Libellulidae	*Orthetrum chrysis*	Spine-tufted Skimmer	Widespread & Common	LC	LC	1	1
8	Libellulidae	*Orthetrum sabina*	Variegated Green Skimmer	Widespread & Common	LC	LC	1	1
9	Libellulidae	*Rhyothemis phyllis*	Yellow-barred Flutterer	Widespread & Common	LC	LC	1	0
10	Libellulidae	*Macrodiplax cora*	Coastal Glider	Widespread & Common	LC	LC	1	0
11	Libellulidae	*Trithemis aurora*	Crimson Dropwing	Widespread & Common	LC	LC	1	0
12	Coenagrionidae	*Ischnura senegalensis*	Common Bluetail	Widespread & Common	LC	LC	1	1
13	Libellulidae	*Trithemis pallidinervis*	Dancing Dropwing	Widespread but Uncommon	LC	LC	1	1
14	Libellulidae	*Lathrecista asiatica*	Scarlet Grenadier	Widespread & Common	LC	LC	1	1
15	Aeshnidae	*Anax guttatus*	Emperor	Widespread but Uncommon	LC	LC	0	0
16	Coenagrionidae	*Agriocnemis femina*	Variable Wisp	Widespread & Common	LC	LC	0	1
17	Coenagrionidae	*Argiocnemis rubescens*	Variable Sprite	Widespread but Uncommon	LC	LC	0	0
18	Coenagrionidae	*Ceriagrion cerinorubellum*	Ornate Coraltail	Widespread & Common	LC	LC	1	1
19	Gomphidae	*Ictinogomphus decoratus*	Common Flangetail	Widespread & Common	LC	LC	0	0
20	Libellulidae	*Aethriamanta aethra*	Blue Adjudant	Widespread but Uncommon	LC	LC	0	0
21	Libellulidae	*Aethriamanta brevipennis*	Scarlet Adjudant	Widespread but Uncommon	LC	LC	0	0
22	Libellulidae	*Aethriamanta gracilis*	Pond Adjudant	Widespread & Common	LC	LC	0	0
23	Libellulidae	*Brachydiplax chalybea*	Blue Dasher	Widespread & Common	LC	LC	0	1
24	Libellulidae	*Brachythemis contaminata*	Common Amberwing	Widespread & Common	LC	LC	0	0
25	Libellulidae	*Camacinia gigantea*	Sultan	Widespread but Uncommon	LC	LC	0	0
26	Libellulidae	*Crocothemis servilia*	Common Scarlet	Widespread & Common	LC	LC	0	1
27	Libellulidae	*Diplacodes nebulosa*	Black-tipped Percher	Widespread but Uncommon	LC	LC	0	0
28	Libellulidae	*Nannophya pygmaea*	Scarlet Pygmy	Widespread & Common	LC	LC	0	0
29	Libellulidae	*Orchithemis pulcherrima*	Variable Sentinel	Widespread & Common	LC	LC	0	0
30	Libellulidae	*Orthetrum luzonicum*	Slender Blue Skimmer	Widespread & Common	LC	LC	0	0
31	Libellulidae	*Orthetrum testaceum*	Scarlet Skimmer	Widespread & Common	LC	LC	0	0
32	Libellulidae	*Potamarcha congener*	Common Chaser	Widespread & Common	LC	LC	0	0
33	Libellulidae	*Pseudothemis jorina*	Banded Skimmer	Widespread but Uncommon	LC	LC	0	0
34	Libellulidae	*Rhodothemis rufa*	Common Redbolt	Widespread & Common	LC	LC	0	0
35	Libellulidae	*Rhyothemis obsolescens*	Bronze Flutterer	Widespread but Uncommon	LC	LC	0	0
36	Libellulidae	*Rhyothemis triangularis*	Sapphire Flutterer	Widespread but Uncommon	LC	LC	0	0
37	Libellulidae	*Tholymis tillarga*	White-barred Duskhawk	Widespread & Common	LC	LC	0	1

No.	Family	Species name	Common Name	Distribution and Rarity	Local Conservation Status	IUCN status	Present Surveys	Previous Surveys Recorded (AECOM)
38	Libellulidae	*Tramea transmarina*	Saddlebag Glider	Widespread & Common	LC	LC	0	0
39	Libellulidae	*Urothemis signata insignata*	Scarlet Basker	Widespread & Common	LC	-	0	0
40	Libellulidae	*Zyxomma petiolatum*	Slender Duskdarter	Widespread & Common	LC	LC	0	0
41	Aeshnidae	*Gynacantha subinterrupta*	Dingy Duskhawker	Widespread but Uncommon	LC	LC	0	1

Table 6. List of aquatic fauna found in the project study area

No	Family	Species name	Common Name	Local Status (NParks for freshwater fish)	local status (adapted)	Local Conservation Status	IUCN status	Present Surveys	Previous Surveys Recorded (AECOM)
	Freshwater Fish								
1	Cyprinidae (carps and relatives)	*Barbodes rhomebus*	Indochinese Spotted Barb	I	-	0	LC	1	1
2	Poeciliidae (live-bearing toothcarps)	*Poecilia reticulata*	Guppy	I	-	0	LC	1	1
3	Channidae (snakeheads)	*Channa striata*	Common Snakehead	N	-	0	LC	1	1
4	Poeciliidae (live-bearing toothcarps)	*Gambusia affinis*	Mosquitofish	I	-	0	LC	1	0
5	Anabantidae (climbing perches)	*Anabas testudineus*	Oriental Climbing Perch	N	-	0	LC	0	1
8	Cyprinidae (carps and relatives)	*Brachydanio albolineata*	Pearl Danio	I	-	0	LC	0	1
9	Cyprinidae (carps and relatives)	*Cyprinus carpio*	Common Carp	I	-	0	VU	0	1
16	Osphronemidae (gouramies and fighting-fish	*Trichogaster trichopterus*	Threespot Gouramy	N	-	0	LC	0	1
	Decapod Crustaceans								
	Molluscs								
1	*Physidae*	*Physa acuta*	Acute bladder snail	Introduced	-	0	0	1	1
2	*Planorbidae*	*Amerianna carinata*	Keeled Ramshorn	Introduced	-			1	0
3	*Ampullariidae*	*Pila scutata*	Apple Snail	Native, Rare	EN	0	LC	1	0
4	*Melanoides*	*Melanoides tuberculata*	Malayan Trumpet Snail	Native, Common	LC	-	LC	1	0

APPENDIX E

Photographs of Animals Observed at Study Area

Appendix E – Photographs of Animals Observed at Project Study Area

Blue -throated bee – eater



Straw – headed bulbul



Oriental dollarbird



Red – breasted parakeet



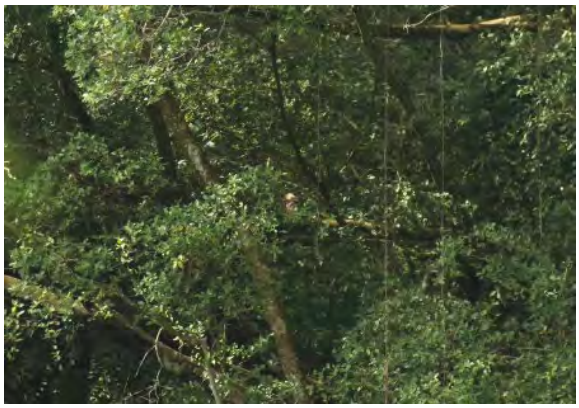
Spotted – dove



Raptor -nest



Changeable hawk



Purple – heron

Buffy fish owl



Large-tailed nightjar



Dark – necked tailorbird



Coastal glider



Common – bluetail



Common- bluetail 2



Common – scarlet



Common – scarlet 2



Dancing – dropwing



Variegated green skimmer



Yellow – barred flutterer



Scarlet grenadier



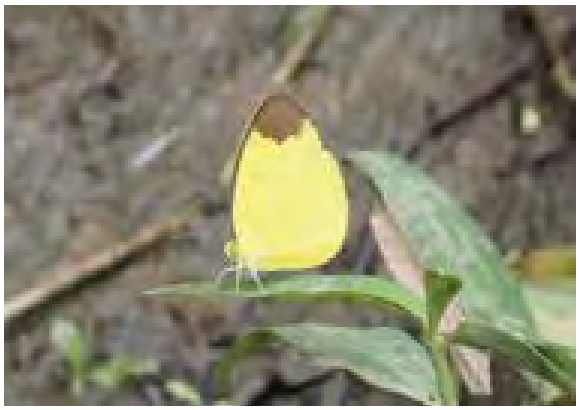
Spined – tufted skimmer



Bushbrown



Chocolate grass yellow



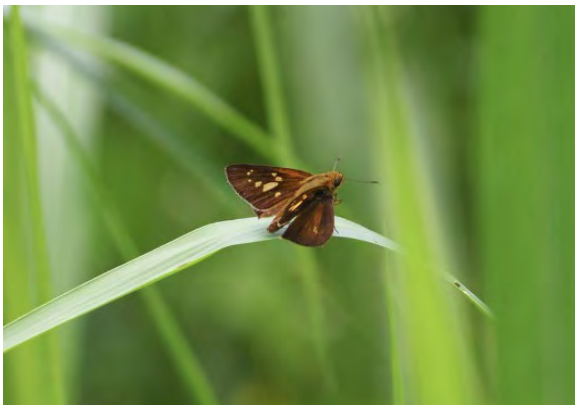
Common grass yellow



Orange emigrant



Skipper sp.



Tawny coster



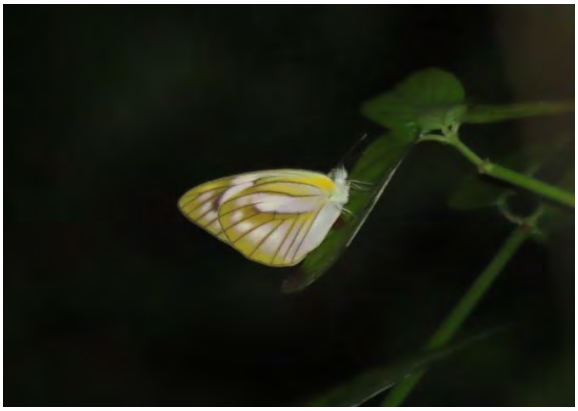
Three spot grass yellow



Lime butterfly



Striped albatross



Palm king



Banded bullfrog



Crab eating frog



Malayan giant frog



Asian toad



Red – eared slider



Oriental whip snake



Painted bronzeback



Green crested lizard



Common snakehead



Indonesia spotted barb



Guppy sp.



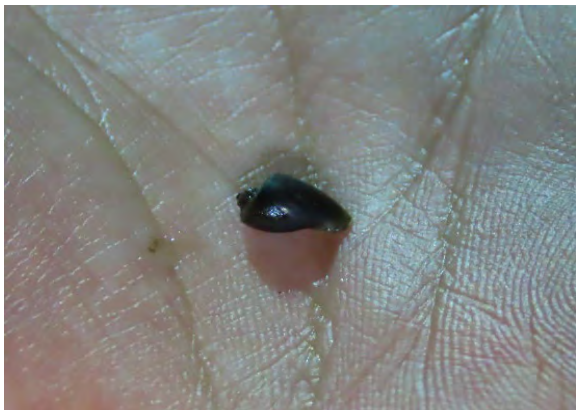
Bladder snail



Malayan trumpet snail



Keeled ramshorn



Pila scutata



APPENDIX F

Baseline Surface Water Quality Laboratory Test Report

ASTAR LABORATORY PTE LTD
ENVIRONMENTAL CONSULTANTS & TESTING

27 Gul Avenue, Singapore 629667
Tel: 63396136 Fax: 62557608 Email: admin@astarlab.com
Company Registration No. & GST: 201323826G

ACCREDITED LABORATORY SAC-SINGLAS Certificate No. : LA-2014-0578-F

TEST REPORT NO: ASL-W1403-22

Company Name : Tembusu Asia Consulting Pte. Ltd.
Address : 1 Commonwealth Ln, #06-06 One Commonwealth, Singapore 149544
Date Received : 26 August 2022
Date Tested : 26 August 2022 – 02 September 2022
Date Reported : 05 September 2022
Sample Description : One (1) sample of water.

The sampling was done by our technical personnel (with reference to SOP-WAT-101) on 26 August 2022 which consisted of 1 x 1L plastic and 1 x 500mL sterilized plastic bottle and marked as shown below:

WS1-1 (DRY)

On analysis, the following results were obtained:

Test	Method	Result	Maximum Allowable Limits for Trade Effluent Discharge into Controlled Watercourse
Temperature, °C (On-Site)	APHA 2550 B	27.3	45
pH @ 25°C (On-Site)	APHA 4500-H-B	7.6	Not less than 6 Not more than 9
Turbidity, NTU (On-Site)	APHA 2130 B	5.7	-
Conductivity, µS/cm (On-Site)	APHA 2510 B	428	-
Dissolved Oxygen, mg/L (On-Site)	APHA 4500-O-G	6.10	-
Total Dissolved Solids, mg/L (On-Site)	APHA 2540 C	214	1000
Total Suspended Solids, mg/L	APHA 2540 D	**188**	30
Total Organic Carbon (TOC), mg/L	APHA 5310 B	3.88	-
Total Nitrogen, mg/L	SOP-WAT-048	4.5	-
Total Phosphorus, mg/L	SOP-WAT-020	1.1	-
Nitrate as N, mg/L	SOP-WAT-025	0.1	20
Phosphate as P, mg/L	SOP-WAT-020	1.1	2
Ammoniacal Nitrogen, mg/L	APHA 4500-NH_3-E	4.36	-
Arsenic (As), mg/L	APHA 3120 B	<0.01	0.01
Cadmium (Cd), mg/L	APHA 3120 B	<0.003	0.003
Copper (Cu), mg/L	APHA 3120 B	<0.10	0.1
Lead (Pb), mg/L	APHA 3120 B	<0.10	0.1
Zinc (Zn), mg/L	APHA 3120 B	<0.10	0.5
Nickel (Ni), mg/L	APHA 3120 B	<0.10	0.1
Iron (Fe), mg/L	APHA 3120 B	0.19	1
Chromium (Cr), mg/L	APHA 3120 B	<0.05	0.05
Mercury (Hg), mg/L	VGA/ICPOES	**0.016**	0.001
Enterococcus, cfu/100mL	APHA 9230 C	2600	-

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The results reported herein have been performed in accordance with the terms of accreditation under the Singapore Accreditation Council."

Remarks: 1) The above results were tested as per sample received and evaluated based on "Allowable limits for trade effluent discharge to Controlled Watercourse, as stipulated by National Environment Agency (NEA).

2) < = Less than

Roselle Monteloyola
Laboratory Manager

"The report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported herein have been performed in accordance with the terms of accreditation under the Singapore Accreditation Council."

ASTAR LABORATORY PTE LTD
ENVIRONMENTAL CONSULTANTS & TESTING

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Tel: 63396136 Fax: 62557608 Email: admin@astarlab.com
Company Registration No. & GST: 201323826G

ACCREDITED LABORATORY SAC-SINGLAS Certificate No. : LA-2014-0578-F

TEST REPORT NO: ASL-W1404-22

Company Name : Tembusu Asia Consulting Pte. Ltd.
Address : 1 Commonwealth Ln, #06-06 One Commonwealth, Singapore 149544
Date Received : 26 August 2022
Date Tested : 26 August 2022 – 02 September 2022
Date Reported : 05 September 2022
Sample Description : One (1) sample of water.

The sampling was done by our technical personnel (with reference to SOP-WAT-101) on 26 August 2022 which consisted of 1 x 1L plastic and 1 x 500mL sterilized plastic bottle and marked as shown below:

WS2-1 (DRY)

On analysis, the following results were obtained:

Test	Method	Result	Maximum Allowable Limits for Trade Effluent Discharge into Controlled Watercourse
Temperature, °C (On-Site)	APHA 2550 B	29.0	45
pH @ 25°C (On-Site)	APHA 4500-H-B	7.4	Not less than 6 Not more than 9
Turbidity, NTU (On-Site)	APHA 2130 B	6.1	-
Conductivity, µS/cm (On-Site)	APHA 2510 B	278	-
Dissolved Oxygen, mg/L (On-Site)	APHA 4500-O-G	7.32	-
Total Dissolved Solids, mg/L (On-Site)	APHA 2540 C	139	1000
Total Suspended Solids, mg/L	APHA 2540 D	**69.0**	30
Total Organic Carbon (TOC), mg/L	APHA 5310 B	5.81	-
Total Nitrogen, mg/L	SOP-WAT-048	4.8	-
Total Phosphorus, mg/L	SOP-WAT-020	1.1	-
Nitrate as N, mg/L	SOP-WAT-025	<0.1	20
Phosphate as P, mg/L	SOP-WAT-020	1.1	2
Ammoniacal Nitrogen, mg/L	APHA 4500-NH_3-E	4.66	-
Arsenic (As), mg/L	APHA 3120 B	<0.01	0.01
Cadmium (Cd), mg/L	APHA 3120 B	<0.003	0.003
Copper (Cu), mg/L	APHA 3120 B	<0.10	0.1
Lead (Pb), mg/L	APHA 3120 B	<0.10	0.1
Zinc (Zn), mg/L	APHA 3120 B	0.13	0.5
Nickel (Ni), mg/L	APHA 3120 B	<0.10	0.1
Iron (Fe), mg/L	APHA 3120 B	**1.10**	1
Chromium (Cr), mg/L	APHA 3120 B	<0.05	0.05
Mercury (Hg), mg/L	VGA/ICPOES	<0.001	0.001
Enterococcus, cfu/100mL	APHA 9230 C	8	-

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Remarks: 1) The above results were tested as per sample received and evaluated based on "Allowable limits for trade effluent discharge to Controlled Watercourse, as stipulated by National Environment Agency (NEA).

2) < = Less than

Roselle Monteloyola
Laboratory Manager

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ENVIRONMENTAL CONSULTANTS & TESTING

27 Gul Avenue, Singapore 629667
Tel: 63396136 Fax: 62557608 Email: admin@astarlab.com
Company Registration No. & GST: 201323826G

ACCREDITED LABORATORY SAC-SINGLAS Certificate No. : LA-2014-0578-F

TEST REPORT NO: ASL-W1405-22

Company Name : Tembusu Asia Consulting Pte. Ltd.
Address : 1 Commonwealth Ln, #06-06 One Commonwealth, Singapore 149544
Date Received : 26 August 2022
Date Tested : 26 August 2022 – 02 September 2022
Date Reported : 05 September 2022
Sample Description : One (1) sample of water.

The sampling was done by our technical personnel (with reference to SOP-WAT-101) on 26 August 2022 which consisted of 1 x 1L plastic and 1 x 500mL sterilized plastic bottle and marked as shown below:

WS3-1 (DRY)

On analysis, the following results were obtained:

Test	Method	Result	Maximum Allowable Limits for Trade Effluent Discharge into Controlled Watercourse
Temperature, °C (On-Site)	APHA 2550 B	26.3	45
pH @ 25°C (On-Site)	APHA 4500-H-B	6.3	Not less than 6 Not more than 9
Turbidity, NTU (On-Site)	APHA 2130 B	55	-
Conductivity, µS/cm (On-Site)	APHA 2510 B	207	-
Dissolved Oxygen, mg/L (On-Site)	APHA 4500-O-G	0.99	-
Total Dissolved Solids, mg/L (On-Site)	APHA 2540 C	103	1000
Total Suspended Solids, mg/L	APHA 2540 D	19.3	30
Total Organic Carbon (TOC), mg/L	APHA 5310 B	2.38	-
Total Nitrogen, mg/L	SOP-WAT-048	2.8	-
Total Phosphorus, mg/L	SOP-WAT-020	0.2	-
Nitrate as N, mg/L	SOP-WAT-025	<0.1	20
Phosphate as P, mg/L	SOP-WAT-020	0.2	2
Ammoniacal Nitrogen, mg/L	APHA 4500-NH_3-E	2.60	-
Arsenic (As), mg/L	APHA 3120 B	<0.01	0.01
Cadmium (Cd), mg/L	APHA 3120 B	<0.003	0.003
Copper (Cu), mg/L	APHA 3120 B	<0.10	0.1
Lead (Pb), mg/L	APHA 3120 B	<0.10	0.1
Zinc (Zn), mg/L	APHA 3120 B	<0.10	0.5
Nickel (Ni), mg/L	APHA 3120 B	<0.10	0.1
Iron (Fe), mg/L	APHA 3120 B	0.12	1
Chromium (Cr), mg/L	APHA 3120 B	<0.05	0.05
Mercury (Hg), mg/L	VGA/ICPOES	**0.002**	0.001
Enterococcus, cfu/100mL	APHA 9230 C	7000	-

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2) < = Less than

Roselle Monteloyola
Laboratory Manager

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Company Registration No. & GST: 201323826G

ACCREDITED LABORATORY SAC-SINGLAS Certificate No. : LA-2014-0578-F

TEST REPORT NO: ASL-W1406-22

Company Name : Tembusu Asia Consulting Pte. Ltd.
Address : 1 Commonwealth Ln, #06-06 One Commonwealth, Singapore 149544
Date Received : 26 August 2022
Date Tested : 26 August 2022 – 02 September 2022
Date Reported : 05 September 2022
Sample Description : One (1) sample of water.

The sampling was done by our technical personnel (with reference to SOP-WAT-101) on 26 August 2022 which consisted of 1 x 1L plastic and 1 x 500mL sterilized plastic bottle and marked as shown below:

WS4-1 (DRY)

On analysis, the following results were obtained:

Test	Method	Result	Maximum Allowable Limits for Trade Effluent Discharge into Controlled Watercourse
Temperature, °C (On-Site)	APHA 2550 B	28.4	45
pH @ 25°C (On-Site)	APHA 4500-H-B	7.7	Not less than 6 Not more than 9
Turbidity, NTU (On-Site)	APHA 2130 B	1.5	-
Conductivity, µS/cm (On-Site)	APHA 2510 B	85	-
Dissolved Oxygen, mg/L (On-Site)	APHA 4500-O-G	5.97	-
Total Dissolved Solids, mg/L (On-Site)	APHA 2540 C	43	1000
Total Suspended Solids, mg/L	APHA 2540 D	**167**	30
Total Organic Carbon (TOC), mg/L	APHA 5310 B	3.74	-
Total Nitrogen, mg/L	SOP-WAT-048	3.0	-
Total Phosphorus, mg/L	SOP-WAT-020	0.1	-
Nitrate as N, mg/L	SOP-WAT-025	<0.1	20
Phosphate as P, mg/L	SOP-WAT-020	0.1	2
Ammoniacal Nitrogen, mg/L	APHA 4500-NH_3-E	3.03	-
Arsenic (As), mg/L	APHA 3120 B	<0.01	0.01
Cadmium (Cd), mg/L	APHA 3120 B	<0.003	0.003
Copper (Cu), mg/L	APHA 3120 B	<0.10	0.1
Lead (Pb), mg/L	APHA 3120 B	<0.10	0.1
Zinc (Zn), mg/L	APHA 3120 B	0.15	0.5
Nickel (Ni), mg/L	APHA 3120 B	<0.10	0.1
Iron (Fe), mg/L	APHA 3120 B	**2.07**	1
Chromium (Cr), mg/L	APHA 3120 B	<0.05	0.05
Mercury (Hg), mg/L	VGA/ICPOES	<0.001	0.001
Enterococcus, cfu/100mL	APHA 9230 C	645	-

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Remarks: 1) The above results were tested as per sample received and evaluated based on "Allowable limits for trade effluent discharge to Controlled Watercourse, as stipulated by National Environment Agency (NEA).

2) < = Less than

Roselle Monteloyola
Laboratory Manager

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Company Registration No. & GST: 201323826G

ACCREDITED LABORATORY SAC-SINGLAS Certificate No. : LA-2014-0578-F

TEST REPORT NO: ASL-W1407-22

Company Name : Tembusu Asia Consulting Pte. Ltd.
Address : 1 Commonwealth Ln, #06-06 One Commonwealth, Singapore 149544
Date Received : 26 August 2022
Date Tested : 26 August 2022 – 02 September 2022
Date Reported : 05 September 2022
Sample Description : One (1) sample of water.

The sampling was done by our technical personnel (with reference to SOP-WAT-101) on 26 August 2022 which consisted of 1 x 1L plastic and 1 x 500mL sterilized plastic bottle and marked as shown below:

WS1-1 (WET)

On analysis, the following results were obtained:

Test	Method	Result	Maximum Allowable Limits for Trade Effluent Discharge into Controlled Watercourse
Temperature, °C (On-Site)	APHA 2550 B	27.4	45
pH @ 25°C (On-Site)	APHA 4500-H-B	8.2	Not less than 6 Not more than 9
Turbidity, NTU (On-Site)	APHA 2130 B	33	-
Conductivity, µS/cm (On-Site)	APHA 2510 B	256	-
Dissolved Oxygen, mg/L (On-Site)	APHA 4500-O-G	5.32	-
Total Dissolved Solids, mg/L (On-Site)	APHA 2540 C	128	1000
Total Suspended Solids, mg/L	APHA 2540 D	4.0	30
Total Organic Carbon (TOC), mg/L	APHA 5310 B	1.94	-
Total Nitrogen, mg/L	SOP-WAT-048	1.1	-
Total Phosphorus, mg/L	SOP-WAT-020	0.1	-
Nitrate as N, mg/L	SOP-WAT-025	<0.1	20
Phosphate as P, mg/L	SOP-WAT-020	0.1	2
Ammoniacal Nitrogen, mg/L	APHA 4500-NH_3-E	0.99	-
Arsenic (As), mg/L	APHA 3120 B	<0.01	0.01
Cadmium (Cd), mg/L	APHA 3120 B	<0.003	0.003
Copper (Cu), mg/L	APHA 3120 B	<0.10	0.1
Lead (Pb), mg/L	APHA 3120 B	<0.10	0.1
Zinc (Zn), mg/L	APHA 3120 B	<0.10	0.5
Nickel (Ni), mg/L	APHA 3120 B	<0.10	0.1
Iron (Fe), mg/L	APHA 3120 B	<0.10	1
Chromium (Cr), mg/L	APHA 3120 B	<0.05	0.05
Mercury (Hg), mg/L	VGA/ICPOES	<0.001	0.001
Enterococcus, cfu/100mL	APHA 9230 C	627	-

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Remarks: 1) The above results were tested as per sample received and evaluated based on "Allowable limits for trade effluent discharge to Controlled Watercourse, as stipulated by National Environment Agency (NEA).

2) < = Less than

Roselle Monteloyola
Laboratory Manager

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Company Registration No. & GST: 201323826G

ACCREDITED LABORATORY SAC-SINGLAS Certificate No. : LA-2014-0578-F

TEST REPORT NO: ASL-W1408-22

Company Name : Tembusu Asia Consulting Pte. Ltd.
Address : 1 Commonwealth Ln, #06-06 One Commonwealth, Singapore 149544
Date Received : 26 August 2022
Date Tested : 26 August 2022 – 02 September 2022
Date Reported : 05 September 2022
Sample Description : One (1) sample of water.

The sampling was done by our technical personnel (with reference to SOP-WAT-101) on 26 August 2022 which consisted of 1 x 1L plastic and 1 x 500mL sterilized plastic bottle and marked as shown below:

WS2-1 (WET)

On analysis, the following results were obtained:

Test	Method	Result	Maximum Allowable Limits for Trade Effluent Discharge into Controlled Watercourse
Temperature, °C (On-Site)	APHA 2550 B	27.6	45
pH @ 25°C (On-Site)	APHA 4500-H-B	7.6	Not less than 6 Not more than 9
Turbidity, NTU (On-Site)	APHA 2130 B	37	-
Conductivity, µS/cm (On-Site)	APHA 2510 B	236	-
Dissolved Oxygen, mg/L (On-Site)	APHA 4500-O-G	6.35	-
Total Dissolved Solids, mg/L (On-Site)	APHA 2540 C	118	1000
Total Suspended Solids, mg/L	APHA 2540 D	6.0	30
Total Organic Carbon (TOC), mg/L	APHA 5310 B	2.15	-
Total Nitrogen, mg/L	SOP-WAT-048	1.1	-
Total Phosphorus, mg/L	SOP-WAT-020	0.2	-
Nitrate as N, mg/L	SOP-WAT-025	<0.1	20
Phosphate as P, mg/L	SOP-WAT-020	0.2	2
Ammoniacal Nitrogen, mg/L	APHA 4500-NH_3-E	1.10	-
Arsenic (As), mg/L	APHA 3120 B	<0.01	0.01
Cadmium (Cd), mg/L	APHA 3120 B	<0.003	0.003
Copper (Cu), mg/L	APHA 3120 B	<0.10	0.1
Lead (Pb), mg/L	APHA 3120 B	<0.10	0.1
Zinc (Zn), mg/L	APHA 3120 B	<0.10	0.5
Nickel (Ni), mg/L	APHA 3120 B	<0.10	0.1
Iron (Fe), mg/L	APHA 3120 B	0.30	1
Chromium (Cr), mg/L	APHA 3120 B	<0.05	0.05
Mercury (Hg), mg/L	VGA/ICPOES	<0.001	0.001
Enterococcus, cfu/100mL	APHA 9230 C	745	-

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2) < = Less than

Roselle Monteloyola
Laboratory Manager

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Company Registration No. & GST: 201323826G

ACCREDITED LABORATORY SAC-SINGLAS Certificate No. : LA-2014-0578-F

TEST REPORT NO: ASL-W1409-22

Company Name : Tembusu Asia Consulting Pte. Ltd.
Address : 1 Commonwealth Ln, #06-06 One Commonwealth, Singapore 149544
Date Received : 26 August 2022
Date Tested : 26 August 2022 – 02 September 2022
Date Reported : 05 September 2022
Sample Description : One (1) sample of water.

The sampling was done by our technical personnel (with reference to SOP-WAT-101) on 26 August 2022 which consisted of 1 x 1L plastic and 1 x 500mL sterilized plastic bottle and marked as shown below:

WS3-1 (WET)

On analysis, the following results were obtained:

Test	Method	Result	Maximum Allowable Limits for Trade Effluent Discharge into Controlled Watercourse
Temperature, °C (On-Site)	APHA 2550 B	26.4	45
pH @ 25°C (On-Site)	APHA 4500-H-B	6.5	Not less than 6 Not more than 9
Turbidity, NTU (On-Site)	APHA 2130 B	360	-
Conductivity, µS/cm (On-Site)	APHA 2510 B	110	-
Dissolved Oxygen, mg/L (On-Site)	APHA 4500-O-G	3.22	-
Total Dissolved Solids, mg/L (On-Site)	APHA 2540 C	54	1000
Total Suspended Solids, mg/L	APHA 2540 D	24.0	30
Total Organic Carbon (TOC), mg/L	APHA 5310 B	3.93	-
Total Nitrogen, mg/L	SOP-WAT-048	0.9	-
Total Phosphorus, mg/L	SOP-WAT-020	0.3	-
Nitrate as N, mg/L	SOP-WAT-025	<0.1	20
Phosphate as P, mg/L	SOP-WAT-020	0.3	2
Ammoniacal Nitrogen, mg/L	APHA 4500-NH_3-E	0.77	-
Arsenic (As), mg/L	APHA 3120 B	**0.06**	0.01
Cadmium (Cd), mg/L	APHA 3120 B	<0.003	0.003
Copper (Cu), mg/L	APHA 3120 B	<0.10	0.1
Lead (Pb), mg/L	APHA 3120 B	<0.10	0.1
Zinc (Zn), mg/L	APHA 3120 B	<0.10	0.5
Nickel (Ni), mg/L	APHA 3120 B	<0.10	0.1
Iron (Fe), mg/L	APHA 3120 B	0.14	1
Chromium (Cr), mg/L	APHA 3120 B	<0.05	0.05
Mercury (Hg), mg/L	VGA/ICPOES	<0.001	0.001
Enterococcus, cfu/100mL	APHA 9230 C	5000	-

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2) < = Less than

Roselle Monteloyola
Laboratory Manager

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Company Registration No. & GST: 201323826G

ACCREDITED LABORATORY SAC-SINGLAS Certificate No. : LA-2014-0578-F

TEST REPORT NO: ASL-W1410-22

Company Name : Tembusu Asia Consulting Pte. Ltd.
Address : 1 Commonwealth Ln, #06-06 One Commonwealth, Singapore 149544
Date Received : 26 August 2022
Date Tested : 26 August 2022 – 02 September 2022
Date Reported : 05 September 2022
Sample Description : One (1) sample of water.

The sampling was done by our technical personnel (with reference to SOP-WAT-101) on 26 August 2022 which consisted of 1 x 1L plastic and 1 x 500mL sterilized plastic bottle and marked as shown below:

WS4-1 (WET)

On analysis, the following results were obtained:

Test	Method	Result	Maximum Allowable Limits for Trade Effluent Discharge into Controlled Watercourse
Temperature, °C (On-Site)	APHA 2550 B	27.6	45
pH @ 25°C (On-Site)	APHA 4500-H-B	7.6	Not less than 6 Not more than 9
Turbidity, NTU (On-Site)	APHA 2130 B	37	-
Conductivity, µS/cm (On-Site)	APHA 2510 B	222	-
Dissolved Oxygen, mg/L (On-Site)	APHA 4500-O-G	5.86	-
Total Dissolved Solids, mg/L (On-Site)	APHA 2540 C	111	1000
Total Suspended Solids, mg/L	APHA 2540 D	**32.3**	30
Total Organic Carbon (TOC), mg/L	APHA 5310 B	3.88	-
Total Nitrogen, mg/L	SOP-WAT-048	2.6	-
Total Phosphorus, mg/L	SOP-WAT-020	0.1	-
Nitrate as N, mg/L	SOP-WAT-025	<0.1	20
Phosphate as P, mg/L	SOP-WAT-020	0.1	2
Ammoniacal Nitrogen, mg/L	APHA 4500-NH_3-E	2.17	-
Arsenic (As), mg/L	APHA 3120 B	<0.01	0.01
Cadmium (Cd), mg/L	APHA 3120 B	**0.01**	0.003
Copper (Cu), mg/L	APHA 3120 B	<0.10	0.1
Lead (Pb), mg/L	APHA 3120 B	<0.10	0.1
Zinc (Zn), mg/L	APHA 3120 B	<0.10	0.5
Nickel (Ni), mg/L	APHA 3120 B	<0.10	0.1
Iron (Fe), mg/L	APHA 3120 B	0.56	1
Chromium (Cr), mg/L	APHA 3120 B	<0.05	0.05
Mercury (Hg), mg/L	VGA/ICPOES	<0.001	0.001
Enterococcus, cfu/100mL	APHA 9230 C	2782	-

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Remarks: 1) The above results were tested as per sample received and evaluated based on "Allowable limits for trade effluent discharge to Controlled Watercourse, as stipulated by National Environment Agency (NEA).

2) < = Less than

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Laboratory Manager

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APPENDIX G

Baseline Noise Level Monitoring Data

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Thu	11/8/2022	14:37	75	90
Thu	11/8/2022	14:42	62.4	90
Thu	11/8/2022	14:47	63.3	90
Thu	11/8/2022	14:52	56.9	90
Thu	11/8/2022	14:57	56.4	90
Thu	11/8/2022	15:02	64.3	90
Thu	11/8/2022	15:07	61.3	90
Thu	11/8/2022	15:12	56.1	90
Thu	11/8/2022	15:17	55.3	90
Thu	11/8/2022	15:22	56.9	90
Thu	11/8/2022	15:27	56.6	90
Thu	11/8/2022	15:32	53.7	90
Thu	11/8/2022	15:37	56.2	90
Thu	11/8/2022	15:42	55.1	90
Thu	11/8/2022	15:47	61.4	90
Thu	11/8/2022	15:52	54.2	90
Thu	11/8/2022	15:57	55.3	90
Thu	11/8/2022	16:02	53.4	90
Thu	11/8/2022	16:07	54.6	90
Thu	11/8/2022	16:12	53.1	90
Thu	11/8/2022	16:17	53.4	90
Thu	11/8/2022	16:22	53.8	90
Thu	11/8/2022	16:27	54.5	90
Thu	11/8/2022	16:32	54.8	90
Thu	11/8/2022	16:37	55	90
Thu	11/8/2022	16:42	57.3	90
Thu	11/8/2022	16:47	57.2	90
Thu	11/8/2022	16:52	56.6	90
Thu	11/8/2022	16:57	58	90
Thu	11/8/2022	17:02	55.2	90
Thu	11/8/2022	17:07	56.2	90
Thu	11/8/2022	17:12	56.3	90
Thu	11/8/2022	17:17	55	90
Thu	11/8/2022	17:22	56	90
Thu	11/8/2022	17:27	58.4	90
Thu	11/8/2022	17:32	55.6	90
Thu	11/8/2022	17:37	56.2	90
Thu	11/8/2022	17:42	55.9	90
Thu	11/8/2022	17:47	55.4	90
Thu	11/8/2022	17:52	55.5	90
Thu	11/8/2022	17:57	57.7	90
Thu	11/8/2022	18:02	55.5	90
Thu	11/8/2022	18:07	55.7	90
Thu	11/8/2022	18:12	55.3	90

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Thu	11/8/2022	12:54	71.7	90
Thu	11/8/2022	12:59	70.2	90
Thu	11/8/2022	13:04	69.4	90
Thu	11/8/2022	13:09	68.9	90
Thu	11/8/2022	13:14	70.9	90
Thu	11/8/2022	13:19	71.7	90
Thu	11/8/2022	13:24	70	90
Thu	11/8/2022	13:29	70.3	90
Thu	11/8/2022	13:34	69.4	90
Thu	11/8/2022	13:39	68.8	90
Thu	11/8/2022	13:44	69.1	90
Thu	11/8/2022	13:49	71	90
Thu	11/8/2022	13:54	69.3	90
Thu	11/8/2022	13:59	70	90
Thu	11/8/2022	14:04	70.2	90
Thu	11/8/2022	14:09	68	90
Thu	11/8/2022	14:14	69.4	90
Thu	11/8/2022	14:19	68.9	90
Thu	11/8/2022	14:24	68.6	90
Thu	11/8/2022	14:29	68.6	90
Thu	11/8/2022	14:34	70.4	90
Thu	11/8/2022	14:39	68.9	90
Thu	11/8/2022	14:44	69.1	90
Thu	11/8/2022	14:49	67.8	90
Thu	11/8/2022	14:54	71	90
Thu	11/8/2022	14:59	68.5	90
Thu	11/8/2022	15:04	70.1	90
Thu	11/8/2022	15:09	69.2	90
Thu	11/8/2022	15:14	69	90
Thu	11/8/2022	15:19	70.1	90
Thu	11/8/2022	15:24	70.1	90
Thu	11/8/2022	15:29	69.5	90
Thu	11/8/2022	15:34	69.5	90
Thu	11/8/2022	15:39	70.5	90
Thu	11/8/2022	15:44	71.3	90
Thu	11/8/2022	15:49	70.1	90
Thu	11/8/2022	15:54	70	90
Thu	11/8/2022	15:59	70.6	90
Thu	11/8/2022	16:04	70.1	90
Thu	11/8/2022	16:09	70.1	90
Thu	11/8/2022	16:14	70.4	90
Thu	11/8/2022	16:19	70.4	90
Thu	11/8/2022	16:24	71.2	90
Thu	11/8/2022	16:29	70.6	90

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Thu	11/8/2022	18:17	55.1	90
Thu	11/8/2022	18:22	54.3	90
Thu	11/8/2022	18:27	55.9	90
Thu	11/8/2022	18:32	56.6	90
Thu	11/8/2022	18:37	55.8	90
Thu	11/8/2022	18:42	55.6	90
Thu	11/8/2022	18:47	55	90
Thu	11/8/2022	18:52	56.5	90
Thu	11/8/2022	18:57	56.7	90
Thu	11/8/2022	19:02	55.1	70
Thu	11/8/2022	19:07	55.5	70
Thu	11/8/2022	19:12	54.7	70
Thu	11/8/2022	19:17	55.3	70
Thu	11/8/2022	19:22	55.6	70
Thu	11/8/2022	19:27	54.6	70
Thu	11/8/2022	19:32	54.7	70
Thu	11/8/2022	19:37	56.3	70
Thu	11/8/2022	19:42	53.6	70
Thu	11/8/2022	19:47	54.6	70
Thu	11/8/2022	19:52	54.8	70
Thu	11/8/2022	19:57	55.4	70
Thu	11/8/2022	20:02	54.4	70
Thu	11/8/2022	20:07	53.3	70
Thu	11/8/2022	20:12	53.1	70
Thu	11/8/2022	20:17	54.9	70
Thu	11/8/2022	20:22	54.1	70
Thu	11/8/2022	20:27	54.2	70
Thu	11/8/2022	20:32	53.5	70
Thu	11/8/2022	20:37	52.8	70
Thu	11/8/2022	20:42	53.1	70
Thu	11/8/2022	20:47	54.9	70
Thu	11/8/2022	20:52	53.6	70
Thu	11/8/2022	20:57	53.9	70
Thu	11/8/2022	21:02	53.7	70
Thu	11/8/2022	21:07	53.5	70
Thu	11/8/2022	21:12	54.3	70
Thu	11/8/2022	21:17	53.3	70
Thu	11/8/2022	21:22	53.6	70
Thu	11/8/2022	21:27	53.6	70
Thu	11/8/2022	21:32	54.6	70
Thu	11/8/2022	21:37	52.3	70
Thu	11/8/2022	21:42	52.9	70
Thu	11/8/2022	21:47	53	70
Thu	11/8/2022	21:52	52.1	70

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Thu	11/8/2022	16:34	70.8	90
Thu	11/8/2022	16:39	69.9	90
Thu	11/8/2022	16:44	70.7	90
Thu	11/8/2022	16:49	70.6	90
Thu	11/8/2022	16:54	70.6	90
Thu	11/8/2022	16:59	69.6	90
Thu	11/8/2022	17:04	71	90
Thu	11/8/2022	17:09	70.3	90
Thu	11/8/2022	17:14	69.7	90
Thu	11/8/2022	17:19	70.7	90
Thu	11/8/2022	17:24	70	90
Thu	11/8/2022	17:29	69.2	90
Thu	11/8/2022	17:34	68.9	90
Thu	11/8/2022	17:39	68.3	90
Thu	11/8/2022	17:44	69.7	90
Thu	11/8/2022	17:49	67.4	90
Thu	11/8/2022	17:54	69.1	90
Thu	11/8/2022	17:59	68.4	90
Thu	11/8/2022	18:04	68.5	90
Thu	11/8/2022	18:09	71.4	90
Thu	11/8/2022	18:14	71.9	90
Thu	11/8/2022	18:19	71.3	90
Thu	11/8/2022	18:24	70.8	90
Thu	11/8/2022	18:29	67	90
Thu	11/8/2022	18:34	67.9	90
Thu	11/8/2022	18:39	67.2	90
Thu	11/8/2022	18:44	67.5	90
Thu	11/8/2022	18:49	66.5	90
Thu	11/8/2022	18:54	68.6	90
Thu	11/8/2022	18:59	67.8	90
Thu	11/8/2022	19:04	68.4	70
Thu	11/8/2022	19:09	67.7	70
Thu	11/8/2022	19:14	68.2	70
Thu	11/8/2022	19:19	67.8	70
Thu	11/8/2022	19:24	67.9	70
Thu	11/8/2022	19:29	68.9	70
Thu	11/8/2022	19:34	68	70
Thu	11/8/2022	19:39	68.4	70
Thu	11/8/2022	19:44	66.9	70
Thu	11/8/2022	19:49	69.5	70
Thu	11/8/2022	19:54	66.7	70
Thu	11/8/2022	19:59	66.4	70
Thu	11/8/2022	20:04	69.2	70
Thu	11/8/2022	20:09	66.5	70

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Thu	11/8/2022	21:57	55	70
Thu	11/8/2022	22:02	54.4	55
Thu	11/8/2022	22:07	53	55
Thu	11/8/2022	22:12	53.5	55
Thu	11/8/2022	22:17	53.5	55
Thu	11/8/2022	22:22	53.6	55
Thu	11/8/2022	22:27	53.9	55
Thu	11/8/2022	22:32	53.5	55
Thu	11/8/2022	22:37	55.2	55
Thu	11/8/2022	22:42	54.3	55
Thu	11/8/2022	22:47	54.8	55
Thu	11/8/2022	22:52	53.8	55
Thu	11/8/2022	22:57	53.9	55
Thu	11/8/2022	23:02	53.3	55
Thu	11/8/2022	23:07	54.3	55
Thu	11/8/2022	23:12	55.1	55
Thu	11/8/2022	23:17	53.9	55
Thu	11/8/2022	23:22	53.8	55
Thu	11/8/2022	23:27	53.9	55
Thu	11/8/2022	23:32	53.7	55
Thu	11/8/2022	23:37	54.7	55
Thu	11/8/2022	23:42	55.9	55
Thu	11/8/2022	23:47	53.7	55
Thu	11/8/2022	23:52	54	55
Thu	11/8/2022	23:57	54.3	55
Fri	12/8/2022	00:02	53.9	55
Fri	12/8/2022	00:07	53.6	55
Fri	12/8/2022	00:12	53.4	55
Fri	12/8/2022	00:17	52.8	55
Fri	12/8/2022	00:22	53.3	55
Fri	12/8/2022	00:27	53.8	55
Fri	12/8/2022	00:32	52.9	55
Fri	12/8/2022	00:37	52.7	55
Fri	12/8/2022	00:42	53.4	55
Fri	12/8/2022	00:47	54.9	55
Fri	12/8/2022	00:52	52.8	55
Fri	12/8/2022	00:57	53.6	55
Fri	12/8/2022	01:02	57.6	55
Fri	12/8/2022	01:07	54.6	55
Fri	12/8/2022	01:12	53.8	55
Fri	12/8/2022	01:17	53.4	55
Fri	12/8/2022	01:22	55.5	55
Fri	12/8/2022	01:27	55.4	55
Fri	12/8/2022	01:32	55.7	55

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Thu	11/8/2022	20:14	65.5	70
Thu	11/8/2022	20:19	67.7	70
Thu	11/8/2022	20:24	67.6	70
Thu	11/8/2022	20:29	67.1	70
Thu	11/8/2022	20:34	64.5	70
Thu	11/8/2022	20:39	67.5	70
Thu	11/8/2022	20:44	66	70
Thu	11/8/2022	20:49	67.4	70
Thu	11/8/2022	20:54	68.1	70
Thu	11/8/2022	20:59	64.6	70
Thu	11/8/2022	21:04	66.9	70
Thu	11/8/2022	21:09	65.7	70
Thu	11/8/2022	21:14	66.5	70
Thu	11/8/2022	21:19	66.8	70
Thu	11/8/2022	21:24	65.2	70
Thu	11/8/2022	21:29	67.2	70
Thu	11/8/2022	21:34	65.3	70
Thu	11/8/2022	21:39	65.7	70
Thu	11/8/2022	21:44	65.3	70
Thu	11/8/2022	21:49	64.5	70
Thu	11/8/2022	21:54	64.5	70
Thu	11/8/2022	21:59	64.1	70
Thu	11/8/2022	22:04	65.3	70
Thu	11/8/2022	22:09	65.8	70
Thu	11/8/2022	22:14	64.1	70
Thu	11/8/2022	22:19	63.4	70
Thu	11/8/2022	22:24	64.6	70
Thu	11/8/2022	22:29	65.1	70
Thu	11/8/2022	22:34	61.9	70
Thu	11/8/2022	22:39	61.2	70
Thu	11/8/2022	22:44	65.4	70
Thu	11/8/2022	22:49	62.5	70
Thu	11/8/2022	22:54	61.5	70
Thu	11/8/2022	22:59	63.1	70
Thu	11/8/2022	23:04	57.1	70
Thu	11/8/2022	23:09	63.5	70
Thu	11/8/2022	23:14	61.3	70
Thu	11/8/2022	23:19	67.9	70
Thu	11/8/2022	23:24	62	70
Thu	11/8/2022	23:29	63.3	70
Thu	11/8/2022	23:34	60.6	70
Thu	11/8/2022	23:39	62	70
Thu	11/8/2022	23:44	62.1	70
Thu	11/8/2022	23:49	59.9	70

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Fri	12/8/2022	01:37	55.3	55
Fri	12/8/2022	01:42	55.5	55
Fri	12/8/2022	01:47	54.9	55
Fri	12/8/2022	01:52	55.9	55
Fri	12/8/2022	01:57	55.7	55
Fri	12/8/2022	02:02	56.9	55
Fri	12/8/2022	02:07	56.1	55
Fri	12/8/2022	02:12	56.5	55
Fri	12/8/2022	02:17	56	55
Fri	12/8/2022	02:22	56.3	55
Fri	12/8/2022	02:27	56.6	55
Fri	12/8/2022	02:32	55.9	55
Fri	12/8/2022	02:37	54.2	55
Fri	12/8/2022	02:42	54.5	55
Fri	12/8/2022	02:47	53.3	55
Fri	12/8/2022	02:52	53.7	55
Fri	12/8/2022	02:57	53	55
Fri	12/8/2022	03:02	52.9	55
Fri	12/8/2022	03:07	52.6	55
Fri	12/8/2022	03:12	51.8	55
Fri	12/8/2022	03:17	51.8	55
Fri	12/8/2022	03:22	52.7	55
Fri	12/8/2022	03:27	51.1	55
Fri	12/8/2022	03:32	51.6	55
Fri	12/8/2022	03:37	53.1	55
Fri	12/8/2022	03:42	51.4	55
Fri	12/8/2022	03:47	52.8	55
Fri	12/8/2022	03:52	51.9	55
Fri	12/8/2022	03:57	53.7	55
Fri	12/8/2022	04:02	54.6	55
Fri	12/8/2022	04:07	51.8	55
Fri	12/8/2022	04:12	51.6	55
Fri	12/8/2022	04:17	52.6	55
Fri	12/8/2022	04:22	52.5	55
Fri	12/8/2022	04:27	50.9	55
Fri	12/8/2022	04:32	49.9	55
Fri	12/8/2022	04:37	51.6	55
Fri	12/8/2022	04:42	51	55
Fri	12/8/2022	04:47	50.3	55
Fri	12/8/2022	04:52	49.4	55
Fri	12/8/2022	04:57	56.8	55
Fri	12/8/2022	05:02	50.8	55
Fri	12/8/2022	05:07	51.7	55
Fri	12/8/2022	05:12	51.5	55

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Thu	11/8/2022	23:54	61.4	70
Thu	11/8/2022	23:59	60	70
Fri	12/8/2022	00:04	62.2	70
Fri	12/8/2022	00:09	63	70
Fri	12/8/2022	00:14	61.6	70
Fri	12/8/2022	00:19	62.6	70
Fri	12/8/2022	00:24	60.7	70
Fri	12/8/2022	00:29	64.2	70
Fri	12/8/2022	00:34	64.4	70
Fri	12/8/2022	00:39	61.1	70
Fri	12/8/2022	00:44	64.4	70
Fri	12/8/2022	00:49	60.1	70
Fri	12/8/2022	00:54	60.6	70
Fri	12/8/2022	00:59	60.7	70
Fri	12/8/2022	01:04	60.6	70
Fri	12/8/2022	01:09	62.8	70
Fri	12/8/2022	01:14	63	70
Fri	12/8/2022	01:19	63.5	70
Fri	12/8/2022	01:24	60.9	70
Fri	12/8/2022	01:29	63.7	70
Fri	12/8/2022	01:34	57.7	70
Fri	12/8/2022	01:39	63.5	70
Fri	12/8/2022	01:44	60.2	70
Fri	12/8/2022	01:49	58.8	70
Fri	12/8/2022	01:54	60.5	70
Fri	12/8/2022	01:59	59.4	70
Fri	12/8/2022	02:04	61.4	70
Fri	12/8/2022	02:09	59.2	70
Fri	12/8/2022	02:14	58.1	70
Fri	12/8/2022	02:19	57.4	70
Fri	12/8/2022	02:24	62.7	70
Fri	12/8/2022	02:29	63.7	70
Fri	12/8/2022	02:34	61.6	70
Fri	12/8/2022	02:39	60.3	70
Fri	12/8/2022	02:44	58.9	70
Fri	12/8/2022	02:49	60.8	70
Fri	12/8/2022	02:54	60.1	70
Fri	12/8/2022	02:59	62.7	70
Fri	12/8/2022	03:04	60.9	70
Fri	12/8/2022	03:09	59.6	70
Fri	12/8/2022	03:14	61	70
Fri	12/8/2022	03:19	56	70
Fri	12/8/2022	03:24	60.1	70
Fri	12/8/2022	03:29	60.9	70

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Fri	12/8/2022	05:17	51.4	55
Fri	12/8/2022	05:22	50.7	55
Fri	12/8/2022	05:27	50.9	55
Fri	12/8/2022	05:32	52	55
Fri	12/8/2022	05:37	51.7	55
Fri	12/8/2022	05:42	51.2	55
Fri	12/8/2022	05:47	52	55
Fri	12/8/2022	05:52	53	55
Fri	12/8/2022	05:57	50.9	55
Fri	12/8/2022	06:02	50.3	55
Fri	12/8/2022	06:07	50.8	55
Fri	12/8/2022	06:12	50.2	55
Fri	12/8/2022	06:17	50.4	55
Fri	12/8/2022	06:22	50.9	55
Fri	12/8/2022	06:27	50.8	55
Fri	12/8/2022	06:32	51.2	55
Fri	12/8/2022	06:37	50.7	55
Fri	12/8/2022	06:42	50.6	55
Fri	12/8/2022	06:47	50	55
Fri	12/8/2022	06:52	49.9	55
Fri	12/8/2022	06:57	52.1	55
Fri	12/8/2022	07:02	55.1	90
Fri	12/8/2022	07:07	50.2	90
Fri	12/8/2022	07:12	50.4	90
Fri	12/8/2022	07:17	51.2	90
Fri	12/8/2022	07:22	53.6	90
Fri	12/8/2022	07:27	51.5	90
Fri	12/8/2022	07:32	51.7	90
Fri	12/8/2022	07:37	52.8	90
Fri	12/8/2022	07:42	52.9	90
Fri	12/8/2022	07:47	53.6	90
Fri	12/8/2022	07:52	53.6	90
Fri	12/8/2022	07:57	52.7	90
Fri	12/8/2022	08:02	52.3	90
Fri	12/8/2022	08:07	54.2	90
Fri	12/8/2022	08:12	53.3	90
Fri	12/8/2022	08:17	53.4	90
Fri	12/8/2022	08:22	53.3	90
Fri	12/8/2022	08:27	52.3	90
Fri	12/8/2022	08:32	52.7	90
Fri	12/8/2022	08:37	51.4	90
Fri	12/8/2022	08:42	52.5	90
Fri	12/8/2022	08:47	53.8	90
Fri	12/8/2022	08:52	53.8	90

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Fri	12/8/2022	03:34	61.9	70
Fri	12/8/2022	03:39	61.7	70
Fri	12/8/2022	03:44	63.7	70
Fri	12/8/2022	03:49	64.8	70
Fri	12/8/2022	03:54	64.3	70
Fri	12/8/2022	03:59	65.3	70
Fri	12/8/2022	04:04	64.9	70
Fri	12/8/2022	04:09	66.1	70
Fri	12/8/2022	04:14	63.4	70
Fri	12/8/2022	04:19	68.6	70
Fri	12/8/2022	04:24	66.9	70
Fri	12/8/2022	04:29	67.7	70
Fri	12/8/2022	04:34	72.9	70
Fri	12/8/2022	04:39	74.8	70
Fri	12/8/2022	04:44	70.3	70
Fri	12/8/2022	04:49	72.7	70
Fri	12/8/2022	04:54	72	70
Fri	12/8/2022	04:59	74.5	70
Fri	12/8/2022	05:04	74.7	70
Fri	12/8/2022	05:09	73.2	70
Fri	12/8/2022	05:14	71.2	70
Fri	12/8/2022	05:19	73.3	70
Fri	12/8/2022	05:24	72.8	70
Fri	12/8/2022	05:29	74.6	70
Fri	12/8/2022	05:34	73.5	70
Fri	12/8/2022	05:39	74.2	70
Fri	12/8/2022	05:44	72.6	70
Fri	12/8/2022	05:49	75.6	70
Fri	12/8/2022	05:54	74.9	70
Fri	12/8/2022	05:59	74.4	70
Fri	12/8/2022	06:04	74.6	70
Fri	12/8/2022	06:09	72.8	70
Fri	12/8/2022	06:14	72.4	70
Fri	12/8/2022	06:19	70	70
Fri	12/8/2022	06:24	70.4	70
Fri	12/8/2022	06:29	72.5	70
Fri	12/8/2022	06:34	69	70
Fri	12/8/2022	06:39	70.3	70
Fri	12/8/2022	06:44	70.5	70
Fri	12/8/2022	06:49	72	70
Fri	12/8/2022	06:54	71.1	70
Fri	12/8/2022	06:59	71.7	70
Fri	12/8/2022	07:04	71.4	90
Fri	12/8/2022	07:09	70.1	90

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Fri	12/8/2022	08:57	53.8	90
Fri	12/8/2022	09:02	53	90
Fri	12/8/2022	09:07	52.7	90
Fri	12/8/2022	09:12	52.8	90
Fri	12/8/2022	09:17	53.7	90
Fri	12/8/2022	09:22	53.3	90
Fri	12/8/2022	09:27	54.2	90
Fri	12/8/2022	09:32	55	90
Fri	12/8/2022	09:37	53.8	90
Fri	12/8/2022	09:42	54.1	90
Fri	12/8/2022	09:47	54.8	90
Fri	12/8/2022	09:52	54.6	90
Fri	12/8/2022	09:57	53.5	90
Fri	12/8/2022	10:02	56.3	90
Fri	12/8/2022	10:07	52.8	90
Fri	12/8/2022	10:12	54.7	90
Fri	12/8/2022	10:17	56.4	90
Fri	12/8/2022	10:22	56	90
Fri	12/8/2022	10:27	56.3	90
Fri	12/8/2022	10:32	57.7	90
Fri	12/8/2022	10:37	55.3	90
Fri	12/8/2022	10:42	55.8	90
Fri	12/8/2022	10:47	54.8	90
Fri	12/8/2022	10:52	55.4	90
Fri	12/8/2022	10:57	56.7	90
Fri	12/8/2022	11:02	55.6	90
Fri	12/8/2022	11:07	57.6	90
Fri	12/8/2022	11:12	54.9	90
Fri	12/8/2022	11:17	52.6	90
Fri	12/8/2022	11:22	53.8	90
Fri	12/8/2022	11:27	52.3	90
Fri	12/8/2022	11:32	52.1	90
Fri	12/8/2022	11:37	62.7	90
Fri	12/8/2022	11:42	59.4	90
Fri	12/8/2022	11:47	53.3	90
Fri	12/8/2022	11:52	55.6	90
Fri	12/8/2022	11:57	54.8	90
Fri	12/8/2022	12:02	56.9	90
Fri	12/8/2022	12:07	58.7	90
Fri	12/8/2022	12:12	59.5	90
Fri	12/8/2022	12:17	56.8	90
Fri	12/8/2022	12:22	55.4	90
Fri	12/8/2022	12:27	58	90
Fri	12/8/2022	12:32	66.3	90

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Fri	12/8/2022	07:14	70.2	90
Fri	12/8/2022	07:19	69.2	90
Fri	12/8/2022	07:24	71.9	90
Fri	12/8/2022	07:29	74.2	90
Fri	12/8/2022	07:34	76.5	90
Fri	12/8/2022	07:39	75.5	90
Fri	12/8/2022	07:44	75	90
Fri	12/8/2022	07:49	73.6	90
Fri	12/8/2022	07:54	73.5	90
Fri	12/8/2022	07:59	74	90
Fri	12/8/2022	08:04	71.9	90
Fri	12/8/2022	08:09	71.6	90
Fri	12/8/2022	08:14	73.3	90
Fri	12/8/2022	08:19	74.9	90
Fri	12/8/2022	08:24	71.8	90
Fri	12/8/2022	08:29	72.8	90
Fri	12/8/2022	08:34	72.4	90
Fri	12/8/2022	08:39	72.7	90
Fri	12/8/2022	08:44	72.3	90
Fri	12/8/2022	08:49	72.9	90
Fri	12/8/2022	08:54	73.3	90
Fri	12/8/2022	08:59	72	90
Fri	12/8/2022	09:04	71.1	90
Fri	12/8/2022	09:09	71.8	90
Fri	12/8/2022	09:14	71.5	90
Fri	12/8/2022	09:19	70.8	90
Fri	12/8/2022	09:24	71.2	90
Fri	12/8/2022	09:29	71.3	90
Fri	12/8/2022	09:34	71.3	90
Fri	12/8/2022	09:39	70.6	90
Fri	12/8/2022	09:44	70.6	90
Fri	12/8/2022	09:49	69.7	90
Fri	12/8/2022	09:54	70.2	90
Fri	12/8/2022	09:59	70.2	90
Fri	12/8/2022	10:04	69.3	90
Fri	12/8/2022	10:09	69.9	90
Fri	12/8/2022	10:14	70.6	90
Fri	12/8/2022	10:19	69.2	90
Fri	12/8/2022	10:24	71.3	90
Fri	12/8/2022	10:29	68.7	90
Fri	12/8/2022	10:34	68.6	90
Fri	12/8/2022	10:39	70	90
Fri	12/8/2022	10:44	68.2	90
Fri	12/8/2022	10:49	69.8	90

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Fri	12/8/2022	12:37	65.6	90
Fri	12/8/2022	12:42	62.5	90
Fri	12/8/2022	12:47	58.3	90
Fri	12/8/2022	12:52	56.4	90
Fri	12/8/2022	12:57	56.9	90
Fri	12/8/2022	13:02	56.5	90
Fri	12/8/2022	13:07	56.9	90
Fri	12/8/2022	13:12	57.7	90
Fri	12/8/2022	13:17	57.7	90
Fri	12/8/2022	13:22	56	90
Fri	12/8/2022	13:27	55.5	90
Fri	12/8/2022	13:32	56.4	90
Fri	12/8/2022	13:37	55.1	90
Fri	12/8/2022	13:42	54.3	90
Fri	12/8/2022	13:47	54.7	90
Fri	12/8/2022	13:52	56	90
Fri	12/8/2022	13:57	55.6	90
Fri	12/8/2022	14:02	54.1	90
Fri	12/8/2022	14:07	58.4	90
Fri	12/8/2022	14:12	55.4	90
Fri	12/8/2022	14:17	55.9	90
Fri	12/8/2022	14:22	57.2	90
Fri	12/8/2022	14:27	55.6	90
Fri	12/8/2022	14:32	62.5	90
Fri	12/8/2022	14:37	56.1	90
Fri	12/8/2022	14:42	56.8	90
Fri	12/8/2022	14:47	56	90
Fri	12/8/2022	14:52	56.6	90
Fri	12/8/2022	14:57	55.4	90
Fri	12/8/2022	15:02	58.3	90
Fri	12/8/2022	15:07	57.2	90
Fri	12/8/2022	15:12	55.6	90
Fri	12/8/2022	15:17	56.3	90
Fri	12/8/2022	15:22	56.4	90
Fri	12/8/2022	15:27	54.7	90
Fri	12/8/2022	15:32	55.3	90
Fri	12/8/2022	15:37	54.8	90
Fri	12/8/2022	15:42	55.5	90
Fri	12/8/2022	15:47	56.4	90
Fri	12/8/2022	15:52	56.8	90
Fri	12/8/2022	15:57	57.5	90
Fri	12/8/2022	16:02	55.9	90
Fri	12/8/2022	16:07	54.1	90
Fri	12/8/2022	16:12	54.6	90

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Fri	12/8/2022	10:54	69.4	90
Fri	12/8/2022	10:59	68.1	90
Fri	12/8/2022	11:04	69.3	90
Fri	12/8/2022	11:09	69.4	90
Fri	12/8/2022	11:14	69.3	90
Fri	12/8/2022	11:19	68.7	90
Fri	12/8/2022	11:24	69.6	90
Fri	12/8/2022	11:29	68.5	90
Fri	12/8/2022	11:34	70.2	90
Fri	12/8/2022	11:39	67.9	90
Fri	12/8/2022	11:44	68.1	90
Fri	12/8/2022	11:49	69.6	90
Fri	12/8/2022	11:54	71.6	90
Fri	12/8/2022	11:59	68.3	90
Fri	12/8/2022	12:04	69.8	90
Fri	12/8/2022	12:09	68.2	90
Fri	12/8/2022	12:14	69	90
Fri	12/8/2022	12:19	70	90
Fri	12/8/2022	12:24	69.8	90
Fri	12/8/2022	12:29	69.2	90
Fri	12/8/2022	12:34	68.5	90
Fri	12/8/2022	12:39	69.5	90
Fri	12/8/2022	12:44	67.4	90
Fri	12/8/2022	12:49	68.1	90
Fri	12/8/2022	12:54	68.9	90
Fri	12/8/2022	12:59	68.3	90
Fri	12/8/2022	13:04	69.4	90
Fri	12/8/2022	13:09	67.7	90
Fri	12/8/2022	13:14	68	90
Fri	12/8/2022	13:19	69.1	90
Fri	12/8/2022	13:24	68.8	90
Fri	12/8/2022	13:29	69	90
Fri	12/8/2022	13:34	67.9	90
Fri	12/8/2022	13:39	68.4	90
Fri	12/8/2022	13:44	68.8	90
Fri	12/8/2022	13:49	67.7	90
Fri	12/8/2022	13:54	70.2	90
Fri	12/8/2022	13:59	68.2	90
Fri	12/8/2022	14:04	70.7	90
Fri	12/8/2022	14:09	68	90
Fri	12/8/2022	14:14	73.2	90
Fri	12/8/2022	14:19	68.5	90
Fri	12/8/2022	14:24	67.8	90
Fri	12/8/2022	14:29	68.3	90

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Fri	12/8/2022	16:17	55.1	90
Fri	12/8/2022	16:22	57.1	90
Fri	12/8/2022	16:27	55.5	90
Fri	12/8/2022	16:32	54.8	90
Fri	12/8/2022	16:37	56	90
Fri	12/8/2022	16:42	54.8	90
Fri	12/8/2022	16:47	54.9	90
Fri	12/8/2022	16:52	55.2	90
Fri	12/8/2022	16:57	54.1	90
Fri	12/8/2022	17:02	55.7	90
Fri	12/8/2022	17:07	56.1	90
Fri	12/8/2022	17:12	55.2	90
Fri	12/8/2022	17:17	56.2	90
Fri	12/8/2022	17:22	54.8	90
Fri	12/8/2022	17:27	54.1	90
Fri	12/8/2022	17:32	55	90
Fri	12/8/2022	17:37	56.3	90
Fri	12/8/2022	17:42	53.5	90
Fri	12/8/2022	17:47	53.2	90
Fri	12/8/2022	17:52	51.8	90
Fri	12/8/2022	17:57	52.5	90
Fri	12/8/2022	18:02	53.7	90
Fri	12/8/2022	18:07	53.7	90
Fri	12/8/2022	18:12	53.3	90
Fri	12/8/2022	18:17	53.8	90
Fri	12/8/2022	18:22	54.2	90
Fri	12/8/2022	18:27	55.9	90
Fri	12/8/2022	18:32	54.3	90
Fri	12/8/2022	18:37	57.5	90
Fri	12/8/2022	18:42	55.3	90
Fri	12/8/2022	18:47	53.9	90
Fri	12/8/2022	18:52	55.7	90
Fri	12/8/2022	18:57	57.6	90
Fri	12/8/2022	19:02	56.9	70
Fri	12/8/2022	19:07	52.8	70
Fri	12/8/2022	19:12	54.5	70
Fri	12/8/2022	19:17	55.1	70
Fri	12/8/2022	19:22	54	70
Fri	12/8/2022	19:27	55.1	70
Fri	12/8/2022	19:32	54.9	70
Fri	12/8/2022	19:37	54.6	70
Fri	12/8/2022	19:42	54.6	70
Fri	12/8/2022	19:47	52.7	70
Fri	12/8/2022	19:52	55.1	70

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Fri	12/8/2022	14:34	68.5	90
Fri	12/8/2022	14:39	67.7	90
Fri	12/8/2022	14:44	68.1	90
Fri	12/8/2022	14:49	69.7	90
Fri	12/8/2022	14:54	69.7	90
Fri	12/8/2022	14:59	68.7	90
Fri	12/8/2022	15:04	68.5	90
Fri	12/8/2022	15:09	66.1	90
Fri	12/8/2022	15:14	68.4	90
Fri	12/8/2022	15:19	69.9	90
Fri	12/8/2022	15:24	70.3	90
Fri	12/8/2022	15:29	67.9	90
Fri	12/8/2022	15:34	67.4	90
Fri	12/8/2022	15:39	70.2	90
Fri	12/8/2022	15:44	68.2	90
Fri	12/8/2022	15:49	69.9	90
Fri	12/8/2022	15:54	69.3	90
Fri	12/8/2022	15:59	69.3	90
Fri	12/8/2022	16:04	72.9	90
Fri	12/8/2022	16:09	68.3	90
Fri	12/8/2022	16:14	69	90
Fri	12/8/2022	16:19	69.1	90
Fri	12/8/2022	16:24	69.1	90
Fri	12/8/2022	16:29	68.4	90
Fri	12/8/2022	16:34	68.1	90
Fri	12/8/2022	16:39	69.3	90
Fri	12/8/2022	16:44	69.5	90
Fri	12/8/2022	16:49	69	90
Fri	12/8/2022	16:54	67.8	90
Fri	12/8/2022	16:59	69.5	90
Fri	12/8/2022	17:04	67.8	90
Fri	12/8/2022	17:09	67.3	90
Fri	12/8/2022	17:14	67.6	90
Fri	12/8/2022	17:19	69	90
Fri	12/8/2022	17:24	67.9	90
Fri	12/8/2022	17:29	67.5	90
Fri	12/8/2022	17:34	67.4	90
Fri	12/8/2022	17:39	66.7	90
Fri	12/8/2022	17:44	67.8	90
Fri	12/8/2022	17:49	68.6	90
Fri	12/8/2022	17:54	67.6	90
Fri	12/8/2022	17:59	67.9	90
Fri	12/8/2022	18:04	67.8	90
Fri	12/8/2022	18:09	67.7	90

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Fri	12/8/2022	19:57	54	70
Fri	12/8/2022	20:02	52.9	70
Fri	12/8/2022	20:07	53.7	70
Fri	12/8/2022	20:12	53.6	70
Fri	12/8/2022	20:17	53.4	70
Fri	12/8/2022	20:22	53.7	70
Fri	12/8/2022	20:27	54.2	70
Fri	12/8/2022	20:32	54	70
Fri	12/8/2022	20:37	53.8	70
Fri	12/8/2022	20:42	54.5	70
Fri	12/8/2022	20:47	54.4	70
Fri	12/8/2022	20:52	55	70
Fri	12/8/2022	20:57	55.4	70
Fri	12/8/2022	21:02	55.2	70
Fri	12/8/2022	21:07	55.4	70
Fri	12/8/2022	21:12	56.3	70
Fri	12/8/2022	21:17	56.1	70
Fri	12/8/2022	21:22	55.1	70
Fri	12/8/2022	21:27	55.1	70
Fri	12/8/2022	21:32	56	70
Fri	12/8/2022	21:37	55.2	70
Fri	12/8/2022	21:42	53.2	70
Fri	12/8/2022	21:47	54.6	70
Fri	12/8/2022	21:52	53.6	70
Fri	12/8/2022	21:57	53.7	70
Fri	12/8/2022	22:02	54.3	55
Fri	12/8/2022	22:07	54.7	55
Fri	12/8/2022	22:12	55.6	55
Fri	12/8/2022	22:17	53.8	55
Fri	12/8/2022	22:22	54.1	55
Fri	12/8/2022	22:27	54.6	55
Fri	12/8/2022	22:32	54.3	55
Fri	12/8/2022	22:37	54.3	55
Fri	12/8/2022	22:42	54.2	55
Fri	12/8/2022	22:47	54.8	55
Fri	12/8/2022	22:52	54.7	55
Fri	12/8/2022	22:57	54.7	55
Fri	12/8/2022	23:02	53.5	55
Fri	12/8/2022	23:07	54.6	55
Fri	12/8/2022	23:12	57.1	55
Fri	12/8/2022	23:17	54	55
Fri	12/8/2022	23:22	55.9	55
Fri	12/8/2022	23:27	54.1	55
Fri	12/8/2022	23:32	54.5	55

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Fri	12/8/2022	18:14	67.7	90
Fri	12/8/2022	18:19	67.1	90
Fri	12/8/2022	18:24	68.3	90
Fri	12/8/2022	18:29	67.3	90
Fri	12/8/2022	18:34	69.1	90
Fri	12/8/2022	18:39	65.9	90
Fri	12/8/2022	18:44	68.9	90
Fri	12/8/2022	18:49	66.5	90
Fri	12/8/2022	18:54	66.6	90
Fri	12/8/2022	18:59	66.7	90
Fri	12/8/2022	19:04	66.4	70
Fri	12/8/2022	19:09	68	70
Fri	12/8/2022	19:14	66.4	70
Fri	12/8/2022	19:19	67.8	70
Fri	12/8/2022	19:24	68	70
Fri	12/8/2022	19:29	68.1	70
Fri	12/8/2022	19:34	68.1	70
Fri	12/8/2022	19:39	65.3	70
Fri	12/8/2022	19:44	67.7	70
Fri	12/8/2022	19:49	67.8	70
Fri	12/8/2022	19:54	69.1	70
Fri	12/8/2022	19:59	66.4	70
Fri	12/8/2022	20:04	66.6	70
Fri	12/8/2022	20:09	67	70
Fri	12/8/2022	20:14	67.7	70
Fri	12/8/2022	20:19	66.5	70
Fri	12/8/2022	20:24	68.1	70
Fri	12/8/2022	20:29	66.7	70
Fri	12/8/2022	20:34	70.2	70
Fri	12/8/2022	20:39	67.2	70
Fri	12/8/2022	20:44	66.8	70
Fri	12/8/2022	20:49	66.2	70
Fri	12/8/2022	20:54	66.3	70
Fri	12/8/2022	20:59	65.7	70
Fri	12/8/2022	21:04	66.1	70
Fri	12/8/2022	21:09	65.4	70
Fri	12/8/2022	21:14	66.1	70
Fri	12/8/2022	21:19	66.1	70
Fri	12/8/2022	21:24	65.8	70
Fri	12/8/2022	21:29	66.1	70
Fri	12/8/2022	21:34	64.8	70
Fri	12/8/2022	21:39	65.8	70
Fri	12/8/2022	21:44	67.5	70
Fri	12/8/2022	21:49	65.1	70

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Fri	12/8/2022	23:37	54.2	55
Fri	12/8/2022	23:42	54.7	55
Fri	12/8/2022	23:47	55.3	55
Fri	12/8/2022	23:52	54.1	55
Fri	12/8/2022	23:57	54.6	55
Sat	13/8/2022	00:02	54.8	55
Sat	13/8/2022	00:07	53.4	55
Sat	13/8/2022	00:12	54.1	55
Sat	13/8/2022	00:17	54.8	55
Sat	13/8/2022	00:22	54.1	55
Sat	13/8/2022	00:27	53.2	55
Sat	13/8/2022	00:32	52.8	55
Sat	13/8/2022	00:37	53	55
Sat	13/8/2022	00:42	53.1	55
Sat	13/8/2022	00:47	52.8	55
Sat	13/8/2022	00:52	53.7	55
Sat	13/8/2022	00:57	55.2	55
Sat	13/8/2022	01:02	54.9	55
Sat	13/8/2022	01:07	52.6	55
Sat	13/8/2022	01:12	53.1	55
Sat	13/8/2022	01:17	52.9	55
Sat	13/8/2022	01:22	54	55
Sat	13/8/2022	01:27	53	55
Sat	13/8/2022	01:32	52.8	55
Sat	13/8/2022	01:37	52.9	55
Sat	13/8/2022	01:42	53	55
Sat	13/8/2022	01:47	52.2	55
Sat	13/8/2022	01:52	52.2	55
Sat	13/8/2022	01:57	54.6	55
Sat	13/8/2022	02:02	53.1	55
Sat	13/8/2022	02:07	53.5	55
Sat	13/8/2022	02:12	53.5	55
Sat	13/8/2022	02:17	52.5	55
Sat	13/8/2022	02:22	51.4	55
Sat	13/8/2022	02:27	51.4	55
Sat	13/8/2022	02:32	56.4	55
Sat	13/8/2022	02:37	52.8	55
Sat	13/8/2022	02:42	51.9	55
Sat	13/8/2022	02:47	52.3	55
Sat	13/8/2022	02:52	51.9	55
Sat	13/8/2022	02:57	52.3	55
Sat	13/8/2022	03:02	53	55
Sat	13/8/2022	03:07	51.7	55
Sat	13/8/2022	03:12	52.5	55

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Fri	12/8/2022	21:54	65.8	70
Fri	12/8/2022	21:59	61.5	70
Fri	12/8/2022	22:04	65.8	70
Fri	12/8/2022	22:09	64.6	70
Fri	12/8/2022	22:14	61.2	70
Fri	12/8/2022	22:19	63.8	70
Fri	12/8/2022	22:24	64.1	70
Fri	12/8/2022	22:29	64.4	70
Fri	12/8/2022	22:34	63.8	70
Fri	12/8/2022	22:39	64.7	70
Fri	12/8/2022	22:44	65	70
Fri	12/8/2022	22:49	63.1	70
Fri	12/8/2022	22:54	62.5	70
Fri	12/8/2022	22:59	61.7	70
Fri	12/8/2022	23:04	65.5	70
Fri	12/8/2022	23:09	61.8	70
Fri	12/8/2022	23:14	64	70
Fri	12/8/2022	23:19	60.8	70
Fri	12/8/2022	23:24	62.6	70
Fri	12/8/2022	23:29	64	70
Fri	12/8/2022	23:34	62	70
Fri	12/8/2022	23:39	66.6	70
Fri	12/8/2022	23:44	62.7	70
Fri	12/8/2022	23:49	63.3	70
Fri	12/8/2022	23:54	58.8	70
Fri	12/8/2022	23:59	60.1	70
Sat	13/8/2022	00:04	60.3	70
Sat	13/8/2022	00:09	60.5	70
Sat	13/8/2022	00:14	61.5	70
Sat	13/8/2022	00:19	62.5	70
Sat	13/8/2022	00:24	61.7	70
Sat	13/8/2022	00:29	61	70
Sat	13/8/2022	00:34	61	70
Sat	13/8/2022	00:39	78	70
Sat	13/8/2022	00:44	60.2	70
Sat	13/8/2022	00:49	62.9	70
Sat	13/8/2022	00:54	61	70
Sat	13/8/2022	00:59	60.3	70
Sat	13/8/2022	01:04	63.7	70
Sat	13/8/2022	01:09	59.6	70
Sat	13/8/2022	01:14	58.6	70
Sat	13/8/2022	01:19	59.5	70
Sat	13/8/2022	01:24	58.6	70
Sat	13/8/2022	01:29	60.4	70

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sat	13/8/2022	03:17	53.2	55
Sat	13/8/2022	03:22	51.6	55
Sat	13/8/2022	03:27	51.4	55
Sat	13/8/2022	03:32	51.6	55
Sat	13/8/2022	03:37	52.6	55
Sat	13/8/2022	03:42	51.2	55
Sat	13/8/2022	03:47	51.3	55
Sat	13/8/2022	03:52	50.9	55
Sat	13/8/2022	03:57	51.7	55
Sat	13/8/2022	04:02	51.4	55
Sat	13/8/2022	04:07	51.2	55
Sat	13/8/2022	04:12	54.5	55
Sat	13/8/2022	04:17	51.9	55
Sat	13/8/2022	04:22	51	55
Sat	13/8/2022	04:27	52.5	55
Sat	13/8/2022	04:32	51.5	55
Sat	13/8/2022	04:37	51.3	55
Sat	13/8/2022	04:42	51.3	55
Sat	13/8/2022	04:47	51.2	55
Sat	13/8/2022	04:52	50.4	55
Sat	13/8/2022	04:57	51.6	55
Sat	13/8/2022	05:02	51.9	55
Sat	13/8/2022	05:07	50.8	55
Sat	13/8/2022	05:12	51.2	55
Sat	13/8/2022	05:17	51.2	55
Sat	13/8/2022	05:22	51.1	55
Sat	13/8/2022	05:27	52.9	55
Sat	13/8/2022	05:32	54	55
Sat	13/8/2022	05:37	51	55
Sat	13/8/2022	05:42	51.9	55
Sat	13/8/2022	05:47	51.6	55
Sat	13/8/2022	05:52	51.1	55
Sat	13/8/2022	05:57	50	55
Sat	13/8/2022	06:02	52	55
Sat	13/8/2022	06:07	50.6	55
Sat	13/8/2022	06:12	50.8	55
Sat	13/8/2022	06:17	52.6	55
Sat	13/8/2022	06:22	51.2	55
Sat	13/8/2022	06:27	51.4	55
Sat	13/8/2022	06:32	50.5	55
Sat	13/8/2022	06:37	50.7	55
Sat	13/8/2022	06:42	49.4	55
Sat	13/8/2022	06:47	49.8	55
Sat	13/8/2022	06:52	51.5	55

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sat	13/8/2022	01:34	61.4	70
Sat	13/8/2022	01:39	59.8	70
Sat	13/8/2022	01:44	65	70
Sat	13/8/2022	01:49	62.4	70
Sat	13/8/2022	01:54	59.5	70
Sat	13/8/2022	01:59	60	70
Sat	13/8/2022	02:04	57	70
Sat	13/8/2022	02:09	60	70
Sat	13/8/2022	02:14	57.5	70
Sat	13/8/2022	02:19	60.8	70
Sat	13/8/2022	02:24	60.3	70
Sat	13/8/2022	02:29	60.7	70
Sat	13/8/2022	02:34	59.5	70
Sat	13/8/2022	02:39	60.8	70
Sat	13/8/2022	02:44	62	70
Sat	13/8/2022	02:49	59.6	70
Sat	13/8/2022	02:54	61.6	70
Sat	13/8/2022	02:59	62.3	70
Sat	13/8/2022	03:04	60.7	70
Sat	13/8/2022	03:09	62.2	70
Sat	13/8/2022	03:14	58.2	70
Sat	13/8/2022	03:19	60.1	70
Sat	13/8/2022	03:24	59.5	70
Sat	13/8/2022	03:29	61.8	70
Sat	13/8/2022	03:34	59.3	70
Sat	13/8/2022	03:39	63.6	70
Sat	13/8/2022	03:44	63.1	70
Sat	13/8/2022	03:49	66.6	70
Sat	13/8/2022	03:54	68.1	70
Sat	13/8/2022	03:59	69.6	70
Sat	13/8/2022	04:04	67.6	70
Sat	13/8/2022	04:09	70.1	70
Sat	13/8/2022	04:14	68.7	70
Sat	13/8/2022	04:19	68.4	70
Sat	13/8/2022	04:24	67.2	70
Sat	13/8/2022	04:29	69.5	70
Sat	13/8/2022	04:34	67.6	70
Sat	13/8/2022	04:39	66.5	70
Sat	13/8/2022	04:44	66.2	70
Sat	13/8/2022	04:49	68.5	70
Sat	13/8/2022	04:54	68.1	70
Sat	13/8/2022	04:59	67.4	70
Sat	13/8/2022	05:04	69.2	70
Sat	13/8/2022	05:09	67.6	70

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sat	13/8/2022	06:57	49.8	55
Sat	13/8/2022	07:02	49.6	90
Sat	13/8/2022	07:07	50.7	90
Sat	13/8/2022	07:12	50.5	90
Sat	13/8/2022	07:17	50.3	90
Sat	13/8/2022	07:22	50.5	90
Sat	13/8/2022	07:27	50.9	90
Sat	13/8/2022	07:32	50.9	90
Sat	13/8/2022	07:37	51.8	90
Sat	13/8/2022	07:42	51.9	90
Sat	13/8/2022	07:47	52.6	90
Sat	13/8/2022	07:52	54.1	90
Sat	13/8/2022	07:57	54.1	90
Sat	13/8/2022	08:02	53.5	90
Sat	13/8/2022	08:07	54.4	90
Sat	13/8/2022	08:12	53.8	90
Sat	13/8/2022	08:17	53.4	90
Sat	13/8/2022	08:22	53.7	90
Sat	13/8/2022	08:27	52.5	90
Sat	13/8/2022	08:32	51.8	90
Sat	13/8/2022	08:37	51.6	90
Sat	13/8/2022	08:42	54.4	90
Sat	13/8/2022	08:47	54.5	90
Sat	13/8/2022	08:52	53.1	90
Sat	13/8/2022	08:57	52.2	90
Sat	13/8/2022	09:02	52.5	90
Sat	13/8/2022	09:07	51.5	90
Sat	13/8/2022	09:12	52.4	90
Sat	13/8/2022	09:17	54	90
Sat	13/8/2022	09:22	54.8	90
Sat	13/8/2022	09:27	52.7	90
Sat	13/8/2022	09:32	54	90
Sat	13/8/2022	09:37	53.6	90
Sat	13/8/2022	09:42	52.9	90
Sat	13/8/2022	09:47	53.4	90
Sat	13/8/2022	09:52	56.3	90
Sat	13/8/2022	09:57	53.4	90
Sat	13/8/2022	10:02	50.6	90
Sat	13/8/2022	10:07	51.2	90
Sat	13/8/2022	10:12	53.5	90
Sat	13/8/2022	10:17	56.2	90
Sat	13/8/2022	10:22	54.7	90
Sat	13/8/2022	10:27	56.4	90
Sat	13/8/2022	10:32	56.8	90

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sat	13/8/2022	05:14	67.5	70
Sat	13/8/2022	05:19	64.2	70
Sat	13/8/2022	05:24	65.9	70
Sat	13/8/2022	05:29	68.7	70
Sat	13/8/2022	05:34	67.5	70
Sat	13/8/2022	05:39	66.4	70
Sat	13/8/2022	05:44	67.7	70
Sat	13/8/2022	05:49	67.6	70
Sat	13/8/2022	05:54	68.2	70
Sat	13/8/2022	05:59	68.5	70
Sat	13/8/2022	06:04	67.9	70
Sat	13/8/2022	06:09	68.1	70
Sat	13/8/2022	06:14	69.4	70
Sat	13/8/2022	06:19	68.5	70
Sat	13/8/2022	06:24	70.4	70
Sat	13/8/2022	06:29	68.6	70
Sat	13/8/2022	06:34	68.6	70
Sat	13/8/2022	06:39	69.8	70
Sat	13/8/2022	06:44	69.4	70
Sat	13/8/2022	06:49	70.1	70
Sat	13/8/2022	06:54	69.8	70
Sat	13/8/2022	06:59	69.6	70
Sat	13/8/2022	07:04	69.6	90
Sat	13/8/2022	07:09	69.2	90
Sat	13/8/2022	07:14	68.9	90
Sat	13/8/2022	07:19	68	90
Sat	13/8/2022	07:24	69.8	90
Sat	13/8/2022	07:29	69.5	90
Sat	13/8/2022	07:34	68.6	90
Sat	13/8/2022	07:39	69.2	90
Sat	13/8/2022	07:44	69.4	90
Sat	13/8/2022	07:49	69.1	90
Sat	13/8/2022	07:54	68.6	90
Sat	13/8/2022	07:59	68.4	90
Sat	13/8/2022	08:04	68.6	90
Sat	13/8/2022	08:09	72.8	90
Sat	13/8/2022	08:14	70	90
Sat	13/8/2022	08:19	68.7	90
Sat	13/8/2022	08:24	69.1	90
Sat	13/8/2022	08:29	72	90
Sat	13/8/2022	08:34	67.9	90
Sat	13/8/2022	08:39	70.5	90
Sat	13/8/2022	08:44	69.5	90
Sat	13/8/2022	08:49	73.6	90

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sat	13/8/2022	10:37	56.8	90
Sat	13/8/2022	10:42	55.2	90
Sat	13/8/2022	10:47	57.5	90
Sat	13/8/2022	10:52	54.8	90
Sat	13/8/2022	10:57	53.5	90
Sat	13/8/2022	11:02	56.3	90
Sat	13/8/2022	11:07	53.6	90
Sat	13/8/2022	11:12	51.9	90
Sat	13/8/2022	11:17	54.8	90
Sat	13/8/2022	11:22	53.6	90
Sat	13/8/2022	11:27	50.8	90
Sat	13/8/2022	11:32	53.7	90
Sat	13/8/2022	11:37	52	90
Sat	13/8/2022	11:42	50.3	90
Sat	13/8/2022	11:47	53.8	90
Sat	13/8/2022	11:52	50.4	90
Sat	13/8/2022	11:57	52.8	90
Sat	13/8/2022	12:02	51.4	90
Sat	13/8/2022	12:07	51.7	90
Sat	13/8/2022	12:12	53.3	90
Sat	13/8/2022	12:17	52.4	90
Sat	13/8/2022	12:22	52.1	90
Sat	13/8/2022	12:27	54.6	90
Sat	13/8/2022	12:32	51.7	90
Sat	13/8/2022	12:37	51.1	90
Sat	13/8/2022	12:42	53.8	90
Sat	13/8/2022	12:47	56.2	90
Sat	13/8/2022	12:52	54.3	90
Sat	13/8/2022	12:57	56.7	90
Sat	13/8/2022	13:02	56.4	90
Sat	13/8/2022	13:07	54.4	90
Sat	13/8/2022	13:12	57	90
Sat	13/8/2022	13:17	54.8	90
Sat	13/8/2022	13:22	53.7	90
Sat	13/8/2022	13:27	51	90
Sat	13/8/2022	13:32	51.9	90
Sat	13/8/2022	13:37	51.1	90
Sat	13/8/2022	13:42	54.6	90
Sat	13/8/2022	13:47	55.5	90
Sat	13/8/2022	13:52	57.5	90
Sat	13/8/2022	13:57	54.8	90
Sat	13/8/2022	14:02	51.3	90
Sat	13/8/2022	14:07	49.8	90
Sat	13/8/2022	14:12	50.4	90

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sat	13/8/2022	08:54	69.9	90
Sat	13/8/2022	08:59	69.6	90
Sat	13/8/2022	09:04	69.7	90
Sat	13/8/2022	09:09	69.4	90
Sat	13/8/2022	09:14	69.1	90
Sat	13/8/2022	09:19	69.9	90
Sat	13/8/2022	09:24	70.7	90
Sat	13/8/2022	09:29	70.4	90
Sat	13/8/2022	09:34	70.1	90
Sat	13/8/2022	09:39	69.4	90
Sat	13/8/2022	09:44	69.5	90
Sat	13/8/2022	09:49	69.3	90
Sat	13/8/2022	09:54	68.4	90
Sat	13/8/2022	09:59	68.8	90
Sat	13/8/2022	10:04	69.3	90
Sat	13/8/2022	10:09	68.6	90
Sat	13/8/2022	10:14	68.4	90
Sat	13/8/2022	10:19	69.4	90
Sat	13/8/2022	10:24	70.4	90
Sat	13/8/2022	10:29	71	90
Sat	13/8/2022	10:34	69.6	90
Sat	13/8/2022	10:39	69.5	90
Sat	13/8/2022	10:44	68.9	90
Sat	13/8/2022	10:49	68.8	90
Sat	13/8/2022	10:54	69.1	90
Sat	13/8/2022	10:59	69.4	90
Sat	13/8/2022	11:04	69.3	90
Sat	13/8/2022	11:09	69.7	90
Sat	13/8/2022	11:14	69.3	90
Sat	13/8/2022	11:19	70.9	90
Sat	13/8/2022	11:24	70	90
Sat	13/8/2022	11:29	71.7	90
Sat	13/8/2022	11:34	70.1	90
Sat	13/8/2022	11:39	82.3	90
Sat	13/8/2022	11:44	85.4	90
Sat	13/8/2022	11:49	70	90
Sat	13/8/2022	11:54	71.1	90
Sat	13/8/2022	11:59	71.7	90
Sat	13/8/2022	12:04	72.6	90
Sat	13/8/2022	12:09	72.8	90
Sat	13/8/2022	12:14	70.2	90
Sat	13/8/2022	12:19	72.6	90
Sat	13/8/2022	12:24	70.8	90
Sat	13/8/2022	12:29	70.5	90

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sat	13/8/2022	14:17	52.2	90
Sat	13/8/2022	14:22	54.8	90
Sat	13/8/2022	14:27	52	90
Sat	13/8/2022	14:32	54.5	90
Sat	13/8/2022	14:37	63.3	90
Sat	13/8/2022	14:42	53.8	90
Sat	13/8/2022	14:47	53	90
Sat	13/8/2022	14:52	55.9	90
Sat	13/8/2022	14:57	64	90
Sat	13/8/2022	15:02	62.8	90
Sat	13/8/2022	15:07	63.6	90
Sat	13/8/2022	15:12	63.4	90
Sat	13/8/2022	15:17	59.6	90
Sat	13/8/2022	15:22	69.6	90
Sat	13/8/2022	15:27	78	90
Sat	13/8/2022	15:32	80.7	90
Sat	13/8/2022	15:37	75.3	90
Sat	13/8/2022	15:42	69.7	90
Sat	13/8/2022	15:47	68.9	90
Sat	13/8/2022	15:52	61.2	90
Sat	13/8/2022	15:57	58.4	90
Sat	13/8/2022	16:02	58.2	90
Sat	13/8/2022	16:07	55.5	90
Sat	13/8/2022	16:12	96.6	90
Sat	13/8/2022	16:17	53.8	90
Sat	13/8/2022	16:22	53.7	90
Sat	13/8/2022	16:27	54.7	90
Sat	13/8/2022	16:32	54.7	90
Sat	13/8/2022	16:37	54.5	90
Sat	13/8/2022	16:42	53.4	90
Sat	13/8/2022	16:47	53.3	90
Sat	13/8/2022	16:52	53.6	90
Sat	13/8/2022	16:57	52.6	90
Sat	13/8/2022	17:02	53.2	90
Sat	13/8/2022	17:07	52.6	90
Sat	13/8/2022	17:12	52.7	90
Sat	13/8/2022	17:17	52.6	90
Sat	13/8/2022	17:22	52.7	90
Sat	13/8/2022	17:27	52.6	90
Sat	13/8/2022	17:32	54.3	90
Sat	13/8/2022	17:37	52	90
Sat	13/8/2022	17:42	51.5	90
Sat	13/8/2022	17:47	52.8	90
Sat	13/8/2022	17:52	51.1	90

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sat	13/8/2022	12:34	69.7	90
Sat	13/8/2022	12:39	73.5	90
Sat	13/8/2022	12:44	69.9	90
Sat	13/8/2022	12:49	68.9	90
Sat	13/8/2022	12:54	69.2	90
Sat	13/8/2022	12:59	69.1	90
Sat	13/8/2022	13:04	67.2	90
Sat	13/8/2022	13:09	68.9	90
Sat	13/8/2022	13:14	70.6	90
Sat	13/8/2022	13:19	68	90
Sat	13/8/2022	13:24	68.2	90
Sat	13/8/2022	13:29	67.5	90
Sat	13/8/2022	13:34	68.1	90
Sat	13/8/2022	13:39	68.4	90
Sat	13/8/2022	13:44	67.9	90
Sat	13/8/2022	13:49	68.1	90
Sat	13/8/2022	13:54	68.6	90
Sat	13/8/2022	13:59	67.9	90
Sat	13/8/2022	14:04	68.6	90
Sat	13/8/2022	14:09	69.1	90
Sat	13/8/2022	14:14	68.9	90
Sat	13/8/2022	14:19	67.7	90
Sat	13/8/2022	14:24	67.9	90
Sat	13/8/2022	14:29	68.8	90
Sat	13/8/2022	14:34	67.8	90
Sat	13/8/2022	14:39	67.9	90
Sat	13/8/2022	14:44	68.7	90
Sat	13/8/2022	14:49	67.2	90
Sat	13/8/2022	14:54	65.9	90
Sat	13/8/2022	14:59	68.9	90
Sat	13/8/2022	15:04	67.3	90
Sat	13/8/2022	15:09	69.6	90
Sat	13/8/2022	15:14	67.2	90
Sat	13/8/2022	15:19	67.2	90
Sat	13/8/2022	15:24	68	90
Sat	13/8/2022	15:29	68.1	90
Sat	13/8/2022	15:34	68	90
Sat	13/8/2022	15:39	67.2	90
Sat	13/8/2022	15:44	68.6	90
Sat	13/8/2022	15:49	67.2	90
Sat	13/8/2022	15:54	67.6	90
Sat	13/8/2022	15:59	68.8	90
Sat	13/8/2022	16:04	67.7	90
Sat	13/8/2022	16:09	67.4	90

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sat	13/8/2022	17:57	50.8	90
Sat	13/8/2022	18:02	53.9	90
Sat	13/8/2022	18:07	52.7	90
Sat	13/8/2022	18:12	52.6	90
Sat	13/8/2022	18:17	52.5	90
Sat	13/8/2022	18:22	56.4	90
Sat	13/8/2022	18:27	54.6	90
Sat	13/8/2022	18:32	54.4	90
Sat	13/8/2022	18:37	53.1	90
Sat	13/8/2022	18:42	55.5	90
Sat	13/8/2022	18:47	54.9	90
Sat	13/8/2022	18:52	54	90
Sat	13/8/2022	18:57	53.9	90
Sat	13/8/2022	19:02	53.3	70
Sat	13/8/2022	19:07	53.6	70
Sat	13/8/2022	19:12	54.2	70
Sat	13/8/2022	19:17	53.5	70
Sat	13/8/2022	19:22	56.3	70
Sat	13/8/2022	19:27	55.3	70
Sat	13/8/2022	19:32	56.3	70
Sat	13/8/2022	19:37	55.5	70
Sat	13/8/2022	19:42	54.4	70
Sat	13/8/2022	19:47	55.9	70
Sat	13/8/2022	19:52	54.8	70
Sat	13/8/2022	19:57	55.2	70
Sat	13/8/2022	20:02	55.8	70
Sat	13/8/2022	20:07	54.3	70
Sat	13/8/2022	20:12	54.1	70
Sat	13/8/2022	20:17	58.4	70
Sat	13/8/2022	20:22	52.7	70
Sat	13/8/2022	20:27	54.1	70
Sat	13/8/2022	20:32	51.5	70
Sat	13/8/2022	20:37	51.5	70
Sat	13/8/2022	20:42	56.4	70
Sat	13/8/2022	20:47	53	70
Sat	13/8/2022	20:52	52.4	70
Sat	13/8/2022	20:57	52	70
Sat	13/8/2022	21:02	53.8	70
Sat	13/8/2022	21:07	51.2	70
Sat	13/8/2022	21:12	54.4	70
Sat	13/8/2022	21:17	52.5	70
Sat	13/8/2022	21:22	53.7	70
Sat	13/8/2022	21:27	54.1	70
Sat	13/8/2022	21:32	52.5	70

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sat	13/8/2022	16:14	68.8	90
Sat	13/8/2022	16:19	67.7	90
Sat	13/8/2022	16:24	68	90
Sat	13/8/2022	16:29	67.5	90
Sat	13/8/2022	16:34	68.4	90
Sat	13/8/2022	16:39	66.9	90
Sat	13/8/2022	16:44	68.5	90
Sat	13/8/2022	16:49	68	90
Sat	13/8/2022	16:54	68.1	90
Sat	13/8/2022	16:59	67.7	90
Sat	13/8/2022	17:04	67.4	90
Sat	13/8/2022	17:09	67.2	90
Sat	13/8/2022	17:14	67.2	90
Sat	13/8/2022	17:19	67.7	90
Sat	13/8/2022	17:24	67.3	90
Sat	13/8/2022	17:29	66.4	90
Sat	13/8/2022	17:34	65.5	90
Sat	13/8/2022	17:39	66.3	90
Sat	13/8/2022	17:44	66.7	90
Sat	13/8/2022	17:49	65.9	90
Sat	13/8/2022	17:54	66	90
Sat	13/8/2022	17:59	67.3	90
Sat	13/8/2022	18:04	66.8	90
Sat	13/8/2022	18:09	66	90
Sat	13/8/2022	18:14	67.4	90
Sat	13/8/2022	18:19	65.9	90
Sat	13/8/2022	18:24	67.6	90
Sat	13/8/2022	18:29	65.6	90
Sat	13/8/2022	18:34	65.5	90
Sat	13/8/2022	18:39	66.1	90
Sat	13/8/2022	18:44	65.6	90
Sat	13/8/2022	18:49	66.9	90
Sat	13/8/2022	18:54	67	90
Sat	13/8/2022	18:59	66	90
Sat	13/8/2022	19:04	68.4	70
Sat	13/8/2022	19:09	65.2	70
Sat	13/8/2022	19:14	66.8	70
Sat	13/8/2022	19:19	65.6	70
Sat	13/8/2022	19:24	65.6	70
Sat	13/8/2022	19:29	65.9	70
Sat	13/8/2022	19:34	67.6	70
Sat	13/8/2022	19:39	66.1	70
Sat	13/8/2022	19:44	67.5	70
Sat	13/8/2022	19:49	66.4	70

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sat	13/8/2022	21:37	53.1	70
Sat	13/8/2022	21:42	52.7	70
Sat	13/8/2022	21:47	52.8	70
Sat	13/8/2022	21:52	51.8	70
Sat	13/8/2022	21:57	53.9	70
Sat	13/8/2022	22:02	53.3	55
Sat	13/8/2022	22:07	52.6	55
Sat	13/8/2022	22:12	52	55
Sat	13/8/2022	22:17	53.5	55
Sat	13/8/2022	22:22	53.2	55
Sat	13/8/2022	22:27	52.3	55
Sat	13/8/2022	22:32	53.4	55
Sat	13/8/2022	22:37	53.8	55
Sat	13/8/2022	22:42	54.9	55
Sat	13/8/2022	22:47	52.1	55
Sat	13/8/2022	22:52	53.2	55
Sat	13/8/2022	22:57	52.8	55
Sat	13/8/2022	23:02	54.7	55
Sat	13/8/2022	23:07	53.6	55
Sat	13/8/2022	23:12	53.4	55
Sat	13/8/2022	23:17	53	55
Sat	13/8/2022	23:22	53	55
Sat	13/8/2022	23:27	53.3	55
Sat	13/8/2022	23:32	53.3	55
Sat	13/8/2022	23:37	53.8	55
Sat	13/8/2022	23:42	54.1	55
Sat	13/8/2022	23:47	53.1	55
Sat	13/8/2022	23:52	51.4	55
Sat	13/8/2022	23:57	52	55
Sun	14/8/2022	00:02	51.6	55
Sun	14/8/2022	00:07	51.6	55
Sun	14/8/2022	00:12	52.2	55
Sun	14/8/2022	00:17	54.6	55
Sun	14/8/2022	00:22	52.8	55
Sun	14/8/2022	00:27	51.2	55
Sun	14/8/2022	00:32	51.9	55
Sun	14/8/2022	00:37	49.6	55
Sun	14/8/2022	00:42	51.9	55
Sun	14/8/2022	00:47	51	55
Sun	14/8/2022	00:52	51.6	55
Sun	14/8/2022	00:57	50.8	55
Sun	14/8/2022	01:02	49.5	55
Sun	14/8/2022	01:07	50	55
Sun	14/8/2022	01:12	50.5	55

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sat	13/8/2022	19:54	66.2	70
Sat	13/8/2022	19:59	65.5	70
Sat	13/8/2022	20:04	66	70
Sat	13/8/2022	20:09	68.2	70
Sat	13/8/2022	20:14	66.7	70
Sat	13/8/2022	20:19	65.2	70
Sat	13/8/2022	20:24	67.9	70
Sat	13/8/2022	20:29	65.1	70
Sat	13/8/2022	20:34	64.8	70
Sat	13/8/2022	20:39	66.6	70
Sat	13/8/2022	20:44	64.2	70
Sat	13/8/2022	20:49	65.9	70
Sat	13/8/2022	20:54	64.6	70
Sat	13/8/2022	20:59	65	70
Sat	13/8/2022	21:04	64.7	70
Sat	13/8/2022	21:09	64.8	70
Sat	13/8/2022	21:14	64.2	70
Sat	13/8/2022	21:19	64.7	70
Sat	13/8/2022	21:24	66	70
Sat	13/8/2022	21:29	65.6	70
Sat	13/8/2022	21:34	64.8	70
Sat	13/8/2022	21:39	64	70
Sat	13/8/2022	21:44	63.4	70
Sat	13/8/2022	21:49	65.3	70
Sat	13/8/2022	21:54	63.9	70
Sat	13/8/2022	21:59	60.9	70
Sat	13/8/2022	22:04	64.1	70
Sat	13/8/2022	22:09	64	70
Sat	13/8/2022	22:14	62.4	70
Sat	13/8/2022	22:19	63.3	70
Sat	13/8/2022	22:24	62.7	70
Sat	13/8/2022	22:29	64.1	70
Sat	13/8/2022	22:34	61.2	70
Sat	13/8/2022	22:39	62.6	70
Sat	13/8/2022	22:44	61.2	70
Sat	13/8/2022	22:49	65.2	70
Sat	13/8/2022	22:54	62.1	70
Sat	13/8/2022	22:59	59.7	70
Sat	13/8/2022	23:04	61.1	70
Sat	13/8/2022	23:09	61.5	70
Sat	13/8/2022	23:14	62.2	70
Sat	13/8/2022	23:19	60.4	70
Sat	13/8/2022	23:24	59.5	70
Sat	13/8/2022	23:29	60	70

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	01:17	49.3	55
Sun	14/8/2022	01:22	50.4	55
Sun	14/8/2022	01:27	49.2	55
Sun	14/8/2022	01:32	49.1	55
Sun	14/8/2022	01:37	48.3	55
Sun	14/8/2022	01:42	47.8	55
Sun	14/8/2022	01:47	49.9	55
Sun	14/8/2022	01:52	47.8	55
Sun	14/8/2022	01:57	48	55
Sun	14/8/2022	02:02	46.5	55
Sun	14/8/2022	02:07	47.8	55
Sun	14/8/2022	02:12	49	55
Sun	14/8/2022	02:17	48.8	55
Sun	14/8/2022	02:22	48.8	55
Sun	14/8/2022	02:27	48.6	55
Sun	14/8/2022	02:32	48.2	55
Sun	14/8/2022	02:37	49.1	55
Sun	14/8/2022	02:42	46.8	55
Sun	14/8/2022	02:47	47.6	55
Sun	14/8/2022	02:52	48.5	55
Sun	14/8/2022	02:57	53.3	55
Sun	14/8/2022	03:02	48.1	55
Sun	14/8/2022	03:07	50.1	55
Sun	14/8/2022	03:12	50.3	55
Sun	14/8/2022	03:17	49.6	55
Sun	14/8/2022	03:22	49.1	55
Sun	14/8/2022	03:27	48.3	55
Sun	14/8/2022	03:32	47.1	55
Sun	14/8/2022	03:37	46.6	55
Sun	14/8/2022	03:42	48.1	55
Sun	14/8/2022	03:47	50.1	55
Sun	14/8/2022	03:52	48.3	55
Sun	14/8/2022	03:57	47.6	55
Sun	14/8/2022	04:02	47.3	55
Sun	14/8/2022	04:07	49.6	55
Sun	14/8/2022	04:12	47.6	55
Sun	14/8/2022	04:17	49.2	55
Sun	14/8/2022	04:22	48.3	55
Sun	14/8/2022	04:27	51.6	55
Sun	14/8/2022	04:32	48.5	55
Sun	14/8/2022	04:37	45.4	55
Sun	14/8/2022	04:42	45.7	55
Sun	14/8/2022	04:47	46.6	55
Sun	14/8/2022	04:52	46.4	55

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sat	13/8/2022	23:34	59.3	70
Sat	13/8/2022	23:39	61.3	70
Sat	13/8/2022	23:44	62.5	70
Sat	13/8/2022	23:49	62.5	70
Sat	13/8/2022	23:54	60.2	70
Sat	13/8/2022	23:59	60.5	70
Sun	14/8/2022	00:04	62.3	70
Sun	14/8/2022	00:09	63.5	70
Sun	14/8/2022	00:14	61.7	70
Sun	14/8/2022	00:19	58.6	70
Sun	14/8/2022	00:24	62.4	70
Sun	14/8/2022	00:29	61.1	70
Sun	14/8/2022	00:34	59.1	70
Sun	14/8/2022	00:39	60.6	70
Sun	14/8/2022	00:44	61.1	70
Sun	14/8/2022	00:49	59.2	70
Sun	14/8/2022	00:54	58	70
Sun	14/8/2022	00:59	65.3	70
Sun	14/8/2022	01:04	59.2	70
Sun	14/8/2022	01:09	61.4	70
Sun	14/8/2022	01:14	60.2	70
Sun	14/8/2022	01:19	51.9	70
Sun	14/8/2022	01:24	61.6	70
Sun	14/8/2022	01:29	58.8	70
Sun	14/8/2022	01:34	58	70
Sun	14/8/2022	01:39	60.4	70
Sun	14/8/2022	01:44	63.5	70
Sun	14/8/2022	01:49	57.7	70
Sun	14/8/2022	01:54	59.7	70
Sun	14/8/2022	01:59	59.1	70
Sun	14/8/2022	02:04	58.4	70
Sun	14/8/2022	02:09	62.2	70
Sun	14/8/2022	02:14	60	70
Sun	14/8/2022	02:19	58.9	70
Sun	14/8/2022	02:24	58.9	70
Sun	14/8/2022	02:29	60	70
Sun	14/8/2022	02:34	60.1	70
Sun	14/8/2022	02:39	58.8	70
Sun	14/8/2022	02:44	57.8	70
Sun	14/8/2022	02:49	59.6	70
Sun	14/8/2022	02:54	58.8	70
Sun	14/8/2022	02:59	60.6	70
Sun	14/8/2022	03:04	61.3	70
Sun	14/8/2022	03:09	58.1	70

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	04:57	48	55
Sun	14/8/2022	05:02	47.3	55
Sun	14/8/2022	05:07	48.9	55
Sun	14/8/2022	05:12	49.1	55
Sun	14/8/2022	05:17	48.8	55
Sun	14/8/2022	05:22	45.5	55
Sun	14/8/2022	05:27	46.6	55
Sun	14/8/2022	05:32	45.2	55
Sun	14/8/2022	05:37	47.2	55
Sun	14/8/2022	05:42	47	55
Sun	14/8/2022	05:47	47.4	55
Sun	14/8/2022	05:52	46.8	55
Sun	14/8/2022	05:57	49.7	55
Sun	14/8/2022	06:02	48.6	55
Sun	14/8/2022	06:07	49.7	55
Sun	14/8/2022	06:12	48.6	55
Sun	14/8/2022	06:17	46.4	55
Sun	14/8/2022	06:22	46.9	55
Sun	14/8/2022	06:27	47.6	55
Sun	14/8/2022	06:32	49.6	55
Sun	14/8/2022	06:37	47.6	55
Sun	14/8/2022	06:42	48.1	55
Sun	14/8/2022	06:47	48.6	55
Sun	14/8/2022	06:52	48.2	55
Sun	14/8/2022	06:57	48.8	55
Sun	14/8/2022	07:02	49.3	75
Sun	14/8/2022	07:07	49.3	75
Sun	14/8/2022	07:12	50.6	75
Sun	14/8/2022	07:17	48.8	75
Sun	14/8/2022	07:22	48.9	75
Sun	14/8/2022	07:27	50.7	75
Sun	14/8/2022	07:32	50.5	75
Sun	14/8/2022	07:37	50.8	75
Sun	14/8/2022	07:42	53.1	75
Sun	14/8/2022	07:47	55.5	75
Sun	14/8/2022	07:52	54.9	75
Sun	14/8/2022	07:57	54.1	75
Sun	14/8/2022	08:02	54.5	75
Sun	14/8/2022	08:07	54.1	75
Sun	14/8/2022	08:12	54.4	75
Sun	14/8/2022	08:17	54.1	75
Sun	14/8/2022	08:22	55.2	75
Sun	14/8/2022	08:27	53.3	75
Sun	14/8/2022	08:32	54.4	75

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	03:14	58.6	70
Sun	14/8/2022	03:19	60.1	70
Sun	14/8/2022	03:24	61.1	70
Sun	14/8/2022	03:29	60.2	70
Sun	14/8/2022	03:34	62	70
Sun	14/8/2022	03:39	61.7	70
Sun	14/8/2022	03:44	62.3	70
Sun	14/8/2022	03:49	63.4	70
Sun	14/8/2022	03:54	63.2	70
Sun	14/8/2022	03:59	61.1	70
Sun	14/8/2022	04:04	63.4	70
Sun	14/8/2022	04:09	62.2	70
Sun	14/8/2022	04:14	63	70
Sun	14/8/2022	04:19	64.4	70
Sun	14/8/2022	04:24	64.6	70
Sun	14/8/2022	04:29	65.6	70
Sun	14/8/2022	04:34	64.4	70
Sun	14/8/2022	04:39	65.4	70
Sun	14/8/2022	04:44	64.5	70
Sun	14/8/2022	04:49	65.8	70
Sun	14/8/2022	04:54	66	70
Sun	14/8/2022	04:59	65.5	70
Sun	14/8/2022	05:04	65.2	70
Sun	14/8/2022	05:09	65.5	70
Sun	14/8/2022	05:14	63.8	70
Sun	14/8/2022	05:19	65.2	70
Sun	14/8/2022	05:24	64.8	70
Sun	14/8/2022	05:29	65.6	70
Sun	14/8/2022	05:34	65.2	70
Sun	14/8/2022	05:39	66.4	70
Sun	14/8/2022	05:44	65.1	70
Sun	14/8/2022	05:49	66.4	70
Sun	14/8/2022	05:54	67	70
Sun	14/8/2022	05:59	67.1	70
Sun	14/8/2022	06:04	68.6	70
Sun	14/8/2022	06:09	67.2	70
Sun	14/8/2022	06:14	67	70
Sun	14/8/2022	06:19	73	70
Sun	14/8/2022	06:24	80.4	70
Sun	14/8/2022	06:29	67.9	70
Sun	14/8/2022	06:34	74.7	70
Sun	14/8/2022	06:39	68.1	70
Sun	14/8/2022	06:44	67	70
Sun	14/8/2022	06:49	66.9	70

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	08:37	53.9	75
Sun	14/8/2022	08:42	54.4	75
Sun	14/8/2022	08:47	55.3	75
Sun	14/8/2022	08:52	53.8	75
Sun	14/8/2022	08:57	55.4	75
Sun	14/8/2022	09:02	54.3	75
Sun	14/8/2022	09:07	54.2	75
Sun	14/8/2022	09:12	54.1	75
Sun	14/8/2022	09:17	53.9	75
Sun	14/8/2022	09:22	55.2	75
Sun	14/8/2022	09:27	54.4	75
Sun	14/8/2022	09:32	53.6	75
Sun	14/8/2022	09:37	55	75
Sun	14/8/2022	09:42	56.4	75
Sun	14/8/2022	09:47	54.2	75
Sun	14/8/2022	09:52	54.1	75
Sun	14/8/2022	09:57	54.4	75
Sun	14/8/2022	10:02	53.5	75
Sun	14/8/2022	10:07	53.2	75
Sun	14/8/2022	10:12	54.4	75
Sun	14/8/2022	10:17	53.9	75
Sun	14/8/2022	10:22	53.8	75
Sun	14/8/2022	10:27	54.9	75
Sun	14/8/2022	10:32	53.1	75
Sun	14/8/2022	10:37	55.6	75
Sun	14/8/2022	10:42	55.3	75
Sun	14/8/2022	10:47	54.7	75
Sun	14/8/2022	10:52	55.6	75
Sun	14/8/2022	10:57	53	75
Sun	14/8/2022	11:02	52.7	75
Sun	14/8/2022	11:07	57.5	75
Sun	14/8/2022	11:12	55.8	75
Sun	14/8/2022	11:17	54.5	75
Sun	14/8/2022	11:22	55.9	75
Sun	14/8/2022	11:27	57.8	75
Sun	14/8/2022	11:32	56.8	75
Sun	14/8/2022	11:37	56.8	75
Sun	14/8/2022	11:42	52.8	75
Sun	14/8/2022	11:47	52.7	75
Sun	14/8/2022	11:52	58	75
Sun	14/8/2022	11:57	54.1	75
Sun	14/8/2022	12:02	54.8	75
Sun	14/8/2022	12:07	53.2	75
Sun	14/8/2022	12:12	57.8	75

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	06:54	68.1	70
Sun	14/8/2022	06:59	67.3	70
Sun	14/8/2022	07:04	66.2	90
Sun	14/8/2022	07:09	68.5	90
Sun	14/8/2022	07:14	65.8	90
Sun	14/8/2022	07:19	66.8	90
Sun	14/8/2022	07:24	67.6	90
Sun	14/8/2022	07:29	67.5	90
Sun	14/8/2022	07:34	67.1	90
Sun	14/8/2022	07:39	67.8	90
Sun	14/8/2022	07:44	68.7	90
Sun	14/8/2022	07:49	66.8	90
Sun	14/8/2022	07:54	67.2	90
Sun	14/8/2022	07:59	68.4	90
Sun	14/8/2022	08:04	66.9	90
Sun	14/8/2022	08:09	67.9	90
Sun	14/8/2022	08:14	68.5	90
Sun	14/8/2022	08:19	68.6	90
Sun	14/8/2022	08:24	67.8	90
Sun	14/8/2022	08:29	67.6	90
Sun	14/8/2022	08:34	66.8	90
Sun	14/8/2022	08:39	67.5	90
Sun	14/8/2022	08:44	70	90
Sun	14/8/2022	08:49	68.5	90
Sun	14/8/2022	08:54	68	90
Sun	14/8/2022	08:59	68.7	90
Sun	14/8/2022	09:04	68.3	90
Sun	14/8/2022	09:09	68.9	90
Sun	14/8/2022	09:14	67.9	90
Sun	14/8/2022	09:19	68	90
Sun	14/8/2022	09:24	67.5	90
Sun	14/8/2022	09:29	73.5	90
Sun	14/8/2022	09:34	68.8	90
Sun	14/8/2022	09:39	67.3	90
Sun	14/8/2022	09:44	67.6	90
Sun	14/8/2022	09:49	67.1	90
Sun	14/8/2022	09:54	68	90
Sun	14/8/2022	09:59	67.4	90
Sun	14/8/2022	10:04	66.8	90
Sun	14/8/2022	10:09	67.3	90
Sun	14/8/2022	10:14	66	90
Sun	14/8/2022	10:19	68.5	90
Sun	14/8/2022	10:24	68.1	90
Sun	14/8/2022	10:29	68.2	90

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	12:17	57.3	75
Sun	14/8/2022	12:22	56.9	75
Sun	14/8/2022	12:27	53.8	75
Sun	14/8/2022	12:32	56	75
Sun	14/8/2022	12:37	54.2	75
Sun	14/8/2022	12:42	51.4	75
Sun	14/8/2022	12:47	53.1	75
Sun	14/8/2022	12:52	54.9	75
Sun	14/8/2022	12:57	55.8	75
Sun	14/8/2022	13:02	57.1	75
Sun	14/8/2022	13:07	52.7	75
Sun	14/8/2022	13:12	53	75
Sun	14/8/2022	13:17	53.6	75
Sun	14/8/2022	13:22	51.3	75
Sun	14/8/2022	13:27	51.4	75
Sun	14/8/2022	13:32	52.9	75
Sun	14/8/2022	13:37	52.3	75
Sun	14/8/2022	13:42	51.1	75
Sun	14/8/2022	13:47	51.3	75
Sun	14/8/2022	13:52	50.9	75
Sun	14/8/2022	13:57	52.5	75
Sun	14/8/2022	14:02	51.7	75
Sun	14/8/2022	14:07	53.7	75
Sun	14/8/2022	14:12	53.1	75
Sun	14/8/2022	14:17	52	75
Sun	14/8/2022	14:22	51.7	75
Sun	14/8/2022	14:27	53	75
Sun	14/8/2022	14:32	57.2	75
Sun	14/8/2022	14:37	54.2	75
Sun	14/8/2022	14:42	54.7	75
Sun	14/8/2022	14:47	53.8	75
Sun	14/8/2022	14:52	54.1	75
Sun	14/8/2022	14:57	54.2	75
Sun	14/8/2022	15:02	54.1	75
Sun	14/8/2022	15:07	55	75
Sun	14/8/2022	15:12	53.6	75
Sun	14/8/2022	15:17	53.8	75
Sun	14/8/2022	15:22	54.6	75
Sun	14/8/2022	15:27	53.5	75
Sun	14/8/2022	15:32	53.5	75
Sun	14/8/2022	15:37	53.1	75
Sun	14/8/2022	15:42	64.8	75
Sun	14/8/2022	15:47	66.6	75
Sun	14/8/2022	15:52	56.2	75

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	10:34	66.5	90
Sun	14/8/2022	10:39	68.2	90
Sun	14/8/2022	10:44	67.6	90
Sun	14/8/2022	10:49	67.4	90
Sun	14/8/2022	10:54	67.1	90
Sun	14/8/2022	10:59	67.4	90
Sun	14/8/2022	11:04	67.2	90
Sun	14/8/2022	11:09	67.9	90
Sun	14/8/2022	11:14	67.3	90
Sun	14/8/2022	11:19	68	90
Sun	14/8/2022	11:24	67.9	90
Sun	14/8/2022	11:29	68.1	90
Sun	14/8/2022	11:34	67.7	90
Sun	14/8/2022	11:39	67.6	90
Sun	14/8/2022	11:44	66.7	90
Sun	14/8/2022	11:49	67.9	90
Sun	14/8/2022	11:54	66.9	90
Sun	14/8/2022	11:59	69	90
Sun	14/8/2022	12:04	66.5	90
Sun	14/8/2022	12:09	67.1	90
Sun	14/8/2022	12:14	68	90
Sun	14/8/2022	12:19	67.6	90
Sun	14/8/2022	12:24	68.7	90
Sun	14/8/2022	12:29	67.5	90
Sun	14/8/2022	12:34	68	90
Sun	14/8/2022	12:39	72.1	90
Sun	14/8/2022	12:44	74.2	90
Sun	14/8/2022	12:49	74.8	90
Sun	14/8/2022	12:54	73.3	90
Sun	14/8/2022	12:59	72.3	90
Sun	14/8/2022	13:04	71.5	90
Sun	14/8/2022	13:09	68.9	90
Sun	14/8/2022	13:14	69.6	90
Sun	14/8/2022	13:19	69.5	90
Sun	14/8/2022	13:24	68.8	90
Sun	14/8/2022	13:29	69.7	90
Sun	14/8/2022	13:34	68.3	90
Sun	14/8/2022	13:39	69.7	90
Sun	14/8/2022	13:44	73.2	90
Sun	14/8/2022	13:49	69.5	90
Sun	14/8/2022	13:54	69.3	90
Sun	14/8/2022	13:59	68.8	90
Sun	14/8/2022	14:04	68.3	90
Sun	14/8/2022	14:09	67.5	90

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	15:57	54.8	75
Sun	14/8/2022	16:02	53.5	75
Sun	14/8/2022	16:07	61.3	75
Sun	14/8/2022	16:12	64.4	75
Sun	14/8/2022	16:17	51.5	75
Sun	14/8/2022	16:22	58.6	75
Sun	14/8/2022	16:27	53.1	75
Sun	14/8/2022	16:32	53.6	75
Sun	14/8/2022	16:37	52.1	75
Sun	14/8/2022	16:42	52.4	75
Sun	14/8/2022	16:47	53.5	75
Sun	14/8/2022	16:52	52.6	75
Sun	14/8/2022	16:57	53	75
Sun	14/8/2022	17:02	52.6	75
Sun	14/8/2022	17:07	52.2	75
Sun	14/8/2022	17:12	52.8	75
Sun	14/8/2022	17:17	53.5	75
Sun	14/8/2022	17:22	52.8	75
Sun	14/8/2022	17:27	51.9	75
Sun	14/8/2022	17:32	52.4	75
Sun	14/8/2022	17:37	55.5	75
Sun	14/8/2022	17:42	53.9	75
Sun	14/8/2022	17:47	55.5	75
Sun	14/8/2022	17:52	57	75
Sun	14/8/2022	17:57	58	75
Sun	14/8/2022	18:02	56.2	75
Sun	14/8/2022	18:07	55.5	75
Sun	14/8/2022	18:12	57.8	75
Sun	14/8/2022	18:17	55.7	75
Sun	14/8/2022	18:22	55.2	75
Sun	14/8/2022	18:27	54.2	75
Sun	14/8/2022	18:32	54.7	75
Sun	14/8/2022	18:37	56.2	75
Sun	14/8/2022	18:42	54.3	75
Sun	14/8/2022	18:47	53.9	75
Sun	14/8/2022	18:52	53.9	75
Sun	14/8/2022	18:57	54.3	75
Sun	14/8/2022	19:02	54.2	55
Sun	14/8/2022	19:07	55	55
Sun	14/8/2022	19:12	55.5	55
Sun	14/8/2022	19:17	54.9	55
Sun	14/8/2022	19:22	56.6	55
Sun	14/8/2022	19:27	53.5	55
Sun	14/8/2022	19:32	54.7	55

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	14:14	67.7	90
Sun	14/8/2022	14:19	68.8	90
Sun	14/8/2022	14:24	67.5	90
Sun	14/8/2022	14:29	69.5	90
Sun	14/8/2022	14:34	67.8	90
Sun	14/8/2022	14:39	68.1	90
Sun	14/8/2022	14:44	67.7	90
Sun	14/8/2022	14:49	67.8	90
Sun	14/8/2022	14:54	67.8	90
Sun	14/8/2022	14:59	67.5	90
Sun	14/8/2022	15:04	68.9	90
Sun	14/8/2022	15:09	67.6	90
Sun	14/8/2022	15:14	69.1	90
Sun	14/8/2022	15:19	67.3	90
Sun	14/8/2022	15:24	68.5	90
Sun	14/8/2022	15:29	67.5	90
Sun	14/8/2022	15:34	67.3	90
Sun	14/8/2022	15:39	67.8	90
Sun	14/8/2022	15:44	68.2	90
Sun	14/8/2022	15:49	67.4	90
Sun	14/8/2022	15:54	67.9	90
Sun	14/8/2022	15:59	67.9	90
Sun	14/8/2022	16:04	68.5	90
Sun	14/8/2022	16:09	68.5	90
Sun	14/8/2022	16:14	66.8	90
Sun	14/8/2022	16:19	67.1	90
Sun	14/8/2022	16:24	68.4	90
Sun	14/8/2022	16:29	66.7	90
Sun	14/8/2022	16:34	68.1	90
Sun	14/8/2022	16:39	67.5	90
Sun	14/8/2022	16:44	66.7	90
Sun	14/8/2022	16:49	66.1	90
Sun	14/8/2022	16:54	66.2	90
Sun	14/8/2022	16:59	67.5	90
Sun	14/8/2022	17:04	66.2	90
Sun	14/8/2022	17:09	67.5	90
Sun	14/8/2022	17:14	67.5	90
Sun	14/8/2022	17:19	66.7	90
Sun	14/8/2022	17:24	67.7	90
Sun	14/8/2022	17:29	66.9	90
Sun	14/8/2022	17:34	66.1	90
Sun	14/8/2022	17:39	65.1	90
Sun	14/8/2022	17:44	67	90
Sun	14/8/2022	17:49	66.2	90

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	19:37	53.4	55
Sun	14/8/2022	19:42	54	55
Sun	14/8/2022	19:47	53.5	55
Sun	14/8/2022	19:52	53.7	55
Sun	14/8/2022	19:57	52.1	55
Sun	14/8/2022	20:02	53.4	55
Sun	14/8/2022	20:07	55.2	55
Sun	14/8/2022	20:12	53	55
Sun	14/8/2022	20:17	60.3	55
Sun	14/8/2022	20:22	52.8	55
Sun	14/8/2022	20:27	59.6	55
Sun	14/8/2022	20:32	54.3	55
Sun	14/8/2022	20:37	54.1	55
Sun	14/8/2022	20:42	51.6	55
Sun	14/8/2022	20:47	53.6	55
Sun	14/8/2022	20:52	53	55
Sun	14/8/2022	20:57	52.4	55
Sun	14/8/2022	21:02	51.9	55
Sun	14/8/2022	21:07	53.3	55
Sun	14/8/2022	21:12	52.5	55
Sun	14/8/2022	21:17	52.9	55
Sun	14/8/2022	21:22	53.9	55
Sun	14/8/2022	21:27	53.6	55
Sun	14/8/2022	21:32	53.4	55
Sun	14/8/2022	21:37	53.4	55
Sun	14/8/2022	21:42	53.9	55
Sun	14/8/2022	21:47	54.5	55
Sun	14/8/2022	21:52	53.2	55
Sun	14/8/2022	21:57	52.7	55
Sun	14/8/2022	22:02	52.8	55
Sun	14/8/2022	22:07	54.6	55
Sun	14/8/2022	22:12	53.4	55
Sun	14/8/2022	22:17	52.8	55
Sun	14/8/2022	22:22	52.3	55
Sun	14/8/2022	22:27	54.9	55
Sun	14/8/2022	22:32	53.4	55
Sun	14/8/2022	22:37	53.7	55
Sun	14/8/2022	22:42	52.3	55
Sun	14/8/2022	22:47	53	55
Sun	14/8/2022	22:52	51.5	55
Sun	14/8/2022	22:57	52.3	55
Sun	14/8/2022	23:02	51.8	55
Sun	14/8/2022	23:07	52.2	55
Sun	14/8/2022	23:12	53	55

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	17:54	67.2	90
Sun	14/8/2022	17:59	66.7	90
Sun	14/8/2022	18:04	66.7	90
Sun	14/8/2022	18:09	68.2	90
Sun	14/8/2022	18:14	67.1	90
Sun	14/8/2022	18:19	66.2	90
Sun	14/8/2022	18:24	67.4	90
Sun	14/8/2022	18:29	67.4	90
Sun	14/8/2022	18:34	69.2	90
Sun	14/8/2022	18:39	68.8	90
Sun	14/8/2022	18:44	70.4	90
Sun	14/8/2022	18:49	71	90
Sun	14/8/2022	18:54	71.6	90
Sun	14/8/2022	18:59	70.9	90
Sun	14/8/2022	19:04	70.1	70
Sun	14/8/2022	19:09	70.5	70
Sun	14/8/2022	19:14	70.2	70
Sun	14/8/2022	19:19	69.6	70
Sun	14/8/2022	19:24	68.6	70
Sun	14/8/2022	19:29	69.6	70
Sun	14/8/2022	19:34	70.1	70
Sun	14/8/2022	19:39	69.6	70
Sun	14/8/2022	19:44	68.4	70
Sun	14/8/2022	19:49	69.4	70
Sun	14/8/2022	19:54	67.6	70
Sun	14/8/2022	19:59	66.2	70
Sun	14/8/2022	20:04	67.3	70
Sun	14/8/2022	20:09	66	70
Sun	14/8/2022	20:14	68.1	70
Sun	14/8/2022	20:19	67.2	70
Sun	14/8/2022	20:24	66.9	70
Sun	14/8/2022	20:29	66.8	70
Sun	14/8/2022	20:34	66.8	70
Sun	14/8/2022	20:39	64.8	70
Sun	14/8/2022	20:44	65.7	70
Sun	14/8/2022	20:49	66.6	70
Sun	14/8/2022	20:54	64.6	70
Sun	14/8/2022	20:59	63.3	70
Sun	14/8/2022	21:04	66.1	70
Sun	14/8/2022	21:09	66.3	70
Sun	14/8/2022	21:14	66	70
Sun	14/8/2022	21:19	64.2	70
Sun	14/8/2022	21:24	63.9	70
Sun	14/8/2022	21:29	64.3	70

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	23:17	54	55
Sun	14/8/2022	23:22	52.7	55
Sun	14/8/2022	23:27	51.5	55
Sun	14/8/2022	23:32	51.2	55
Sun	14/8/2022	23:37	51.3	55
Sun	14/8/2022	23:42	53.5	55
Sun	14/8/2022	23:47	51.3	55
Sun	14/8/2022	23:52	51.9	55
Sun	14/8/2022	23:57	54.4	55
Mon	15/8/2022	00:02	51.8	55
Mon	15/8/2022	00:07	53.2	55
Mon	15/8/2022	00:12	50.9	55
Mon	15/8/2022	00:17	50.9	55
Mon	15/8/2022	00:22	51.1	55
Mon	15/8/2022	00:27	51.6	55
Mon	15/8/2022	00:32	51.8	55
Mon	15/8/2022	00:37	51.6	55
Mon	15/8/2022	00:42	51	55
Mon	15/8/2022	00:47	49.7	55
Mon	15/8/2022	00:52	49.9	55
Mon	15/8/2022	00:57	51.1	55
Mon	15/8/2022	01:02	52	55
Mon	15/8/2022	01:07	51.2	55
Mon	15/8/2022	01:12	49.5	55
Mon	15/8/2022	01:17	48	55
Mon	15/8/2022	01:22	49	55
Mon	15/8/2022	01:27	48.4	55
Mon	15/8/2022	01:32	48.9	55
Mon	15/8/2022	01:37	51.5	55
Mon	15/8/2022	01:42	51	55
Mon	15/8/2022	01:47	53.5	55
Mon	15/8/2022	01:52	50	55
Mon	15/8/2022	01:57	50.8	55
Mon	15/8/2022	02:02	49	55
Mon	15/8/2022	02:07	49.7	55
Mon	15/8/2022	02:12	50.5	55
Mon	15/8/2022	02:17	50	55
Mon	15/8/2022	02:22	49.4	55
Mon	15/8/2022	02:27	48.4	55
Mon	15/8/2022	02:32	48.6	55
Mon	15/8/2022	02:37	48.2	55
Mon	15/8/2022	02:42	48.7	55
Mon	15/8/2022	02:47	48.9	55
Mon	15/8/2022	02:52	47.4	55

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	21:34	64	70
Sun	14/8/2022	21:39	65.2	70
Sun	14/8/2022	21:44	63.3	70
Sun	14/8/2022	21:49	63.1	70
Sun	14/8/2022	21:54	64	70
Sun	14/8/2022	21:59	62.5	70
Sun	14/8/2022	22:04	67.8	70
Sun	14/8/2022	22:09	62.3	70
Sun	14/8/2022	22:14	59.4	70
Sun	14/8/2022	22:19	59.2	70
Sun	14/8/2022	22:24	61.9	70
Sun	14/8/2022	22:29	68.5	70
Sun	14/8/2022	22:34	68.9	70
Sun	14/8/2022	22:39	67.8	70
Sun	14/8/2022	22:44	67.6	70
Sun	14/8/2022	22:49	70.3	70
Sun	14/8/2022	22:54	72.9	70
Sun	14/8/2022	22:59	72.2	70
Sun	14/8/2022	23:04	72.9	70
Sun	14/8/2022	23:09	70.8	70
Sun	14/8/2022	23:14	72.9	70
Sun	14/8/2022	23:19	73.5	70
Sun	14/8/2022	23:24	72.4	70
Sun	14/8/2022	23:29	70.7	70
Sun	14/8/2022	23:34	67.2	70
Sun	14/8/2022	23:39	68.7	70
Sun	14/8/2022	23:44	68.2	70
Sun	14/8/2022	23:49	71.2	70
Sun	14/8/2022	23:54	71.8	70
Sun	14/8/2022	23:59	70.6	70
Mon	15/8/2022	00:04	68.5	70
Mon	15/8/2022	00:09	66.9	70
Mon	15/8/2022	00:14	66.8	70
Mon	15/8/2022	00:19	68.3	70
Mon	15/8/2022	00:24	64.1	70
Mon	15/8/2022	00:29	64.5	70
Mon	15/8/2022	00:34	63.7	70
Mon	15/8/2022	00:39	65.3	70
Mon	15/8/2022	00:44	66	70
Mon	15/8/2022	00:49	63.6	70
Mon	15/8/2022	00:54	62.2	70
Mon	15/8/2022	00:59	58.8	70
Mon	15/8/2022	01:04	58.6	70
Mon	15/8/2022	01:09	56.9	70

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Mon	15/8/2022	02:57	46.3	55
Mon	15/8/2022	03:02	47.2	55
Mon	15/8/2022	03:07	47.6	55
Mon	15/8/2022	03:12	46.8	55
Mon	15/8/2022	03:17	47.9	55
Mon	15/8/2022	03:22	47.7	55
Mon	15/8/2022	03:27	46.3	55
Mon	15/8/2022	03:32	46.7	55
Mon	15/8/2022	03:37	46.1	55
Mon	15/8/2022	03:42	48.6	55
Mon	15/8/2022	03:47	46	55
Mon	15/8/2022	03:52	46.2	55
Mon	15/8/2022	03:57	46.8	55
Mon	15/8/2022	04:02	48.5	55
Mon	15/8/2022	04:07	46.8	55
Mon	15/8/2022	04:12	46.9	55
Mon	15/8/2022	04:17	47.8	55
Mon	15/8/2022	04:22	47	55
Mon	15/8/2022	04:27	52.6	55
Mon	15/8/2022	04:32	46.7	55
Mon	15/8/2022	04:37	46	55
Mon	15/8/2022	04:42	46.1	55
Mon	15/8/2022	04:47	47.8	55
Mon	15/8/2022	04:52	45.2	55
Mon	15/8/2022	04:57	47.5	55
Mon	15/8/2022	05:02	46	55
Mon	15/8/2022	05:07	44.8	55
Mon	15/8/2022	05:12	46.1	55
Mon	15/8/2022	05:17	47.5	55
Mon	15/8/2022	05:22	48.3	55
Mon	15/8/2022	05:27	45.5	55
Mon	15/8/2022	05:32	45.3	55
Mon	15/8/2022	05:37	46.4	55
Mon	15/8/2022	05:42	49.6	55
Mon	15/8/2022	05:47	46.4	55
Mon	15/8/2022	05:52	45.5	55
Mon	15/8/2022	05:57	46.4	55
Mon	15/8/2022	06:02	46.7	55
Mon	15/8/2022	06:07	46.5	55
Mon	15/8/2022	06:12	46.5	55
Mon	15/8/2022	06:17	46.4	55
Mon	15/8/2022	06:22	46.2	55
Mon	15/8/2022	06:27	46.7	55
Mon	15/8/2022	06:32	46.1	55

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Mon	15/8/2022	01:14	62.8	70
Mon	15/8/2022	01:19	63.8	70
Mon	15/8/2022	01:24	65	70
Mon	15/8/2022	01:29	65.5	70
Mon	15/8/2022	01:34	61.3	70
Mon	15/8/2022	01:39	62	70
Mon	15/8/2022	01:44	60.2	70
Mon	15/8/2022	01:49	64.1	70
Mon	15/8/2022	01:54	63.1	70
Mon	15/8/2022	01:59	61.1	70
Mon	15/8/2022	02:04	62.8	70
Mon	15/8/2022	02:09	60.4	70
Mon	15/8/2022	02:14	58.1	70
Mon	15/8/2022	02:19	63.1	70
Mon	15/8/2022	02:24	60.7	70
Mon	15/8/2022	02:29	64.3	70
Mon	15/8/2022	02:34	60.7	70
Mon	15/8/2022	02:39	62.5	70
Mon	15/8/2022	02:44	65.1	70
Mon	15/8/2022	02:49	63.2	70
Mon	15/8/2022	02:54	66.6	70
Mon	15/8/2022	02:59	64.9	70
Mon	15/8/2022	03:04	67.5	70
Mon	15/8/2022	03:09	66.2	70
Mon	15/8/2022	03:14	66	70
Mon	15/8/2022	03:19	64.9	70
Mon	15/8/2022	03:24	65	70
Mon	15/8/2022	03:29	63.1	70
Mon	15/8/2022	03:34	65	70
Mon	15/8/2022	03:39	63.9	70
Mon	15/8/2022	03:44	66.1	70
Mon	15/8/2022	03:49	68.6	70
Mon	15/8/2022	03:54	68.1	70
Mon	15/8/2022	03:59	68.4	70
Mon	15/8/2022	04:04	69.2	70
Mon	15/8/2022	04:09	67.9	70
Mon	15/8/2022	04:14	67.4	70
Mon	15/8/2022	04:19	67.3	70
Mon	15/8/2022	04:24	68.9	70
Mon	15/8/2022	04:29	69.1	70
Mon	15/8/2022	04:34	69.6	70
Mon	15/8/2022	04:39	68.9	70
Mon	15/8/2022	04:44	70.3	70
Mon	15/8/2022	04:49	71.7	70

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Mon	15/8/2022	06:37	46.4	55
Mon	15/8/2022	06:42	47.4	55
Mon	15/8/2022	06:47	46.7	55
Mon	15/8/2022	06:52	47.8	55
Mon	15/8/2022	06:57	48.8	55
Mon	15/8/2022	07:02	49.7	90
Mon	15/8/2022	07:07	49.2	90
Mon	15/8/2022	07:12	49.1	90
Mon	15/8/2022	07:17	49.6	90
Mon	15/8/2022	07:22	51.4	90
Mon	15/8/2022	07:27	50.5	90
Mon	15/8/2022	07:32	51	90
Mon	15/8/2022	07:37	51.4	90
Mon	15/8/2022	07:42	52.2	90
Mon	15/8/2022	07:47	53.1	90
Mon	15/8/2022	07:52	54	90
Mon	15/8/2022	07:57	53.6	90
Mon	15/8/2022	08:02	54	90
Mon	15/8/2022	08:07	53.8	90
Mon	15/8/2022	08:12	52.8	90
Mon	15/8/2022	08:17	54.9	90
Mon	15/8/2022	08:22	55.1	90
Mon	15/8/2022	08:27	53.9	90
Mon	15/8/2022	08:32	52.6	90
Mon	15/8/2022	08:37	55.2	90
Mon	15/8/2022	08:42	53.6	90
Mon	15/8/2022	08:47	56.2	90
Mon	15/8/2022	08:52	54.4	90
Mon	15/8/2022	08:57	52.6	90
Mon	15/8/2022	09:02	54.5	90
Mon	15/8/2022	09:07	54.6	90
Mon	15/8/2022	09:12	53	90
Mon	15/8/2022	09:17	53.7	90
Mon	15/8/2022	09:22	54.8	90
Mon	15/8/2022	09:27	54.8	90
Mon	15/8/2022	09:32	54.3	90
Mon	15/8/2022	09:37	56.2	90
Mon	15/8/2022	09:42	53.4	90
Mon	15/8/2022	09:47	53.9	90
Mon	15/8/2022	09:52	53.7	90
Mon	15/8/2022	09:57	55.4	90
Mon	15/8/2022	10:02	54.4	90
Mon	15/8/2022	10:07	53.1	90
Mon	15/8/2022	10:12	54.3	90

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Mon	15/8/2022	04:54	72.1	70
Mon	15/8/2022	04:59	71.6	70
Mon	15/8/2022	05:04	72.8	70
Mon	15/8/2022	05:09	71.8	70
Mon	15/8/2022	05:14	72.6	70
Mon	15/8/2022	05:19	72.5	70
Mon	15/8/2022	05:24	72.1	70
Mon	15/8/2022	05:29	71.4	70
Mon	15/8/2022	05:34	70.8	70
Mon	15/8/2022	05:39	70.4	70
Mon	15/8/2022	05:44	71.6	70
Mon	15/8/2022	05:49	70.5	70
Mon	15/8/2022	05:54	70.2	70
Mon	15/8/2022	05:59	70.2	70
Mon	15/8/2022	06:04	69.5	70
Mon	15/8/2022	06:09	67.6	70
Mon	15/8/2022	06:14	67.8	70
Mon	15/8/2022	06:19	68.8	70
Mon	15/8/2022	06:24	69.5	70
Mon	15/8/2022	06:29	70.8	70
Mon	15/8/2022	06:34	68.4	70
Mon	15/8/2022	06:39	71	70
Mon	15/8/2022	06:44	69.7	70
Mon	15/8/2022	06:49	70.7	70
Mon	15/8/2022	06:54	71.7	70
Mon	15/8/2022	06:59	69.8	70
Mon	15/8/2022	07:04	69.5	90
Mon	15/8/2022	07:09	70.2	90
Mon	15/8/2022	07:14	70.2	90
Mon	15/8/2022	07:19	69.9	90
Mon	15/8/2022	07:24	69.5	90
Mon	15/8/2022	07:29	69.5	90
Mon	15/8/2022	07:34	68.7	90
Mon	15/8/2022	07:39	68.4	90
Mon	15/8/2022	07:44	69.7	90
Mon	15/8/2022	07:49	68.7	90
Mon	15/8/2022	07:54	68.5	90
Mon	15/8/2022	07:59	70.8	90
Mon	15/8/2022	08:04	70.7	90
Mon	15/8/2022	08:09	68.6	90
Mon	15/8/2022	08:14	68.3	90
Mon	15/8/2022	08:19	68.7	90
Mon	15/8/2022	08:24	67.4	90
Mon	15/8/2022	08:29	74.3	90

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Mon	15/8/2022	10:17	54.7	90
Mon	15/8/2022	10:22	61.6	90
Mon	15/8/2022	10:27	56.8	90
Mon	15/8/2022	10:32	58.4	90
Mon	15/8/2022	10:37	55.8	90
Mon	15/8/2022	10:42	55.7	90
Mon	15/8/2022	10:47	52.5	90
Mon	15/8/2022	10:52	53.4	90
Mon	15/8/2022	10:57	52	90
Mon	15/8/2022	11:02	62.5	90
Mon	15/8/2022	11:07	68.6	90
Mon	15/8/2022	11:12	59.2	90
Mon	15/8/2022	11:17	68.2	90
Mon	15/8/2022	11:22	65.8	90
Mon	15/8/2022	11:27	67.9	90
Mon	15/8/2022	11:32	57.6	90
Mon	15/8/2022	11:37	56.1	90
Mon	15/8/2022	11:42	55.7	90
Mon	15/8/2022	11:47	56.2	90
Mon	15/8/2022	11:52	55.2	90
Mon	15/8/2022	11:57	54.9	90
Mon	15/8/2022	12:02	58.8	90
Mon	15/8/2022	12:07	61.6	90
Mon	15/8/2022	12:12	57.6	90
Mon	15/8/2022	12:17	53.2	90
Mon	15/8/2022	12:22	56.9	90
Mon	15/8/2022	12:27	53.2	90
Mon	15/8/2022	12:32	58	90
Mon	15/8/2022	12:37	56.7	90
Mon	15/8/2022	12:42	55.7	90
Mon	15/8/2022	12:47	56.9	90
Mon	15/8/2022	12:52	59.3	90
Mon	15/8/2022	12:57	55	90
Mon	15/8/2022	13:02	54.2	90
Mon	15/8/2022	13:07	55.7	90
Mon	15/8/2022	13:12	56.4	90
Mon	15/8/2022	13:17	58.9	90
Mon	15/8/2022	13:22	58.7	90
Mon	15/8/2022	13:27	55.5	90
Mon	15/8/2022	13:32	56.7	90
Mon	15/8/2022	13:37	55.3	90
Mon	15/8/2022	13:42	55.9	90
Mon	15/8/2022	13:47	54.7	90
Mon	15/8/2022	13:52	57.6	90

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Mon	15/8/2022	08:34	73.2	90
Mon	15/8/2022	08:39	69.3	90
Mon	15/8/2022	08:44	67.7	90
Mon	15/8/2022	08:49	68.9	90
Mon	15/8/2022	08:54	68.3	90
Mon	15/8/2022	08:59	68.9	90
Mon	15/8/2022	09:04	69.4	90
Mon	15/8/2022	09:09	68.8	90
Mon	15/8/2022	09:14	67.9	90
Mon	15/8/2022	09:19	67.4	90
Mon	15/8/2022	09:24	67.9	90
Mon	15/8/2022	09:29	68.5	90
Mon	15/8/2022	09:34	68.1	90
Mon	15/8/2022	09:39	67.8	90
Mon	15/8/2022	09:44	69	90
Mon	15/8/2022	09:49	67.1	90
Mon	15/8/2022	09:54	67.4	90
Mon	15/8/2022	09:59	67	90
Mon	15/8/2022	10:04	68.6	90
Mon	15/8/2022	10:09	67	90
Mon	15/8/2022	10:14	68.1	90
Mon	15/8/2022	10:19	67	90
Mon	15/8/2022	10:24	67.6	90
Mon	15/8/2022	10:29	68.3	90
Mon	15/8/2022	10:34	67.2	90
Mon	15/8/2022	10:39	68.4	90
Mon	15/8/2022	10:44	68.5	90
Mon	15/8/2022	10:49	67.4	90
Mon	15/8/2022	10:54	68.5	90
Mon	15/8/2022	10:59	68.6	90
Mon	15/8/2022	11:04	66.3	90
Mon	15/8/2022	11:09	68	90
Mon	15/8/2022	11:14	68.7	90
Mon	15/8/2022	11:19	67.7	90
Mon	15/8/2022	11:24	67.4	90
Mon	15/8/2022	11:29	68.4	90
Mon	15/8/2022	11:34	69.9	90
Mon	15/8/2022	11:39	67.6	90
Mon	15/8/2022	11:44	67.1	90
Mon	15/8/2022	11:49	68.5	90
Mon	15/8/2022	11:54	67.9	90
Mon	15/8/2022	11:59	69.6	90
Mon	15/8/2022	12:04	68.6	90
Mon	15/8/2022	12:09	68.9	90

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Mon	15/8/2022	13:57	53.3	90
Mon	15/8/2022	14:02	54.9	90
Mon	15/8/2022	14:07	56.1	90
Mon	15/8/2022	14:12	52.4	90
Mon	15/8/2022	14:17	53.7	90
Mon	15/8/2022	14:22	54	90
Mon	15/8/2022	14:27	53.5	90
Mon	15/8/2022	14:32	53.2	90
Mon	15/8/2022	14:37	54.1	90
Mon	15/8/2022	14:42	55.4	90
Mon	15/8/2022	14:47	53.7	90
Mon	15/8/2022	14:52	54.4	90
Mon	15/8/2022	14:57	53.2	90
Mon	15/8/2022	15:02	54.9	90
Mon	15/8/2022	15:07	55.5	90
Mon	15/8/2022	15:12	53.3	90
Mon	15/8/2022	15:17	53.6	90
Mon	15/8/2022	15:22	54.8	90
Mon	15/8/2022	15:27	55.1	90
Mon	15/8/2022	15:32	54.3	90
Mon	15/8/2022	15:37	55.1	90
Mon	15/8/2022	15:42	60.4	90
Mon	15/8/2022	15:47	61.9	90
Mon	15/8/2022	15:52	60.7	90
Mon	15/8/2022	15:57	57.5	90
Mon	15/8/2022	16:02	55.2	90
Mon	15/8/2022	16:07	54	90
Mon	15/8/2022	16:12	55	90
Mon	15/8/2022	16:17	54.3	90
Mon	15/8/2022	16:22	54.6	90
Mon	15/8/2022	16:27	52.2	90
Mon	15/8/2022	16:32	53.8	90
Mon	15/8/2022	16:37	53.2	90
Mon	15/8/2022	16:42	53.6	90
Mon	15/8/2022	16:47	54.2	90
Mon	15/8/2022	16:52	54.5	90
Mon	15/8/2022	16:57	54.1	90
Mon	15/8/2022	17:02	55.6	90
Mon	15/8/2022	17:07	54.2	90
Mon	15/8/2022	17:12	55.3	90
Mon	15/8/2022	17:17	53.9	90
Mon	15/8/2022	17:22	54.6	90
Mon	15/8/2022	17:27	53.7	90
Mon	15/8/2022	17:32	54.8	90

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Mon	15/8/2022	12:14	67.7	90
Mon	15/8/2022	12:19	67.3	90
Mon	15/8/2022	12:24	68.7	90
Mon	15/8/2022	12:29	67.3	90
Mon	15/8/2022	12:34	69.8	90
Mon	15/8/2022	12:39	67.1	90
Mon	15/8/2022	12:44	70	90
Mon	15/8/2022	12:49	69.8	90
Mon	15/8/2022	12:54	67.4	90
Mon	15/8/2022	12:59	67	90
Mon	15/8/2022	13:04	66.2	90
Mon	15/8/2022	13:09	68.4	90
Mon	15/8/2022	13:14	67.3	90
Mon	15/8/2022	13:19	69.1	90
Mon	15/8/2022	13:24	67.6	90
Mon	15/8/2022	13:29	66.9	90
Mon	15/8/2022	13:34	68.5	90
Mon	15/8/2022	13:39	66.4	90
Mon	15/8/2022	13:44	68.3	90
Mon	15/8/2022	13:49	66.3	90
Mon	15/8/2022	13:54	66.9	90
Mon	15/8/2022	13:59	67.6	90
Mon	15/8/2022	14:04	67.2	90
Mon	15/8/2022	14:09	67.5	90
Mon	15/8/2022	14:14	68.2	90
Mon	15/8/2022	14:19	67	90
Mon	15/8/2022	14:24	68.4	90
Mon	15/8/2022	14:29	66.4	90
Mon	15/8/2022	14:34	67.6	90
Mon	15/8/2022	14:39	66.8	90
Mon	15/8/2022	14:44	67.2	90
Mon	15/8/2022	14:49	68.2	90
Mon	15/8/2022	14:54	72	90
Mon	15/8/2022	14:59	68.4	90
Mon	15/8/2022	15:04	67.1	90
Mon	15/8/2022	15:09	68.4	90
Mon	15/8/2022	15:14	69.3	90
Mon	15/8/2022	15:19	68.3	90
Mon	15/8/2022	15:24	68.3	90
Mon	15/8/2022	15:29	67.9	90
Mon	15/8/2022	15:34	67.8	90
Mon	15/8/2022	15:39	68.8	90
Mon	15/8/2022	15:44	68.1	90
Mon	15/8/2022	15:49	67.7	90

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Mon	15/8/2022	17:37	53.9	90
Mon	15/8/2022	17:42	54.5	90
Mon	15/8/2022	17:47	56.7	90
Mon	15/8/2022	17:52	55.6	90
Mon	15/8/2022	17:57	56.7	90
Mon	15/8/2022	18:02	56.1	90
Mon	15/8/2022	18:07	55.6	90
Mon	15/8/2022	18:12	56.8	90
Mon	15/8/2022	18:17	57.6	90
Mon	15/8/2022	18:22	54.7	90
Mon	15/8/2022	18:27	54.9	90
Mon	15/8/2022	18:32	57.5	90
Mon	15/8/2022	18:37	56.8	90
Mon	15/8/2022	18:42	54.9	90
Mon	15/8/2022	18:47	56.9	90
Mon	15/8/2022	18:52	56.8	90
Mon	15/8/2022	18:57	56.7	90
Mon	15/8/2022	19:02	57.9	70
Mon	15/8/2022	19:07	56.2	70
Mon	15/8/2022	19:12	56.7	70
Mon	15/8/2022	19:17	55.9	70
Mon	15/8/2022	19:22	57.2	70
Mon	15/8/2022	19:27	57.7	70
Mon	15/8/2022	19:32	57	70
Mon	15/8/2022	19:37	56	70
Mon	15/8/2022	19:42	55	70
Mon	15/8/2022	19:47	54.2	70
Mon	15/8/2022	19:52	55.1	70
Mon	15/8/2022	19:57	55.1	70
Mon	15/8/2022	20:02	53.8	70
Mon	15/8/2022	20:07	55.1	70
Mon	15/8/2022	20:12	54.9	70
Mon	15/8/2022	20:17	54	70
Mon	15/8/2022	20:22	53.9	70
Mon	15/8/2022	20:27	53.2	70
Mon	15/8/2022	20:32	52.3	70
Mon	15/8/2022	20:37	53.9	70
Mon	15/8/2022	20:42	53.3	70
Mon	15/8/2022	20:47	53.2	70
Mon	15/8/2022	20:52	53.4	70
Mon	15/8/2022	20:57	54.2	70
Mon	15/8/2022	21:02	52.9	70
Mon	15/8/2022	21:07	56	70
Mon	15/8/2022	21:12	54.3	70

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Mon	15/8/2022	15:54	68.4	90
Mon	15/8/2022	15:59	69.2	90
Mon	15/8/2022	16:04	67.9	90
Mon	15/8/2022	16:09	68.9	90
Mon	15/8/2022	16:14	69.6	90
Mon	15/8/2022	16:19	69.2	90
Mon	15/8/2022	16:24	68.4	90
Mon	15/8/2022	16:29	68.5	90
Mon	15/8/2022	16:34	68.7	90
Mon	15/8/2022	16:39	68.1	90
Mon	15/8/2022	16:44	67.8	90
Mon	15/8/2022	16:49	68.5	90
Mon	15/8/2022	16:54	68.3	90
Mon	15/8/2022	16:59	67.3	90
Mon	15/8/2022	17:04	67.4	90
Mon	15/8/2022	17:09	68.5	90
Mon	15/8/2022	17:14	67.5	90
Mon	15/8/2022	17:19	65.8	90
Mon	15/8/2022	17:24	66.5	90
Mon	15/8/2022	17:29	67.8	90
Mon	15/8/2022	17:34	65.8	90
Mon	15/8/2022	17:39	66.3	90
Mon	15/8/2022	17:44	66.2	90
Mon	15/8/2022	17:49	65.5	90
Mon	15/8/2022	17:54	66.9	90
Mon	15/8/2022	17:59	67.6	90
Mon	15/8/2022	18:04	67.9	90
Mon	15/8/2022	18:09	64.2	90
Mon	15/8/2022	18:14	67.5	90
Mon	15/8/2022	18:19	65.6	90
Mon	15/8/2022	18:24	66.8	90
Mon	15/8/2022	18:29	65.9	90
Mon	15/8/2022	18:34	66.2	90
Mon	15/8/2022	18:39	64.9	90
Mon	15/8/2022	18:44	67.1	90
Mon	15/8/2022	18:49	64.6	90
Mon	15/8/2022	18:54	64.9	90
Mon	15/8/2022	18:59	65.4	90
Mon	15/8/2022	19:04	65.6	70
Mon	15/8/2022	19:09	66.7	70
Mon	15/8/2022	19:14	65.2	70
Mon	15/8/2022	19:19	65.3	70
Mon	15/8/2022	19:24	65.6	70
Mon	15/8/2022	19:29	64.2	70

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Mon	15/8/2022	21:17	56.2	70
Mon	15/8/2022	21:22	55.6	70
Mon	15/8/2022	21:27	55.3	70
Mon	15/8/2022	21:32	54	70
Mon	15/8/2022	21:37	53.6	70
Mon	15/8/2022	21:42	54.9	70
Mon	15/8/2022	21:47	55.2	70
Mon	15/8/2022	21:52	56.2	70
Mon	15/8/2022	21:57	55	70
Mon	15/8/2022	22:02	56.8	55
Mon	15/8/2022	22:07	55.3	55
Mon	15/8/2022	22:12	55.2	55
Mon	15/8/2022	22:17	55.7	55
Mon	15/8/2022	22:22	54.6	55
Mon	15/8/2022	22:27	55.3	55
Mon	15/8/2022	22:32	56.9	55
Mon	15/8/2022	22:37	55.7	55
Mon	15/8/2022	22:42	57.2	55
Mon	15/8/2022	22:47	55.7	55
Mon	15/8/2022	22:52	54.9	55
Mon	15/8/2022	22:57	56.3	55
Mon	15/8/2022	23:02	55.5	55
Mon	15/8/2022	23:07	55.4	55
Mon	15/8/2022	23:12	55.2	55
Mon	15/8/2022	23:17	56.3	55
Mon	15/8/2022	23:22	54.5	55
Mon	15/8/2022	23:27	55.5	55
Mon	15/8/2022	23:32	54.8	55
Mon	15/8/2022	23:37	54.6	55
Mon	15/8/2022	23:42	54.3	55
Mon	15/8/2022	23:47	55.2	55
Mon	15/8/2022	23:52	55	55
Mon	15/8/2022	23:57	55.1	55
Tue	16/8/2022	00:02	53.8	55
Tue	16/8/2022	00:07	52.7	55
Tue	16/8/2022	00:12	53.8	55
Tue	16/8/2022	00:17	53.9	55
Tue	16/8/2022	00:22	53.4	55
Tue	16/8/2022	00:27	55.5	55
Tue	16/8/2022	00:32	53.1	55
Tue	16/8/2022	00:37	53.8	55
Tue	16/8/2022	00:42	52.7	55
Tue	16/8/2022	00:47	54.6	55
Tue	16/8/2022	00:52	53	55

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Mon	15/8/2022	19:34	65.1	70
Mon	15/8/2022	19:39	66.2	70
Mon	15/8/2022	19:44	64.5	70
Mon	15/8/2022	19:49	66.1	70
Mon	15/8/2022	19:54	64.8	70
Mon	15/8/2022	19:59	65.1	70
Mon	15/8/2022	20:04	64.5	70
Mon	15/8/2022	20:09	65.3	70
Mon	15/8/2022	20:14	63.9	70
Mon	15/8/2022	20:19	65.6	70
Mon	15/8/2022	20:24	65	70
Mon	15/8/2022	20:29	63.7	70
Mon	15/8/2022	20:34	65.2	70
Mon	15/8/2022	20:39	65	70
Mon	15/8/2022	20:44	64.1	70
Mon	15/8/2022	20:49	61.9	70
Mon	15/8/2022	20:54	65.9	70
Mon	15/8/2022	20:59	63.3	70
Mon	15/8/2022	21:04	61.9	70
Mon	15/8/2022	21:09	64.5	70
Mon	15/8/2022	21:14	63.2	70
Mon	15/8/2022	21:19	66	70
Mon	15/8/2022	21:24	63.3	70
Mon	15/8/2022	21:29	64.4	70
Mon	15/8/2022	21:34	62.3	70
Mon	15/8/2022	21:39	64.2	70
Mon	15/8/2022	21:44	62.7	70
Mon	15/8/2022	21:49	62.9	70
Mon	15/8/2022	21:54	62.2	70
Mon	15/8/2022	21:59	61.7	70
Mon	15/8/2022	22:04	62.3	70
Mon	15/8/2022	22:09	62	70
Mon	15/8/2022	22:14	60.3	70
Mon	15/8/2022	22:19	60.5	70
Mon	15/8/2022	22:24	58.6	70
Mon	15/8/2022	22:29	62.7	70
Mon	15/8/2022	22:34	60.2	70
Mon	15/8/2022	22:39	61.4	70
Mon	15/8/2022	22:44	61.2	70
Mon	15/8/2022	22:49	60.9	70
Mon	15/8/2022	22:54	58.3	70
Mon	15/8/2022	22:59	54.2	70
Mon	15/8/2022	23:04	57.9	70
Mon	15/8/2022	23:09	59.5	70

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Tue	16/8/2022	00:57	53.1	55
Tue	16/8/2022	01:02	53.1	55
Tue	16/8/2022	01:07	52.9	55
Tue	16/8/2022	01:12	53	55
Tue	16/8/2022	01:17	53.2	55
Tue	16/8/2022	01:22	52.6	55
Tue	16/8/2022	01:27	51.2	55
Tue	16/8/2022	01:32	51.8	55
Tue	16/8/2022	01:37	49.6	55
Tue	16/8/2022	01:42	52.3	55
Tue	16/8/2022	01:47	51.8	55
Tue	16/8/2022	01:52	52.3	55
Tue	16/8/2022	01:57	52.4	55
Tue	16/8/2022	02:02	51	55
Tue	16/8/2022	02:07	52	55
Tue	16/8/2022	02:12	52.9	55
Tue	16/8/2022	02:17	51.9	55
Tue	16/8/2022	02:22	53.5	55
Tue	16/8/2022	02:27	49.7	55
Tue	16/8/2022	02:32	50.2	55
Tue	16/8/2022	02:37	52	55
Tue	16/8/2022	02:42	50.6	55
Tue	16/8/2022	02:47	50.9	55
Tue	16/8/2022	02:52	48.8	55
Tue	16/8/2022	02:57	48.2	55
Tue	16/8/2022	03:02	50.4	55
Tue	16/8/2022	03:07	51.4	55
Tue	16/8/2022	03:12	50.2	55
Tue	16/8/2022	03:17	48.9	55
Tue	16/8/2022	03:22	50.1	55
Tue	16/8/2022	03:27	48.1	55
Tue	16/8/2022	03:32	56.6	55
Tue	16/8/2022	03:37	47.4	55
Tue	16/8/2022	03:42	49.4	55
Tue	16/8/2022	03:47	45.5	55
Tue	16/8/2022	03:52	48.3	55
Tue	16/8/2022	03:57	47.4	55
Tue	16/8/2022	04:02	46	55
Tue	16/8/2022	04:07	46.8	55
Tue	16/8/2022	04:12	48.7	55
Tue	16/8/2022	04:17	49.6	55
Tue	16/8/2022	04:22	53	55
Tue	16/8/2022	04:27	47.1	55
Tue	16/8/2022	04:32	47.7	55

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Mon	15/8/2022	23:14	61.1	70
Mon	15/8/2022	23:19	58.9	70
Mon	15/8/2022	23:24	68.9	70
Mon	15/8/2022	23:29	58.7	70
Mon	15/8/2022	23:34	56.1	70
Mon	15/8/2022	23:39	58.5	70
Mon	15/8/2022	23:44	61.5	70
Mon	15/8/2022	23:49	59.6	70
Mon	15/8/2022	23:54	58.7	70
Mon	15/8/2022	23:59	60.1	70
Tue	16/8/2022	00:04	57.4	70
Tue	16/8/2022	00:09	60.3	70
Tue	16/8/2022	00:14	60.2	70
Tue	16/8/2022	00:19	58.9	70
Tue	16/8/2022	00:24	58.3	70
Tue	16/8/2022	00:29	57.9	70
Tue	16/8/2022	00:34	57.9	70
Tue	16/8/2022	00:39	56.3	70
Tue	16/8/2022	00:44	57.8	70
Tue	16/8/2022	00:49	60.7	70
Tue	16/8/2022	00:54	56.8	70
Tue	16/8/2022	00:59	57.3	70
Tue	16/8/2022	01:04	55.9	70
Tue	16/8/2022	01:09	55.9	70
Tue	16/8/2022	01:14	56	70
Tue	16/8/2022	01:19	58	70
Tue	16/8/2022	01:24	60.1	70
Tue	16/8/2022	01:29	55.2	70
Tue	16/8/2022	01:34	60.2	70
Tue	16/8/2022	01:39	56.4	70
Tue	16/8/2022	01:44	55.5	70
Tue	16/8/2022	01:49	59.1	70
Tue	16/8/2022	01:54	56.7	70
Tue	16/8/2022	01:59	58.5	70
Tue	16/8/2022	02:04	54.9	70
Tue	16/8/2022	02:09	58.3	70
Tue	16/8/2022	02:14	53.8	70
Tue	16/8/2022	02:19	59.3	70
Tue	16/8/2022	02:24	55.9	70
Tue	16/8/2022	02:29	57.7	70
Tue	16/8/2022	02:34	58	70
Tue	16/8/2022	02:39	56.3	70
Tue	16/8/2022	02:44	58.9	70
Tue	16/8/2022	02:49	59.1	70

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Tue	16/8/2022	04:37	48.3	55
Tue	16/8/2022	04:42	51.6	55
Tue	16/8/2022	04:47	50.9	55
Tue	16/8/2022	04:52	51.5	55
Tue	16/8/2022	04:57	48	55
Tue	16/8/2022	05:02	51.3	55
Tue	16/8/2022	05:07	48.9	55
Tue	16/8/2022	05:12	48.8	55
Tue	16/8/2022	05:17	49.2	55
Tue	16/8/2022	05:22	49.9	55
Tue	16/8/2022	05:27	50.3	55
Tue	16/8/2022	05:32	48.3	55
Tue	16/8/2022	05:37	48.7	55
Tue	16/8/2022	05:42	48.7	55
Tue	16/8/2022	05:47	49.6	55
Tue	16/8/2022	05:52	49.4	55
Tue	16/8/2022	05:57	48.5	55
Tue	16/8/2022	06:02	52.6	55
Tue	16/8/2022	06:07	49.5	55
Tue	16/8/2022	06:12	50	55
Tue	16/8/2022	06:17	49.7	55
Tue	16/8/2022	06:22	49.9	55
Tue	16/8/2022	06:27	53.4	55
Tue	16/8/2022	06:32	50.4	55
Tue	16/8/2022	06:37	51.1	55
Tue	16/8/2022	06:42	51	55
Tue	16/8/2022	06:47	51.1	55
Tue	16/8/2022	06:52	50.2	55
Tue	16/8/2022	06:57	51	55
Tue	16/8/2022	07:02	53.4	90
Tue	16/8/2022	07:07	52.2	90
Tue	16/8/2022	07:12	52.7	90
Tue	16/8/2022	07:17	52.4	90
Tue	16/8/2022	07:22	52.3	90
Tue	16/8/2022	07:27	53	90
Tue	16/8/2022	07:32	54.6	90
Tue	16/8/2022	07:37	55	90
Tue	16/8/2022	07:42	54.6	90
Tue	16/8/2022	07:47	54.3	90
Tue	16/8/2022	07:52	55.4	90
Tue	16/8/2022	07:57	54.6	90
Tue	16/8/2022	08:02	57.2	90
Tue	16/8/2022	08:07	55.4	90
Tue	16/8/2022	08:12	55.5	90

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Tue	16/8/2022	02:54	59.6	70
Tue	16/8/2022	02:59	59.1	70
Tue	16/8/2022	03:04	60.4	70
Tue	16/8/2022	03:09	57.6	70
Tue	16/8/2022	03:14	59.4	70
Tue	16/8/2022	03:19	57.3	70
Tue	16/8/2022	03:24	60.9	70
Tue	16/8/2022	03:29	60.5	70
Tue	16/8/2022	03:34	61.3	70
Tue	16/8/2022	03:39	63.8	70
Tue	16/8/2022	03:44	64.5	70
Tue	16/8/2022	03:49	63.7	70
Tue	16/8/2022	03:54	64.2	70
Tue	16/8/2022	03:59	63.6	70
Tue	16/8/2022	04:04	63.6	70
Tue	16/8/2022	04:09	63.2	70
Tue	16/8/2022	04:14	63.8	70
Tue	16/8/2022	04:19	65.1	70
Tue	16/8/2022	04:24	64	70
Tue	16/8/2022	04:29	64.2	70
Tue	16/8/2022	04:34	64.8	70
Tue	16/8/2022	04:39	67.2	70
Tue	16/8/2022	04:44	66.5	70
Tue	16/8/2022	04:49	68.5	70
Tue	16/8/2022	04:54	69.5	70
Tue	16/8/2022	04:59	67.9	70
Tue	16/8/2022	05:04	68.7	70
Tue	16/8/2022	05:09	68.6	70
Tue	16/8/2022	05:14	68.7	70
Tue	16/8/2022	05:19	69.6	70
Tue	16/8/2022	05:24	69.8	70
Tue	16/8/2022	05:29	68.9	70
Tue	16/8/2022	05:34	70.5	70
Tue	16/8/2022	05:39	68.6	70
Tue	16/8/2022	05:44	68.6	70
Tue	16/8/2022	05:49	68.4	70
Tue	16/8/2022	05:54	68.4	70
Tue	16/8/2022	05:59	67.4	70
Tue	16/8/2022	06:04	67	70
Tue	16/8/2022	06:09	66.4	70
Tue	16/8/2022	06:14	67.3	70
Tue	16/8/2022	06:19	69.1	70
Tue	16/8/2022	06:24	69.9	70
Tue	16/8/2022	06:29	68.6	70

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Tue	16/8/2022	08:17	56.5	90
Tue	16/8/2022	08:22	55.9	90
Tue	16/8/2022	08:27	56.2	90
Tue	16/8/2022	08:32	56	90
Tue	16/8/2022	08:37	55.5	90
Tue	16/8/2022	08:42	56.6	90
Tue	16/8/2022	08:47	55.3	90
Tue	16/8/2022	08:52	59.6	90
Tue	16/8/2022	08:57	57.5	90
Tue	16/8/2022	09:02	56.8	90
Tue	16/8/2022	09:07	58.3	90
Tue	16/8/2022	09:12	54.7	90
Tue	16/8/2022	09:17	56.1	90
Tue	16/8/2022	09:22	65.1	90
Tue	16/8/2022	09:27	61.1	90
Tue	16/8/2022	09:32	56.2	90
Tue	16/8/2022	09:37	55.8	90
Tue	16/8/2022	09:42	55.7	90
Tue	16/8/2022	09:47	65.4	90
Tue	16/8/2022	09:52	57.2	90
Tue	16/8/2022	09:57	56.3	90
Tue	16/8/2022	10:02	55.1	90
Tue	16/8/2022	10:07	54.7	90
Tue	16/8/2022	10:12	55.5	90
Tue	16/8/2022	10:17	59.2	90
Tue	16/8/2022	10:22	57.3	90
Tue	16/8/2022	10:27	55.6	90
Tue	16/8/2022	10:32	53.6	90
Tue	16/8/2022	10:37	54.5	90
Tue	16/8/2022	10:42	55.3	90
Tue	16/8/2022	10:47	54.3	90
Tue	16/8/2022	10:52	54.8	90
Tue	16/8/2022	10:57	54.7	90
Tue	16/8/2022	11:02	55	90
Tue	16/8/2022	11:07	54.4	90
Tue	16/8/2022	11:12	53.2	90
Tue	16/8/2022	11:17	54.2	90
Tue	16/8/2022	11:22	54.3	90
Tue	16/8/2022	11:27	55.3	90
Tue	16/8/2022	11:32	53.1	90
Tue	16/8/2022	11:37	55.6	90
Tue	16/8/2022	11:42	53.6	90
Tue	16/8/2022	11:47	54.7	90
Tue	16/8/2022	11:52	53.5	90

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Tue	16/8/2022	06:34	68.4	70
Tue	16/8/2022	06:39	68.4	70
Tue	16/8/2022	06:44	70.1	70
Tue	16/8/2022	06:49	68.9	70
Tue	16/8/2022	06:54	71.1	70
Tue	16/8/2022	06:59	69.2	70
Tue	16/8/2022	07:04	67.5	90
Tue	16/8/2022	07:09	69.1	90
Tue	16/8/2022	07:14	69.3	90
Tue	16/8/2022	07:19	69.3	90
Tue	16/8/2022	07:24	68.1	90
Tue	16/8/2022	07:29	67.8	90
Tue	16/8/2022	07:34	67.7	90
Tue	16/8/2022	07:39	67	90
Tue	16/8/2022	07:44	67.5	90
Tue	16/8/2022	07:49	67.2	90
Tue	16/8/2022	07:54	67.4	90
Tue	16/8/2022	07:59	66.7	90
Tue	16/8/2022	08:04	66.9	90
Tue	16/8/2022	08:09	67.5	90
Tue	16/8/2022	08:14	66.9	90
Tue	16/8/2022	08:19	67.6	90
Tue	16/8/2022	08:24	66.7	90
Tue	16/8/2022	08:29	65.8	90
Tue	16/8/2022	08:34	67.7	90
Tue	16/8/2022	08:39	67.2	90
Tue	16/8/2022	08:44	69.1	90
Tue	16/8/2022	08:49	67.3	90
Tue	16/8/2022	08:54	68.3	90
Tue	16/8/2022	08:59	67.4	90
Tue	16/8/2022	09:04	67.1	90
Tue	16/8/2022	09:09	68	90
Tue	16/8/2022	09:14	68.9	90
Tue	16/8/2022	09:19	67.9	90
Tue	16/8/2022	09:24	66.7	90
Tue	16/8/2022	09:29	66.6	90
Tue	16/8/2022	09:34	67.2	90
Tue	16/8/2022	09:39	67.9	90
Tue	16/8/2022	09:44	66.6	90
Tue	16/8/2022	09:49	67.3	90
Tue	16/8/2022	09:54	66.6	90
Tue	16/8/2022	09:59	68	90
Tue	16/8/2022	10:04	65.7	90
Tue	16/8/2022	10:09	68.3	90

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Tue	16/8/2022	11:57	57.3	90
Tue	16/8/2022	12:02	53.9	90
Tue	16/8/2022	12:07	55.4	90
Tue	16/8/2022	12:12	54	90
Tue	16/8/2022	12:17	56	90
Tue	16/8/2022	12:22	56.4	90
Tue	16/8/2022	12:27	57.6	90
Tue	16/8/2022	12:32	55.8	90
Tue	16/8/2022	12:37	57	90
Tue	16/8/2022	12:42	54.6	90
Tue	16/8/2022	12:47	52.8	90
Tue	16/8/2022	12:52	53.3	90
Tue	16/8/2022	12:57	54.4	90
Tue	16/8/2022	13:02	54.6	90
Tue	16/8/2022	13:07	55.2	90
Tue	16/8/2022	13:12	54.1	90
Tue	16/8/2022	13:17	52.2	90
Tue	16/8/2022	13:22	53.6	90
Tue	16/8/2022	13:27	54.5	90
Tue	16/8/2022	13:32	51.2	90
Tue	16/8/2022	13:37	52.1	90
Tue	16/8/2022	13:42	52.6	90
Tue	16/8/2022	13:47	52	90
Tue	16/8/2022	13:52	53.1	90
Tue	16/8/2022	13:57	53.9	90
Tue	16/8/2022	14:02	51.9	90
Tue	16/8/2022	14:07	53.1	90
Tue	16/8/2022	14:12	53.5	90
Tue	16/8/2022	14:17	52.1	90
Tue	16/8/2022	14:22	55.1	90
Tue	16/8/2022	14:27	57.1	90
Tue	16/8/2022	14:32	54	90
Tue	16/8/2022	14:37	53.5	90
Tue	16/8/2022	14:42	52.7	90
Tue	16/8/2022	14:47	53.3	90
Tue	16/8/2022	14:52	53.6	90
Tue	16/8/2022	14:57	53.7	90
Tue	16/8/2022	15:02	52.6	90
Tue	16/8/2022	15:07	53.6	90
Tue	16/8/2022	15:12	52.8	90
Tue	16/8/2022	15:17	54.9	90
Tue	16/8/2022	15:22	51.2	90
Tue	16/8/2022	15:27	52.4	90
Tue	16/8/2022	15:32	52.7	90

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Tue	16/8/2022	10:14	67.2	90
Tue	16/8/2022	10:19	66.7	90
Tue	16/8/2022	10:24	67.4	90
Tue	16/8/2022	10:29	66.4	90
Tue	16/8/2022	10:34	67.2	90
Tue	16/8/2022	10:39	67.4	90
Tue	16/8/2022	10:44	67.8	90
Tue	16/8/2022	10:49	66.2	90
Tue	16/8/2022	10:54	66.5	90
Tue	16/8/2022	10:59	66.8	90
Tue	16/8/2022	11:04	68.2	90
Tue	16/8/2022	11:09	65.2	90
Tue	16/8/2022	11:14	66.6	90
Tue	16/8/2022	11:19	67.7	90
Tue	16/8/2022	11:24	66.8	90
Tue	16/8/2022	11:29	66.5	90
Tue	16/8/2022	11:34	68.8	90
Tue	16/8/2022	11:39	74.2	90
Tue	16/8/2022	11:44	74	90
Tue	16/8/2022	11:49	76.1	90
Tue	16/8/2022	11:54	72.9	90
Tue	16/8/2022	11:59	71.4	90
Tue	16/8/2022	12:04	69.4	90
Tue	16/8/2022	12:09	69.2	90
Tue	16/8/2022	12:14	69.2	90
Tue	16/8/2022	12:19	69.2	90
Tue	16/8/2022	12:24	69.5	90
Tue	16/8/2022	12:29	67.5	90
Tue	16/8/2022	12:34	68.5	90
Tue	16/8/2022	12:39	67.7	90
Tue	16/8/2022	12:44	67.6	90
Tue	16/8/2022	12:49	68	90
Tue	16/8/2022	12:54	68.5	90
Tue	16/8/2022	12:59	66.5	90
Tue	16/8/2022	13:04	66.7	90
Tue	16/8/2022	13:09	68.7	90
Tue	16/8/2022	13:14	68.4	90
Tue	16/8/2022	13:19	68.4	90
Tue	16/8/2022	13:24	67.5	90
Tue	16/8/2022	13:29	68.4	90
Tue	16/8/2022	13:34	67.2	90
Tue	16/8/2022	13:39	67.1	90
Tue	16/8/2022	13:44	68.9	90
Tue	16/8/2022	13:49	67.2	90

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Tue	16/8/2022	15:37	54.7	90
Tue	16/8/2022	15:42	54.3	90
Tue	16/8/2022	15:47	64.8	90
Tue	16/8/2022	15:52	53.8	90
Tue	16/8/2022	15:57	57.1	90
Tue	16/8/2022	16:02	54.3	90
Tue	16/8/2022	16:07	52.4	90
Tue	16/8/2022	16:12	54	90
Tue	16/8/2022	16:17	54.3	90
Tue	16/8/2022	16:22	55.7	90
Tue	16/8/2022	16:27	54.5	90
Tue	16/8/2022	16:32	52.7	90
Tue	16/8/2022	16:37	54.2	90
Tue	16/8/2022	16:42	53.3	90
Tue	16/8/2022	16:47	53.3	90
Tue	16/8/2022	16:52	55.2	90
Tue	16/8/2022	16:57	53.4	90
Tue	16/8/2022	17:02	54.5	90
Tue	16/8/2022	17:07	55.9	90
Tue	16/8/2022	17:12	54.5	90
Tue	16/8/2022	17:17	55.2	90
Tue	16/8/2022	17:22	54.4	90
Tue	16/8/2022	17:27	54.3	90
Tue	16/8/2022	17:32	55	90
Tue	16/8/2022	17:37	53.2	90
Tue	16/8/2022	17:42	56.6	90
Tue	16/8/2022	17:47	57.1	90
Tue	16/8/2022	17:52	54.4	90
Tue	16/8/2022	17:57	56	90
Tue	16/8/2022	18:02	55.1	90
Tue	16/8/2022	18:07	56.7	90
Tue	16/8/2022	18:12	57.8	90
Tue	16/8/2022	18:17	59.3	90
Tue	16/8/2022	18:22	58	90
Tue	16/8/2022	18:27	57	90
Tue	16/8/2022	18:32	55.3	90
Tue	16/8/2022	18:37	56.1	90
Tue	16/8/2022	18:42	57.6	90
Tue	16/8/2022	18:47	57.1	90
Tue	16/8/2022	18:52	56.9	90
Tue	16/8/2022	18:57	55.4	90
Tue	16/8/2022	19:02	54.6	70
Tue	16/8/2022	19:07	56	70
Tue	16/8/2022	19:12	55.5	70

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Tue	16/8/2022	13:54	66.7	90
Tue	16/8/2022	13:59	67.4	90
Tue	16/8/2022	14:04	67.3	90
Tue	16/8/2022	14:09	66.8	90
Tue	16/8/2022	14:14	67.2	90
Tue	16/8/2022	14:19	66.8	90
Tue	16/8/2022	14:24	68	90
Tue	16/8/2022	14:29	68.8	90
Tue	16/8/2022	14:34	66.9	90
Tue	16/8/2022	14:39	68.3	90
Tue	16/8/2022	14:44	68.2	90
Tue	16/8/2022	14:49	67.6	90
Tue	16/8/2022	14:54	69	90
Tue	16/8/2022	14:59	68.7	90
Tue	16/8/2022	15:04	69.1	90
Tue	16/8/2022	15:09	70.4	90
Tue	16/8/2022	15:14	68.9	90
Tue	16/8/2022	15:19	70.2	90
Tue	16/8/2022	15:24	70.3	90
Tue	16/8/2022	15:29	70	90
Tue	16/8/2022	15:34	70	90
Tue	16/8/2022	15:39	69.4	90
Tue	16/8/2022	15:44	70.4	90
Tue	16/8/2022	15:49	69.2	90
Tue	16/8/2022	15:54	69.4	90
Tue	16/8/2022	15:59	70.4	90
Tue	16/8/2022	16:04	69.9	90
Tue	16/8/2022	16:09	69.7	90
Tue	16/8/2022	16:14	70	90
Tue	16/8/2022	16:19	71.5	90
Tue	16/8/2022	16:24	70.3	90
Tue	16/8/2022	16:29	71.2	90
Tue	16/8/2022	16:34	71.5	90
Tue	16/8/2022	16:39	70.7	90
Tue	16/8/2022	16:44	69.8	90
Tue	16/8/2022	16:49	70	90
Tue	16/8/2022	16:54	70.6	90
Tue	16/8/2022	16:59	68.6	90
Tue	16/8/2022	17:04	69.2	90
Tue	16/8/2022	17:09	68.5	90
Tue	16/8/2022	17:14	68.7	90
Tue	16/8/2022	17:19	69	90
Tue	16/8/2022	17:24	69.6	90
Tue	16/8/2022	17:29	69.8	90

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Tue	16/8/2022	19:17	55.8	70
Tue	16/8/2022	19:22	55	70
Tue	16/8/2022	19:27	55.3	70
Tue	16/8/2022	19:32	55	70
Tue	16/8/2022	19:37	53.9	70
Tue	16/8/2022	19:42	54.4	70
Tue	16/8/2022	19:47	54.5	70
Tue	16/8/2022	19:52	53.7	70
Tue	16/8/2022	19:57	54.3	70
Tue	16/8/2022	20:02	52.8	70
Tue	16/8/2022	20:07	53.5	70
Tue	16/8/2022	20:12	52.7	70
Tue	16/8/2022	20:17	64.2	70
Tue	16/8/2022	20:22	57.8	70
Tue	16/8/2022	20:27	54	70
Tue	16/8/2022	20:32	53	70
Tue	16/8/2022	20:37	57.6	70
Tue	16/8/2022	20:42	52.3	70
Tue	16/8/2022	20:47	52.1	70
Tue	16/8/2022	20:52	53	70
Tue	16/8/2022	20:57	53.1	70
Tue	16/8/2022	21:02	51.9	70
Tue	16/8/2022	21:07	54.4	70
Tue	16/8/2022	21:12	54.7	70
Tue	16/8/2022	21:17	54.4	70
Tue	16/8/2022	21:22	53.8	70
Tue	16/8/2022	21:27	55.1	70
Tue	16/8/2022	21:32	54	70
Tue	16/8/2022	21:37	54.3	70
Tue	16/8/2022	21:42	54	70
Tue	16/8/2022	21:47	54.9	70
Tue	16/8/2022	21:52	53.9	70
Tue	16/8/2022	21:57	53.9	70
Tue	16/8/2022	22:02	54	55
Tue	16/8/2022	22:07	53.8	55
Tue	16/8/2022	22:12	53.2	55
Tue	16/8/2022	22:17	53.4	55
Tue	16/8/2022	22:22	54.3	55
Tue	16/8/2022	22:27	54	55
Tue	16/8/2022	22:32	53.6	55
Tue	16/8/2022	22:37	54.1	55
Tue	16/8/2022	22:42	53.1	55
Tue	16/8/2022	22:47	55.2	55
Tue	16/8/2022	22:52	53.1	55

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Tue	16/8/2022	17:34	68.7	90
Tue	16/8/2022	17:39	69.3	90
Tue	16/8/2022	17:44	69.8	90
Tue	16/8/2022	17:49	68.4	90
Tue	16/8/2022	17:54	68.6	90
Tue	16/8/2022	17:59	69.8	90
Tue	16/8/2022	18:04	67.8	90
Tue	16/8/2022	18:09	67.6	90
Tue	16/8/2022	18:14	70.7	90
Tue	16/8/2022	18:19	66.2	90
Tue	16/8/2022	18:24	67	90
Tue	16/8/2022	18:29	67	90
Tue	16/8/2022	18:34	67.9	90
Tue	16/8/2022	18:39	70.7	90
Tue	16/8/2022	18:44	67	90
Tue	16/8/2022	18:49	68	90
Tue	16/8/2022	18:54	66	90
Tue	16/8/2022	18:59	66.1	90
Tue	16/8/2022	19:04	66.9	70
Tue	16/8/2022	19:09	66.6	70
Tue	16/8/2022	19:14	66.5	70
Tue	16/8/2022	19:19	65.3	70
Tue	16/8/2022	19:24	65.6	70
Tue	16/8/2022	19:29	66.2	70
Tue	16/8/2022	19:34	66.5	70
Tue	16/8/2022	19:39	66.9	70
Tue	16/8/2022	19:44	66.2	70
Tue	16/8/2022	19:49	66.7	70
Tue	16/8/2022	19:54	65.6	70
Tue	16/8/2022	19:59	66.3	70
Tue	16/8/2022	20:04	66.5	70
Tue	16/8/2022	20:09	66.2	70
Tue	16/8/2022	20:14	66.1	70
Tue	16/8/2022	20:19	65.8	70
Tue	16/8/2022	20:24	66.2	70
Tue	16/8/2022	20:29	64.3	70
Tue	16/8/2022	20:34	65.4	70
Tue	16/8/2022	20:39	65.9	70
Tue	16/8/2022	20:44	64.3	70
Tue	16/8/2022	20:49	65.1	70
Tue	16/8/2022	20:54	63	70
Tue	16/8/2022	20:59	64.3	70
Tue	16/8/2022	21:04	64.4	70
Tue	16/8/2022	21:09	71	70

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Tue	16/8/2022	22:57	55.2	55
Tue	16/8/2022	23:02	53.7	55
Tue	16/8/2022	23:07	54.1	55
Tue	16/8/2022	23:12	52.7	55
Tue	16/8/2022	23:17	53.6	55
Tue	16/8/2022	23:22	54.2	55
Tue	16/8/2022	23:27	53.8	55
Tue	16/8/2022	23:32	53.5	55
Tue	16/8/2022	23:37	53.2	55
Tue	16/8/2022	23:42	54.5	55
Tue	16/8/2022	23:47	53.3	55
Tue	16/8/2022	23:52	53.8	55
Tue	16/8/2022	23:57	53.8	55
Wed	17/8/2022	00:02	52.7	55
Wed	17/8/2022	00:07	53.2	55
Wed	17/8/2022	00:12	52.6	55
Wed	17/8/2022	00:17	52.9	55
Wed	17/8/2022	00:22	53.3	55
Wed	17/8/2022	00:27	52.4	55
Wed	17/8/2022	00:32	52.9	55
Wed	17/8/2022	00:37	53	55
Wed	17/8/2022	00:42	52.4	55
Wed	17/8/2022	00:47	52.2	55
Wed	17/8/2022	00:52	51.1	55
Wed	17/8/2022	00:57	50.9	55
Wed	17/8/2022	01:02	51.9	55
Wed	17/8/2022	01:07	52	55
Wed	17/8/2022	01:12	53.3	55
Wed	17/8/2022	01:17	50.3	55
Wed	17/8/2022	01:22	53.4	55
Wed	17/8/2022	01:27	51.1	55
Wed	17/8/2022	01:32	51.6	55
Wed	17/8/2022	01:37	52.1	55
Wed	17/8/2022	01:42	49.5	55
Wed	17/8/2022	01:47	50.7	55
Wed	17/8/2022	01:52	51.1	55
Wed	17/8/2022	01:57	50.5	55
Wed	17/8/2022	02:02	48.7	55
Wed	17/8/2022	02:07	50.6	55
Wed	17/8/2022	02:12	51	55
Wed	17/8/2022	02:17	51.2	55
Wed	17/8/2022	02:22	52.5	55
Wed	17/8/2022	02:27	50.5	55
Wed	17/8/2022	02:32	50.4	55

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Tue	16/8/2022	21:14	62.9	70
Tue	16/8/2022	21:19	64	70
Tue	16/8/2022	21:24	63.3	70
Tue	16/8/2022	21:29	64.6	70
Tue	16/8/2022	21:34	63.3	70
Tue	16/8/2022	21:39	64	70
Tue	16/8/2022	21:44	62	70
Tue	16/8/2022	21:49	64.4	70
Tue	16/8/2022	21:54	62.7	70
Tue	16/8/2022	21:59	61.6	70
Tue	16/8/2022	22:04	64.9	70
Tue	16/8/2022	22:09	61.4	70
Tue	16/8/2022	22:14	62	70
Tue	16/8/2022	22:19	62.6	70
Tue	16/8/2022	22:24	61.2	70
Tue	16/8/2022	22:29	60.8	70
Tue	16/8/2022	22:34	60.1	70
Tue	16/8/2022	22:39	61.9	70
Tue	16/8/2022	22:44	61.5	70
Tue	16/8/2022	22:49	62.4	70
Tue	16/8/2022	22:54	58.7	70
Tue	16/8/2022	22:59	58.7	70
Tue	16/8/2022	23:04	59.4	70
Tue	16/8/2022	23:09	59.9	70
Tue	16/8/2022	23:14	59.7	70
Tue	16/8/2022	23:19	60.3	70
Tue	16/8/2022	23:24	57.3	70
Tue	16/8/2022	23:29	58	70
Tue	16/8/2022	23:34	57.8	70
Tue	16/8/2022	23:39	58.3	70
Tue	16/8/2022	23:44	57.4	70
Tue	16/8/2022	23:49	56.3	70
Tue	16/8/2022	23:54	60.7	70
Tue	16/8/2022	23:59	62.2	70
Wed	17/8/2022	00:04	56.6	70
Wed	17/8/2022	00:09	61.1	70
Wed	17/8/2022	00:14	56.5	70
Wed	17/8/2022	00:19	55	70
Wed	17/8/2022	00:24	58.5	70
Wed	17/8/2022	00:29	58.9	70
Wed	17/8/2022	00:34	56.2	70
Wed	17/8/2022	00:39	59.8	70
Wed	17/8/2022	00:44	64.1	70
Wed	17/8/2022	00:49	56.8	70

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Wed	17/8/2022	02:37	48.9	55
Wed	17/8/2022	02:42	50.5	55
Wed	17/8/2022	02:47	51.1	55
Wed	17/8/2022	02:52	48.9	55
Wed	17/8/2022	02:57	48.9	55
Wed	17/8/2022	03:02	49.6	55
Wed	17/8/2022	03:07	49.3	55
Wed	17/8/2022	03:12	49.6	55
Wed	17/8/2022	03:17	49.5	55
Wed	17/8/2022	03:22	50.3	55
Wed	17/8/2022	03:27	53.2	55
Wed	17/8/2022	03:32	49.4	55
Wed	17/8/2022	03:37	47.7	55
Wed	17/8/2022	03:42	49.2	55
Wed	17/8/2022	03:47	49.8	55
Wed	17/8/2022	03:52	49.6	55
Wed	17/8/2022	03:57	47	55
Wed	17/8/2022	04:02	47.6	55
Wed	17/8/2022	04:07	47.4	55
Wed	17/8/2022	04:12	47.2	55
Wed	17/8/2022	04:17	48.5	55
Wed	17/8/2022	04:22	48.6	55
Wed	17/8/2022	04:27	48	55
Wed	17/8/2022	04:32	48	55
Wed	17/8/2022	04:37	48.7	55
Wed	17/8/2022	04:42	48.9	55
Wed	17/8/2022	04:47	49.3	55
Wed	17/8/2022	04:52	49.2	55
Wed	17/8/2022	04:57	48.7	55
Wed	17/8/2022	05:02	51.1	55
Wed	17/8/2022	05:07	49.9	55
Wed	17/8/2022	05:12	50.2	55
Wed	17/8/2022	05:17	50	55
Wed	17/8/2022	05:22	49.2	55
Wed	17/8/2022	05:27	48.8	55
Wed	17/8/2022	05:32	48.9	55
Wed	17/8/2022	05:37	48	55
Wed	17/8/2022	05:42	46.7	55
Wed	17/8/2022	05:47	48.7	55
Wed	17/8/2022	05:52	48.8	55
Wed	17/8/2022	05:57	48.4	55
Wed	17/8/2022	06:02	50.8	55
Wed	17/8/2022	06:07	48.9	55
Wed	17/8/2022	06:12	48.9	55

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Wed	17/8/2022	00:54	57.3	70
Wed	17/8/2022	00:59	60	70
Wed	17/8/2022	01:04	62.9	70
Wed	17/8/2022	01:09	60.5	70
Wed	17/8/2022	01:14	61.3	70
Wed	17/8/2022	01:19	60.4	70
Wed	17/8/2022	01:24	56.7	70
Wed	17/8/2022	01:29	55.1	70
Wed	17/8/2022	01:34	56.1	70
Wed	17/8/2022	01:39	57.9	70
Wed	17/8/2022	01:44	54.4	70
Wed	17/8/2022	01:49	55.7	70
Wed	17/8/2022	01:54	57.9	70
Wed	17/8/2022	01:59	55.4	70
Wed	17/8/2022	02:04	62.3	70
Wed	17/8/2022	02:09	56.5	70
Wed	17/8/2022	02:14	56.8	70
Wed	17/8/2022	02:19	59.1	70
Wed	17/8/2022	02:24	58.3	70
Wed	17/8/2022	02:29	59.5	70
Wed	17/8/2022	02:34	56.9	70
Wed	17/8/2022	02:39	59.1	70
Wed	17/8/2022	02:44	58.8	70
Wed	17/8/2022	02:49	55.6	70
Wed	17/8/2022	02:54	60.1	70
Wed	17/8/2022	02:59	61.5	70
Wed	17/8/2022	03:04	60.5	70
Wed	17/8/2022	03:09	56.2	70
Wed	17/8/2022	03:14	59.1	70
Wed	17/8/2022	03:19	60.9	70
Wed	17/8/2022	03:24	56.1	70
Wed	17/8/2022	03:29	59.4	70
Wed	17/8/2022	03:34	60.6	70
Wed	17/8/2022	03:39	62.7	70
Wed	17/8/2022	03:44	64	70
Wed	17/8/2022	03:49	65.1	70
Wed	17/8/2022	03:54	64.6	70
Wed	17/8/2022	03:59	64.5	70
Wed	17/8/2022	04:04	64.5	70
Wed	17/8/2022	04:09	65.1	70
Wed	17/8/2022	04:14	64.8	70
Wed	17/8/2022	04:19	63.7	70
Wed	17/8/2022	04:24	65.7	70
Wed	17/8/2022	04:29	65.8	70

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Wed	17/8/2022	06:17	49.3	55
Wed	17/8/2022	06:22	49.2	55
Wed	17/8/2022	06:27	50.1	55
Wed	17/8/2022	06:32	49	55
Wed	17/8/2022	06:37	50.4	55
Wed	17/8/2022	06:42	50.3	55
Wed	17/8/2022	06:47	50.7	55
Wed	17/8/2022	06:52	50.5	55
Wed	17/8/2022	06:57	49.7	55
Wed	17/8/2022	07:02	50.2	90
Wed	17/8/2022	07:07	50.1	90
Wed	17/8/2022	07:12	51.4	90
Wed	17/8/2022	07:17	51.2	90
Wed	17/8/2022	07:22	50.7	90
Wed	17/8/2022	07:27	53.3	90
Wed	17/8/2022	07:32	51.8	90
Wed	17/8/2022	07:37	52.5	90
Wed	17/8/2022	07:42	53	90
Wed	17/8/2022	07:47	54.6	90
Wed	17/8/2022	07:52	54.1	90
Wed	17/8/2022	07:57	57	90
Wed	17/8/2022	08:02	56.7	90
Wed	17/8/2022	08:07	53.9	90
Wed	17/8/2022	08:12	54.7	90
Wed	17/8/2022	08:17	54.7	90
Wed	17/8/2022	08:22	54.5	90
Wed	17/8/2022	08:27	56.8	90
Wed	17/8/2022	08:32	54.3	90
Wed	17/8/2022	08:37	52.8	90
Wed	17/8/2022	08:42	54.3	90
Wed	17/8/2022	08:47	61.1	90
Wed	17/8/2022	08:52	54.4	90
Wed	17/8/2022	08:57	54.9	90
Wed	17/8/2022	09:02	54.2	90
Wed	17/8/2022	09:07	57.3	90
Wed	17/8/2022	09:12	54.2	90
Wed	17/8/2022	09:17	53.4	90
Wed	17/8/2022	09:22	53.8	90
Wed	17/8/2022	09:27	57.4	90
Wed	17/8/2022	09:32	59.1	90
Wed	17/8/2022	09:37	53.6	90
Wed	17/8/2022	09:42	54.4	90
Wed	17/8/2022	09:47	54.4	90
Wed	17/8/2022	09:52	55.6	90

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Wed	17/8/2022	04:34	65.2	70
Wed	17/8/2022	04:39	67.2	70
Wed	17/8/2022	04:44	67.6	70
Wed	17/8/2022	04:49	68.4	70
Wed	17/8/2022	04:54	68.4	70
Wed	17/8/2022	04:59	68.9	70
Wed	17/8/2022	05:04	69.3	70
Wed	17/8/2022	05:09	69.4	70
Wed	17/8/2022	05:14	69.9	70
Wed	17/8/2022	05:19	69.4	70
Wed	17/8/2022	05:24	69.2	70
Wed	17/8/2022	05:29	68.9	70
Wed	17/8/2022	05:34	69.1	70
Wed	17/8/2022	05:39	69.2	70
Wed	17/8/2022	05:44	68	70
Wed	17/8/2022	05:49	69.1	70
Wed	17/8/2022	05:54	69	70
Wed	17/8/2022	05:59	69.4	70
Wed	17/8/2022	06:04	69.1	70
Wed	17/8/2022	06:09	68.6	70
Wed	17/8/2022	06:14	68.3	70
Wed	17/8/2022	06:19	68	70
Wed	17/8/2022	06:24	66.9	70
Wed	17/8/2022	06:29	66.7	70
Wed	17/8/2022	06:34	67.7	70
Wed	17/8/2022	06:39	68.5	70
Wed	17/8/2022	06:44	68.2	70
Wed	17/8/2022	06:49	68.7	70
Wed	17/8/2022	06:54	68.4	70
Wed	17/8/2022	06:59	69.2	70
Wed	17/8/2022	07:04	68.6	90
Wed	17/8/2022	07:09	69.4	90
Wed	17/8/2022	07:14	69.4	90
Wed	17/8/2022	07:19	70.7	90
Wed	17/8/2022	07:24	67.7	90
Wed	17/8/2022	07:29	68.2	90
Wed	17/8/2022	07:34	68.3	90
Wed	17/8/2022	07:39	68.9	90
Wed	17/8/2022	07:44	69.3	90
Wed	17/8/2022	07:49	70.2	90
Wed	17/8/2022	07:54	67.2	90
Wed	17/8/2022	07:59	68.4	90
Wed	17/8/2022	08:04	67.6	90
Wed	17/8/2022	08:09	69.1	90

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Wed	17/8/2022	09:57	54.9	90
Wed	17/8/2022	10:02	53.6	90
Wed	17/8/2022	10:07	56.5	90
Wed	17/8/2022	10:12	64	90
Wed	17/8/2022	10:17	71	90
Wed	17/8/2022	10:22	63.2	90
Wed	17/8/2022	10:27	57.5	90
Wed	17/8/2022	10:32	58.1	90
Wed	17/8/2022	10:37	57	90
Wed	17/8/2022	10:42	55.5	90
Wed	17/8/2022	10:47	57.4	90
Wed	17/8/2022	10:52	56.8	90
Wed	17/8/2022	10:57	55.9	90
Wed	17/8/2022	11:02	54.6	90
Wed	17/8/2022	11:07	58.9	90
Wed	17/8/2022	11:12	55.8	90
Wed	17/8/2022	11:17	57.6	90
Wed	17/8/2022	11:22	57.3	90
Wed	17/8/2022	11:27	58.6	90
Wed	17/8/2022	11:32	55.2	90
Wed	17/8/2022	11:37	55	90
Wed	17/8/2022	11:42	55.1	90
Wed	17/8/2022	11:47	54.6	90
Wed	17/8/2022	11:52	57.2	90
Wed	17/8/2022	11:57	56.5	90
Wed	17/8/2022	12:02	54.5	90
Wed	17/8/2022	12:07	55.6	90
Wed	17/8/2022	12:12	55.7	90
Wed	17/8/2022	12:17	53.8	90
Wed	17/8/2022	12:22	53.7	90
Wed	17/8/2022	12:27	54.6	90
Wed	17/8/2022	12:32	55.3	90
Wed	17/8/2022	12:37	55.1	90
Wed	17/8/2022	12:42	54.7	90
Wed	17/8/2022	12:47	52.5	90
Wed	17/8/2022	12:52	55.3	90
Wed	17/8/2022	12:57	52.8	90
Wed	17/8/2022	13:02	53.6	90
Wed	17/8/2022	13:07	54.5	90
Wed	17/8/2022	13:12	54.3	90
Wed	17/8/2022	13:17	52.7	90
Wed	17/8/2022	13:22	53.6	90
Wed	17/8/2022	13:27	53.3	90
Wed	17/8/2022	13:32	55	90

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Wed	17/8/2022	08:14	67.7	90
Wed	17/8/2022	08:19	68.7	90
Wed	17/8/2022	08:24	69.6	90
Wed	17/8/2022	08:29	67.2	90
Wed	17/8/2022	08:34	68	90
Wed	17/8/2022	08:39	67	90
Wed	17/8/2022	08:44	68.4	90
Wed	17/8/2022	08:49	67.4	90
Wed	17/8/2022	08:54	67.7	90
Wed	17/8/2022	08:59	67.5	90
Wed	17/8/2022	09:04	67.6	90
Wed	17/8/2022	09:09	67.2	90
Wed	17/8/2022	09:14	67.7	90
Wed	17/8/2022	09:19	67.6	90
Wed	17/8/2022	09:24	67.5	90
Wed	17/8/2022	09:29	66.8	90
Wed	17/8/2022	09:34	66.8	90
Wed	17/8/2022	09:39	66.9	90
Wed	17/8/2022	09:44	67.6	90
Wed	17/8/2022	09:49	67.5	90
Wed	17/8/2022	09:54	66.6	90
Wed	17/8/2022	09:59	66.7	90
Wed	17/8/2022	10:04	67.9	90
Wed	17/8/2022	10:09	66.4	90
Wed	17/8/2022	10:14	68.9	90
Wed	17/8/2022	10:19	67.9	90
Wed	17/8/2022	10:24	67.4	90
Wed	17/8/2022	10:29	66.1	90
Wed	17/8/2022	10:34	66.4	90
Wed	17/8/2022	10:39	67.5	90
Wed	17/8/2022	10:44	66.5	90
Wed	17/8/2022	10:49	67.6	90
Wed	17/8/2022	10:54	67.7	90
Wed	17/8/2022	10:59	66.4	90
Wed	17/8/2022	11:04	69.9	90
Wed	17/8/2022	11:09	66.8	90
Wed	17/8/2022	11:14	66.9	90
Wed	17/8/2022	11:19	68.5	90
Wed	17/8/2022	11:24	67.9	90
Wed	17/8/2022	11:29	70.8	90
Wed	17/8/2022	11:34	68.2	90
Wed	17/8/2022	11:39	66.2	90
Wed	17/8/2022	11:44	66.8	90
Wed	17/8/2022	11:49	68.4	90

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Wed	17/8/2022	13:37	55.5	90
Wed	17/8/2022	13:42	53.4	90
Wed	17/8/2022	13:47	53.9	90
Wed	17/8/2022	13:52	54.9	90
Wed	17/8/2022	13:57	54	90
Wed	17/8/2022	14:02	53.7	90
Wed	17/8/2022	14:07	53	90
Wed	17/8/2022	14:12	53	90
Wed	17/8/2022	14:17	53.9	90
Wed	17/8/2022	14:22	53.7	90
Wed	17/8/2022	14:27	54.4	90
Wed	17/8/2022	14:32	54.9	90
Wed	17/8/2022	14:37	56.2	90
Wed	17/8/2022	14:42	56.2	90
Wed	17/8/2022	14:47	52.9	90
Wed	17/8/2022	14:52	53.5	90
Wed	17/8/2022	14:57	52.8	90
Wed	17/8/2022	15:02	52.5	90
Wed	17/8/2022	15:07	52.6	90
Wed	17/8/2022	15:12	53.6	90
Wed	17/8/2022	15:17	52.1	90
Wed	17/8/2022	15:22	52.5	90
Wed	17/8/2022	15:27	53.7	90
Wed	17/8/2022	15:32	52.7	90
Wed	17/8/2022	15:37	54.4	90
Wed	17/8/2022	15:42	56.6	90
Wed	17/8/2022	15:47	54.6	90
Wed	17/8/2022	15:52	54.1	90
Wed	17/8/2022	15:57	54.3	90
Wed	17/8/2022	16:02	53.2	90
Wed	17/8/2022	16:07	53.7	90
Wed	17/8/2022	16:12	54.3	90
Wed	17/8/2022	16:17	53.7	90
Wed	17/8/2022	16:22	55.2	90
Wed	17/8/2022	16:27	50.5	90
Wed	17/8/2022	16:32	48.7	90
Wed	17/8/2022	16:37	50.6	90
Wed	17/8/2022	16:42	51	90
Wed	17/8/2022	16:47	51.2	90
Wed	17/8/2022	16:52	52.5	90
Wed	17/8/2022	16:57	50.5	90
Wed	17/8/2022	17:02	50.4	90
Wed	17/8/2022	17:07	48.9	90
Wed	17/8/2022	17:12	50.5	90

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Wed	17/8/2022	11:54	67.6	90
Wed	17/8/2022	11:59	66.2	90
Wed	17/8/2022	12:04	66.5	90
Wed	17/8/2022	12:09	67.2	90
Wed	17/8/2022	12:14	67.1	90
Wed	17/8/2022	12:19	66.9	90
Wed	17/8/2022	12:24	67.1	90
Wed	17/8/2022	12:29	69.4	90
Wed	17/8/2022	12:34	67.4	90
Wed	17/8/2022	12:39	67.3	90
Wed	17/8/2022	12:44	66.9	90
Wed	17/8/2022	12:49	66.5	90
Wed	17/8/2022	12:54	67.3	90
Wed	17/8/2022	12:59	67.7	90
Wed	17/8/2022	13:04	66.6	90
Wed	17/8/2022	13:09	66.5	90
Wed	17/8/2022	13:14	67.7	90
Wed	17/8/2022	13:19	66.9	90
Wed	17/8/2022	13:24	68.3	90
Wed	17/8/2022	13:29	67.4	90
Wed	17/8/2022	13:34	67	90
Wed	17/8/2022	13:39	65.7	90
Wed	17/8/2022	13:44	66.5	90
Wed	17/8/2022	13:49	66.4	90
Wed	17/8/2022	13:54	66.3	90
Wed	17/8/2022	13:59	67.2	90
Wed	17/8/2022	14:04	67.2	90
Wed	17/8/2022	14:09	67.3	90
Wed	17/8/2022	14:14	67.8	90
Wed	17/8/2022	14:19	67.4	90
Wed	17/8/2022	14:24	67.1	90
Wed	17/8/2022	14:29	67.5	90
Wed	17/8/2022	14:34	67.2	90
Wed	17/8/2022	14:39	67.2	90
Wed	17/8/2022	14:44	67.7	90
Wed	17/8/2022	14:49	68.3	90
Wed	17/8/2022	14:54	67.2	90
Wed	17/8/2022	14:59	69	90
Wed	17/8/2022	15:04	69.9	90
Wed	17/8/2022	15:09	68.6	90
Wed	17/8/2022	15:14	68	90
Wed	17/8/2022	15:19	68.3	90
Wed	17/8/2022	15:24	68.6	90
Wed	17/8/2022	15:29	69.2	90

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Wed	17/8/2022	17:17	51.1	90
Wed	17/8/2022	17:22	48.9	90
Wed	17/8/2022	17:27	48.9	90
Wed	17/8/2022	17:32	49.6	90
Wed	17/8/2022	17:37	49.3	90
Wed	17/8/2022	17:42	49.6	90
Wed	17/8/2022	17:47	49.5	90
Wed	17/8/2022	17:52	50.3	90
Wed	17/8/2022	17:57	53.2	90
Wed	17/8/2022	18:02	49.4	90
Wed	17/8/2022	18:07	47.7	90
Wed	17/8/2022	18:12	49.2	90
Wed	17/8/2022	18:17	49.8	90
Wed	17/8/2022	18:22	49.6	90
Wed	17/8/2022	18:27	47	90
Wed	17/8/2022	18:32	47.6	90
Wed	17/8/2022	18:37	47.4	90
Wed	17/8/2022	18:42	47.2	90
Wed	17/8/2022	18:47	48.5	90
Wed	17/8/2022	18:52	48.6	90
Wed	17/8/2022	18:57	48	90
Wed	17/8/2022	19:02	48	70
Wed	17/8/2022	19:07	48.7	70
Wed	17/8/2022	19:12	48.9	70
Wed	17/8/2022	19:17	49.3	70
Wed	17/8/2022	19:22	49.2	70
Wed	17/8/2022	19:27	48.7	70
Wed	17/8/2022	19:32	51.1	70
Wed	17/8/2022	19:37	49.9	70
Wed	17/8/2022	19:42	50.2	70
Wed	17/8/2022	19:47	50	70
Wed	17/8/2022	19:52	49.2	70
Wed	17/8/2022	19:57	48.8	70
Wed	17/8/2022	20:02	48.9	70
Wed	17/8/2022	20:07	48	70
Wed	17/8/2022	20:12	46.7	70
Wed	17/8/2022	20:17	48.7	70
Wed	17/8/2022	20:22	48.8	70
Wed	17/8/2022	20:27	48.4	70
Wed	17/8/2022	20:32	50.8	70
Wed	17/8/2022	20:37	48.9	70
Wed	17/8/2022	20:42	48.9	70
Wed	17/8/2022	20:47	49.3	70
Wed	17/8/2022	20:52	49.2	70

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Wed	17/8/2022	15:34	68.7	90
Wed	17/8/2022	15:39	69.4	90
Wed	17/8/2022	15:44	68.5	90
Wed	17/8/2022	15:49	68.5	90
Wed	17/8/2022	15:54	69.6	90
Wed	17/8/2022	15:59	69.2	90
Wed	17/8/2022	16:04	68.2	90
Wed	17/8/2022	16:09	69.1	90
Wed	17/8/2022	16:14	70.8	90
Wed	17/8/2022	16:19	69.3	90
Wed	17/8/2022	16:24	68.9	90
Wed	17/8/2022	16:29	69.6	90
Wed	17/8/2022	16:34	70.5	90
Wed	17/8/2022	16:39	69.2	90
Wed	17/8/2022	16:44	68.4	90
Wed	17/8/2022	16:49	67.9	90
Wed	17/8/2022	16:54	68.7	90
Wed	17/8/2022	16:59	68.9	90
Wed	17/8/2022	17:04	68.4	90
Wed	17/8/2022	17:09	68	90
Wed	17/8/2022	17:14	67	90
Wed	17/8/2022	17:19	67.6	90
Wed	17/8/2022	17:24	67	90
Wed	17/8/2022	17:29	67	90
Wed	17/8/2022	17:34	66.1	90
Wed	17/8/2022	17:39	66.8	90
Wed	17/8/2022	17:44	67	90
Wed	17/8/2022	17:49	66.4	90
Wed	17/8/2022	17:54	66.7	90
Wed	17/8/2022	17:59	66.2	90
Wed	17/8/2022	18:04	67.1	90
Wed	17/8/2022	18:09	68.6	90
Wed	17/8/2022	18:14	66.4	90
Wed	17/8/2022	18:19	65.1	90
Wed	17/8/2022	18:24	65.5	90
Wed	17/8/2022	18:29	65.2	90
Wed	17/8/2022	18:34	65.5	90
Wed	17/8/2022	18:39	65.5	90
Wed	17/8/2022	18:44	66.6	90
Wed	17/8/2022	18:49	65.5	90
Wed	17/8/2022	18:54	64.2	90
Wed	17/8/2022	18:59	66.7	90
Wed	17/8/2022	19:04	66.4	70
Wed	17/8/2022	19:09	68.2	70

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Wed	17/8/2022	20:57	50.1	70
Wed	17/8/2022	21:02	49	70
Wed	17/8/2022	21:07	55.5	70
Wed	17/8/2022	21:12	59.2	70
Wed	17/8/2022	21:17	57.3	70
Wed	17/8/2022	21:22	55.6	70
Wed	17/8/2022	21:27	53.6	70
Wed	17/8/2022	21:32	54.5	70
Wed	17/8/2022	21:37	55.3	70
Wed	17/8/2022	21:42	54.3	70
Wed	17/8/2022	21:47	54.8	70
Wed	17/8/2022	21:52	54.7	70
Wed	17/8/2022	21:57	55	70
Wed	17/8/2022	22:02	54.4	55
Wed	17/8/2022	22:07	53.2	55
Wed	17/8/2022	22:12	54.2	55
Wed	17/8/2022	22:17	54.3	55
Wed	17/8/2022	22:22	55.3	55
Wed	17/8/2022	22:27	53.1	55
Wed	17/8/2022	22:32	55.6	55
Wed	17/8/2022	22:37	53.6	55
Wed	17/8/2022	22:42	54.7	55
Wed	17/8/2022	22:47	53.5	55
Wed	17/8/2022	22:52	57.3	55
Wed	17/8/2022	22:57	53.9	55
Wed	17/8/2022	23:02	55.4	55
Wed	17/8/2022	23:07	54	55
Wed	17/8/2022	23:12	56	55
Wed	17/8/2022	23:17	56.4	55
Wed	17/8/2022	23:22	57.6	55
Wed	17/8/2022	23:27	55.8	55
Wed	17/8/2022	23:32	57	55
Wed	17/8/2022	23:37	54.6	55
Wed	17/8/2022	23:42	52.8	55
Wed	17/8/2022	23:47	53.3	55
Wed	17/8/2022	23:52	54.4	55
Wed	17/8/2022	23:57	54.6	55
Thu	18/8/2022	00:02	55.2	55
Thu	18/8/2022	00:07	54.1	55
Thu	18/8/2022	00:12	52.2	55
Thu	18/8/2022	00:17	53.6	55
Thu	18/8/2022	00:22	54.5	55
Thu	18/8/2022	00:27	51.2	55
Thu	18/8/2022	00:32	52.1	55

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Wed	17/8/2022	19:14	65.4	70
Wed	17/8/2022	19:19	67.1	70
Wed	17/8/2022	19:24	65	70
Wed	17/8/2022	19:29	66.1	70
Wed	17/8/2022	19:34	65	70
Wed	17/8/2022	19:39	65.2	70
Wed	17/8/2022	19:44	64.3	70
Wed	17/8/2022	19:49	65.2	70
Wed	17/8/2022	19:54	64.9	70
Wed	17/8/2022	19:59	64.6	70
Wed	17/8/2022	20:04	64.9	70
Wed	17/8/2022	20:09	63.7	70
Wed	17/8/2022	20:14	66	70
Wed	17/8/2022	20:19	65	70
Wed	17/8/2022	20:24	64.3	70
Wed	17/8/2022	20:29	64.9	70
Wed	17/8/2022	20:34	64.8	70
Wed	17/8/2022	20:39	63	70
Wed	17/8/2022	20:44	63.3	70
Wed	17/8/2022	20:49	63.4	70
Wed	17/8/2022	20:54	65.7	70
Wed	17/8/2022	20:59	63.3	70
Wed	17/8/2022	21:04	63.2	70
Wed	17/8/2022	21:09	67.7	70
Wed	17/8/2022	21:14	63.8	70
Wed	17/8/2022	21:19	61.3	70
Wed	17/8/2022	21:24	62.8	70
Wed	17/8/2022	21:29	66.2	70
Wed	17/8/2022	21:34	63.9	70
Wed	17/8/2022	21:39	64.4	70
Wed	17/8/2022	21:44	62	70
Wed	17/8/2022	21:49	64.7	70
Wed	17/8/2022	21:54	63.4	70
Wed	17/8/2022	21:59	61.1	70
Wed	17/8/2022	22:04	62.2	70
Wed	17/8/2022	22:09	60.4	70
Wed	17/8/2022	22:14	60.7	70
Wed	17/8/2022	22:19	62.5	70
Wed	17/8/2022	22:24	60.4	70
Wed	17/8/2022	22:29	59.7	70
Wed	17/8/2022	22:34	60.1	70
Wed	17/8/2022	22:39	58.9	70
Wed	17/8/2022	22:44	62.3	70
Wed	17/8/2022	22:49	61.2	70

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Thu	18/8/2022	00:37	52.6	55
Thu	18/8/2022	00:42	52	55
Thu	18/8/2022	00:47	53.1	55
Thu	18/8/2022	00:52	53.9	55
Thu	18/8/2022	00:57	51.9	55
Thu	18/8/2022	01:02	53.1	55
Thu	18/8/2022	01:07	53.5	55
Thu	18/8/2022	01:12	49.8	55
Thu	18/8/2022	01:17	49.6	55
Thu	18/8/2022	01:22	50.7	55
Thu	18/8/2022	01:27	50.5	55
Thu	18/8/2022	01:32	50.3	55
Thu	18/8/2022	01:37	50.5	55
Thu	18/8/2022	01:42	50.9	55
Thu	18/8/2022	01:47	50.9	55
Thu	18/8/2022	01:52	51.8	55
Thu	18/8/2022	01:57	51.9	55
Thu	18/8/2022	02:02	52.6	55
Thu	18/8/2022	02:07	54.1	55
Thu	18/8/2022	02:12	54.1	55
Thu	18/8/2022	02:17	53.5	55
Thu	18/8/2022	02:22	54.4	55
Thu	18/8/2022	02:27	53.8	55
Thu	18/8/2022	02:32	53.4	55
Thu	18/8/2022	02:37	53.7	55
Thu	18/8/2022	02:42	52.5	55
Thu	18/8/2022	02:47	51.8	55
Thu	18/8/2022	02:52	51.6	55
Thu	18/8/2022	02:57	54.4	55
Thu	18/8/2022	03:02	54.5	55
Thu	18/8/2022	03:07	53.1	55
Thu	18/8/2022	03:12	52.2	55
Thu	18/8/2022	03:17	52.5	55
Thu	18/8/2022	03:22	51.5	55
Thu	18/8/2022	03:27	52.4	55
Thu	18/8/2022	03:32	54	55
Thu	18/8/2022	03:37	54.8	55
Thu	18/8/2022	03:42	52.7	55
Thu	18/8/2022	03:47	54	55
Thu	18/8/2022	03:52	53.6	55
Thu	18/8/2022	03:57	52.9	55
Thu	18/8/2022	04:02	53.4	55
Thu	18/8/2022	04:07	56.3	55
Thu	18/8/2022	04:12	53.4	55

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Wed	17/8/2022	22:54	59.9	70
Wed	17/8/2022	22:59	62.9	70
Wed	17/8/2022	23:04	59.4	70
Wed	17/8/2022	23:09	58.4	70
Wed	17/8/2022	23:14	61.8	70
Wed	17/8/2022	23:19	60	70
Wed	17/8/2022	23:24	59.2	70
Wed	17/8/2022	23:29	56.8	70
Wed	17/8/2022	23:34	61.9	70
Wed	17/8/2022	23:39	59.8	70
Wed	17/8/2022	23:44	59.9	70
Wed	17/8/2022	23:49	59	70
Wed	17/8/2022	23:54	59.8	70
Wed	17/8/2022	23:59	54.9	70
Thu	18/8/2022	00:04	57.2	70
Thu	18/8/2022	00:09	58.9	70
Thu	18/8/2022	00:14	57.2	70
Thu	18/8/2022	00:19	57.6	70
Thu	18/8/2022	00:24	57.5	70
Thu	18/8/2022	00:29	60	70
Thu	18/8/2022	00:34	57.9	70
Thu	18/8/2022	00:39	57	70
Thu	18/8/2022	00:44	57.3	70
Thu	18/8/2022	00:49	61.1	70
Thu	18/8/2022	00:54	59.9	70
Thu	18/8/2022	00:59	57.7	70
Thu	18/8/2022	01:04	56.2	70
Thu	18/8/2022	01:09	61	70
Thu	18/8/2022	01:14	53.6	70
Thu	18/8/2022	01:19	57.6	70
Thu	18/8/2022	01:24	60.8	70
Thu	18/8/2022	01:29	60.2	70
Thu	18/8/2022	01:34	57.9	70
Thu	18/8/2022	01:39	54.3	70
Thu	18/8/2022	01:44	57.9	70
Thu	18/8/2022	01:49	56.7	70
Thu	18/8/2022	01:54	57	70
Thu	18/8/2022	01:59	57.6	70
Thu	18/8/2022	02:04	57.5	70
Thu	18/8/2022	02:09	58.6	70
Thu	18/8/2022	02:14	56.2	70
Thu	18/8/2022	02:19	61.4	70
Thu	18/8/2022	02:24	58.7	70
Thu	18/8/2022	02:29	59.5	70

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Thu	18/8/2022	04:17	50.6	55
Thu	18/8/2022	04:22	51.2	55
Thu	18/8/2022	04:27	53.5	55
Thu	18/8/2022	04:32	56.2	55
Thu	18/8/2022	04:37	54.7	55
Thu	18/8/2022	04:42	56.4	55
Thu	18/8/2022	04:47	56.8	55
Thu	18/8/2022	04:52	56.8	55
Thu	18/8/2022	04:57	55.2	55
Thu	18/8/2022	05:02	57.5	55
Thu	18/8/2022	05:07	54.8	55
Thu	18/8/2022	05:12	53.5	55
Thu	18/8/2022	05:17	56.3	55
Thu	18/8/2022	05:22	53.6	55
Thu	18/8/2022	05:27	51.9	55
Thu	18/8/2022	05:32	54.8	55
Thu	18/8/2022	05:37	53.6	55
Thu	18/8/2022	05:42	50.8	55
Thu	18/8/2022	05:47	53.7	55
Thu	18/8/2022	05:52	52	55
Thu	18/8/2022	05:57	50.3	55
Thu	18/8/2022	06:02	61.2	55
Thu	18/8/2022	06:07	58.4	55
Thu	18/8/2022	06:12	58.2	55
Thu	18/8/2022	06:17	55.5	55
Thu	18/8/2022	06:22	96.6	55
Thu	18/8/2022	06:27	53.8	55
Thu	18/8/2022	06:32	53.7	55
Thu	18/8/2022	06:37	54.7	55
Thu	18/8/2022	06:42	54.7	55
Thu	18/8/2022	06:47	54.5	55
Thu	18/8/2022	06:52	53.4	55
Thu	18/8/2022	06:57	53.3	55
Thu	18/8/2022	07:02	53.6	90
Thu	18/8/2022	07:07	52.6	90
Thu	18/8/2022	07:12	53.2	90
Thu	18/8/2022	07:17	52.6	90
Thu	18/8/2022	07:22	52.7	90
Thu	18/8/2022	07:27	52.6	90
Thu	18/8/2022	07:32	52.7	90
Thu	18/8/2022	07:37	52.6	90
Thu	18/8/2022	07:42	54.3	90
Thu	18/8/2022	07:47	52	90
Thu	18/8/2022	07:52	51.5	90

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Thu	18/8/2022	02:34	56.7	70
Thu	18/8/2022	02:39	57.9	70
Thu	18/8/2022	02:44	56.7	70
Thu	18/8/2022	02:49	60.6	70
Thu	18/8/2022	02:54	59.7	70
Thu	18/8/2022	02:59	59.2	70
Thu	18/8/2022	03:04	59.2	70
Thu	18/8/2022	03:09	58.4	70
Thu	18/8/2022	03:14	57.7	70
Thu	18/8/2022	03:19	61.4	70
Thu	18/8/2022	03:24	58	70
Thu	18/8/2022	03:29	59	70
Thu	18/8/2022	03:34	61.8	70
Thu	18/8/2022	03:39	62.4	70
Thu	18/8/2022	03:44	64	70
Thu	18/8/2022	03:49	64.1	70
Thu	18/8/2022	03:54	64.4	70
Thu	18/8/2022	03:59	64.4	70
Thu	18/8/2022	04:04	62.7	70
Thu	18/8/2022	04:09	63.4	70
Thu	18/8/2022	04:14	64.2	70
Thu	18/8/2022	04:19	64.5	70
Thu	18/8/2022	04:24	65.2	70
Thu	18/8/2022	04:29	66.4	70
Thu	18/8/2022	04:34	64.8	70
Thu	18/8/2022	04:39	65.9	70
Thu	18/8/2022	04:44	67.5	70
Thu	18/8/2022	04:49	67.6	70
Thu	18/8/2022	04:54	68.7	70
Thu	18/8/2022	04:59	67.2	70
Thu	18/8/2022	05:04	69.3	70
Thu	18/8/2022	05:09	68.3	70
Thu	18/8/2022	05:14	69.1	70
Thu	18/8/2022	05:19	69.9	70
Thu	18/8/2022	05:24	67.5	70
Thu	18/8/2022	05:29	68.5	70
Thu	18/8/2022	05:34	68.9	70
Thu	18/8/2022	05:39	69.3	70
Thu	18/8/2022	05:44	69	70
Thu	18/8/2022	05:49	69.4	70
Thu	18/8/2022	05:54	68.9	70
Thu	18/8/2022	05:59	71.8	70
Thu	18/8/2022	06:04	70	70
Thu	18/8/2022	06:09	69.9	70

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Thu	18/8/2022	07:57	52.8	90
Thu	18/8/2022	08:02	51.1	90
Thu	18/8/2022	08:07	50.8	90
Thu	18/8/2022	08:12	53.9	90
Thu	18/8/2022	08:17	52.7	90
Thu	18/8/2022	08:22	52.6	90
Thu	18/8/2022	08:27	52.5	90
Thu	18/8/2022	08:32	56.4	90
Thu	18/8/2022	08:37	54.6	90
Thu	18/8/2022	08:42	50.1	90
Thu	18/8/2022	08:47	51.4	90
Thu	18/8/2022	08:52	51.2	90
Thu	18/8/2022	08:57	50.7	90
Thu	18/8/2022	09:02	53.3	90
Thu	18/8/2022	09:07	51.8	90
Thu	18/8/2022	09:12	52.5	90
Thu	18/8/2022	09:17	53	90
Thu	18/8/2022	09:22	54.6	90
Thu	18/8/2022	09:27	54.1	90
Thu	18/8/2022	09:32	57	90
Thu	18/8/2022	09:37	56.7	90
Thu	18/8/2022	09:42	53.9	90
Thu	18/8/2022	09:47	54.7	90
Thu	18/8/2022	09:52	54.7	90
Thu	18/8/2022	09:57	54.5	90
Thu	18/8/2022	10:02	56.8	90
Thu	18/8/2022	10:07	54.3	90
Thu	18/8/2022	10:12	52.8	90
Thu	18/8/2022	10:17	54.3	90
Thu	18/8/2022	10:22	61.1	90
Thu	18/8/2022	10:27	54.4	90
Thu	18/8/2022	10:32	54.9	90
Thu	18/8/2022	10:37	54.2	90
Thu	18/8/2022	10:42	57.3	90
Thu	18/8/2022	10:47	54.2	90
Thu	18/8/2022	10:52	53.4	90
Thu	18/8/2022	10:57	53.8	90
Thu	18/8/2022	11:02	57.4	90
Thu	18/8/2022	11:07	59.1	90
Thu	18/8/2022	11:12	53.6	90
Thu	18/8/2022	11:17	54.4	90
Thu	18/8/2022	11:22	54.4	90
Thu	18/8/2022	11:27	55.6	90
Thu	18/8/2022	11:32	54.9	90

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Thu	18/8/2022	06:14	66.4	70
Thu	18/8/2022	06:19	66.9	70
Thu	18/8/2022	06:24	70.3	70
Thu	18/8/2022	06:29	69.4	70
Thu	18/8/2022	06:34	68.7	70
Thu	18/8/2022	06:39	69.7	70
Thu	18/8/2022	06:44	69	70
Thu	18/8/2022	06:49	68.8	70
Thu	18/8/2022	06:54	69.1	70
Thu	18/8/2022	06:59	69.5	70
Thu	18/8/2022	07:04	71.7	90
Thu	18/8/2022	07:09	72.2	90
Thu	18/8/2022	07:14	75.3	90
Thu	18/8/2022	07:19	75	90
Thu	18/8/2022	07:24	75.8	90
Thu	18/8/2022	07:29	77.3	90
Thu	18/8/2022	07:34	76.9	90
Thu	18/8/2022	07:39	75.7	90
Thu	18/8/2022	07:44	75.1	90
Thu	18/8/2022	07:49	73.1	90
Thu	18/8/2022	07:54	72.5	90
Thu	18/8/2022	07:59	70.8	90
Thu	18/8/2022	08:04	70.4	90
Thu	18/8/2022	08:09	70	90
Thu	18/8/2022	08:14	70.2	90
Thu	18/8/2022	08:19	69.5	90
Thu	18/8/2022	08:24	69.1	90
Thu	18/8/2022	08:29	68	90
Thu	18/8/2022	08:34	69.1	90
Thu	18/8/2022	08:39	68	90
Thu	18/8/2022	08:44	68.2	90
Thu	18/8/2022	08:49	68.7	90
Thu	18/8/2022	08:54	68.6	90
Thu	18/8/2022	08:59	68.4	90
Thu	18/8/2022	09:04	67.6	90
Thu	18/8/2022	09:09	67.9	90
Thu	18/8/2022	09:14	69.6	90
Thu	18/8/2022	09:19	70.9	90
Thu	18/8/2022	09:24	70.9	90
Thu	18/8/2022	09:29	71.5	90
Thu	18/8/2022	09:34	70.6	90
Thu	18/8/2022	09:39	70.1	90
Thu	18/8/2022	09:44	70.5	90
Thu	18/8/2022	09:49	71.1	90

Noise data from Station N1

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Thu	18/8/2022	11:37	53.6	90
Thu	18/8/2022	11:42	56.5	90
Thu	18/8/2022	11:47	64	90
Thu	18/8/2022	11:52	71	90
Thu	18/8/2022	11:57	54.1	90
Thu	18/8/2022	12:02	53.5	90
Thu	18/8/2022	12:07	54.4	90
Thu	18/8/2022	12:12	53.8	90
Thu	18/8/2022	12:17	53.4	90
Thu	18/8/2022	12:22	53.7	90
Thu	18/8/2022	12:27	52.5	90
Thu	18/8/2022	12:32	55.6	90
Thu	18/8/2022	12:37	54.9	90
Thu	18/8/2022	12:42	53.6	90

Noise data from Station N2

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Thu	18/8/2022	09:54	69.9	90
Thu	18/8/2022	09:59	71.5	90
Thu	18/8/2022	10:04	71.1	90
Thu	18/8/2022	10:09	68.9	90
Thu	18/8/2022	10:14	70.7	90
Thu	18/8/2022	10:19	69.4	90
Thu	18/8/2022	10:24	70.8	90
Thu	18/8/2022	10:29	69.9	90
Thu	18/8/2022	10:34	69.5	90
Thu	18/8/2022	10:39	66.7	90
Thu	18/8/2022	10:44	68.4	90
Thu	18/8/2022	10:49	69.9	90
Thu	18/8/2022	10:54	68.6	90
Thu	18/8/2022	10:59	68.9	90
Thu	18/8/2022	11:04	68.8	90
Thu	18/8/2022	11:09	68.4	90
Thu	18/8/2022	11:14	68.7	90
Thu	18/8/2022	11:19	67.8	90
Thu	18/8/2022	11:24	66.8	90
Thu	18/8/2022	11:29	66.6	90
Thu	18/8/2022	11:34	66.7	90
Thu	18/8/2022	11:39	67.3	90
Thu	18/8/2022	11:44	68.5	90
Thu	18/8/2022	11:49	69.6	90
Thu	18/8/2022	11:54	67.7	90
Thu	18/8/2022	11:59	68.2	90
Thu	18/8/2022	12:04	67.8	90
Thu	18/8/2022	12:09	67.6	90
Thu	18/8/2022	12:14	66.8	90
Thu	18/8/2022	12:19	67.1	90
Thu	18/8/2022	12:24	67.2	90
Thu	18/8/2022	12:29	66.2	90
Thu	18/8/2022	12:34	68	90
Thu	18/8/2022	12:39	68	90
Thu	18/8/2022	12:44	67	90
Thu	18/8/2022	12:49	68.3	90
Thu	18/8/2022	12:54	68	90
Thu	18/8/2022	12:59	66.8	90
Thu	18/8/2022	13:04	67.4	90
Thu	18/8/2022	13:09	67.8	90
Thu	18/8/2022	13:14	65.4	90
Thu	18/8/2022	13:19	67.7	90
Thu	18/8/2022	13:24	68.1	90

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Thu	11/8/2022	13:45	49.3	90
Thu	11/8/2022	13:50	64.4	90
Thu	11/8/2022	13:55	46.6	90
Thu	11/8/2022	14:00	56.6	90
Thu	11/8/2022	14:05	47.6	90
Thu	11/8/2022	14:10	45.6	90
Thu	11/8/2022	14:15	45.4	90
Thu	11/8/2022	14:20	46	90
Thu	11/8/2022	14:25	48.2	90
Thu	11/8/2022	14:30	46.3	90
Thu	11/8/2022	14:35	60.5	90
Thu	11/8/2022	14:40	53.1	90
Thu	11/8/2022	14:45	50.6	90
Thu	11/8/2022	14:50	55.2	90
Thu	11/8/2022	14:55	58.6	90
Thu	11/8/2022	15:00	48	90
Thu	11/8/2022	15:05	57.9	90
Thu	11/8/2022	15:10	48.9	90
Thu	11/8/2022	15:15	49.3	90
Thu	11/8/2022	15:20	45.9	90
Thu	11/8/2022	15:25	45.6	90
Thu	11/8/2022	15:30	44.5	90
Thu	11/8/2022	15:35	51.9	90
Thu	11/8/2022	15:40	50.7	90
Thu	11/8/2022	15:45	52.5	90
Thu	11/8/2022	15:50	49	90
Thu	11/8/2022	15:55	61.1	90
Thu	11/8/2022	16:00	47.1	90
Thu	11/8/2022	16:05	56.5	90
Thu	11/8/2022	16:10	67.4	90
Thu	11/8/2022	16:15	47.3	90
Thu	11/8/2022	16:20	44.4	90
Thu	11/8/2022	16:25	44.1	90
Thu	11/8/2022	16:30	48.2	90
Thu	11/8/2022	16:35	82	90
Thu	11/8/2022	16:40	45.9	90
Thu	11/8/2022	16:45	51.6	90
Thu	11/8/2022	16:50	55.1	90
Thu	11/8/2022	16:55	50	90
Thu	11/8/2022	17:00	51	90
Thu	11/8/2022	17:05	56.6	90
Thu	11/8/2022	17:10	45.7	90
Thu	11/8/2022	17:15	52.7	90
Thu	11/8/2022	17:20	48.9	90

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Mon	8/8/2022	13:45	64.6	90
Mon	8/8/2022	13:50	58.9	90
Mon	8/8/2022	13:55	58.7	90
Mon	8/8/2022	14:00	65.5	90
Mon	8/8/2022	14:05	68	90
Mon	8/8/2022	14:10	68.8	90
Mon	8/8/2022	14:15	66.2	90
Mon	8/8/2022	14:20	60.9	90
Mon	8/8/2022	14:25	56.9	90
Mon	8/8/2022	14:30	60.7	90
Mon	8/8/2022	14:35	57.5	90
Mon	8/8/2022	14:40	57.2	90
Mon	8/8/2022	14:45	54.3	90
Mon	8/8/2022	14:50	53.7	90
Mon	8/8/2022	14:55	52.3	90
Mon	8/8/2022	15:00	64.7	90
Mon	8/8/2022	15:05	55.5	90
Mon	8/8/2022	15:10	48.8	90
Mon	8/8/2022	15:15	48.3	90
Mon	8/8/2022	15:20	49.3	90
Mon	8/8/2022	15:25	51.4	90
Mon	8/8/2022	15:30	62.4	90
Mon	8/8/2022	15:35	69.5	90
Mon	8/8/2022	15:40	48.2	90
Mon	8/8/2022	15:45	50.7	90
Mon	8/8/2022	15:50	52	90
Mon	8/8/2022	15:55	52.7	90
Mon	8/8/2022	16:00	50.6	90
Mon	8/8/2022	16:05	59.5	90
Mon	8/8/2022	16:10	64.2	90
Mon	8/8/2022	16:15	56.3	90
Mon	8/8/2022	16:20	52	90
Mon	8/8/2022	16:25	50.7	90
Mon	8/8/2022	16:30	49.5	90
Mon	8/8/2022	16:35	56.5	90
Mon	8/8/2022	16:40	50.4	90
Mon	8/8/2022	16:45	49	90
Mon	8/8/2022	16:50	61.9	90
Mon	8/8/2022	16:55	56.8	90
Mon	8/8/2022	17:00	58.4	90
Mon	8/8/2022	17:05	49.1	90
Mon	8/8/2022	17:10	59.2	90
Mon	8/8/2022	17:15	65.9	90
Mon	8/8/2022	17:20	65.6	90

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Thu	11/8/2022	17:25	46.2	90
Thu	11/8/2022	17:30	47.4	90
Thu	11/8/2022	17:35	48.9	90
Thu	11/8/2022	17:40	44.7	90
Thu	11/8/2022	17:45	62.4	90
Thu	11/8/2022	17:50	64.1	90
Thu	11/8/2022	17:55	45	90
Thu	11/8/2022	18:00	44.8	90
Thu	11/8/2022	18:05	48.8	90
Thu	11/8/2022	18:10	51.5	90
Thu	11/8/2022	18:15	45.5	90
Thu	11/8/2022	18:20	47.8	90
Thu	11/8/2022	18:25	46.4	90
Thu	11/8/2022	18:30	45.2	90
Thu	11/8/2022	18:35	49.9	90
Thu	11/8/2022	18:40	48	90
Thu	11/8/2022	18:45	48.1	90
Thu	11/8/2022	18:50	47.3	90
Thu	11/8/2022	18:55	53.9	90
Thu	11/8/2022	19:00	49.8	70
Thu	11/8/2022	19:05	47.6	70
Thu	11/8/2022	19:10	45.9	70
Thu	11/8/2022	19:15	53.1	70
Thu	11/8/2022	19:20	49	70
Thu	11/8/2022	19:25	46	70
Thu	11/8/2022	19:30	48.3	70
Thu	11/8/2022	19:35	45.1	70
Thu	11/8/2022	19:40	47.6	70
Thu	11/8/2022	19:45	46.3	70
Thu	11/8/2022	19:50	46	70
Thu	11/8/2022	19:55	48.2	70
Thu	11/8/2022	20:00	46.1	70
Thu	11/8/2022	20:05	44.9	70
Thu	11/8/2022	20:10	47.2	70
Thu	11/8/2022	20:15	48.6	70
Thu	11/8/2022	20:20	45	70
Thu	11/8/2022	20:25	45.1	70
Thu	11/8/2022	20:30	49.7	70
Thu	11/8/2022	20:35	48.5	70
Thu	11/8/2022	20:40	47.2	70
Thu	11/8/2022	20:45	46.5	70
Thu	11/8/2022	20:50	49.1	70
Thu	11/8/2022	20:55	48.3	70
Thu	11/8/2022	21:00	49.4	70

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Mon	8/8/2022	17:25	66.2	90
Mon	8/8/2022	17:30	63.5	90
Mon	8/8/2022	17:35	49	90
Mon	8/8/2022	17:40	49.5	90
Mon	8/8/2022	17:45	52.1	90
Mon	8/8/2022	17:50	57.3	90
Mon	8/8/2022	17:55	60.9	90
Mon	8/8/2022	18:00	61	90
Mon	8/8/2022	18:05	53.7	90
Mon	8/8/2022	18:10	53.1	90
Mon	8/8/2022	18:15	55.6	90
Mon	8/8/2022	18:20	59.3	90
Mon	8/8/2022	18:25	61.4	90
Mon	8/8/2022	18:30	61.1	90
Mon	8/8/2022	18:35	49.8	90
Mon	8/8/2022	18:40	51.7	90
Mon	8/8/2022	18:45	53.9	90
Mon	8/8/2022	18:50	55.3	90
Mon	8/8/2022	18:55	61.4	90
Mon	8/8/2022	19:00	56.7	90
Mon	8/8/2022	19:05	54.1	70
Mon	8/8/2022	19:10	52.8	70
Mon	8/8/2022	19:15	47.4	70
Mon	8/8/2022	19:20	47.6	70
Mon	8/8/2022	19:25	49.1	70
Mon	8/8/2022	19:30	50.6	70
Mon	8/8/2022	19:35	47.8	70
Mon	8/8/2022	19:40	58	70
Mon	8/8/2022	19:45	48.7	70
Mon	8/8/2022	19:50	47.8	70
Mon	8/8/2022	19:55	58.5	70
Mon	8/8/2022	20:00	52.6	70
Mon	8/8/2022	20:05	52.5	70
Mon	8/8/2022	20:10	50.6	70
Mon	8/8/2022	20:15	55.6	70
Mon	8/8/2022	20:20	49.9	70
Mon	8/8/2022	20:25	47.3	70
Mon	8/8/2022	20:30	48.7	70
Mon	8/8/2022	20:35	47.1	70
Mon	8/8/2022	20:40	55.6	70
Mon	8/8/2022	20:45	49	70
Mon	8/8/2022	20:50	47	70
Mon	8/8/2022	20:55	48.1	70
Mon	8/8/2022	21:00	48.2	70

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Thu	11/8/2022	21:05	47.6	70
Thu	11/8/2022	21:10	55.8	70
Thu	11/8/2022	21:15	48.4	70
Thu	11/8/2022	21:20	46.5	70
Thu	11/8/2022	21:25	48.2	70
Thu	11/8/2022	21:30	47.7	70
Thu	11/8/2022	21:35	47.5	70
Thu	11/8/2022	21:40	46	70
Thu	11/8/2022	21:45	46	70
Thu	11/8/2022	21:50	50	70
Thu	11/8/2022	21:55	47.5	70
Thu	11/8/2022	22:00	47.6	70
Thu	11/8/2022	22:05	48.9	70
Thu	11/8/2022	22:10	50.9	70
Thu	11/8/2022	22:15	46.7	70
Thu	11/8/2022	22:20	49.4	70
Thu	11/8/2022	22:25	47.9	70
Thu	11/8/2022	22:30	48.4	70
Thu	11/8/2022	22:35	46.4	70
Thu	11/8/2022	22:40	49.7	70
Thu	11/8/2022	22:45	49	70
Thu	11/8/2022	22:50	47.6	70
Thu	11/8/2022	22:55	52.2	70
Thu	11/8/2022	23:00	47.4	70
Thu	11/8/2022	23:05	47	70
Thu	11/8/2022	23:10	49	70
Thu	11/8/2022	23:15	46.3	70
Thu	11/8/2022	23:20	48.5	70
Thu	11/8/2022	23:25	52.2	70
Thu	11/8/2022	23:30	46.4	70
Thu	11/8/2022	23:35	45.8	70
Thu	11/8/2022	23:40	45.8	70
Thu	11/8/2022	23:45	54.6	70
Thu	11/8/2022	23:50	48	70
Thu	11/8/2022	23:55	46	70
Fri	12/8/2022	00:00	46.8	70
Fri	12/8/2022	00:05	46.5	70
Fri	12/8/2022	00:10	46	70
Fri	12/8/2022	00:15	46	70
Fri	12/8/2022	00:20	48.5	70
Fri	12/8/2022	00:25	46.8	70
Fri	12/8/2022	00:30	45.9	70
Fri	12/8/2022	00:35	45.2	70
Fri	12/8/2022	00:40	50	70

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Mon	8/8/2022	21:05	47	70
Mon	8/8/2022	21:10	47.6	70
Mon	8/8/2022	21:15	52	70
Mon	8/8/2022	21:20	46.2	70
Mon	8/8/2022	21:25	50	70
Mon	8/8/2022	21:30	46.7	70
Mon	8/8/2022	21:35	62.6	70
Mon	8/8/2022	21:40	49.4	70
Mon	8/8/2022	21:45	46.4	70
Mon	8/8/2022	21:50	46.6	70
Mon	8/8/2022	21:55	52.2	70
Mon	8/8/2022	22:00	49.5	70
Mon	8/8/2022	22:05	47.4	55
Mon	8/8/2022	22:10	47.2	55
Mon	8/8/2022	22:15	54.2	55
Mon	8/8/2022	22:20	50.1	55
Mon	8/8/2022	22:25	46.8	55
Mon	8/8/2022	22:30	46.5	55
Mon	8/8/2022	22:35	47.1	55
Mon	8/8/2022	22:40	46.2	55
Mon	8/8/2022	22:45	46	55
Mon	8/8/2022	22:50	47	55
Mon	8/8/2022	22:55	51.9	55
Mon	8/8/2022	23:00	45.8	55
Mon	8/8/2022	23:05	46.9	55
Mon	8/8/2022	23:10	46.6	55
Mon	8/8/2022	23:15	46.7	55
Mon	8/8/2022	23:20	46.4	55
Mon	8/8/2022	23:25	46.1	55
Mon	8/8/2022	23:30	47	55
Mon	8/8/2022	23:35	47.4	55
Mon	8/8/2022	23:40	46.5	55
Mon	8/8/2022	23:45	46	55
Mon	8/8/2022	23:50	46	55
Mon	8/8/2022	23:55	46.8	55
Tue	9/8/2022	00:00	46.4	55
Tue	9/8/2022	00:05	46.4	55
Tue	9/8/2022	00:10	46.5	55
Tue	9/8/2022	00:15	52.5	55
Tue	9/8/2022	00:20	45.8	55
Tue	9/8/2022	00:25	46.5	55
Tue	9/8/2022	00:30	46.2	55
Tue	9/8/2022	00:35	45.7	55
Tue	9/8/2022	00:40	46	55

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Fri	12/8/2022	00:45	45.3	70
Fri	12/8/2022	00:50	44.5	70
Fri	12/8/2022	00:55	45.3	70
Fri	12/8/2022	01:00	52.1	70
Fri	12/8/2022	01:05	44.6	70
Fri	12/8/2022	01:10	44.5	70
Fri	12/8/2022	01:15	45.2	70
Fri	12/8/2022	01:20	45.3	70
Fri	12/8/2022	01:25	44.6	70
Fri	12/8/2022	01:30	45.8	70
Fri	12/8/2022	01:35	45.8	70
Fri	12/8/2022	01:40	45.1	70
Fri	12/8/2022	01:45	45	70
Fri	12/8/2022	01:50	47.3	70
Fri	12/8/2022	01:55	48.5	70
Fri	12/8/2022	02:00	48.1	70
Fri	12/8/2022	02:05	44.2	70
Fri	12/8/2022	02:10	43.7	70
Fri	12/8/2022	02:15	44.5	70
Fri	12/8/2022	02:20	48.8	70
Fri	12/8/2022	02:25	47.7	70
Fri	12/8/2022	02:30	46.2	70
Fri	12/8/2022	02:35	48.9	70
Fri	12/8/2022	02:40	44.6	70
Fri	12/8/2022	02:45	48.2	70
Fri	12/8/2022	02:50	44.6	70
Fri	12/8/2022	02:55	51	70
Fri	12/8/2022	03:00	51.3	70
Fri	12/8/2022	03:05	44.6	70
Fri	12/8/2022	03:10	48	70
Fri	12/8/2022	03:15	47.8	70
Fri	12/8/2022	03:20	45.4	70
Fri	12/8/2022	03:25	44.6	70
Fri	12/8/2022	03:30	43.9	70
Fri	12/8/2022	03:35	45.1	70
Fri	12/8/2022	03:40	43.4	70
Fri	12/8/2022	03:45	46.8	70
Fri	12/8/2022	03:50	47.9	70
Fri	12/8/2022	03:55	45.9	70
Fri	12/8/2022	04:00	47.3	70
Fri	12/8/2022	04:05	47.2	70
Fri	12/8/2022	04:10	46.9	70
Fri	12/8/2022	04:15	47.2	70
Fri	12/8/2022	04:20	46.9	70

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Tue	9/8/2022	00:45	46.5	55
Tue	9/8/2022	00:50	45.8	55
Tue	9/8/2022	00:55	45.9	55
Tue	9/8/2022	01:00	48.6	55
Tue	9/8/2022	01:05	46.8	55
Tue	9/8/2022	01:10	61.2	55
Tue	9/8/2022	01:15	46.3	55
Tue	9/8/2022	01:20	47	55
Tue	9/8/2022	01:25	63.2	55
Tue	9/8/2022	01:30	46.4	55
Tue	9/8/2022	01:35	46.6	55
Tue	9/8/2022	01:40	51.2	55
Tue	9/8/2022	01:45	51.2	55
Tue	9/8/2022	01:50	52.1	55
Tue	9/8/2022	01:55	45.9	55
Tue	9/8/2022	02:00	47.1	55
Tue	9/8/2022	02:05	46.9	55
Tue	9/8/2022	02:10	46.4	55
Tue	9/8/2022	02:15	46.1	55
Tue	9/8/2022	02:20	48.1	55
Tue	9/8/2022	02:25	45.8	55
Tue	9/8/2022	02:30	46.1	55
Tue	9/8/2022	02:35	45.6	55
Tue	9/8/2022	02:40	46.1	55
Tue	9/8/2022	02:45	46.4	55
Tue	9/8/2022	02:50	59.2	55
Tue	9/8/2022	02:55	45.8	55
Tue	9/8/2022	03:00	45.6	55
Tue	9/8/2022	03:05	46.2	55
Tue	9/8/2022	03:10	45.8	55
Tue	9/8/2022	03:15	46.3	55
Tue	9/8/2022	03:20	46.1	55
Tue	9/8/2022	03:25	46.7	55
Tue	9/8/2022	03:30	46.2	55
Tue	9/8/2022	03:35	46.4	55
Tue	9/8/2022	03:40	45.2	55
Tue	9/8/2022	03:45	46.6	55
Tue	9/8/2022	03:50	46.6	55
Tue	9/8/2022	03:55	47.1	55
Tue	9/8/2022	04:00	56.2	55
Tue	9/8/2022	04:05	45.2	55
Tue	9/8/2022	04:10	46.1	55
Tue	9/8/2022	04:15	48.4	55
Tue	9/8/2022	04:20	45.3	55

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Fri	12/8/2022	04:25	46.6	70
Fri	12/8/2022	04:30	47.1	70
Fri	12/8/2022	04:35	44.6	70
Fri	12/8/2022	04:40	47	70
Fri	12/8/2022	04:45	47.4	70
Fri	12/8/2022	04:50	48.1	70
Fri	12/8/2022	04:55	48.6	70
Fri	12/8/2022	05:00	46.7	70
Fri	12/8/2022	05:05	48.6	70
Fri	12/8/2022	05:10	44.7	70
Fri	12/8/2022	05:15	47.2	70
Fri	12/8/2022	05:20	45	70
Fri	12/8/2022	05:25	44.7	70
Fri	12/8/2022	05:30	47.7	70
Fri	12/8/2022	05:35	46.1	70
Fri	12/8/2022	05:40	51.8	70
Fri	12/8/2022	05:45	44.4	70
Fri	12/8/2022	05:50	44.3	70
Fri	12/8/2022	05:55	47	70
Fri	12/8/2022	06:00	43.9	70
Fri	12/8/2022	06:05	50.8	70
Fri	12/8/2022	06:10	44.6	70
Fri	12/8/2022	06:15	44.4	70
Fri	12/8/2022	06:20	44.1	70
Fri	12/8/2022	06:25	44.3	70
Fri	12/8/2022	06:30	44.7	70
Fri	12/8/2022	06:35	45.2	70
Fri	12/8/2022	06:40	44.7	70
Fri	12/8/2022	06:45	44.4	70
Fri	12/8/2022	06:50	49.2	70
Fri	12/8/2022	06:55	46.1	70
Fri	12/8/2022	07:00	45.4	90
Fri	12/8/2022	07:05	45.3	90
Fri	12/8/2022	07:10	45.3	90
Fri	12/8/2022	07:15	47.3	90
Fri	12/8/2022	07:20	45.5	90
Fri	12/8/2022	07:25	46.4	90
Fri	12/8/2022	07:30	46.3	90
Fri	12/8/2022	07:35	46.3	90
Fri	12/8/2022	07:40	46	90
Fri	12/8/2022	07:45	46.8	90
Fri	12/8/2022	07:50	49.7	90
Fri	12/8/2022	07:55	48.8	90
Fri	12/8/2022	08:00	50.4	90

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Tue	9/8/2022	04:25	45.6	55
Tue	9/8/2022	04:30	47.8	55
Tue	9/8/2022	04:35	45.1	55
Tue	9/8/2022	04:40	45.8	55
Tue	9/8/2022	04:45	45.9	55
Tue	9/8/2022	04:50	46.5	55
Tue	9/8/2022	04:55	46.4	55
Tue	9/8/2022	05:00	46.6	55
Tue	9/8/2022	05:05	46.9	55
Tue	9/8/2022	05:10	47.8	55
Tue	9/8/2022	05:15	48.5	55
Tue	9/8/2022	05:20	47.2	55
Tue	9/8/2022	05:25	48.4	55
Tue	9/8/2022	05:30	47.9	55
Tue	9/8/2022	05:35	48	55
Tue	9/8/2022	05:40	49.2	55
Tue	9/8/2022	05:45	56.9	55
Tue	9/8/2022	05:50	49.5	55
Tue	9/8/2022	05:55	50.5	55
Tue	9/8/2022	06:00	57.7	55
Tue	9/8/2022	06:05	49.5	55
Tue	9/8/2022	06:10	50.8	55
Tue	9/8/2022	06:15	50.6	55
Tue	9/8/2022	06:20	49	55
Tue	9/8/2022	06:25	49.3	55
Tue	9/8/2022	06:30	48.2	55
Tue	9/8/2022	06:35	48.5	55
Tue	9/8/2022	06:40	51.1	55
Tue	9/8/2022	06:45	47.6	55
Tue	9/8/2022	06:50	53.6	55
Tue	9/8/2022	06:55	50.2	55
Tue	9/8/2022	07:00	48.6	55
Tue	9/8/2022	07:05	50.4	90
Tue	9/8/2022	07:10	51.8	90
Tue	9/8/2022	07:15	52.7	90
Tue	9/8/2022	07:20	51.7	90
Tue	9/8/2022	07:25	51.1	90
Tue	9/8/2022	07:30	50.5	90
Tue	9/8/2022	07:35	58	90
Tue	9/8/2022	07:40	52.1	90
Tue	9/8/2022	07:45	51.3	90
Tue	9/8/2022	07:50	53.7	90
Tue	9/8/2022	07:55	52.8	90
Tue	9/8/2022	08:00	51	90

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Fri	12/8/2022	08:05	52.9	90
Fri	12/8/2022	08:10	58.1	90
Fri	12/8/2022	08:15	49.7	90
Fri	12/8/2022	08:20	49.4	90
Fri	12/8/2022	08:25	60.4	90
Fri	12/8/2022	08:30	51.6	90
Fri	12/8/2022	08:35	50.5	90
Fri	12/8/2022	08:40	57.7	90
Fri	12/8/2022	08:45	51.3	90
Fri	12/8/2022	08:50	51.9	90
Fri	12/8/2022	08:55	49.6	90
Fri	12/8/2022	09:00	59.6	90
Fri	12/8/2022	09:05	48.1	90
Fri	12/8/2022	09:10	48.9	90
Fri	12/8/2022	09:15	49.4	90
Fri	12/8/2022	09:20	50	90
Fri	12/8/2022	09:25	48.5	90
Fri	12/8/2022	09:30	49.4	90
Fri	12/8/2022	09:35	48.9	90
Fri	12/8/2022	09:40	50.2	90
Fri	12/8/2022	09:45	50.1	90
Fri	12/8/2022	09:50	57.7	90
Fri	12/8/2022	09:55	48.1	90
Fri	12/8/2022	10:00	48.8	90
Fri	12/8/2022	10:05	48.9	90
Fri	12/8/2022	10:10	54.1	90
Fri	12/8/2022	10:15	47.4	90
Fri	12/8/2022	10:20	46	90
Fri	12/8/2022	10:25	46.9	90
Fri	12/8/2022	10:30	47.5	90
Fri	12/8/2022	10:35	46.7	90
Fri	12/8/2022	10:40	46.6	90
Fri	12/8/2022	10:45	47	90
Fri	12/8/2022	10:50	45.1	90
Fri	12/8/2022	10:55	47.2	90
Fri	12/8/2022	11:00	45.1	90
Fri	12/8/2022	11:05	46.2	90
Fri	12/8/2022	11:10	55.4	90
Fri	12/8/2022	11:15	48.2	90
Fri	12/8/2022	11:20	52	90
Fri	12/8/2022	11:25	43.6	90
Fri	12/8/2022	11:30	47.2	90
Fri	12/8/2022	11:35	47.3	90
Fri	12/8/2022	11:40	46.2	90

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Tue	9/8/2022	08:05	51.5	90
Tue	9/8/2022	08:10	51.1	90
Tue	9/8/2022	08:15	48.6	90
Tue	9/8/2022	08:20	51.5	90
Tue	9/8/2022	08:25	66	90
Tue	9/8/2022	08:30	66	90
Tue	9/8/2022	08:35	53.2	90
Tue	9/8/2022	08:40	48.2	90
Tue	9/8/2022	08:45	52.1	90
Tue	9/8/2022	08:50	52.6	90
Tue	9/8/2022	08:55	47.6	90
Tue	9/8/2022	09:00	66	90
Tue	9/8/2022	09:05	67.8	90
Tue	9/8/2022	09:10	62.6	90
Tue	9/8/2022	09:15	48	90
Tue	9/8/2022	09:20	48.5	90
Tue	9/8/2022	09:25	49.5	90
Tue	9/8/2022	09:30	61.6	90
Tue	9/8/2022	09:35	64.4	90
Tue	9/8/2022	09:40	65	90
Tue	9/8/2022	09:45	64.9	90
Tue	9/8/2022	09:50	64.8	90
Tue	9/8/2022	09:55	65	90
Tue	9/8/2022	10:00	65.1	90
Tue	9/8/2022	10:05	66.5	90
Tue	9/8/2022	10:10	67.5	90
Tue	9/8/2022	10:15	67.6	90
Tue	9/8/2022	10:20	66.2	90
Tue	9/8/2022	10:25	67.6	90
Tue	9/8/2022	10:30	65.2	90
Tue	9/8/2022	10:35	50	90
Tue	9/8/2022	10:40	53.2	90
Tue	9/8/2022	10:45	54.1	90
Tue	9/8/2022	10:50	53	90
Tue	9/8/2022	10:55	53.3	90
Tue	9/8/2022	11:00	58.9	90
Tue	9/8/2022	11:05	50.7	90
Tue	9/8/2022	11:10	51.3	90
Tue	9/8/2022	11:15	57.6	90
Tue	9/8/2022	11:20	52.4	90
Tue	9/8/2022	11:25	58.7	90
Tue	9/8/2022	11:30	69.7	90
Tue	9/8/2022	11:35	61.4	90
Tue	9/8/2022	11:40	50.2	90

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Fri	12/8/2022	11:45	44.1	90
Fri	12/8/2022	11:50	53.8	90
Fri	12/8/2022	11:55	45.6	90
Fri	12/8/2022	12:00	63.1	90
Fri	12/8/2022	12:05	45.1	90
Fri	12/8/2022	12:10	47.9	90
Fri	12/8/2022	12:15	45	90
Fri	12/8/2022	12:20	42.9	90
Fri	12/8/2022	12:25	43.7	90
Fri	12/8/2022	12:30	45.1	90
Fri	12/8/2022	12:35	49.6	90
Fri	12/8/2022	12:40	46.3	90
Fri	12/8/2022	12:45	44.8	90
Fri	12/8/2022	12:50	43.9	90
Fri	12/8/2022	12:55	54.5	90
Fri	12/8/2022	13:00	44.2	90
Fri	12/8/2022	13:05	42.7	90
Fri	12/8/2022	13:10	46.7	90
Fri	12/8/2022	13:15	46.6	90
Fri	12/8/2022	13:20	63.2	90
Fri	12/8/2022	13:25	47.7	90
Fri	12/8/2022	13:30	68.1	90
Fri	12/8/2022	13:35	50.1	90
Fri	12/8/2022	13:40	46.2	90
Fri	12/8/2022	13:45	43.1	90
Fri	12/8/2022	13:50	42.8	90
Fri	12/8/2022	13:55	42.7	90
Fri	12/8/2022	14:00	42.6	90
Fri	12/8/2022	14:05	44.1	90
Fri	12/8/2022	14:10	42.9	90
Fri	12/8/2022	14:15	50	90
Fri	12/8/2022	14:20	53.4	90
Fri	12/8/2022	14:25	47.6	90
Fri	12/8/2022	14:30	46.5	90
Fri	12/8/2022	14:35	48.7	90
Fri	12/8/2022	14:40	63.5	90
Fri	12/8/2022	14:45	53.3	90
Fri	12/8/2022	14:50	52.3	90
Fri	12/8/2022	14:55	48.1	90
Fri	12/8/2022	15:00	46.9	90
Fri	12/8/2022	15:05	48.9	90
Fri	12/8/2022	15:10	49.4	90
Fri	12/8/2022	15:15	46.8	90
Fri	12/8/2022	15:20	50.3	90

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Tue	9/8/2022	11:45	50.1	90
Tue	9/8/2022	11:50	49.4	90
Tue	9/8/2022	11:55	48.1	90
Tue	9/8/2022	12:00	49.5	90
Tue	9/8/2022	12:05	50.6	90
Tue	9/8/2022	12:10	45.4	90
Tue	9/8/2022	12:15	49.3	90
Tue	9/8/2022	12:20	55.4	90
Tue	9/8/2022	12:25	65.7	90
Tue	9/8/2022	12:30	55.3	90
Tue	9/8/2022	12:35	46.6	90
Tue	9/8/2022	12:40	49.1	90
Tue	9/8/2022	12:45	49.8	90
Tue	9/8/2022	12:50	54.5	90
Tue	9/8/2022	12:55	54.6	90
Tue	9/8/2022	13:00	57.7	90
Tue	9/8/2022	13:05	50.3	90
Tue	9/8/2022	13:10	51.6	90
Tue	9/8/2022	13:15	49.9	90
Tue	9/8/2022	13:20	59.4	90
Tue	9/8/2022	13:25	49	90
Tue	9/8/2022	13:30	61.2	90
Tue	9/8/2022	13:35	65.6	90
Tue	9/8/2022	13:40	57.1	90
Tue	9/8/2022	13:45	53	90
Tue	9/8/2022	13:50	53.1	90
Tue	9/8/2022	13:55	56.5	90
Tue	9/8/2022	14:00	53.5	90
Tue	9/8/2022	14:05	46.2	90
Tue	9/8/2022	14:10	46.1	90
Tue	9/8/2022	14:15	59	90
Tue	9/8/2022	14:20	67.6	90
Tue	9/8/2022	14:25	67.8	90
Tue	9/8/2022	14:30	67.8	90
Tue	9/8/2022	14:35	50.6	90
Tue	9/8/2022	14:40	47.9	90
Tue	9/8/2022	14:45	48	90
Tue	9/8/2022	14:50	57.1	90
Tue	9/8/2022	14:55	55.3	90
Tue	9/8/2022	15:00	53.2	90
Tue	9/8/2022	15:05	54.9	90
Tue	9/8/2022	15:10	50.2	90
Tue	9/8/2022	15:15	54.1	90
Tue	9/8/2022	15:20	51.9	90

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Fri	12/8/2022	15:25	44.6	90
Fri	12/8/2022	15:30	47.4	90
Fri	12/8/2022	15:35	50.7	90
Fri	12/8/2022	15:40	49.7	90
Fri	12/8/2022	15:45	44.6	90
Fri	12/8/2022	15:50	46.5	90
Fri	12/8/2022	15:55	47.8	90
Fri	12/8/2022	16:00	55.7	90
Fri	12/8/2022	16:05	44.3	90
Fri	12/8/2022	16:10	64.3	90
Fri	12/8/2022	16:15	46.8	90
Fri	12/8/2022	16:20	48	90
Fri	12/8/2022	16:25	44.7	90
Fri	12/8/2022	16:30	53.3	90
Fri	12/8/2022	16:35	46.7	90
Fri	12/8/2022	16:40	46.9	90
Fri	12/8/2022	16:45	57.4	90
Fri	12/8/2022	16:50	48.9	90
Fri	12/8/2022	16:55	50.5	90
Fri	12/8/2022	17:00	45.2	90
Fri	12/8/2022	17:05	47.4	90
Fri	12/8/2022	17:10	45.3	90
Fri	12/8/2022	17:15	46.5	90
Fri	12/8/2022	17:20	45.1	90
Fri	12/8/2022	17:25	49.6	90
Fri	12/8/2022	17:30	47.1	90
Fri	12/8/2022	17:35	47	90
Fri	12/8/2022	17:40	49.4	90
Fri	12/8/2022	17:45	46.4	90
Fri	12/8/2022	17:50	50.9	90
Fri	12/8/2022	17:55	56.3	90
Fri	12/8/2022	18:00	47.3	90
Fri	12/8/2022	18:05	46.7	90
Fri	12/8/2022	18:10	49.7	90
Fri	12/8/2022	18:15	51.2	90
Fri	12/8/2022	18:20	46.4	90
Fri	12/8/2022	18:25	49.3	90
Fri	12/8/2022	18:30	55.8	90
Fri	12/8/2022	18:35	60.2	90
Fri	12/8/2022	18:40	49.4	90
Fri	12/8/2022	18:45	49.1	90
Fri	12/8/2022	18:50	51.5	90
Fri	12/8/2022	18:55	47.4	90
Fri	12/8/2022	19:00	46.9	70

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Tue	9/8/2022	15:25	53.2	90
Tue	9/8/2022	15:30	60.9	90
Tue	9/8/2022	15:35	50.9	90
Tue	9/8/2022	15:40	50.3	90
Tue	9/8/2022	15:45	49	90
Tue	9/8/2022	15:50	49.9	90
Tue	9/8/2022	15:55	56.9	90
Tue	9/8/2022	16:00	52.3	90
Tue	9/8/2022	16:05	52.1	90
Tue	9/8/2022	16:10	54.1	90
Tue	9/8/2022	16:15	52.4	90
Tue	9/8/2022	16:20	56	90
Tue	9/8/2022	16:25	52.2	90
Tue	9/8/2022	16:30	63	90
Tue	9/8/2022	16:35	56.7	90
Tue	9/8/2022	16:40	53.9	90
Tue	9/8/2022	16:45	53.2	90
Tue	9/8/2022	16:50	53.6	90
Tue	9/8/2022	16:55	53.3	90
Tue	9/8/2022	17:00	62.1	90
Tue	9/8/2022	17:05	73.6	90
Tue	9/8/2022	17:10	68.3	90
Tue	9/8/2022	17:15	50.9	90
Tue	9/8/2022	17:20	49.4	90
Tue	9/8/2022	17:25	50.5	90
Tue	9/8/2022	17:30	53.2	90
Tue	9/8/2022	17:35	51.2	90
Tue	9/8/2022	17:40	51.6	90
Tue	9/8/2022	17:45	51.2	90
Tue	9/8/2022	17:50	51.3	90
Tue	9/8/2022	17:55	57.7	90
Tue	9/8/2022	18:00	49.4	90
Tue	9/8/2022	18:05	51	90
Tue	9/8/2022	18:10	48.8	90
Tue	9/8/2022	18:15	58.7	90
Tue	9/8/2022	18:20	53.4	90
Tue	9/8/2022	18:25	50.5	90
Tue	9/8/2022	18:30	48.9	90
Tue	9/8/2022	18:35	50.6	90
Tue	9/8/2022	18:40	50.3	90
Tue	9/8/2022	18:45	50.6	90
Tue	9/8/2022	18:50	50	90
Tue	9/8/2022	18:55	51.5	90
Tue	9/8/2022	19:00	49.3	90

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Fri	12/8/2022	19:05	46.7	70
Fri	12/8/2022	19:10	51.1	70
Fri	12/8/2022	19:15	47.8	70
Fri	12/8/2022	19:20	49.3	70
Fri	12/8/2022	19:25	47.6	70
Fri	12/8/2022	19:30	48.3	70
Fri	12/8/2022	19:35	53.7	70
Fri	12/8/2022	19:40	50.4	70
Fri	12/8/2022	19:45	51.8	70
Fri	12/8/2022	19:50	49.9	70
Fri	12/8/2022	19:55	50.2	70
Fri	12/8/2022	20:00	52.4	70
Fri	12/8/2022	20:05	52.3	70
Fri	12/8/2022	20:10	45.4	70
Fri	12/8/2022	20:15	49.4	70
Fri	12/8/2022	20:20	47.9	70
Fri	12/8/2022	20:25	50.8	70
Fri	12/8/2022	20:30	48.8	70
Fri	12/8/2022	20:35	48.8	70
Fri	12/8/2022	20:40	51.9	70
Fri	12/8/2022	20:45	44.3	70
Fri	12/8/2022	20:50	45.8	70
Fri	12/8/2022	20:55	46	70
Fri	12/8/2022	21:00	45.3	70
Fri	12/8/2022	21:05	44.9	70
Fri	12/8/2022	21:10	53.1	70
Fri	12/8/2022	21:15	50.9	70
Fri	12/8/2022	21:20	46.8	70
Fri	12/8/2022	21:25	51.5	70
Fri	12/8/2022	21:30	55.4	70
Fri	12/8/2022	21:35	55.1	70
Fri	12/8/2022	21:40	53.2	70
Fri	12/8/2022	21:45	50.1	70
Fri	12/8/2022	21:50	52.8	70
Fri	12/8/2022	21:55	51	70
Fri	12/8/2022	22:00	55.8	70
Fri	12/8/2022	22:05	56.3	70
Fri	12/8/2022	22:10	55.4	70
Fri	12/8/2022	22:15	55.4	70
Fri	12/8/2022	22:20	55.3	70
Fri	12/8/2022	22:25	56.6	70
Fri	12/8/2022	22:30	56.5	70
Fri	12/8/2022	22:35	54.9	70
Fri	12/8/2022	22:40	56.9	70

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Tue	9/8/2022	19:05	51	70
Tue	9/8/2022	19:10	49.6	70
Tue	9/8/2022	19:15	49.7	70
Tue	9/8/2022	19:20	52	70
Tue	9/8/2022	19:25	62	70
Tue	9/8/2022	19:30	49.8	70
Tue	9/8/2022	19:35	50.5	70
Tue	9/8/2022	19:40	47.1	70
Tue	9/8/2022	19:45	55	70
Tue	9/8/2022	19:50	51.9	70
Tue	9/8/2022	19:55	52	70
Tue	9/8/2022	20:00	52.5	70
Tue	9/8/2022	20:05	50.3	70
Tue	9/8/2022	20:10	65.5	70
Tue	9/8/2022	20:15	54.6	70
Tue	9/8/2022	20:20	67	70
Tue	9/8/2022	20:25	67.6	70
Tue	9/8/2022	20:30	63.5	70
Tue	9/8/2022	20:35	56.5	70
Tue	9/8/2022	20:40	55.5	70
Tue	9/8/2022	20:45	61.7	70
Tue	9/8/2022	20:50	60	70
Tue	9/8/2022	20:55	57.9	70
Tue	9/8/2022	21:00	55.8	70
Tue	9/8/2022	21:05	66.4	70
Tue	9/8/2022	21:10	57.3	70
Tue	9/8/2022	21:15	54.5	70
Tue	9/8/2022	21:20	50.6	70
Tue	9/8/2022	21:25	49.9	70
Tue	9/8/2022	21:30	51.3	70
Tue	9/8/2022	21:35	48.9	70
Tue	9/8/2022	21:40	56.3	70
Tue	9/8/2022	21:45	50.8	70
Tue	9/8/2022	21:50	54.1	70
Tue	9/8/2022	21:55	47.5	70
Tue	9/8/2022	22:00	48.2	70
Tue	9/8/2022	22:05	50	55
Tue	9/8/2022	22:10	48.7	55
Tue	9/8/2022	22:15	60.1	55
Tue	9/8/2022	22:20	63.4	55
Tue	9/8/2022	22:25	64.6	55
Tue	9/8/2022	22:30	51.7	55
Tue	9/8/2022	22:35	48.7	55
Tue	9/8/2022	22:40	51	55

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Fri	12/8/2022	22:45	57.6	70
Fri	12/8/2022	22:50	57.1	70
Fri	12/8/2022	22:55	57.5	70
Fri	12/8/2022	23:00	55.3	70
Fri	12/8/2022	23:05	54.4	70
Fri	12/8/2022	23:10	53.1	70
Fri	12/8/2022	23:15	55.1	70
Fri	12/8/2022	23:20	47.9	70
Fri	12/8/2022	23:25	52.1	70
Fri	12/8/2022	23:30	57	70
Fri	12/8/2022	23:35	55.8	70
Fri	12/8/2022	23:40	55.1	70
Fri	12/8/2022	23:45	59.8	70
Fri	12/8/2022	23:50	63.3	70
Fri	12/8/2022	23:55	61.1	70
Sat	13/8/2022	00:00	65.8	70
Sat	13/8/2022	00:05	53.9	70
Sat	13/8/2022	00:10	53.4	70
Sat	13/8/2022	00:15	50.6	70
Sat	13/8/2022	00:20	52.7	70
Sat	13/8/2022	00:25	47.9	70
Sat	13/8/2022	00:30	47.8	70
Sat	13/8/2022	00:35	51.6	70
Sat	13/8/2022	00:40	48.2	70
Sat	13/8/2022	00:45	48.6	70
Sat	13/8/2022	00:50	49.3	70
Sat	13/8/2022	00:55	50.5	70
Sat	13/8/2022	01:00	50	70
Sat	13/8/2022	01:05	49.4	70
Sat	13/8/2022	01:10	49.4	70
Sat	13/8/2022	01:15	50.8	70
Sat	13/8/2022	01:20	50	70
Sat	13/8/2022	01:25	48.7	70
Sat	13/8/2022	01:30	47.9	70
Sat	13/8/2022	01:35	48.1	70
Sat	13/8/2022	01:40	48.2	70
Sat	13/8/2022	01:45	49.3	70
Sat	13/8/2022	01:50	48.7	70
Sat	13/8/2022	01:55	47.2	70
Sat	13/8/2022	02:00	47.4	70
Sat	13/8/2022	02:05	47.5	70
Sat	13/8/2022	02:10	49.8	70
Sat	13/8/2022	02:15	47.3	70
Sat	13/8/2022	02:20	47.4	70

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Tue	9/8/2022	22:45	49.1	55
Tue	9/8/2022	22:50	47.2	55
Tue	9/8/2022	22:55	50.1	55
Tue	9/8/2022	23:00	50.4	55
Tue	9/8/2022	23:05	48.1	55
Tue	9/8/2022	23:10	46.1	55
Tue	9/8/2022	23:15	46.3	55
Tue	9/8/2022	23:20	45.8	55
Tue	9/8/2022	23:25	47.2	55
Tue	9/8/2022	23:30	46.5	55
Tue	9/8/2022	23:35	46.3	55
Tue	9/8/2022	23:40	46.7	55
Tue	9/8/2022	23:45	45.6	55
Tue	9/8/2022	23:50	46.7	55
Tue	9/8/2022	23:55	45.6	55
Wed	10/8/2022	00:00	45.8	55
Wed	10/8/2022	00:05	52.9	55
Wed	10/8/2022	00:10	51.3	55
Wed	10/8/2022	00:15	52	55
Wed	10/8/2022	00:20	51.3	55
Wed	10/8/2022	00:25	50.6	55
Wed	10/8/2022	00:30	46.2	55
Wed	10/8/2022	00:35	46.3	55
Wed	10/8/2022	00:40	46.1	55
Wed	10/8/2022	00:45	55.5	55
Wed	10/8/2022	00:50	58.3	55
Wed	10/8/2022	00:55	57.7	55
Wed	10/8/2022	01:00	58	55
Wed	10/8/2022	01:05	58.3	55
Wed	10/8/2022	01:10	58.4	55
Wed	10/8/2022	01:15	57.9	55
Wed	10/8/2022	01:20	58.2	55
Wed	10/8/2022	01:25	55.6	55
Wed	10/8/2022	01:30	46.2	55
Wed	10/8/2022	01:35	46.5	55
Wed	10/8/2022	01:40	46.4	55
Wed	10/8/2022	01:45	46.1	55
Wed	10/8/2022	01:50	46.2	55
Wed	10/8/2022	01:55	46.5	55
Wed	10/8/2022	02:00	46.1	55
Wed	10/8/2022	02:05	45.9	55
Wed	10/8/2022	02:10	45.6	55
Wed	10/8/2022	02:15	55.7	55
Wed	10/8/2022	02:20	46.5	55

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sat	13/8/2022	02:25	47.1	70
Sat	13/8/2022	02:30	46.4	70
Sat	13/8/2022	02:35	46.3	70
Sat	13/8/2022	02:40	47.4	70
Sat	13/8/2022	02:45	47.7	70
Sat	13/8/2022	02:50	47.8	70
Sat	13/8/2022	02:55	47.2	70
Sat	13/8/2022	03:00	47.3	70
Sat	13/8/2022	03:05	46.5	70
Sat	13/8/2022	03:10	46.5	70
Sat	13/8/2022	03:15	46.7	70
Sat	13/8/2022	03:20	47.2	70
Sat	13/8/2022	03:25	46.1	70
Sat	13/8/2022	03:30	46.3	70
Sat	13/8/2022	03:35	46.1	70
Sat	13/8/2022	03:40	47.3	70
Sat	13/8/2022	03:45	46.8	70
Sat	13/8/2022	03:50	47.4	70
Sat	13/8/2022	03:55	46.6	70
Sat	13/8/2022	04:00	45.9	70
Sat	13/8/2022	04:05	46.3	70
Sat	13/8/2022	04:10	50.3	70
Sat	13/8/2022	04:15	46.6	70
Sat	13/8/2022	04:20	46.6	70
Sat	13/8/2022	04:25	45.8	70
Sat	13/8/2022	04:30	46.9	70
Sat	13/8/2022	04:35	47.4	70
Sat	13/8/2022	04:40	47.8	70
Sat	13/8/2022	04:45	47.4	70
Sat	13/8/2022	04:50	47.5	70
Sat	13/8/2022	04:55	47.1	70
Sat	13/8/2022	05:00	48.2	70
Sat	13/8/2022	05:05	48.1	70
Sat	13/8/2022	05:10	47.4	70
Sat	13/8/2022	05:15	47.5	70
Sat	13/8/2022	05:20	46.3	70
Sat	13/8/2022	05:25	45.4	70
Sat	13/8/2022	05:30	46.4	70
Sat	13/8/2022	05:35	46.1	70
Sat	13/8/2022	05:40	46.9	70
Sat	13/8/2022	05:45	48.2	70
Sat	13/8/2022	05:50	46.4	70
Sat	13/8/2022	05:55	46.8	70
Sat	13/8/2022	06:00	48.6	70

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Wed	10/8/2022	02:25	52.5	55
Wed	10/8/2022	02:30	55.3	55
Wed	10/8/2022	02:35	50.6	55
Wed	10/8/2022	02:40	55.7	55
Wed	10/8/2022	02:45	56.6	55
Wed	10/8/2022	02:50	54.8	55
Wed	10/8/2022	02:55	54	55
Wed	10/8/2022	03:00	56.5	55
Wed	10/8/2022	03:05	56.1	55
Wed	10/8/2022	03:10	55	55
Wed	10/8/2022	03:15	56.2	55
Wed	10/8/2022	03:20	56.7	55
Wed	10/8/2022	03:25	54.8	55
Wed	10/8/2022	03:30	45.5	55
Wed	10/8/2022	03:35	45.5	55
Wed	10/8/2022	03:40	46.2	55
Wed	10/8/2022	03:45	47	55
Wed	10/8/2022	03:50	50.6	55
Wed	10/8/2022	03:55	48.9	55
Wed	10/8/2022	04:00	51.4	55
Wed	10/8/2022	04:05	52.3	55
Wed	10/8/2022	04:10	51.2	55
Wed	10/8/2022	04:15	49.8	55
Wed	10/8/2022	04:20	50.4	55
Wed	10/8/2022	04:25	50.3	55
Wed	10/8/2022	04:30	47.9	55
Wed	10/8/2022	04:35	46.7	55
Wed	10/8/2022	04:40	46.4	55
Wed	10/8/2022	04:45	61.9	55
Wed	10/8/2022	04:50	45.8	55
Wed	10/8/2022	04:55	45.9	55
Wed	10/8/2022	05:00	46.2	55
Wed	10/8/2022	05:05	47.7	55
Wed	10/8/2022	05:10	50.7	55
Wed	10/8/2022	05:15	58.9	55
Wed	10/8/2022	05:20	49.8	55
Wed	10/8/2022	05:25	47.8	55
Wed	10/8/2022	05:30	50.1	55
Wed	10/8/2022	05:35	48.3	55
Wed	10/8/2022	05:40	48.3	55
Wed	10/8/2022	05:45	48.1	55
Wed	10/8/2022	05:50	61.5	55
Wed	10/8/2022	05:55	50.5	55
Wed	10/8/2022	06:00	56.1	55

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sat	13/8/2022	06:05	46.5	70
Sat	13/8/2022	06:10	47.1	70
Sat	13/8/2022	06:15	50	70
Sat	13/8/2022	06:20	46.4	70
Sat	13/8/2022	06:25	46.6	70
Sat	13/8/2022	06:30	46.1	70
Sat	13/8/2022	06:35	46.3	70
Sat	13/8/2022	06:40	45.6	70
Sat	13/8/2022	06:45	49.3	70
Sat	13/8/2022	06:50	46.3	70
Sat	13/8/2022	06:55	45.8	70
Sat	13/8/2022	07:00	47.2	90
Sat	13/8/2022	07:05	48.5	90
Sat	13/8/2022	07:10	46.3	90
Sat	13/8/2022	07:15	46.6	90
Sat	13/8/2022	07:20	46.7	90
Sat	13/8/2022	07:25	47.6	90
Sat	13/8/2022	07:30	50.8	90
Sat	13/8/2022	07:35	50.6	90
Sat	13/8/2022	07:40	50	90
Sat	13/8/2022	07:45	49.1	90
Sat	13/8/2022	07:50	52.4	90
Sat	13/8/2022	07:55	57.9	90
Sat	13/8/2022	08:00	59.1	90
Sat	13/8/2022	08:05	52.6	90
Sat	13/8/2022	08:10	60.3	90
Sat	13/8/2022	08:15	55.6	90
Sat	13/8/2022	08:20	58.8	90
Sat	13/8/2022	08:25	55.3	90
Sat	13/8/2022	08:30	57.3	90
Sat	13/8/2022	08:35	55.7	90
Sat	13/8/2022	08:40	53.9	90
Sat	13/8/2022	08:45	53.3	90
Sat	13/8/2022	08:50	53.6	90
Sat	13/8/2022	08:55	51.9	90
Sat	13/8/2022	09:00	51.3	90
Sat	13/8/2022	09:05	50	90
Sat	13/8/2022	09:10	50.2	90
Sat	13/8/2022	09:15	53.6	90
Sat	13/8/2022	09:20	49.1	90
Sat	13/8/2022	09:25	49.9	90
Sat	13/8/2022	09:30	49.6	90
Sat	13/8/2022	09:35	49.6	90
Sat	13/8/2022	09:40	48.9	90

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Wed	10/8/2022	06:05	53.2	55
Wed	10/8/2022	06:10	53.8	55
Wed	10/8/2022	06:15	54.2	55
Wed	10/8/2022	06:20	51.7	55
Wed	10/8/2022	06:25	58.6	55
Wed	10/8/2022	06:30	59.1	55
Wed	10/8/2022	06:35	51.5	55
Wed	10/8/2022	06:40	49.8	55
Wed	10/8/2022	06:45	50	55
Wed	10/8/2022	06:50	50	55
Wed	10/8/2022	06:55	67.4	55
Wed	10/8/2022	07:00	67.4	55
Wed	10/8/2022	07:05	52.6	90
Wed	10/8/2022	07:10	51.6	90
Wed	10/8/2022	07:15	50.2	90
Wed	10/8/2022	07:20	58.7	90
Wed	10/8/2022	07:25	68	90
Wed	10/8/2022	07:30	66.6	90
Wed	10/8/2022	07:35	53.4	90
Wed	10/8/2022	07:40	57.4	90
Wed	10/8/2022	07:45	56.4	90
Wed	10/8/2022	07:50	58.1	90
Wed	10/8/2022	07:55	66.6	90
Wed	10/8/2022	08:00	62.3	90
Wed	10/8/2022	08:05	56.2	90
Wed	10/8/2022	08:10	52	90
Wed	10/8/2022	08:15	54.3	90
Wed	10/8/2022	08:20	52.5	90
Wed	10/8/2022	08:25	50.4	90
Wed	10/8/2022	08:30	57.9	90
Wed	10/8/2022	08:35	52.5	90
Wed	10/8/2022	08:40	54.6	90
Wed	10/8/2022	08:45	51.4	90
Wed	10/8/2022	08:50	52.1	90
Wed	10/8/2022	08:55	59.4	90
Wed	10/8/2022	09:00	50.3	90
Wed	10/8/2022	09:05	54.6	90
Wed	10/8/2022	09:10	52.9	90
Wed	10/8/2022	09:15	56.3	90
Wed	10/8/2022	09:20	53.2	90
Wed	10/8/2022	09:25	58.6	90
Wed	10/8/2022	09:30	60.4	90
Wed	10/8/2022	09:35	58.7	90
Wed	10/8/2022	09:40	58.9	90

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sat	13/8/2022	09:45	49.8	90
Sat	13/8/2022	09:50	51	90
Sat	13/8/2022	09:55	50.9	90
Sat	13/8/2022	10:00	48	90
Sat	13/8/2022	10:05	47.8	90
Sat	13/8/2022	10:10	50.1	90
Sat	13/8/2022	10:15	46.6	90
Sat	13/8/2022	10:20	48.6	90
Sat	13/8/2022	10:25	50.3	90
Sat	13/8/2022	10:30	53.1	90
Sat	13/8/2022	10:35	47.8	90
Sat	13/8/2022	10:40	49.9	90
Sat	13/8/2022	10:45	46.2	90
Sat	13/8/2022	10:50	49.4	90
Sat	13/8/2022	10:55	48.7	90
Sat	13/8/2022	11:00	52.1	90
Sat	13/8/2022	11:05	50.5	90
Sat	13/8/2022	11:10	45.8	90
Sat	13/8/2022	11:15	50.8	90
Sat	13/8/2022	11:20	50.3	90
Sat	13/8/2022	11:25	50.2	90
Sat	13/8/2022	11:30	47	90
Sat	13/8/2022	11:35	47.2	90
Sat	13/8/2022	11:40	45.8	90
Sat	13/8/2022	11:45	46.9	90
Sat	13/8/2022	11:50	50.5	90
Sat	13/8/2022	11:55	46.9	90
Sat	13/8/2022	12:00	44	90
Sat	13/8/2022	12:05	45.8	90
Sat	13/8/2022	12:10	48.1	90
Sat	13/8/2022	12:15	45.4	90
Sat	13/8/2022	12:20	43	90
Sat	13/8/2022	12:25	48.3	90
Sat	13/8/2022	12:30	46.6	90
Sat	13/8/2022	12:35	45.5	90
Sat	13/8/2022	12:40	59.2	90
Sat	13/8/2022	12:45	45.2	90
Sat	13/8/2022	12:50	44.6	90
Sat	13/8/2022	12:55	45.7	90
Sat	13/8/2022	13:00	53.3	90
Sat	13/8/2022	13:05	56	90
Sat	13/8/2022	13:10	50.4	90
Sat	13/8/2022	13:15	53.1	90
Sat	13/8/2022	13:20	54.6	90

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Wed	10/8/2022	09:45	62.1	90
Wed	10/8/2022	09:50	67.7	90
Wed	10/8/2022	09:55	67.9	90
Wed	10/8/2022	10:00	67.5	90
Wed	10/8/2022	10:05	57.8	90
Wed	10/8/2022	10:10	70.8	90
Wed	10/8/2022	10:15	52.3	90
Wed	10/8/2022	10:20	57.6	90
Wed	10/8/2022	10:25	57.1	90
Wed	10/8/2022	10:30	63.8	90
Wed	10/8/2022	10:35	68.5	90
Wed	10/8/2022	10:40	67.8	90
Wed	10/8/2022	10:45	68.1	90
Wed	10/8/2022	10:50	68	90
Wed	10/8/2022	10:55	68	90
Wed	10/8/2022	11:00	67.6	90
Wed	10/8/2022	11:05	55	90
Wed	10/8/2022	11:10	58.1	90
Wed	10/8/2022	11:15	56	90
Wed	10/8/2022	11:20	54	90
Wed	10/8/2022	11:25	64.1	90
Wed	10/8/2022	11:30	55.3	90
Wed	10/8/2022	11:35	50.2	90
Wed	10/8/2022	11:40	54.2	90
Wed	10/8/2022	11:45	52.7	90
Wed	10/8/2022	11:50	47.9	90
Wed	10/8/2022	11:55	53.2	90
Wed	10/8/2022	12:00	52.6	90
Wed	10/8/2022	12:05	52.5	90
Wed	10/8/2022	12:10	51.7	90
Wed	10/8/2022	12:15	51.5	90
Wed	10/8/2022	12:20	54.4	90
Wed	10/8/2022	12:25	51	90
Wed	10/8/2022	12:30	50	90
Wed	10/8/2022	12:35	55.9	90
Wed	10/8/2022	12:40	49.7	90
Wed	10/8/2022	12:45	53.1	90
Wed	10/8/2022	12:50	65.8	90
Wed	10/8/2022	12:55	68.5	90
Wed	10/8/2022	13:00	68.9	90
Wed	10/8/2022	13:05	58.8	90
Wed	10/8/2022	13:10	49.5	90
Wed	10/8/2022	13:15	49.6	90
Wed	10/8/2022	13:20	65.8	90

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sat	13/8/2022	13:25	47.3	90
Sat	13/8/2022	13:30	49.2	90
Sat	13/8/2022	13:35	51.7	90
Sat	13/8/2022	13:40	46.1	90
Sat	13/8/2022	13:45	45	90
Sat	13/8/2022	13:50	44.3	90
Sat	13/8/2022	13:55	45	90
Sat	13/8/2022	14:00	46	90
Sat	13/8/2022	14:05	44.1	90
Sat	13/8/2022	14:10	45.8	90
Sat	13/8/2022	14:15	51.9	90
Sat	13/8/2022	14:20	44.6	90
Sat	13/8/2022	14:25	47.8	90
Sat	13/8/2022	14:30	45.2	90
Sat	13/8/2022	14:35	45.6	90
Sat	13/8/2022	14:40	47.8	90
Sat	13/8/2022	14:45	47.5	90
Sat	13/8/2022	14:50	49.6	90
Sat	13/8/2022	14:55	46.1	90
Sat	13/8/2022	15:00	46	90
Sat	13/8/2022	15:05	59.7	90
Sat	13/8/2022	15:10	45.7	90
Sat	13/8/2022	15:15	50.3	90
Sat	13/8/2022	15:20	47.9	90
Sat	13/8/2022	15:25	57.1	90
Sat	13/8/2022	15:30	48.1	90
Sat	13/8/2022	15:35	53.9	90
Sat	13/8/2022	15:40	48.1	90
Sat	13/8/2022	15:45	50.1	90
Sat	13/8/2022	15:50	51.1	90
Sat	13/8/2022	15:55	50.2	90
Sat	13/8/2022	16:00	51.4	90
Sat	13/8/2022	16:05	54.7	90
Sat	13/8/2022	16:10	57.2	90
Sat	13/8/2022	16:15	52.8	90
Sat	13/8/2022	16:20	52.2	90
Sat	13/8/2022	16:25	50.1	90
Sat	13/8/2022	16:30	49.7	90
Sat	13/8/2022	16:35	51.6	90
Sat	13/8/2022	16:40	52.6	90
Sat	13/8/2022	16:45	51.2	90
Sat	13/8/2022	16:50	47.8	90
Sat	13/8/2022	16:55	53.9	90
Sat	13/8/2022	17:00	43.5	90

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Wed	10/8/2022	13:25	49.6	90
Wed	10/8/2022	13:30	65.2	90
Wed	10/8/2022	13:35	65.2	90
Wed	10/8/2022	13:40	53.7	90
Wed	10/8/2022	13:45	50.3	90
Wed	10/8/2022	13:50	47	90
Wed	10/8/2022	13:55	64.6	90
Wed	10/8/2022	14:00	64.5	90
Wed	10/8/2022	14:05	64.3	90
Wed	10/8/2022	14:10	64.9	90
Wed	10/8/2022	14:15	64.3	90
Wed	10/8/2022	14:20	70.8	90
Wed	10/8/2022	14:25	67.3	90
Wed	10/8/2022	14:30	58.1	90
Wed	10/8/2022	14:35	50.6	90
Wed	10/8/2022	14:40	58.5	90
Wed	10/8/2022	14:45	50.5	90
Wed	10/8/2022	14:50	53.1	90
Wed	10/8/2022	14:55	53.3	90
Wed	10/8/2022	15:00	53.9	90
Wed	10/8/2022	15:05	54.4	90
Wed	10/8/2022	15:10	50.6	90
Wed	10/8/2022	15:15	48.2	90
Wed	10/8/2022	15:20	55.2	90
Wed	10/8/2022	15:25	59.7	90
Wed	10/8/2022	15:30	65.7	90
Wed	10/8/2022	15:35	67.7	90
Wed	10/8/2022	15:40	67.6	90
Wed	10/8/2022	15:45	67.6	90
Wed	10/8/2022	15:50	67.6	90
Wed	10/8/2022	15:55	65.7	90
Wed	10/8/2022	16:00	63.5	90
Wed	10/8/2022	16:05	59.8	90
Wed	10/8/2022	16:10	58.3	90
Wed	10/8/2022	16:15	60.4	90
Wed	10/8/2022	16:20	57.5	90
Wed	10/8/2022	16:25	61.9	90
Wed	10/8/2022	16:30	67	90
Wed	10/8/2022	16:35	55.4	90
Wed	10/8/2022	16:40	51.8	90
Wed	10/8/2022	16:45	48.8	90
Wed	10/8/2022	16:50	52	90
Wed	10/8/2022	16:55	51.2	90
Wed	10/8/2022	17:00	48	90

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sat	13/8/2022	17:05	58	90
Sat	13/8/2022	17:10	45.8	90
Sat	13/8/2022	17:15	44.6	90
Sat	13/8/2022	17:20	49.4	90
Sat	13/8/2022	17:25	47.3	90
Sat	13/8/2022	17:30	47.4	90
Sat	13/8/2022	17:35	45.5	90
Sat	13/8/2022	17:40	58.8	90
Sat	13/8/2022	17:45	44.6	90
Sat	13/8/2022	17:50	55.4	90
Sat	13/8/2022	17:55	47.5	90
Sat	13/8/2022	18:00	47.1	90
Sat	13/8/2022	18:05	45.2	90
Sat	13/8/2022	18:10	47.3	90
Sat	13/8/2022	18:15	50.1	90
Sat	13/8/2022	18:20	49.5	90
Sat	13/8/2022	18:25	46.4	90
Sat	13/8/2022	18:30	45.1	90
Sat	13/8/2022	18:35	46.6	90
Sat	13/8/2022	18:40	47.2	90
Sat	13/8/2022	18:45	44.5	90
Sat	13/8/2022	18:50	48.4	90
Sat	13/8/2022	18:55	51.2	90
Sat	13/8/2022	19:00	47.5	70
Sat	13/8/2022	19:05	47.5	70
Sat	13/8/2022	19:10	48.7	70
Sat	13/8/2022	19:15	53	70
Sat	13/8/2022	19:20	52.9	70
Sat	13/8/2022	19:25	45.7	70
Sat	13/8/2022	19:30	49.9	70
Sat	13/8/2022	19:35	46.5	70
Sat	13/8/2022	19:40	46.7	70
Sat	13/8/2022	19:45	44	70
Sat	13/8/2022	19:50	46.6	70
Sat	13/8/2022	19:55	49.2	70
Sat	13/8/2022	20:00	47.9	70
Sat	13/8/2022	20:05	48.3	70
Sat	13/8/2022	20:10	50.5	70
Sat	13/8/2022	20:15	57.8	70
Sat	13/8/2022	20:20	63.9	70
Sat	13/8/2022	20:25	70.6	70
Sat	13/8/2022	20:30	63.8	70
Sat	13/8/2022	20:35	66.2	70
Sat	13/8/2022	20:40	63.5	70

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Wed	10/8/2022	17:05	48.4	90
Wed	10/8/2022	17:10	54.4	90
Wed	10/8/2022	17:15	58.9	90
Wed	10/8/2022	17:20	53.5	90
Wed	10/8/2022	17:25	58.5	90
Wed	10/8/2022	17:30	56.1	90
Wed	10/8/2022	17:35	50.9	90
Wed	10/8/2022	17:40	56	90
Wed	10/8/2022	17:45	55	90
Wed	10/8/2022	17:50	50.5	90
Wed	10/8/2022	17:55	64.1	90
Wed	10/8/2022	18:00	64.2	90
Wed	10/8/2022	18:05	46.7	90
Wed	10/8/2022	18:10	55.2	90
Wed	10/8/2022	18:15	47.9	90
Wed	10/8/2022	18:20	54.8	90
Wed	10/8/2022	18:25	57.3	90
Wed	10/8/2022	18:30	55.6	90
Wed	10/8/2022	18:35	51.8	90
Wed	10/8/2022	18:40	45.9	90
Wed	10/8/2022	18:45	51.9	90
Wed	10/8/2022	18:50	46.9	90
Wed	10/8/2022	18:55	57	90
Wed	10/8/2022	19:00	49.1	90
Wed	10/8/2022	19:05	49	70
Wed	10/8/2022	19:10	48.6	70
Wed	10/8/2022	19:15	46.5	70
Wed	10/8/2022	19:20	47	70
Wed	10/8/2022	19:25	50.5	70
Wed	10/8/2022	19:30	53.4	70
Wed	10/8/2022	19:35	49.8	70
Wed	10/8/2022	19:40	54.5	70
Wed	10/8/2022	19:45	48.3	70
Wed	10/8/2022	19:50	50.6	70
Wed	10/8/2022	19:55	59.4	70
Wed	10/8/2022	20:00	54.4	70
Wed	10/8/2022	20:05	59.6	70
Wed	10/8/2022	20:10	58.4	70
Wed	10/8/2022	20:15	57.1	70
Wed	10/8/2022	20:20	58	70
Wed	10/8/2022	20:25	51.8	70
Wed	10/8/2022	20:30	49.8	70
Wed	10/8/2022	20:35	52.1	70
Wed	10/8/2022	20:40	49.5	70

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sat	13/8/2022	20:45	51.8	70
Sat	13/8/2022	20:50	50.6	70
Sat	13/8/2022	20:55	48.5	70
Sat	13/8/2022	21:00	48.6	70
Sat	13/8/2022	21:05	47.4	70
Sat	13/8/2022	21:10	47.3	70
Sat	13/8/2022	21:15	46.3	70
Sat	13/8/2022	21:20	48.2	70
Sat	13/8/2022	21:25	46.2	70
Sat	13/8/2022	21:30	49.2	70
Sat	13/8/2022	21:35	48.2	70
Sat	13/8/2022	21:40	47.3	70
Sat	13/8/2022	21:45	49.3	70
Sat	13/8/2022	21:50	47.5	70
Sat	13/8/2022	21:55	48.3	70
Sat	13/8/2022	22:00	50.1	70
Sat	13/8/2022	22:05	49.5	70
Sat	13/8/2022	22:10	50.6	70
Sat	13/8/2022	22:15	49.9	70
Sat	13/8/2022	22:20	49.6	70
Sat	13/8/2022	22:25	48.9	70
Sat	13/8/2022	22:30	46.7	70
Sat	13/8/2022	22:35	45.4	70
Sat	13/8/2022	22:40	45.4	70
Sat	13/8/2022	22:45	45.1	70
Sat	13/8/2022	22:50	45.7	70
Sat	13/8/2022	22:55	48.1	70
Sat	13/8/2022	23:00	46.8	70
Sat	13/8/2022	23:05	45.1	70
Sat	13/8/2022	23:10	47.4	70
Sat	13/8/2022	23:15	49.4	70
Sat	13/8/2022	23:20	46	70
Sat	13/8/2022	23:25	46.5	70
Sat	13/8/2022	23:30	50.8	70
Sat	13/8/2022	23:35	46.7	70
Sat	13/8/2022	23:40	47.1	70
Sat	13/8/2022	23:45	48	70
Sat	13/8/2022	23:50	47.1	70
Sat	13/8/2022	23:55	46.3	70
Sun	14/8/2022	00:00	47.5	70
Sun	14/8/2022	00:05	48	70
Sun	14/8/2022	00:10	47	70
Sun	14/8/2022	00:15	47.9	70
Sun	14/8/2022	00:20	47	70

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Wed	10/8/2022	20:45	59.1	70
Wed	10/8/2022	20:50	51.2	70
Wed	10/8/2022	20:55	52.4	70
Wed	10/8/2022	21:00	52.1	70
Wed	10/8/2022	21:05	54.2	70
Wed	10/8/2022	21:10	47	70
Wed	10/8/2022	21:15	47.5	70
Wed	10/8/2022	21:20	47.1	70
Wed	10/8/2022	21:25	47.5	70
Wed	10/8/2022	21:30	47.9	70
Wed	10/8/2022	21:35	46.3	70
Wed	10/8/2022	21:40	45.3	70
Wed	10/8/2022	21:45	46.1	70
Wed	10/8/2022	21:50	47.4	70
Wed	10/8/2022	21:55	47.4	70
Wed	10/8/2022	22:00	50.1	70
Wed	10/8/2022	22:05	46.2	55
Wed	10/8/2022	22:10	47.1	55
Wed	10/8/2022	22:15	54.9	55
Wed	10/8/2022	22:20	45.7	55
Wed	10/8/2022	22:25	47.9	55
Wed	10/8/2022	22:30	51.6	55
Wed	10/8/2022	22:35	53.9	55
Wed	10/8/2022	22:40	55.6	55
Wed	10/8/2022	22:45	56.3	55
Wed	10/8/2022	22:50	55.5	55
Wed	10/8/2022	22:55	56.5	55
Wed	10/8/2022	23:00	55.9	55
Wed	10/8/2022	23:05	49.1	55
Wed	10/8/2022	23:10	45.7	55
Wed	10/8/2022	23:15	53.9	55
Wed	10/8/2022	23:20	47.7	55
Wed	10/8/2022	23:25	45.6	55
Wed	10/8/2022	23:30	45.5	55
Wed	10/8/2022	23:35	45.4	55
Wed	10/8/2022	23:40	45.1	55
Wed	10/8/2022	23:45	45.4	55
Wed	10/8/2022	23:50	53.6	55
Wed	10/8/2022	23:55	45.4	55
Thu	11/8/2022	00:00	45.4	55
Thu	11/8/2022	00:05	46.1	55
Thu	11/8/2022	00:10	46.1	55
Thu	11/8/2022	00:15	45.9	55
Thu	11/8/2022	00:20	47.6	55

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	00:25	47.2	70
Sun	14/8/2022	00:30	46.6	70
Sun	14/8/2022	00:35	46.8	70
Sun	14/8/2022	00:40	46.6	70
Sun	14/8/2022	00:45	47.2	70
Sun	14/8/2022	00:50	46.4	70
Sun	14/8/2022	00:55	49.4	70
Sun	14/8/2022	01:00	46.5	70
Sun	14/8/2022	01:05	46	70
Sun	14/8/2022	01:10	46.2	70
Sun	14/8/2022	01:15	45.6	70
Sun	14/8/2022	01:20	47	70
Sun	14/8/2022	01:25	46.6	70
Sun	14/8/2022	01:30	46.7	70
Sun	14/8/2022	01:35	46.5	70
Sun	14/8/2022	01:40	47	70
Sun	14/8/2022	01:45	46.2	70
Sun	14/8/2022	01:50	48.2	70
Sun	14/8/2022	01:55	45.9	70
Sun	14/8/2022	02:00	47	70
Sun	14/8/2022	02:05	47.5	70
Sun	14/8/2022	02:10	46.5	70
Sun	14/8/2022	02:15	46.6	70
Sun	14/8/2022	02:20	46.5	70
Sun	14/8/2022	02:25	45.7	70
Sun	14/8/2022	02:30	47.8	70
Sun	14/8/2022	02:35	49.3	70
Sun	14/8/2022	02:40	46.2	70
Sun	14/8/2022	02:45	46.2	70
Sun	14/8/2022	02:50	47.6	70
Sun	14/8/2022	02:55	47.3	70
Sun	14/8/2022	03:00	44.9	70
Sun	14/8/2022	03:05	47.5	70
Sun	14/8/2022	03:10	45.7	70
Sun	14/8/2022	03:15	46.2	70
Sun	14/8/2022	03:20	46.2	70
Sun	14/8/2022	03:25	45.9	70
Sun	14/8/2022	03:30	44.9	70
Sun	14/8/2022	03:35	47.3	70
Sun	14/8/2022	03:40	48.8	70
Sun	14/8/2022	03:45	44.3	70
Sun	14/8/2022	03:50	50.5	70
Sun	14/8/2022	03:55	46.6	70
Sun	14/8/2022	04:00	46.3	70

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Thu	11/8/2022	00:25	49.8	55
Thu	11/8/2022	00:30	45.8	55
Thu	11/8/2022	00:35	45.8	55
Thu	11/8/2022	00:40	46.1	55
Thu	11/8/2022	00:45	46.2	55
Thu	11/8/2022	00:50	46.1	55
Thu	11/8/2022	00:55	45.6	55
Thu	11/8/2022	01:00	45.7	55
Thu	11/8/2022	01:05	45.8	55
Thu	11/8/2022	01:10	47	55
Thu	11/8/2022	01:15	45.6	55
Thu	11/8/2022	01:20	45.7	55
Thu	11/8/2022	01:25	45.9	55
Thu	11/8/2022	01:30	46.1	55
Thu	11/8/2022	01:35	45.3	55
Thu	11/8/2022	01:40	44.8	55
Thu	11/8/2022	01:45	45.1	55
Thu	11/8/2022	01:50	45.2	55
Thu	11/8/2022	01:55	45.1	55
Thu	11/8/2022	02:00	45.5	55
Thu	11/8/2022	02:05	45.4	55
Thu	11/8/2022	02:10	46.2	55
Thu	11/8/2022	02:15	46.1	55
Thu	11/8/2022	02:20	45.7	55
Thu	11/8/2022	02:25	45.6	55
Thu	11/8/2022	02:30	45.9	55
Thu	11/8/2022	02:35	46	55
Thu	11/8/2022	02:40	45.7	55
Thu	11/8/2022	02:45	46.1	55
Thu	11/8/2022	02:50	45.9	55
Thu	11/8/2022	02:55	46.4	55
Thu	11/8/2022	03:00	46.1	55
Thu	11/8/2022	03:05	45.7	55
Thu	11/8/2022	03:10	45.4	55
Thu	11/8/2022	03:15	45.7	55
Thu	11/8/2022	03:20	45.9	55
Thu	11/8/2022	03:25	45.8	55
Thu	11/8/2022	03:30	46.1	55
Thu	11/8/2022	03:35	46.3	55
Thu	11/8/2022	03:40	52.9	55
Thu	11/8/2022	03:45	46	55
Thu	11/8/2022	03:50	45.7	55
Thu	11/8/2022	03:55	45.8	55
Thu	11/8/2022	04:00	45.6	55

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	04:05	47.2	70
Sun	14/8/2022	04:10	48.2	70
Sun	14/8/2022	04:15	48	70
Sun	14/8/2022	04:20	48	70
Sun	14/8/2022	04:25	47.5	70
Sun	14/8/2022	04:30	51.3	70
Sun	14/8/2022	04:35	48.8	70
Sun	14/8/2022	04:40	50.3	70
Sun	14/8/2022	04:45	50.2	70
Sun	14/8/2022	04:50	47	70
Sun	14/8/2022	04:55	50	70
Sun	14/8/2022	05:00	48.2	70
Sun	14/8/2022	05:05	51.3	70
Sun	14/8/2022	05:10	48.8	70
Sun	14/8/2022	05:15	51.2	70
Sun	14/8/2022	05:20	50.7	70
Sun	14/8/2022	05:25	50.1	70
Sun	14/8/2022	05:30	46.4	70
Sun	14/8/2022	05:35	46.7	70
Sun	14/8/2022	05:40	45.9	70
Sun	14/8/2022	05:45	46.4	70
Sun	14/8/2022	05:50	45.9	70
Sun	14/8/2022	05:55	46.2	70
Sun	14/8/2022	06:00	47.2	70
Sun	14/8/2022	06:05	46	70
Sun	14/8/2022	06:10	47.4	70
Sun	14/8/2022	06:15	47	70
Sun	14/8/2022	06:20	46.6	70
Sun	14/8/2022	06:25	46.5	70
Sun	14/8/2022	06:30	46.6	70
Sun	14/8/2022	06:35	46.8	70
Sun	14/8/2022	06:40	46.3	70
Sun	14/8/2022	06:45	46.1	70
Sun	14/8/2022	06:50	47	70
Sun	14/8/2022	06:55	46	70
Sun	14/8/2022	07:00	47.4	90
Sun	14/8/2022	07:05	48.4	90
Sun	14/8/2022	07:10	47	90
Sun	14/8/2022	07:15	46.8	90
Sun	14/8/2022	07:20	46.4	90
Sun	14/8/2022	07:25	49.9	90
Sun	14/8/2022	07:30	48.6	90
Sun	14/8/2022	07:35	48.3	90
Sun	14/8/2022	07:40	49.5	90

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Thu	11/8/2022	04:05	46	55
Thu	11/8/2022	04:10	45.7	55
Thu	11/8/2022	04:15	45.5	55
Thu	11/8/2022	04:20	50.2	55
Thu	11/8/2022	04:25	47.9	55
Thu	11/8/2022	04:30	45.6	55
Thu	11/8/2022	04:35	45.8	55
Thu	11/8/2022	04:40	45.8	55
Thu	11/8/2022	04:45	50.5	55
Thu	11/8/2022	04:50	45.7	55
Thu	11/8/2022	04:55	60.3	55
Thu	11/8/2022	05:00	67.7	55
Thu	11/8/2022	05:05	59.3	55
Thu	11/8/2022	05:10	48.7	55
Thu	11/8/2022	05:15	57.8	55
Thu	11/8/2022	05:20	64.3	55
Thu	11/8/2022	05:25	52.4	55
Thu	11/8/2022	05:30	59.9	55
Thu	11/8/2022	05:35	50	55
Thu	11/8/2022	05:40	59.3	55
Thu	11/8/2022	05:45	61.3	55
Thu	11/8/2022	05:50	48.2	55
Thu	11/8/2022	05:55	57.5	55
Thu	11/8/2022	06:00	59.8	55
Thu	11/8/2022	06:05	51.4	55
Thu	11/8/2022	06:10	51.5	55
Thu	11/8/2022	06:15	50.9	55
Thu	11/8/2022	06:20	50	55
Thu	11/8/2022	06:25	62.1	55
Thu	11/8/2022	06:30	51.8	55
Thu	11/8/2022	06:35	53.8	55
Thu	11/8/2022	06:40	52	55
Thu	11/8/2022	06:45	50.9	55
Thu	11/8/2022	06:50	48.5	55
Thu	11/8/2022	06:55	55.2	55
Thu	11/8/2022	07:00	67.5	55
Thu	11/8/2022	07:05	54.8	90
Thu	11/8/2022	07:10	60	90
Thu	11/8/2022	07:15	59.6	90
Thu	11/8/2022	07:20	52.7	90
Thu	11/8/2022	07:25	62.6	90
Thu	11/8/2022	07:30	55.1	90
Thu	11/8/2022	07:35	58.1	90
Thu	11/8/2022	07:40	52.7	90

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	07:45	52.9	90
Sun	14/8/2022	07:50	51.2	90
Sun	14/8/2022	07:55	54.3	90
Sun	14/8/2022	08:00	51.1	90
Sun	14/8/2022	08:05	54.3	90
Sun	14/8/2022	08:10	50.3	90
Sun	14/8/2022	08:15	49.6	90
Sun	14/8/2022	08:20	50	90
Sun	14/8/2022	08:25	50.3	90
Sun	14/8/2022	08:30	50.9	90
Sun	14/8/2022	08:35	49.9	90
Sun	14/8/2022	08:40	49.7	90
Sun	14/8/2022	08:45	54.6	90
Sun	14/8/2022	08:50	50.7	90
Sun	14/8/2022	08:55	48.3	90
Sun	14/8/2022	09:00	55.5	90
Sun	14/8/2022	09:05	55.2	90
Sun	14/8/2022	09:10	49.9	90
Sun	14/8/2022	09:15	48.3	90
Sun	14/8/2022	09:20	52.1	90
Sun	14/8/2022	09:25	52.8	90
Sun	14/8/2022	09:30	53.6	90
Sun	14/8/2022	09:35	62.8	90
Sun	14/8/2022	09:40	50.6	90
Sun	14/8/2022	09:45	53	90
Sun	14/8/2022	09:50	54.6	90
Sun	14/8/2022	09:55	52	90
Sun	14/8/2022	10:00	61.1	90
Sun	14/8/2022	10:05	63.4	90
Sun	14/8/2022	10:10	59.8	90
Sun	14/8/2022	10:15	71.5	90
Sun	14/8/2022	10:20	73.6	90
Sun	14/8/2022	10:25	50.7	90
Sun	14/8/2022	10:30	54.5	90
Sun	14/8/2022	10:35	56.2	90
Sun	14/8/2022	10:40	53	90
Sun	14/8/2022	10:45	49.3	90
Sun	14/8/2022	10:50	49.8	90
Sun	14/8/2022	10:55	52.5	90
Sun	14/8/2022	11:00	47.8	90
Sun	14/8/2022	11:05	54.3	90
Sun	14/8/2022	11:10	47.3	90
Sun	14/8/2022	11:15	46.9	90
Sun	14/8/2022	11:20	51.2	90

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Thu	11/8/2022	07:45	50	90
Thu	11/8/2022	07:50	53.9	90
Thu	11/8/2022	07:55	64.2	90
Thu	11/8/2022	08:00	67.3	90
Thu	11/8/2022	08:05	59	90
Thu	11/8/2022	08:10	55.1	90
Thu	11/8/2022	08:15	52.6	90
Thu	11/8/2022	08:20	52.8	90
Thu	11/8/2022	08:25	54.3	90
Thu	11/8/2022	08:30	64.7	90
Thu	11/8/2022	08:35	60.5	90
Thu	11/8/2022	08:40	55.5	90
Thu	11/8/2022	08:45	65.7	90
Thu	11/8/2022	08:50	67.9	90
Thu	11/8/2022	08:55	68	90
Thu	11/8/2022	09:00	66.3	90
Thu	11/8/2022	09:05	60.9	90
Thu	11/8/2022	09:10	56	90
Thu	11/8/2022	09:15	56.7	90
Thu	11/8/2022	09:20	49.9	90
Thu	11/8/2022	09:25	60.3	90
Thu	11/8/2022	09:30	60.5	90
Thu	11/8/2022	09:35	48.9	90
Thu	11/8/2022	09:40	60	90
Thu	11/8/2022	09:45	60	90
Thu	11/8/2022	09:50	62.9	90
Thu	11/8/2022	09:55	67.8	90
Thu	11/8/2022	10:00	66.4	90
Thu	11/8/2022	10:05	59	90
Thu	11/8/2022	10:10	58.7	90
Thu	11/8/2022	10:15	54	90
Thu	11/8/2022	10:20	53.5	90
Thu	11/8/2022	10:25	52.2	90
Thu	11/8/2022	10:30	54.1	90
Thu	11/8/2022	10:35	56.8	90
Thu	11/8/2022	10:40	50.1	90
Thu	11/8/2022	10:45	54.5	90
Thu	11/8/2022	10:50	61.8	90
Thu	11/8/2022	10:55	60.3	90
Thu	11/8/2022	11:00	58.7	90
Thu	11/8/2022	11:05	57.9	90
Thu	11/8/2022	11:10	52.4	90
Thu	11/8/2022	11:15	59.8	90
Thu	11/8/2022	11:20	54.2	90

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	11:25	49.5	90
Sun	14/8/2022	11:30	53	90
Sun	14/8/2022	11:35	52.8	90
Sun	14/8/2022	11:40	53.6	90
Sun	14/8/2022	11:45	53.5	90
Sun	14/8/2022	11:50	47.3	90
Sun	14/8/2022	11:55	48.7	90
Sun	14/8/2022	12:00	48	90
Sun	14/8/2022	12:05	48.4	90
Sun	14/8/2022	12:10	51.7	90
Sun	14/8/2022	12:15	48	90
Sun	14/8/2022	12:20	48.7	90
Sun	14/8/2022	12:25	49.4	90
Sun	14/8/2022	12:30	44.4	90
Sun	14/8/2022	12:35	46.6	90
Sun	14/8/2022	12:40	51.2	90
Sun	14/8/2022	12:45	47.4	90
Sun	14/8/2022	12:50	48	90
Sun	14/8/2022	12:55	48.4	90
Sun	14/8/2022	13:00	48.9	90
Sun	14/8/2022	13:05	52.3	90
Sun	14/8/2022	13:10	51.4	90
Sun	14/8/2022	13:15	53	90
Sun	14/8/2022	13:20	54.2	90
Sun	14/8/2022	13:25	49	90
Sun	14/8/2022	13:30	52.7	90
Sun	14/8/2022	13:35	51	90
Sun	14/8/2022	13:40	51.9	90
Sun	14/8/2022	13:45	59.5	90
Sun	14/8/2022	13:50	49.3	90
Sun	14/8/2022	13:55	50.1	90
Sun	14/8/2022	14:00	45.2	90
Sun	14/8/2022	14:05	44.6	90
Sun	14/8/2022	14:10	44	90
Sun	14/8/2022	14:15	43.7	90
Sun	14/8/2022	14:20	49.1	90
Sun	14/8/2022	14:25	46.9	90
Sun	14/8/2022	14:30	45.8	90
Sun	14/8/2022	14:35	52.1	90
Sun	14/8/2022	14:40	52.5	90
Sun	14/8/2022	14:45	49.4	90
Sun	14/8/2022	14:50	45.4	90
Sun	14/8/2022	14:55	44.7	90
Sun	14/8/2022	15:00	48.3	90

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Thu	11/8/2022	11:25	52.8	90
Thu	11/8/2022	11:30	48.1	90
Thu	11/8/2022	11:35	50.8	90
Thu	11/8/2022	11:40	50.4	90
Thu	11/8/2022	11:45	52.1	90
Thu	11/8/2022	11:50	51	90
Thu	11/8/2022	11:55	51.9	90
Thu	11/8/2022	12:00	55.2	90
Thu	11/8/2022	12:05	60.4	90
Thu	11/8/2022	12:10	49.4	90
Thu	11/8/2022	12:15	49.2	90
Thu	11/8/2022	12:20	61.3	90
Thu	11/8/2022	12:25	50.7	90
Thu	11/8/2022	12:30	48.8	90
Thu	11/8/2022	12:35	54.1	90
Thu	11/8/2022	12:40	65	90
Thu	11/8/2022	12:45	67.8	90
Thu	11/8/2022	12:50	67.9	90
Thu	11/8/2022	12:55	68.1	90
Thu	11/8/2022	13:00	68.1	90
Thu	11/8/2022	13:05	56.1	90
Thu	11/8/2022	13:10	63.9	90
Thu	11/8/2022	13:15	70.9	90
Thu	11/8/2022	13:20	57.4	90
Thu	11/8/2022	13:25	52.5	90
Thu	11/8/2022	13:30	65.8	90
Thu	11/8/2022	13:35	51	90
Thu	11/8/2022	13:40	53	90
Thu	11/8/2022	13:45	54	90
Thu	11/8/2022	13:50	53.1	90
Thu	11/8/2022	13:55	63.9	90
Thu	11/8/2022	14:00	51	90
Thu	11/8/2022	14:05	50.5	90
Thu	11/8/2022	14:10	55.5	90
Thu	11/8/2022	14:15	53.6	90
Thu	11/8/2022	14:20	50.3	90
Thu	11/8/2022	14:25	53.3	90
Thu	11/8/2022	14:30	56.8	90
Thu	11/8/2022	14:35	52	90
Thu	11/8/2022	14:40	61.7	90
Thu	11/8/2022	14:45	67.6	90
Thu	11/8/2022	14:50	67.1	90
Thu	11/8/2022	14:55	64.9	90
Thu	11/8/2022	15:00	63	90

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	15:05	48.2	90
Sun	14/8/2022	15:10	49.5	90
Sun	14/8/2022	15:15	49.7	90
Sun	14/8/2022	15:20	47.5	90
Sun	14/8/2022	15:25	46.8	90
Sun	14/8/2022	15:30	49.1	90
Sun	14/8/2022	15:35	45.3	90
Sun	14/8/2022	15:40	48.1	90
Sun	14/8/2022	15:45	49.5	90
Sun	14/8/2022	15:50	48.1	90
Sun	14/8/2022	15:55	47	90
Sun	14/8/2022	16:00	69.3	90
Sun	14/8/2022	16:05	59.4	90
Sun	14/8/2022	16:10	58.4	90
Sun	14/8/2022	16:15	68.2	90
Sun	14/8/2022	16:20	51.5	90
Sun	14/8/2022	16:25	57.2	90
Sun	14/8/2022	16:30	48.1	90
Sun	14/8/2022	16:35	47.5	90
Sun	14/8/2022	16:40	45.6	90
Sun	14/8/2022	16:45	49.8	90
Sun	14/8/2022	16:50	47.8	90
Sun	14/8/2022	16:55	45.9	90
Sun	14/8/2022	17:00	57.3	90
Sun	14/8/2022	17:05	50.1	90
Sun	14/8/2022	17:10	46.8	90
Sun	14/8/2022	17:15	56.3	90
Sun	14/8/2022	17:20	49.2	90
Sun	14/8/2022	17:25	60.9	90
Sun	14/8/2022	17:30	50.5	90
Sun	14/8/2022	17:35	50.2	90
Sun	14/8/2022	17:40	47.2	90
Sun	14/8/2022	17:45	47.7	90
Sun	14/8/2022	17:50	52.7	90
Sun	14/8/2022	17:55	54.4	90
Sun	14/8/2022	18:00	47.5	90
Sun	14/8/2022	18:05	50.3	90
Sun	14/8/2022	18:10	57	90
Sun	14/8/2022	18:15	49.4	90
Sun	14/8/2022	18:20	52.5	90
Sun	14/8/2022	18:25	62.9	90
Sun	14/8/2022	18:30	53.9	90
Sun	14/8/2022	18:35	46.6	90
Sun	14/8/2022	18:40	50.6	90

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Thu	11/8/2022	15:05	55.5	90
Thu	11/8/2022	15:10	52.1	90
Thu	11/8/2022	15:15	60	90
Thu	11/8/2022	15:20	63.5	90
Thu	11/8/2022	15:25	68.8	90
Thu	11/8/2022	15:30	65.2	90
Thu	11/8/2022	15:35	60.7	90
Thu	11/8/2022	15:40	53	90
Thu	11/8/2022	15:45	50.8	90
Thu	11/8/2022	15:50	48.6	90
Thu	11/8/2022	15:55	53.6	90
Thu	11/8/2022	16:00	55.1	90
Thu	11/8/2022	16:05	50.5	90
Thu	11/8/2022	16:10	62.2	90
Thu	11/8/2022	16:15	71.4	90
Thu	11/8/2022	16:20	62	90
Thu	11/8/2022	16:25	58.7	90
Thu	11/8/2022	16:30	51.7	90
Thu	11/8/2022	16:35	51.2	90
Thu	11/8/2022	16:40	50.9	90
Thu	11/8/2022	16:45	51.1	90
Thu	11/8/2022	16:50	49	90
Thu	11/8/2022	16:55	64.8	90
Thu	11/8/2022	17:00	66	90
Thu	11/8/2022	17:05	52.7	90
Thu	11/8/2022	17:10	51.4	90
Thu	11/8/2022	17:15	50	90
Thu	11/8/2022	17:20	51.7	90
Thu	11/8/2022	17:25	57.9	90
Thu	11/8/2022	17:30	50.4	90
Thu	11/8/2022	17:35	51.9	90
Thu	11/8/2022	17:40	51.5	90
Thu	11/8/2022	17:45	48	90
Thu	11/8/2022	17:50	48.8	90
Thu	11/8/2022	17:55	59	90
Thu	11/8/2022	18:00	55.7	90
Thu	11/8/2022	18:05	51.3	90
Thu	11/8/2022	18:10	50.6	90
Thu	11/8/2022	18:15	48.3	90
Thu	11/8/2022	18:20	50.1	90
Thu	11/8/2022	18:25	58.5	90
Thu	11/8/2022	18:30	45.8	90
Thu	11/8/2022	18:35	50.5	90
Thu	11/8/2022	18:40	46.8	90

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	18:45	53	90
Sun	14/8/2022	18:50	52.6	90
Sun	14/8/2022	18:55	48.7	90
Sun	14/8/2022	19:00	50.2	70
Sun	14/8/2022	19:05	51.2	70
Sun	14/8/2022	19:10	61	70
Sun	14/8/2022	19:15	55.5	70
Sun	14/8/2022	19:20	55.7	70
Sun	14/8/2022	19:25	52.8	70
Sun	14/8/2022	19:30	48	70
Sun	14/8/2022	19:35	47.3	70
Sun	14/8/2022	19:40	53.7	70
Sun	14/8/2022	19:45	49	70
Sun	14/8/2022	19:50	57.5	70
Sun	14/8/2022	19:55	53.4	70
Sun	14/8/2022	20:00	53.1	70
Sun	14/8/2022	20:05	53.6	70
Sun	14/8/2022	20:10	49.2	70
Sun	14/8/2022	20:15	51.9	70
Sun	14/8/2022	20:20	50.6	70
Sun	14/8/2022	20:25	50.2	70
Sun	14/8/2022	20:30	48.4	70
Sun	14/8/2022	20:35	49.3	70
Sun	14/8/2022	20:40	45.4	70
Sun	14/8/2022	20:45	48.8	70
Sun	14/8/2022	20:50	46.4	70
Sun	14/8/2022	20:55	46.4	70
Sun	14/8/2022	21:00	52.5	70
Sun	14/8/2022	21:05	46	70
Sun	14/8/2022	21:10	46.3	70
Sun	14/8/2022	21:15	50.9	70
Sun	14/8/2022	21:20	51.4	70
Sun	14/8/2022	21:25	53.3	70
Sun	14/8/2022	21:30	53.3	70
Sun	14/8/2022	21:35	51.4	70
Sun	14/8/2022	21:40	53.2	70
Sun	14/8/2022	21:45	47.5	70
Sun	14/8/2022	21:50	49.4	70
Sun	14/8/2022	21:55	51.8	70
Sun	14/8/2022	22:00	52.5	70
Sun	14/8/2022	22:05	50.4	70
Sun	14/8/2022	22:10	50.2	70
Sun	14/8/2022	22:15	52	70
Sun	14/8/2022	22:20	53.6	70

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Thu	11/8/2022	18:45	51.4	90
Thu	11/8/2022	18:50	48.1	90
Thu	11/8/2022	18:55	57.7	90
Thu	11/8/2022	19:00	46.9	90
Thu	11/8/2022	19:05	48.1	70
Thu	11/8/2022	19:10	49.7	70
Thu	11/8/2022	19:15	47	70
Thu	11/8/2022	19:20	48.2	70
Thu	11/8/2022	19:25	46.4	70
Thu	11/8/2022	19:30	47	70
Thu	11/8/2022	19:35	50.8	70
Thu	11/8/2022	19:40	50.4	70
Thu	11/8/2022	19:45	48.3	70
Thu	11/8/2022	19:50	50.8	70
Thu	11/8/2022	19:55	51.6	70
Thu	11/8/2022	20:00	50.9	70
Thu	11/8/2022	20:05	50.1	70
Thu	11/8/2022	20:10	55.6	70
Thu	11/8/2022	20:15	51.5	70
Thu	11/8/2022	20:20	50	70
Thu	11/8/2022	20:25	45.6	70
Thu	11/8/2022	20:30	52.2	70
Thu	11/8/2022	20:35	52.8	70
Thu	11/8/2022	20:40	54	70
Thu	11/8/2022	20:45	46.5	70
Thu	11/8/2022	20:50	56.8	70
Thu	11/8/2022	20:55	57.8	70
Thu	11/8/2022	21:00	48.5	70
Thu	11/8/2022	21:05	45.5	70
Thu	11/8/2022	21:10	48.8	70
Thu	11/8/2022	21:15	49.7	70
Thu	11/8/2022	21:20	55.9	70
Thu	11/8/2022	21:25	56.7	70
Thu	11/8/2022	21:30	57.9	70
Thu	11/8/2022	21:35	57.7	70
Thu	11/8/2022	21:40	57.5	70
Thu	11/8/2022	21:45	58.1	70
Thu	11/8/2022	21:50	57.1	70
Thu	11/8/2022	21:55	57.9	70
Thu	11/8/2022	22:00	57.5	70
Thu	11/8/2022	22:05	53.9	55
Thu	11/8/2022	22:10	47.2	55
Thu	11/8/2022	22:15	45.8	55
Thu	11/8/2022	22:20	46	55

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	22:25	48.5	70
Sun	14/8/2022	22:30	56.9	70
Sun	14/8/2022	22:35	47	70
Sun	14/8/2022	22:40	47.8	70
Sun	14/8/2022	22:45	49.4	70
Sun	14/8/2022	22:50	49	70
Sun	14/8/2022	22:55	49.6	70
Sun	14/8/2022	23:00	48.5	70
Sun	14/8/2022	23:05	49.1	70
Sun	14/8/2022	23:10	49.8	70
Sun	14/8/2022	23:15	50.4	70
Sun	14/8/2022	23:20	49.5	70
Sun	14/8/2022	23:25	48.2	70
Sun	14/8/2022	23:30	48	70
Sun	14/8/2022	23:35	49.1	70
Sun	14/8/2022	23:40	48.2	70
Sun	14/8/2022	23:45	48.4	70
Sun	14/8/2022	23:50	49.6	70
Sun	14/8/2022	23:55	61	70
Mon	15/8/2022	00:00	70.6	70
Mon	15/8/2022	00:05	68.5	70
Mon	15/8/2022	00:10	54.6	70
Mon	15/8/2022	00:15	63.2	70
Mon	15/8/2022	00:20	63.6	70
Mon	15/8/2022	00:25	69.7	70
Mon	15/8/2022	00:30	58.9	70
Mon	15/8/2022	00:35	54.9	70
Mon	15/8/2022	00:40	58.8	70
Mon	15/8/2022	00:45	53.1	70
Mon	15/8/2022	00:50	51.1	70
Mon	15/8/2022	00:55	50.8	70
Mon	15/8/2022	01:00	55.7	70
Mon	15/8/2022	01:05	50.3	70
Mon	15/8/2022	01:10	50.7	70
Mon	15/8/2022	01:15	50.6	70
Mon	15/8/2022	01:20	50.8	70
Mon	15/8/2022	01:25	50.9	70
Mon	15/8/2022	01:30	51.2	70
Mon	15/8/2022	01:35	49.9	70
Mon	15/8/2022	01:40	51.1	70
Mon	15/8/2022	01:45	49.9	70
Mon	15/8/2022	01:50	48.3	70
Mon	15/8/2022	01:55	53.5	70
Mon	15/8/2022	02:00	49.1	70

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Thu	11/8/2022	22:25	53.2	55
Thu	11/8/2022	22:30	46.1	55
Thu	11/8/2022	22:35	45.2	55
Thu	11/8/2022	22:40	51.6	55
Thu	11/8/2022	22:45	47.5	55
Thu	11/8/2022	22:50	45.2	55
Thu	11/8/2022	22:55	46.6	55
Thu	11/8/2022	23:00	46.2	55
Thu	11/8/2022	23:05	46.1	55
Thu	11/8/2022	23:10	57.1	55
Thu	11/8/2022	23:15	46.1	55
Thu	11/8/2022	23:20	45.7	55
Thu	11/8/2022	23:25	52.3	55
Thu	11/8/2022	23:30	46.5	55
Thu	11/8/2022	23:35	45.8	55
Thu	11/8/2022	23:40	51.4	55
Thu	11/8/2022	23:45	46.6	55
Thu	11/8/2022	23:50	52.6	55
Thu	11/8/2022	23:55	56.7	55
Fri	12/8/2022	00:00	48.8	55
Fri	12/8/2022	00:05	50.1	55
Fri	12/8/2022	00:10	45.5	55
Fri	12/8/2022	00:15	46.2	55
Fri	12/8/2022	00:20	46.5	55
Fri	12/8/2022	00:25	47.1	55
Fri	12/8/2022	00:30	65.5	55
Fri	12/8/2022	00:35	54.7	55
Fri	12/8/2022	00:40	45.5	55
Fri	12/8/2022	00:45	50	55
Fri	12/8/2022	00:50	47.1	55
Fri	12/8/2022	00:55	46	55
Fri	12/8/2022	01:00	46.2	55
Fri	12/8/2022	01:05	46.1	55
Fri	12/8/2022	01:10	46.5	55
Fri	12/8/2022	01:15	46.4	55
Fri	12/8/2022	01:20	45.9	55
Fri	12/8/2022	01:25	46.8	55
Fri	12/8/2022	01:30	46	55
Fri	12/8/2022	01:35	45.7	55
Fri	12/8/2022	01:40	45.6	55
Fri	12/8/2022	01:45	45.8	55
Fri	12/8/2022	01:50	46.2	55
Fri	12/8/2022	01:55	46.5	55
Fri	12/8/2022	02:00	45.5	55

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Mon	15/8/2022	02:05	48.4	70
Mon	15/8/2022	02:10	57.3	70
Mon	15/8/2022	02:15	47.7	70
Mon	15/8/2022	02:20	48.6	70
Mon	15/8/2022	02:25	46.5	70
Mon	15/8/2022	02:30	47.1	70
Mon	15/8/2022	02:35	47	70
Mon	15/8/2022	02:40	47.4	70
Mon	15/8/2022	02:45	47.2	70
Mon	15/8/2022	02:50	47.5	70
Mon	15/8/2022	02:55	47	70
Mon	15/8/2022	03:00	46.9	70
Mon	15/8/2022	03:05	52.9	70
Mon	15/8/2022	03:10	72	70
Mon	15/8/2022	03:15	61.1	70
Mon	15/8/2022	03:20	68.8	70
Mon	15/8/2022	03:25	68.5	70
Mon	15/8/2022	03:30	68.5	70
Mon	15/8/2022	03:35	73.7	70
Mon	15/8/2022	03:40	71.2	70
Mon	15/8/2022	03:45	70.4	70
Mon	15/8/2022	03:50	71.3	70
Mon	15/8/2022	03:55	63.4	70
Mon	15/8/2022	04:00	63.3	70
Mon	15/8/2022	04:05	62.4	70
Mon	15/8/2022	04:10	65.7	70
Mon	15/8/2022	04:15	57.4	70
Mon	15/8/2022	04:20	65.4	70
Mon	15/8/2022	04:25	58.9	70
Mon	15/8/2022	04:30	62.3	70
Mon	15/8/2022	04:35	56	70
Mon	15/8/2022	04:40	61.1	70
Mon	15/8/2022	04:45	55.6	70
Mon	15/8/2022	04:50	57.8	70
Mon	15/8/2022	04:55	53.8	70
Mon	15/8/2022	05:00	54.7	70
Mon	15/8/2022	05:05	53.2	70
Mon	15/8/2022	05:10	59.2	70
Mon	15/8/2022	05:15	53	70
Mon	15/8/2022	05:20	52.4	70
Mon	15/8/2022	05:25	52	70
Mon	15/8/2022	05:30	52.6	70
Mon	15/8/2022	05:35	52.5	70
Mon	15/8/2022	05:40	51.9	70

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Fri	12/8/2022	02:05	49.4	55
Fri	12/8/2022	02:10	45.6	55
Fri	12/8/2022	02:15	48.6	55
Fri	12/8/2022	02:20	46.1	55
Fri	12/8/2022	02:25	46.4	55
Fri	12/8/2022	02:30	48.5	55
Fri	12/8/2022	02:35	48.3	55
Fri	12/8/2022	02:40	45.7	55
Fri	12/8/2022	02:45	45.5	55
Fri	12/8/2022	02:50	45.7	55
Fri	12/8/2022	02:55	45.9	55
Fri	12/8/2022	03:00	45.9	55
Fri	12/8/2022	03:05	45.8	55
Fri	12/8/2022	03:10	45.9	55
Fri	12/8/2022	03:15	45.7	55
Fri	12/8/2022	03:20	45.5	55
Fri	12/8/2022	03:25	45.9	55
Fri	12/8/2022	03:30	46.3	55
Fri	12/8/2022	03:35	46.2	55
Fri	12/8/2022	03:40	46.1	55
Fri	12/8/2022	03:45	46.1	55
Fri	12/8/2022	03:50	45.6	55
Fri	12/8/2022	03:55	45.5	55
Fri	12/8/2022	04:00	45.6	55
Fri	12/8/2022	04:05	45.6	55
Fri	12/8/2022	04:10	46.4	55
Fri	12/8/2022	04:15	46.3	55
Fri	12/8/2022	04:20	46	55
Fri	12/8/2022	04:25	45.5	55
Fri	12/8/2022	04:30	48.4	55
Fri	12/8/2022	04:35	45.7	55
Fri	12/8/2022	04:40	51.1	55
Fri	12/8/2022	04:45	51.1	55
Fri	12/8/2022	04:50	48.1	55
Fri	12/8/2022	04:55	45.9	55
Fri	12/8/2022	05:00	63.1	55
Fri	12/8/2022	05:05	53.7	55
Fri	12/8/2022	05:10	50.1	55
Fri	12/8/2022	05:15	57.5	55
Fri	12/8/2022	05:20	55.8	55
Fri	12/8/2022	05:25	51.1	55
Fri	12/8/2022	05:30	56.6	55
Fri	12/8/2022	05:35	48.2	55
Fri	12/8/2022	05:40	61.5	55

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Mon	15/8/2022	05:45	52.1	70
Mon	15/8/2022	05:50	52.1	70
Mon	15/8/2022	05:55	52.7	70
Mon	15/8/2022	06:00	52	70
Mon	15/8/2022	06:05	57.8	70
Mon	15/8/2022	06:10	53.8	70
Mon	15/8/2022	06:15	52.2	70
Mon	15/8/2022	06:20	52.4	70
Mon	15/8/2022	06:25	51.3	70
Mon	15/8/2022	06:30	47.1	70
Mon	15/8/2022	06:35	47.5	70
Mon	15/8/2022	06:40	47.2	70
Mon	15/8/2022	06:45	46.2	70
Mon	15/8/2022	06:50	46.4	70
Mon	15/8/2022	06:55	50	70
Mon	15/8/2022	07:00	47.7	90
Mon	15/8/2022	07:05	46.9	90
Mon	15/8/2022	07:10	48.2	90
Mon	15/8/2022	07:15	50.4	90
Mon	15/8/2022	07:20	48.1	90
Mon	15/8/2022	07:25	48.5	90
Mon	15/8/2022	07:30	48.1	90
Mon	15/8/2022	07:35	48.3	90
Mon	15/8/2022	07:40	49.8	90
Mon	15/8/2022	07:45	49.6	90
Mon	15/8/2022	07:50	50.1	90
Mon	15/8/2022	07:55	51.7	90
Mon	15/8/2022	08:00	49.6	90
Mon	15/8/2022	08:05	50.5	90
Mon	15/8/2022	08:10	49.8	90
Mon	15/8/2022	08:15	49.5	90
Mon	15/8/2022	08:20	51.6	90
Mon	15/8/2022	08:25	56.5	90
Mon	15/8/2022	08:30	52.5	90
Mon	15/8/2022	08:35	51	90
Mon	15/8/2022	08:40	54.9	90
Mon	15/8/2022	08:45	52.9	90
Mon	15/8/2022	08:50	53.7	90
Mon	15/8/2022	08:55	62.2	90
Mon	15/8/2022	09:00	53.1	90
Mon	15/8/2022	09:05	51.7	90
Mon	15/8/2022	09:10	49.7	90
Mon	15/8/2022	09:15	49.4	90
Mon	15/8/2022	09:20	49.9	90

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Fri	12/8/2022	05:45	60.1	55
Fri	12/8/2022	05:50	49.2	55
Fri	12/8/2022	05:55	54.8	55
Fri	12/8/2022	06:00	57.4	55
Fri	12/8/2022	06:05	51	55
Fri	12/8/2022	06:10	55.1	55
Fri	12/8/2022	06:15	55.9	55
Fri	12/8/2022	06:20	52.8	55
Fri	12/8/2022	06:25	52.7	55
Fri	12/8/2022	06:30	58.1	55
Fri	12/8/2022	06:35	50.8	55
Fri	12/8/2022	06:40	53.3	55
Fri	12/8/2022	06:45	53.8	55
Fri	12/8/2022	06:50	56.3	55
Fri	12/8/2022	06:55	53.9	55
Fri	12/8/2022	07:00	50.3	55
Fri	12/8/2022	07:05	55.7	90
Fri	12/8/2022	07:10	52.2	90
Fri	12/8/2022	07:15	54.7	90
Fri	12/8/2022	07:20	60.7	90
Fri	12/8/2022	07:25	59.9	90
Fri	12/8/2022	07:30	51.9	90
Fri	12/8/2022	07:35	51.6	90
Fri	12/8/2022	07:40	53.1	90
Fri	12/8/2022	07:45	54.7	90
Fri	12/8/2022	07:50	52.8	90
Fri	12/8/2022	07:55	55.7	90
Fri	12/8/2022	08:00	55.7	90
Fri	12/8/2022	08:05	56.6	90
Fri	12/8/2022	08:10	53.2	90
Fri	12/8/2022	08:15	49.3	90
Fri	12/8/2022	08:20	48.3	90
Fri	12/8/2022	08:25	53	90
Fri	12/8/2022	08:30	58.3	90
Fri	12/8/2022	08:35	51.4	90
Fri	12/8/2022	08:40	52.2	90
Fri	12/8/2022	08:45	58	90
Fri	12/8/2022	08:50	56.4	90
Fri	12/8/2022	08:55	61.9	90
Fri	12/8/2022	09:00	59.5	90
Fri	12/8/2022	09:05	59	90
Fri	12/8/2022	09:10	62.6	90
Fri	12/8/2022	09:15	55.7	90
Fri	12/8/2022	09:20	55.6	90

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Mon	15/8/2022	09:25	51	90
Mon	15/8/2022	09:30	48.4	90
Mon	15/8/2022	09:35	50.5	90
Mon	15/8/2022	09:40	52.1	90
Mon	15/8/2022	09:45	52.5	90
Mon	15/8/2022	09:50	50.4	90
Mon	15/8/2022	09:55	50.9	90
Mon	15/8/2022	10:00	50.4	90
Mon	15/8/2022	10:05	54.5	90
Mon	15/8/2022	10:10	51.2	90
Mon	15/8/2022	10:15	52.7	90
Mon	15/8/2022	10:20	51.8	90
Mon	15/8/2022	10:25	51.3	90
Mon	15/8/2022	10:30	52.1	90
Mon	15/8/2022	10:35	50.7	90
Mon	15/8/2022	10:40	55.7	90
Mon	15/8/2022	10:45	58.6	90
Mon	15/8/2022	10:50	59.6	90
Mon	15/8/2022	10:55	51.8	90
Mon	15/8/2022	11:00	51	90
Mon	15/8/2022	11:05	52	90
Mon	15/8/2022	11:10	52.2	90
Mon	15/8/2022	11:15	51.3	90
Mon	15/8/2022	11:20	51	90
Mon	15/8/2022	11:25	52.7	90
Mon	15/8/2022	11:30	50.3	90
Mon	15/8/2022	11:35	50.3	90
Mon	15/8/2022	11:40	50.3	90
Mon	15/8/2022	11:45	56.4	90
Mon	15/8/2022	11:50	52.3	90
Mon	15/8/2022	11:55	48.6	90
Mon	15/8/2022	12:00	49.1	90
Mon	15/8/2022	12:05	51.6	90
Mon	15/8/2022	12:10	49	90
Mon	15/8/2022	12:15	50.9	90
Mon	15/8/2022	12:20	49.9	90
Mon	15/8/2022	12:25	49.2	90
Mon	15/8/2022	12:30	50	90
Mon	15/8/2022	12:35	49.9	90
Mon	15/8/2022	12:40	54.2	90
Mon	15/8/2022	12:45	49.7	90
Mon	15/8/2022	12:50	49.2	90
Mon	15/8/2022	12:55	49.3	90
Mon	15/8/2022	13:00	50.3	90

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Fri	12/8/2022	09:25	55	90
Fri	12/8/2022	09:30	64.4	90
Fri	12/8/2022	09:35	62.7	90
Fri	12/8/2022	09:40	67.7	90
Fri	12/8/2022	09:45	60.1	90
Fri	12/8/2022	09:50	59.1	90
Fri	12/8/2022	09:55	50.8	90
Fri	12/8/2022	10:00	56	90
Fri	12/8/2022	10:05	57.1	90
Fri	12/8/2022	10:10	56.7	90
Fri	12/8/2022	10:15	52.1	90
Fri	12/8/2022	10:20	54.2	90
Fri	12/8/2022	10:25	50.7	90
Fri	12/8/2022	10:30	54	90
Fri	12/8/2022	10:35	58.2	90
Fri	12/8/2022	10:40	51.2	90
Fri	12/8/2022	10:45	54.4	90
Fri	12/8/2022	10:50	50	90
Fri	12/8/2022	10:55	61.3	90
Fri	12/8/2022	11:00	49.5	90
Fri	12/8/2022	11:05	52	90
Fri	12/8/2022	11:10	46.3	90
Fri	12/8/2022	11:15	47	90
Fri	12/8/2022	11:20	52.9	90
Fri	12/8/2022	11:25	57.8	90
Fri	12/8/2022	11:30	49.9	90
Fri	12/8/2022	11:35	57.1	90
Fri	12/8/2022	11:40	50	90
Fri	12/8/2022	11:45	52.5	90
Fri	12/8/2022	11:50	49.3	90
Fri	12/8/2022	11:55	51.2	90
Fri	12/8/2022	12:00	51.5	90
Fri	12/8/2022	12:05	58.1	90
Fri	12/8/2022	12:10	56.2	90
Fri	12/8/2022	12:15	56.2	90
Fri	12/8/2022	12:20	52.2	90
Fri	12/8/2022	12:25	54.2	90
Fri	12/8/2022	12:30	55	90
Fri	12/8/2022	12:35	54.5	90
Fri	12/8/2022	12:40	54	90
Fri	12/8/2022	12:45	67	90
Fri	12/8/2022	12:50	56.5	90
Fri	12/8/2022	12:55	63.4	90
Fri	12/8/2022	13:00	60.8	90

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Mon	15/8/2022	13:05	50.8	90
Mon	15/8/2022	13:10	46.3	90
Mon	15/8/2022	13:15	53.8	90
Mon	15/8/2022	13:20	47.5	90
Mon	15/8/2022	13:25	46	90
Mon	15/8/2022	13:30	52.7	90
Mon	15/8/2022	13:35	46	90
Mon	15/8/2022	13:40	45.5	90
Mon	15/8/2022	13:45	48.7	90
Mon	15/8/2022	13:50	46	90
Mon	15/8/2022	13:55	47.9	90
Mon	15/8/2022	14:00	46.8	90
Mon	15/8/2022	14:05	46.4	90
Mon	15/8/2022	14:10	49.5	90
Mon	15/8/2022	14:15	47.2	90
Mon	15/8/2022	14:20	47.9	90
Mon	15/8/2022	14:25	52.3	90
Mon	15/8/2022	14:30	47.6	90
Mon	15/8/2022	14:35	52.1	90
Mon	15/8/2022	14:40	48	90
Mon	15/8/2022	14:45	49.7	90
Mon	15/8/2022	14:50	47.8	90
Mon	15/8/2022	14:55	47.4	90
Mon	15/8/2022	15:00	47.8	90
Mon	15/8/2022	15:05	46.4	90
Mon	15/8/2022	15:10	48.3	90
Mon	15/8/2022	15:15	47.1	90
Mon	15/8/2022	15:20	49	90
Mon	15/8/2022	15:25	47.1	90
Mon	15/8/2022	15:30	51.1	90
Mon	15/8/2022	15:35	54.1	90
Mon	15/8/2022	15:40	46.9	90
Mon	15/8/2022	15:45	58.3	90
Mon	15/8/2022	15:50	45.9	90
Mon	15/8/2022	15:55	46.1	90
Mon	15/8/2022	16:00	53.7	90
Mon	15/8/2022	16:05	45.3	90
Mon	15/8/2022	16:10	50	90
Mon	15/8/2022	16:15	46	90
Mon	15/8/2022	16:20	46.9	90
Mon	15/8/2022	16:25	47	90
Mon	15/8/2022	16:30	47.8	90
Mon	15/8/2022	16:35	51.6	90
Mon	15/8/2022	16:40	49	90

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Fri	12/8/2022	13:05	57.1	90
Fri	12/8/2022	13:10	61.8	90
Fri	12/8/2022	13:15	56.7	90
Fri	12/8/2022	13:20	55	90
Fri	12/8/2022	13:25	59.7	90
Fri	12/8/2022	13:30	65.4	90
Fri	12/8/2022	13:35	51.7	90
Fri	12/8/2022	13:40	49.6	90
Fri	12/8/2022	13:45	48.4	90
Fri	12/8/2022	13:50	50.2	90
Fri	12/8/2022	13:55	57.6	90
Fri	12/8/2022	14:00	58.9	90
Fri	12/8/2022	14:05	70.8	90
Fri	12/8/2022	14:10	61.6	90
Fri	12/8/2022	14:15	57.4	90
Fri	12/8/2022	14:20	51.7	90
Fri	12/8/2022	14:25	55.3	90
Fri	12/8/2022	14:30	57.4	90
Fri	12/8/2022	14:35	49.8	90
Fri	12/8/2022	14:40	56.3	90
Fri	12/8/2022	14:45	50.2	90
Fri	12/8/2022	14:50	51	90
Fri	12/8/2022	14:55	51.7	90
Fri	12/8/2022	15:00	50.2	90
Fri	12/8/2022	15:05	56.9	90
Fri	12/8/2022	15:10	57.4	90
Fri	12/8/2022	15:15	52.2	90
Fri	12/8/2022	15:20	51.6	90
Fri	12/8/2022	15:25	51.3	90
Fri	12/8/2022	15:30	60.3	90
Fri	12/8/2022	15:35	62.3	90
Fri	12/8/2022	15:40	61.1	90
Fri	12/8/2022	15:45	61.2	90
Fri	12/8/2022	15:50	60.9	90
Fri	12/8/2022	15:55	61.3	90
Fri	12/8/2022	16:00	61.9	90
Fri	12/8/2022	16:05	62.3	90
Fri	12/8/2022	16:10	61.6	90
Fri	12/8/2022	16:15	61.9	90
Fri	12/8/2022	16:20	61.4	90
Fri	12/8/2022	16:25	58.5	90
Fri	12/8/2022	16:30	54.7	90
Fri	12/8/2022	16:35	55.3	90
Fri	12/8/2022	16:40	53.7	90

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Mon	15/8/2022	16:45	46.2	90
Mon	15/8/2022	16:50	47	90
Mon	15/8/2022	16:55	47.1	90
Mon	15/8/2022	17:00	50.4	90
Mon	15/8/2022	17:05	48.3	90
Mon	15/8/2022	17:10	44.5	90
Mon	15/8/2022	17:15	48.6	90
Mon	15/8/2022	17:20	56.7	90
Mon	15/8/2022	17:25	47.5	90
Mon	15/8/2022	17:30	51.2	90
Mon	15/8/2022	17:35	46.6	90
Mon	15/8/2022	17:40	49.2	90
Mon	15/8/2022	17:45	46.8	90
Mon	15/8/2022	17:50	47.1	90
Mon	15/8/2022	17:55	46.6	90
Mon	15/8/2022	18:00	47.1	90
Mon	15/8/2022	18:05	49.3	90
Mon	15/8/2022	18:10	46.6	90
Mon	15/8/2022	18:15	45.9	90
Mon	15/8/2022	18:20	46	90
Mon	15/8/2022	18:25	47.4	90
Mon	15/8/2022	18:30	48.7	90
Mon	15/8/2022	18:35	49.7	90
Mon	15/8/2022	18:40	50	90
Mon	15/8/2022	18:45	52.4	90
Mon	15/8/2022	18:50	51.2	90
Mon	15/8/2022	18:55	53.6	90
Mon	15/8/2022	19:00	47.2	70
Mon	15/8/2022	19:05	51.4	70
Mon	15/8/2022	19:10	51.2	70
Mon	15/8/2022	19:15	52.7	70
Mon	15/8/2022	19:20	48.2	70
Mon	15/8/2022	19:25	49	70
Mon	15/8/2022	19:30	47.1	70
Mon	15/8/2022	19:35	46.4	70
Mon	15/8/2022	19:40	51.3	70
Mon	15/8/2022	19:45	45.8	70
Mon	15/8/2022	19:50	48.8	70
Mon	15/8/2022	19:55	54.6	70
Mon	15/8/2022	20:00	46.6	70
Mon	15/8/2022	20:05	53.5	70
Mon	15/8/2022	20:10	48.9	70
Mon	15/8/2022	20:15	50.9	70
Mon	15/8/2022	20:20	44.8	70

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Fri	12/8/2022	16:45	50.6	90
Fri	12/8/2022	16:50	50.8	90
Fri	12/8/2022	16:55	55.3	90
Fri	12/8/2022	17:00	52.2	90
Fri	12/8/2022	17:05	50.8	90
Fri	12/8/2022	17:10	53.9	90
Fri	12/8/2022	17:15	52.5	90
Fri	12/8/2022	17:20	51.6	90
Fri	12/8/2022	17:25	56.2	90
Fri	12/8/2022	17:30	52.6	90
Fri	12/8/2022	17:35	52	90
Fri	12/8/2022	17:40	52.3	90
Fri	12/8/2022	17:45	53.3	90
Fri	12/8/2022	17:50	53.2	90
Fri	12/8/2022	17:55	51.4	90
Fri	12/8/2022	18:00	56.5	90
Fri	12/8/2022	18:05	48.1	90
Fri	12/8/2022	18:10	47.8	90
Fri	12/8/2022	18:15	54.1	90
Fri	12/8/2022	18:20	47.5	90
Fri	12/8/2022	18:25	60.2	90
Fri	12/8/2022	18:30	51.9	90
Fri	12/8/2022	18:35	50.4	90
Fri	12/8/2022	18:40	51.2	90
Fri	12/8/2022	18:45	51	90
Fri	12/8/2022	18:50	54.3	90
Fri	12/8/2022	18:55	54.4	90
Fri	12/8/2022	19:00	54.3	90
Fri	12/8/2022	19:05	50.7	70
Fri	12/8/2022	19:10	50.6	70
Fri	12/8/2022	19:15	49.3	70
Fri	12/8/2022	19:20	53.6	70
Fri	12/8/2022	19:25	49.1	70
Fri	12/8/2022	19:30	48.1	70
Fri	12/8/2022	19:35	48.5	70
Fri	12/8/2022	19:40	48.2	70
Fri	12/8/2022	19:45	47.8	70
Fri	12/8/2022	19:50	48.2	70
Fri	12/8/2022	19:55	47.2	70
Fri	12/8/2022	20:00	48	70
Fri	12/8/2022	20:05	45.8	70
Fri	12/8/2022	20:10	47.1	70
Fri	12/8/2022	20:15	48.3	70
Fri	12/8/2022	20:20	47.4	70

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Mon	15/8/2022	20:25	44.3	70
Mon	15/8/2022	20:30	47.3	70
Mon	15/8/2022	20:35	45.2	70
Mon	15/8/2022	20:40	47.1	70
Mon	15/8/2022	20:45	52.8	70
Mon	15/8/2022	20:50	47.4	70
Mon	15/8/2022	20:55	47.2	70
Mon	15/8/2022	21:00	46.6	70
Mon	15/8/2022	21:05	47.4	70
Mon	15/8/2022	21:10	46.9	70
Mon	15/8/2022	21:15	47.8	70
Mon	15/8/2022	21:20	47.3	70
Mon	15/8/2022	21:25	48.9	70
Mon	15/8/2022	21:30	49.6	70
Mon	15/8/2022	21:35	48.9	70
Mon	15/8/2022	21:40	50	70
Mon	15/8/2022	21:45	53.1	70
Mon	15/8/2022	21:50	50.6	70
Mon	15/8/2022	21:55	49.1	70
Mon	15/8/2022	22:00	48.8	70
Mon	15/8/2022	22:05	63.7	70
Mon	15/8/2022	22:10	54.2	70
Mon	15/8/2022	22:15	53.9	70
Mon	15/8/2022	22:20	54	70
Mon	15/8/2022	22:25	53.5	70
Mon	15/8/2022	22:30	53.5	70
Mon	15/8/2022	22:35	54.1	70
Mon	15/8/2022	22:40	53.6	70
Mon	15/8/2022	22:45	54.6	70
Mon	15/8/2022	22:50	53.6	70
Mon	15/8/2022	22:55	53.6	70
Mon	15/8/2022	23:00	52.8	70
Mon	15/8/2022	23:05	55.1	70
Mon	15/8/2022	23:10	53.8	70
Mon	15/8/2022	23:15	52.9	70
Mon	15/8/2022	23:20	53	70
Mon	15/8/2022	23:25	53.7	70
Mon	15/8/2022	23:30	53.1	70
Mon	15/8/2022	23:35	53.1	70
Mon	15/8/2022	23:40	53	70
Mon	15/8/2022	23:45	53.4	70
Mon	15/8/2022	23:50	52.5	70
Mon	15/8/2022	23:55	49.2	70
Tue	16/8/2022	00:00	55.7	70

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Fri	12/8/2022	20:25	48.9	70
Fri	12/8/2022	20:30	46.8	70
Fri	12/8/2022	20:35	46.9	70
Fri	12/8/2022	20:40	51.4	70
Fri	12/8/2022	20:45	62	70
Fri	12/8/2022	20:50	60.8	70
Fri	12/8/2022	20:55	53.5	70
Fri	12/8/2022	21:00	49.1	70
Fri	12/8/2022	21:05	49.1	70
Fri	12/8/2022	21:10	46.3	70
Fri	12/8/2022	21:15	47.1	70
Fri	12/8/2022	21:20	47.4	70
Fri	12/8/2022	21:25	46.2	70
Fri	12/8/2022	21:30	49.3	70
Fri	12/8/2022	21:35	48.8	70
Fri	12/8/2022	21:40	49.2	70
Fri	12/8/2022	21:45	50.2	70
Fri	12/8/2022	21:50	55.9	70
Fri	12/8/2022	21:55	47.6	70
Fri	12/8/2022	22:00	48.2	70
Fri	12/8/2022	22:05	58.8	55
Fri	12/8/2022	22:10	61.5	55
Fri	12/8/2022	22:15	56.8	55
Fri	12/8/2022	22:20	65.4	55
Fri	12/8/2022	22:25	57.5	55
Fri	12/8/2022	22:30	57.7	55
Fri	12/8/2022	22:35	47.5	55
Fri	12/8/2022	22:40	66.4	55
Fri	12/8/2022	22:45	51.9	55
Fri	12/8/2022	22:50	50.2	55
Fri	12/8/2022	22:55	48.4	55
Fri	12/8/2022	23:00	54.8	55
Fri	12/8/2022	23:05	48.8	55
Fri	12/8/2022	23:10	46.9	55
Fri	12/8/2022	23:15	48.1	55
Fri	12/8/2022	23:20	51.6	55
Fri	12/8/2022	23:25	46.7	55
Fri	12/8/2022	23:30	47.5	55
Fri	12/8/2022	23:35	45.3	55
Fri	12/8/2022	23:40	45.8	55
Fri	12/8/2022	23:45	45.5	55
Fri	12/8/2022	23:50	45.1	55
Fri	12/8/2022	23:55	45	55
Sat	13/8/2022	00:00	46.2	55

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Tue	16/8/2022	00:05	48.6	70
Tue	16/8/2022	00:10	48.2	70
Tue	16/8/2022	00:15	47.7	70
Tue	16/8/2022	00:20	47.9	70
Tue	16/8/2022	00:25	46.5	70
Tue	16/8/2022	00:30	47.8	70
Tue	16/8/2022	00:35	48.3	70
Tue	16/8/2022	00:40	50.2	70
Tue	16/8/2022	00:45	48.6	70
Tue	16/8/2022	00:50	47.8	70
Tue	16/8/2022	00:55	47	70
Tue	16/8/2022	01:00	50.3	70
Tue	16/8/2022	01:05	46.5	70
Tue	16/8/2022	01:10	46	70
Tue	16/8/2022	01:15	59	70
Tue	16/8/2022	01:20	47.6	70
Tue	16/8/2022	01:25	46.5	70
Tue	16/8/2022	01:30	46.8	70
Tue	16/8/2022	01:35	47.2	70
Tue	16/8/2022	01:40	45.7	70
Tue	16/8/2022	01:45	46.4	70
Tue	16/8/2022	01:50	46.8	70
Tue	16/8/2022	01:55	47.9	70
Tue	16/8/2022	02:00	47.5	70
Tue	16/8/2022	02:05	47.5	70
Tue	16/8/2022	02:10	47.8	70
Tue	16/8/2022	02:15	48.8	70
Tue	16/8/2022	02:20	47.4	70
Tue	16/8/2022	02:25	48.2	70
Tue	16/8/2022	02:30	47.4	70
Tue	16/8/2022	02:35	48.4	70
Tue	16/8/2022	02:40	49.6	70
Tue	16/8/2022	02:45	48.1	70
Tue	16/8/2022	02:50	48.9	70
Tue	16/8/2022	02:55	48.2	70
Tue	16/8/2022	03:00	48.1	70
Tue	16/8/2022	03:05	48.6	70
Tue	16/8/2022	03:10	48.5	70
Tue	16/8/2022	03:15	48.5	70
Tue	16/8/2022	03:20	49.2	70
Tue	16/8/2022	03:25	48.3	70
Tue	16/8/2022	03:30	48.6	70
Tue	16/8/2022	03:35	58.9	70
Tue	16/8/2022	03:40	47.6	70

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Sat	13/8/2022	00:05	45.7	55
Sat	13/8/2022	00:10	46.3	55
Sat	13/8/2022	00:15	45.8	55
Sat	13/8/2022	00:20	46	55
Sat	13/8/2022	00:25	45.5	55
Sat	13/8/2022	00:30	45.4	55
Sat	13/8/2022	00:35	45.9	55
Sat	13/8/2022	00:40	46	55
Sat	13/8/2022	00:45	46.1	55
Sat	13/8/2022	00:50	46	55
Sat	13/8/2022	00:55	46.3	55
Sat	13/8/2022	01:00	45.8	55
Sat	13/8/2022	01:05	45.6	55
Sat	13/8/2022	01:10	45.9	55
Sat	13/8/2022	01:15	45.9	55
Sat	13/8/2022	01:20	45.6	55
Sat	13/8/2022	01:25	45.2	55
Sat	13/8/2022	01:30	45.4	55
Sat	13/8/2022	01:35	45.4	55
Sat	13/8/2022	01:40	45.7	55
Sat	13/8/2022	01:45	45.6	55
Sat	13/8/2022	01:50	45.5	55
Sat	13/8/2022	01:55	45.9	55
Sat	13/8/2022	02:00	45.5	55
Sat	13/8/2022	02:05	45.6	55
Sat	13/8/2022	02:10	45	55
Sat	13/8/2022	02:15	45	55
Sat	13/8/2022	02:20	45.5	55
Sat	13/8/2022	02:25	45.5	55
Sat	13/8/2022	02:30	45.2	55
Sat	13/8/2022	02:35	45.2	55
Sat	13/8/2022	02:40	44.8	55
Sat	13/8/2022	02:45	46.1	55
Sat	13/8/2022	02:50	45.5	55
Sat	13/8/2022	02:55	45.9	55
Sat	13/8/2022	03:00	46	55
Sat	13/8/2022	03:05	46.4	55
Sat	13/8/2022	03:10	46.9	55
Sat	13/8/2022	03:15	47.7	55
Sat	13/8/2022	03:20	45.9	55
Sat	13/8/2022	03:25	45.1	55
Sat	13/8/2022	03:30	45.6	55
Sat	13/8/2022	03:35	46	55
Sat	13/8/2022	03:40	46.6	55

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Tue	16/8/2022	03:45	45.6	70
Tue	16/8/2022	03:50	46.4	70
Tue	16/8/2022	03:55	48.3	70
Tue	16/8/2022	04:00	46.9	70
Tue	16/8/2022	04:05	48	70
Tue	16/8/2022	04:10	46.3	70
Tue	16/8/2022	04:15	47.4	70
Tue	16/8/2022	04:20	48.2	70
Tue	16/8/2022	04:25	47.5	70
Tue	16/8/2022	04:30	47.7	70
Tue	16/8/2022	04:35	50.6	70
Tue	16/8/2022	04:40	50.4	70
Tue	16/8/2022	04:45	53.1	70
Tue	16/8/2022	04:50	46.1	70
Tue	16/8/2022	04:55	46.7	70
Tue	16/8/2022	05:00	45.4	70
Tue	16/8/2022	05:05	45.7	70
Tue	16/8/2022	05:10	46.2	70
Tue	16/8/2022	05:15	46.6	70
Tue	16/8/2022	05:20	45.9	70
Tue	16/8/2022	05:25	45.3	70
Tue	16/8/2022	05:30	46	70
Tue	16/8/2022	05:35	46.5	70
Tue	16/8/2022	05:40	46.7	70
Tue	16/8/2022	05:45	46.6	70
Tue	16/8/2022	05:50	46.6	70
Tue	16/8/2022	05:55	47.5	70
Tue	16/8/2022	06:00	46.7	70
Tue	16/8/2022	06:05	46.2	70
Tue	16/8/2022	06:10	45.9	70
Tue	16/8/2022	06:15	46.1	70
Tue	16/8/2022	06:20	46.6	70
Tue	16/8/2022	06:25	46.2	70
Tue	16/8/2022	06:30	45.9	70
Tue	16/8/2022	06:35	48.2	70
Tue	16/8/2022	06:40	45.8	70
Tue	16/8/2022	06:45	46.2	70
Tue	16/8/2022	06:50	45.9	70
Tue	16/8/2022	06:55	46.6	70
Tue	16/8/2022	07:00	56	90
Tue	16/8/2022	07:05	61.4	90
Tue	16/8/2022	07:10	50.3	90
Tue	16/8/2022	07:15	47	90
Tue	16/8/2022	07:20	47.1	90

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Sat	13/8/2022	03:45	50.2	55
Sat	13/8/2022	03:50	47.4	55
Sat	13/8/2022	03:55	46.2	55
Sat	13/8/2022	04:00	45.5	55
Sat	13/8/2022	04:05	45.6	55
Sat	13/8/2022	04:10	45.8	55
Sat	13/8/2022	04:15	45.7	55
Sat	13/8/2022	04:20	45.4	55
Sat	13/8/2022	04:25	47	55
Sat	13/8/2022	04:30	49.6	55
Sat	13/8/2022	04:35	46.3	55
Sat	13/8/2022	04:40	46.3	55
Sat	13/8/2022	04:45	46	55
Sat	13/8/2022	04:50	45.6	55
Sat	13/8/2022	04:55	45.3	55
Sat	13/8/2022	05:00	45.8	55
Sat	13/8/2022	05:05	46.2	55
Sat	13/8/2022	05:10	47	55
Sat	13/8/2022	05:15	46.4	55
Sat	13/8/2022	05:20	46.1	55
Sat	13/8/2022	05:25	47	55
Sat	13/8/2022	05:30	46.6	55
Sat	13/8/2022	05:35	47.1	55
Sat	13/8/2022	05:40	47.8	55
Sat	13/8/2022	05:45	48.1	55
Sat	13/8/2022	05:50	54.4	55
Sat	13/8/2022	05:55	48.6	55
Sat	13/8/2022	06:00	50.1	55
Sat	13/8/2022	06:05	51	55
Sat	13/8/2022	06:10	51.4	55
Sat	13/8/2022	06:15	50.2	55
Sat	13/8/2022	06:20	49.9	55
Sat	13/8/2022	06:25	55.8	55
Sat	13/8/2022	06:30	51.8	55
Sat	13/8/2022	06:35	51.5	55
Sat	13/8/2022	06:40	49.3	55
Sat	13/8/2022	06:45	50.2	55
Sat	13/8/2022	06:50	50.2	55
Sat	13/8/2022	06:55	51.3	55
Sat	13/8/2022	07:00	49.7	55
Sat	13/8/2022	07:05	52	90
Sat	13/8/2022	07:10	53.9	90
Sat	13/8/2022	07:15	53.8	90
Sat	13/8/2022	07:20	49.7	90

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Tue	16/8/2022	07:25	47.3	90
Tue	16/8/2022	07:30	48.6	90
Tue	16/8/2022	07:35	47.8	90
Tue	16/8/2022	07:40	47.9	90
Tue	16/8/2022	07:45	47.6	90
Tue	16/8/2022	07:50	50.1	90
Tue	16/8/2022	07:55	50.1	90
Tue	16/8/2022	08:00	55.6	90
Tue	16/8/2022	08:05	51.4	90
Tue	16/8/2022	08:10	52.6	90
Tue	16/8/2022	08:15	49.7	90
Tue	16/8/2022	08:20	55.4	90
Tue	16/8/2022	08:25	61.2	90
Tue	16/8/2022	08:30	56.2	90
Tue	16/8/2022	08:35	50.9	90
Tue	16/8/2022	08:40	50.6	90
Tue	16/8/2022	08:45	52.1	90
Tue	16/8/2022	08:50	51.4	90
Tue	16/8/2022	08:55	48.8	90
Tue	16/8/2022	09:00	50.3	90
Tue	16/8/2022	09:05	48.8	90
Tue	16/8/2022	09:10	52.1	90
Tue	16/8/2022	09:15	50.9	90
Tue	16/8/2022	09:20	50.1	90
Tue	16/8/2022	09:25	49.5	90
Tue	16/8/2022	09:30	49.2	90
Tue	16/8/2022	09:35	52.3	90
Tue	16/8/2022	09:40	52.7	90
Tue	16/8/2022	09:45	51.3	90
Tue	16/8/2022	09:50	51.3	90
Tue	16/8/2022	09:55	50.5	90
Tue	16/8/2022	10:00	50.7	90
Tue	16/8/2022	10:05	48.1	90
Tue	16/8/2022	10:10	53.1	90
Tue	16/8/2022	10:15	52.6	90
Tue	16/8/2022	10:20	52.7	90
Tue	16/8/2022	10:25	57	90
Tue	16/8/2022	10:30	62.5	90
Tue	16/8/2022	10:35	57	90
Tue	16/8/2022	10:40	54.5	90
Tue	16/8/2022	10:45	52.9	90
Tue	16/8/2022	10:50	58.5	90
Tue	16/8/2022	10:55	61.7	90
Tue	16/8/2022	11:00	60.5	90

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Sat	13/8/2022	07:25	62.9	90
Sat	13/8/2022	07:30	60.9	90
Sat	13/8/2022	07:35	54.5	90
Sat	13/8/2022	07:40	57.2	90
Sat	13/8/2022	07:45	56.4	90
Sat	13/8/2022	07:50	55.5	90
Sat	13/8/2022	07:55	53.1	90
Sat	13/8/2022	08:00	55.6	90
Sat	13/8/2022	08:05	58.6	90
Sat	13/8/2022	08:10	53.6	90
Sat	13/8/2022	08:15	55.4	90
Sat	13/8/2022	08:20	50.1	90
Sat	13/8/2022	08:25	55.9	90
Sat	13/8/2022	08:30	55.6	90
Sat	13/8/2022	08:35	57.6	90
Sat	13/8/2022	08:40	58.5	90
Sat	13/8/2022	08:45	53.9	90
Sat	13/8/2022	08:50	55.5	90
Sat	13/8/2022	08:55	56.2	90
Sat	13/8/2022	09:00	63.2	90
Sat	13/8/2022	09:05	55.5	90
Sat	13/8/2022	09:10	59.3	90
Sat	13/8/2022	09:15	67.4	90
Sat	13/8/2022	09:20	67.1	90
Sat	13/8/2022	09:25	60.7	90
Sat	13/8/2022	09:30	57.7	90
Sat	13/8/2022	09:35	56	90
Sat	13/8/2022	09:40	59.2	90
Sat	13/8/2022	09:45	53.6	90
Sat	13/8/2022	09:50	53.4	90
Sat	13/8/2022	09:55	59.6	90
Sat	13/8/2022	10:00	54.5	90
Sat	13/8/2022	10:05	59	90
Sat	13/8/2022	10:10	63.9	90
Sat	13/8/2022	10:15	67.4	90
Sat	13/8/2022	10:20	66.5	90
Sat	13/8/2022	10:25	66.3	90
Sat	13/8/2022	10:30	66.5	90
Sat	13/8/2022	10:35	61.8	90
Sat	13/8/2022	10:40	69.3	90
Sat	13/8/2022	10:45	63.8	90
Sat	13/8/2022	10:50	61.2	90
Sat	13/8/2022	10:55	57.1	90
Sat	13/8/2022	11:00	67.4	90

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Tue	16/8/2022	11:05	66.6	90
Tue	16/8/2022	11:10	55.4	90
Tue	16/8/2022	11:15	58.4	90
Tue	16/8/2022	11:20	52.8	90
Tue	16/8/2022	11:25	53.5	90
Tue	16/8/2022	11:30	50.5	90
Tue	16/8/2022	11:35	51.5	90
Tue	16/8/2022	11:40	52.2	90
Tue	16/8/2022	11:45	51.4	90
Tue	16/8/2022	11:50	50.1	90
Tue	16/8/2022	11:55	52.4	90
Tue	16/8/2022	12:00	53.6	90
Tue	16/8/2022	12:05	51.3	90
Tue	16/8/2022	12:10	48.5	90
Tue	16/8/2022	12:15	49.8	90
Tue	16/8/2022	12:20	49.4	90
Tue	16/8/2022	12:25	51.2	90
Tue	16/8/2022	12:30	49.9	90
Tue	16/8/2022	12:35	49.7	90
Tue	16/8/2022	12:40	47.9	90
Tue	16/8/2022	12:45	51.3	90
Tue	16/8/2022	12:50	50.6	90
Tue	16/8/2022	12:55	54.1	90
Tue	16/8/2022	13:00	52	90
Tue	16/8/2022	13:05	48.5	90
Tue	16/8/2022	13:10	47.4	90
Tue	16/8/2022	13:15	52.8	90
Tue	16/8/2022	13:20	53.2	90
Tue	16/8/2022	13:25	51.1	90
Tue	16/8/2022	13:30	47.1	90
Tue	16/8/2022	13:35	52.3	90
Tue	16/8/2022	13:40	46.4	90
Tue	16/8/2022	13:45	45.3	90
Tue	16/8/2022	13:50	49.7	90
Tue	16/8/2022	13:55	44.5	90
Tue	16/8/2022	14:00	47.4	90
Tue	16/8/2022	14:05	51.2	90
Tue	16/8/2022	14:10	51.8	90
Tue	16/8/2022	14:15	46.2	90
Tue	16/8/2022	14:20	44.1	90
Tue	16/8/2022	14:25	47.4	90
Tue	16/8/2022	14:30	46.7	90
Tue	16/8/2022	14:35	48	90
Tue	16/8/2022	14:40	45.6	90

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Sat	13/8/2022	11:05	53.7	90
Sat	13/8/2022	11:10	52.5	90
Sat	13/8/2022	11:15	53.6	90
Sat	13/8/2022	11:20	66.2	90
Sat	13/8/2022	11:25	69.7	90
Sat	13/8/2022	11:30	68.5	90
Sat	13/8/2022	11:35	66.4	90
Sat	13/8/2022	11:40	63.8	90
Sat	13/8/2022	11:45	51.7	90
Sat	13/8/2022	11:50	52.9	90
Sat	13/8/2022	11:55	55.1	90
Sat	13/8/2022	12:00	60.4	90
Sat	13/8/2022	12:05	58.1	90
Sat	13/8/2022	12:10	54.6	90
Sat	13/8/2022	12:15	50.3	90
Sat	13/8/2022	12:20	49.4	90
Sat	13/8/2022	12:25	49.7	90
Sat	13/8/2022	12:30	51.9	90
Sat	13/8/2022	12:35	53.9	90
Sat	13/8/2022	12:40	57.6	90
Sat	13/8/2022	12:45	55	90
Sat	13/8/2022	12:50	54.4	90
Sat	13/8/2022	12:55	58.2	90
Sat	13/8/2022	13:00	54.9	90
Sat	13/8/2022	13:05	55.6	90
Sat	13/8/2022	13:10	65.9	90
Sat	13/8/2022	13:15	57.1	90
Sat	13/8/2022	13:20	57.9	90
Sat	13/8/2022	13:25	59.6	90
Sat	13/8/2022	13:30	68	90
Sat	13/8/2022	13:35	66.7	90
Sat	13/8/2022	13:40	70	90
Sat	13/8/2022	13:45	61.7	90
Sat	13/8/2022	13:50	53.6	90
Sat	13/8/2022	13:55	50.8	90
Sat	13/8/2022	14:00	62.9	90
Sat	13/8/2022	14:05	58.5	90
Sat	13/8/2022	14:10	56	90
Sat	13/8/2022	14:15	55.3	90
Sat	13/8/2022	14:20	55.3	90
Sat	13/8/2022	14:25	55.4	90
Sat	13/8/2022	14:30	56.5	90
Sat	13/8/2022	14:35	56.5	90
Sat	13/8/2022	14:40	56.9	90

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Tue	16/8/2022	14:45	45.1	90
Tue	16/8/2022	14:50	47.2	90
Tue	16/8/2022	14:55	45.3	90
Tue	16/8/2022	15:00	44.5	90
Tue	16/8/2022	15:05	44.6	90
Tue	16/8/2022	15:10	51.8	90
Tue	16/8/2022	15:15	43.2	90
Tue	16/8/2022	15:20	48.1	90
Tue	16/8/2022	15:25	61.2	90
Tue	16/8/2022	15:30	47.3	90
Tue	16/8/2022	15:35	43.8	90
Tue	16/8/2022	15:40	45.3	90
Tue	16/8/2022	15:45	44.9	90
Tue	16/8/2022	15:50	43.9	90
Tue	16/8/2022	15:55	46	90
Tue	16/8/2022	16:00	42.5	90
Tue	16/8/2022	16:05	48	90
Tue	16/8/2022	16:10	44.8	90
Tue	16/8/2022	16:15	42.7	90
Tue	16/8/2022	16:20	43.5	90
Tue	16/8/2022	16:25	56.5	90
Tue	16/8/2022	16:30	44.3	90
Tue	16/8/2022	16:35	46	90
Tue	16/8/2022	16:40	44.9	90
Tue	16/8/2022	16:45	43	90
Tue	16/8/2022	16:50	47.3	90
Tue	16/8/2022	16:55	44.1	90
Tue	16/8/2022	17:00	50.1	90
Tue	16/8/2022	17:05	46.9	90
Tue	16/8/2022	17:10	47	90
Tue	16/8/2022	17:15	45.3	90
Tue	16/8/2022	17:20	49.1	90
Tue	16/8/2022	17:25	45.5	90
Tue	16/8/2022	17:30	43	90
Tue	16/8/2022	17:35	51.9	90
Tue	16/8/2022	17:40	52.4	90
Tue	16/8/2022	17:45	44.7	90
Tue	16/8/2022	17:50	47.1	90
Tue	16/8/2022	17:55	51.8	90
Tue	16/8/2022	18:00	47.2	90
Tue	16/8/2022	18:05	48.9	90
Tue	16/8/2022	18:10	54.5	90
Tue	16/8/2022	18:15	47	90
Tue	16/8/2022	18:20	48.9	90

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Sat	13/8/2022	14:45	56.8	90
Sat	13/8/2022	14:50	52.2	90
Sat	13/8/2022	14:55	52.6	90
Sat	13/8/2022	15:00	55	90
Sat	13/8/2022	15:05	49.3	90
Sat	13/8/2022	15:10	54	90
Sat	13/8/2022	15:15	52.9	90
Sat	13/8/2022	15:20	57.4	90
Sat	13/8/2022	15:25	57	90
Sat	13/8/2022	15:30	52.7	90
Sat	13/8/2022	15:35	55.5	90
Sat	13/8/2022	15:40	66.3	90
Sat	13/8/2022	15:45	50.1	90
Sat	13/8/2022	15:50	51.5	90
Sat	13/8/2022	15:55	49.9	90
Sat	13/8/2022	16:00	51.8	90
Sat	13/8/2022	16:05	57.8	90
Sat	13/8/2022	16:10	53.1	90
Sat	13/8/2022	16:15	51.9	90
Sat	13/8/2022	16:20	53.4	90
Sat	13/8/2022	16:25	53.1	90
Sat	13/8/2022	16:30	53.3	90
Sat	13/8/2022	16:35	55.5	90
Sat	13/8/2022	16:40	57.9	90
Sat	13/8/2022	16:45	63.1	90
Sat	13/8/2022	16:50	57.2	90
Sat	13/8/2022	16:55	50.7	90
Sat	13/8/2022	17:00	54.5	90
Sat	13/8/2022	17:05	59	90
Sat	13/8/2022	17:10	56.1	90
Sat	13/8/2022	17:15	53	90
Sat	13/8/2022	17:20	54.8	90
Sat	13/8/2022	17:25	48.1	90
Sat	13/8/2022	17:30	49.8	90
Sat	13/8/2022	17:35	47.7	90
Sat	13/8/2022	17:40	48.7	90
Sat	13/8/2022	17:45	48.5	90
Sat	13/8/2022	17:50	49	90
Sat	13/8/2022	17:55	57.3	90
Sat	13/8/2022	18:00	58.3	90
Sat	13/8/2022	18:05	56.4	90
Sat	13/8/2022	18:10	49.3	90
Sat	13/8/2022	18:15	47.9	90
Sat	13/8/2022	18:20	50	90

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Tue	16/8/2022	18:25	47.2	90
Tue	16/8/2022	18:30	45.6	90
Tue	16/8/2022	18:35	47	90
Tue	16/8/2022	18:40	47.4	90
Tue	16/8/2022	18:45	50.6	90
Tue	16/8/2022	18:50	46.2	90
Tue	16/8/2022	18:55	44.5	90
Tue	16/8/2022	19:00	46.7	70
Tue	16/8/2022	19:05	49.1	70
Tue	16/8/2022	19:10	47.9	70
Tue	16/8/2022	19:15	46.8	70
Tue	16/8/2022	19:20	50.6	70
Tue	16/8/2022	19:25	48.5	70
Tue	16/8/2022	19:30	48.2	70
Tue	16/8/2022	19:35	46.7	70
Tue	16/8/2022	19:40	46.7	70
Tue	16/8/2022	19:45	50.6	70
Tue	16/8/2022	19:50	58.9	70
Tue	16/8/2022	19:55	49.1	70
Tue	16/8/2022	20:00	49.3	70
Tue	16/8/2022	20:05	47.5	70
Tue	16/8/2022	20:10	53.9	70
Tue	16/8/2022	20:15	47.4	70
Tue	16/8/2022	20:20	50.8	70
Tue	16/8/2022	20:25	49.7	70
Tue	16/8/2022	20:30	52.6	70
Tue	16/8/2022	20:35	45.8	70
Tue	16/8/2022	20:40	47.1	70
Tue	16/8/2022	20:45	51	70
Tue	16/8/2022	20:50	45.5	70
Tue	16/8/2022	20:55	62.1	70
Tue	16/8/2022	21:00	47.1	70
Tue	16/8/2022	21:05	52.2	70
Tue	16/8/2022	21:10	52.3	70
Tue	16/8/2022	21:15	48.1	70
Tue	16/8/2022	21:20	50.2	70
Tue	16/8/2022	21:25	46.9	70
Tue	16/8/2022	21:30	48.7	70
Tue	16/8/2022	21:35	46.8	70
Tue	16/8/2022	21:40	46.2	70
Tue	16/8/2022	21:45	54.5	70
Tue	16/8/2022	21:50	44.5	70
Tue	16/8/2022	21:55	46.2	70
Tue	16/8/2022	22:00	44.1	70

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Sat	13/8/2022	18:25	50.1	90
Sat	13/8/2022	18:30	47.4	90
Sat	13/8/2022	18:35	48.3	90
Sat	13/8/2022	18:40	57.1	90
Sat	13/8/2022	18:45	53.3	90
Sat	13/8/2022	18:50	47.2	90
Sat	13/8/2022	18:55	48.9	90
Sat	13/8/2022	19:00	48.5	90
Sat	13/8/2022	19:05	50	70
Sat	13/8/2022	19:10	48.3	70
Sat	13/8/2022	19:15	47.8	70
Sat	13/8/2022	19:20	51.9	70
Sat	13/8/2022	19:25	49.1	70
Sat	13/8/2022	19:30	56.9	70
Sat	13/8/2022	19:35	47.3	70
Sat	13/8/2022	19:40	46.8	70
Sat	13/8/2022	19:45	66	70
Sat	13/8/2022	19:50	68.6	70
Sat	13/8/2022	19:55	55.2	70
Sat	13/8/2022	20:00	63.7	70
Sat	13/8/2022	20:05	64	70
Sat	13/8/2022	20:10	65.2	70
Sat	13/8/2022	20:15	52.4	70
Sat	13/8/2022	20:20	48	70
Sat	13/8/2022	20:25	46.9	70
Sat	13/8/2022	20:30	50.3	70
Sat	13/8/2022	20:35	48.6	70
Sat	13/8/2022	20:40	50.5	70
Sat	13/8/2022	20:45	49.5	70
Sat	13/8/2022	20:50	47.5	70
Sat	13/8/2022	20:55	47.6	70
Sat	13/8/2022	21:00	56.4	70
Sat	13/8/2022	21:05	52.6	70
Sat	13/8/2022	21:10	57.6	70
Sat	13/8/2022	21:15	61.4	70
Sat	13/8/2022	21:20	50.7	70
Sat	13/8/2022	21:25	46.9	70
Sat	13/8/2022	21:30	50.4	70
Sat	13/8/2022	21:35	48.4	70
Sat	13/8/2022	21:40	50.1	70
Sat	13/8/2022	21:45	47.6	70
Sat	13/8/2022	21:50	47.6	70
Sat	13/8/2022	21:55	47.3	70
Sat	13/8/2022	22:00	46.7	70

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Tue	16/8/2022	22:05	47.3	70
Tue	16/8/2022	22:10	45.7	70
Tue	16/8/2022	22:15	44.6	70
Tue	16/8/2022	22:20	45.1	70
Tue	16/8/2022	22:25	46.6	70
Tue	16/8/2022	22:30	46.2	70
Tue	16/8/2022	22:35	40.1	70
Tue	16/8/2022	22:40	40.2	70
Tue	16/8/2022	22:45	43.8	70
Tue	16/8/2022	22:50	44.4	70
Tue	16/8/2022	22:55	44.5	70
Tue	16/8/2022	23:00	43.9	70
Tue	16/8/2022	23:05	46.4	70
Tue	16/8/2022	23:10	45.4	70
Tue	16/8/2022	23:15	46.8	70
Tue	16/8/2022	23:20	44.9	70
Tue	16/8/2022	23:25	47.8	70
Tue	16/8/2022	23:30	44.9	70
Tue	16/8/2022	23:35	53.7	70
Tue	16/8/2022	23:40	45.1	70
Tue	16/8/2022	23:45	46.6	70
Tue	16/8/2022	23:50	45.7	70
Tue	16/8/2022	23:55	46.9	70
Wed	17/8/2022	00:00	45	70
Wed	17/8/2022	00:05	52	70
Wed	17/8/2022	00:10	51.9	70
Wed	17/8/2022	00:15	58.5	70
Wed	17/8/2022	00:20	46	70
Wed	17/8/2022	00:25	46.7	70
Wed	17/8/2022	00:30	46.2	70
Wed	17/8/2022	00:35	46.2	70
Wed	17/8/2022	00:40	48.2	70
Wed	17/8/2022	00:45	46.9	70
Wed	17/8/2022	00:50	44.3	70
Wed	17/8/2022	00:55	46.5	70
Wed	17/8/2022	01:00	48.1	70
Wed	17/8/2022	01:05	46.1	70
Wed	17/8/2022	01:10	48.2	70
Wed	17/8/2022	01:15	48.8	70
Wed	17/8/2022	01:20	50	70
Wed	17/8/2022	01:25	51.3	70
Wed	17/8/2022	01:30	52	70
Wed	17/8/2022	01:35	53.8	70
Wed	17/8/2022	01:40	44.9	70

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Sat	13/8/2022	22:05	47.1	55
Sat	13/8/2022	22:10	47.8	55
Sat	13/8/2022	22:15	56.9	55
Sat	13/8/2022	22:20	49.3	55
Sat	13/8/2022	22:25	47.4	55
Sat	13/8/2022	22:30	47.2	55
Sat	13/8/2022	22:35	46.5	55
Sat	13/8/2022	22:40	46.3	55
Sat	13/8/2022	22:45	47.1	55
Sat	13/8/2022	22:50	49.2	55
Sat	13/8/2022	22:55	47	55
Sat	13/8/2022	23:00	46.6	55
Sat	13/8/2022	23:05	47.2	55
Sat	13/8/2022	23:10	47.8	55
Sat	13/8/2022	23:15	46.3	55
Sat	13/8/2022	23:20	46.4	55
Sat	13/8/2022	23:25	46.1	55
Sat	13/8/2022	23:30	48	55
Sat	13/8/2022	23:35	46.6	55
Sat	13/8/2022	23:40	46.1	55
Sat	13/8/2022	23:45	46.2	55
Sat	13/8/2022	23:50	49.4	55
Sat	13/8/2022	23:55	55.6	55
Sun	14/8/2022	00:00	60.7	55
Sun	14/8/2022	00:05	50	55
Sun	14/8/2022	00:10	51.2	55
Sun	14/8/2022	00:15	46.4	55
Sun	14/8/2022	00:20	46.1	55
Sun	14/8/2022	00:25	47.4	55
Sun	14/8/2022	00:30	49.4	55
Sun	14/8/2022	00:35	50.4	55
Sun	14/8/2022	00:40	46.3	55
Sun	14/8/2022	00:45	46.3	55
Sun	14/8/2022	00:50	45.9	55
Sun	14/8/2022	00:55	46.4	55
Sun	14/8/2022	01:00	50.5	55
Sun	14/8/2022	01:05	48.6	55
Sun	14/8/2022	01:10	63.6	55
Sun	14/8/2022	01:15	45.8	55
Sun	14/8/2022	01:20	48.4	55
Sun	14/8/2022	01:25	45.8	55
Sun	14/8/2022	01:30	46.2	55
Sun	14/8/2022	01:35	48.5	55
Sun	14/8/2022	01:40	45.3	55

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Wed	17/8/2022	01:45	47.1	70
Wed	17/8/2022	01:50	44.5	70
Wed	17/8/2022	01:55	44.3	70
Wed	17/8/2022	02:00	46	70
Wed	17/8/2022	02:05	45	70
Wed	17/8/2022	02:10	44.7	70
Wed	17/8/2022	02:15	43.7	70
Wed	17/8/2022	02:20	44	70
Wed	17/8/2022	02:25	44.1	70
Wed	17/8/2022	02:30	45.1	70
Wed	17/8/2022	02:35	43.8	70
Wed	17/8/2022	02:40	43.9	70
Wed	17/8/2022	02:45	43.9	70
Wed	17/8/2022	02:50	44.2	70
Wed	17/8/2022	02:55	43.4	70
Wed	17/8/2022	03:00	44.3	70
Wed	17/8/2022	03:05	43.7	70
Wed	17/8/2022	03:10	43.9	70
Wed	17/8/2022	03:15	43.2	70
Wed	17/8/2022	03:20	43.5	70
Wed	17/8/2022	03:25	45.1	70
Wed	17/8/2022	03:30	44.3	70
Wed	17/8/2022	03:35	42.2	70
Wed	17/8/2022	03:40	46.2	70
Wed	17/8/2022	03:45	44.7	70
Wed	17/8/2022	03:50	45	70
Wed	17/8/2022	03:55	45.4	70
Wed	17/8/2022	04:00	45.1	70
Wed	17/8/2022	04:05	45.5	70
Wed	17/8/2022	04:10	45.6	70
Wed	17/8/2022	04:15	45	70
Wed	17/8/2022	04:20	44.6	70
Wed	17/8/2022	04:25	44.2	70
Wed	17/8/2022	04:30	45.8	70
Wed	17/8/2022	04:35	45.9	70
Wed	17/8/2022	04:40	47	70
Wed	17/8/2022	04:45	48	70
Wed	17/8/2022	04:50	47.4	70
Wed	17/8/2022	04:55	48	70
Wed	17/8/2022	05:00	48.7	70
Wed	17/8/2022	05:05	46.6	70
Wed	17/8/2022	05:10	46.5	70
Wed	17/8/2022	05:15	46.2	70
Wed	17/8/2022	05:20	46.7	70

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	01:45	45.8	55
Sun	14/8/2022	01:50	45.8	55
Sun	14/8/2022	01:55	45.9	55
Sun	14/8/2022	02:00	46.6	55
Sun	14/8/2022	02:05	46.2	55
Sun	14/8/2022	02:10	45.8	55
Sun	14/8/2022	02:15	46	55
Sun	14/8/2022	02:20	46.2	55
Sun	14/8/2022	02:25	46.4	55
Sun	14/8/2022	02:30	59.7	55
Sun	14/8/2022	02:35	45.9	55
Sun	14/8/2022	02:40	46.1	55
Sun	14/8/2022	02:45	54.5	55
Sun	14/8/2022	02:50	45.7	55
Sun	14/8/2022	02:55	45.5	55
Sun	14/8/2022	03:00	46	55
Sun	14/8/2022	03:05	46.5	55
Sun	14/8/2022	03:10	47.3	55
Sun	14/8/2022	03:15	46.3	55
Sun	14/8/2022	03:20	46.6	55
Sun	14/8/2022	03:25	46.3	55
Sun	14/8/2022	03:30	45.8	55
Sun	14/8/2022	03:35	46.1	55
Sun	14/8/2022	03:40	45.6	55
Sun	14/8/2022	03:45	45.6	55
Sun	14/8/2022	03:50	46	55
Sun	14/8/2022	03:55	46	55
Sun	14/8/2022	04:00	48.4	55
Sun	14/8/2022	04:05	45.2	55
Sun	14/8/2022	04:10	45.3	55
Sun	14/8/2022	04:15	45.4	55
Sun	14/8/2022	04:20	46.5	55
Sun	14/8/2022	04:25	46.2	55
Sun	14/8/2022	04:30	47.4	55
Sun	14/8/2022	04:35	47	55
Sun	14/8/2022	04:40	45.9	55
Sun	14/8/2022	04:45	45.6	55
Sun	14/8/2022	04:50	45.7	55
Sun	14/8/2022	04:55	45.8	55
Sun	14/8/2022	05:00	45.9	55
Sun	14/8/2022	05:05	46.8	55
Sun	14/8/2022	05:10	46.7	55
Sun	14/8/2022	05:15	49	55
Sun	14/8/2022	05:20	47.7	55

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Wed	17/8/2022	05:25	46.2	70
Wed	17/8/2022	05:30	44.8	70
Wed	17/8/2022	05:35	46.8	70
Wed	17/8/2022	05:40	45.6	70
Wed	17/8/2022	05:45	47.4	70
Wed	17/8/2022	05:50	45	70
Wed	17/8/2022	05:55	45	70
Wed	17/8/2022	06:00	45.5	70
Wed	17/8/2022	06:05	45.9	70
Wed	17/8/2022	06:10	44.8	70
Wed	17/8/2022	06:15	45	70
Wed	17/8/2022	06:20	44.9	70
Wed	17/8/2022	06:25	45.1	70
Wed	17/8/2022	06:30	44.9	70
Wed	17/8/2022	06:35	45.3	70
Wed	17/8/2022	06:40	45.3	70
Wed	17/8/2022	06:45	45.5	70
Wed	17/8/2022	06:50	46	70
Wed	17/8/2022	06:55	45.4	70
Wed	17/8/2022	07:00	46	90
Wed	17/8/2022	07:05	44.4	90
Wed	17/8/2022	07:10	44.6	90
Wed	17/8/2022	07:15	51.7	90
Wed	17/8/2022	07:20	65.7	90
Wed	17/8/2022	07:25	60.2	90
Wed	17/8/2022	07:30	73.2	90
Wed	17/8/2022	07:35	70.8	90
Wed	17/8/2022	07:40	77.8	90
Wed	17/8/2022	07:45	74.4	90
Wed	17/8/2022	07:50	71	90
Wed	17/8/2022	07:55	72.2	90
Wed	17/8/2022	08:00	69.2	90
Wed	17/8/2022	08:05	58.9	90
Wed	17/8/2022	08:10	56.5	90
Wed	17/8/2022	08:15	64.8	90
Wed	17/8/2022	08:20	68.1	90
Wed	17/8/2022	08:25	68.6	90
Wed	17/8/2022	08:30	70.8	90
Wed	17/8/2022	08:35	70.7	90
Wed	17/8/2022	08:40	62.2	90
Wed	17/8/2022	08:45	64.6	90
Wed	17/8/2022	08:50	61.8	90
Wed	17/8/2022	08:55	56.7	90
Wed	17/8/2022	09:00	55.6	90

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	05:25	48.1	55
Sun	14/8/2022	05:30	47	55
Sun	14/8/2022	05:35	48.4	55
Sun	14/8/2022	05:40	60.2	55
Sun	14/8/2022	05:45	56.5	55
Sun	14/8/2022	05:50	53.9	55
Sun	14/8/2022	05:55	47.7	55
Sun	14/8/2022	06:00	48	55
Sun	14/8/2022	06:05	51	55
Sun	14/8/2022	06:10	60.2	55
Sun	14/8/2022	06:15	51.4	55
Sun	14/8/2022	06:20	49.1	55
Sun	14/8/2022	06:25	48.5	55
Sun	14/8/2022	06:30	60.5	55
Sun	14/8/2022	06:35	55.6	55
Sun	14/8/2022	06:40	51.5	55
Sun	14/8/2022	06:45	52.1	55
Sun	14/8/2022	06:50	48.3	55
Sun	14/8/2022	06:55	50.2	55
Sun	14/8/2022	07:00	48.3	55
Sun	14/8/2022	07:05	47.6	75
Sun	14/8/2022	07:10	48.7	75
Sun	14/8/2022	07:15	50.5	75
Sun	14/8/2022	07:20	49.2	75
Sun	14/8/2022	07:25	52.1	75
Sun	14/8/2022	07:30	51.7	75
Sun	14/8/2022	07:35	52.7	75
Sun	14/8/2022	07:40	52.8	75
Sun	14/8/2022	07:45	51.4	75
Sun	14/8/2022	07:50	52	75
Sun	14/8/2022	07:55	53	75
Sun	14/8/2022	08:00	57.5	75
Sun	14/8/2022	08:05	51.3	75
Sun	14/8/2022	08:10	50.9	75
Sun	14/8/2022	08:15	52.1	75
Sun	14/8/2022	08:20	56.8	75
Sun	14/8/2022	08:25	56.7	75
Sun	14/8/2022	08:30	56	75
Sun	14/8/2022	08:35	55.7	75
Sun	14/8/2022	08:40	57	75
Sun	14/8/2022	08:45	54.8	75
Sun	14/8/2022	08:50	56.9	75
Sun	14/8/2022	08:55	58.2	75
Sun	14/8/2022	09:00	61.6	75

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Wed	17/8/2022	09:05	56	90
Wed	17/8/2022	09:10	56.4	90
Wed	17/8/2022	09:15	55.3	90
Wed	17/8/2022	09:20	56.3	90
Wed	17/8/2022	09:25	53.9	90
Wed	17/8/2022	09:30	54.9	90
Wed	17/8/2022	09:35	53.6	90
Wed	17/8/2022	09:40	54.2	90
Wed	17/8/2022	09:45	52.8	90
Wed	17/8/2022	09:50	50.6	90
Wed	17/8/2022	09:55	50.8	90
Wed	17/8/2022	10:00	54.4	90
Wed	17/8/2022	10:05	48.1	90
Wed	17/8/2022	10:10	50.6	90
Wed	17/8/2022	10:15	50.2	90
Wed	17/8/2022	10:20	48.5	90
Wed	17/8/2022	10:25	49.1	90
Wed	17/8/2022	10:30	53.1	90
Wed	17/8/2022	10:35	47.3	90
Wed	17/8/2022	10:40	49.2	90
Wed	17/8/2022	10:45	47.3	90
Wed	17/8/2022	10:50	49.7	90
Wed	17/8/2022	10:55	47.7	90
Wed	17/8/2022	11:00	48.4	90
Wed	17/8/2022	11:05	47.7	90
Wed	17/8/2022	11:10	47	90
Wed	17/8/2022	11:15	47.5	90
Wed	17/8/2022	11:20	56.9	90
Wed	17/8/2022	11:25	48.7	90
Wed	17/8/2022	11:30	47.6	90
Wed	17/8/2022	11:35	58.2	90
Wed	17/8/2022	11:40	70.4	90
Wed	17/8/2022	11:45	47.7	90
Wed	17/8/2022	11:50	56.6	90
Wed	17/8/2022	11:55	49.6	90
Wed	17/8/2022	12:00	48.1	90
Wed	17/8/2022	12:05	46.1	90
Wed	17/8/2022	12:10	49.7	90
Wed	17/8/2022	12:15	46.8	90
Wed	17/8/2022	12:20	47.1	90
Wed	17/8/2022	12:25	49.2	90
Wed	17/8/2022	12:30	51.5	90
Wed	17/8/2022	12:35	55.8	90
Wed	17/8/2022	12:40	46.4	90

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	09:05	59.2	75
Sun	14/8/2022	09:10	55	75
Sun	14/8/2022	09:15	53.1	75
Sun	14/8/2022	09:20	67.2	75
Sun	14/8/2022	09:25	56.5	75
Sun	14/8/2022	09:30	63.7	75
Sun	14/8/2022	09:35	50.9	75
Sun	14/8/2022	09:40	48.5	75
Sun	14/8/2022	09:45	52.5	75
Sun	14/8/2022	09:50	49.8	75
Sun	14/8/2022	09:55	52.5	75
Sun	14/8/2022	10:00	61.1	75
Sun	14/8/2022	10:05	49.6	75
Sun	14/8/2022	10:10	49.6	75
Sun	14/8/2022	10:15	50.4	75
Sun	14/8/2022	10:20	60.8	75
Sun	14/8/2022	10:25	68.6	75
Sun	14/8/2022	10:30	49.4	75
Sun	14/8/2022	10:35	48.7	75
Sun	14/8/2022	10:40	49.1	75
Sun	14/8/2022	10:45	62.9	75
Sun	14/8/2022	10:50	65	75
Sun	14/8/2022	10:55	62.7	75
Sun	14/8/2022	11:00	64.2	75
Sun	14/8/2022	11:05	59.3	75
Sun	14/8/2022	11:10	56.3	75
Sun	14/8/2022	11:15	56.6	75
Sun	14/8/2022	11:20	57.7	75
Sun	14/8/2022	11:25	55.5	75
Sun	14/8/2022	11:30	49.4	75
Sun	14/8/2022	11:35	49.7	75
Sun	14/8/2022	11:40	50.1	75
Sun	14/8/2022	11:45	47.8	75
Sun	14/8/2022	11:50	56.5	75
Sun	14/8/2022	11:55	57.3	75
Sun	14/8/2022	12:00	55.9	75
Sun	14/8/2022	12:05	56.8	75
Sun	14/8/2022	12:10	48.3	75
Sun	14/8/2022	12:15	49.6	75
Sun	14/8/2022	12:20	50.8	75
Sun	14/8/2022	12:25	55.3	75
Sun	14/8/2022	12:30	54.5	75
Sun	14/8/2022	12:35	49.9	75
Sun	14/8/2022	12:40	48.9	75

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Wed	17/8/2022	12:45	45.3	90
Wed	17/8/2022	12:50	50.7	90
Wed	17/8/2022	12:55	44.4	90
Wed	17/8/2022	13:00	51.6	90
Wed	17/8/2022	13:05	46.1	90
Wed	17/8/2022	13:10	47.4	90
Wed	17/8/2022	13:15	50.6	90
Wed	17/8/2022	13:20	60.2	90
Wed	17/8/2022	13:25	52.3	90
Wed	17/8/2022	13:30	48.3	90
Wed	17/8/2022	13:35	48.5	90
Wed	17/8/2022	13:40	45.6	90
Wed	17/8/2022	13:45	45.9	90
Wed	17/8/2022	13:50	46.1	90
Wed	17/8/2022	13:55	44.9	90
Wed	17/8/2022	14:00	57.2	90
Wed	17/8/2022	14:05	65.7	90
Wed	17/8/2022	14:10	50.6	90
Wed	17/8/2022	14:15	48.6	90
Wed	17/8/2022	14:20	52.7	90
Wed	17/8/2022	14:25	47.6	90
Wed	17/8/2022	14:30	51.9	90
Wed	17/8/2022	14:35	49.2	90
Wed	17/8/2022	14:40	47.9	90
Wed	17/8/2022	14:45	48.9	90
Wed	17/8/2022	14:50	47.9	90
Wed	17/8/2022	14:55	51.1	90
Wed	17/8/2022	15:00	52.8	90
Wed	17/8/2022	15:05	49	90
Wed	17/8/2022	15:10	49	90
Wed	17/8/2022	15:15	50.1	90
Wed	17/8/2022	15:20	52.5	90
Wed	17/8/2022	15:25	49.5	90
Wed	17/8/2022	15:30	57	90
Wed	17/8/2022	15:35	51	90
Wed	17/8/2022	15:40	67.2	90
Wed	17/8/2022	15:45	50.8	90
Wed	17/8/2022	15:50	50.3	90
Wed	17/8/2022	15:55	48.9	90
Wed	17/8/2022	16:00	52.4	90
Wed	17/8/2022	16:05	52	90
Wed	17/8/2022	16:10	55.9	90
Wed	17/8/2022	16:15	55.1	90
Wed	17/8/2022	16:20	46.5	90

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	12:45	50.4	75
Sun	14/8/2022	12:50	51.6	75
Sun	14/8/2022	12:55	47.4	75
Sun	14/8/2022	13:00	59.3	75
Sun	14/8/2022	13:05	63.7	75
Sun	14/8/2022	13:10	67.7	75
Sun	14/8/2022	13:15	68.7	75
Sun	14/8/2022	13:20	65	75
Sun	14/8/2022	13:25	69.1	75
Sun	14/8/2022	13:30	76.9	75
Sun	14/8/2022	13:35	81.2	75
Sun	14/8/2022	13:40	80.1	75
Sun	14/8/2022	13:45	75.9	75
Sun	14/8/2022	13:50	70	75
Sun	14/8/2022	13:55	69.2	75
Sun	14/8/2022	14:00	64.6	75
Sun	14/8/2022	14:05	57.6	75
Sun	14/8/2022	14:10	56.3	75
Sun	14/8/2022	14:15	55.2	75
Sun	14/8/2022	14:20	51.3	75
Sun	14/8/2022	14:25	62.7	75
Sun	14/8/2022	14:30	66.1	75
Sun	14/8/2022	14:35	51.3	75
Sun	14/8/2022	14:40	54.3	75
Sun	14/8/2022	14:45	52.8	75
Sun	14/8/2022	14:50	50.3	75
Sun	14/8/2022	14:55	58.8	75
Sun	14/8/2022	15:00	55.2	75
Sun	14/8/2022	15:05	51.3	75
Sun	14/8/2022	15:10	50.7	75
Sun	14/8/2022	15:15	49.6	75
Sun	14/8/2022	15:20	55.4	75
Sun	14/8/2022	15:25	50.1	75
Sun	14/8/2022	15:30	59.9	75
Sun	14/8/2022	15:35	50.5	75
Sun	14/8/2022	15:40	49.1	75
Sun	14/8/2022	15:45	52	75
Sun	14/8/2022	15:50	49.5	75
Sun	14/8/2022	15:55	49.9	75
Sun	14/8/2022	16:00	53.6	75
Sun	14/8/2022	16:05	56.2	75
Sun	14/8/2022	16:10	64.5	75
Sun	14/8/2022	16:15	51.2	75
Sun	14/8/2022	16:20	47.9	75

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Wed	17/8/2022	16:25	48.8	90
Wed	17/8/2022	16:30	60.5	90
Wed	17/8/2022	16:35	54.4	90
Wed	17/8/2022	16:40	58.5	90
Wed	17/8/2022	16:45	48.5	90
Wed	17/8/2022	16:50	53.2	90
Wed	17/8/2022	16:55	56.7	90
Wed	17/8/2022	17:00	54.9	90
Wed	17/8/2022	17:05	50	90
Wed	17/8/2022	17:10	47.1	90
Wed	17/8/2022	17:15	48.3	90
Wed	17/8/2022	17:20	50.4	90
Wed	17/8/2022	17:25	55.6	90
Wed	17/8/2022	17:30	60.5	90
Wed	17/8/2022	17:35	46.2	90
Wed	17/8/2022	17:40	49.2	90
Wed	17/8/2022	17:45	46.6	90
Wed	17/8/2022	17:50	49.4	90
Wed	17/8/2022	17:55	47.1	90
Wed	17/8/2022	18:00	47.4	90
Wed	17/8/2022	18:05	48.4	90
Wed	17/8/2022	18:10	55.1	90
Wed	17/8/2022	18:15	46	90
Wed	17/8/2022	18:20	49.7	90
Wed	17/8/2022	18:25	60.8	90
Wed	17/8/2022	18:30	49.2	90
Wed	17/8/2022	18:35	57.1	90
Wed	17/8/2022	18:40	64.6	90
Wed	17/8/2022	18:45	67.5	90
Wed	17/8/2022	18:50	62.2	90
Wed	17/8/2022	18:55	65.6	90
Wed	17/8/2022	19:00	61.9	70
Wed	17/8/2022	19:05	72.5	70
Wed	17/8/2022	19:10	58.2	70
Wed	17/8/2022	19:15	64.5	70
Wed	17/8/2022	19:20	58.4	70
Wed	17/8/2022	19:25	56.7	70
Wed	17/8/2022	19:30	50.5	70
Wed	17/8/2022	19:35	51.6	70
Wed	17/8/2022	19:40	52.5	70
Wed	17/8/2022	19:45	47.9	70
Wed	17/8/2022	19:50	48.8	70
Wed	17/8/2022	19:55	58.7	70
Wed	17/8/2022	20:00	47.7	70

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	16:25	50.6	75
Sun	14/8/2022	16:30	60.9	75
Sun	14/8/2022	16:35	54.1	75
Sun	14/8/2022	16:40	52	75
Sun	14/8/2022	16:45	51.3	75
Sun	14/8/2022	16:50	50.6	75
Sun	14/8/2022	16:55	50.8	75
Sun	14/8/2022	17:00	55.1	75
Sun	14/8/2022	17:05	59.2	75
Sun	14/8/2022	17:10	48	75
Sun	14/8/2022	17:15	49.8	75
Sun	14/8/2022	17:20	50.8	75
Sun	14/8/2022	17:25	49.8	75
Sun	14/8/2022	17:30	54.2	75
Sun	14/8/2022	17:35	51.9	75
Sun	14/8/2022	17:40	49.5	75
Sun	14/8/2022	17:45	52.7	75
Sun	14/8/2022	17:50	54.1	75
Sun	14/8/2022	17:55	48.8	75
Sun	14/8/2022	18:00	58.3	75
Sun	14/8/2022	18:05	56.3	75
Sun	14/8/2022	18:10	52.3	75
Sun	14/8/2022	18:15	46.9	75
Sun	14/8/2022	18:20	48.9	75
Sun	14/8/2022	18:25	48.9	75
Sun	14/8/2022	18:30	53.7	75
Sun	14/8/2022	18:35	49.9	75
Sun	14/8/2022	18:40	48.1	75
Sun	14/8/2022	18:45	51.9	75
Sun	14/8/2022	18:50	50	75
Sun	14/8/2022	18:55	48.7	75
Sun	14/8/2022	19:00	54	75
Sun	14/8/2022	19:05	54.4	55
Sun	14/8/2022	19:10	54.9	55
Sun	14/8/2022	19:15	52.5	55
Sun	14/8/2022	19:20	58.2	55
Sun	14/8/2022	19:25	51.8	55
Sun	14/8/2022	19:30	53.9	55
Sun	14/8/2022	19:35	57.9	55
Sun	14/8/2022	19:40	49.4	55
Sun	14/8/2022	19:45	48.1	55
Sun	14/8/2022	19:50	52.5	55
Sun	14/8/2022	19:55	48.2	55
Sun	14/8/2022	20:00	51	55

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Wed	17/8/2022	20:05	50.9	70
Wed	17/8/2022	20:10	47.7	70
Wed	17/8/2022	20:15	49.6	70
Wed	17/8/2022	20:20	49.5	70
Wed	17/8/2022	20:25	49.9	70
Wed	17/8/2022	20:30	49.9	70
Wed	17/8/2022	20:35	49.9	70
Wed	17/8/2022	20:40	49	70
Wed	17/8/2022	20:45	51.1	70
Wed	17/8/2022	20:50	52.4	70
Wed	17/8/2022	20:55	53.1	70
Wed	17/8/2022	21:00	53.8	70
Wed	17/8/2022	21:05	53.9	70
Wed	17/8/2022	21:10	55.1	70
Wed	17/8/2022	21:15	54	70
Wed	17/8/2022	21:20	55.2	70
Wed	17/8/2022	21:25	53.4	70
Wed	17/8/2022	21:30	52.9	70
Wed	17/8/2022	21:35	52.9	70
Wed	17/8/2022	21:40	52.7	70
Wed	17/8/2022	21:45	52.1	70
Wed	17/8/2022	21:50	52.3	70
Wed	17/8/2022	21:55	53.5	70
Wed	17/8/2022	22:00	51	70
Wed	17/8/2022	22:05	50.9	70
Wed	17/8/2022	22:10	51.6	70
Wed	17/8/2022	22:15	52.6	70
Wed	17/8/2022	22:20	51.4	70
Wed	17/8/2022	22:25	51.5	70
Wed	17/8/2022	22:30	51.1	70
Wed	17/8/2022	22:35	55.1	70
Wed	17/8/2022	22:40	50.6	70
Wed	17/8/2022	22:45	51.3	70
Wed	17/8/2022	22:50	49.9	70
Wed	17/8/2022	22:55	50.5	70
Wed	17/8/2022	23:00	50.1	70
Wed	17/8/2022	23:05	49.5	70
Wed	17/8/2022	23:10	49.6	70
Wed	17/8/2022	23:15	51.6	70
Wed	17/8/2022	23:20	49.7	70
Wed	17/8/2022	23:25	49.4	70
Wed	17/8/2022	23:30	49.2	70
Wed	17/8/2022	23:35	48.5	70
Wed	17/8/2022	23:40	48.1	70

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	20:05	51.7	55
Sun	14/8/2022	20:10	49	55
Sun	14/8/2022	20:15	55.3	55
Sun	14/8/2022	20:20	51.3	55
Sun	14/8/2022	20:25	50.2	55
Sun	14/8/2022	20:30	51.9	55
Sun	14/8/2022	20:35	51.9	55
Sun	14/8/2022	20:40	54.7	55
Sun	14/8/2022	20:45	53.8	55
Sun	14/8/2022	20:50	52.4	55
Sun	14/8/2022	20:55	52.8	55
Sun	14/8/2022	21:00	52.9	55
Sun	14/8/2022	21:05	52.9	55
Sun	14/8/2022	21:10	55.1	55
Sun	14/8/2022	21:15	53.6	55
Sun	14/8/2022	21:20	54.6	55
Sun	14/8/2022	21:25	51.9	55
Sun	14/8/2022	21:30	52.7	55
Sun	14/8/2022	21:35	53.3	55
Sun	14/8/2022	21:40	52.7	55
Sun	14/8/2022	21:45	52.1	55
Sun	14/8/2022	21:50	52.5	55
Sun	14/8/2022	21:55	53.2	55
Sun	14/8/2022	22:00	56.1	55
Sun	14/8/2022	22:05	54.7	55
Sun	14/8/2022	22:10	55.2	55
Sun	14/8/2022	22:15	55.7	55
Sun	14/8/2022	22:20	56.1	55
Sun	14/8/2022	22:25	56.7	55
Sun	14/8/2022	22:30	56.9	55
Sun	14/8/2022	22:35	57.1	55
Sun	14/8/2022	22:40	57.5	55
Sun	14/8/2022	22:45	57.8	55
Sun	14/8/2022	22:50	58.3	55
Sun	14/8/2022	22:55	58.5	55
Sun	14/8/2022	23:00	58.6	55
Sun	14/8/2022	23:05	58.7	55
Sun	14/8/2022	23:10	58.9	55
Sun	14/8/2022	23:15	58.9	55
Sun	14/8/2022	23:20	58.8	55
Sun	14/8/2022	23:25	59	55
Sun	14/8/2022	23:30	59.2	55
Sun	14/8/2022	23:35	59.1	55
Sun	14/8/2022	23:40	59.2	55

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Wed	17/8/2022	23:45	48.7	70
Wed	17/8/2022	23:50	49.1	70
Wed	17/8/2022	23:55	48.3	70
Thu	18/8/2022	00:00	49.4	70
Thu	18/8/2022	00:05	48.7	70
Thu	18/8/2022	00:10	47.9	70
Thu	18/8/2022	00:15	47.5	70
Thu	18/8/2022	00:20	47	70
Thu	18/8/2022	00:25	48.1	70
Thu	18/8/2022	00:30	47.7	70
Thu	18/8/2022	00:35	48.2	70
Thu	18/8/2022	00:40	47.9	70
Thu	18/8/2022	00:45	48.9	70
Thu	18/8/2022	00:50	48.5	70
Thu	18/8/2022	00:55	47.7	70
Thu	18/8/2022	01:00	47.3	70
Thu	18/8/2022	01:05	48.9	70
Thu	18/8/2022	01:10	50.2	70
Thu	18/8/2022	01:15	46.9	70
Thu	18/8/2022	01:20	47.3	70
Thu	18/8/2022	01:25	46.3	70
Thu	18/8/2022	01:30	46.9	70
Thu	18/8/2022	01:35	47.5	70
Thu	18/8/2022	01:40	47.1	70
Thu	18/8/2022	01:45	47.6	70
Thu	18/8/2022	01:50	47.5	70
Thu	18/8/2022	01:55	46.5	70
Thu	18/8/2022	02:00	46.8	70
Thu	18/8/2022	02:05	45.2	70
Thu	18/8/2022	02:10	47.1	70
Thu	18/8/2022	02:15	45.8	70
Thu	18/8/2022	02:20	46	70
Thu	18/8/2022	02:25	45.8	70
Thu	18/8/2022	02:30	45.9	70
Thu	18/8/2022	02:35	45.7	70
Thu	18/8/2022	02:40	45.6	70
Thu	18/8/2022	02:45	47.4	70
Thu	18/8/2022	02:50	48.7	70
Thu	18/8/2022	02:55	46.1	70
Thu	18/8/2022	03:00	46.7	70
Thu	18/8/2022	03:05	46.8	70
Thu	18/8/2022	03:10	46.6	70
Thu	18/8/2022	03:15	46.1	70
Thu	18/8/2022	03:20	46.1	70

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Sun	14/8/2022	23:45	59	55
Sun	14/8/2022	23:50	59.1	55
Sun	14/8/2022	23:55	59.5	55
Mon	15/8/2022	00:00	59.2	55
Mon	15/8/2022	00:05	59.2	55
Mon	15/8/2022	00:10	59.1	55
Mon	15/8/2022	00:15	59	55
Mon	15/8/2022	00:20	58.9	55
Mon	15/8/2022	00:25	58.8	55
Mon	15/8/2022	00:30	58.8	55
Mon	15/8/2022	00:35	59	55
Mon	15/8/2022	00:40	58.7	55
Mon	15/8/2022	00:45	58.4	55
Mon	15/8/2022	00:50	58.3	55
Mon	15/8/2022	00:55	58.2	55
Mon	15/8/2022	01:00	58	55
Mon	15/8/2022	01:05	57.6	55
Mon	15/8/2022	01:10	57.6	55
Mon	15/8/2022	01:15	57.4	55
Mon	15/8/2022	01:20	57.2	55
Mon	15/8/2022	01:25	56.9	55
Mon	15/8/2022	01:30	57.2	55
Mon	15/8/2022	01:35	57	55
Mon	15/8/2022	01:40	56.6	55
Mon	15/8/2022	01:45	56.2	55
Mon	15/8/2022	01:50	55.8	55
Mon	15/8/2022	01:55	55.1	55
Mon	15/8/2022	02:00	54.9	55
Mon	15/8/2022	02:05	54.5	55
Mon	15/8/2022	02:10	53.9	55
Mon	15/8/2022	02:15	53.6	55
Mon	15/8/2022	02:20	53.1	55
Mon	15/8/2022	02:25	51.8	55
Mon	15/8/2022	02:30	52.6	55
Mon	15/8/2022	02:35	52.7	55
Mon	15/8/2022	02:40	51.7	55
Mon	15/8/2022	02:45	51.7	55
Mon	15/8/2022	02:50	51	55
Mon	15/8/2022	02:55	50.4	55
Mon	15/8/2022	03:00	50.8	55
Mon	15/8/2022	03:05	51.2	55
Mon	15/8/2022	03:10	51.4	55
Mon	15/8/2022	03:15	52.2	55
Mon	15/8/2022	03:20	50.9	55

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Thu	18/8/2022	03:25	47.1	70
Thu	18/8/2022	03:30	47.3	70
Thu	18/8/2022	03:35	44.5	70
Thu	18/8/2022	03:40	46.9	70
Thu	18/8/2022	03:45	46.2	70
Thu	18/8/2022	03:50	46.6	70
Thu	18/8/2022	03:55	46	70
Thu	18/8/2022	04:00	46	70
Thu	18/8/2022	04:05	46.5	70
Thu	18/8/2022	04:10	45.5	70
Thu	18/8/2022	04:15	44	70
Thu	18/8/2022	04:20	45.2	70
Thu	18/8/2022	04:25	44.6	70
Thu	18/8/2022	04:30	45.4	70
Thu	18/8/2022	04:35	44.3	70
Thu	18/8/2022	04:40	44.3	70
Thu	18/8/2022	04:45	46.5	70
Thu	18/8/2022	04:50	44.8	70
Thu	18/8/2022	04:55	44	70
Thu	18/8/2022	05:00	45.1	70
Thu	18/8/2022	05:05	44.8	70
Thu	18/8/2022	05:10	45.3	70
Thu	18/8/2022	05:15	44.8	70
Thu	18/8/2022	05:20	46.2	70
Thu	18/8/2022	05:25	45.9	70
Thu	18/8/2022	05:30	44.5	70
Thu	18/8/2022	05:35	46.3	70
Thu	18/8/2022	05:40	44.9	70
Thu	18/8/2022	05:45	44.9	70
Thu	18/8/2022	05:50	48.5	70
Thu	18/8/2022	05:55	44.9	70
Thu	18/8/2022	06:00	44.3	70
Thu	18/8/2022	06:05	44.2	70
Thu	18/8/2022	06:10	45.1	70
Thu	18/8/2022	06:15	45.3	70
Thu	18/8/2022	06:20	44.1	70
Thu	18/8/2022	06:25	44.2	70
Thu	18/8/2022	06:30	44.5	70
Thu	18/8/2022	06:35	45.5	70
Thu	18/8/2022	06:40	45.2	70
Thu	18/8/2022	06:45	45.6	70
Thu	18/8/2022	06:50	45.8	70
Thu	18/8/2022	06:55	46	70
Thu	18/8/2022	07:00	47.6	90

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Mon	15/8/2022	03:25	51.6	55
Mon	15/8/2022	03:30	50.4	55
Mon	15/8/2022	03:35	52.7	55
Mon	15/8/2022	03:40	51.6	55
Mon	15/8/2022	03:45	50.7	55
Mon	15/8/2022	03:50	49.9	55
Mon	15/8/2022	03:55	50.2	55
Mon	15/8/2022	04:00	51	55
Mon	15/8/2022	04:05	50.8	55
Mon	15/8/2022	04:10	51.5	55
Mon	15/8/2022	04:15	52	55
Mon	15/8/2022	04:20	51.7	55
Mon	15/8/2022	04:25	50.9	55
Mon	15/8/2022	04:30	50.9	55
Mon	15/8/2022	04:35	51.3	55
Mon	15/8/2022	04:40	50.5	55
Mon	15/8/2022	04:45	48.9	55
Mon	15/8/2022	04:50	48.1	55
Mon	15/8/2022	04:55	54.8	55
Mon	15/8/2022	05:00	54.1	55
Mon	15/8/2022	05:05	64.1	55
Mon	15/8/2022	05:10	50.8	55
Mon	15/8/2022	05:15	56.6	55
Mon	15/8/2022	05:20	51.7	55
Mon	15/8/2022	05:25	49.7	55
Mon	15/8/2022	05:30	51.6	55
Mon	15/8/2022	05:35	65.8	55
Mon	15/8/2022	05:40	59	55
Mon	15/8/2022	05:45	48.6	55
Mon	15/8/2022	05:50	55.8	55
Mon	15/8/2022	05:55	50.4	55
Mon	15/8/2022	06:00	58.3	55
Mon	15/8/2022	06:05	53.9	55
Mon	15/8/2022	06:10	54	55
Mon	15/8/2022	06:15	51.2	55
Mon	15/8/2022	06:20	49.9	55
Mon	15/8/2022	06:25	56.7	55
Mon	15/8/2022	06:30	55.8	55
Mon	15/8/2022	06:35	52.3	55
Mon	15/8/2022	06:40	55.5	55
Mon	15/8/2022	06:45	49.2	55
Mon	15/8/2022	06:50	48.8	55
Mon	15/8/2022	06:55	56.2	55
Mon	15/8/2022	07:00	55.3	55

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Thu	18/8/2022	07:05	46.9	90
Thu	18/8/2022	07:10	45.9	90
Thu	18/8/2022	07:15	46.1	90
Thu	18/8/2022	07:20	47.7	90
Thu	18/8/2022	07:25	47.6	90
Thu	18/8/2022	07:30	49.2	90
Thu	18/8/2022	07:35	50.3	90
Thu	18/8/2022	07:40	50.9	90
Thu	18/8/2022	07:45	52.7	90
Thu	18/8/2022	07:50	54.2	90
Thu	18/8/2022	07:55	53.5	90
Thu	18/8/2022	08:00	53.1	90
Thu	18/8/2022	08:05	53	90
Thu	18/8/2022	08:10	53.4	90
Thu	18/8/2022	08:15	54.1	90
Thu	18/8/2022	08:20	53.7	90
Thu	18/8/2022	08:25	53.8	90
Thu	18/8/2022	08:30	52.8	90
Thu	18/8/2022	08:35	57.6	90
Thu	18/8/2022	08:40	52.9	90
Thu	18/8/2022	08:45	57.4	90
Thu	18/8/2022	08:50	53.9	90
Thu	18/8/2022	08:55	56.3	90
Thu	18/8/2022	09:00	56.3	90
Thu	18/8/2022	09:05	53.5	90
Thu	18/8/2022	09:10	57.6	90
Thu	18/8/2022	09:15	54.2	90
Thu	18/8/2022	09:20	49.2	90
Thu	18/8/2022	09:25	49.6	90
Thu	18/8/2022	09:30	50.1	90
Thu	18/8/2022	09:35	47.9	90
Thu	18/8/2022	09:40	50.6	90
Thu	18/8/2022	09:45	47.6	90
Thu	18/8/2022	09:50	50	90
Thu	18/8/2022	09:55	51.4	90
Thu	18/8/2022	10:00	51.3	90
Thu	18/8/2022	10:05	48.7	90
Thu	18/8/2022	10:10	48	90
Thu	18/8/2022	10:15	47.3	90
Thu	18/8/2022	10:20	50.7	90
Thu	18/8/2022	10:25	51.8	90
Thu	18/8/2022	10:30	60.6	90
Thu	18/8/2022	10:35	47.1	90
Thu	18/8/2022	10:40	47.2	90

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Mon	15/8/2022	07:05	53.9	90
Mon	15/8/2022	07:10	49.7	90
Mon	15/8/2022	07:15	51.3	90
Mon	15/8/2022	07:20	58.3	90
Mon	15/8/2022	07:25	57.6	90
Mon	15/8/2022	07:30	54.1	90
Mon	15/8/2022	07:35	57.9	90
Mon	15/8/2022	07:40	53.4	90
Mon	15/8/2022	07:45	53.1	90
Mon	15/8/2022	07:50	52.5	90
Mon	15/8/2022	07:55	52.5	90
Mon	15/8/2022	08:00	58.9	90
Mon	15/8/2022	08:05	57.2	90
Mon	15/8/2022	08:10	55.8	90
Mon	15/8/2022	08:15	49	90
Mon	15/8/2022	08:20	54.3	90
Mon	15/8/2022	08:25	58.8	90
Mon	15/8/2022	08:30	55.2	90
Mon	15/8/2022	08:35	50.8	90
Mon	15/8/2022	08:40	50.8	90
Mon	15/8/2022	08:45	58.8	90
Mon	15/8/2022	08:50	57.1	90
Mon	15/8/2022	08:55	56.8	90
Mon	15/8/2022	09:00	58.6	90
Mon	15/8/2022	09:05	57.3	90
Mon	15/8/2022	09:10	56.7	90
Mon	15/8/2022	09:15	55.1	90
Mon	15/8/2022	09:20	56	90
Mon	15/8/2022	09:25	60.1	90
Mon	15/8/2022	09:30	59.4	90
Mon	15/8/2022	09:35	57.9	90
Mon	15/8/2022	09:40	57.2	90
Mon	15/8/2022	09:45	61.9	90
Mon	15/8/2022	09:50	57.6	90
Mon	15/8/2022	09:55	55.6	90
Mon	15/8/2022	10:00	64.6	90
Mon	15/8/2022	10:05	49.3	90
Mon	15/8/2022	10:10	51.1	90
Mon	15/8/2022	10:15	56.1	90
Mon	15/8/2022	10:20	56	90
Mon	15/8/2022	10:25	61.4	90
Mon	15/8/2022	10:30	64	90
Mon	15/8/2022	10:35	66	90
Mon	15/8/2022	10:40	65.7	90

Noise data from Station N3

11-18 Aug 2022

Day	Date	Time	Leq	Limit
Thu	18/8/2022	10:45	70.2	90
Thu	18/8/2022	10:50	47.2	90
Thu	18/8/2022	10:55	48.5	90
Thu	18/8/2022	11:00	47.5	90
Thu	18/8/2022	11:05	48.2	90
Thu	18/8/2022	11:10	57	90
Thu	18/8/2022	11:15	48.7	90
Thu	18/8/2022	11:20	46.8	90
Thu	18/8/2022	11:25	45.8	90
Thu	18/8/2022	11:30	49.8	90
Thu	18/8/2022	11:35	45.6	90
Thu	18/8/2022	11:40	50.5	90
Thu	18/8/2022	11:45	46.7	90
Thu	18/8/2022	11:50	44.6	90
Thu	18/8/2022	11:55	45.8	90
Thu	18/8/2022	12:00	47.5	90
Thu	18/8/2022	12:05	48.6	90
Thu	18/8/2022	12:10	47.5	90
Thu	18/8/2022	12:15	47.3	90
Thu	18/8/2022	12:20	58.6	90
Thu	18/8/2022	12:25	43.7	90
Thu	18/8/2022	12:30	48.5	90
Thu	18/8/2022	12:35	49.6	90
Thu	18/8/2022	12:40	49.7	90
Thu	18/8/2022	12:45	47.7	90
Thu	18/8/2022	12:50	51.4	90
Thu	18/8/2022	12:55	51.2	90
Thu	18/8/2022	13:00	45.1	90
Thu	18/8/2022	13:05	51	90
Thu	18/8/2022	13:10	44	90
Thu	18/8/2022	13:15	39.5	90
Thu	18/8/2022	13:20	41.4	90
Thu	18/8/2022	13:25	41.2	90
Thu	18/8/2022	13:30	44.6	90
Thu	18/8/2022	13:35	48.2	90
Thu	18/8/2022	13:40	46.3	90
Thu	18/8/2022	13:45	60.5	90
Thu	18/8/2022	13:50	53.1	90
Thu	18/8/2022	13:55	50.6	90

Noise data from Station N4

8-15 Aug 2022

Day	Date	Time	Leq	Limit
Mon	15/8/2022	10:45	65.9	90
Mon	15/8/2022	10:50	65.7	90
Mon	15/8/2022	10:55	65.9	90
Mon	15/8/2022	11:00	68.1	90
Mon	15/8/2022	11:05	56.2	90
Mon	15/8/2022	11:10	52.7	90
Mon	15/8/2022	11:15	56.1	90
Mon	15/8/2022	11:20	53.7	90
Mon	15/8/2022	11:25	57.2	90
Mon	15/8/2022	11:30	50.5	90
Mon	15/8/2022	11:35	53.5	90
Mon	15/8/2022	11:40	51	90
Mon	15/8/2022	11:45	58.7	90
Mon	15/8/2022	11:50	53.7	90
Mon	15/8/2022	11:55	52.2	90
Mon	15/8/2022	12:00	53.8	90
Mon	15/8/2022	12:05	54.5	90
Mon	15/8/2022	12:10	61	90
Mon	15/8/2022	12:15	52.8	90
Mon	15/8/2022	12:20	56.3	90
Mon	15/8/2022	12:25	60.6	90
Mon	15/8/2022	12:30	65.3	90
Mon	15/8/2022	12:35	64.6	90
Mon	15/8/2022	12:40	61.8	90
Mon	15/8/2022	12:45	50.1	90
Mon	15/8/2022	12:50	58.8	90
Mon	15/8/2022	12:55	56.9	90
Mon	15/8/2022	13:00	55.8	90
Mon	15/8/2022	13:05	51.5	90
Mon	15/8/2022	13:10	55.5	90
Mon	15/8/2022	13:15	58.5	90
Mon	15/8/2022	13:20	55.6	90
Mon	15/8/2022	13:25	65.4	90
Mon	15/8/2022	13:30	63.1	90
Mon	15/8/2022	13:35	56	90
Mon	15/8/2022	13:40	58.2	90
Mon	15/8/2022	13:45	57.1	90
Mon	15/8/2022	13:50	69.3	90
Mon	15/8/2022	13:55	67.7	90

APPENDIX H

Baseline Ambient Air Quality Monitoring Data

Air Quality Monitoring Data from Station A1
12 August to 19 August 2022

Equipment: Oceanus OC-1000

Date	Time	PM10 (µg/m3)	PM2.5 (µg/m3)	CO (µg/m3)	O3 (µg/m3)	NO2 (µg/m3)	SO2(µg/m3)
12/8/2022	2:05:31 pm	4.0	4.0	0.3	0.0	0.0	0.1
12/8/2022	2:16:00 pm	2.0	1.0	0.2	0.0	0.0	0.1
12/8/2022	2:26:30 pm	1.0	1.0	0.2	0.0	0.0	0.1
12/8/2022	2:37:00 pm	2.0	2.0	0.1	0.0	0.0	0.1
12/8/2022	2:47:30 pm	2.0	2.0	0.2	0.0	0.0	0.1
12/8/2022	2:58:00 pm	3.0	3.0	0.4	0.0	0.0	0.1
12/8/2022	3:08:30 pm	1.0	1.0	0.6	0.0	0.0	0.1
12/8/2022	3:19:00 pm	1.0	1.0	0.7	0.0	0.0	0.1
12/8/2022	3:29:30 pm	5.0	4.0	0.8	0.0	0.0	0.1
12/8/2022	3:40:00 pm	4.0	4.0	0.7	0.0	0.0	0.1
12/8/2022	3:50:30 pm	4.0	4.0	0.8	0.0	0.0	0.1
12/8/2022	4:01:00 pm	8.0	8.0	0.6	0.0	0.0	0.1
12/8/2022	4:11:30 pm	6.0	6.0	0.7	0.0	0.0	0.1
12/8/2022	4:22:00 pm	4.0	3.0	0.8	0.0	0.0	0.1
12/8/2022	4:32:30 pm	3.0	2.0	1.0	0.0	0.0	0.1
12/8/2022	4:43:00 pm	5.0	5.0	1.0	0.0	0.0	0.1
12/8/2022	4:53:30 pm	6.0	5.0	0.7	0.0	0.0	0.1
12/8/2022	5:04:00 pm	3.0	3.0	0.4	0.0	0.0	0.1
12/8/2022	5:14:30 pm	5.0	4.0	0.3	0.0	0.0	0.1
12/8/2022	5:25:00 pm	4.0	4.0	0.1	0.0	0.0	0.1
12/8/2022	5:35:30 pm	4.0	4.0	0.0	0.0	0.0	0.1
12/8/2022	5:46:00 pm	4.0	4.0	0.0	0.0	0.0	0.1
12/8/2022	5:56:30 pm	4.0	3.0	0.0	0.0	0.0	0.1
12/8/2022	6:07:00 pm	4.0	4.0	0.0	0.0	0.0	0.1
12/8/2022	6:17:30 pm	4.0	4.0	0.0	0.0	0.0	0.1
12/8/2022	6:28:00 pm	5.0	4.0	0.0	0.0	0.0	0.1
12/8/2022	6:38:30 pm	7.0	5.0	0.0	0.0	0.0	0.1
12/8/2022	6:49:00 pm	5.0	4.0	0.0	0.0	0.0	0.1
12/8/2022	6:59:30 pm	4.0	3.0	0.0	0.0	0.0	0.1
12/8/2022	7:10:00 pm	5.0	5.0	0.0	0.0	0.0	0.1
12/8/2022	7:20:30 pm	4.0	3.0	0.0	0.0	0.0	0.1
12/8/2022	7:31:00 pm	4.0	4.0	0.1	0.0	0.0	0.1
12/8/2022	7:41:30 pm	3.0	3.0	0.1	0.0	0.0	0.1
12/8/2022	7:52:00 pm	4.0	3.0	0.1	0.0	0.0	0.1
12/8/2022	8:02:30 pm	3.0	3.0	0.1	0.0	0.0	0.1
12/8/2022	8:13:00 pm	4.0	4.0	0.0	0.0	0.0	0.1
12/8/2022	8:23:30 pm	5.0	5.0	0.0	0.0	0.0	0.1
12/8/2022	8:34:00 pm	5.0	4.0	0.0	0.0	0.0	0.1
12/8/2022	8:44:30 pm	5.0	4.0	0.0	0.0	0.0	0.1
12/8/2022	8:55:00 pm	2.0	2.0	0.0	0.0	0.0	0.1
12/8/2022	9:05:30 pm	1.0	1.0	0.2	0.0	0.0	0.1
12/8/2022	9:16:00 pm	2.0	1.0	0.2	0.0	0.0	0.1
12/8/2022	9:26:30 pm	3.0	2.0	0.3	0.0	0.0	0.1
12/8/2022	9:37:00 pm	2.0	1.0	0.4	0.0	0.0	0.1
12/8/2022	9:47:30 pm	0.0	0.0	0.4	0.0	0.0	0.1
12/8/2022	9:57:59 pm	1.0	0.0	0.5	0.0	0.0	0.1
12/8/2022	10:08:30 pm	1.0	1.0	0.5	0.0	0.0	0.1

Air Quality Monitoring Data from Station A1
12 August to 19 August 2022

Equipment: Oceanus OC-1000

12/8/2022	10:18:59 pm	0.0	0.0	0.5	0.0	0.0	0.1
12/8/2022	10:29:30 pm	0.0	0.0	0.5	0.0	0.0	0.1
12/8/2022	10:40:00 pm	1.0	1.0	0.4	0.0	0.0	0.1
12/8/2022	10:50:30 pm	0.0	0.0	0.5	0.0	0.0	0.1
12/8/2022	11:00:59 pm	1.0	0.0	0.5	0.0	0.0	0.1
12/8/2022	11:11:29 pm	1.0	0.0	0.5	0.0	0.0	0.1
12/8/2022	11:21:59 pm	0.0	0.0	0.5	0.0	0.0	0.1
12/8/2022	11:32:29 pm	0.0	0.0	0.4	0.0	0.0	0.1
12/8/2022	11:42:59 pm	0.0	0.0	0.5	0.0	0.0	0.1
12/8/2022	11:53:29 pm	1.0	1.0	0.5	0.0	0.0	0.1
13/8/2022	12:03:59 am	1.0	1.0	0.5	0.0	0.0	0.1
13/8/2022	12:14:29 am	0.0	0.0	0.5	0.0	0.0	0.1
13/8/2022	12:24:59 am	0.0	0.0	0.4	0.0	0.0	0.1
13/8/2022	12:35:29 am	0.0	0.0	0.4	0.0	0.0	0.1
13/8/2022	12:45:59 am	0.0	0.0	0.5	0.0	0.0	0.1
13/8/2022	12:56:29 am	0.0	0.0	0.5	0.0	0.0	0.1
13/8/2022	1:06:59 am	1.0	0.0	0.5	0.0	0.0	0.1
13/8/2022	1:17:29 am	1.0	0.0	0.5	0.0	0.0	0.1
13/8/2022	1:27:59 am	0.0	0.0	0.5	0.0	0.0	0.1
13/8/2022	1:38:29 am	1.0	0.0	0.5	0.0	0.0	0.1
13/8/2022	1:48:59 am	0.0	0.0	0.4	0.0	0.0	0.0
13/8/2022	1:59:29 am	0.0	0.0	0.4	0.0	0.0	0.0
13/8/2022	2:09:59 am	0.0	0.0	0.4	0.0	0.0	0.0
13/8/2022	2:20:29 am	0.0	0.0	0.5	0.0	0.0	0.0
13/8/2022	2:30:59 am	0.0	0.0	0.4	0.0	0.0	0.0
13/8/2022	2:41:29 am	0.0	0.0	0.5	0.0	0.0	0.0
13/8/2022	2:51:59 am	15.0	12.0	0.8	0.0	0.0	0.0
13/8/2022	3:02:29 am	0.0	0.0	0.9	0.0	0.0	0.0
13/8/2022	3:12:59 am	0.0	0.0	1.1	0.0	0.0	0.1
13/8/2022	3:23:29 am	0.0	0.0	1.2	0.0	0.0	0.1
13/8/2022	3:33:59 am	7.0	5.0	1.2	0.0	0.0	0.1
13/8/2022	3:44:29 am	0.0	0.0	1.2	0.0	0.0	0.1
13/8/2022	3:54:59 am	0.0	0.0	0.9	0.0	0.0	0.1
13/8/2022	4:05:29 am	0.0	0.0	1.1	0.0	0.0	0.1
13/8/2022	4:15:59 am	0.0	0.0	0.9	0.0	0.0	0.1
13/8/2022	4:26:29 am	0.0	0.0	0.9	0.0	0.0	0.1
13/8/2022	4:36:59 am	5.0	1.0	0.6	0.0	0.0	0.1
13/8/2022	4:47:29 am	4.0	1.0	0.4	0.0	0.0	0.1
13/8/2022	4:57:59 am	6.0	1.0	0.3	0.0	0.0	0.1
13/8/2022	5:08:29 am	0.0	0.0	0.3	0.0	0.0	0.1
13/8/2022	5:18:59 am	0.0	0.0	0.2	0.0	0.0	0.1
13/8/2022	5:29:29 am	0.0	0.0	0.2	0.0	0.0	0.1
13/8/2022	5:39:59 am	0.0	0.0	0.1	0.0	0.0	0.1
13/8/2022	5:50:29 am	0.0	0.0	0.2	0.0	0.0	0.1
13/8/2022	6:00:59 am	0.0	0.0	0.4	0.0	0.0	0.1
13/8/2022	6:11:29 am	0.0	0.0	0.6	0.0	0.0	0.1
13/8/2022	6:21:59 am	0.0	0.0	0.6	0.0	0.0	0.1
13/8/2022	6:32:29 am	0.0	0.0	0.7	0.0	0.0	0.1

Air Quality Monitoring Data from Station A1
12 August to 19 August 2022

Equipment: Oceanus OC-1000

13/8/2022	6:42:59 am	0.0	0.0	0.8	0.0	0.0	0.1
13/8/2022	6:53:29 am	0.0	0.0	0.7	0.0	0.0	0.1
13/8/2022	7:03:59 am	0.0	0.0	0.8	0.0	0.0	0.1
13/8/2022	7:14:29 am	0.0	0.0	0.6	0.0	0.0	0.1
13/8/2022	7:24:59 am	0.0	0.0	0.7	0.0	0.0	0.1
13/8/2022	7:35:29 am	0.0	0.0	0.8	0.0	0.0	0.1
13/8/2022	7:45:59 am	0.0	0.0	1.0	0.0	0.0	0.1
13/8/2022	7:56:29 am	0.0	0.0	1.0	0.0	0.0	0.1
13/8/2022	8:06:59 am	0.0	0.0	0.7	0.0	0.0	0.1
13/8/2022	8:17:29 am	0.0	0.0	0.4	0.0	0.0	0.1
13/8/2022	8:27:59 am	0.0	0.0	0.3	0.0	0.0	0.1
13/8/2022	8:38:29 am	0.0	0.0	0.1	0.0	0.0	0.1
13/8/2022	8:48:59 am	0.0	0.0	0.0	0.0	0.0	0.1
13/8/2022	8:59:29 am	0.0	0.0	0.0	0.0	0.0	0.1
13/8/2022	9:09:59 am	0.0	0.0	0.0	0.0	0.0	0.1
13/8/2022	9:20:29 am	0.0	0.0	0.0	0.0	0.0	0.1
13/8/2022	9:30:59 am	0.0	0.0	0.0	0.0	0.0	0.1
13/8/2022	9:41:29 am	0.0	0.0	1.1	0.0	0.0	0.1
13/8/2022	9:51:59 am	0.0	0.0	0.5	0.0	0.0	0.1
13/8/2022	10:02:29 am	15.0	10.0	0.8	0.0	0.0	0.1
13/8/2022	10:12:59 am	14.0	11.0	0.9	0.0	0.0	0.1
13/8/2022	10:23:29 am	15.0	10.0	1.1	0.0	0.0	0.1
13/8/2022	10:33:59 am	11.0	8.0	1.2	0.0	0.0	0.1
13/8/2022	10:44:29 am	10.0	7.0	1.2	0.0	0.0	0.1
13/8/2022	10:54:59 am	9.0	6.0	1.2	0.0	0.0	0.1
13/8/2022	11:05:29 am	8.0	5.0	1.0	0.0	0.0	0.1
13/8/2022	11:15:59 am	0.0	0.0	0.9	0.0	0.0	0.1
13/8/2022	11:26:29 am	0.0	0.0	1.1	0.0	0.0	0.1
13/8/2022	11:36:59 am	0.0	0.0	0.9	0.0	0.0	0.1
13/8/2022	11:47:29 am	0.0	0.0	0.9	0.0	0.0	0.1
13/8/2022	11:57:59 am	0.0	0.0	0.6	0.0	0.0	0.1
13/8/2022	12:08:29 pm	0.0	0.0	0.4	0.0	0.0	0.1
13/8/2022	12:18:59 pm	0.0	0.0	0.1	0.0	0.0	0.1
13/8/2022	12:29:29 pm	0.0	0.0	0.1	0.0	0.0	0.1
13/8/2022	12:39:59 pm	0.0	0.0	0.1	0.0	0.0	0.1
13/8/2022	12:50:29 pm	0.0	0.0	0.0	0.0	0.0	0.1
13/8/2022	1:00:59 pm	0.0	0.0	0.0	0.0	0.0	0.1
13/8/2022	1:11:29 pm	0.0	0.0	0.0	0.0	0.0	0.1
13/8/2022	1:21:59 pm	0.0	0.0	0.0	0.0	0.0	0.1
13/8/2022	1:32:29 pm	0.0	0.0	0.0	0.0	0.0	0.1
13/8/2022	1:42:59 pm	22.0	15.0	0.2	0.0	0.0	0.1
13/8/2022	1:53:29 pm	15.0	12.0	0.2	0.0	0.0	0.1
13/8/2022	2:03:59 pm	11.0	10.0	0.3	0.0	0.0	0.1
13/8/2022	2:14:29 pm	0.0	0.0	0.4	0.0	0.0	0.1
13/8/2022	2:24:59 pm	0.0	0.0	0.4	0.0	0.0	0.1
13/8/2022	2:35:29 pm	0.0	0.0	0.5	0.0	0.0	0.1
13/8/2022	2:45:59 pm	0.0	0.0	0.5	0.0	0.0	0.1
13/8/2022	2:56:29 pm	0.0	0.0	0.5	0.0	0.0	0.1

Air Quality Monitoring Data from Station A1
12 August to 19 August 2022

Equipment: Oceanus OC-1000

13/8/2022	3:06:59 pm	3.0	1.0	0.5	0.0	0.0	0.1
13/8/2022	3:17:29 pm	5.0	1.0	0.4	0.0	0.0	0.1
13/8/2022	3:27:59 pm	0.0	0.0	0.5	0.0	0.0	0.1
13/8/2022	3:38:29 pm	0.0	0.0	0.5	0.0	0.0	0.1
13/8/2022	3:48:59 pm	0.0	0.0	0.5	0.0	0.0	0.1
13/8/2022	3:59:29 pm	0.0	0.0	0.5	0.0	0.0	0.1
13/8/2022	4:09:59 pm	0.0	0.0	0.4	0.0	0.0	0.1
13/8/2022	4:20:29 pm	0.0	0.0	0.5	0.0	0.0	0.1
13/8/2022	4:30:59 pm	0.0	0.0	0.4	0.0	0.0	0.1
13/8/2022	4:41:29 pm	0.0	0.0	0.4	0.0	0.0	0.1
13/8/2022	4:51:59 pm	0.0	0.0	0.4	0.0	0.0	0.1
13/8/2022	5:02:29 pm	0.0	0.0	0.5	0.0	0.0	0.1
13/8/2022	5:12:59 pm	0.0	0.0	0.4	0.0	0.0	0.1
13/8/2022	5:23:29 pm	0.0	0.0	0.5	0.0	0.0	0.1
13/8/2022	5:33:59 pm	0.0	0.0	0.8	0.0	0.0	0.1
13/8/2022	5:44:29 pm	0.0	0.0	0.9	0.0	0.0	0.1
13/8/2022	5:54:59 pm	0.0	0.0	1.1	0.0	0.0	0.1
13/8/2022	6:05:29 pm	0.0	0.0	1.2	0.0	0.0	0.1
13/8/2022	6:15:59 pm	0.0	0.0	1.2	0.0	0.0	0.1
13/8/2022	6:26:29 pm	0.0	0.0	1.2	0.0	0.0	0.1
13/8/2022	6:36:59 pm	0.0	0.0	0.9	0.0	0.0	0.1
13/8/2022	6:47:29 pm	0.0	0.0	1.1	0.0	0.0	0.1
13/8/2022	6:57:59 pm	0.0	0.0	0.9	0.0	0.0	0.1
13/8/2022	7:08:29 pm	0.0	0.0	0.9	0.0	0.0	0.1
13/8/2022	7:18:59 pm	0.0	0.0	0.6	0.0	0.0	0.1
13/8/2022	7:29:29 pm	0.0	0.0	0.4	0.0	0.0	0.1
13/8/2022	7:39:59 pm	0.0	0.0	0.3	0.0	0.0	0.1
13/8/2022	7:50:29 pm	0.0	0.0	0.3	0.0	0.0	0.1
13/8/2022	8:00:59 pm	0.0	0.0	0.2	0.0	0.0	0.1
13/8/2022	8:11:29 pm	0.0	0.0	0.4	0.0	0.0	0.1
13/8/2022	8:21:59 pm	0.0	0.0	0.5	0.0	0.0	0.1
13/8/2022	8:32:29 pm	0.0	0.0	0.5	0.0	0.0	0.1
13/8/2022	8:42:59 pm	0.0	0.0	0.5	0.0	0.0	0.1
13/8/2022	8:53:29 pm	0.0	0.0	0.5	0.0	0.0	0.1
13/8/2022	9:03:59 pm	0.0	0.0	0.4	0.0	0.0	0.1
13/8/2022	9:14:29 pm	0.0	0.0	0.4	0.0	0.0	0.1
13/8/2022	9:24:59 pm	0.0	0.0	0.5	0.0	0.0	0.1
13/8/2022	9:35:29 pm	3.0	1.0	0.5	0.0	0.0	0.1
13/8/2022	9:45:59 pm	3.0	1.0	0.5	0.0	0.0	0.1
13/8/2022	9:56:29 pm	4.0	1.0	0.5	0.0	0.0	0.1
13/8/2022	10:06:59 pm	0.0	1.0	0.5	0.0	0.0	0.1
13/8/2022	10:17:29 pm	0.0	0.0	0.5	0.0	0.0	0.1
13/8/2022	10:27:59 pm	0.0	0.0	0.4	0.0	0.0	0.1
13/8/2022	10:38:29 pm	0.0	0.0	0.4	0.0	0.0	0.1
13/8/2022	10:48:59 pm	0.0	0.0	0.4	0.0	0.0	0.1
13/8/2022	10:59:29 pm	10.0	5.0	0.5	0.0	0.0	0.1
13/8/2022	11:09:59 pm	8.0	4.0	0.4	0.0	0.0	0.1
13/8/2022	11:20:29 pm	0.0	0.0	0.5	0.0	0.0	0.1

Air Quality Monitoring Data from Station A1
12 August to 19 August 2022

Equipment: Oceanus OC-1000

13/8/2022	11:30:59 pm	0.0	0.0	0.8	0.0	0.0	0.1
13/8/2022	11:41:29 pm	0.0	0.0	0.9	0.0	0.0	0.1
13/8/2022	11:51:59 pm	0.0	0.0	1.1	0.0	0.0	0.1
14/8/2022	12:02:29 am	0.0	0.0	1.2	0.0	0.0	0.1
14/8/2022	12:12:59 am	0.0	0.0	1.2	0.0	0.0	0.1
14/8/2022	12:23:29 am	0.0	0.0	0.4	0.0	0.0	0.1
14/8/2022	12:33:59 am	0.0	0.0	0.4	0.0	0.0	0.1
14/8/2022	12:44:29 am	0.0	0.0	0.4	0.0	0.0	0.1
14/8/2022	12:54:59 am	0.0	0.0	0.5	0.0	0.0	0.1
14/8/2022	1:05:29 am	0.0	0.0	0.4	0.0	0.0	0.1
14/8/2022	1:15:59 am	0.0	0.0	0.5	0.0	0.0	0.1
14/8/2022	1:26:29 am	0.0	0.0	0.8	0.0	0.0	0.1
14/8/2022	1:36:59 am	0.0	0.0	0.9	0.0	0.0	0.1
14/8/2022	1:47:29 am	0.0	0.0	1.1	0.0	0.0	0.1
14/8/2022	1:57:59 am	0.0	0.0	1.2	0.0	0.0	0.1
14/8/2022	2:08:29 am	0.0	0.0	1.2	0.0	0.0	0.1
14/8/2022	2:18:59 am	0.0	0.0	1.2	0.0	0.0	0.0
14/8/2022	2:29:29 am	0.0	0.0	0.9	0.0	0.0	0.0
14/8/2022	2:39:59 am	0.0	0.0	1.1	0.0	0.0	0.0
14/8/2022	2:50:29 am	25.0	18.0	0.9	0.0	0.0	0.0
14/8/2022	3:00:59 am	22.0	17.0	0.9	0.0	0.0	0.0
14/8/2022	3:11:29 am	21.0	16.0	0.6	0.0	0.0	0.1
14/8/2022	3:21:59 am	20.0	10.0	0.4	0.0	0.0	0.1
14/8/2022	3:32:29 am	13.0	8.0	0.3	0.0	0.0	0.1
14/8/2022	3:42:59 am	9.0	5.0	0.3	0.0	0.0	0.1
14/8/2022	3:53:29 am	0.0	0.0	0.2	0.0	0.0	0.1
14/8/2022	4:03:59 am	0.0	0.0	0.2	0.0	0.0	0.1
14/8/2022	4:14:29 am	0.0	0.0	0.1	0.0	0.0	0.1
14/8/2022	4:24:59 am	0.0	0.0	0.2	0.0	0.0	0.1
14/8/2022	4:35:29 am	0.0	0.0	0.4	0.0	0.0	0.1
14/8/2022	4:45:59 am	0.0	0.0	0.6	0.0	0.0	0.1
14/8/2022	4:56:29 am	0.0	0.0	0.6	0.0	0.0	0.1
14/8/2022	5:06:59 am	0.0	0.0	0.7	0.0	0.0	0.1
14/8/2022	5:17:29 am	0.0	0.0	0.8	0.0	0.0	0.1
14/8/2022	5:27:59 am	0.0	0.0	0.7	0.0	0.0	0.1
14/8/2022	5:38:29 am	0.0	0.0	0.8	0.0	0.0	0.1
14/8/2022	5:48:59 am	0.0	0.0	0.6	0.0	0.0	0.0
14/8/2022	5:59:29 am	0.0	0.0	0.4	0.0	0.0	0.0
14/8/2022	6:09:59 am	0.0	0.0	0.4	0.0	0.0	0.0
14/8/2022	6:20:29 am	0.0	0.0	0.4	0.0	0.0	0.0
14/8/2022	6:30:59 am	0.0	0.0	0.5	0.0	0.0	0.0
14/8/2022	6:41:29 am	0.0	0.0	0.4	0.0	0.0	0.0
14/8/2022	6:51:59 am	0.0	0.0	0.5	0.0	0.0	0.0
14/8/2022	7:02:29 am	0.0	0.0	0.8	0.0	0.0	0.0
14/8/2022	7:12:59 am	0.0	0.0	0.9	0.0	0.0	0.1
14/8/2022	7:23:29 am	0.0	0.0	1.1	0.0	0.0	0.1
14/8/2022	7:33:59 am	0.0	0.0	1.2	0.0	0.0	0.1
14/8/2022	7:44:29 am	0.0	0.0	1.2	0.0	0.0	0.1

Air Quality Monitoring Data from Station A1
12 August to 19 August 2022

Equipment: Oceanus OC-1000

14/8/2022	7:54:59 am	0.0	0.0	1.2	0.0	0.0	0.1
14/8/2022	8:05:29 am	0.0	0.0	0.9	0.0	0.0	0.1
14/8/2022	8:15:59 am	0.0	0.0	1.1	0.0	0.0	0.1
14/8/2022	8:26:29 am	0.0	0.0	0.9	0.0	0.0	0.1
14/8/2022	8:36:59 am	0.0	0.0	0.9	0.0	0.0	0.1
14/8/2022	8:47:29 am	0.0	0.0	0.6	0.0	0.0	0.1
14/8/2022	8:57:59 am	0.0	0.0	0.9	0.0	0.0	0.1
14/8/2022	9:08:29 am	0.0	0.0	1.1	0.0	0.0	0.1
14/8/2022	9:18:59 am	0.0	0.0	1.2	0.0	0.0	0.1
14/8/2022	9:29:29 am	0.0	0.0	1.2	0.0	0.0	0.1
14/8/2022	9:39:59 am	0.0	0.0	1.2	0.0	0.0	0.1
14/8/2022	9:50:29 am	0.0	0.0	0.9	0.0	0.0	0.1
14/8/2022	10:00:59 am	0.0	0.0	1.1	0.0	0.0	0.1
14/8/2022	10:11:29 am	0.0	0.0	0.9	0.0	0.0	0.1
14/8/2022	10:21:59 am	0.0	0.0	0.9	0.0	0.0	0.1
14/8/2022	10:32:29 am	0.0	0.0	0.6	0.0	0.0	0.1
14/8/2022	10:42:59 am	0.0	0.0	0.4	0.0	0.0	0.1
14/8/2022	10:53:29 am	0.0	0.0	0.3	0.0	0.0	0.1
14/8/2022	11:03:59 am	0.0	0.0	0.3	0.0	0.0	0.1
14/8/2022	11:14:29 am	0.0	0.0	0.2	0.0	0.0	0.1
14/8/2022	11:24:59 am	0.0	0.0	0.2	0.0	0.0	0.1
14/8/2022	11:35:29 am	0.0	0.0	0.1	0.0	0.0	0.1
14/8/2022	11:45:59 am	0.0	0.0	0.2	0.0	0.0	0.1
14/8/2022	11:56:29 am	0.0	0.0	0.4	0.0	0.0	0.1
14/8/2022	12:06:59 pm	0.0	0.0	0.6	0.0	0.0	0.1
14/8/2022	12:17:29 pm	0.0	0.0	0.6	0.0	0.0	0.1
14/8/2022	12:27:59 pm	0.0	0.0	0.7	0.0	0.0	0.1
14/8/2022	12:38:29 pm	0.0	0.0	0.8	0.0	0.0	0.1
14/8/2022	12:48:59 pm	0.0	0.0	0.7	0.0	0.0	0.1
14/8/2022	12:59:29 pm	0.0	0.0	0.8	0.0	0.0	0.1
14/8/2022	1:09:59 pm	0.0	0.0	0.6	0.0	0.0	0.1
14/8/2022	1:20:29 pm	0.0	0.0	0.7	0.0	0.0	0.1
14/8/2022	1:30:59 pm	0.0	0.0	0.8	0.0	0.0	0.1
14/8/2022	1:41:29 pm	0.0	0.0	0.7	0.0	0.0	0.1
14/8/2022	1:51:59 pm	0.0	0.0	0.4	0.0	0.0	0.1
14/8/2022	2:02:29 pm	0.0	0.0	0.3	0.0	0.0	0.1
14/8/2022	2:12:59 pm	0.0	0.0	0.1	0.0	0.0	0.1
14/8/2022	2:23:29 pm	0.0	0.0	0.0	0.0	0.0	0.1
14/8/2022	2:33:59 pm	0.0	0.0	0.0	0.0	0.0	0.1
14/8/2022	2:44:29 pm	0.0	0.0	0.0	0.0	0.0	0.1
14/8/2022	2:54:59 pm	0.0	0.0	0.0	0.0	0.0	0.1
14/8/2022	3:05:29 pm	0.0	0.0	0.0	0.0	0.0	0.1
14/8/2022	3:15:59 pm	0.0	0.0	1.1	0.0	0.0	0.1
14/8/2022	3:26:29 pm	0.0	0.0	0.5	0.0	0.0	0.1
14/8/2022	3:36:59 pm	0.0	0.0	0.8	0.0	0.0	0.1
14/8/2022	3:47:29 pm	0.0	0.0	0.9	0.0	0.0	0.1
14/8/2022	3:57:59 pm	0.0	0.0	1.1	0.0	0.0	0.1
14/8/2022	4:08:29 pm	0.0	0.0	1.2	0.0	0.0	0.1

Air Quality Monitoring Data from Station A1
12 August to 19 August 2022

Equipment: Oceanus OC-1000

14/8/2022	4:18:59 pm	0.0	0.0	1.2	0.0	0.0	0.1
14/8/2022	4:29:29 pm	0.0	0.0	1.2	0.0	0.0	0.1
14/8/2022	4:39:59 pm	0.0	0.0	1.0	0.0	0.0	0.1
14/8/2022	4:50:29 pm	0.0	0.0	0.9	0.0	0.0	0.1
14/8/2022	5:00:59 pm	0.0	0.0	1.1	0.0	0.0	0.1
14/8/2022	5:11:29 pm	0.0	0.0	0.9	0.0	0.0	0.1
14/8/2022	5:21:59 pm	0.0	0.0	0.9	0.0	0.0	0.1
14/8/2022	5:32:29 pm	0.0	0.0	0.6	0.0	0.0	0.1
14/8/2022	5:42:59 pm	0.0	0.0	0.4	0.0	0.0	0.1
14/8/2022	5:53:29 pm	0.0	0.0	0.1	0.0	0.0	0.1
14/8/2022	6:03:59 pm	0.0	0.0	0.1	0.0	0.0	0.1
14/8/2022	6:14:29 pm	0.0	0.0	0.1	0.0	0.0	0.1
14/8/2022	6:24:59 pm	0.0	0.0	0.0	0.0	0.0	0.1
14/8/2022	6:35:29 pm	0.0	0.0	0.9	0.0	0.0	0.1
14/8/2022	6:45:59 pm	0.0	0.0	1.1	0.0	0.0	0.1
14/8/2022	6:56:29 pm	0.0	0.0	1.2	0.0	0.0	0.1
14/8/2022	7:06:59 pm	0.0	0.0	1.2	0.0	0.0	0.1
14/8/2022	7:17:29 pm	0.0	0.0	1.2	0.0	0.0	0.1
14/8/2022	7:27:59 pm	0.0	0.0	1.0	0.0	0.0	0.1
14/8/2022	7:38:29 pm	0.0	0.0	0.9	0.0	0.0	0.1
14/8/2022	7:48:59 pm	0.0	0.0	1.1	0.0	0.0	0.1
14/8/2022	7:59:29 pm	0.0	0.0	0.9	0.0	0.0	0.1
14/8/2022	8:09:59 pm	0.0	0.0	0.9	0.0	0.0	0.1
14/8/2022	8:20:29 pm	0.0	0.0	0.6	0.0	0.0	0.1
14/8/2022	8:30:59 pm	0.0	0.0	0.4	0.0	0.0	0.1
14/8/2022	8:41:29 pm	0.0	0.0	0.1	0.0	0.0	0.1
14/8/2022	8:51:59 pm	0.0	0.0	0.1	0.0	0.0	0.1
14/8/2022	9:02:29 pm	0.0	0.0	0.1	0.0	0.0	0.1
14/8/2022	9:12:59 pm	0.0	0.0	0.0	0.0	0.0	0.1
14/8/2022	9:23:29 pm	0.0	0.0	0.0	0.0	0.0	0.1
14/8/2022	9:33:59 pm	0.0	0.0	0.0	0.0	0.0	0.1
14/8/2022	9:44:29 pm	0.0	0.0	0.0	0.0	0.0	0.1
14/8/2022	9:54:59 pm	0.0	0.0	0.0	0.0	0.0	0.1
14/8/2022	10:05:29 pm	0.0	0.0	0.2	0.0	0.0	0.1
14/8/2022	10:15:59 pm	0.0	0.0	0.2	0.0	0.0	0.1
14/8/2022	10:26:29 pm	0.0	0.0	0.3	0.0	0.0	0.1
14/8/2022	10:36:59 pm	0.0	0.0	0.4	0.0	0.0	0.1
14/8/2022	10:47:29 pm	0.0	0.0	0.4	0.0	0.0	0.1
14/8/2022	10:57:59 pm	0.0	0.0	0.5	0.0	0.0	0.1
14/8/2022	11:08:29 pm	0.0	0.0	0.5	0.0	0.0	0.1
14/8/2022	11:18:59 pm	0.0	0.0	0.5	0.0	0.0	0.1
14/8/2022	11:29:29 pm	0.0	0.0	0.4	0.0	0.0	0.1
14/8/2022	11:39:59 pm	0.0	0.0	0.4	0.0	0.0	0.1
14/8/2022	11:50:29 pm	0.0	0.0	0.5	0.0	0.0	0.1
15/8/2022	12:00:59 am	0.0	0.0	0.4	0.0	0.0	0.1
15/8/2022	12:11:29 am	0.0	0.0	0.5	0.0	0.0	0.1
15/8/2022	12:21:59 am	0.0	0.0	0.8	0.0	0.0	0.1
15/8/2022	12:32:29 am	0.0	0.0	0.9	0.0	0.0	0.1

Air Quality Monitoring Data from Station A1
12 August to 19 August 2022

Equipment: Oceanus OC-1000

15/8/2022	12:42:59 am	0.0	0.0	1.1	0.0	0.0	0.1
15/8/2022	12:53:29 am	0.0	0.0	1.2	0.0	0.0	0.1
15/8/2022	1:03:59 am	0.0	0.0	1.2	0.0	0.0	0.1
15/8/2022	1:14:29 am	0.0	0.0	1.2	0.0	0.0	0.1
15/8/2022	1:24:59 am	0.0	0.0	0.9	0.0	0.0	0.1
15/8/2022	1:35:29 am	0.0	0.0	1.1	0.0	0.0	0.1
15/8/2022	1:45:59 am	0.0	0.0	0.9	0.0	0.0	0.1
15/8/2022	1:56:29 am	0.0	0.0	0.9	0.0	0.0	0.1
15/8/2022	2:06:59 am	0.0	0.0	0.6	0.0	0.0	0.1
15/8/2022	2:17:29 am	0.0	0.0	0.4	0.0	0.0	0.1
15/8/2022	2:27:59 am	0.0	0.0	0.3	0.0	0.0	0.1
15/8/2022	2:38:29 am	0.0	0.0	0.3	0.0	0.0	0.1
15/8/2022	2:48:59 am	0.0	0.0	0.2	0.0	0.0	0.1
15/8/2022	2:59:29 am	0.0	0.0	0.4	0.0	0.0	0.1
15/8/2022	3:09:59 am	0.0	0.0	0.5	0.0	0.0	0.1
15/8/2022	3:20:29 am	0.0	0.0	0.5	0.0	0.0	0.0
15/8/2022	3:30:59 am	0.0	0.0	0.5	0.0	0.0	0.0
15/8/2022	3:41:29 am	0.0	0.0	0.5	0.0	0.0	0.0
15/8/2022	3:51:59 am	0.0	0.0	0.4	0.0	0.0	0.0
15/8/2022	4:02:29 am	0.0	0.0	0.4	0.0	0.0	0.1
15/8/2022	4:12:59 am	0.0	0.0	0.5	0.0	0.0	0.1
15/8/2022	4:23:29 am	0.0	0.0	0.5	0.0	0.0	0.1
15/8/2022	4:33:59 am	0.0	0.0	0.5	0.0	0.0	0.1
15/8/2022	4:44:29 am	0.0	0.0	0.5	0.0	0.0	0.0
15/8/2022	4:54:59 am	0.0	0.0	0.9	0.0	0.0	0.0
15/8/2022	5:05:29 am	0.0	0.0	0.6	0.0	0.0	0.0
15/8/2022	5:15:59 am	0.0	0.0	0.9	0.0	0.0	0.0
15/8/2022	5:26:29 am	0.0	0.0	1.1	0.0	0.0	0.0
15/8/2022	5:36:59 am	0.0	0.0	1.2	0.0	0.0	0.1
15/8/2022	5:47:29 am	0.0	0.0	1.2	0.0	0.0	0.1
15/8/2022	5:57:59 am	0.0	0.0	1.2	0.0	0.0	0.1
15/8/2022	6:08:29 am	0.0	0.0	0.9	0.0	0.0	0.1
15/8/2022	6:18:59 am	0.0	0.0	1.1	0.0	0.0	0.1
15/8/2022	6:29:29 am	0.0	0.0	0.9	0.0	0.0	0.1
15/8/2022	6:39:59 am	0.0	0.0	0.9	0.0	0.0	0.1
15/8/2022	6:50:29 am	0.0	0.0	0.6	0.0	0.0	0.1
15/8/2022	7:00:59 am	0.0	0.0	0.4	0.0	0.0	0.1
15/8/2022	7:11:29 am	0.0	0.0	0.3	0.0	0.0	0.1
15/8/2022	7:21:59 am	0.0	0.0	0.3	0.0	0.0	0.1
15/8/2022	7:32:29 am	0.0	0.0	0.2	0.0	0.0	0.1
15/8/2022	7:42:59 am	0.0	0.0	0.2	0.0	0.0	0.1
15/8/2022	7:53:29 am	0.0	0.0	0.1	0.0	0.0	0.1
15/8/2022	8:03:59 am	0.0	0.0	0.2	0.0	0.0	0.1
15/8/2022	8:14:29 am	0.0	0.0	0.4	0.0	0.0	0.1
15/8/2022	8:24:59 am	0.0	0.0	0.6	0.0	0.0	0.1
15/8/2022	8:35:29 am	0.0	0.0	0.6	0.0	0.0	0.1
15/8/2022	8:45:59 am	0.0	0.0	0.7	0.0	0.0	0.1
15/8/2022	8:56:29 am	0.0	0.0	0.8	0.0	0.0	0.1

Air Quality Monitoring Data from Station A1
12 August to 19 August 2022

Equipment: Oceanus OC-1000

15/8/2022	9:06:59 am	0.0	0.0	0.7	0.0	0.0	0.1
15/8/2022	9:17:29 am	0.0	0.0	0.8	0.0	0.0	0.1
15/8/2022	9:27:59 am	0.0	0.0	0.6	0.0	0.0	0.1
15/8/2022	9:38:29 am	0.0	0.0	0.7	0.0	0.0	0.1
15/8/2022	9:48:59 am	0.0	0.0	0.8	0.0	0.0	0.1
15/8/2022	9:59:29 am	0.0	0.0	0.7	0.0	0.0	0.0
15/8/2022	10:09:59 am	0.0	0.0	0.4	0.0	0.0	0.0
15/8/2022	10:20:29 am	0.0	0.0	0.3	0.0	0.0	0.0
15/8/2022	10:30:59 am	0.0	0.0	0.2	0.0	0.0	0.0
15/8/2022	10:41:29 am	0.0	0.0	0.2	0.0	0.0	0.0
15/8/2022	10:51:59 am	0.0	0.0	0.1	0.0	0.0	0.0
15/8/2022	11:02:29 am	0.0	0.0	0.2	0.0	0.0	0.0
15/8/2022	11:12:59 am	0.0	0.0	0.4	0.0	0.0	0.0
15/8/2022	11:23:29 am	0.0	0.0	0.6	0.0	0.0	0.1
15/8/2022	11:33:59 am	0.0	0.0	0.6	0.0	0.0	0.1
15/8/2022	11:44:29 am	0.0	0.0	0.7	0.0	0.0	0.1
15/8/2022	11:54:59 am	0.0	0.0	0.8	0.0	0.0	0.1
15/8/2022	12:05:29 pm	0.0	0.0	0.7	0.0	0.0	0.1
15/8/2022	12:15:59 pm	0.0	0.0	0.8	0.0	0.0	0.1
15/8/2022	12:26:29 pm	0.0	0.0	0.6	0.0	0.0	0.1
15/8/2022	12:36:59 pm	0.0	0.0	0.7	0.0	0.0	0.1
15/8/2022	12:47:29 pm	0.0	0.0	0.8	0.0	0.0	0.1
15/8/2022	12:57:59 pm	0.0	0.0	0.7	0.0	0.0	0.1
15/8/2022	1:08:29 pm	0.0	0.0	0.4	0.0	0.0	0.0
15/8/2022	1:18:59 pm	0.0	0.0	0.3	0.0	0.0	0.0
15/8/2022	1:29:29 pm	0.0	0.0	0.1	0.0	0.0	0.0
15/8/2022	1:39:59 pm	0.0	0.0	0.0	0.0	0.0	0.0
15/8/2022	1:50:29 pm	0.0	0.0	0.0	0.0	0.0	0.0
15/8/2022	2:00:59 pm	0.0	0.0	0.0	0.0	0.0	0.0
15/8/2022	2:11:29 pm	0.0	0.0	0.0	0.0	0.0	0.0
15/8/2022	2:21:59 pm	0.0	0.0	0.0	0.0	0.0	0.1
15/8/2022	2:32:29 pm	0.0	0.0	1.1	0.0	0.0	0.1
15/8/2022	2:42:59 pm	0.0	0.0	0.5	0.0	0.0	0.1
15/8/2022	2:53:29 pm	0.0	0.0	0.8	0.0	0.0	0.1
15/8/2022	3:03:59 pm	0.0	0.0	0.9	0.0	0.0	0.1
15/8/2022	3:14:29 pm	0.0	0.0	1.1	0.0	0.0	0.1
15/8/2022	3:24:59 pm	0.0	0.0	1.2	0.0	0.0	0.1
15/8/2022	3:35:29 pm	0.0	0.0	1.2	0.0	0.0	0.1
15/8/2022	3:45:59 pm	0.0	0.0	1.2	0.0	0.0	0.1
15/8/2022	3:56:29 pm	0.0	0.0	1.0	0.0	0.0	0.1
15/8/2022	4:06:59 pm	0.0	0.0	0.9	0.0	0.0	0.1
15/8/2022	4:17:29 pm	0.0	0.0	1.1	0.0	0.0	0.1
15/8/2022	4:27:59 pm	0.0	0.0	0.9	0.0	0.0	0.1
15/8/2022	4:38:29 pm	0.0	0.0	0.9	0.0	0.0	0.1
15/8/2022	4:48:59 pm	0.0	0.0	0.6	0.0	0.0	0.1
15/8/2022	4:59:29 pm	0.0	0.0	0.4	0.0	0.0	0.1
15/8/2022	5:09:59 pm	0.0	0.0	0.1	0.0	0.0	0.1
15/8/2022	5:20:29 pm	0.0	0.0	0.1	0.0	0.0	0.1

Air Quality Monitoring Data from Station A1
12 August to 19 August 2022

Equipment: Oceanus OC-1000

15/8/2022	5:30:59 pm	0.0	0.0	0.1	0.0	0.0	0.1
15/8/2022	5:41:29 pm	0.0	0.0	0.0	0.0	0.0	0.1
15/8/2022	5:51:59 pm	0.0	0.0	0.9	0.0	0.0	0.1
15/8/2022	6:02:29 pm	0.0	0.0	1.1	0.0	0.0	0.1
15/8/2022	6:12:59 pm	0.0	0.0	1.2	0.0	0.0	0.1
15/8/2022	6:23:29 pm	0.0	0.0	1.2	0.0	0.0	0.1
15/8/2022	6:33:59 pm	0.0	0.0	1.2	0.0	0.0	0.1
15/8/2022	6:44:29 pm	0.0	0.0	1.0	0.0	0.0	0.1
15/8/2022	6:54:59 pm	0.0	0.0	0.9	0.0	0.0	0.1
15/8/2022	7:05:29 pm	0.0	0.0	1.1	0.0	0.0	0.1
15/8/2022	7:15:59 pm	0.0	0.0	0.9	0.0	0.0	0.1
15/8/2022	7:26:29 pm	0.0	0.0	0.9	0.0	0.0	0.1
15/8/2022	7:36:59 pm	0.0	0.0	0.6	0.0	0.0	0.1
15/8/2022	7:47:29 pm	0.0	0.0	0.4	0.0	0.0	0.1
15/8/2022	7:57:59 pm	0.0	0.0	0.1	0.0	0.0	0.1
15/8/2022	8:08:29 pm	0.0	0.0	0.1	0.0	0.0	0.1
15/8/2022	8:18:59 pm	0.0	0.0	0.1	0.0	0.0	0.1
15/8/2022	8:29:29 pm	0.0	0.0	0.0	0.0	0.0	0.1
15/8/2022	8:39:59 pm	0.0	0.0	0.1	0.0	0.0	0.1
15/8/2022	8:50:29 pm	0.0	0.0	0.0	0.0	0.0	0.1
15/8/2022	9:00:59 pm	0.0	0.0	0.9	0.0	0.0	0.1
15/8/2022	9:11:29 pm	0.0	0.0	1.1	0.0	0.0	0.1
15/8/2022	9:21:59 pm	0.0	0.0	1.2	0.0	0.0	0.1
15/8/2022	9:32:29 pm	0.0	0.0	1.2	0.0	0.0	0.1
15/8/2022	9:42:59 pm	0.0	0.0	1.2	0.0	0.0	0.1
15/8/2022	9:53:29 pm	0.0	0.0	1.0	0.0	0.0	0.1
15/8/2022	10:03:59 pm	0.0	0.0	0.9	0.0	0.0	0.1
15/8/2022	10:14:29 pm	0.0	0.0	1.1	0.0	0.0	0.1
15/8/2022	10:24:59 pm	0.0	0.0	0.9	0.0	0.0	0.1
15/8/2022	10:35:29 pm	0.0	0.0	0.9	0.0	0.0	0.1
15/8/2022	10:45:59 pm	0.0	0.0	0.6	0.0	0.0	0.1
15/8/2022	10:56:29 pm	0.0	0.0	0.4	0.0	0.0	0.1
15/8/2022	11:06:59 pm	0.0	0.0	0.1	0.0	0.0	0.1
15/8/2022	11:17:29 pm	0.0	0.0	0.1	0.0	0.0	0.1
15/8/2022	11:27:59 pm	0.0	0.0	0.1	0.0	0.0	0.1
15/8/2022	11:38:29 pm	7.0	4.0	0.0	0.0	0.0	0.1
15/8/2022	11:48:59 pm	0.0	0.0	0.0	0.0	0.0	0.1
15/8/2022	11:59:29 pm	0.0	0.0	0.0	0.0	0.0	0.1
16/8/2022	12:09:59 am	0.0	0.0	0.0	0.0	0.0	0.1
16/8/2022	12:20:29 am	0.0	10.0	0.0	0.0	0.0	0.1
16/8/2022	12:30:59 am	0.0	0.0	0.2	0.0	0.0	0.0
16/8/2022	12:41:29 am	0.0	0.0	0.2	0.0	0.0	0.0
16/8/2022	12:51:59 am	0.0	0.0	0.3	0.0	0.0	0.0
16/8/2022	1:02:29 am	0.0	0.0	0.4	0.0	0.0	0.0
16/8/2022	1:12:59 am	0.0	0.0	0.4	0.0	0.0	0.0
16/8/2022	1:23:29 am	7.0	3.0	0.5	0.0	0.0	0.1
16/8/2022	1:33:59 am	5.0	1.0	0.5	0.0	0.0	0.1
16/8/2022	1:44:29 am	5.0	1.0	0.5	0.0	0.0	0.1

Air Quality Monitoring Data from Station A1
12 August to 19 August 2022

Equipment: Oceanus OC-1000

16/8/2022	1:54:59 am	6.0	1.0	0.4	0.0	0.0	0.1
16/8/2022	2:05:29 am	7.0	3.0	0.4	0.0	0.0	0.1
16/8/2022	2:15:59 am	0.0	0.0	0.5	0.0	0.0	0.1
16/8/2022	2:26:29 am	0.0	0.0	0.4	0.0	0.0	0.1
16/8/2022	2:36:59 am	0.0	0.0	0.5	0.0	0.0	0.1
16/8/2022	2:47:29 am	0.0	0.0	0.8	0.0	0.0	0.1
16/8/2022	2:57:59 am	0.0	0.0	0.9	0.0	0.0	0.1
16/8/2022	3:08:29 am	0.0	0.0	1.1	0.0	0.0	0.1
16/8/2022	3:18:59 am	0.0	0.0	1.2	0.0	0.0	0.1
16/8/2022	3:29:29 am	0.0	0.0	1.2	0.0	0.0	0.1
16/8/2022	3:39:59 am	0.0	0.0	1.2	0.0	0.0	0.1
16/8/2022	3:50:29 am	0.0	0.0	0.9	0.0	0.0	0.1
16/8/2022	4:00:59 am	0.0	0.0	1.1	0.0	0.0	0.1
16/8/2022	4:11:29 am	0.0	0.0	0.9	0.0	0.0	0.0
16/8/2022	4:21:59 am	0.0	0.0	0.9	0.0	0.0	0.0
16/8/2022	4:32:29 am	0.0	0.0	0.6	0.0	0.0	0.0
16/8/2022	4:42:59 am	0.0	0.0	0.4	0.0	0.0	0.0
16/8/2022	4:53:29 am	0.0	0.0	0.3	0.0	0.0	0.1
16/8/2022	5:03:59 am	0.0	0.0	0.3	0.0	0.0	0.1
16/8/2022	5:14:29 am	20.0	14.0	0.2	0.0	0.0	0.1
16/8/2022	5:24:59 am	15.0	13.0	0.4	0.0	0.0	0.1
16/8/2022	5:35:29 am	15.0	13.0	0.2	0.0	0.0	0.1
16/8/2022	5:45:59 am	15.0	13.0	0.2	0.0	0.0	0.1
16/8/2022	5:56:29 am	0.0	0.0	0.1	0.0	0.0	0.1
16/8/2022	6:06:59 am	0.0	0.0	0.2	0.0	0.0	0.1
16/8/2022	6:17:29 am	0.0	0.0	0.4	0.0	0.0	0.1
16/8/2022	6:27:59 am	10.0	6.0	0.6	0.0	0.0	0.1
16/8/2022	6:38:29 am	5.0	3.0	0.6	0.0	0.0	0.1
16/8/2022	6:48:59 am	4.0	2.0	0.7	0.0	0.0	0.1
16/8/2022	6:59:29 am	5.0	3.0	0.8	0.0	0.0	0.1
16/8/2022	7:09:59 am	5.0	2.0	0.7	0.0	0.0	0.1
16/8/2022	7:20:29 am	4.0	2.0	0.8	0.0	0.0	0.1
16/8/2022	7:30:59 am	4.0	2.0	0.6	0.0	0.0	0.1
16/8/2022	7:41:29 am	3.0	1.0	0.7	0.0	0.0	0.1
16/8/2022	7:51:59 am	0.0	0.0	0.8	0.0	0.0	0.1
16/8/2022	8:02:29 am	0.0	0.0	0.7	0.0	0.0	0.1
16/8/2022	8:12:59 am	0.0	0.0	0.4	0.0	0.0	0.1
16/8/2022	8:23:29 am	0.0	0.0	0.3	0.0	0.0	0.1
16/8/2022	8:33:59 am	0.0	0.0	0.1	0.0	0.0	0.1
16/8/2022	8:44:29 am	0.0	0.0	0.0	0.0	0.0	0.1
16/8/2022	8:54:59 am	0.0	0.0	0.0	0.0	0.0	0.1
16/8/2022	9:05:29 am	0.0	0.0	0.0	0.0	0.0	0.1
16/8/2022	9:15:59 am	0.0	0.0	0.0	0.0	0.0	0.0
16/8/2022	9:26:29 am	0.0	0.0	0.0	0.0	0.0	0.0
16/8/2022	9:36:59 am	0.0	0.0	1.1	0.0	0.0	0.0
16/8/2022	9:47:29 am	0.0	0.0	0.5	0.0	0.0	0.0
16/8/2022	9:57:59 am	0.0	0.0	0.8	0.0	0.0	0.0
16/8/2022	10:08:29 am	0.0	0.0	0.9	0.0	0.0	0.0

Air Quality Monitoring Data from Station A1
12 August to 19 August 2022

Equipment: Oceanus OC-1000

16/8/2022	10:18:59 am	0.0	0.0	1.1	0.0	0.0	0.0
16/8/2022	10:29:29 am	0.0	0.0	1.2	0.0	0.0	0.0
16/8/2022	10:39:59 am	0.0	0.0	1.2	0.0	0.0	0.1
16/8/2022	10:50:29 am	0.0	0.0	0.2	0.0	0.0	0.1
16/8/2022	11:00:59 am	0.0	0.0	0.2	0.0	0.0	0.1
16/8/2022	11:11:29 am	0.0	0.0	0.1	0.0	0.0	0.1
16/8/2022	11:21:59 am	0.0	0.0	0.2	0.0	0.0	0.1
16/8/2022	11:32:29 am	0.0	0.0	0.4	0.0	0.0	0.1
16/8/2022	11:42:59 am	0.0	0.0	0.6	0.0	0.0	0.1
16/8/2022	11:53:29 am	0.0	0.0	0.6	0.0	0.0	0.1
16/8/2022	12:03:59 pm	0.0	0.0	0.7	0.0	0.0	0.1
16/8/2022	12:14:29 pm	0.0	0.0	0.8	0.0	0.0	0.1
16/8/2022	12:24:59 pm	0.0	0.0	0.7	0.0	0.0	0.0
16/8/2022	12:35:29 pm	0.0	0.0	0.8	0.0	0.0	0.0
16/8/2022	12:45:59 pm	0.0	0.0	0.6	0.0	0.0	0.0
16/8/2022	12:56:29 pm	0.0	0.0	0.7	0.0	0.0	0.0
16/8/2022	1:06:59 pm	0.0	0.0	0.8	0.0	0.0	0.0
16/8/2022	1:17:29 pm	0.0	0.0	0.7	0.0	0.0	0.0
16/8/2022	1:27:59 pm	0.0	0.0	0.4	0.0	0.0	0.0
16/8/2022	1:38:29 pm	0.0	0.0	0.3	0.0	0.0	0.0
16/8/2022	1:48:59 pm	0.0	0.0	0.2	0.0	0.0	0.0
16/8/2022	1:59:29 pm	0.0	0.0	0.2	0.0	0.0	0.0
16/8/2022	2:09:59 pm	0.0	0.0	0.1	0.0	0.0	0.1
16/8/2022	2:20:29 pm	0.0	0.0	0.2	0.0	0.0	0.1
16/8/2022	2:30:59 pm	0.0	0.0	0.4	0.0	0.0	0.1
16/8/2022	2:41:29 pm	0.0	0.0	0.6	0.0	0.0	0.1
16/8/2022	2:51:59 pm	0.0	0.0	0.6	0.0	0.0	0.1
16/8/2022	3:02:29 pm	0.0	0.0	0.7	0.0	0.0	0.1
16/8/2022	3:12:59 pm	0.0	0.0	0.8	0.0	0.0	0.1
16/8/2022	3:23:29 pm	0.0	0.0	0.7	0.0	0.0	0.1
16/8/2022	3:33:59 pm	0.0	0.0	0.8	0.0	0.0	0.1
16/8/2022	3:44:29 pm	0.0	0.0	0.6	0.0	0.0	0.1
16/8/2022	3:54:59 pm	0.0	0.0	0.7	0.0	0.0	0.1
16/8/2022	4:05:29 pm	0.0	0.0	0.8	0.0	0.0	0.1
16/8/2022	4:15:59 pm	0.0	0.0	0.7	0.0	0.0	0.1
16/8/2022	4:26:29 pm	0.0	0.0	0.4	0.0	0.0	0.1
16/8/2022	4:36:59 pm	0.0	0.0	0.3	0.0	0.0	0.1
16/8/2022	4:47:29 pm	0.0	0.0	0.9	0.0	0.0	0.1
16/8/2022	4:57:59 pm	0.0	0.0	1.1	0.0	0.0	0.1
16/8/2022	5:08:29 pm	0.0	0.0	1.2	0.0	0.0	0.1
16/8/2022	5:18:59 pm	0.0	0.0	1.2	0.0	0.0	0.1
16/8/2022	5:29:29 pm	0.0	0.0	1.2	0.0	0.0	0.1
16/8/2022	5:39:59 pm	0.0	0.0	1.0	0.0	0.0	0.1
16/8/2022	5:50:29 pm	0.0	0.0	0.9	0.0	0.0	0.1
16/8/2022	6:00:59 pm	0.0	0.0	1.1	0.0	0.0	0.1
16/8/2022	6:11:29 pm	0.0	0.0	0.9	0.0	0.0	0.1
16/8/2022	6:21:59 pm	0.0	0.0	0.9	0.0	0.0	0.1
16/8/2022	6:32:29 pm	0.0	0.0	0.6	0.0	0.0	0.0

Air Quality Monitoring Data from Station A1
12 August to 19 August 2022

Equipment: Oceanus OC-1000

16/8/2022	6:42:59 pm	0.0	0.0	0.4	0.0	0.0	0.0
16/8/2022	6:53:29 pm	0.0	0.0	0.1	0.0	0.0	0.0
16/8/2022	7:03:59 pm	0.0	0.0	0.1	0.0	0.0	0.0
16/8/2022	7:14:29 pm	0.0	0.0	0.1	0.0	0.0	0.0
16/8/2022	7:24:59 pm	0.0	0.0	0.0	0.0	0.0	0.0
16/8/2022	7:35:29 pm	0.0	0.0	0.0	0.0	0.0	0.0
16/8/2022	7:45:59 pm	22.0	14.0	0.0	0.0	0.0	0.0
16/8/2022	7:56:29 pm	0.0	0.0	0.0	0.0	0.0	0.1
16/8/2022	8:06:59 pm	0.0	0.0	0.0	0.0	0.0	0.1
16/8/2022	8:17:29 pm	0.0	0.0	0.2	0.0	0.0	0.1
16/8/2022	8:27:59 pm	0.0	0.0	0.2	0.0	0.0	0.1
16/8/2022	8:38:29 pm	0.0	0.0	0.3	0.0	0.0	0.1
16/8/2022	8:48:59 pm	0.0	0.0	0.4	0.0	0.0	0.1
16/8/2022	8:59:29 pm	0.0	0.0	0.4	0.0	0.0	0.1
16/8/2022	9:09:59 pm	0.0	0.0	0.5	0.0	0.0	0.1
16/8/2022	9:20:29 pm	0.0	0.0	0.5	0.0	0.0	0.1
16/8/2022	9:30:59 pm	0.0	0.0	0.5	0.0	0.0	0.1
16/8/2022	9:41:29 pm	0.0	0.0	0.4	0.0	0.0	0.0
16/8/2022	9:51:59 pm	0.0	0.0	0.4	0.0	0.0	0.0
16/8/2022	10:02:29 pm	0.0	0.0	0.5	0.0	0.0	0.0
16/8/2022	10:12:59 pm	0.0	0.0	0.4	0.0	0.0	0.0
16/8/2022	10:23:29 pm	0.0	0.0	0.5	0.0	0.0	0.0
16/8/2022	10:33:59 pm	0.0	0.0	0.8	0.0	0.0	0.0
16/8/2022	10:44:29 pm	0.0	0.0	0.9	0.0	0.0	0.1
16/8/2022	10:54:59 pm	0.0	0.0	1.1	0.0	0.0	0.1
16/8/2022	11:05:29 pm	0.0	0.0	1.2	0.0	0.0	0.1
16/8/2022	11:15:59 pm	0.0	0.0	1.2	0.0	0.0	0.1
16/8/2022	11:26:29 pm	0.0	0.0	1.2	0.0	0.0	0.1
16/8/2022	11:36:59 pm	0.0	0.0	0.9	0.0	0.0	0.1
16/8/2022	11:47:29 pm	0.0	0.0	1.1	0.0	0.0	0.1
16/8/2022	11:57:59 pm	0.0	0.0	0.9	0.0	0.0	0.1
17/8/2022	12:08:29 am	0.0	0.0	0.9	0.0	0.0	0.1
17/8/2022	12:18:59 am	0.0	0.0	0.6	0.0	0.0	0.1
17/8/2022	12:29:29 am	0.0	0.0	0.4	0.0	0.0	0.1
17/8/2022	12:39:59 am	0.0	0.0	0.3	0.0	0.0	0.1
17/8/2022	12:50:29 am	0.0	0.0	0.3	0.0	0.0	0.1
17/8/2022	1:00:59 am	0.0	0.0	0.2	0.0	0.0	0.1
17/8/2022	1:11:29 am	0.0	0.0	0.4	0.0	0.0	0.1
17/8/2022	1:21:59 am	0.0	0.0	0.5	0.0	0.0	0.1
17/8/2022	1:32:29 am	0.0	0.0	0.5	0.0	0.0	0.1
17/8/2022	1:42:59 am	0.0	0.0	0.5	0.0	0.0	0.1
17/8/2022	1:53:29 am	0.0	0.0	0.5	0.0	0.0	0.1
17/8/2022	2:03:59 am	0.0	0.0	0.4	0.0	0.0	0.1
17/8/2022	2:14:29 am	0.0	0.0	0.4	0.0	0.0	0.1
17/8/2022	2:24:59 am	0.0	0.0	1.1	0.0	0.0	0.1
17/8/2022	2:35:29 am	0.0	0.0	0.5	0.0	0.0	0.1
17/8/2022	2:45:59 am	0.0	0.0	0.8	0.0	0.0	0.1
17/8/2022	2:56:29 am	0.0	0.0	0.9	0.0	0.0	0.1

Air Quality Monitoring Data from Station A1
12 August to 19 August 2022

Equipment: Oceanus OC-1000

17/8/2022	3:06:59 am	0.0	0.0	1.1	0.0	0.0	0.1
17/8/2022	3:17:29 am	0.0	0.0	1.2	0.0	0.0	0.1
17/8/2022	3:27:59 am	0.0	0.0	1.2	0.0	0.0	0.1
17/8/2022	3:38:29 am	0.0	0.0	1.2	0.0	0.0	0.1
17/8/2022	3:48:59 am	0.0	0.0	1.0	0.0	0.0	0.1
17/8/2022	3:59:29 am	0.0	0.0	0.9	0.0	0.0	0.1
17/8/2022	4:09:59 am	0.0	0.0	1.1	0.0	0.0	0.1
17/8/2022	4:20:29 am	0.0	0.0	0.9	0.0	0.0	0.1
17/8/2022	4:30:59 am	0.0	0.0	0.9	0.0	0.0	0.1
17/8/2022	4:41:29 am	0.0	0.0	0.6	0.0	0.0	0.1
17/8/2022	4:51:59 am	0.0	0.0	0.4	0.0	0.0	0.1
17/8/2022	5:02:29 am	0.0	0.0	0.1	0.0	0.0	0.1
17/8/2022	5:12:59 am	0.0	0.0	0.1	0.0	0.0	0.1
17/8/2022	5:23:29 am	0.0	0.0	0.1	0.0	0.0	0.1
17/8/2022	5:33:59 am	0.0	0.0	0.0	0.0	0.0	0.1
17/8/2022	5:44:29 am	0.0	0.0	0.9	0.0	0.0	0.1
17/8/2022	5:54:59 am	0.0	0.0	1.1	0.0	0.0	0.1
17/8/2022	6:05:29 am	0.0	0.0	1.2	0.0	0.0	0.1
17/8/2022	6:15:59 am	0.0	0.0	1.2	0.0	0.0	0.1
17/8/2022	6:26:29 am	7.0	5.0	1.2	0.0	0.0	0.1
17/8/2022	6:36:59 am	5.0	2.0	1.0	0.0	0.0	0.1
17/8/2022	6:47:29 am	5.0	2.0	0.9	0.0	0.0	0.1
17/8/2022	6:57:59 am	3.0	1.0	1.1	0.0	0.0	0.1
17/8/2022	7:08:29 am	3.0	1.0	0.9	0.0	0.0	0.1
17/8/2022	7:18:59 am	3.0	1.0	0.9	0.0	0.0	0.1
17/8/2022	7:29:29 am	3.0	1.0	0.6	0.0	0.0	0.1
17/8/2022	7:39:59 am	3.0	1.0	0.4	0.0	0.0	0.1
17/8/2022	7:50:29 am	3.0	1.0	0.1	0.0	0.0	0.1
17/8/2022	8:00:59 am	3.0	1.0	0.1	0.0	0.0	0.1
17/8/2022	8:11:29 am	3.0	1.0	0.1	0.0	0.0	0.1
17/8/2022	8:21:59 am	0.0	0.0	0.0	0.0	0.0	0.1
17/8/2022	8:32:29 am	0.0	0.0	0.0	0.0	0.0	0.1
17/8/2022	8:42:59 am	0.0	0.0	0.0	0.0	0.0	0.1
17/8/2022	8:53:29 am	0.0	0.0	0.0	0.0	0.0	0.1
17/8/2022	9:03:59 am	0.0	0.0	0.0	0.0	0.0	0.1
17/8/2022	9:14:29 am	7.0	4.0	0.2	0.0	0.0	0.1
17/8/2022	9:24:59 am	7.0	4.0	0.2	0.0	0.0	0.1
17/8/2022	9:35:29 am	7.0	4.0	0.3	0.0	0.0	0.1
17/8/2022	9:45:59 am	5.0	3.0	0.4	0.0	0.0	0.1
17/8/2022	9:56:29 am	7.0	4.0	0.4	0.0	0.0	0.1
17/8/2022	10:06:59 am	5.0	3.0	0.5	0.0	0.0	0.1
17/8/2022	10:17:29 am	5.0	3.0	0.5	0.0	0.0	0.1
17/8/2022	10:27:59 am	4.0	2.0	0.5	0.0	0.0	0.1
17/8/2022	10:38:29 am	4.0	2.0	0.4	0.0	0.0	0.1
17/8/2022	10:48:59 am	4.0	2.0	0.4	0.0	0.0	0.1
17/8/2022	10:59:29 am	4.0	2.0	0.5	0.0	0.0	0.0
17/8/2022	11:09:59 am	4.0	2.0	0.4	0.0	0.0	0.0
17/8/2022	11:20:29 am	3.0	1.0	0.5	0.0	0.0	0.0

Air Quality Monitoring Data from Station A1
12 August to 19 August 2022

Equipment: Oceanus OC-1000

17/8/2022	11:30:59 am	3.0	1.0	0.8	0.0	0.0	0.0
17/8/2022	11:41:29 am	3.0	1.0	0.9	0.0	0.0	0.0
17/8/2022	11:51:59 am	3.0	1.0	1.1	0.0	0.0	0.1
17/8/2022	12:02:29 pm	3.0	1.0	1.2	0.0	0.0	0.1
17/8/2022	12:12:59 pm	3.0	1.0	1.2	0.0	0.0	0.1
17/8/2022	12:23:29 pm	3.0	1.0	1.2	0.0	0.0	0.1
17/8/2022	12:33:59 pm	3.0	1.0	0.9	0.0	0.0	0.1
17/8/2022	12:44:29 pm	3.0	1.0	1.1	0.0	0.0	0.1
17/8/2022	12:54:59 pm	3.0	1.0	0.9	0.0	0.0	0.1
17/8/2022	1:05:29 pm	3.0	1.0	0.9	0.0	0.0	0.1
17/8/2022	1:15:59 pm	3.0	1.0	0.6	0.0	0.0	0.1
17/8/2022	1:26:29 pm	0.0	0.0	0.4	0.0	0.0	0.1
17/8/2022	1:36:59 pm	3.0	1.0	0.3	0.0	0.0	0.1
17/8/2022	1:47:29 pm	3.0	1.0	0.3	0.0	0.0	0.1
17/8/2022	1:57:59 pm	0.0	0.0	0.2	0.0	0.0	0.1
17/8/2022	2:08:29 pm	0.0	0.0	0.4	0.0	0.0	0.1
17/8/2022	2:18:59 pm	0.0	0.0	0.5	0.0	0.0	0.1
17/8/2022	2:29:29 pm	0.0	0.0	0.5	0.0	0.0	0.1
17/8/2022	2:39:59 pm	0.0	0.0	0.5	0.0	0.0	0.0
17/8/2022	2:50:29 pm	0.0	0.0	0.5	0.0	0.0	0.0
17/8/2022	3:00:59 pm	0.0	0.0	0.4	0.0	0.0	0.0
17/8/2022	3:11:29 pm	0.0	0.0	0.4	0.0	0.0	0.0
17/8/2022	3:21:59 pm	0.0	0.0	0.5	0.0	0.0	0.1
17/8/2022	3:32:29 pm	0.0	0.0	0.5	0.0	0.0	0.1
17/8/2022	3:42:59 pm	0.0	0.0	0.5	0.0	0.0	0.1
17/8/2022	3:53:29 pm	0.0	0.0	0.5	0.0	0.0	0.1
17/8/2022	4:03:59 pm	0.0	0.0	0.9	0.0	0.0	0.1
17/8/2022	4:14:29 pm	0.0	0.0	0.6	0.0	0.0	0.1
17/8/2022	4:24:59 pm	0.0	0.0	0.9	0.0	0.0	0.1
17/8/2022	4:35:29 pm	0.0	0.0	1.1	0.0	0.0	0.1
17/8/2022	4:45:59 pm	0.0	0.0	1.2	0.0	0.0	0.1
17/8/2022	4:56:29 pm	0.0	0.0	1.2	0.0	0.0	0.1
17/8/2022	5:06:59 pm	0.0	0.0	1.2	0.0	0.0	0.1
17/8/2022	5:17:29 pm	0.0	0.0	0.9	0.0	0.0	0.1
17/8/2022	5:27:59 pm	0.0	0.0	1.1	0.0	0.0	0.1
17/8/2022	5:38:29 pm	0.0	0.0	0.9	0.0	0.0	0.1
17/8/2022	5:48:59 pm	0.0	0.0	0.2	0.0	0.0	0.1
17/8/2022	5:59:29 pm	0.0	0.0	0.1	0.0	0.0	0.1
17/8/2022	6:09:59 pm	0.0	0.0	0.2	0.0	0.0	0.1
17/8/2022	6:20:29 pm	0.0	0.0	0.4	0.0	0.0	0.1
17/8/2022	6:30:59 pm	0.0	0.0	0.6	0.0	0.0	0.1
17/8/2022	6:41:29 pm	0.0	0.0	0.6	0.0	0.0	0.1
17/8/2022	6:51:59 pm	0.0	0.0	0.7	0.0	0.0	0.0
17/8/2022	7:02:29 pm	0.0	0.0	0.8	0.0	0.0	0.0
17/8/2022	7:12:59 pm	0.0	0.0	0.7	0.0	0.0	0.0
17/8/2022	7:23:29 pm	0.0	0.0	0.8	0.0	0.0	0.0
17/8/2022	7:33:59 pm	0.0	0.0	0.6	0.0	0.0	0.1
17/8/2022	7:44:29 pm	0.0	0.0	0.7	0.0	0.0	0.1

Air Quality Monitoring Data from Station A1
12 August to 19 August 2022

Equipment: Oceanus OC-1000

17/8/2022	7:54:59 pm	0.0	0.0	0.8	0.0	0.0	0.1
17/8/2022	8:05:29 pm	0.0	0.0	0.7	0.0	0.0	0.1
17/8/2022	8:15:59 pm	0.0	0.0	0.4	0.0	0.0	0.1
17/8/2022	8:26:29 pm	0.0	0.0	0.3	0.0	0.0	0.1
17/8/2022	8:36:59 pm	0.0	0.0	0.9	0.0	0.0	0.1
17/8/2022	8:47:29 pm	0.0	0.0	1.1	0.0	0.0	0.1
17/8/2022	8:57:59 pm	0.0	0.0	1.2	0.0	0.0	0.1
17/8/2022	9:08:29 pm	0.0	0.0	1.2	0.0	0.0	0.1
17/8/2022	9:18:59 pm	0.0	0.0	1.2	0.0	0.0	0.1
17/8/2022	9:29:29 pm	0.0	0.0	1.0	0.0	0.0	0.1
17/8/2022	9:39:59 pm	0.0	0.0	0.9	0.0	0.0	0.1
17/8/2022	9:50:29 pm	0.0	0.0	1.1	0.0	0.0	0.1
17/8/2022	10:00:59 pm	0.0	0.0	0.9	0.0	0.0	0.1
17/8/2022	10:11:29 pm	0.0	0.0	0.9	0.0	0.0	0.1
17/8/2022	10:21:59 pm	0.0	0.0	0.6	0.0	0.0	0.1
17/8/2022	10:32:29 pm	0.0	0.0	0.4	0.0	0.0	0.1
17/8/2022	10:42:59 pm	0.0	0.0	0.1	0.0	0.0	0.1
17/8/2022	10:53:29 pm	0.0	0.0	0.1	0.0	0.0	0.1
17/8/2022	11:03:59 pm	0.0	0.0	0.1	0.0	0.0	0.1
17/8/2022	11:14:29 pm	0.0	0.0	0.0	0.0	0.0	0.1
17/8/2022	11:24:59 pm	0.0	0.0	0.0	0.0	0.0	0.1
17/8/2022	11:35:29 pm	0.0	0.0	0.0	0.0	0.0	0.1
17/8/2022	11:45:59 pm	0.0	0.0	0.0	0.0	0.0	0.1
17/8/2022	11:56:29 pm	0.0	0.0	0.0	0.0	0.0	0.0
18/8/2022	12:06:59 am	0.0	0.0	0.2	0.0	0.0	0.0
18/8/2022	12:17:29 am	0.0	0.0	0.2	0.0	0.0	0.0
18/8/2022	12:27:59 am	0.0	0.0	0.3	0.0	0.0	0.0
18/8/2022	12:38:29 am	0.0	0.0	0.2	0.0	0.0	0.0
18/8/2022	12:48:59 am	0.0	0.0	0.2	0.0	0.0	0.0
18/8/2022	12:59:29 am	0.0	0.0	0.1	0.0	0.0	0.0
18/8/2022	1:09:59 am	0.0	0.0	0.2	0.0	0.0	0.0
18/8/2022	1:20:29 am	0.0	0.0	0.4	0.0	0.0	0.1
18/8/2022	1:30:59 am	0.0	0.0	0.6	0.0	0.0	0.1
18/8/2022	1:41:29 am	0.0	0.0	0.6	0.0	0.0	0.1
18/8/2022	1:51:59 am	0.0	0.0	0.7	0.0	0.0	0.1
18/8/2022	2:02:29 am	0.0	0.0	0.8	0.0	0.0	0.1
18/8/2022	2:12:59 am	0.0	0.0	0.7	0.0	0.0	0.1
18/8/2022	2:23:29 am	0.0	0.0	0.8	0.0	0.0	0.1
18/8/2022	2:33:59 am	0.0	0.0	0.6	0.0	0.0	0.1
18/8/2022	2:44:29 am	0.0	0.0	0.7	0.0	0.0	0.1
18/8/2022	2:54:59 am	0.0	0.0	0.8	0.0	0.0	0.1
18/8/2022	3:05:29 am	0.0	0.0	0.7	0.0	0.0	0.1
18/8/2022	3:15:59 am	0.0	0.0	0.4	0.0	0.0	0.1
18/8/2022	3:26:29 am	0.0	0.0	0.3	0.0	0.0	0.1
18/8/2022	3:36:59 am	0.0	0.0	0.2	0.0	0.0	0.1
18/8/2022	3:47:29 am	0.0	0.0	0.2	0.0	0.0	0.1
18/8/2022	3:57:59 am	0.0	0.0	0.1	0.0	0.0	0.1
18/8/2022	4:08:29 am	0.0	0.0	0.2	0.0	0.0	0.1

Air Quality Monitoring Data from Station A1
12 August to 19 August 2022

Equipment: Oceanus OC-1000

18/8/2022	4:18:59 am	0.0	0.0	0.4	0.0	0.0	0.1
18/8/2022	4:29:29 am	0.0	0.0	0.6	0.0	0.0	0.1
18/8/2022	4:39:59 am	0.0	0.0	0.6	0.0	0.0	0.1
18/8/2022	4:50:29 am	0.0	0.0	0.7	0.0	0.0	0.1
18/8/2022	5:00:59 am	0.0	0.0	0.8	0.0	0.0	0.1
18/8/2022	5:11:29 am	0.0	0.0	0.7	0.0	0.0	0.1
18/8/2022	5:21:59 am	0.0	0.0	0.8	0.0	0.0	0.1
18/8/2022	5:32:29 am	0.0	0.0	0.4	0.0	0.0	0.1
18/8/2022	5:42:59 am	0.0	0.0	0.5	0.0	0.0	0.1
18/8/2022	5:53:29 am	0.0	0.0	0.5	0.0	0.0	0.1
18/8/2022	6:03:59 am	0.0	0.0	0.5	0.0	0.0	0.1
18/8/2022	6:14:29 am	0.0	0.0	0.4	0.0	0.0	0.1
18/8/2022	6:24:59 am	0.0	0.0	0.4	0.0	0.0	0.1
18/8/2022	6:35:29 am	0.0	0.0	0.5	0.0	0.0	0.1
18/8/2022	6:45:59 am	0.0	0.0	0.4	0.0	0.0	0.1
18/8/2022	6:56:29 am	0.0	0.0	0.5	0.0	0.0	0.1
18/8/2022	7:06:59 am	0.0	0.0	0.8	0.0	0.0	0.1
18/8/2022	7:17:29 am	0.0	0.0	0.9	0.0	0.0	0.1
18/8/2022	7:27:59 am	0.0	0.0	1.1	0.0	0.0	0.1
18/8/2022	7:38:29 am	0.0	0.0	1.2	0.0	0.0	0.1
18/8/2022	7:48:59 am	0.0	0.0	1.2	0.0	0.0	0.1
18/8/2022	7:59:29 am	0.0	0.0	1.2	0.0	0.0	0.1
18/8/2022	8:09:59 am	0.0	0.0	0.9	0.0	0.0	0.1
18/8/2022	8:20:29 am	0.0	0.0	1.1	0.0	0.0	0.1
18/8/2022	8:30:59 am	0.0	0.0	0.9	0.0	0.0	0.1
18/8/2022	8:41:29 am	0.0	0.0	0.9	0.0	0.0	0.1
18/8/2022	8:51:59 am	0.0	0.0	0.6	0.0	0.0	0.1
18/8/2022	9:02:29 am	0.0	0.0	0.4	0.0	0.0	0.1
18/8/2022	9:12:59 am	0.0	0.0	0.3	0.0	0.0	0.1
18/8/2022	9:23:29 am	0.0	0.0	0.3	0.0	0.0	0.1
18/8/2022	9:33:59 am	0.0	0.0	0.2	0.0	0.0	0.1
18/8/2022	9:44:29 am	0.0	0.0	0.4	0.0	0.0	0.1
18/8/2022	9:54:59 am	0.0	0.0	0.5	0.0	0.0	0.0
18/8/2022	10:05:29 am	0.0	0.0	0.7	0.0	0.0	0.0
18/8/2022	10:15:59 am	0.0	0.0	0.8	0.0	0.0	0.0
18/8/2022	10:26:29 am	0.0	0.0	0.7	0.0	0.0	0.0
18/8/2022	10:36:59 am	0.0	0.0	0.4	0.0	0.0	0.0
18/8/2022	10:47:29 am	0.0	0.0	0.3	0.0	0.0	0.1
18/8/2022	10:57:59 am	0.0	0.0	0.9	0.0	0.0	0.1
18/8/2022	11:08:29 am	0.0	0.0	1.1	0.0	0.0	0.1
18/8/2022	11:18:59 am	0.0	0.0	1.2	0.0	0.0	0.1
18/8/2022	11:29:29 am	0.0	0.0	1.2	0.0	0.0	0.1
18/8/2022	11:39:59 am	0.0	0.0	1.2	0.0	0.0	0.1
18/8/2022	11:50:29 am	0.0	0.0	1.0	0.0	0.0	0.1
18/8/2022	12:00:59 pm	0.0	0.0	0.9	0.0	0.0	0.1
18/8/2022	12:11:29 pm	0.0	0.0	1.1	0.0	0.0	0.1
18/8/2022	12:21:59 pm	0.0	0.0	0.9	0.0	0.0	0.1
18/8/2022	12:32:29 pm	0.0	0.0	0.9	0.0	0.0	0.1

Air Quality Monitoring Data from Station A1
12 August to 19 August 2022

Equipment: Oceanus OC-1000

18/8/2022	12:42:59 pm	0.0	0.0	0.6	0.0	0.0	0.1
18/8/2022	12:53:29 pm	0.0	0.0	0.4	0.0	0.0	0.1
18/8/2022	1:03:59 pm	0.0	0.0	0.1	0.0	0.0	0.1
18/8/2022	1:14:29 pm	0.0	0.0	0.1	0.0	0.0	0.1
18/8/2022	1:24:59 pm	0.0	0.0	0.1	0.0	0.0	0.1
18/8/2022	1:35:29 pm	0.0	0.0	0.0	0.0	0.0	0.1
18/8/2022	1:45:59 pm	0.0	0.0	0.0	0.0	0.0	0.1
18/8/2022	1:56:29 pm	0.0	0.0	0.0	0.0	0.0	0.1
18/8/2022	2:06:59 pm	0.0	0.0	0.0	0.0	0.0	0.1
18/8/2022	2:17:29 pm	0.0	0.0	0.0	0.0	0.0	0.1
18/8/2022	2:27:59 pm	0.0	0.0	0.2	0.0	0.0	0.1
18/8/2022	2:38:29 pm	0.0	0.0	0.2	0.0	0.0	0.1
18/8/2022	2:48:59 pm	0.0	0.0	0.3	0.0	0.0	0.1
18/8/2022	2:59:29 pm	0.0	0.0	0.2	0.0	0.0	0.1
18/8/2022	3:09:59 pm	0.0	0.0	0.2	0.0	0.0	0.1
18/8/2022	3:20:29 pm	0.0	0.0	0.1	0.0	0.0	0.1
18/8/2022	3:30:59 pm	0.0	0.0	0.2	0.0	0.0	0.1
18/8/2022	3:41:29 pm	0.0	0.0	0.4	0.0	0.0	0.1
18/8/2022	3:51:59 pm	0.0	0.0	0.6	0.0	0.0	0.1
18/8/2022	4:02:29 pm	0.0	0.0	0.6	0.0	0.0	0.0
18/8/2022	4:12:59 pm	0.0	0.0	1.2	0.0	0.0	0.0
18/8/2022	4:23:29 pm	0.0	0.0	1.2	0.0	0.0	0.0
18/8/2022	4:33:59 pm	0.0	0.0	1.2	0.0	0.0	0.0
18/8/2022	4:44:29 pm	0.0	0.0	0.9	0.0	0.0	0.0
18/8/2022	4:54:59 pm	0.0	0.0	1.1	0.0	0.0	0.1
18/8/2022	5:05:29 pm	0.0	0.0	0.9	0.0	0.0	0.1
18/8/2022	5:15:59 pm	0.0	0.0	0.2	0.0	0.0	0.1
18/8/2022	5:26:29 pm	0.0	0.0	0.1	0.0	0.0	0.1
18/8/2022	5:36:59 pm	0.0	0.0	0.2	0.0	0.0	0.1
18/8/2022	5:47:29 pm	0.0	0.0	0.4	0.0	0.0	0.1
18/8/2022	5:57:59 pm	0.0	0.0	0.6	0.0	0.0	0.1
18/8/2022	6:08:29 pm	0.0	0.0	0.6	0.0	0.0	0.1
18/8/2022	6:18:59 pm	0.0	0.0	0.7	0.0	0.0	0.1
18/8/2022	6:29:29 pm	0.0	0.0	0.8	0.0	0.0	0.1
18/8/2022	6:39:59 pm	0.0	0.0	0.7	0.0	0.0	0.1
18/8/2022	6:50:29 pm	0.0	0.0	0.8	0.0	0.0	0.1
18/8/2022	7:00:59 pm	0.0	0.0	0.6	0.0	0.0	0.1
18/8/2022	7:11:29 pm	0.0	0.0	0.7	0.0	0.0	0.1
18/8/2022	7:21:59 pm	0.0	0.0	0.8	0.0	0.0	0.1
18/8/2022	7:32:29 pm	0.0	0.0	0.7	0.0	0.0	0.1
18/8/2022	7:42:59 pm	0.0	0.0	0.4	0.0	0.0	0.0
18/8/2022	7:53:29 pm	0.0	0.0	0.3	0.0	0.0	0.0
18/8/2022	8:03:59 pm	0.0	0.0	0.9	0.0	0.0	0.0
18/8/2022	8:14:29 pm	0.0	0.0	1.1	0.0	0.0	0.0
18/8/2022	8:24:59 pm	0.0	0.0	1.2	0.0	0.0	0.1
18/8/2022	8:35:29 pm	0.0	0.0	1.2	0.0	0.0	0.1
18/8/2022	8:45:59 pm	0.0	0.0	1.2	0.0	0.0	0.1
18/8/2022	8:56:29 pm	0.0	0.0	1.0	0.0	0.0	0.1

Air Quality Monitoring Data from Station A1
12 August to 19 August 2022

Equipment: Oceanus OC-1000

18/8/2022	9:06:59 pm	0.0	0.0	0.9	0.0	0.0	0.1
18/8/2022	9:17:29 pm	0.0	0.0	0.4	0.0	0.0	0.1
18/8/2022	9:27:59 pm	0.0	0.0	0.5	0.0	0.0	0.1
18/8/2022	9:38:29 pm	0.0	0.0	0.5	0.0	0.0	0.1
18/8/2022	9:48:59 pm	0.0	0.0	0.5	0.0	0.0	0.1
18/8/2022	9:59:29 pm	0.0	0.0	0.5	0.0	0.0	0.1
18/8/2022	10:09:59 pm	0.0	0.0	0.4	0.0	0.0	0.1
18/8/2022	10:20:29 pm	0.0	0.0	0.4	0.0	0.0	0.1
18/8/2022	10:30:59 pm	0.0	0.0	0.5	0.0	0.0	0.1
18/8/2022	10:41:29 pm	0.0	0.0	0.5	0.0	0.0	0.0
18/8/2022	10:51:59 pm	0.0	0.0	0.5	0.0	0.0	0.0
18/8/2022	11:02:29 pm	0.0	0.0	0.5	0.0	0.0	0.0
18/8/2022	11:12:59 pm	0.0	0.0	0.9	0.0	0.0	0.0
18/8/2022	11:23:29 pm	0.0	0.0	0.6	0.0	0.0	0.1
18/8/2022	11:33:59 pm	0.0	0.0	0.9	0.0	0.0	0.1
18/8/2022	11:44:29 pm	0.0	0.0	1.1	0.0	0.0	0.1
18/8/2022	11:54:59 pm	0.0	0.0	1.2	0.0	0.0	0.1
19/8/2022	12:05:29 am	0.0	0.0	1.2	0.0	0.0	0.1
19/8/2022	12:15:59 am	0.0	0.0	1.2	0.0	0.0	0.1
19/8/2022	12:26:29 am	0.0	0.0	0.9	0.0	0.0	0.1
19/8/2022	12:36:59 am	0.0	0.0	1.1	0.0	0.0	0.1
19/8/2022	12:47:29 am	0.0	0.0	0.9	0.0	0.0	0.1
19/8/2022	12:57:59 am	0.0	0.0	0.2	0.0	0.0	0.1
19/8/2022	1:08:29 am	0.0	0.0	0.1	0.0	0.0	0.1
19/8/2022	1:18:59 am	0.0	0.0	0.2	0.0	0.0	0.1
19/8/2022	1:29:29 am	0.0	0.0	0.4	0.0	0.0	0.1
19/8/2022	1:39:59 am	0.0	0.0	0.6	0.0	0.0	0.1
19/8/2022	1:50:29 am	0.0	0.0	0.6	0.0	0.0	0.1
19/8/2022	2:00:59 am	0.0	0.0	0.7	0.0	0.0	0.1
19/8/2022	2:11:29 am	0.0	0.0	0.8	0.0	0.0	0.1
19/8/2022	2:21:59 am	0.0	0.0	0.7	0.0	0.0	0.1
19/8/2022	2:32:29 am	0.0	0.0	0.8	0.0	0.0	0.1
19/8/2022	2:42:59 am	0.0	0.0	0.6	0.0	0.0	0.1
19/8/2022	2:53:29 am	0.0	0.0	1.2	0.0	0.0	0.1
19/8/2022	3:03:59 am	0.0	0.0	1.0	0.0	0.0	0.1
19/8/2022	3:14:29 am	0.0	0.0	0.9	0.0	0.0	0.1
19/8/2022	3:24:59 am	0.0	0.0	1.1	0.0	0.0	0.1
19/8/2022	3:35:29 am	0.0	0.0	0.9	0.0	0.0	0.1
19/8/2022	3:45:59 am	0.0	0.0	0.9	0.0	0.0	0.1
19/8/2022	3:56:29 am	0.0	0.0	0.6	0.0	0.0	0.1
19/8/2022	4:06:59 am	0.0	0.0	0.4	0.0	0.0	0.1
19/8/2022	4:17:29 am	0.0	0.0	0.1	0.0	0.0	0.1
19/8/2022	4:27:59 am	0.0	0.0	0.1	0.0	0.0	0.1
19/8/2022	4:38:29 am	0.0	0.0	0.1	0.0	0.0	0.1
19/8/2022	4:48:59 am	0.0	0.0	0.0	0.0	0.0	0.1
19/8/2022	4:59:29 am	0.0	0.0	0.9	0.0	0.0	0.1
19/8/2022	5:09:59 am	0.0	0.0	1.1	0.0	0.0	0.1
19/8/2022	5:20:29 am	0.0	0.0	1.2	0.0	0.0	0.1

Air Quality Monitoring Data from Station A1
12 August to 19 August 2022

Equipment: Oceanus OC-1000

19/8/2022	5:30:59 am	0.0	0.0	1.2	0.0	0.0	0.1
19/8/2022	5:41:29 am	0.0	0.0	1.2	0.0	0.0	0.1
19/8/2022	5:51:59 am	0.0	0.0	1.0	0.0	0.0	0.1
19/8/2022	6:02:29 am	0.0	0.0	0.9	0.0	0.0	0.1
19/8/2022	6:12:59 am	0.0	0.0	1.1	0.0	0.0	0.1
19/8/2022	6:23:29 am	0.0	0.0	0.9	0.0	0.0	0.1
19/8/2022	6:33:59 am	0.0	0.0	0.9	0.0	0.0	0.1
19/8/2022	6:44:29 am	0.0	0.0	0.6	0.0	0.0	0.1
19/8/2022	6:54:59 am	0.0	0.0	0.4	0.0	0.0	0.1
19/8/2022	7:05:29 am	0.0	0.0	0.1	0.0	0.0	0.1
19/8/2022	7:15:59 am	0.0	0.0	0.1	0.0	0.0	0.1
19/8/2022	7:26:29 am	0.0	0.0	0.1	0.0	0.0	0.1
19/8/2022	7:36:59 am	0.0	0.0	0.0	0.0	0.0	0.1
19/8/2022	7:47:29 am	0.0	0.0	0.0	0.0	0.0	0.1
19/8/2022	7:57:59 am	0.0	0.0	0.0	0.0	0.0	0.1
19/8/2022	8:08:29 am	0.0	0.0	0.4	0.0	0.0	0.1
19/8/2022	8:18:59 am	0.0	0.0	0.5	0.0	0.0	0.1
19/8/2022	8:29:29 am	0.0	0.0	0.5	0.0	0.0	0.1
19/8/2022	8:39:59 am	0.0	0.0	0.5	0.0	0.0	0.1
19/8/2022	8:50:29 am	0.0	0.0	0.4	0.0	0.0	0.1
19/8/2022	9:00:59 am	0.0	0.0	0.4	0.0	0.0	0.1
19/8/2022	9:11:29 am	0.0	0.0	0.5	0.0	0.0	0.1
19/8/2022	9:21:59 am	0.0	0.0	0.4	0.0	0.0	0.1
19/8/2022	9:32:29 am	0.0	0.0	0.5	0.0	0.0	0.1
19/8/2022	9:42:59 am	0.0	0.0	0.8	0.0	0.0	0.1
19/8/2022	9:53:29 am	0.0	0.0	0.9	0.0	0.0	0.1
19/8/2022	10:03:59 am	0.0	0.0	1.1	0.0	1.0	0.1
19/8/2022	10:14:29 am	0.0	0.0	1.2	0.0	1.0	0.1
19/8/2022	10:24:59 am	0.0	0.0	1.2	0.0	1.0	0.1

Air Quality Monitoring Data from Station A2
19 August to 26 August 2022

Equipment: Oceanus OC-1000

Date	Time	PM10 (µg/m3)	PM2.5 (µg/m3)	CO (µg/m3)	O3 (µg/m3)	NO2 (µg/m3)	SO2(µg/m3)
19/8/2022	11:17:31 am	21.0	19.0	0.0	0.0	0.0	0.1
19/8/2022	11:28:01 am	21.0	19.0	0.0	0.0	0.0	0.1
19/8/2022	11:38:31 am	19.0	18.0	0.0	0.0	0.0	0.1
19/8/2022	11:49:01 am	23.0	22.0	0.0	0.0	0.0	0.1
19/8/2022	11:59:31 am	21.0	20.0	0.0	0.0	0.0	0.1
19/8/2022	12:10:01 pm	21.0	19.0	0.0	0.0	0.0	0.1
19/8/2022	12:20:31 pm	23.0	22.0	0.0	0.0	0.0	0.1
19/8/2022	12:31:01 pm	24.0	21.0	0.0	0.0	0.0	0.1
19/8/2022	12:41:31 pm	26.0	24.0	0.0	0.0	0.0	0.1
19/8/2022	12:52:01 pm	24.0	23.0	0.0	0.0	0.0	0.1
19/8/2022	1:02:31 pm	29.0	27.0	0.0	0.0	0.0	0.1
19/8/2022	1:13:01 pm	28.0	24.0	0.0	0.0	0.0	0.1
19/8/2022	1:23:31 pm	28.0	26.0	0.0	0.0	0.0	0.1
19/8/2022	1:34:01 pm	37.0	30.0	0.0	0.0	0.0	0.1
19/8/2022	1:44:31 pm	34.0	31.0	0.0	0.0	0.0	0.1
19/8/2022	1:55:01 pm	32.0	30.0	0.0	0.0	0.0	0.1
19/8/2022	2:05:31 pm	35.0	29.0	0.0	0.0	0.0	0.1
19/8/2022	2:16:00 pm	30.0	27.0	0.0	0.0	0.0	0.1
19/8/2022	2:26:30 pm	27.0	24.0	0.0	0.0	0.0	0.1
19/8/2022	2:37:00 pm	30.0	27.0	0.0	0.0	0.0	0.1
19/8/2022	2:47:30 pm	30.0	28.0	0.0	0.0	0.0	0.1
19/8/2022	2:58:00 pm	31.0	28.0	0.0	0.0	0.0	0.1
19/8/2022	3:08:30 pm	34.0	31.0	0.0	0.0	0.0	0.1
19/8/2022	3:19:00 pm	26.0	25.0	0.0	0.0	0.0	0.1
19/8/2022	3:29:30 pm	32.0	28.0	0.0	0.0	0.0	0.1
19/8/2022	3:40:00 pm	34.0	29.0	0.0	0.0	0.0	0.1
19/8/2022	3:50:30 pm	33.0	28.0	0.0	0.0	0.0	0.1
19/8/2022	4:01:00 pm	28.0	26.0	0.0	0.0	0.0	0.1
19/8/2022	4:11:30 pm	30.0	28.0	0.0	0.0	0.0	0.1
19/8/2022	4:22:00 pm	25.0	23.0	0.0	0.0	0.0	0.1
19/8/2022	4:32:30 pm	20.0	18.0	0.0	0.0	0.0	0.1
19/8/2022	4:43:00 pm	22.0	21.0	0.0	0.0	0.0	0.1
19/8/2022	4:53:30 pm	20.0	19.0	0.0	0.0	0.0	0.1
19/8/2022	5:04:00 pm	20.0	16.0	0.0	0.0	0.0	0.1
19/8/2022	5:14:30 pm	19.0	18.0	0.0	0.0	0.0	0.1
19/8/2022	5:25:00 pm	17.0	15.0	0.0	0.0	0.0	0.1
19/8/2022	5:35:30 pm	18.0	17.0	0.0	0.0	0.0	0.0
19/8/2022	5:46:00 pm	21.0	20.0	0.0	0.0	0.0	0.0
19/8/2022	5:56:30 pm	18.0	18.0	0.0	0.0	0.0	0.0
19/8/2022	6:07:00 pm	18.0	17.0	0.0	0.0	0.0	0.0
19/8/2022	6:17:30 pm	17.0	15.0	0.0	0.0	0.0	0.0
19/8/2022	6:28:00 pm	21.0	20.0	0.0	0.0	0.0	0.0
19/8/2022	6:38:30 pm	22.0	20.0	0.0	0.0	0.0	0.0
19/8/2022	6:49:00 pm	25.0	23.0	0.0	0.0	0.0	0.0
19/8/2022	6:59:30 pm	27.0	24.0	0.0	0.0	0.0	0.0
19/8/2022	7:10:00 pm	24.0	20.0	0.0	0.0	0.0	0.0
19/8/2022	7:20:30 pm	21.0	20.0	0.0	0.0	0.0	0.0

Air Quality Monitoring Data from Station A2
19 August to 26 August 2022

Equipment: Oceanus OC-1000

19/8/2022	7:31:00 pm	21.0	20.0	0.0	0.0	0.0	0.0
19/8/2022	7:41:30 pm	24.0	22.0	0.0	0.0	0.0	0.0
19/8/2022	7:52:00 pm	26.0	23.0	0.0	0.0	0.0	0.0
19/8/2022	8:02:30 pm	20.0	19.0	0.0	0.0	0.0	0.0
19/8/2022	8:13:00 pm	22.0	20.0	0.0	0.0	0.0	0.0
19/8/2022	8:23:30 pm	30.0	28.0	0.0	0.0	0.0	0.0
19/8/2022	8:34:00 pm	33.0	29.0	0.0	0.0	0.0	0.0
19/8/2022	8:44:30 pm	30.0	28.0	0.0	0.0	0.0	0.0
19/8/2022	8:55:00 pm	42.0	33.0	0.0	0.0	0.0	0.0
19/8/2022	9:05:30 pm	34.0	31.0	0.0	0.0	0.0	0.0
19/8/2022	9:16:00 pm	32.0	31.0	0.0	0.0	0.0	0.0
19/8/2022	9:26:30 pm	41.0	35.0	0.0	0.0	0.0	0.0
19/8/2022	9:37:00 pm	36.0	32.0	0.0	0.0	0.0	0.0
19/8/2022	9:47:30 pm	38.0	34.0	0.0	0.0	0.0	0.0
19/8/2022	9:57:59 pm	36.0	32.0	0.0	0.0	0.0	0.0
19/8/2022	10:08:30 pm	39.0	34.0	0.0	0.0	0.0	0.0
19/8/2022	10:18:59 pm	37.0	32.0	0.0	0.0	0.0	0.0
19/8/2022	10:29:30 pm	36.0	33.0	0.0	0.0	0.0	0.0
19/8/2022	10:40:00 pm	39.0	34.0	0.0	0.0	0.0	0.0
19/8/2022	10:50:30 pm	40.0	34.0	0.0	0.0	0.0	0.0
19/8/2022	11:00:59 pm	39.0	34.0	0.0	0.0	0.0	0.0
19/8/2022	11:11:29 pm	38.0	33.0	0.0	0.0	0.0	0.0
19/8/2022	11:21:59 pm	35.0	31.0	0.0	0.0	0.0	0.0
19/8/2022	11:32:29 pm	34.0	31.0	0.0	0.0	0.0	0.0
19/8/2022	11:42:59 pm	35.0	31.0	0.0	0.0	0.0	0.0
19/8/2022	11:53:29 pm	34.0	32.0	0.0	0.0	0.0	0.0
20/8/2022	12:03:59 am	40.0	34.0	0.0	0.0	0.0	0.0
20/8/2022	12:14:29 am	37.0	33.0	0.0	0.0	0.0	0.0
20/8/2022	12:24:59 am	37.0	31.0	0.0	0.0	0.0	0.0
20/8/2022	12:35:29 am	38.0	33.0	0.0	0.0	0.0	0.0
20/8/2022	12:45:59 am	37.0	33.0	0.0	0.0	0.0	0.0
20/8/2022	12:56:29 am	43.0	36.0	0.0	0.0	0.0	0.0
20/8/2022	1:06:59 am	13.0	11.0	0.0	0.0	0.0	0.0
20/8/2022	1:17:29 am	11.0	9.0	0.0	0.0	0.0	0.0
20/8/2022	1:27:59 am	9.0	8.0	0.0	0.0	0.0	0.0
20/8/2022	1:38:29 am	10.0	8.0	0.0	0.0	0.0	0.0
20/8/2022	1:48:59 am	11.0	9.0	0.0	0.0	0.0	0.0
20/8/2022	1:59:29 am	6.0	5.0	0.0	0.0	0.0	0.0
20/8/2022	2:09:59 am	5.0	4.0	0.0	0.0	0.0	0.0
20/8/2022	2:20:29 am	4.0	3.0	0.0	0.0	0.0	0.0
20/8/2022	2:30:59 am	7.0	3.0	0.0	0.0	0.0	0.0
20/8/2022	2:41:29 am	4.0	3.0	0.0	0.0	0.0	0.0
20/8/2022	2:51:59 am	4.0	3.0	0.0	0.0	0.0	0.0
20/8/2022	3:02:29 am	3.0	3.0	0.0	0.0	0.0	0.0
20/8/2022	3:12:59 am	6.0	3.0	0.0	0.0	0.0	0.0
20/8/2022	3:23:29 am	6.0	4.0	0.0	0.0	0.0	0.0
20/8/2022	3:33:59 am	5.0	3.0	0.0	0.0	0.0	0.0
20/8/2022	3:44:29 am	5.0	4.0	0.0	0.0	0.0	0.0

Air Quality Monitoring Data from Station A2
19 August to 26 August 2022

Equipment: Oceanus OC-1000

20/8/2022	3:54:59 am	5.0	5.0	0.0	0.0	0.0	0.0
20/8/2022	4:05:29 am	6.0	5.0	0.0	0.0	0.0	0.0
20/8/2022	4:15:59 am	7.0	4.0	0.0	0.0	0.0	0.0
20/8/2022	4:26:29 am	7.0	4.0	0.0	0.0	0.0	0.0
20/8/2022	4:36:59 am	4.0	4.0	0.0	0.0	0.0	0.0
20/8/2022	4:47:29 am	7.0	4.0	0.0	0.0	0.0	0.0
20/8/2022	4:57:59 am	6.0	5.0	0.0	0.0	0.0	0.0
20/8/2022	5:08:29 am	7.0	5.0	0.0	0.0	0.0	0.0
20/8/2022	5:18:59 am	4.0	4.0	0.0	0.0	0.0	0.0
20/8/2022	5:29:29 am	6.0	6.0	0.0	0.0	0.0	0.0
20/8/2022	5:39:59 am	5.0	5.0	0.0	0.0	0.0	0.0
20/8/2022	5:50:29 am	5.0	5.0	0.0	0.0	0.0	0.0
20/8/2022	6:00:59 am	9.0	6.0	0.0	0.0	0.0	0.0
20/8/2022	6:11:29 am	6.0	6.0	0.0	0.0	0.0	0.0
20/8/2022	6:21:59 am	4.0	4.0	0.0	0.0	0.0	0.0
20/8/2022	6:32:29 am	7.0	7.0	0.0	0.0	0.0	0.0
20/8/2022	6:42:59 am	9.0	7.0	0.0	0.0	0.0	0.0
20/8/2022	6:53:29 am	9.0	6.0	0.0	0.0	0.0	0.0
20/8/2022	7:03:59 am	8.0	8.0	0.0	0.0	0.0	0.0
20/8/2022	7:14:29 am	7.0	7.0	0.0	0.0	0.0	0.0
20/8/2022	7:24:59 am	7.0	7.0	0.0	0.0	0.0	0.0
20/8/2022	7:35:29 am	8.0	7.0	0.0	0.0	0.0	0.0
20/8/2022	7:45:59 am	8.0	8.0	0.0	0.0	0.0	0.0
20/8/2022	7:56:29 am	10.0	8.0	0.0	0.0	0.0	0.0
20/8/2022	8:06:59 am	12.0	11.0	0.0	0.0	0.0	0.0
20/8/2022	8:17:29 am	14.0	13.0	0.0	0.0	0.0	0.0
20/8/2022	8:27:59 am	11.0	10.0	0.0	0.0	0.0	0.0
20/8/2022	8:38:29 am	16.0	16.0	0.0	0.0	0.0	0.0
20/8/2022	8:48:59 am	22.0	22.0	0.0	0.0	0.0	0.0
20/8/2022	8:59:29 am	24.0	22.0	0.0	0.0	0.0	0.0
20/8/2022	9:09:59 am	20.0	17.0	0.0	0.0	0.0	0.0
20/8/2022	9:20:29 am	12.0	11.0	0.0	0.0	0.0	0.0
20/8/2022	9:30:59 am	11.0	10.0	0.0	0.0	0.0	0.0
20/8/2022	9:41:29 am	7.0	6.0	0.0	0.0	0.0	0.0
20/8/2022	9:51:59 am	5.0	5.0	0.0	0.0	0.0	0.0
20/8/2022	10:02:29 am	4.0	4.0	0.0	0.0	0.0	0.0
20/8/2022	10:12:59 am	6.0	6.0	0.0	0.0	0.0	0.0
20/8/2022	10:23:29 am	8.0	6.0	0.0	0.0	0.0	0.0
20/8/2022	10:33:59 am	5.0	4.0	0.0	0.0	0.0	0.0
20/8/2022	10:44:29 am	8.0	7.0	0.0	0.0	0.0	0.0
20/8/2022	10:54:59 am	11.0	9.0	0.0	0.0	0.0	0.0
20/8/2022	11:05:29 am	10.0	9.0	0.0	0.0	0.0	0.0
20/8/2022	11:15:59 am	11.0	11.0	0.0	0.0	0.0	0.0
20/8/2022	11:26:29 am	15.0	14.0	0.0	0.0	0.0	0.0
20/8/2022	11:36:59 am	14.0	14.0	0.0	0.0	0.0	0.1
20/8/2022	11:47:29 am	16.0	15.0	0.0	0.0	0.0	0.1
20/8/2022	11:57:59 am	21.0	21.0	0.0	0.0	0.0	0.1
20/8/2022	12:08:29 pm	25.0	23.0	0.0	0.0	0.0	0.1

Air Quality Monitoring Data from Station A2
19 August to 26 August 2022

Equipment: Oceanus OC-1000

20/8/2022	12:18:59 pm	21.0	19.0	0.0	0.0	0.0	0.1
20/8/2022	12:29:29 pm	22.0	22.0	0.0	0.0	0.0	0.1
20/8/2022	12:39:59 pm	24.0	23.0	0.0	0.0	0.0	0.1
20/8/2022	12:50:29 pm	29.0	27.0	0.0	0.0	0.0	0.1
20/8/2022	1:00:59 pm	36.0	32.0	0.0	0.0	0.0	0.1
20/8/2022	1:11:29 pm	33.0	30.0	0.0	0.0	0.0	0.1
20/8/2022	1:21:59 pm	28.0	26.0	0.0	0.0	0.0	0.1
20/8/2022	1:32:29 pm	30.0	28.0	0.0	0.0	0.0	0.1
20/8/2022	1:42:59 pm	32.0	28.0	0.0	0.0	0.0	0.1
20/8/2022	1:53:29 pm	34.0	31.0	0.0	0.0	0.0	0.1
20/8/2022	2:03:59 pm	30.0	29.0	0.0	0.0	0.0	0.1
20/8/2022	2:14:29 pm	30.0	28.0	0.0	0.0	0.0	0.1
20/8/2022	2:24:59 pm	38.0	32.0	0.0	0.0	0.0	0.1
20/8/2022	2:35:29 pm	30.0	28.0	0.0	0.0	0.0	0.1
20/8/2022	2:45:59 pm	33.0	28.0	0.0	0.0	0.0	0.1
20/8/2022	2:56:29 pm	32.0	27.0	0.0	0.0	0.0	0.1
20/8/2022	3:06:59 pm	31.0	28.0	0.0	0.0	0.0	0.1
20/8/2022	3:17:29 pm	27.0	26.0	0.0	0.0	0.0	0.1
20/8/2022	3:27:59 pm	31.0	28.0	0.0	0.0	0.0	0.1
20/8/2022	3:38:29 pm	26.0	25.0	0.0	0.0	0.0	0.1
20/8/2022	3:48:59 pm	29.0	25.0	0.0	0.0	0.0	0.1
20/8/2022	3:59:29 pm	30.0	25.0	0.0	0.0	0.0	0.1
20/8/2022	4:09:59 pm	28.0	26.0	0.0	0.0	0.0	0.1
20/8/2022	4:20:29 pm	25.0	25.0	0.0	0.0	0.0	0.1
20/8/2022	4:30:59 pm	34.0	31.0	0.0	0.0	0.0	0.0
20/8/2022	4:41:29 pm	26.0	25.0	0.0	0.0	0.0	0.0
20/8/2022	4:51:59 pm	19.0	19.0	0.0	0.0	0.0	0.0
20/8/2022	5:02:29 pm	26.0	24.0	0.0	0.0	0.0	0.0
20/8/2022	5:12:59 pm	17.0	16.0	0.0	0.0	0.0	0.0
20/8/2022	5:23:29 pm	17.0	16.0	0.0	0.0	0.0	0.0
20/8/2022	5:33:59 pm	27.0	26.0	0.0	0.0	0.0	0.0
20/8/2022	5:44:29 pm	27.0	24.0	0.0	0.0	0.0	0.0
20/8/2022	5:54:59 pm	33.0	30.0	0.0	0.0	0.0	0.0
20/8/2022	6:05:29 pm	32.0	28.0	0.0	0.0	0.0	0.0
20/8/2022	6:15:59 pm	22.0	22.0	0.0	0.0	0.0	0.0
20/8/2022	6:26:29 pm	23.0	21.0	0.0	0.0	0.0	0.0
20/8/2022	6:36:59 pm	25.0	24.0	0.0	0.0	0.0	0.0
20/8/2022	6:47:29 pm	26.0	25.0	0.0	0.0	0.0	0.0
20/8/2022	6:57:59 pm	32.0	29.0	0.0	0.0	0.0	0.0
20/8/2022	7:08:29 pm	28.0	27.0	0.0	0.0	0.0	0.0
20/8/2022	7:18:59 pm	30.0	29.0	0.0	0.0	0.0	0.0
20/8/2022	7:29:29 pm	34.0	29.0	0.0	0.0	0.0	0.0
20/8/2022	7:39:59 pm	26.0	24.0	0.0	0.0	0.0	0.0
20/8/2022	7:50:29 pm	31.0	29.0	0.0	0.0	0.0	0.0
20/8/2022	8:00:59 pm	30.0	28.0	0.0	0.0	0.0	0.0
20/8/2022	8:11:29 pm	33.0	30.0	0.0	0.0	0.0	0.0
20/8/2022	8:21:59 pm	34.0	30.0	0.0	0.0	0.0	0.0
20/8/2022	8:32:29 pm	29.0	28.0	0.0	0.0	0.0	0.0

Air Quality Monitoring Data from Station A2
19 August to 26 August 2022

Equipment: Oceanus OC-1000

20/8/2022	8:42:59 pm	27.0	25.0	0.0	0.0	0.0	0.0
20/8/2022	8:53:29 pm	34.0	31.0	0.0	0.0	0.0	0.0
20/8/2022	9:03:59 pm	36.0	32.0	0.0	0.0	0.0	0.0
20/8/2022	9:14:29 pm	33.0	30.0	0.0	0.0	0.0	0.0
20/8/2022	9:24:59 pm	33.0	30.0	0.0	0.0	0.0	0.0
20/8/2022	9:35:29 pm	29.0	28.0	0.0	0.0	0.0	0.0
20/8/2022	9:45:59 pm	41.0	35.0	0.0	0.0	0.0	0.0
20/8/2022	9:56:29 pm	35.0	31.0	0.0	0.0	0.0	0.0
20/8/2022	10:06:59 pm	39.0	32.0	0.0	0.0	0.0	0.0
20/8/2022	10:17:29 pm	31.0	30.0	0.0	0.0	0.0	0.0
20/8/2022	10:27:59 pm	33.0	30.0	0.0	0.0	0.0	0.0
20/8/2022	10:38:29 pm	34.0	30.0	0.0	0.0	0.0	0.0
20/8/2022	10:48:59 pm	30.0	27.0	0.0	0.0	0.0	0.0
20/8/2022	10:59:29 pm	33.0	29.0	0.0	0.0	0.0	0.0
20/8/2022	11:09:59 pm	30.0	28.0	0.0	0.0	0.0	0.0
20/8/2022	11:20:29 pm	35.0	31.0	0.0	0.0	0.0	0.0
20/8/2022	11:30:59 pm	31.0	29.0	0.0	0.0	0.0	0.0
20/8/2022	11:41:29 pm	33.0	31.0	0.0	0.0	0.0	0.0
20/8/2022	11:51:59 pm	32.0	29.0	0.0	0.0	0.0	0.0
21/8/2022	12:02:29 am	31.0	29.0	0.0	0.0	0.0	0.0
21/8/2022	12:12:59 am	37.0	32.0	0.0	0.0	0.0	0.0
21/8/2022	12:23:29 am	31.0	29.0	0.0	0.0	0.0	0.0
21/8/2022	12:33:59 am	28.0	27.0	0.0	0.0	0.0	0.0
21/8/2022	12:44:29 am	46.0	37.0	0.0	0.0	0.0	0.0
21/8/2022	12:54:59 am	43.0	35.0	0.0	0.0	0.0	0.0
21/8/2022	1:05:29 am	24.0	23.0	0.0	0.0	0.0	0.0
21/8/2022	1:15:59 am	30.0	27.0	0.0	0.0	0.0	0.0
21/8/2022	1:26:29 am	29.0	27.0	0.0	0.0	0.0	0.0
21/8/2022	1:36:59 am	27.0	25.0	0.0	0.0	0.0	0.0
21/8/2022	1:47:29 am	26.0	24.0	0.0	0.0	0.0	0.0
21/8/2022	1:57:59 am	23.0	23.0	0.0	0.0	0.0	0.0
21/8/2022	2:08:29 am	29.0	24.0	0.0	0.0	0.0	0.0
21/8/2022	2:18:59 am	24.0	22.0	0.0	0.0	0.0	0.0
21/8/2022	2:29:29 am	21.0	20.0	0.0	0.0	0.0	0.0
21/8/2022	2:39:59 am	22.0	21.0	0.0	0.0	0.0	0.0
21/8/2022	2:50:29 am	28.0	25.0	0.0	0.0	0.0	0.0
21/8/2022	3:00:59 am	23.0	22.0	0.0	0.0	0.0	0.0
21/8/2022	3:11:29 am	25.0	24.0	0.0	0.0	0.0	0.0
21/8/2022	3:21:59 am	18.0	15.0	0.0	0.0	0.0	0.0
21/8/2022	3:32:29 am	12.0	12.0	0.0	0.0	0.0	0.0
21/8/2022	3:42:59 am	12.0	11.0	0.0	0.0	0.0	0.0
21/8/2022	3:53:29 am	12.0	10.0	0.0	0.0	0.0	0.0
21/8/2022	4:03:59 am	11.0	10.0	0.0	0.0	0.0	0.0
21/8/2022	4:14:29 am	10.0	9.0	0.0	0.0	0.0	0.0
21/8/2022	4:24:59 am	11.0	9.0	0.0	0.0	0.0	0.0
21/8/2022	4:35:29 am	12.0	10.0	0.0	0.0	0.0	0.0
21/8/2022	4:45:59 am	12.0	11.0	0.0	0.0	0.0	0.0
21/8/2022	4:56:29 am	13.0	13.0	0.0	0.0	0.0	0.0

Air Quality Monitoring Data from Station A2
19 August to 26 August 2022

Equipment: Oceanus OC-1000

21/8/2022	5:06:59 am	16.0	13.0	0.0	0.0	0.0	0.0
21/8/2022	5:17:29 am	13.0	13.0	0.0	0.0	0.0	0.0
21/8/2022	5:27:59 am	12.0	11.0	0.0	0.0	0.0	0.0
21/8/2022	5:38:29 am	17.0	15.0	0.0	0.0	0.0	0.0
21/8/2022	5:48:59 am	17.0	15.0	0.0	0.0	0.0	0.0
21/8/2022	5:59:29 am	15.0	14.0	0.0	0.0	0.0	0.0
21/8/2022	6:09:59 am	15.0	14.0	0.0	0.0	0.0	0.0
21/8/2022	6:20:29 am	18.0	18.0	0.0	0.0	0.0	0.0
21/8/2022	6:30:59 am	16.0	15.0	0.0	0.0	0.0	0.0
21/8/2022	6:41:29 am	18.0	17.0	0.0	0.0	0.0	0.0
21/8/2022	6:51:59 am	16.0	16.0	0.0	0.0	0.0	0.0
21/8/2022	7:02:29 am	15.0	14.0	0.0	0.0	0.0	0.0
21/8/2022	7:12:59 am	19.0	17.0	0.0	0.0	0.0	0.0
21/8/2022	7:23:29 am	17.0	16.0	0.0	0.0	0.0	0.0
21/8/2022	7:33:59 am	18.0	17.0	0.0	0.0	0.0	0.0
21/8/2022	7:44:29 am	17.0	16.0	0.0	0.0	0.0	0.0
21/8/2022	7:54:59 am	16.0	15.0	0.0	0.0	0.0	0.0
21/8/2022	8:05:29 am	19.0	17.0	0.0	0.0	0.0	0.0
21/8/2022	8:15:59 am	29.0	27.0	0.0	0.0	0.0	0.0
21/8/2022	8:26:29 am	27.0	26.0	0.0	0.0	0.0	0.0
21/8/2022	8:36:59 am	26.0	25.0	0.0	0.0	0.0	0.0
21/8/2022	8:47:29 am	26.0	23.0	0.0	0.0	0.0	0.0
21/8/2022	8:57:59 am	22.0	19.0	0.0	0.0	0.0	0.0
21/8/2022	9:08:29 am	18.0	18.0	0.0	0.0	0.0	0.0
21/8/2022	9:18:59 am	17.0	16.0	0.0	0.0	0.0	0.0
21/8/2022	9:29:29 am	20.0	17.0	0.0	0.0	0.0	0.0
21/8/2022	9:39:59 am	14.0	12.0	0.0	0.0	0.0	0.0
21/8/2022	9:50:29 am	14.0	14.0	0.0	0.0	0.0	0.0
21/8/2022	10:00:59 am	17.0	16.0	0.0	0.0	0.0	0.0
21/8/2022	10:11:29 am	20.0	17.0	0.0	0.0	0.0	0.1
21/8/2022	10:21:59 am	14.0	14.0	0.0	0.0	0.0	0.1
21/8/2022	10:32:29 am	17.0	15.0	0.0	0.0	0.0	0.1
21/8/2022	10:42:59 am	18.0	15.0	0.0	0.0	0.0	0.1
21/8/2022	10:53:29 am	17.0	17.0	0.0	0.0	0.0	0.1
21/8/2022	11:03:59 am	19.0	19.0	0.0	0.0	0.0	0.1
21/8/2022	11:14:29 am	17.0	15.0	0.0	0.0	0.0	0.1
21/8/2022	11:24:59 am	13.0	13.0	0.0	0.0	0.0	0.1
21/8/2022	11:35:29 am	17.0	16.0	0.0	0.0	0.0	0.1
21/8/2022	11:45:59 am	23.0	21.0	0.0	0.0	0.0	0.1
21/8/2022	11:56:29 am	23.0	20.0	0.0	0.0	0.0	0.1
21/8/2022	12:06:59 pm	25.0	24.0	0.0	0.0	0.0	0.1
21/8/2022	12:17:29 pm	20.0	18.0	0.0	0.0	0.0	0.1
21/8/2022	12:27:59 pm	14.0	13.0	0.0	0.0	0.0	0.1
21/8/2022	12:38:29 pm	15.0	13.0	0.0	0.0	0.0	0.1
21/8/2022	12:48:59 pm	13.0	13.0	0.0	0.0	0.0	0.1
21/8/2022	12:59:29 pm	12.0	11.0	0.0	0.0	0.0	0.1
21/8/2022	1:09:59 pm	14.0	12.0	0.0	0.0	0.0	0.1
21/8/2022	1:20:29 pm	14.0	13.0	0.0	0.0	0.0	0.1

Air Quality Monitoring Data from Station A2
19 August to 26 August 2022

Equipment: Oceanus OC-1000

21/8/2022	1:30:59 pm	14.0	12.0	0.0	0.0	0.0	0.1
21/8/2022	1:41:29 pm	16.0	14.0	0.0	0.0	0.0	0.1
21/8/2022	1:51:59 pm	20.0	16.0	0.0	0.0	0.0	0.1
21/8/2022	2:02:29 pm	16.0	14.0	0.0	0.0	0.0	0.1
21/8/2022	2:12:59 pm	17.0	15.0	0.0	0.0	0.0	0.1
21/8/2022	2:23:29 pm	15.0	11.0	0.0	0.0	0.0	0.1
21/8/2022	2:33:59 pm	14.0	12.0	0.0	0.0	0.0	0.1
21/8/2022	2:44:29 pm	12.0	12.0	0.0	0.0	0.0	0.1
21/8/2022	2:54:59 pm	13.0	11.0	0.0	0.0	0.0	0.1
21/8/2022	3:05:29 pm	14.0	11.0	0.0	0.0	0.0	0.1
21/8/2022	3:15:59 pm	18.0	14.0	0.0	0.0	0.0	0.1
21/8/2022	3:26:29 pm	15.0	15.0	0.0	0.0	0.0	0.1
21/8/2022	3:36:59 pm	13.0	13.0	0.0	0.0	0.0	0.1
21/8/2022	3:47:29 pm	22.0	20.0	0.0	0.0	0.0	0.1
21/8/2022	3:57:59 pm	25.0	23.0	0.0	0.0	0.0	0.1
21/8/2022	4:08:29 pm	24.0	23.0	0.0	0.0	0.0	0.1
21/8/2022	4:18:59 pm	23.0	21.0	0.0	0.0	0.0	0.1
21/8/2022	4:29:29 pm	22.0	20.0	0.0	0.0	0.0	0.0
21/8/2022	4:39:59 pm	18.0	17.0	0.0	0.0	0.0	0.0
21/8/2022	4:50:29 pm	21.0	19.0	0.0	0.0	0.0	0.0
21/8/2022	5:00:59 pm	18.0	16.0	0.0	0.0	0.0	0.0
21/8/2022	5:11:29 pm	18.0	16.0	0.0	0.0	0.0	0.0
21/8/2022	5:21:59 pm	16.0	15.0	0.0	0.0	0.0	0.0
21/8/2022	5:32:29 pm	16.0	15.0	0.0	0.0	0.0	0.0
21/8/2022	5:42:59 pm	16.0	13.0	0.0	0.0	0.0	0.0
21/8/2022	5:53:29 pm	13.0	13.0	0.0	0.0	0.0	0.0
21/8/2022	6:03:59 pm	15.0	15.0	0.0	0.0	0.0	0.0
21/8/2022	6:14:29 pm	18.0	16.0	0.0	0.0	0.0	0.0
21/8/2022	6:24:59 pm	15.0	14.0	0.0	0.0	0.0	0.0
21/8/2022	6:35:29 pm	18.0	18.0	0.0	0.0	0.0	0.0
21/8/2022	6:45:59 pm	22.0	20.0	0.0	0.0	0.0	0.0
21/8/2022	6:56:29 pm	18.0	18.0	0.0	0.0	0.0	0.0
21/8/2022	7:06:59 pm	25.0	23.0	0.0	0.0	0.0	0.1
21/8/2022	7:17:29 pm	27.0	26.0	0.0	0.0	0.0	0.1
21/8/2022	7:27:59 pm	25.0	25.0	0.0	0.0	0.0	0.0
21/8/2022	7:38:29 pm	28.0	26.0	0.0	0.0	0.0	0.0
21/8/2022	7:48:59 pm	29.0	27.0	0.0	0.0	0.0	0.0
21/8/2022	7:59:29 pm	26.0	24.0	0.0	0.0	0.0	0.0
21/8/2022	8:09:59 pm	34.0	31.0	0.0	0.0	0.0	0.0
21/8/2022	8:20:29 pm	29.0	28.0	0.0	0.0	0.0	0.0
21/8/2022	8:30:59 pm	33.0	31.0	0.0	0.0	0.0	0.0
21/8/2022	8:41:29 pm	35.0	31.0	0.0	0.0	0.0	0.0
21/8/2022	8:51:59 pm	31.0	27.0	0.0	0.0	0.0	0.0
21/8/2022	9:02:29 pm	31.0	27.0	0.0	0.0	0.0	0.0
21/8/2022	9:12:59 pm	20.0	20.0	0.0	0.0	0.0	0.0
21/8/2022	9:23:29 pm	14.0	14.0	0.0	0.0	0.0	0.0
21/8/2022	9:33:59 pm	10.0	9.0	0.0	0.0	0.0	0.0
21/8/2022	9:44:29 pm	14.0	13.0	0.0	0.0	0.0	0.0

Air Quality Monitoring Data from Station A2
19 August to 26 August 2022

Equipment: Oceanus OC-1000

21/8/2022	9:54:59 pm	12.0	10.0	0.0	0.0	0.0	0.0
21/8/2022	10:05:29 pm	12.0	11.0	0.0	0.0	0.0	0.0
21/8/2022	10:15:59 pm	20.0	17.0	0.0	0.0	0.0	0.0
21/8/2022	10:26:29 pm	19.0	17.0	0.0	0.0	0.0	0.0
21/8/2022	10:36:59 pm	21.0	19.0	0.0	0.0	0.0	0.0
21/8/2022	10:47:29 pm	17.0	17.0	0.0	0.0	0.0	0.0
21/8/2022	10:57:59 pm	22.0	20.0	0.0	0.0	0.0	0.0
21/8/2022	11:08:29 pm	19.0	18.0	0.0	0.0	0.0	0.0
21/8/2022	11:18:59 pm	32.0	29.0	0.0	0.0	0.0	0.0
21/8/2022	11:29:29 pm	23.0	22.0	0.0	0.0	0.0	0.0
21/8/2022	11:39:59 pm	33.0	30.0	0.0	0.0	0.0	0.0
21/8/2022	11:50:29 pm	19.0	18.0	0.0	0.0	0.0	0.0
22/8/2022	12:00:59 am	3.0	2.0	0.0	0.0	0.0	0.0
22/8/2022	12:11:29 am	4.0	1.0	0.0	0.0	0.0	0.0
22/8/2022	12:21:59 am	1.0	1.0	0.0	0.0	0.0	0.0
22/8/2022	12:32:29 am	3.0	1.0	0.0	0.0	0.0	0.0
22/8/2022	12:42:59 am	3.0	2.0	0.0	0.0	0.0	0.0
22/8/2022	12:53:29 am	4.0	2.0	0.0	0.0	0.0	0.0
22/8/2022	1:03:59 am	2.0	1.0	0.0	0.0	0.0	0.0
22/8/2022	1:14:29 am	4.0	1.0	0.0	0.0	0.0	0.0
22/8/2022	1:24:59 am	1.0	1.0	0.0	0.0	0.0	0.0
22/8/2022	1:35:29 am	2.0	1.0	0.0	0.0	0.0	0.0
22/8/2022	1:45:59 am	4.0	2.0	0.0	0.0	0.0	0.0
22/8/2022	1:56:29 am	1.0	1.0	0.0	0.0	0.0	0.0
22/8/2022	2:06:59 am	4.0	2.0	0.0	0.0	0.0	0.0
22/8/2022	2:17:29 am	5.0	3.0	0.0	0.0	0.0	0.0
22/8/2022	2:27:59 am	3.0	2.0	0.0	0.0	0.0	0.0
22/8/2022	2:38:29 am	4.0	2.0	0.0	0.0	0.0	0.0
22/8/2022	2:48:59 am	3.0	2.0	0.0	0.0	0.0	0.0
22/8/2022	2:59:29 am	3.0	2.0	0.0	0.0	0.0	0.0
22/8/2022	3:09:59 am	3.0	3.0	0.0	0.0	0.0	0.0
22/8/2022	3:20:29 am	3.0	3.0	0.0	0.0	0.0	0.0
22/8/2022	3:30:59 am	2.0	1.0	0.0	0.0	0.0	0.0
22/8/2022	3:41:29 am	1.0	1.0	0.0	0.0	0.0	0.0
22/8/2022	3:51:59 am	2.0	2.0	0.0	0.0	0.0	0.0
22/8/2022	4:02:29 am	3.0	3.0	0.0	0.0	0.0	0.0
22/8/2022	4:12:59 am	1.0	1.0	0.0	0.0	0.0	0.0
22/8/2022	4:23:29 am	5.0	3.0	0.0	0.0	0.0	0.0
22/8/2022	4:33:59 am	3.0	3.0	0.0	0.0	0.0	0.0
22/8/2022	4:44:29 am	5.0	4.0	0.0	0.0	0.0	0.0
22/8/2022	4:54:59 am	6.0	5.0	0.0	0.0	0.0	0.0
22/8/2022	5:05:29 am	6.0	5.0	0.0	0.0	0.0	0.0
22/8/2022	5:15:59 am	8.0	5.0	0.0	0.0	0.0	0.0
22/8/2022	5:26:29 am	8.0	7.0	0.0	0.0	0.0	0.0
22/8/2022	5:36:59 am	8.0	8.0	0.0	0.0	0.0	0.0
22/8/2022	5:47:29 am	11.0	10.0	0.0	0.0	0.0	0.0
22/8/2022	5:57:59 am	11.0	8.0	0.0	0.0	0.0	0.0
22/8/2022	6:08:29 am	13.0	9.0	0.0	0.0	0.0	0.0

Air Quality Monitoring Data from Station A2
19 August to 26 August 2022

Equipment: Oceanus OC-1000

22/8/2022	6:18:59 am	11.0	9.0	0.0	0.0	0.0	0.0
22/8/2022	6:29:29 am	9.0	8.0	0.0	0.0	0.0	0.0
22/8/2022	6:39:59 am	9.0	8.0	0.0	0.0	0.0	0.0
22/8/2022	6:50:29 am	8.0	6.0	0.0	0.0	0.0	0.0
22/8/2022	7:00:59 am	5.0	4.0	0.0	0.0	0.0	0.0
22/8/2022	7:11:29 am	5.0	4.0	0.0	0.0	0.0	0.0
22/8/2022	7:21:59 am	6.0	5.0	0.0	0.0	0.0	0.0
22/8/2022	7:32:29 am	6.0	5.0	0.0	0.0	0.0	0.0
22/8/2022	7:42:59 am	4.0	4.0	0.0	0.0	0.0	0.0
22/8/2022	7:53:29 am	5.0	5.0	0.0	0.0	0.0	0.0
22/8/2022	8:03:59 am	4.0	3.0	0.0	0.0	0.0	0.0
22/8/2022	8:14:29 am	3.0	2.0	0.0	0.0	0.0	0.0
22/8/2022	8:24:59 am	3.0	3.0	0.0	0.0	0.0	0.0
22/8/2022	8:35:29 am	6.0	5.0	0.0	0.0	0.0	0.0
22/8/2022	8:45:59 am	3.0	3.0	0.0	0.0	0.0	0.1
22/8/2022	8:56:29 am	4.0	3.0	0.0	0.0	0.0	0.1
22/8/2022	9:06:59 am	3.0	3.0	0.0	0.0	0.0	0.1
22/8/2022	9:17:29 am	3.0	2.0	0.0	0.0	0.0	0.0
22/8/2022	9:27:59 am	2.0	2.0	0.0	0.0	0.0	0.0
22/8/2022	9:38:29 am	4.0	3.0	0.0	0.0	0.0	0.0
22/8/2022	9:48:59 am	3.0	2.0	0.0	0.0	0.0	0.1
22/8/2022	9:59:29 am	5.0	4.0	0.0	0.0	0.0	0.1
22/8/2022	10:09:59 am	16.0	15.0	0.0	0.0	0.0	0.0
22/8/2022	10:20:29 am	9.0	8.0	0.0	0.0	0.0	0.1
22/8/2022	10:30:59 am	11.0	11.0	0.0	0.0	0.0	0.0
22/8/2022	10:41:29 am	12.0	11.0	0.0	0.0	0.0	0.0
22/8/2022	10:51:59 am	11.0	11.0	0.0	0.0	0.0	0.1
22/8/2022	11:02:29 am	14.0	13.0	0.0	0.0	0.0	0.1
22/8/2022	11:12:59 am	20.0	14.0	0.0	0.0	0.0	0.1
22/8/2022	11:23:29 am	31.0	28.0	0.0	0.0	0.0	0.1
22/8/2022	11:33:59 am	33.0	28.0	0.0	0.0	0.0	0.0
22/8/2022	11:44:29 am	7.0	3.0	0.0	0.0	0.0	0.1
22/8/2022	11:54:59 am	24.0	22.0	0.0	0.0	0.0	0.1
22/8/2022	12:05:29 pm	33.0	32.0	0.0	0.0	0.0	0.1
22/8/2022	12:15:59 pm	23.0	21.0	0.0	0.0	0.0	0.1
22/8/2022	12:26:29 pm	25.0	23.0	0.0	0.0	0.0	0.0
22/8/2022	12:36:59 pm	9.0	6.0	0.0	0.0	0.0	0.0
22/8/2022	12:47:29 pm	23.0	21.0	0.0	0.0	0.0	0.1
22/8/2022	12:57:59 pm	28.0	27.0	0.0	0.0	0.0	0.1
22/8/2022	1:08:29 pm	24.0	23.0	0.0	0.0	0.0	0.0
22/8/2022	1:18:59 pm	21.0	21.0	0.0	0.0	0.0	0.1
22/8/2022	1:29:29 pm	8.0	6.0	0.0	0.0	0.0	0.0
22/8/2022	1:39:59 pm	19.0	15.0	0.0	0.0	0.0	0.0
22/8/2022	1:50:29 pm	18.0	16.0	0.0	0.0	0.0	0.1
22/8/2022	2:00:59 pm	5.0	4.0	0.0	0.0	0.0	0.0
22/8/2022	2:11:29 pm	24.0	21.0	0.0	0.0	0.0	0.0
22/8/2022	2:21:59 pm	32.0	28.0	0.0	0.0	0.0	0.0
22/8/2022	2:32:29 pm	25.0	23.0	0.0	0.0	0.0	0.1

Air Quality Monitoring Data from Station A2
19 August to 26 August 2022

Equipment: Oceanus OC-1000

22/8/2022	2:42:59 pm	35.0	32.0	0.0	0.0	0.0	0.0
22/8/2022	2:53:29 pm	34.0	32.0	0.0	0.0	0.0	0.0
22/8/2022	3:03:59 pm	9.0	6.0	0.0	0.0	0.0	0.0
22/8/2022	3:14:29 pm	21.0	20.0	0.0	0.0	0.0	0.1
22/8/2022	3:24:59 pm	11.0	10.0	0.0	0.0	0.0	0.1
22/8/2022	3:35:29 pm	33.0	32.0	0.0	0.0	0.0	0.1
22/8/2022	3:45:59 pm	9.0	6.0	0.0	0.0	0.0	0.0
22/8/2022	3:56:29 pm	33.0	29.0	0.0	0.0	0.0	0.1
22/8/2022	4:06:59 pm	23.0	19.0	0.0	0.0	0.0	0.0
22/8/2022	4:17:29 pm	32.0	29.0	0.0	0.0	0.0	0.0
22/8/2022	4:27:59 pm	17.0	15.0	0.0	0.0	0.0	0.1
22/8/2022	4:38:29 pm	21.0	19.0	0.0	0.0	0.0	0.0
22/8/2022	4:48:59 pm	8.0	6.0	0.0	0.0	0.0	0.1
22/8/2022	4:59:29 pm	5.0	4.0	0.0	0.0	0.0	0.0
22/8/2022	5:09:59 pm	15.0	15.0	0.0	0.0	0.0	0.0
22/8/2022	5:20:29 pm	18.0	17.0	0.0	0.0	0.0	0.0
22/8/2022	5:30:59 pm	12.0	11.0	0.0	0.0	0.0	0.0
22/8/2022	5:41:29 pm	14.0	13.0	0.0	0.0	0.0	0.0
22/8/2022	5:51:59 pm	5.0	5.0	0.0	0.0	0.0	0.0
22/8/2022	6:02:29 pm	14.0	10.0	0.0	0.0	0.0	0.0
22/8/2022	6:12:59 pm	33.0	32.0	0.0	0.0	0.0	0.0
22/8/2022	6:23:29 pm	22.0	20.0	0.0	0.0	0.0	0.1
22/8/2022	6:33:59 pm	11.0	9.0	0.0	0.0	0.0	0.0
22/8/2022	6:44:29 pm	35.0	13.0	0.0	0.0	0.0	0.0
22/8/2022	6:54:59 pm	27.0	25.0	0.0	0.0	0.0	0.1
22/8/2022	7:05:29 pm	12.0	10.0	0.0	0.0	0.0	0.0
22/8/2022	7:15:59 pm	33.0	31.0	0.0	0.0	0.0	0.0
22/8/2022	7:26:29 pm	24.0	24.0	0.0	0.0	0.0	0.1
22/8/2022	7:36:59 pm	32.0	31.0	0.0	0.0	0.0	0.1
22/8/2022	7:47:29 pm	1.0	1.0	0.0	0.0	0.0	0.0
22/8/2022	7:57:59 pm	3.0	2.0	0.0	0.0	0.0	0.0
22/8/2022	8:08:29 pm	34.0	34.0	0.0	0.0	0.0	0.0
22/8/2022	8:18:59 pm	18.0	13.0	0.0	0.0	0.0	0.0
22/8/2022	8:29:29 pm	31.0	29.0	0.0	0.0	0.0	0.0
22/8/2022	8:39:59 pm	19.0	18.0	0.0	0.0	0.0	0.0
22/8/2022	8:50:29 pm	25.0	24.0	0.0	0.0	0.0	0.1
22/8/2022	9:00:59 pm	24.0	23.0	0.0	0.0	0.0	0.0
22/8/2022	9:11:29 pm	32.0	30.0	0.0	0.0	0.0	0.0
22/8/2022	9:21:59 pm	19.0	17.0	0.0	0.0	0.0	0.1
22/8/2022	9:32:29 pm	11.0	9.0	0.0	0.0	0.0	0.1
22/8/2022	9:42:59 pm	17.0	15.0	0.0	0.0	0.0	0.0
22/8/2022	9:53:29 pm	7.0	6.0	0.0	0.0	0.0	0.0
22/8/2022	10:03:59 pm	18.0	13.0	0.0	0.0	0.0	0.1
22/8/2022	10:14:29 pm	22.0	21.0	0.0	0.0	0.0	0.0
22/8/2022	10:24:59 pm	23.0	19.0	0.0	0.0	0.0	0.0
22/8/2022	10:35:29 pm	12.0	8.0	0.0	0.0	0.0	0.0
22/8/2022	10:45:59 pm	33.0	29.0	0.0	0.0	0.0	0.0
22/8/2022	10:56:29 pm	13.0	9.0	0.0	0.0	0.0	0.0

Air Quality Monitoring Data from Station A2
19 August to 26 August 2022

Equipment: Oceanus OC-1000

22/8/2022	11:06:59 pm	12.0	10.0	0.0	0.0	0.0	0.1
22/8/2022	11:17:29 pm	12.0	12.0	0.0	0.0	0.0	0.1
22/8/2022	11:27:59 pm	5.0	4.0	0.0	0.0	0.0	0.0
22/8/2022	11:38:29 pm	11.0	8.0	0.0	0.0	0.0	0.0
22/8/2022	11:48:59 pm	34.0	34.0	0.0	0.0	0.0	0.1
22/8/2022	11:59:29 pm	19.0	18.0	0.0	0.0	0.0	0.1
23/8/2022	12:09:59 am	25.0	21.0	0.0	0.0	0.0	0.1
23/8/2022	12:20:29 am	9.0	7.0	0.0	0.0	0.0	0.1
23/8/2022	12:30:59 am	2.0	2.0	0.0	0.0	0.0	0.0
23/8/2022	12:41:29 am	6.0	4.0	0.0	0.0	0.0	0.0
23/8/2022	12:51:59 am	9.0	9.0	0.0	0.0	0.0	0.0
23/8/2022	1:02:29 am	35.0	35.0	0.0	0.0	0.0	0.0
23/8/2022	1:12:59 am	24.0	21.0	0.0	0.0	0.0	0.1
23/8/2022	1:23:29 am	34.0	29.0	0.0	0.0	0.0	0.0
23/8/2022	1:33:59 am	2.0	2.0	0.0	0.0	0.0	0.0
23/8/2022	1:44:29 am	19.0	17.0	0.0	0.0	0.0	0.1
23/8/2022	1:54:59 am	7.0	5.0	0.0	0.0	0.0	0.1
23/8/2022	2:05:29 am	34.0	33.0	0.0	0.0	0.0	0.1
23/8/2022	2:15:59 am	21.0	19.0	0.0	0.0	0.0	0.1
23/8/2022	2:26:29 am	30.0	26.0	0.0	0.0	0.0	0.1
23/8/2022	2:36:59 am	32.0	30.0	0.0	0.0	0.0	0.0
23/8/2022	2:47:29 am	35.0	32.0	0.0	0.0	0.0	0.0
23/8/2022	2:57:59 am	32.0	28.0	0.0	0.0	0.0	0.1
23/8/2022	3:08:29 am	14.0	13.0	0.0	0.0	0.0	0.0
23/8/2022	3:18:59 am	4.0	4.0	0.0	0.0	0.0	0.0
23/8/2022	3:29:29 am	33.0	32.0	0.0	0.0	0.0	0.0
23/8/2022	3:39:59 am	28.0	27.0	0.0	0.0	0.0	0.1
23/8/2022	3:50:29 am	7.0	6.0	0.0	0.0	0.0	0.1
23/8/2022	4:00:59 am	18.0	16.0	0.0	0.0	0.0	0.0
23/8/2022	4:11:29 am	21.0	20.0	0.0	0.0	0.0	0.1
23/8/2022	4:21:59 am	15.0	12.0	0.0	0.0	0.0	0.0
23/8/2022	4:32:29 am	22.0	20.0	0.0	0.0	0.0	0.0
23/8/2022	4:42:59 am	20.0	18.0	0.0	0.0	0.0	0.0
23/8/2022	4:53:29 am	30.0	26.0	0.0	0.0	0.0	0.1
23/8/2022	5:03:59 am	25.0	23.0	0.0	0.0	0.0	0.0
23/8/2022	5:14:29 am	20.0	18.0	0.0	0.0	0.0	0.0
23/8/2022	5:24:59 am	14.0	14.0	0.0	0.0	0.0	0.0
23/8/2022	5:35:29 am	24.0	21.0	0.0	0.0	0.0	0.0
23/8/2022	5:45:59 am	17.0	16.0	0.0	0.0	0.0	0.1
23/8/2022	5:56:29 am	32.0	30.0	0.0	0.0	0.0	0.0
23/8/2022	6:06:59 am	34.0	31.0	0.0	0.0	0.0	0.0
23/8/2022	6:17:29 am	15.0	11.0	0.0	0.0	0.0	0.1
23/8/2022	6:27:59 am	10.0	8.0	0.0	0.0	0.0	0.1
23/8/2022	6:38:29 am	35.0	33.0	0.0	0.0	0.0	0.1
23/8/2022	6:48:59 am	32.0	30.0	0.0	0.0	0.0	0.0
23/8/2022	6:59:29 am	33.0	31.0	0.0	0.0	0.0	0.0
23/8/2022	7:09:59 am	19.0	16.0	0.0	0.0	0.0	0.0
23/8/2022	7:20:29 am	15.0	15.0	0.0	0.0	0.0	0.0

Air Quality Monitoring Data from Station A2
19 August to 26 August 2022

Equipment: Oceanus OC-1000

23/8/2022	7:30:59 am	7.0	6.0	0.0	0.0	0.0	0.1
23/8/2022	7:41:29 am	8.0	8.0	0.0	0.0	0.0	0.1
23/8/2022	7:51:59 am	17.0	15.0	0.0	0.0	0.0	0.0
23/8/2022	8:02:29 am	29.0	27.0	0.0	0.0	0.0	0.1
23/8/2022	8:12:59 am	3.0	3.0	0.0	0.0	0.0	0.0
23/8/2022	8:23:29 am	24.0	20.0	0.0	0.0	0.0	0.0
23/8/2022	8:33:59 am	35.0	33.0	0.0	0.0	0.0	0.0
23/8/2022	8:44:29 am	12.0	9.0	0.0	0.0	0.0	0.1
23/8/2022	8:54:59 am	6.0	4.0	0.0	0.0	0.0	0.1
23/8/2022	9:05:29 am	18.0	17.0	0.0	0.0	0.0	0.1
23/8/2022	9:15:59 am	33.0	32.0	0.0	0.0	0.0	0.0
23/8/2022	9:26:29 am	33.0	33.0	0.0	0.0	0.0	0.1
23/8/2022	9:36:59 am	11.0	12.0	0.0	0.0	0.0	0.1
23/8/2022	9:47:29 am	29.0	28.0	0.0	0.0	0.0	0.1
23/8/2022	9:57:59 am	34.0	32.0	0.0	0.0	0.0	0.0
23/8/2022	10:08:29 am	29.0	27.0	0.0	0.0	0.0	0.0
23/8/2022	10:18:59 am	24.0	23.0	0.0	0.0	0.0	0.1
23/8/2022	10:29:29 am	8.0	7.0	0.0	0.0	0.0	0.0
23/8/2022	10:39:59 am	34.0	31.0	0.0	0.0	0.0	0.1
23/8/2022	10:50:29 am	4.0	3.0	0.0	0.0	0.0	0.1
23/8/2022	11:00:59 am	35.0	34.0	0.0	0.0	0.0	0.0
23/8/2022	11:11:29 am	10.0	9.0	0.0	0.0	0.0	0.0
23/8/2022	11:21:59 am	16.0	15.0	0.0	0.0	0.0	0.0
23/8/2022	11:32:29 am	31.0	30.0	0.0	0.0	0.0	0.0
23/8/2022	11:42:59 am	14.0	13.0	0.0	0.0	0.0	0.0
23/8/2022	11:53:29 am	23.0	22.0	0.0	0.0	0.0	0.1
23/8/2022	12:03:59 pm	6.0	4.0	0.0	0.0	0.0	0.0
23/8/2022	12:14:29 pm	26.0	25.0	0.0	0.0	0.0	0.1
23/8/2022	12:24:59 pm	33.0	32.0	0.0	0.0	0.0	0.0
23/8/2022	12:35:29 pm	9.0	8.0	0.0	0.0	0.0	0.0
23/8/2022	12:45:59 pm	33.0	32.0	0.0	0.0	0.0	0.0
23/8/2022	12:56:29 pm	9.0	7.0	0.0	0.0	0.0	0.0
23/8/2022	1:06:59 pm	2.0	2.0	0.0	0.0	0.0	0.0
23/8/2022	1:17:29 pm	35.0	34.0	0.0	0.0	0.0	0.0
23/8/2022	1:27:59 pm	24.0	22.0	0.0	0.0	0.0	0.1
23/8/2022	1:38:29 pm	8.0	6.0	0.0	0.0	0.0	0.0
23/8/2022	1:48:59 pm	15.0	12.0	0.0	0.0	0.0	0.1
23/8/2022	1:59:29 pm	23.0	22.0	0.0	0.0	0.0	0.0
23/8/2022	2:09:59 pm	28.0	26.0	0.0	0.0	0.0	0.0
23/8/2022	2:20:29 pm	18.0	17.0	0.0	0.0	0.0	0.0
23/8/2022	2:30:59 pm	24.0	23.0	0.0	0.0	0.0	0.1
23/8/2022	2:41:29 pm	13.0	13.0	0.0	0.0	0.0	0.0
23/8/2022	2:51:59 pm	3.0	2.0	0.0	0.0	0.0	0.0
23/8/2022	3:02:29 pm	31.0	30.0	0.0	0.0	0.0	0.0
23/8/2022	3:12:59 pm	19.0	18.0	0.0	0.0	0.0	0.1
23/8/2022	3:23:29 pm	4.0	4.0	0.0	0.0	0.0	0.0
23/8/2022	3:33:59 pm	2.0	1.0	0.0	0.0	0.0	0.1
23/8/2022	3:44:29 pm	22.0	20.0	0.0	0.0	0.0	0.0

Air Quality Monitoring Data from Station A2
19 August to 26 August 2022

Equipment: Oceanus OC-1000

23/8/2022	3:54:59 pm	18.0	17.0	0.0	0.0	0.0	0.1
23/8/2022	4:05:29 pm	9.0	9.0	0.0	0.0	0.0	0.0
23/8/2022	4:15:59 pm	31.0	29.0	0.0	0.0	0.0	0.1
23/8/2022	4:26:29 pm	34.0	33.0	0.0	0.0	0.0	0.1
23/8/2022	4:36:59 pm	19.0	17.0	0.0	0.0	0.0	0.1
23/8/2022	4:47:29 pm	6.0	5.0	0.0	0.0	0.0	0.1
23/8/2022	4:57:59 pm	19.0	18.0	0.0	0.0	0.0	0.0
23/8/2022	5:08:29 pm	4.0	3.0	0.0	0.0	0.0	0.0
23/8/2022	5:18:59 pm	18.0	27.0	0.0	0.0	0.0	0.0
23/8/2022	5:29:29 pm	1.0	1.0	0.0	0.0	0.0	0.0
23/8/2022	5:39:59 pm	17.0	17.0	0.0	0.0	0.0	0.1
23/8/2022	5:50:29 pm	4.0	4.0	0.0	0.0	0.0	0.1
23/8/2022	6:00:59 pm	26.0	24.0	0.0	0.0	0.0	0.1
23/8/2022	6:11:29 pm	32.0	31.0	0.0	0.0	0.0	0.0
23/8/2022	6:21:59 pm	32.0	31.0	0.0	0.0	0.0	0.1
23/8/2022	6:32:29 pm	26.0	24.0	0.0	0.0	0.0	0.0
23/8/2022	6:42:59 pm	4.0	3.0	0.0	0.0	0.0	0.0
23/8/2022	6:53:29 pm	31.0	29.0	0.0	0.0	0.0	0.0
23/8/2022	7:03:59 pm	29.0	23.0	0.0	0.0	0.0	0.1
23/8/2022	7:14:29 pm	24.0	22.0	0.0	0.0	0.0	0.1
23/8/2022	7:24:59 pm	14.0	12.0	0.0	0.0	0.0	0.1
23/8/2022	7:35:29 pm	5.0	5.0	0.0	0.0	0.0	0.1
23/8/2022	7:45:59 pm	35.0	35.0	0.0	0.0	0.0	0.1
23/8/2022	7:56:29 pm	11.0	9.0	0.0	0.0	0.0	0.0
23/8/2022	8:06:59 pm	28.0	28.0	0.0	0.0	0.0	0.1
23/8/2022	8:17:29 pm	34.0	32.0	0.0	0.0	0.0	0.1
23/8/2022	8:27:59 pm	10.0	8.0	0.0	0.0	0.0	0.0
23/8/2022	8:38:29 pm	11.0	9.0	0.0	0.0	0.0	0.0
23/8/2022	8:48:59 pm	32.0	31.0	0.0	0.0	0.0	0.1
23/8/2022	8:59:29 pm	19.0	18.0	0.0	0.0	0.0	0.1
23/8/2022	9:09:59 pm	34.0	33.0	0.0	0.0	0.0	0.0
23/8/2022	9:20:29 pm	7.0	6.0	0.0	0.0	0.0	0.0
23/8/2022	9:30:59 pm	23.0	21.0	0.0	0.0	0.0	0.0
23/8/2022	9:41:29 pm	19.0	18.0	0.0	0.0	0.0	0.0
23/8/2022	9:51:59 pm	29.0	25.0	0.0	0.0	0.0	0.0
23/8/2022	10:02:29 pm	20.0	19.0	0.0	0.0	0.0	0.1
23/8/2022	10:12:59 pm	6.0	5.0	0.0	0.0	0.0	0.0
23/8/2022	10:23:29 pm	35.0	33.0	0.0	0.0	0.0	0.0
23/8/2022	10:33:59 pm	5.0	4.0	0.0	0.0	0.0	0.1
23/8/2022	10:44:29 pm	30.0	28.0	0.0	0.0	0.0	0.0
23/8/2022	10:54:59 pm	14.0	12.0	0.0	0.0	0.0	0.0
23/8/2022	11:05:29 pm	25.0	24.0	0.0	0.0	0.0	0.0
23/8/2022	11:15:59 pm	24.0	23.0	0.0	0.0	0.0	0.0
23/8/2022	11:26:29 pm	22.0	19.0	0.0	0.0	0.0	0.1
23/8/2022	11:36:59 pm	23.0	19.0	0.0	0.0	0.0	0.1
23/8/2022	11:47:29 pm	16.0	14.0	0.0	0.0	0.0	0.1
23/8/2022	11:57:59 pm	25.0	23.0	0.0	0.0	0.0	0.0
24/8/2022	12:08:29 am	10.0	9.0	0.0	0.0	0.0	0.1

Air Quality Monitoring Data from Station A2
19 August to 26 August 2022

Equipment: Oceanus OC-1000

24/8/2022	12:18:59 am	32.0	27.0	0.0	0.0	0.0	0.1
24/8/2022	12:29:29 am	21.0	18.0	0.0	0.0	0.0	0.0
24/8/2022	12:39:59 am	26.0	25.0	0.0	0.0	0.0	0.0
24/8/2022	12:50:29 am	12.0	10.0	0.0	0.0	0.0	0.0
24/8/2022	1:00:59 am	32.0	30.0	0.0	0.0	0.0	0.1
24/8/2022	1:11:29 am	32.0	30.0	0.0	0.0	0.0	0.0
24/8/2022	1:21:59 am	25.0	24.0	0.0	0.0	0.0	0.1
24/8/2022	1:32:29 am	12.0	10.0	0.0	0.0	0.0	0.0
24/8/2022	1:42:59 am	27.0	25.0	0.0	0.0	0.0	0.1
24/8/2022	1:53:29 am	5.0	5.0	0.0	0.0	0.0	0.0
24/8/2022	2:03:59 am	11.0	9.0	0.0	0.0	0.0	0.0
24/8/2022	2:14:29 am	24.0	23.0	0.0	0.0	0.0	0.1
24/8/2022	2:24:59 am	35.0	33.0	0.0	0.0	0.0	0.1
24/8/2022	2:35:29 am	13.0	12.0	0.0	0.0	0.0	0.0
24/8/2022	2:45:59 am	2.0	1.0	0.0	0.0	0.0	0.0
24/8/2022	2:56:29 am	27.0	25.0	0.0	0.0	0.0	0.0
24/8/2022	3:06:59 am	8.0	7.0	0.0	0.0	0.0	0.1
24/8/2022	3:17:29 am	19.0	16.0	0.0	0.0	0.0	0.1
24/8/2022	3:27:59 am	7.0	5.0	0.0	0.0	0.0	0.0
24/8/2022	3:38:29 am	29.0	24.0	0.0	0.0	0.0	0.0
24/8/2022	3:48:59 am	5.0	4.0	0.0	0.0	0.0	0.0
24/8/2022	3:59:29 am	33.0	30.0	0.0	0.0	0.0	0.1
24/8/2022	4:09:59 am	8.0	6.0	0.0	0.0	0.0	0.1
24/8/2022	4:20:29 am	1.0	1.0	0.0	0.0	0.0	0.1
24/8/2022	4:30:59 am	21.0	20.0	0.0	0.0	0.0	0.0
24/8/2022	4:41:29 am	15.0	14.0	0.0	0.0	0.0	0.1
24/8/2022	4:51:59 am	4.0	4.0	0.0	0.0	0.0	0.1
24/8/2022	5:02:29 am	31.0	29.0	0.0	0.0	0.0	0.0
24/8/2022	5:12:59 am	11.0	9.0	0.0	0.0	0.0	0.1
24/8/2022	5:23:29 am	25.0	25.0	0.0	0.0	0.0	0.1
24/8/2022	5:33:59 am	18.0	16.0	0.0	0.0	0.0	0.1
24/8/2022	5:44:29 am	9.0	7.0	0.0	0.0	0.0	0.1
24/8/2022	5:54:59 am	3.0	2.0	0.0	0.0	0.0	0.0
24/8/2022	6:05:29 am	18.0	14.0	0.0	0.0	0.0	0.1
24/8/2022	6:15:59 am	22.0	20.0	0.0	0.0	0.0	0.1
24/8/2022	6:26:29 am	9.0	8.0	0.0	0.0	0.0	0.0
24/8/2022	6:36:59 am	1.0	0.0	0.0	0.0	0.0	0.0
24/8/2022	6:47:29 am	7.0	6.0	0.0	0.0	0.0	0.1
24/8/2022	6:57:59 am	29.0	28.0	0.0	0.0	0.0	0.0
24/8/2022	7:08:29 am	14.0	13.0	0.0	0.0	0.0	0.0
24/8/2022	7:18:59 am	16.0	15.0	0.0	0.0	0.0	0.0
24/8/2022	7:29:29 am	29.0	26.0	0.0	0.0	0.0	0.0
24/8/2022	7:39:59 am	2.0	2.0	0.0	0.0	0.0	0.0
24/8/2022	7:50:29 am	23.0	22.0	0.0	0.0	0.0	0.0
24/8/2022	8:00:59 am	7.0	5.0	0.0	0.0	0.0	0.0
24/8/2022	8:11:29 am	34.0	29.0	0.0	0.0	0.0	0.0
24/8/2022	8:21:59 am	34.0	34.0	0.0	0.0	0.0	0.1
24/8/2022	8:32:29 am	30.0	28.0	0.0	0.0	0.0	0.1

Air Quality Monitoring Data from Station A2
19 August to 26 August 2022

Equipment: Oceanus OC-1000

24/8/2022	8:42:59 am	24.0	20.0	0.0	0.0	0.0	0.1
24/8/2022	8:53:29 am	35.0	32.0	0.0	0.0	0.0	0.0
24/8/2022	9:03:59 am	5.0	5.0	0.0	0.0	0.0	0.1
24/8/2022	9:14:29 am	18.0	17.0	0.0	0.0	0.0	0.0
24/8/2022	9:24:59 am	24.0	23.0	0.0	0.0	0.0	0.1
24/8/2022	9:35:29 am	30.0	10.0	0.0	0.0	0.0	0.0
24/8/2022	9:45:59 am	14.0	13.0	0.0	0.0	0.0	0.0
24/8/2022	9:56:29 am	12.0	12.0	0.0	0.0	0.0	0.1
24/8/2022	10:06:59 am	25.0	22.0	0.0	0.0	0.0	0.0
24/8/2022	10:17:29 am	3.0	3.0	0.0	0.0	0.0	0.0
24/8/2022	10:27:59 am	16.0	15.0	0.0	0.0	0.0	0.1
24/8/2022	10:38:29 am	20.0	18.0	0.0	0.0	0.0	0.0
24/8/2022	10:48:59 am	19.0	15.0	0.0	0.0	0.0	0.1
24/8/2022	10:59:29 am	12.0	11.0	0.0	0.0	0.0	0.1
24/8/2022	11:09:59 am	10.0	8.0	0.0	0.0	0.0	0.1
24/8/2022	11:20:29 am	6.0	5.0	0.0	0.0	0.0	0.0
24/8/2022	11:30:59 am	9.0	8.0	0.0	0.0	0.0	0.0
24/8/2022	11:41:29 am	7.0	5.0	0.0	0.0	0.0	0.1
24/8/2022	11:51:59 am	27.0	26.0	0.0	0.0	0.0	0.0
24/8/2022	12:02:29 pm	2.0	2.0	0.0	0.0	0.0	0.1
24/8/2022	12:12:59 pm	33.0	29.0	0.0	0.0	0.0	0.1
24/8/2022	12:23:29 pm	7.0	6.0	0.0	0.0	0.0	0.1
24/8/2022	12:33:59 pm	14.0	13.0	0.0	0.0	0.0	0.1
24/8/2022	12:44:29 pm	31.0	29.0	0.0	0.0	0.0	0.0
24/8/2022	12:54:59 pm	22.0	20.0	0.0	0.0	0.0	0.1
24/8/2022	1:05:29 pm	12.0	11.0	0.0	0.0	0.0	0.0
24/8/2022	1:15:59 pm	13.0	12.0	0.0	0.0	0.0	0.1
24/8/2022	1:26:29 pm	3.0	2.0	0.0	0.0	0.0	0.1
24/8/2022	1:36:59 pm	33.0	29.0	0.0	0.0	0.0	0.0
24/8/2022	1:47:29 pm	4.0	4.0	0.0	0.0	0.0	0.0
24/8/2022	1:57:59 pm	11.0	10.0	0.0	0.0	0.0	0.1
24/8/2022	2:08:29 pm	20.0	18.0	0.0	0.0	0.0	0.0
24/8/2022	2:18:59 pm	32.0	31.0	0.0	0.0	0.0	0.1
24/8/2022	2:29:29 pm	3.0	3.0	0.0	0.0	0.0	0.1
24/8/2022	2:39:59 pm	19.0	17.0	0.0	0.0	0.0	0.1
24/8/2022	2:50:29 pm	21.0	19.0	0.0	0.0	0.0	0.0
24/8/2022	3:00:59 pm	13.0	12.0	0.0	0.0	0.0	0.1
24/8/2022	3:11:29 pm	35.0	33.0	0.0	0.0	0.0	0.0
24/8/2022	3:21:59 pm	16.0	15.0	0.0	0.0	0.0	0.1
24/8/2022	3:32:29 pm	25.0	23.0	0.0	0.0	0.0	0.1
24/8/2022	3:42:59 pm	14.0	13.0	0.0	0.0	0.0	0.0
24/8/2022	3:53:29 pm	21.0	20.0	0.0	0.0	0.0	0.0
24/8/2022	4:03:59 pm	32.0	29.0	0.0	0.0	0.0	0.0
24/8/2022	4:14:29 pm	33.0	31.0	0.0	0.0	0.0	0.1
24/8/2022	4:24:59 pm	2.0	1.0	0.0	0.0	0.0	0.0
24/8/2022	4:35:29 pm	4.0	3.0	0.0	0.0	0.0	0.0
24/8/2022	4:45:59 pm	11.0	9.0	0.0	0.0	0.0	0.1
24/8/2022	4:56:29 pm	30.0	29.0	0.0	0.0	0.0	0.1

Air Quality Monitoring Data from Station A2
19 August to 26 August 2022

Equipment: Oceanus OC-1000

24/8/2022	5:06:59 pm	8.0	5.0	0.0	0.0	0.0	0.0
24/8/2022	5:17:29 pm	27.0	25.0	0.0	0.0	0.0	0.0
24/8/2022	5:27:59 pm	32.0	31.0	0.0	0.0	0.0	0.0
24/8/2022	5:38:29 pm	5.0	4.0	0.0	0.0	0.0	0.1
24/8/2022	5:48:59 pm	18.0	17.0	0.0	0.0	0.0	0.0
24/8/2022	5:59:29 pm	4.0	3.0	0.0	0.0	0.0	0.0
24/8/2022	6:09:59 pm	12.0	12.0	0.0	0.0	0.0	0.0
24/8/2022	6:20:29 pm	10.0	8.0	0.0	0.0	0.0	0.1
24/8/2022	6:30:59 pm	18.0	17.0	0.0	0.0	0.0	0.0
24/8/2022	6:41:29 pm	15.0	13.0	0.0	0.0	0.0	0.1
24/8/2022	6:51:59 pm	10.0	9.0	0.0	0.0	0.0	0.1
24/8/2022	7:02:29 pm	12.0	10.0	0.0	0.0	0.0	0.0
24/8/2022	7:12:59 pm	28.0	27.0	0.0	0.0	0.0	0.1
24/8/2022	7:23:29 pm	19.0	18.0	0.0	0.0	0.0	0.1
24/8/2022	7:33:59 pm	26.0	24.0	0.0	0.0	0.0	0.0
24/8/2022	7:44:29 pm	3.0	3.0	0.0	0.0	0.0	0.0
24/8/2022	7:54:59 pm	22.0	21.0	0.0	0.0	0.0	0.0
24/8/2022	8:05:29 pm	3.0	3.0	0.0	0.0	0.0	0.1
24/8/2022	8:15:59 pm	30.0	28.0	0.0	0.0	0.0	0.1
24/8/2022	8:26:29 pm	22.0	21.0	0.0	0.0	0.0	0.0
24/8/2022	8:36:59 pm	34.0	32.0	0.0	0.0	0.0	0.0
24/8/2022	8:47:29 pm	19.0	18.0	0.0	0.0	0.0	0.1
24/8/2022	8:57:59 pm	11.0	10.0	0.0	0.0	0.0	0.1
24/8/2022	9:08:29 pm	17.0	13.0	0.0	0.0	0.0	0.1
24/8/2022	9:18:59 pm	6.0	5.0	0.0	0.0	0.0	0.1
24/8/2022	9:29:29 pm	29.0	28.0	0.0	0.0	0.0	0.1
24/8/2022	9:39:59 pm	6.0	4.0	0.0	0.0	0.0	0.0
24/8/2022	9:50:29 pm	4.0	3.0	0.0	0.0	0.0	0.0
24/8/2022	10:00:59 pm	30.0	29.0	0.0	0.0	0.0	0.1
24/8/2022	10:11:29 pm	7.0	5.0	0.0	0.0	0.0	0.1
24/8/2022	10:21:59 pm	14.0	12.0	0.0	0.0	0.0	0.1
24/8/2022	10:32:29 pm	33.0	32.0	0.0	0.0	0.0	0.0
24/8/2022	10:42:59 pm	25.0	24.0	0.0	0.0	0.0	0.1
24/8/2022	10:53:29 pm	2.0	2.0	0.0	0.0	0.0	0.0
24/8/2022	11:03:59 pm	25.0	23.0	0.0	0.0	0.0	0.1
24/8/2022	11:14:29 pm	13.0	12.0	0.0	0.0	0.0	0.1
24/8/2022	11:24:59 pm	14.0	13.0	0.0	0.0	0.0	0.1
24/8/2022	11:35:29 pm	35.0	35.0	0.0	0.0	0.0	0.1
24/8/2022	11:45:59 pm	26.0	23.0	0.0	0.0	0.0	0.1
24/8/2022	11:56:29 pm	28.0	24.0	0.0	0.0	0.0	0.0
25/8/2022	12:06:59 am	10.0	8.0	0.0	0.0	0.0	0.1
25/8/2022	12:17:29 am	7.0	6.0	0.0	0.0	0.0	0.0
25/8/2022	12:27:59 am	8.0	8.0	0.0	0.0	0.0	0.1
25/8/2022	12:38:29 am	4.0	3.0	0.0	0.0	0.0	0.0
25/8/2022	12:48:59 am	22.0	19.0	0.0	0.0	0.0	0.1
25/8/2022	12:59:29 am	11.0	10.0	0.0	0.0	0.0	0.1
25/8/2022	1:09:59 am	29.0	28.0	0.0	0.0	0.0	0.0
25/8/2022	1:20:29 am	19.0	18.0	0.0	0.0	0.0	0.0

Air Quality Monitoring Data from Station A2
19 August to 26 August 2022

Equipment: Oceanus OC-1000

25/8/2022	1:30:59 am	9.0	7.0	0.0	0.0	0.0	0.1
25/8/2022	1:41:29 am	22.0	20.0	0.0	0.0	0.0	0.0
25/8/2022	1:51:59 am	17.0	15.0	0.0	0.0	0.0	0.0
25/8/2022	2:02:29 am	34.0	32.0	0.0	0.0	0.0	0.0
25/8/2022	2:12:59 am	8.0	7.0	0.0	0.0	0.0	0.0
25/8/2022	2:23:29 am	3.0	3.0	0.0	0.0	0.0	0.1
25/8/2022	2:33:59 am	25.0	24.0	0.0	0.0	0.0	0.0
25/8/2022	2:44:29 am	4.0	4.0	0.0	0.0	0.0	0.1
25/8/2022	2:54:59 am	31.0	30.0	0.0	0.0	0.0	0.0
25/8/2022	3:05:29 am	6.0	5.0	0.0	0.0	0.0	0.1
25/8/2022	3:15:59 am	26.0	24.0	0.0	0.0	0.0	0.1
25/8/2022	3:26:29 am	10.0	8.0	0.0	0.0	0.0	0.1
25/8/2022	3:36:59 am	8.0	8.0	0.0	0.0	0.0	0.0
25/8/2022	3:47:29 am	9.0	6.0	0.0	0.0	0.0	0.1
25/8/2022	3:57:59 am	33.0	32.0	0.0	0.0	0.0	0.1
25/8/2022	4:08:29 am	35.0	34.0	0.0	0.0	0.0	0.1
25/8/2022	4:18:59 am	7.0	7.0	0.0	0.0	0.0	0.1
25/8/2022	4:29:29 am	23.0	22.0	0.0	0.0	0.0	0.1
25/8/2022	4:39:59 am	23.0	21.0	0.0	0.0	0.0	0.0
25/8/2022	4:50:29 am	34.0	30.0	0.0	0.0	0.0	0.0
25/8/2022	5:00:59 am	6.0	5.0	0.0	0.0	0.0	0.0
25/8/2022	5:11:29 am	6.0	5.0	0.0	0.0	0.0	0.0
25/8/2022	5:21:59 am	4.0	3.0	0.0	0.0	0.0	0.0
25/8/2022	5:32:29 am	25.0	23.0	0.0	0.0	0.0	0.0
25/8/2022	5:42:59 am	5.0	4.0	0.0	0.0	0.0	0.0
25/8/2022	5:53:29 am	20.0	20.0	0.0	0.0	0.0	0.1
25/8/2022	6:03:59 am	2.0	2.0	0.0	0.0	0.0	0.0
25/8/2022	6:14:29 am	20.0	19.0	0.0	0.0	0.0	0.1
25/8/2022	6:24:59 am	23.0	21.0	0.0	0.0	0.0	0.0
25/8/2022	6:35:29 am	10.0	9.0	0.0	0.0	0.0	0.1
25/8/2022	6:45:59 am	4.0	3.0	0.0	0.0	0.0	0.1
25/8/2022	6:56:29 am	22.0	21.0	0.0	0.0	0.0	0.1
25/8/2022	7:06:59 am	29.0	25.0	0.0	0.0	0.0	0.1
25/8/2022	7:17:29 am	35.0	31.0	0.0	0.0	0.0	0.0
25/8/2022	7:27:59 am	25.0	23.0	0.0	0.0	0.0	0.0
25/8/2022	7:38:29 am	14.0	12.0	0.0	0.0	0.0	0.0
25/8/2022	7:48:59 am	8.0	7.0	0.0	0.0	0.0	0.1
25/8/2022	7:59:29 am	19.0	17.0	0.0	0.0	0.0	0.1
25/8/2022	8:09:59 am	21.0	10.0	0.0	0.0	0.0	0.1
25/8/2022	8:20:29 am	19.0	18.0	0.0	0.0	0.0	0.1
25/8/2022	8:30:59 am	23.0	31.0	0.0	0.0	0.0	0.1
25/8/2022	8:41:29 am	21.0	3.0	0.0	0.0	0.0	0.1
25/8/2022	8:51:59 am	21.0	17.0	0.0	0.0	0.0	0.1
25/8/2022	9:02:29 am	23.0	19.0	0.0	0.0	0.0	0.1
25/8/2022	9:12:59 am	24.0	12.0	0.0	0.0	0.0	0.1
25/8/2022	9:23:29 am	26.0	33.0	0.0	0.0	0.0	0.1
25/8/2022	9:33:59 am	24.0	15.0	0.0	0.0	0.0	0.1
25/8/2022	9:44:29 am	29.0	23.0	0.0	0.0	0.0	0.1

Air Quality Monitoring Data from Station A2
19 August to 26 August 2022

Equipment: Oceanus OC-1000

25/8/2022	9:54:59 am	28.0	13.0	0.0	0.0	0.0	0.1
25/8/2022	10:05:29 am	12.0	20.0	0.0	0.0	0.0	0.1
25/8/2022	10:15:59 am	27.0	29.0	0.0	0.0	0.0	0.1
25/8/2022	10:26:29 am	5.0	31.0	0.0	0.0	0.0	0.1
25/8/2022	10:36:59 am	11.0	1.0	0.0	0.0	0.0	0.1
25/8/2022	10:47:29 am	24.0	3.0	0.0	0.0	0.0	0.1
25/8/2022	10:57:59 am	35.0	9.0	0.0	0.0	0.0	0.0
25/8/2022	11:08:29 am	13.0	29.0	0.0	0.0	0.0	0.1
25/8/2022	11:18:59 am	2.0	5.0	0.0	0.0	0.0	0.0
25/8/2022	11:29:29 am	27.0	25.0	0.0	0.0	0.0	0.0
25/8/2022	11:39:59 am	8.0	31.0	0.0	0.0	0.0	0.1
25/8/2022	11:50:29 am	19.0	4.0	0.0	0.0	0.0	0.1
25/8/2022	12:00:59 pm	7.0	17.0	0.0	0.0	0.0	0.0
25/8/2022	12:11:29 pm	29.0	3.0	0.0	0.0	0.0	0.0
25/8/2022	12:21:59 pm	5.0	12.0	0.0	0.0	0.0	0.0
25/8/2022	12:32:29 pm	33.0	8.0	0.0	0.0	0.0	0.1
25/8/2022	12:42:59 pm	8.0	17.0	0.0	0.0	0.0	0.1
25/8/2022	12:53:29 pm	1.0	13.0	0.0	0.0	0.0	0.0
25/8/2022	1:03:59 pm	21.0	9.0	0.0	0.0	0.0	0.0
25/8/2022	1:14:29 pm	15.0	10.0	0.0	0.0	0.0	0.0
25/8/2022	1:24:59 pm	4.0	27.0	0.0	0.0	0.0	0.1
25/8/2022	1:35:29 pm	31.0	26.0	0.0	0.0	0.0	0.1
25/8/2022	1:45:59 pm	11.0	2.0	0.0	0.0	0.0	0.1
25/8/2022	1:56:29 pm	25.0	22.0	0.0	0.0	0.0	0.0
25/8/2022	2:06:59 pm	18.0	5.0	0.0	0.0	0.0	0.1
25/8/2022	2:17:29 pm	9.0	29.0	0.0	0.0	0.0	0.1
25/8/2022	2:27:59 pm	3.0	34.0	0.0	0.0	0.0	0.0
25/8/2022	2:38:29 pm	18.0	28.0	0.0	0.0	0.0	0.1
25/8/2022	2:48:59 pm	22.0	20.0	0.0	0.0	0.0	0.1
25/8/2022	2:59:29 pm	9.0	32.0	0.0	0.0	0.0	0.1
25/8/2022	3:09:59 pm	1.0	5.0	0.0	0.0	0.0	0.1
25/8/2022	3:20:29 pm	7.0	17.0	0.0	0.0	0.0	0.0
25/8/2022	3:30:59 pm	29.0	23.0	0.0	0.0	0.0	0.1
25/8/2022	3:41:29 pm	14.0	10.0	0.0	0.0	0.0	0.1
25/8/2022	3:51:59 pm	16.0	13.0	0.0	0.0	0.0	0.0
25/8/2022	4:02:29 pm	31.0	12.0	0.0	0.0	0.0	0.0
25/8/2022	4:12:59 pm	37.0	22.0	0.0	0.0	0.0	0.1
25/8/2022	4:23:29 pm	31.0	3.0	0.0	0.0	0.0	0.0
25/8/2022	4:33:59 pm	28.0	15.0	0.0	0.0	0.0	0.0
25/8/2022	4:44:29 pm	46.0	18.0	0.0	0.0	0.0	0.0
25/8/2022	4:54:59 pm	43.0	15.0	0.0	0.0	0.0	0.0
25/8/2022	5:05:29 pm	24.0	11.0	0.0	0.0	0.0	0.0
25/8/2022	5:15:59 pm	30.0	8.0	0.0	0.0	0.0	0.0
25/8/2022	5:26:29 pm	29.0	5.0	0.0	0.0	0.0	0.0
25/8/2022	5:36:59 pm	27.0	8.0	0.0	0.0	0.0	0.0
25/8/2022	5:47:29 pm	26.0	5.0	0.0	0.0	0.0	0.1
25/8/2022	5:57:59 pm	23.0	26.0	0.0	0.0	0.0	0.0
25/8/2022	6:08:29 pm	29.0	12.0	0.0	0.0	0.0	0.1

Air Quality Monitoring Data from Station A2
19 August to 26 August 2022

Equipment: Oceanus OC-1000

25/8/2022	6:18:59 pm	24.0	22.0	0.0	0.0	0.0	0.0
25/8/2022	6:29:29 pm	21.0	3.0	0.0	0.0	0.0	0.0
25/8/2022	6:39:59 pm	22.0	15.0	0.0	0.0	0.0	0.0
25/8/2022	6:50:29 pm	28.0	18.0	0.0	0.0	0.0	0.0
25/8/2022	7:00:59 pm	23.0	15.0	0.0	0.0	0.0	0.1
25/8/2022	7:11:29 pm	25.0	11.0	0.0	0.0	0.0	0.1
25/8/2022	7:21:59 pm	18.0	8.0	0.0	0.0	0.0	0.1
25/8/2022	7:32:29 pm	12.0	5.0	0.0	0.0	0.0	0.0
25/8/2022	7:42:59 pm	12.0	8.0	0.0	0.0	0.0	0.1
25/8/2022	7:53:29 pm	12.0	5.0	0.0	0.0	0.0	0.1
25/8/2022	8:03:59 pm	11.0	26.0	0.0	0.0	0.0	0.0
25/8/2022	8:14:29 pm	10.0	2.0	0.0	0.0	0.0	0.0
25/8/2022	8:24:59 pm	11.0	29.0	0.0	0.0	0.0	0.0
25/8/2022	8:35:29 pm	12.0	6.0	0.0	0.0	0.0	0.1
25/8/2022	8:45:59 pm	3.0	13.0	0.0	0.0	0.0	0.0
25/8/2022	8:56:29 pm	18.0	29.0	0.0	0.0	0.0	0.1
25/8/2022	9:06:59 pm	22.0	20.0	0.0	0.0	0.0	0.0
25/8/2022	9:17:29 pm	9.0	11.0	0.0	0.0	0.0	0.1
25/8/2022	9:27:59 pm	1.0	12.0	0.0	0.0	0.0	0.0
25/8/2022	9:38:29 pm	7.0	2.0	0.0	0.0	0.0	0.0
25/8/2022	9:48:59 pm	29.0	29.0	0.0	0.0	0.0	0.1
25/8/2022	9:59:29 pm	14.0	4.0	0.0	0.0	0.0	0.1
25/8/2022	10:09:59 pm	16.0	10.0	0.0	0.0	0.0	0.0
25/8/2022	10:20:29 pm	31.0	18.0	0.0	0.0	0.0	0.0
25/8/2022	10:30:59 pm	37.0	31.0	0.0	0.0	0.0	0.0
25/8/2022	10:41:29 pm	31.0	3.0	0.0	0.0	0.0	0.1
25/8/2022	10:51:59 pm	28.0	17.0	0.0	0.0	0.0	0.1
25/8/2022	11:02:29 pm	46.0	19.0	0.0	0.0	0.0	0.0
25/8/2022	11:12:59 pm	43.0	12.0	0.0	0.0	0.0	0.0
25/8/2022	11:23:29 pm	24.0	33.0	0.0	0.0	0.0	0.0
25/8/2022	11:33:59 pm	30.0	15.0	0.0	0.0	0.0	0.1
25/8/2022	11:44:29 pm	29.0	23.0	0.0	0.0	0.0	0.1
25/8/2022	11:54:59 pm	27.0	13.0	0.0	0.0	0.0	0.1
26/8/2022	12:05:29 am	26.0	20.0	0.0	0.0	0.0	0.0
26/8/2022	12:15:59 am	14.0	29.0	0.0	0.0	0.0	0.1
26/8/2022	12:26:29 am	16.0	31.0	0.0	0.0	0.0	0.1
26/8/2022	12:36:59 am	29.0	1.0	0.0	0.0	0.0	0.0
26/8/2022	12:47:29 am	2.0	3.0	0.0	0.0	0.0	0.1
26/8/2022	12:57:59 am	23.0	9.0	0.0	0.0	0.0	0.1
26/8/2022	1:08:29 am	7.0	29.0	0.0	0.0	0.0	0.1
26/8/2022	1:18:59 am	34.0	5.0	0.0	0.0	0.0	0.1
26/8/2022	1:29:29 am	34.0	25.0	0.0	0.0	0.0	0.0
26/8/2022	1:39:59 am	30.0	31.0	0.0	0.0	0.0	0.1
26/8/2022	1:50:29 am	24.0	4.0	0.0	0.0	0.0	0.1
26/8/2022	2:00:59 am	35.0	17.0	0.0	0.0	0.0	0.0
26/8/2022	2:11:29 am	5.0	3.0	0.0	0.0	0.0	0.0
26/8/2022	2:21:59 am	18.0	12.0	0.0	0.0	0.0	0.1
26/8/2022	2:32:29 am	24.0	8.0	0.0	0.0	0.0	0.0

Air Quality Monitoring Data from Station A2
19 August to 26 August 2022

Equipment: Oceanus OC-1000

26/8/2022	2:42:59 am	30.0	17.0	0.0	0.0	0.0	0.0
26/8/2022	2:53:29 am	14.0	13.0	0.0	0.0	0.0	0.0
26/8/2022	3:03:59 am	12.0	9.0	0.0	0.0	0.0	0.0
26/8/2022	3:14:29 am	25.0	10.0	0.0	0.0	0.0	0.0
26/8/2022	3:24:59 am	3.0	27.0	0.0	0.0	0.0	0.0
26/8/2022	3:35:29 am	16.0	18.0	0.0	0.0	0.0	0.0
26/8/2022	3:45:59 am	20.0	24.0	0.0	0.0	0.0	0.0
26/8/2022	3:56:29 am	19.0	3.0	0.0	0.0	0.0	0.1
26/8/2022	4:06:59 am	12.0	21.0	0.0	0.0	0.0	0.0
26/8/2022	4:17:29 am	10.0	3.0	0.0	0.0	0.0	0.1
26/8/2022	4:27:59 am	6.0	28.0	0.0	0.0	0.0	0.0
26/8/2022	4:38:29 am	9.0	21.0	0.0	0.0	0.0	0.1
26/8/2022	4:48:59 am	7.0	32.0	0.0	0.0	0.0	0.0
26/8/2022	4:59:29 am	27.0	18.0	0.0	0.0	0.0	0.0
26/8/2022	5:09:59 am	2.0	10.0	0.0	0.0	0.0	0.1
26/8/2022	5:20:29 am	33.0	13.0	0.0	0.0	0.0	0.1
26/8/2022	5:30:59 am	7.0	5.0	0.0	0.0	0.0	0.0
26/8/2022	5:41:29 am	14.0	28.0	0.0	0.0	0.0	0.0
26/8/2022	5:51:59 am	31.0	4.0	0.0	0.0	0.0	0.0
26/8/2022	6:02:29 am	22.0	3.0	0.0	0.0	0.0	0.1
26/8/2022	6:12:59 am	12.0	29.0	0.0	0.0	0.0	0.1
26/8/2022	6:23:29 am	13.0	5.0	0.0	0.0	0.0	0.0
26/8/2022	6:33:59 am	3.0	12.0	0.0	0.0	0.0	0.0
26/8/2022	6:44:29 am	33.0	32.0	0.0	0.0	0.0	0.0
26/8/2022	6:54:59 am	4.0	24.0	0.0	0.0	0.0	0.1
26/8/2022	7:05:29 am	11.0	2.0	0.0	0.0	0.0	0.1
26/8/2022	7:15:59 am	20.0	23.0	0.0	0.0	0.0	0.1
26/8/2022	7:26:29 am	32.0	12.0	0.0	0.0	0.0	0.0
26/8/2022	7:36:59 am	3.0	13.0	0.0	0.0	0.0	0.1
26/8/2022	7:47:29 am	19.0	35.0	0.0	0.0	0.0	0.1
26/8/2022	7:57:59 am	21.0	23.0	0.0	0.0	0.0	0.0
26/8/2022	8:08:29 am	13.0	24.0	0.0	0.0	0.0	0.1
26/8/2022	8:18:59 am	8.0	8.0	0.0	0.0	0.0	0.1
26/8/2022	8:29:29 am	1.0	6.0	0.0	0.0	0.0	0.1
26/8/2022	8:39:59 am	21.0	8.0	0.0	0.0	0.0	0.1
26/8/2022	8:50:29 am	15.0	3.0	0.0	0.0	0.0	0.0
26/8/2022	9:00:59 am	4.0	19.0	0.0	0.0	0.0	0.1
26/8/2022	9:11:29 am	31.0	10.0	0.0	0.0	0.0	0.1
26/8/2022	9:21:59 am	11.0	28.0	0.0	0.0	0.0	0.0
26/8/2022	9:32:29 am	25.0	18.0	0.0	0.0	0.0	0.0
26/8/2022	9:42:59 am	18.0	7.0	0.0	0.0	0.0	0.1
26/8/2022	9:53:29 am	9.0	20.0	0.0	0.0	0.0	0.0
26/8/2022	10:03:59 am	3.0	15.0	0.0	0.0	0.0	0.0
26/8/2022	10:14:29 am	18.0	32.0	0.0	0.0	0.0	0.0
26/8/2022	10:24:59 am	22.0	7.0	0.0	0.0	0.0	0.0
26/8/2022	10:35:29 am	9.0	3.0	0.0	0.0	0.0	0.0
26/8/2022	10:45:59 am	1.0	24.0	0.0	0.0	0.0	0.0
26/8/2022	10:56:29 am	7.0	4.0	0.0	0.0	0.0	0.0

Air Quality Monitoring Data from Station A2
19 August to 26 August 2022

Equipment: Oceanus OC-1000

26/8/2022	11:06:59 am	29.0	30.0	0.0	0.0	0.0	0.0
26/8/2022	11:17:29 am	14.0	5.0	0.0	0.0	0.0	0.1
26/8/2022	11:27:59 am	16.0	29.0	0.0	0.0	0.0	0.1
26/8/2022	11:38:29 am	29.0	5.0	0.0	0.0	0.0	0.1
26/8/2022	11:48:59 am	2.0	12.0	0.0	0.0	0.0	0.0
26/8/2022	11:59:29 am	23.0	32.0	0.0	0.0	0.0	0.1
26/8/2022	12:09:59 pm	7.0	24.0	0.0	0.0	0.0	0.0

Air Quality Monitoring Data from Station A3
5 August to 12 August 2022

Equipment: Oceanus OC-1000

Date	Time	PM10 (µg/m3)	PM2.5 (µg/m3)	CO (µg/m3)	O3 (µg/m3)	NO2 (µg/m3)	SO2(µg/m3)
5/8/2022	2:47:30 pm	6.0	6.0	0.0	0.0	0.0	0.2
5/8/2022	2:58:00 pm	7.0	5.0	0.0	0.0	0.0	0.2
5/8/2022	3:08:30 pm	7.0	5.0	0.0	0.0	0.0	0.2
5/8/2022	3:19:00 pm	8.0	7.0	0.0	0.0	0.0	0.2
5/8/2022	3:29:30 pm	5.0	5.0	0.0	0.0	0.0	0.2
5/8/2022	3:40:00 pm	6.0	6.0	0.0	0.0	0.0	0.2
5/8/2022	3:50:30 pm	5.0	5.0	0.0	0.0	0.0	0.2
5/8/2022	4:01:00 pm	6.0	5.0	0.0	0.0	0.0	0.2
5/8/2022	4:11:30 pm	6.0	5.0	0.0	0.0	0.0	0.1
5/8/2022	4:22:00 pm	6.0	6.0	0.0	0.0	0.0	0.1
5/8/2022	4:32:30 pm	11.0	10.0	0.0	0.0	0.0	0.1
5/8/2022	4:43:00 pm	8.0	6.0	0.0	0.0	0.0	0.1
5/8/2022	4:53:30 pm	7.0	5.0	0.0	0.0	0.0	0.1
5/8/2022	5:04:00 pm	5.0	5.0	0.0	0.0	0.0	0.1
5/8/2022	5:14:30 pm	7.0	6.0	0.0	0.0	0.0	0.1
5/8/2022	5:25:00 pm	6.0	5.0	0.0	0.0	0.0	0.1
5/8/2022	5:35:30 pm	7.0	6.0	0.0	0.0	0.0	0.1
5/8/2022	5:46:00 pm	9.0	6.0	0.0	0.0	0.0	0.1
5/8/2022	5:56:30 pm	8.0	6.0	0.0	0.0	0.0	0.1
5/8/2022	6:07:00 pm	8.0	7.0	0.0	0.0	0.0	0.1
5/8/2022	6:17:30 pm	8.0	6.0	0.0	0.0	0.0	0.1
5/8/2022	6:28:00 pm	8.0	8.0	0.0	0.0	0.0	0.0
5/8/2022	6:38:30 pm	8.0	8.0	0.0	0.0	0.0	0.1
5/8/2022	6:49:00 pm	7.0	7.0	0.0	0.0	0.0	0.0
5/8/2022	6:59:30 pm	11.0	8.0	0.0	0.0	0.0	0.0
5/8/2022	7:10:00 pm	8.0	8.0	0.0	0.0	0.0	0.0
5/8/2022	7:20:30 pm	8.0	7.0	0.0	0.0	0.0	0.0
5/8/2022	7:31:00 pm	8.0	7.0	0.0	0.0	0.0	0.0
5/8/2022	7:41:30 pm	8.0	5.0	0.0	0.0	0.0	0.0
5/8/2022	7:52:00 pm	8.0	7.0	0.0	0.0	0.0	0.0
5/8/2022	8:02:30 pm	8.0	7.0	0.0	0.0	0.0	0.0
5/8/2022	8:13:00 pm	8.0	7.0	0.0	0.0	0.0	0.0
5/8/2022	8:23:30 pm	7.0	6.0	0.0	0.0	0.0	0.0
5/8/2022	8:34:00 pm	9.0	9.0	0.0	0.0	0.0	0.0
5/8/2022	8:44:30 pm	8.0	5.0	0.0	0.0	0.0	0.0
5/8/2022	8:55:00 pm	8.0	7.0	0.0	0.0	0.0	0.0
5/8/2022	9:05:30 pm	6.0	6.0	0.0	0.0	0.0	0.0
5/8/2022	9:16:00 pm	7.0	6.0	0.0	0.0	0.0	0.0
5/8/2022	9:26:30 pm	8.0	7.0	0.0	0.0	0.0	0.0
5/8/2022	9:37:00 pm	8.0	8.0	0.0	0.0	0.0	0.0
5/8/2022	9:47:30 pm	9.0	8.0	0.0	0.0	0.0	0.0
5/8/2022	9:57:59 pm	9.0	8.0	0.0	0.0	0.0	0.0
5/8/2022	10:08:30 pm	10.0	10.0	0.0	0.0	0.0	0.0
5/8/2022	10:18:59 pm	7.0	7.0	0.0	0.0	0.0	0.0
5/8/2022	10:29:30 pm	11.0	11.0	0.0	0.0	0.0	0.0
5/8/2022	10:40:00 pm	10.0	10.0	0.0	0.0	0.0	0.0
5/8/2022	10:50:30 pm	9.0	8.0	0.0	0.0	0.0	0.0

Air Quality Monitoring Data from Station A3
5 August to 12 August 2022

Equipment: Oceanus OC-1000

5/8/2022	11:00:59 pm	12.0	12.0	0.0	0.0	0.0	0.0
5/8/2022	11:11:29 pm	13.0	11.0	0.0	0.0	0.0	0.0
5/8/2022	11:21:59 pm	12.0	12.0	0.0	0.0	0.0	0.0
5/8/2022	11:32:29 pm	8.0	8.0	0.0	0.0	0.0	0.0
5/8/2022	11:42:59 pm	13.0	12.0	0.0	0.0	0.0	0.0
5/8/2022	11:53:29 pm	19.0	17.0	0.0	0.0	0.0	0.0
6/8/2022	12:03:59 am	15.0	13.0	0.0	0.0	0.0	0.0
6/8/2022	12:14:29 am	13.0	10.0	0.0	0.0	0.0	0.0
6/8/2022	12:24:59 am	14.0	12.0	0.0	0.0	0.0	0.0
6/8/2022	12:35:29 am	11.0	10.0	0.0	0.0	0.0	0.0
6/8/2022	12:45:59 am	13.0	13.0	0.0	0.0	0.0	0.0
6/8/2022	12:56:29 am	15.0	14.0	0.0	0.0	0.0	0.0
6/8/2022	1:06:59 am	12.0	10.0	0.0	0.0	0.0	0.0
6/8/2022	1:17:29 am	12.0	10.0	0.0	0.0	0.0	0.0
6/8/2022	1:27:59 am	11.0	11.0	0.0	0.0	0.0	0.0
6/8/2022	1:38:29 am	12.0	11.0	0.0	0.0	0.0	0.0
6/8/2022	1:48:59 am	10.0	9.0	0.0	0.0	0.0	0.0
6/8/2022	1:59:29 am	10.0	10.0	0.0	0.0	0.0	0.0
6/8/2022	2:09:59 am	10.0	10.0	0.0	0.0	0.0	0.0
6/8/2022	2:20:29 am	15.0	11.0	0.0	0.0	0.0	0.0
6/8/2022	2:30:59 am	10.0	10.0	0.0	0.0	0.0	0.0
6/8/2022	2:41:29 am	10.0	9.0	0.0	0.0	0.0	0.0
6/8/2022	2:51:59 am	12.0	10.0	0.0	0.0	0.0	0.0
6/8/2022	3:02:29 am	13.0	13.0	0.0	0.0	0.0	0.0
6/8/2022	3:12:59 am	14.0	13.0	0.0	0.0	0.0	0.0
6/8/2022	3:23:29 am	11.0	11.0	0.0	0.0	0.0	0.0
6/8/2022	3:33:59 am	14.0	13.0	0.0	0.0	0.0	0.0
6/8/2022	3:44:29 am	18.0	15.0	0.0	0.0	0.0	0.0
6/8/2022	3:54:59 am	26.0	25.0	0.0	0.0	0.0	0.0
6/8/2022	4:05:29 am	23.0	23.0	0.0	0.0	0.0	0.0
6/8/2022	4:15:59 am	18.0	16.0	0.0	0.0	0.0	0.0
6/8/2022	4:26:29 am	21.0	18.0	0.0	0.0	0.0	0.0
6/8/2022	4:36:59 am	16.0	15.0	0.0	0.0	0.0	0.0
6/8/2022	4:47:29 am	17.0	16.0	0.0	0.0	0.0	0.0
6/8/2022	4:57:59 am	14.0	13.0	0.0	0.0	0.0	0.0
6/8/2022	5:08:29 am	11.0	11.0	0.0	0.0	0.0	0.0
6/8/2022	5:18:59 am	8.0	8.0	0.0	0.0	0.0	0.0
6/8/2022	5:29:29 am	7.0	7.0	0.0	0.0	0.0	0.0
6/8/2022	5:39:59 am	7.0	7.0	0.0	0.0	0.0	0.1
6/8/2022	5:50:29 am	7.0	7.0	0.0	0.0	0.0	0.1
6/8/2022	6:00:59 am	7.0	7.0	0.0	0.0	0.0	0.1
6/8/2022	6:11:29 am	9.0	8.0	0.0	0.0	0.0	0.1
6/8/2022	6:21:59 am	9.0	9.0	0.0	0.0	0.0	0.1
6/8/2022	6:32:29 am	13.0	9.0	0.0	0.0	0.0	0.1
6/8/2022	6:42:59 am	10.0	8.0	0.0	0.0	0.0	0.2
6/8/2022	6:53:29 am	8.0	7.0	0.0	0.0	0.0	0.2
6/8/2022	7:03:59 am	7.0	6.0	0.0	0.0	0.0	0.3
6/8/2022	7:14:29 am	13.0	9.0	0.0	0.0	0.0	0.3

Air Quality Monitoring Data from Station A3
5 August to 12 August 2022

Equipment: Oceanus OC-1000

6/8/2022	7:24:59 am	12.0	10.0	0.0	0.0	0.0	0.3
6/8/2022	7:35:29 am	9.0	9.0	0.0	0.0	0.0	0.4
6/8/2022	7:45:59 am	10.0	10.0	0.0	0.0	0.0	0.4
6/8/2022	7:56:29 am	10.0	9.0	0.0	0.0	0.0	0.5
6/8/2022	8:06:59 am	8.0	8.0	0.0	0.0	0.0	0.5
6/8/2022	8:17:29 am	10.0	9.0	0.0	0.0	0.0	0.4
6/8/2022	8:27:59 am	6.0	5.0	0.0	0.0	0.0	0.4
6/8/2022	8:38:29 am	9.0	9.0	0.0	0.0	0.0	0.5
6/8/2022	8:48:59 am	7.0	7.0	0.0	0.0	0.0	0.5
6/8/2022	8:59:29 am	8.0	7.0	0.0	0.0	0.0	0.5
6/8/2022	9:09:59 am	6.0	5.0	0.0	0.0	0.0	0.5
6/8/2022	9:20:29 am	6.0	5.0	0.0	0.0	0.0	0.5
6/8/2022	9:30:59 am	7.0	6.0	0.0	0.0	0.0	0.5
6/8/2022	9:41:29 am	8.0	7.0	0.0	0.0	0.0	0.5
6/8/2022	9:51:59 am	9.0	9.0	0.0	0.0	0.0	0.5
6/8/2022	10:02:29 am	8.0	8.0	0.0	0.0	0.0	0.5
6/8/2022	10:12:59 am	10.0	10.0	0.0	0.0	0.0	0.4
6/8/2022	10:23:29 am	9.0	8.0	0.0	0.0	0.0	0.4
6/8/2022	10:33:59 am	10.0	9.0	0.0	0.0	0.0	0.4
6/8/2022	10:44:29 am	6.0	5.0	0.0	0.0	0.0	0.4
6/8/2022	10:54:59 am	2.0	1.0	0.0	0.0	0.0	0.4
6/8/2022	11:05:29 am	1.0	0.0	0.0	0.0	0.0	0.3
6/8/2022	11:15:59 am	2.0	1.0	0.0	0.0	0.0	0.2
6/8/2022	11:26:29 am	1.0	0.0	0.0	0.0	0.0	0.2
6/8/2022	11:36:59 am	1.0	1.0	0.0	0.0	0.0	0.2
6/8/2022	11:47:29 am	0.0	0.0	0.0	0.0	0.0	0.1
6/8/2022	11:57:59 am	1.0	1.0	0.0	0.0	0.0	0.1
6/8/2022	12:08:29 pm	2.0	1.0	0.0	0.0	0.0	0.1
6/8/2022	12:18:59 pm	2.0	1.0	0.0	0.0	0.0	0.1
6/8/2022	12:29:29 pm	3.0	2.0	0.0	0.0	0.0	0.1
6/8/2022	12:39:59 pm	2.0	2.0	0.0	0.0	0.0	0.1
6/8/2022	12:50:29 pm	3.0	3.0	0.0	0.0	0.0	0.1
6/8/2022	1:00:59 pm	2.0	1.0	0.0	0.0	0.0	0.1
6/8/2022	1:11:29 pm	2.0	2.0	0.0	0.0	0.0	0.0
6/8/2022	1:21:59 pm	2.0	2.0	0.0	0.0	0.0	0.0
6/8/2022	1:32:29 pm	3.0	3.0	0.0	0.0	0.0	0.0
6/8/2022	1:42:59 pm	3.0	3.0	0.0	0.0	0.0	0.0
6/8/2022	1:53:29 pm	5.0	3.0	0.0	0.0	0.0	0.0
6/8/2022	2:03:59 pm	7.0	5.0	0.0	0.0	0.0	0.0
6/8/2022	2:14:29 pm	6.0	6.0	0.0	0.0	0.0	0.0
6/8/2022	2:24:59 pm	6.0	5.0	0.0	0.0	0.0	0.0
6/8/2022	2:35:29 pm	6.0	6.0	0.0	0.0	0.0	0.0
6/8/2022	2:45:59 pm	7.0	6.0	0.0	0.0	0.0	0.0
6/8/2022	2:56:29 pm	7.0	6.0	0.0	0.0	0.0	0.0
6/8/2022	3:06:59 pm	5.0	5.0	0.0	0.0	0.0	0.1
6/8/2022	3:17:29 pm	7.0	5.0	0.0	0.0	0.0	0.0
6/8/2022	3:27:59 pm	5.0	4.0	0.0	0.0	0.0	0.0
6/8/2022	3:38:29 pm	6.0	5.0	0.0	0.0	0.0	0.0

Air Quality Monitoring Data from Station A3
5 August to 12 August 2022

Equipment: Oceanus OC-1000

6/8/2022	3:48:59 pm	10.0	7.0	0.0	0.0	0.0	0.0
6/8/2022	3:59:29 pm	8.0	6.0	0.0	0.0	0.0	0.0
6/8/2022	4:09:59 pm	9.0	8.0	0.0	0.0	0.0	0.0
6/8/2022	4:20:29 pm	7.0	7.0	0.0	0.0	0.0	0.0
6/8/2022	4:30:59 pm	11.0	10.0	0.0	0.0	0.0	0.0
6/8/2022	4:41:29 pm	10.0	9.0	0.0	0.0	0.0	0.0
6/8/2022	4:51:59 pm	8.0	7.0	0.0	0.0	0.0	0.0
6/8/2022	5:02:29 pm	13.0	12.0	0.0	0.0	0.0	0.0
6/8/2022	5:12:59 pm	21.0	18.0	0.0	0.0	0.0	0.0
6/8/2022	5:23:29 pm	17.0	14.0	0.0	0.0	0.0	0.0
6/8/2022	5:33:59 pm	17.0	15.0	0.0	0.0	0.0	0.0
6/8/2022	5:44:29 pm	15.0	14.0	0.0	0.0	0.0	0.0
6/8/2022	5:54:59 pm	15.0	13.0	0.0	0.0	0.0	0.0
6/8/2022	6:05:29 pm	14.0	14.0	0.0	0.0	0.0	0.0
6/8/2022	6:15:59 pm	15.0	14.0	0.0	0.0	0.0	0.0
6/8/2022	6:26:29 pm	21.0	20.0	0.0	0.0	0.0	0.0
6/8/2022	6:36:59 pm	18.0	15.0	0.0	0.0	0.0	0.0
6/8/2022	6:47:29 pm	17.0	16.0	0.0	0.0	0.0	0.0
6/8/2022	6:57:59 pm	15.0	14.0	0.0	0.0	0.0	0.0
6/8/2022	7:08:29 pm	16.0	14.0	0.0	0.0	0.0	0.0
6/8/2022	7:18:59 pm	13.0	13.0	0.0	0.0	0.0	0.0
6/8/2022	7:29:29 pm	14.0	13.0	0.0	0.0	0.0	0.0
6/8/2022	7:39:59 pm	17.0	15.0	0.0	0.0	0.0	0.0
6/8/2022	7:50:29 pm	14.0	12.0	0.0	0.0	0.0	0.0
6/8/2022	8:00:59 pm	14.0	13.0	0.0	0.0	0.0	0.0
6/8/2022	8:11:29 pm	18.0	16.0	0.0	0.0	0.0	0.0
6/8/2022	8:21:59 pm	14.0	13.0	0.0	0.0	0.0	0.0
6/8/2022	8:32:29 pm	12.0	12.0	0.0	0.0	0.0	0.0
6/8/2022	8:42:59 pm	18.0	16.0	0.0	0.0	0.0	0.0
6/8/2022	8:53:29 pm	13.0	12.0	0.0	0.0	0.0	0.0
6/8/2022	9:03:59 pm	8.0	8.0	0.0	0.0	0.0	0.0
6/8/2022	9:14:29 pm	16.0	13.0	0.0	0.0	0.0	0.0
6/8/2022	9:24:59 pm	13.0	11.0	0.0	0.0	0.0	0.0
6/8/2022	9:35:29 pm	14.0	12.0	0.0	0.0	0.0	0.0
6/8/2022	9:45:59 pm	11.0	10.0	0.0	0.0	0.0	0.0
6/8/2022	9:56:29 pm	17.0	16.0	0.0	0.0	0.0	0.0
6/8/2022	10:06:59 pm	15.0	12.0	0.0	0.0	0.0	0.0
6/8/2022	10:17:29 pm	12.0	10.0	0.0	0.0	0.0	0.0
6/8/2022	10:27:59 pm	16.0	14.0	0.0	0.0	0.0	0.0
6/8/2022	10:38:29 pm	12.0	12.0	0.0	0.0	0.0	0.0
6/8/2022	10:48:59 pm	17.0	16.0	0.0	0.0	0.0	0.0
6/8/2022	10:59:29 pm	15.0	14.0	0.0	0.0	0.0	0.0
6/8/2022	11:09:59 pm	15.0	13.0	0.0	0.0	0.0	0.0
6/8/2022	11:20:29 pm	16.0	14.0	0.0	0.0	0.0	0.0
6/8/2022	11:30:59 pm	22.0	19.0	0.0	0.0	0.0	0.0
6/8/2022	11:41:29 pm	14.0	14.0	0.0	0.0	0.0	0.0
6/8/2022	11:51:59 pm	13.0	13.0	0.0	0.0	0.0	0.0
6/8/2022	12:02:29 am	13.0	12.0	0.0	0.0	0.0	0.0

Air Quality Monitoring Data from Station A3
5 August to 12 August 2022

Equipment: Oceanus OC-1000

6/8/2022	12:12:59 am	17.0	15.0	0.0	0.0	0.0	0.0
6/8/2022	12:23:29 am	17.0	16.0	0.0	0.0	0.0	0.0
6/8/2022	12:33:59 am	17.0	15.0	0.0	0.0	0.0	0.0
6/8/2022	12:44:29 am	16.0	15.0	0.0	0.0	0.0	0.0
6/8/2022	12:54:59 am	15.0	14.0	0.0	0.0	0.0	0.0
6/8/2022	1:05:29 am	20.0	18.0	0.0	0.0	0.0	0.0
7/8/2022	1:15:59 am	22.0	21.0	0.0	0.0	0.0	0.0
7/8/2022	1:26:29 am	17.0	17.0	0.0	0.0	0.0	0.0
7/8/2022	1:36:59 am	15.0	13.0	0.0	0.0	0.0	0.0
7/8/2022	1:47:29 am	19.0	17.0	0.0	0.0	0.0	0.0
7/8/2022	1:57:59 am	16.0	15.0	0.0	0.0	0.0	0.0
7/8/2022	2:08:29 am	19.0	18.0	0.0	0.0	0.0	0.0
7/8/2022	2:18:59 am	15.0	15.0	0.0	0.0	0.0	0.0
7/8/2022	2:29:29 am	20.0	18.0	0.0	0.0	0.0	0.0
7/8/2022	2:39:59 am	12.0	12.0	0.0	0.0	0.0	0.0
7/8/2022	2:50:29 am	15.0	14.0	0.0	0.0	0.0	0.0
7/8/2022	3:00:59 am	16.0	15.0	0.0	0.0	0.0	0.0
7/8/2022	3:11:29 am	16.0	16.0	0.0	0.0	0.0	0.0
7/8/2022	3:21:59 am	20.0	19.0	0.0	0.0	0.0	0.0
7/8/2022	3:32:29 am	12.0	12.0	0.0	0.0	0.0	0.0
7/8/2022	3:42:59 am	15.0	15.0	0.0	0.0	0.0	0.0
7/8/2022	3:53:29 am	16.0	16.0	0.0	0.0	0.0	0.0
7/8/2022	4:03:59 am	25.0	23.0	0.0	0.0	0.0	0.0
7/8/2022	4:14:29 am	18.0	17.0	0.0	0.0	0.0	0.0
7/8/2022	4:24:59 am	21.0	19.0	0.0	0.0	0.0	0.0
7/8/2022	4:35:29 am	23.0	21.0	0.0	0.0	0.0	0.0
7/8/2022	4:45:59 am	21.0	21.0	0.0	0.0	0.0	0.0
7/8/2022	4:56:29 am	19.0	18.0	0.0	0.0	0.0	0.0
7/8/2022	5:06:59 am	17.0	16.0	0.0	0.0	0.0	0.0
7/8/2022	5:17:29 am	12.0	11.0	0.0	0.0	0.0	0.0
7/8/2022	5:27:59 am	12.0	11.0	0.0	0.0	0.0	0.0
7/8/2022	5:38:29 am	11.0	10.0	0.0	0.0	0.0	0.0
7/8/2022	5:48:59 am	13.0	12.0	0.0	0.0	0.0	0.0
7/8/2022	5:59:29 am	14.0	14.0	0.0	0.0	0.0	0.0
7/8/2022	6:09:59 am	11.0	10.0	0.0	0.0	0.0	0.1
7/8/2022	6:20:29 am	11.0	10.0	0.0	0.0	0.0	0.1
7/8/2022	6:30:59 am	9.0	9.0	0.0	0.0	0.0	0.1
7/8/2022	6:41:29 am	8.0	8.0	0.0	0.0	0.0	0.0
7/8/2022	6:51:59 am	9.0	8.0	0.0	0.0	0.0	0.1
7/8/2022	7:02:29 am	9.0	8.0	0.0	0.0	0.0	0.1
7/8/2022	7:12:59 am	8.0	7.0	0.0	0.0	0.0	0.1
7/8/2022	7:23:29 am	10.0	10.0	0.0	0.0	0.0	0.2
7/8/2022	7:33:59 am	12.0	10.0	0.0	0.0	0.0	0.2
7/8/2022	7:44:29 am	13.0	13.0	0.0	0.0	0.0	0.2
7/8/2022	7:54:59 am	12.0	11.0	0.0	0.0	0.0	0.3
7/8/2022	8:05:29 am	12.0	11.0	0.0	0.0	0.0	0.3
7/8/2022	8:15:59 am	13.0	12.0	0.0	0.0	0.0	0.2
7/8/2022	8:26:29 am	13.0	12.0	0.0	0.0	0.0	0.2

Air Quality Monitoring Data from Station A3
5 August to 12 August 2022

Equipment: Oceanus OC-1000

7/8/2022	8:36:59 am	13.0	11.0	0.0	0.0	0.0	0.2
7/8/2022	8:47:29 am	13.0	12.0	0.0	0.0	0.0	0.2
7/8/2022	8:57:59 am	14.0	13.0	0.0	0.0	0.0	0.2
7/8/2022	9:08:29 am	12.0	11.0	0.0	0.0	0.0	0.2
7/8/2022	9:18:59 am	15.0	13.0	0.0	0.0	0.0	0.2
7/8/2022	9:29:29 am	12.0	11.0	0.0	0.0	0.0	0.2
7/8/2022	9:39:59 am	14.0	13.0	0.0	0.0	0.0	0.1
7/8/2022	9:50:29 am	12.0	12.0	0.0	0.0	0.0	0.1
7/8/2022	10:00:59 am	10.0	10.0	0.0	0.0	0.0	0.1
7/8/2022	10:11:29 am	11.0	11.0	0.0	0.0	0.0	0.1
7/8/2022	10:21:59 am	11.0	11.0	0.0	0.0	0.0	0.1
7/8/2022	10:32:29 am	12.0	11.0	0.0	0.0	0.0	0.2
7/8/2022	10:42:59 am	11.0	10.0	0.0	0.0	0.0	0.1
7/8/2022	10:53:29 am	11.0	10.0	0.0	0.0	0.0	0.2
7/8/2022	11:03:59 am	13.0	13.0	0.0	0.0	0.0	0.1
7/8/2022	11:14:29 am	13.0	12.0	0.0	0.0	0.0	0.1
7/8/2022	11:24:59 am	11.0	10.0	0.0	0.0	0.0	0.1
7/8/2022	11:35:29 am	10.0	10.0	0.0	0.0	0.0	0.1
7/8/2022	11:45:59 am	10.0	8.0	0.0	0.0	0.0	0.2
7/8/2022	11:56:29 am	9.0	8.0	0.0	0.0	0.0	0.2
7/8/2022	12:06:59 pm	8.0	8.0	0.0	0.0	0.0	0.1
7/8/2022	12:17:29 pm	7.0	7.0	0.0	0.0	0.0	0.1
7/8/2022	12:27:59 pm	11.0	8.0	0.0	0.0	0.0	0.1
7/8/2022	12:38:29 pm	10.0	9.0	0.0	0.0	0.0	0.1
7/8/2022	12:48:59 pm	9.0	8.0	0.0	0.0	0.0	0.1
7/8/2022	12:59:29 pm	9.0	9.0	0.0	0.0	0.0	0.1
7/8/2022	1:09:59 pm	11.0	10.0	0.0	0.0	0.0	0.2
7/8/2022	1:20:29 pm	8.0	8.0	0.0	0.0	0.0	0.2
7/8/2022	1:30:59 pm	9.0	9.0	0.0	0.0	0.0	0.2
7/8/2022	1:41:29 pm	9.0	8.0	0.0	0.0	0.0	0.2
7/8/2022	1:51:59 pm	8.0	7.0	0.0	0.0	0.0	0.2
7/8/2022	2:02:29 pm	9.0	8.0	0.0	0.0	0.0	0.2
7/8/2022	2:12:59 pm	7.0	7.0	0.0	0.0	0.0	0.2
7/8/2022	2:23:29 pm	10.0	8.0	0.0	0.0	0.0	0.2
7/8/2022	2:33:59 pm	9.0	6.0	0.0	0.0	0.0	0.2
7/8/2022	2:44:29 pm	7.0	6.0	0.0	0.0	0.0	0.2
7/8/2022	2:54:59 pm	5.0	5.0	0.0	0.0	0.0	0.1
7/8/2022	3:05:29 pm	8.0	8.0	0.0	0.0	0.0	0.1
7/8/2022	3:15:59 pm	8.0	7.0	0.0	0.0	0.0	0.1
7/8/2022	3:26:29 pm	7.0	6.0	0.0	0.0	0.0	0.1
7/8/2022	3:36:59 pm	11.0	8.0	0.0	0.0	0.0	0.1
7/8/2022	3:47:29 pm	7.0	7.0	0.0	0.0	0.0	0.1
7/8/2022	3:57:59 pm	6.0	6.0	0.0	0.0	0.0	0.1
7/8/2022	4:08:29 pm	6.0	6.0	0.0	0.0	0.0	0.1
7/8/2022	4:18:59 pm	9.0	8.0	0.0	0.0	0.0	0.1
7/8/2022	4:29:29 pm	10.0	10.0	0.0	0.0	0.0	0.1
7/8/2022	4:39:59 pm	12.0	10.0	0.0	0.0	0.0	0.1
7/8/2022	4:50:29 pm	9.0	9.0	0.0	0.0	0.0	0.1

Air Quality Monitoring Data from Station A3
5 August to 12 August 2022

Equipment: Oceanus OC-1000

7/8/2022	5:00:59 pm	11.0	10.0	0.0	0.0	0.0	0.1
7/8/2022	5:11:29 pm	8.0	8.0	0.0	0.0	0.0	0.1
7/8/2022	5:21:59 pm	11.0	10.0	0.0	0.0	0.0	0.1
7/8/2022	5:32:29 pm	11.0	9.0	0.0	0.0	0.0	0.0
7/8/2022	5:42:59 pm	7.0	7.0	0.0	0.0	0.0	0.0
7/8/2022	5:53:29 pm	10.0	9.0	0.0	0.0	0.0	0.0
7/8/2022	6:03:59 pm	11.0	9.0	0.0	0.0	0.0	0.0
7/8/2022	6:14:29 pm	9.0	9.0	0.0	0.0	0.0	0.0
7/8/2022	6:24:59 pm	14.0	12.0	0.0	0.0	0.0	0.0
7/8/2022	6:35:29 pm	10.0	9.0	0.0	0.0	0.0	0.0
7/8/2022	6:45:59 pm	9.0	8.0	0.0	0.0	0.0	0.0
7/8/2022	6:56:29 pm	10.0	10.0	0.0	0.0	0.0	0.0
7/8/2022	7:06:59 pm	8.0	8.0	0.0	0.0	0.0	0.0
7/8/2022	7:17:29 pm	9.0	8.0	0.0	0.0	0.0	0.0
7/8/2022	7:27:59 pm	13.0	10.0	0.0	0.0	0.0	0.0
7/8/2022	7:38:29 pm	12.0	10.0	0.0	0.0	0.0	0.0
7/8/2022	7:48:59 pm	13.0	10.0	0.0	0.0	0.0	0.0
7/8/2022	7:59:29 pm	10.0	10.0	0.0	0.0	0.0	0.0
7/8/2022	8:09:59 pm	9.0	9.0	0.0	0.0	0.0	0.0
7/8/2022	8:20:29 pm	10.0	7.0	0.0	0.0	0.0	0.0
7/8/2022	8:30:59 pm	8.0	8.0	0.0	0.0	0.0	0.0
7/8/2022	8:41:29 pm	9.0	8.0	0.0	0.0	0.0	0.0
7/8/2022	8:51:59 pm	7.0	7.0	0.0	0.0	0.0	0.0
7/8/2022	9:02:29 pm	9.0	7.0	0.0	0.0	0.0	0.0
7/8/2022	9:12:59 pm	11.0	8.0	0.0	0.0	0.0	0.0
7/8/2022	9:23:29 pm	9.0	8.0	0.0	0.0	0.0	0.0
7/8/2022	9:33:59 pm	7.0	6.0	0.0	0.0	0.0	0.0
7/8/2022	9:44:29 pm	8.0	8.0	0.0	0.0	0.0	0.0
7/8/2022	9:54:59 pm	8.0	8.0	0.0	0.0	0.0	0.0
7/8/2022	10:05:29 pm	8.0	6.0	0.0	0.0	0.0	0.0
7/8/2022	10:15:59 pm	7.0	5.0	0.0	0.0	0.0	0.0
7/8/2022	10:26:29 pm	8.0	7.0	0.0	0.0	0.0	0.0
7/8/2022	10:36:59 pm	8.0	6.0	0.0	0.0	0.0	0.0
7/8/2022	10:47:29 pm	6.0	6.0	0.0	0.0	0.0	0.0
7/8/2022	10:57:59 pm	10.0	8.0	0.0	0.0	0.0	0.0
7/8/2022	11:08:29 pm	8.0	7.0	0.0	0.0	0.0	0.0
7/8/2022	11:18:59 pm	7.0	6.0	0.0	0.0	0.0	0.0
7/8/2022	11:29:29 pm	8.0	7.0	0.0	0.0	0.0	0.0
7/8/2022	11:39:59 pm	7.0	6.0	0.0	0.0	0.0	0.0
7/8/2022	11:50:29 pm	8.0	7.0	0.0	0.0	0.0	0.0
7/8/2022	12:00:59 am	6.0	6.0	0.0	0.0	0.0	0.0
7/8/2022	12:11:29 am	7.0	6.0	0.0	0.0	0.0	0.0
7/8/2022	12:21:59 am	8.0	8.0	0.0	0.0	0.0	0.0
7/8/2022	12:32:29 am	7.0	7.0	0.0	0.0	0.0	0.0
7/8/2022	12:42:59 am	9.0	8.0	0.0	0.0	0.0	0.0
7/8/2022	12:53:29 am	7.0	7.0	0.0	0.0	0.0	0.0
7/8/2022	1:03:59 am	9.0	9.0	0.0	0.0	0.0	0.0
7/8/2022	1:14:29 am	8.0	7.0	0.0	0.0	0.0	0.0

Air Quality Monitoring Data from Station A3
5 August to 12 August 2022

Equipment: Oceanus OC-1000

7/8/2022	1:24:59 am	7.0	7.0	0.0	0.0	0.0	0.0
7/8/2022	1:35:29 am	9.0	8.0	0.0	0.0	0.0	0.0
7/8/2022	1:45:59 am	7.0	7.0	0.0	0.0	0.0	0.0
7/8/2022	1:56:29 am	9.0	9.0	0.0	0.0	0.0	0.0
7/8/2022	2:06:59 am	8.0	7.0	0.0	0.0	0.0	0.0
7/8/2022	2:17:29 am	7.0	7.0	0.0	0.0	0.0	0.0
8/8/2022	2:27:59 am	6.0	6.0	0.0	0.0	0.0	0.0
8/8/2022	2:38:29 am	7.0	6.0	0.0	0.0	0.0	0.0
8/8/2022	2:48:59 am	5.0	5.0	0.0	0.0	0.0	0.0
8/8/2022	2:59:29 am	7.0	7.0	0.0	0.0	0.0	0.0
8/8/2022	3:09:59 am	6.0	6.0	0.0	0.0	0.0	0.0
8/8/2022	3:20:29 am	6.0	5.0	0.0	0.0	0.0	0.0
8/8/2022	3:30:59 am	7.0	6.0	0.0	0.0	0.0	0.0
8/8/2022	3:41:29 am	6.0	6.0	0.0	0.0	0.0	0.0
8/8/2022	3:51:59 am	9.0	9.0	0.0	0.0	0.0	0.0
8/8/2022	4:02:29 am	8.0	7.0	0.0	0.0	0.0	0.0
8/8/2022	4:12:59 am	9.0	9.0	0.0	0.0	0.0	0.0
8/8/2022	4:23:29 am	13.0	11.0	0.0	0.0	0.0	0.0
8/8/2022	4:33:59 am	13.0	11.0	0.0	0.0	0.0	0.0
8/8/2022	4:44:29 am	13.0	11.0	0.0	0.0	0.0	0.0
8/8/2022	4:54:59 am	15.0	13.0	0.0	0.0	0.0	0.0
8/8/2022	5:05:29 am	13.0	12.0	0.0	0.0	0.0	0.0
8/8/2022	5:15:59 am	12.0	12.0	0.0	0.0	0.0	0.0
8/8/2022	5:26:29 am	12.0	12.0	0.0	0.0	0.0	0.0
8/8/2022	5:36:59 am	11.0	9.0	0.0	0.0	0.0	0.0
8/8/2022	5:47:29 am	11.0	10.0	0.0	0.0	0.0	0.0
8/8/2022	5:57:59 am	11.0	10.0	0.0	0.0	0.0	0.1
8/8/2022	6:08:29 am	12.0	11.0	0.0	0.0	0.0	0.1
8/8/2022	6:18:59 am	13.0	11.0	0.0	0.0	0.0	0.1
8/8/2022	6:29:29 am	10.0	9.0	0.0	0.0	0.0	0.1
8/8/2022	6:39:59 am	10.0	10.0	0.0	0.0	0.0	0.2
8/8/2022	6:50:29 am	8.0	8.0	0.0	0.0	0.0	0.2
8/8/2022	7:00:59 am	10.0	10.0	0.0	0.0	0.0	0.2
8/8/2022	7:11:29 am	9.0	9.0	0.0	0.0	0.0	0.2
8/8/2022	7:21:59 am	10.0	9.0	0.0	0.0	0.0	0.2
8/8/2022	7:32:29 am	11.0	9.0	0.0	0.0	0.0	0.2
8/8/2022	7:42:59 am	11.0	9.0	0.0	0.0	0.0	0.2
8/8/2022	7:53:29 am	11.0	10.0	0.0	0.0	0.0	0.3
8/8/2022	8:03:59 am	10.0	10.0	0.0	0.0	0.0	0.3
8/8/2022	8:14:29 am	8.0	8.0	0.0	0.0	0.0	0.3
8/8/2022	8:24:59 am	12.0	10.0	0.0	0.0	0.0	0.3
8/8/2022	8:35:29 am	12.0	12.0	0.0	0.0	0.0	0.3
8/8/2022	8:45:59 am	8.0	9.0	0.0	0.0	0.0	0.3
8/8/2022	8:56:29 am	9.0	8.0	0.0	0.0	0.0	0.3
8/8/2022	9:06:59 am	7.0	6.0	0.0	0.0	0.0	0.3
8/8/2022	9:17:29 am	5.0	5.0	0.0	0.0	0.0	0.2
8/8/2022	9:27:59 am	5.0	5.0	0.0	0.0	0.0	0.2
8/8/2022	9:38:29 am	6.0	6.0	0.0	0.0	0.0	0.3

Air Quality Monitoring Data from Station A3
5 August to 12 August 2022

Equipment: Oceanus OC-1000

8/8/2022	9:48:59 am	8.0	7.0	0.0	0.0	0.0	0.3
8/8/2022	9:59:29 am	5.0	5.0	0.0	0.0	0.0	0.3
8/8/2022	10:09:59 am	7.0	7.0	0.0	0.0	0.0	0.3
8/8/2022	10:20:29 am	7.0	6.0	0.0	0.0	0.0	0.4
8/8/2022	10:30:59 am	5.0	5.0	0.0	0.0	0.0	0.4
8/8/2022	10:41:29 am	5.0	4.0	0.0	0.0	0.0	0.4
8/8/2022	10:51:59 am	5.0	4.0	0.0	0.0	0.0	0.4
8/8/2022	11:02:29 am	4.0	4.0	0.0	0.0	0.0	0.3
8/8/2022	11:12:59 am	5.0	3.0	0.0	0.0	0.0	0.3
8/8/2022	11:23:29 am	6.0	6.0	0.0	0.0	0.0	0.3
8/8/2022	11:33:59 am	7.0	6.0	0.0	0.0	0.0	0.3
8/8/2022	11:44:29 am	7.0	5.0	0.0	0.0	0.0	0.3
8/8/2022	11:54:59 am	6.0	6.0	0.0	0.0	0.0	0.2
8/8/2022	12:05:29 pm	9.0	8.0	0.0	0.0	0.0	0.2
8/8/2022	12:15:59 pm	7.0	7.0	0.0	0.0	0.0	0.2
8/8/2022	12:26:29 pm	6.0	6.0	0.0	0.0	0.0	0.2
8/8/2022	12:36:59 pm	10.0	9.0	0.0	0.0	0.0	0.2
8/8/2022	12:47:29 pm	8.0	7.0	0.0	0.0	0.0	0.2
8/8/2022	12:57:59 pm	8.0	7.0	0.0	0.0	0.0	0.2
8/8/2022	1:08:29 pm	13.0	13.0	0.0	0.0	0.0	0.1
8/8/2022	1:18:59 pm	12.0	9.0	0.0	0.0	0.0	0.1
8/8/2022	1:29:29 pm	8.0	8.0	0.0	0.0	0.0	0.1
8/8/2022	1:39:59 pm	9.0	8.0	0.0	0.0	0.0	0.1
8/8/2022	1:50:29 pm	9.0	9.0	0.0	0.0	0.0	0.1
8/8/2022	2:00:59 pm	8.0	7.0	0.0	0.0	0.0	0.1
8/8/2022	2:11:29 pm	10.0	9.0	0.0	0.0	0.0	0.1
8/8/2022	2:21:59 pm	11.0	10.0	0.0	0.0	0.0	0.1
8/8/2022	2:32:29 pm	17.0	13.0	0.0	0.0	0.0	0.1
8/8/2022	2:42:59 pm	20.0	18.0	0.0	0.0	0.0	0.1
8/8/2022	2:53:29 pm	21.0	18.0	0.0	0.0	0.0	0.1
8/8/2022	3:03:59 pm	17.0	16.0	0.0	0.0	0.0	0.0
8/8/2022	3:14:29 pm	18.0	16.0	0.0	0.0	0.0	0.0
8/8/2022	3:24:59 pm	16.0	16.0	0.0	0.0	0.0	0.1
8/8/2022	3:35:29 pm	16.0	15.0	0.0	0.0	0.0	0.0
8/8/2022	3:45:59 pm	17.0	15.0	0.0	0.0	0.0	0.0
8/8/2022	3:56:29 pm	19.0	16.0	0.0	0.0	0.0	0.0
8/8/2022	4:06:59 pm	16.0	15.0	0.0	0.0	0.0	0.0
8/8/2022	4:17:29 pm	16.0	14.0	0.0	0.0	0.0	0.0
8/8/2022	4:27:59 pm	20.0	19.0	0.0	0.0	0.0	0.0
8/8/2022	4:38:29 pm	18.0	16.0	0.0	0.0	0.0	0.0
8/8/2022	4:48:59 pm	19.0	18.0	0.0	0.0	0.0	0.0
8/8/2022	4:59:29 pm	15.0	14.0	0.0	0.0	0.0	0.0
8/8/2022	5:09:59 pm	21.0	19.0	0.0	0.0	0.0	0.0
8/8/2022	5:20:29 pm	20.0	20.0	0.0	0.0	0.0	0.0
8/8/2022	5:30:59 pm	21.0	19.0	0.0	0.0	0.0	0.0
8/8/2022	5:41:29 pm	21.0	20.0	0.0	0.0	0.0	0.0
8/8/2022	5:51:59 pm	24.0	22.0	0.0	0.0	0.0	0.0
8/8/2022	6:02:29 pm	25.0	24.0	0.0	0.0	0.0	0.0

Air Quality Monitoring Data from Station A3
5 August to 12 August 2022

Equipment: Oceanus OC-1000

8/8/2022	6:12:59 pm	28.0	27.0	0.0	0.0	0.0	0.0
8/8/2022	6:23:29 pm	24.0	24.0	0.0	0.0	0.0	0.0
8/8/2022	6:33:59 pm	32.0	29.0	0.0	0.0	0.0	0.0
8/8/2022	6:44:29 pm	30.0	28.0	0.0	0.0	0.0	0.0
8/8/2022	6:54:59 pm	27.0	25.0	0.0	0.0	0.0	0.0
8/8/2022	7:05:29 pm	34.0	31.0	0.0	0.0	0.0	0.0
8/8/2022	7:15:59 pm	24.0	24.0	0.0	0.0	0.0	0.0
8/8/2022	7:26:29 pm	24.0	22.0	0.0	0.0	0.0	0.0
8/8/2022	7:36:59 pm	29.0	28.0	0.0	0.0	0.0	0.0
8/8/2022	7:47:29 pm	30.0	28.0	0.0	0.0	0.0	0.0
8/8/2022	7:57:59 pm	21.0	20.0	0.0	0.0	0.0	0.0
8/8/2022	8:08:29 pm	22.0	21.0	0.0	0.0	0.0	0.0
8/8/2022	8:18:59 pm	27.0	26.0	0.0	0.0	0.0	0.0
8/8/2022	8:29:29 pm	25.0	23.0	0.0	0.0	0.0	0.0
8/8/2022	8:39:59 pm	23.0	23.0	0.0	0.0	0.0	0.0
8/8/2022	8:50:29 pm	20.0	19.0	0.0	0.0	0.0	0.0
8/8/2022	9:00:59 pm	20.0	18.0	0.0	0.0	0.0	0.0
8/8/2022	9:11:29 pm	25.0	22.0	0.0	0.0	0.0	0.0
8/8/2022	9:21:59 pm	20.0	18.0	0.0	0.0	0.0	0.0
8/8/2022	9:32:29 pm	19.0	19.0	0.0	0.0	0.0	0.0
8/8/2022	9:42:59 pm	16.0	15.0	0.0	0.0	0.0	0.0
8/8/2022	9:53:29 pm	20.0	18.0	0.0	0.0	0.0	0.0
8/8/2022	10:03:59 pm	20.0	19.0	0.0	0.0	0.0	0.0
8/8/2022	10:14:29 pm	17.0	17.0	0.0	0.0	0.0	0.0
8/8/2022	10:24:59 pm	13.0	13.0	0.0	0.0	0.0	0.0
8/8/2022	10:35:29 pm	22.0	19.0	0.0	0.0	0.0	0.0
8/8/2022	10:45:59 pm	19.0	19.0	0.0	0.0	0.0	0.0
8/8/2022	10:56:29 pm	19.0	18.0	0.0	0.0	0.0	0.0
8/8/2022	11:06:59 pm	19.0	15.0	0.0	0.0	0.0	0.0
8/8/2022	11:17:29 pm	8.0	8.0	0.0	0.0	0.0	0.0
8/8/2022	11:27:59 pm	20.0	18.0	0.0	0.0	0.0	0.0
8/8/2022	11:38:29 pm	30.0	28.0	0.0	0.0	0.0	0.0
8/8/2022	11:48:59 pm	19.0	16.0	0.0	0.0	0.0	0.0
8/8/2022	11:59:29 pm	17.0	16.0	0.0	0.0	0.0	0.0
8/8/2022	12:09:59 am	30.0	28.0	0.0	0.0	0.0	0.0
8/8/2022	12:20:29 am	5.0	3.0	0.0	0.0	0.0	0.0
8/8/2022	12:30:59 am	9.0	9.0	0.0	0.0	0.0	0.0
8/8/2022	12:41:29 am	13.0	13.0	0.0	0.0	0.0	0.0
8/8/2022	12:51:59 am	13.0	13.0	0.0	0.0	0.0	0.0
8/8/2022	1:02:29 am	8.0	5.0	0.0	0.0	0.0	0.0
8/8/2022	1:12:59 am	19.0	16.0	0.0	0.0	0.0	0.0
8/8/2022	1:23:29 am	30.0	26.0	0.0	0.0	0.0	0.0
8/8/2022	1:33:59 am	27.0	24.0	0.0	0.0	0.0	0.0
8/8/2022	1:44:29 am	23.0	19.0	0.0	0.0	0.0	0.0
8/8/2022	1:54:59 am	5.0	3.0	0.0	0.0	0.0	0.0
8/8/2022	2:05:29 am	20.0	17.0	0.0	0.0	0.0	0.0
8/8/2022	2:15:59 am	16.0	14.0	0.0	0.0	0.0	0.0
8/8/2022	2:26:29 am	15.0	11.0	0.0	0.0	0.0	0.0

Air Quality Monitoring Data from Station A3
5 August to 12 August 2022

Equipment: Oceanus OC-1000

8/8/2022	2:36:59 am	2.0	0.0	0.0	0.0	0.0	0.0
8/8/2022	2:47:29 am	9.0	5.0	0.0	0.0	0.0	0.0
8/8/2022	2:57:59 am	4.0	4.0	0.0	0.0	0.0	0.0
8/8/2022	3:08:29 am	20.0	18.0	0.0	0.0	0.0	0.0
8/8/2022	3:18:59 am	5.0	5.0	0.0	0.0	0.0	0.0
8/8/2022	3:29:29 am	7.0	7.0	0.0	0.0	0.0	0.0
9/8/2022	3:39:59 am	31.0	27.0	0.0	0.0	0.0	0.0
9/8/2022	3:50:29 am	25.0	22.0	0.0	0.0	0.0	0.0
9/8/2022	4:00:59 am	27.0	24.0	0.0	0.0	0.0	0.0
9/8/2022	4:11:29 am	7.0	5.0	0.0	0.0	0.0	0.0
9/8/2022	4:21:59 am	5.0	5.0	0.0	0.0	0.0	0.0
9/8/2022	4:32:29 am	24.0	23.0	0.0	0.0	0.0	0.0
9/8/2022	4:42:59 am	4.0	4.0	0.0	0.0	0.0	0.0
9/8/2022	4:53:29 am	14.0	11.0	0.0	0.0	0.0	0.0
9/8/2022	5:03:59 am	24.0	24.0	0.0	0.0	0.0	0.0
9/8/2022	5:14:29 am	10.0	10.0	0.0	0.0	0.0	0.0
9/8/2022	5:24:59 am	6.0	5.0	0.0	0.0	0.0	0.0
9/8/2022	5:35:29 am	26.0	23.0	0.0	0.0	0.0	0.0
9/8/2022	5:45:59 am	30.0	29.0	0.0	0.0	0.0	0.0
9/8/2022	5:56:29 am	19.0	14.0	0.0	0.0	0.0	0.2
9/8/2022	6:06:59 am	29.0	26.0	0.0	0.0	0.0	0.1
9/8/2022	6:17:29 am	27.0	24.0	0.0	0.0	0.0	0.1
9/8/2022	6:27:59 am	19.0	15.0	0.0	0.0	0.0	0.2
9/8/2022	6:38:29 am	5.0	5.0	0.0	0.0	0.0	0.1
9/8/2022	6:48:59 am	12.0	10.0	0.0	0.0	0.0	0.1
9/8/2022	6:59:29 am	22.0	19.0	0.0	0.0	0.0	0.1
9/8/2022	7:09:59 am	30.0	29.0	0.0	0.0	0.0	0.1
9/8/2022	7:20:29 am	9.0	6.0	0.0	0.0	0.0	0.1
9/8/2022	7:30:59 am	19.0	15.0	0.0	0.0	0.0	0.2
9/8/2022	7:41:29 am	29.0	27.0	0.0	0.0	0.0	0.2
9/8/2022	7:51:59 am	3.0	2.0	0.0	0.0	0.0	0.0
9/8/2022	8:02:29 am	0.0	0.0	0.0	0.0	0.0	0.2
9/8/2022	8:12:59 am	15.0	12.0	0.0	0.0	0.0	0.1
9/8/2022	8:23:29 am	29.0	27.0	0.0	0.0	0.0	0.2
9/8/2022	8:33:59 am	17.0	14.0	0.0	0.0	0.0	0.2
9/8/2022	8:44:29 am	26.0	23.0	0.0	0.0	0.0	0.1
9/8/2022	8:54:59 am	6.0	6.0	0.0	0.0	0.0	0.0
9/8/2022	9:05:29 am	25.0	25.0	0.0	0.0	0.0	0.0
9/8/2022	9:15:59 am	3.0	2.0	0.0	0.0	0.0	0.1
9/8/2022	9:26:29 am	3.0	1.0	0.0	0.0	0.0	0.2
9/8/2022	9:36:59 am	29.0	23.0	0.0	0.0	0.0	0.0
9/8/2022	9:47:29 am	3.0	3.0	0.0	0.0	0.0	0.1
9/8/2022	9:57:59 am	17.0	15.0	0.0	0.0	0.0	0.1
9/8/2022	10:08:29 am	21.0	17.0	0.0	0.0	0.0	0.1
9/8/2022	10:18:59 am	4.0	3.0	0.0	0.0	0.0	0.0
9/8/2022	10:29:29 am	4.0	3.0	0.0	0.0	0.0	0.1
9/8/2022	10:39:59 am	7.0	6.0	0.0	0.0	0.0	0.0
9/8/2022	10:50:29 am	22.0	18.0	0.0	0.0	0.0	0.1

Air Quality Monitoring Data from Station A3
5 August to 12 August 2022

Equipment: Oceanus OC-1000

9/8/2022	11:00:59 am	29.0	26.0	0.0	0.0	0.0	0.0
9/8/2022	11:11:29 am	27.0	24.0	0.0	0.0	0.0	0.2
9/8/2022	11:21:59 am	14.0	12.0	0.0	0.0	0.0	0.1
9/8/2022	11:32:29 am	29.0	25.0	0.0	0.0	0.0	0.2
9/8/2022	11:42:59 am	16.0	14.0	0.0	0.0	0.0	0.1
9/8/2022	11:53:29 am	13.0	10.0	0.0	0.0	0.0	0.0
9/8/2022	12:03:59 pm	26.0	23.0	0.0	0.0	0.0	0.0
9/8/2022	12:14:29 pm	7.0	5.0	0.0	0.0	0.0	0.1
9/8/2022	12:24:59 pm	22.0	18.0	0.0	0.0	0.0	0.1
9/8/2022	12:35:29 pm	26.0	24.0	0.0	0.0	0.0	0.0
9/8/2022	12:45:59 pm	20.0	14.0	0.0	0.0	0.0	0.1
9/8/2022	12:56:29 pm	1.0	0.0	0.0	0.0	0.0	0.0
9/8/2022	1:06:59 pm	6.0	4.0	0.0	0.0	0.0	0.2
9/8/2022	1:17:29 pm	1.0	0.0	0.0	0.0	0.0	0.2
9/8/2022	1:27:59 pm	2.0	2.0	0.0	0.0	0.0	0.1
9/8/2022	1:38:29 pm	2.0	1.0	0.0	0.0	0.0	0.1
9/8/2022	1:48:59 pm	13.0	11.0	0.0	0.0	0.0	0.0
9/8/2022	1:59:29 pm	22.0	19.0	0.0	0.0	0.0	0.1
9/8/2022	2:09:59 pm	27.0	25.0	0.0	0.0	0.0	0.2
9/8/2022	2:20:29 pm	0.0	0.0	0.0	0.0	0.0	0.1
9/8/2022	2:30:59 pm	2.0	1.0	0.0	0.0	0.0	0.1
9/8/2022	2:41:29 pm	4.0	2.0	0.0	0.0	0.0	0.0
9/8/2022	2:51:59 pm	29.0	25.0	0.0	0.0	0.0	0.1
9/8/2022	3:02:29 pm	2.0	2.0	0.0	0.0	0.0	0.0
9/8/2022	3:12:59 pm	19.0	12.0	0.0	0.0	0.0	0.1
9/8/2022	3:23:29 pm	1.0	1.0	0.0	0.0	0.0	0.0
9/8/2022	3:33:59 pm	9.0	4.0	0.0	0.0	0.0	0.1
9/8/2022	3:44:29 pm	26.0	23.0	0.0	0.0	0.0	0.1
9/8/2022	3:54:59 pm	14.0	12.0	0.0	0.0	0.0	0.1
9/8/2022	4:05:29 pm	20.0	19.0	0.0	0.0	0.0	0.1
9/8/2022	4:15:59 pm	21.0	21.0	0.0	0.0	0.0	0.1
9/8/2022	4:26:29 pm	21.0	19.0	0.0	0.0	0.0	0.2
9/8/2022	4:36:59 pm	22.0	18.0	0.0	0.0	0.0	0.0
9/8/2022	4:47:29 pm	12.0	11.0	0.0	0.0	0.0	0.2
9/8/2022	4:57:59 pm	7.0	5.0	0.0	0.0	0.0	0.1
9/8/2022	5:08:29 pm	21.0	17.0	0.0	0.0	0.0	0.0
9/8/2022	5:18:59 pm	22.0	19.0	0.0	0.0	0.0	0.1
9/8/2022	5:29:29 pm	5.0	4.0	0.0	0.0	0.0	0.0
9/8/2022	5:39:59 pm	24.0	18.0	0.0	0.0	0.0	0.0
9/8/2022	5:50:29 pm	23.0	21.0	0.0	0.0	0.0	0.0
9/8/2022	6:00:59 pm	1.0	1.0	0.0	0.0	0.0	0.0
9/8/2022	6:11:29 pm	30.0	29.0	0.0	0.0	0.0	0.0
9/8/2022	6:21:59 pm	24.0	21.0	0.0	0.0	0.0	0.1
9/8/2022	6:32:29 pm	7.0	5.0	0.0	0.0	0.0	0.2
9/8/2022	6:42:59 pm	10.0	5.0	0.0	0.0	0.0	0.0
9/8/2022	6:53:29 pm	15.0	12.0	0.0	0.0	0.0	0.2
9/8/2022	7:03:59 pm	10.0	7.0	0.0	0.0	0.0	0.1
9/8/2022	7:14:29 pm	20.0	18.0	0.0	0.0	0.0	0.1

Air Quality Monitoring Data from Station A3
5 August to 12 August 2022

Equipment: Oceanus OC-1000

9/8/2022	7:24:59 pm	19.0	16.0	0.0	0.0	0.0	0.1
9/8/2022	7:35:29 pm	27.0	24.0	0.0	0.0	0.0	0.0
9/8/2022	7:45:59 pm	0.0	0.0	0.0	0.0	0.0	0.0
9/8/2022	7:56:29 pm	10.0	8.0	0.0	0.0	0.0	0.1
9/8/2022	8:06:59 pm	26.0	23.0	0.0	0.0	0.0	0.1
9/8/2022	8:17:29 pm	3.0	2.0	0.0	0.0	0.0	0.2
9/8/2022	8:27:59 pm	11.0	8.0	0.0	0.0	0.0	0.0
9/8/2022	8:38:29 pm	20.0	19.0	0.0	0.0	0.0	0.1
9/8/2022	8:48:59 pm	28.0	28.0	0.0	0.0	0.0	0.1
9/8/2022	8:59:29 pm	30.0	28.0	0.0	0.0	0.0	0.1
9/8/2022	9:09:59 pm	28.0	26.0	0.0	0.0	0.0	0.0
9/8/2022	9:20:29 pm	7.0	6.0	0.0	0.0	0.0	0.0
9/8/2022	9:30:59 pm	7.0	5.0	0.0	0.0	0.0	0.0
9/8/2022	9:41:29 pm	11.0	9.0	0.0	0.0	0.0	0.1
9/8/2022	9:51:59 pm	20.0	20.0	0.0	0.0	0.0	0.1
9/8/2022	10:02:29 pm	20.0	18.0	0.0	0.0	0.0	0.1
9/8/2022	10:12:59 pm	17.0	14.0	0.0	0.0	0.0	0.0
9/8/2022	10:23:29 pm	25.0	21.0	0.0	0.0	0.0	0.2
9/8/2022	10:33:59 pm	5.0	2.0	0.0	0.0	0.0	0.0
9/8/2022	10:44:29 pm	26.0	25.0	0.0	0.0	0.0	0.2
9/8/2022	10:54:59 pm	6.0	4.0	0.0	0.0	0.0	0.1
9/8/2022	11:05:29 pm	25.0	24.0	0.0	0.0	0.0	0.1
9/8/2022	11:15:59 pm	17.0	15.0	0.0	0.0	0.0	0.0
9/8/2022	11:26:29 pm	4.0	4.0	0.0	0.0	0.0	0.1
9/8/2022	11:36:59 pm	12.0	12.0	0.0	0.0	0.0	0.2
9/8/2022	11:47:29 pm	21.0	17.0	0.0	0.0	0.0	0.1
9/8/2022	11:57:59 pm	16.0	13.0	0.0	0.0	0.0	0.1
9/8/2022	12:08:29 am	3.0	2.0	0.0	0.0	0.0	0.1
9/8/2022	12:18:59 am	0.0	0.0	0.0	0.0	0.0	0.1
9/8/2022	12:29:29 am	5.0	5.0	0.0	0.0	0.0	0.1
9/8/2022	12:39:59 am	8.0	4.0	0.0	0.0	0.0	0.0
9/8/2022	12:50:29 am	16.0	14.0	0.0	0.0	0.0	0.1
9/8/2022	1:00:59 am	17.0	15.0	0.0	0.0	0.0	0.1
9/8/2022	1:11:29 am	16.0	14.0	0.0	0.0	0.0	0.1
9/8/2022	1:21:59 am	10.0	6.0	0.0	0.0	0.0	0.1
9/8/2022	1:32:29 am	29.0	16.0	0.0	0.0	0.0	0.1
9/8/2022	1:42:59 am	4.0	4.0	0.0	0.0	0.0	0.0
9/8/2022	1:53:29 am	0.0	0.0	0.0	0.0	0.0	0.0
9/8/2022	2:03:59 am	29.0	22.0	0.0	0.0	0.0	0.2
9/8/2022	2:14:29 am	20.0	18.0	0.0	0.0	0.0	0.1
9/8/2022	2:24:59 am	24.0	23.0	0.0	0.0	0.0	0.1
9/8/2022	2:35:29 am	20.0	18.0	0.0	0.0	0.0	0.0
9/8/2022	2:45:59 am	2.0	2.0	0.0	0.0	0.0	0.0
9/8/2022	2:56:29 am	9.0	7.0	0.0	0.0	0.0	0.0
9/8/2022	3:06:59 am	4.0	4.0	0.0	0.0	0.0	0.1
9/8/2022	3:17:29 am	4.0	4.0	0.0	0.0	0.0	0.1
9/8/2022	3:27:59 am	10.0	9.0	0.0	0.0	0.0	0.0
9/8/2022	3:38:29 am	0.0	0.0	0.0	0.0	0.0	0.2

Air Quality Monitoring Data from Station A3
5 August to 12 August 2022

Equipment: Oceanus OC-1000

9/8/2022	3:48:59 am	3.0	3.0	0.0	0.0	0.0	0.1
9/8/2022	3:59:29 am	26.0	24.0	0.0	0.0	0.0	0.0
9/8/2022	4:09:59 am	2.0	2.0	0.0	0.0	0.0	0.0
9/8/2022	4:20:29 am	0.0	0.0	0.0	0.0	0.0	0.0
9/8/2022	4:30:59 am	30.0	28.0	0.0	0.0	0.0	0.2
9/8/2022	4:41:29 am	21.0	18.0	0.0	0.0	0.0	0.1
10/8/2022	4:51:59 am	0.0	0.0	0.0	0.0	0.0	0.0
10/8/2022	5:02:29 am	16.0	15.0	0.0	0.0	0.0	0.1
10/8/2022	5:12:59 am	2.0	2.0	0.0	0.0	0.0	0.1
10/8/2022	5:23:29 am	25.0	13.0	0.0	0.0	0.0	0.1
10/8/2022	5:33:59 am	14.0	10.0	0.0	0.0	0.0	0.2
10/8/2022	5:44:29 am	29.0	27.0	0.0	0.0	0.0	0.2
10/8/2022	5:54:59 am	19.0	16.0	0.0	0.0	0.0	0.1
10/8/2022	6:05:29 am	27.0	25.0	0.0	0.0	0.0	0.0
10/8/2022	6:15:59 am	7.0	5.0	0.0	0.0	0.0	0.1
10/8/2022	6:26:29 am	29.0	27.0	0.0	0.0	0.0	0.2
10/8/2022	6:36:59 am	22.0	21.0	0.0	0.0	0.0	0.1
10/8/2022	6:47:29 am	30.0	27.0	0.0	0.0	0.0	0.0
10/8/2022	6:57:59 am	15.0	14.0	0.0	0.0	0.0	0.0
10/8/2022	7:08:29 am	29.0	26.0	0.0	0.0	0.0	0.1
10/8/2022	7:18:59 am	4.0	3.0	0.0	0.0	0.0	0.1
10/8/2022	7:29:29 am	30.0	29.0	0.0	0.0	0.0	0.1
10/8/2022	7:39:59 am	13.0	11.0	0.0	0.0	0.0	0.1
10/8/2022	7:50:29 am	30.0	27.0	0.0	0.0	0.0	0.0
10/8/2022	8:00:59 am	17.0	15.0	0.0	0.0	0.0	0.1
10/8/2022	8:11:29 am	10.0	9.0	0.0	0.0	0.0	0.1
10/8/2022	8:21:59 am	12.0	10.0	0.0	0.0	0.0	0.1
10/8/2022	8:32:29 am	9.0	7.0	0.0	0.0	0.0	0.1
10/8/2022	8:42:59 am	5.0	4.0	0.0	0.0	0.0	0.0
10/8/2022	8:53:29 am	26.0	24.0	0.0	0.0	0.0	0.1
10/8/2022	9:03:59 am	7.0	5.0	0.0	0.0	0.0	0.1
10/8/2022	9:14:29 am	24.0	24.0	0.0	0.0	0.0	0.1
10/8/2022	9:24:59 am	20.0	16.0	0.0	0.0	0.0	0.0
10/8/2022	9:35:29 am	1.0	1.0	0.0	0.0	0.0	0.1
10/8/2022	9:45:59 am	10.0	9.0	0.0	0.0	0.0	0.2
10/8/2022	9:56:29 am	15.0	14.0	0.0	0.0	0.0	0.0
10/8/2022	10:06:59 am	16.0	16.0	0.0	0.0	0.0	0.1
10/8/2022	10:17:29 am	16.0	16.0	0.0	0.0	0.0	0.1
10/8/2022	10:27:59 am	26.0	24.0	0.0	0.0	0.0	0.1
10/8/2022	10:38:29 am	11.0	9.0	0.0	0.0	0.0	0.0
10/8/2022	10:48:59 am	14.0	11.0	0.0	0.0	0.0	0.1
10/8/2022	10:59:29 am	21.0	18.0	0.0	0.0	0.0	0.0
10/8/2022	11:09:59 am	16.0	14.0	0.0	0.0	0.0	0.2
10/8/2022	11:20:29 am	29.0	27.0	0.0	0.0	0.0	0.1
10/8/2022	11:30:59 am	13.0	11.0	0.0	0.0	0.0	0.0
10/8/2022	11:41:29 am	22.0	21.0	0.0	0.0	0.0	0.2
10/8/2022	11:51:59 am	0.0	0.0	0.0	0.0	0.0	0.1
10/8/2022	12:02:29 pm	8.0	6.0	0.0	0.0	0.0	0.1

Air Quality Monitoring Data from Station A3
5 August to 12 August 2022

Equipment: Oceanus OC-1000

10/8/2022	12:12:59 pm	12.0	10.0	0.0	0.0	0.0	0.1
10/8/2022	12:23:29 pm	10.0	8.0	0.0	0.0	0.0	0.1
10/8/2022	12:33:59 pm	10.0	8.0	0.0	0.0	0.0	0.2
10/8/2022	12:44:29 pm	25.0	21.0	0.0	0.0	0.0	0.1
10/8/2022	12:54:59 pm	6.0	3.0	0.0	0.0	0.0	0.0
10/8/2022	1:05:29 pm	24.0	22.0	0.0	0.0	0.0	0.1
10/8/2022	1:15:59 pm	0.0	0.0	0.0	0.0	0.0	0.1
10/8/2022	1:26:29 pm	17.0	15.0	0.0	0.0	0.0	0.2
10/8/2022	1:36:59 pm	5.0	3.0	0.0	0.0	0.0	0.2
10/8/2022	1:47:29 pm	23.0	21.0	0.0	0.0	0.0	0.0
10/8/2022	1:57:59 pm	27.0	24.0	0.0	0.0	0.0	0.2
10/8/2022	2:08:29 pm	11.0	8.0	0.0	0.0	0.0	0.1
10/8/2022	2:18:59 pm	1.0	1.0	0.0	0.0	0.0	0.1
10/8/2022	2:29:29 pm	26.0	23.0	0.0	0.0	0.0	0.0
10/8/2022	2:39:59 pm	10.0	7.0	0.0	0.0	0.0	0.1
10/8/2022	2:50:29 pm	24.0	21.0	0.0	0.0	0.0	0.2
10/8/2022	3:00:59 pm	7.0	5.0	0.0	0.0	0.0	0.1
10/8/2022	3:11:29 pm	20.0	18.0	0.0	0.0	0.0	0.2
10/8/2022	3:21:59 pm	6.0	4.0	0.0	0.0	0.0	0.0
10/8/2022	3:32:29 pm	31.0	27.0	0.0	0.0	0.0	0.1
10/8/2022	3:42:59 pm	1.0	1.0	0.0	0.0	0.0	0.0
10/8/2022	3:53:29 pm	25.0	23.0	0.0	0.0	0.0	0.1
10/8/2022	4:03:59 pm	7.0	5.0	0.0	0.0	0.0	0.0
10/8/2022	4:14:29 pm	9.0	5.0	0.0	0.0	0.0	0.1
10/8/2022	4:24:59 pm	21.0	18.0	0.0	0.0	0.0	0.1
10/8/2022	4:35:29 pm	22.0	15.0	0.0	0.0	0.0	0.0
10/8/2022	4:45:59 pm	24.0	24.0	0.0	0.0	0.0	0.0
10/8/2022	4:56:29 pm	14.0	10.0	0.0	0.0	0.0	0.0
10/8/2022	5:06:59 pm	25.0	23.0	0.0	0.0	0.0	0.0
10/8/2022	5:17:29 pm	15.0	14.0	0.0	0.0	0.0	0.0
10/8/2022	5:27:59 pm	17.0	15.0	0.0	0.0	0.0	0.0
10/8/2022	5:38:29 pm	27.0	26.0	0.0	0.0	0.0	0.0
10/8/2022	5:48:59 pm	31.0	28.0	0.0	0.0	0.0	0.0
10/8/2022	5:59:29 pm	15.0	13.0	0.0	0.0	0.0	0.0
10/8/2022	6:09:59 pm	10.0	8.0	0.0	0.0	0.0	0.1
10/8/2022	6:20:29 pm	30.0	24.0	0.0	0.0	0.0	0.1
10/8/2022	6:30:59 pm	31.0	25.0	0.0	0.0	0.0	0.2
10/8/2022	6:41:29 pm	23.0	20.0	0.0	0.0	0.0	0.0
10/8/2022	6:51:59 pm	0.0	0.0	0.0	0.0	0.0	0.1
10/8/2022	7:02:29 pm	10.0	10.0	0.0	0.0	0.0	0.1
10/8/2022	7:12:59 pm	1.0	1.0	0.0	0.0	0.0	0.1
10/8/2022	7:23:29 pm	3.0	2.0	0.0	0.0	0.0	0.0
10/8/2022	7:33:59 pm	29.0	25.0	0.0	0.0	0.0	0.0
10/8/2022	7:44:29 pm	30.0	29.0	0.0	0.0	0.0	0.1
10/8/2022	7:54:59 pm	19.0	14.0	0.0	0.0	0.0	0.2
10/8/2022	8:05:29 pm	4.0	3.0	0.0	0.0	0.0	0.0
10/8/2022	8:15:59 pm	6.0	5.0	0.0	0.0	0.0	0.0
10/8/2022	8:26:29 pm	19.0	16.0	0.0	0.0	0.0	0.2

Air Quality Monitoring Data from Station A3
5 August to 12 August 2022

Equipment: Oceanus OC-1000

10/8/2022	8:36:59 pm	26.0	25.0	0.0	0.0	0.0	0.2
10/8/2022	8:47:29 pm	3.0	2.0	0.0	0.0	0.0	0.1
10/8/2022	8:57:59 pm	26.0	23.0	0.0	0.0	0.0	0.1
10/8/2022	9:08:29 pm	5.0	4.0	0.0	0.0	0.0	0.2
10/8/2022	9:18:59 pm	13.0	12.0	0.0	0.0	0.0	0.1
10/8/2022	9:29:29 pm	31.0	28.0	0.0	0.0	0.0	0.0
10/8/2022	9:39:59 pm	13.0	12.0	0.0	0.0	0.0	0.0
10/8/2022	9:50:29 pm	22.0	18.0	0.0	0.0	0.0	0.0
10/8/2022	10:00:59 pm	12.0	9.0	0.0	0.0	0.0	0.2
10/8/2022	10:11:29 pm	11.0	8.0	0.0	0.0	0.0	0.1
10/8/2022	10:21:59 pm	18.0	16.0	0.0	0.0	0.0	0.1
10/8/2022	10:32:29 pm	31.0	28.0	0.0	0.0	0.0	0.1
10/8/2022	10:42:59 pm	19.0	16.0	0.0	0.0	0.0	0.1
10/8/2022	10:53:29 pm	22.0	19.0	0.0	0.0	0.0	0.0
10/8/2022	11:03:59 pm	0.0	0.0	0.0	0.0	0.0	0.1
10/8/2022	11:14:29 pm	1.0	1.0	0.0	0.0	0.0	0.1
10/8/2022	11:24:59 pm	14.0	13.0	0.0	0.0	0.0	0.1
10/8/2022	11:35:29 pm	8.0	6.0	0.0	0.0	0.0	0.0
10/8/2022	11:45:59 pm	28.0	27.0	0.0	0.0	0.0	0.1
10/8/2022	11:56:29 pm	9.0	7.0	0.0	0.0	0.0	0.2
10/8/2022	12:06:59 am	1.0	1.0	0.0	0.0	0.0	0.1
10/8/2022	12:17:29 am	13.0	10.0	0.0	0.0	0.0	0.1
10/8/2022	12:27:59 am	22.0	21.0	0.0	0.0	0.0	0.2
10/8/2022	12:38:29 am	12.0	8.0	0.0	0.0	0.0	0.2
10/8/2022	12:48:59 am	26.0	24.0	0.0	0.0	0.0	0.2
10/8/2022	12:59:29 am	11.0	9.0	0.0	0.0	0.0	0.0
10/8/2022	1:09:59 am	20.0	18.0	0.0	0.0	0.0	0.2
10/8/2022	1:20:29 am	19.0	16.0	0.0	0.0	0.0	0.0
10/8/2022	1:30:59 am	21.0	19.0	0.0	0.0	0.0	0.0
10/8/2022	1:41:29 am	4.0	3.0	0.0	0.0	0.0	0.2
10/8/2022	1:51:59 am	23.0	20.0	0.0	0.0	0.0	0.1
10/8/2022	2:02:29 am	26.0	24.0	0.0	0.0	0.0	0.1
10/8/2022	2:12:59 am	15.0	13.0	0.0	0.0	0.0	0.1
10/8/2022	2:23:29 am	13.0	12.0	0.0	0.0	0.0	0.0
10/8/2022	2:33:59 am	5.0	4.0	0.0	0.0	0.0	0.0
10/8/2022	2:44:29 am	15.0	15.0	0.0	0.0	0.0	0.0
10/8/2022	2:54:59 am	26.0	23.0	0.0	0.0	0.0	0.0
10/8/2022	3:05:29 am	19.0	19.0	0.0	0.0	0.0	0.1
10/8/2022	3:15:59 am	3.0	3.0	0.0	0.0	0.0	0.2
10/8/2022	3:26:29 am	29.0	26.0	0.0	0.0	0.0	0.2
10/8/2022	3:36:59 am	25.0	23.0	0.0	0.0	0.0	0.1
10/8/2022	3:47:29 am	8.0	7.0	0.0	0.0	0.0	0.2
10/8/2022	3:57:59 am	3.0	3.0	0.0	0.0	0.0	0.1
10/8/2022	4:08:29 am	27.0	26.0	0.0	0.0	0.0	0.2
10/8/2022	4:18:59 am	21.0	17.0	0.0	0.0	0.0	0.1
10/8/2022	4:29:29 am	31.0	28.0	0.0	0.0	0.0	0.2
10/8/2022	4:39:59 am	11.0	8.0	0.0	0.0	0.0	0.0
10/8/2022	4:50:29 am	14.0	13.0	0.0	0.0	0.0	0.1

Air Quality Monitoring Data from Station A3
5 August to 12 August 2022

Equipment: Oceanus OC-1000

10/8/2022	5:00:59 am	31.0	28.0	0.0	0.0	0.0	0.1
10/8/2022	5:11:29 am	30.0	28.0	0.0	0.0	0.0	0.1
10/8/2022	5:21:59 am	4.0	4.0	0.0	0.0	0.0	0.1
10/8/2022	5:32:29 am	23.0	22.0	0.0	0.0	0.0	0.1
10/8/2022	5:42:59 am	20.0	19.0	0.0	0.0	0.0	0.1
10/8/2022	5:53:29 am	31.0	29.0	0.0	0.0	0.0	0.0
11/8/2022	6:03:59 am	26.0	23.0	0.0	0.0	0.0	0.0
11/8/2022	6:14:29 am	31.0	28.0	0.0	0.0	0.0	0.1
11/8/2022	6:24:59 am	6.0	5.0	0.0	0.0	0.0	0.1
11/8/2022	6:35:29 am	5.0	5.0	0.0	0.0	0.0	0.1
11/8/2022	6:45:59 am	21.0	20.0	0.0	0.0	0.0	0.1
11/8/2022	6:56:29 am	4.0	4.0	0.0	0.0	0.0	0.1
11/8/2022	7:06:59 am	10.0	8.0	0.0	0.0	0.0	0.2
11/8/2022	7:17:29 am	27.0	25.0	0.0	0.0	0.0	0.2
11/8/2022	7:27:59 am	10.0	8.0	0.0	0.0	0.0	0.0
11/8/2022	7:38:29 am	19.0	16.0	0.0	0.0	0.0	0.0
11/8/2022	7:48:59 am	21.0	20.0	0.0	0.0	0.0	0.1
11/8/2022	7:59:29 am	13.0	11.0	0.0	0.0	0.0	0.0
11/8/2022	8:09:59 am	29.0	28.0	0.0	0.0	0.0	0.0
11/8/2022	8:20:29 am	28.0	27.0	0.0	0.0	0.0	0.2
11/8/2022	8:30:59 am	25.0	22.0	0.0	0.0	0.0	0.1
11/8/2022	8:41:29 am	3.0	2.0	0.0	0.0	0.0	0.1
11/8/2022	8:51:59 am	23.0	21.0	0.0	0.0	0.0	0.1
11/8/2022	9:02:29 am	4.0	4.0	0.0	0.0	0.0	0.2
11/8/2022	9:12:59 am	6.0	4.0	0.0	0.0	0.0	0.1
11/8/2022	9:23:29 am	31.0	29.0	0.0	0.0	0.0	0.1
11/8/2022	9:33:59 am	22.0	21.0	0.0	0.0	0.0	0.2
11/8/2022	9:44:29 am	30.0	29.0	0.0	0.0	0.0	0.0
11/8/2022	9:54:59 am	8.0	6.0	0.0	0.0	0.0	0.1
11/8/2022	10:05:29 am	22.0	20.0	0.0	0.0	0.0	0.1
11/8/2022	10:15:59 am	2.0	2.0	0.0	0.0	0.0	0.2
11/8/2022	10:26:29 am	12.0	10.0	0.0	0.0	0.0	0.0
11/8/2022	10:36:59 am	18.0	14.0	0.0	0.0	0.0	0.0
11/8/2022	10:47:29 am	28.0	27.0	0.0	0.0	0.0	0.1
11/8/2022	10:57:59 am	16.0	25.0	0.0	0.0	0.0	0.0
11/8/2022	11:08:29 am	5.0	4.0	0.0	0.0	0.0	0.2
11/8/2022	11:18:59 am	13.0	11.0	0.0	0.0	0.0	0.2
11/8/2022	11:29:29 am	14.0	13.0	0.0	0.0	0.0	0.1
11/8/2022	11:39:59 am	20.0	18.0	0.0	0.0	0.0	0.2
11/8/2022	11:50:29 am	26.0	24.0	0.0	0.0	0.0	0.0
11/8/2022	12:00:59 pm	19.0	16.0	0.0	0.0	0.0	0.0
11/8/2022	12:11:29 pm	24.0	23.0	0.0	0.0	0.0	0.1
11/8/2022	12:21:59 pm	9.0	7.0	0.0	0.0	0.0	0.1
11/8/2022	12:32:29 pm	4.0	4.0	0.0	0.0	0.0	0.1
11/8/2022	12:42:59 pm	1.0	1.0	0.0	0.0	0.0	0.1
11/8/2022	12:53:29 pm	3.0	3.0	0.0	0.0	0.0	0.1
11/8/2022	1:03:59 pm	15.0	12.0	0.0	0.0	0.0	0.2
11/8/2022	1:14:29 pm	22.0	21.0	0.0	0.0	0.0	0.0

Air Quality Monitoring Data from Station A3
5 August to 12 August 2022

Equipment: Oceanus OC-1000

11/8/2022	1:24:59 pm	30.0	27.0	0.0	0.0	0.0	0.2
11/8/2022	1:35:29 pm	1.0	1.0	0.0	0.0	0.0	0.1
11/8/2022	1:45:59 pm	9.0	8.0	0.0	0.0	0.0	0.0
11/8/2022	1:56:29 pm	12.0	11.0	0.0	0.0	0.0	0.2
11/8/2022	2:06:59 pm	31.0	28.0	0.0	0.0	0.0	0.1
11/8/2022	2:17:29 pm	23.0	21.0	0.0	0.0	0.0	0.2
11/8/2022	2:27:59 pm	11.0	8.0	0.0	0.0	0.0	0.1
11/8/2022	2:38:29 pm	20.0	17.0	0.0	0.0	0.0	0.1
11/8/2022	2:48:59 pm	13.0	11.0	0.0	0.0	0.0	0.1
11/8/2022	2:59:29 pm	31.0	27.0	0.0	0.0	0.0	0.2
11/8/2022	3:09:59 pm	18.0	17.0	0.0	0.0	0.0	0.1
11/8/2022	3:20:29 pm	8.0	7.0	0.0	0.0	0.0	0.1
11/8/2022	3:30:59 pm	14.0	13.0	0.0	0.0	0.0	0.1
11/8/2022	3:41:29 pm	26.0	24.0	0.0	0.0	0.0	0.1
11/8/2022	3:51:59 pm	31.0	30.0	0.0	0.0	0.0	0.2
11/8/2022	4:02:29 pm	6.0	4.0	0.0	0.0	0.0	0.1
11/8/2022	4:12:59 pm	12.0	10.0	0.0	0.0	0.0	0.0
11/8/2022	4:23:29 pm	12.0	11.0	0.0	0.0	0.0	0.1
11/8/2022	4:33:59 pm	12.0	11.0	0.0	0.0	0.0	0.1
11/8/2022	4:44:29 pm	30.0	27.0	0.0	0.0	0.0	0.1
11/8/2022	4:54:59 pm	5.0	5.0	0.0	0.0	0.0	0.2
11/8/2022	5:05:29 pm	25.0	23.0	0.0	0.0	0.0	0.0
11/8/2022	5:15:59 pm	27.0	26.0	0.0	0.0	0.0	0.1
11/8/2022	5:26:29 pm	20.0	16.0	0.0	0.0	0.0	0.0
11/8/2022	5:36:59 pm	1.0	1.0	0.0	0.0	0.0	0.2
11/8/2022	5:47:29 pm	1.0	1.0	0.0	0.0	0.0	0.2
11/8/2022	5:57:59 pm	26.0	24.0	0.0	0.0	0.0	0.1
11/8/2022	6:08:29 pm	6.0	5.0	0.0	0.0	0.0	0.1
11/8/2022	6:18:59 pm	11.0	10.0	0.0	0.0	0.0	0.1
11/8/2022	6:29:29 pm	10.0	8.0	0.0	0.0	0.0	0.2
11/8/2022	6:39:59 pm	27.0	25.0	0.0	0.0	0.0	0.1
11/8/2022	6:50:29 pm	17.0	14.0	0.0	0.0	0.0	0.0
11/8/2022	7:00:59 pm	2.0	2.0	0.0	0.0	0.0	0.0
11/8/2022	7:11:29 pm	21.0	19.0	0.0	0.0	0.0	0.1
11/8/2022	7:21:59 pm	27.0	25.0	0.0	0.0	0.0	0.0
11/8/2022	7:32:29 pm	27.0	25.0	0.0	0.0	0.0	0.1
11/8/2022	7:42:59 pm	13.0	10.0	0.0	0.0	0.0	0.2
11/8/2022	7:53:29 pm	31.0	29.0	0.0	0.0	0.0	0.1
11/8/2022	8:03:59 pm	9.0	8.0	0.0	0.0	0.0	0.1
11/8/2022	8:14:29 pm	28.0	25.0	0.0	0.0	0.0	0.2
11/8/2022	8:24:59 pm	12.0	10.0	0.0	0.0	0.0	0.1
11/8/2022	8:35:29 pm	26.0	24.0	0.0	0.0	0.0	0.1
11/8/2022	8:45:59 pm	15.0	13.0	0.0	0.0	0.0	0.1
11/8/2022	8:56:29 pm	0.0	0.0	0.0	0.0	0.0	0.1
11/8/2022	9:06:59 pm	4.0	4.0	0.0	0.0	0.0	0.1
11/8/2022	9:17:29 pm	15.0	15.0	0.0	0.0	0.0	0.1
11/8/2022	9:27:59 pm	19.0	18.0	0.0	0.0	0.0	0.1
11/8/2022	9:38:29 pm	24.0	23.0	0.0	0.0	0.0	0.1

Air Quality Monitoring Data from Station A3
5 August to 12 August 2022

Equipment: Oceanus OC-1000

11/8/2022	9:48:59 pm	18.0	16.0	0.0	0.0	0.0	0.1
11/8/2022	9:59:29 pm	30.0	28.0	0.0	0.0	0.0	0.0
11/8/2022	10:09:59 pm	19.0	17.0	0.0	0.0	0.0	0.1
11/8/2022	10:20:29 pm	24.0	22.0	0.0	0.0	0.0	0.1
11/8/2022	10:30:59 pm	9.0	7.0	0.0	0.0	0.0	0.1
11/8/2022	10:41:29 pm	4.0	3.0	0.0	0.0	0.0	0.1
11/8/2022	10:51:59 pm	10.0	8.0	0.0	0.0	0.0	0.1
11/8/2022	11:02:29 pm	13.0	11.0	0.0	0.0	0.0	0.1
11/8/2022	11:12:59 pm	17.0	14.0	0.0	0.0	0.0	0.0
11/8/2022	11:23:29 pm	26.0	23.0	0.0	0.0	0.0	0.1
11/8/2022	11:33:59 pm	18.0	16.0	0.0	0.0	0.0	0.1
11/8/2022	11:44:29 pm	16.0	16.0	0.0	0.0	0.0	0.0
11/8/2022	11:54:59 pm	20.0	17.0	0.0	0.0	0.0	0.2
11/8/2022	12:05:29 am	26.0	25.0	0.0	0.0	0.0	0.1
11/8/2022	12:15:59 am	7.0	4.0	0.0	0.0	0.0	0.1
11/8/2022	12:26:29 am	6.0	6.0	0.0	0.0	0.0	0.1
11/8/2022	12:36:59 am	0.0	0.0	0.0	0.0	0.0	0.1
11/8/2022	12:47:29 am	19.0	15.0	0.0	0.0	0.0	0.1
11/8/2022	12:57:59 am	23.0	21.0	0.0	0.0	0.0	0.2
11/8/2022	1:08:29 am	4.0	4.0	0.0	0.0	0.0	0.1
11/8/2022	1:18:59 am	6.0	4.0	0.0	0.0	0.0	0.1
11/8/2022	1:29:29 am	15.0	11.0	0.0	0.0	0.0	0.1
11/8/2022	1:39:59 am	16.0	15.0	0.0	0.0	0.0	0.1
11/8/2022	1:50:29 am	8.0	8.0	0.0	0.0	0.0	0.0
11/8/2022	2:00:59 am	23.0	21.0	0.0	0.0	0.0	0.0
11/8/2022	2:11:29 am	5.0	5.0	0.0	0.0	0.0	0.0
11/8/2022	2:21:59 am	13.0	11.0	0.0	0.0	0.0	0.0
11/8/2022	2:32:29 am	2.0	2.0	0.0	0.0	0.0	0.1
11/8/2022	2:42:59 am	17.0	15.0	0.0	0.0	0.0	0.1
11/8/2022	2:53:29 am	3.0	3.0	0.0	0.0	0.0	0.1
11/8/2022	3:03:59 am	30.0	26.0	0.0	0.0	0.0	0.2
11/8/2022	3:14:29 am	9.0	8.0	0.0	0.0	0.0	0.2
11/8/2022	3:24:59 am	25.0	23.0	0.0	0.0	0.0	0.0
11/8/2022	3:35:29 am	30.0	28.0	0.0	0.0	0.0	0.0
11/8/2022	3:45:59 am	10.0	8.0	0.0	0.0	0.0	0.1
11/8/2022	3:56:29 am	26.0	24.0	0.0	0.0	0.0	0.1
11/8/2022	4:06:59 am	3.0	2.0	0.0	0.0	0.0	0.1
11/8/2022	4:17:29 am	27.0	25.0	0.0	0.0	0.0	0.1
11/8/2022	4:27:59 am	28.0	27.0	0.0	0.0	0.0	0.1
11/8/2022	4:38:29 am	11.0	9.0	0.0	0.0	0.0	0.1
11/8/2022	4:48:59 am	12.0	10.0	0.0	0.0	0.0	0.1
11/8/2022	4:59:29 am	22.0	21.0	0.0	0.0	0.0	0.1
11/8/2022	5:09:59 am	6.0	5.0	0.0	0.0	0.0	0.1
11/8/2022	5:20:29 am	2.0	1.0	0.0	0.0	0.0	0.1
11/8/2022	5:30:59 am	8.0	6.0	0.0	0.0	0.0	0.0
11/8/2022	5:41:29 am	4.0	4.0	0.0	0.0	0.0	0.2
11/8/2022	5:51:59 am	29.0	26.0	0.0	0.0	0.0	0.1
11/8/2022	6:02:29 am	4.0	4.0	0.0	0.0	0.0	0.0

Air Quality Monitoring Data from Station A3
5 August to 12 August 2022

Equipment: Oceanus OC-1000

11/8/2022	6:12:59 am	8.0	6.0	0.0	0.0	0.0	0.2
11/8/2022	6:23:29 am	3.0	3.0	0.0	0.0	0.0	0.0
11/8/2022	6:33:59 am	15.0	13.0	0.0	0.0	0.0	0.1
11/8/2022	6:44:29 am	7.0	6.0	0.0	0.0	0.0	0.1
11/8/2022	6:54:59 am	3.0	1.0	0.0	0.0	0.0	0.1
11/8/2022	7:05:29 am	2.0	1.0	0.0	0.0	0.0	0.2
12/8/2022	7:15:59 am	23.0	21.0	0.0	0.0	0.0	0.0
12/8/2022	7:26:29 am	4.0	4.0	0.0	0.0	0.0	0.1
12/8/2022	7:36:59 am	10.0	8.0	0.0	0.0	0.0	0.0
12/8/2022	7:47:29 am	23.0	20.0	0.0	0.0	0.0	0.0
12/8/2022	7:57:59 am	30.0	27.0	0.0	0.0	0.0	0.1
12/8/2022	8:08:29 am	0.0	0.0	0.0	0.0	0.0	0.1
12/8/2022	8:18:59 am	24.0	22.0	0.0	0.0	0.0	0.1
12/8/2022	8:29:29 am	14.0	12.0	0.0	0.0	0.0	0.0
12/8/2022	8:39:59 am	6.0	4.0	0.0	0.0	0.0	0.2
12/8/2022	8:50:29 am	16.0	14.0	0.0	0.0	0.0	0.1
12/8/2022	9:00:59 am	21.0	19.0	0.0	0.0	0.0	0.0
12/8/2022	9:11:29 am	5.0	4.0	0.0	0.0	0.0	0.2
12/8/2022	9:21:59 am	24.0	23.0	0.0	0.0	0.0	0.0
12/8/2022	9:32:29 am	7.0	4.0	0.0	0.0	0.0	0.1
12/8/2022	9:42:59 am	2.0	2.0	0.0	0.0	0.0	0.1
12/8/2022	9:53:29 am	7.0	4.0	0.0	0.0	0.0	0.1
12/8/2022	10:03:59 am	15.0	13.0	0.0	0.0	0.0	0.0
12/8/2022	10:14:29 am	29.0	27.0	0.0	0.0	0.0	0.0
12/8/2022	10:24:59 am	9.0	8.0	0.0	0.0	0.0	0.2
12/8/2022	10:35:29 am	15.0	13.0	0.0	0.0	0.0	0.0
12/8/2022	10:45:59 am	4.0	3.0	0.0	0.0	0.0	0.1
12/8/2022	10:56:29 am	26.0	24.0	0.0	0.0	0.0	0.0
12/8/2022	11:06:59 am	16.0	15.0	0.0	0.0	0.0	0.2
12/8/2022	11:17:29 am	5.0	4.0	0.0	0.0	0.0	0.2
12/8/2022	11:27:59 am	4.0	4.0	0.0	0.0	0.0	0.0
12/8/2022	11:38:29 am	21.0	20.0	0.0	0.0	0.0	0.1
12/8/2022	11:48:59 am	4.0	3.0	0.0	0.0	0.0	0.0
12/8/2022	11:59:29 am	21.0	20.0	0.0	0.0	0.0	0.1
12/8/2022	12:09:59 pm	14.0	12.0	0.0	0.0	0.0	0.1

APPENDIX I

Baseline Vibration Level Monitoring Report

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 15:37	-.-
15/8/2022 15:38	-.-
15/8/2022 15:37	10.34
15/8/2022 15:38	-.-
15/8/2022 15:39	-.-
15/8/2022 15:38	0.15
15/8/2022 15:39	-.-
15/8/2022 15:40	-.-
15/8/2022 15:39	0.09
15/8/2022 15:40	-.-
15/8/2022 15:41	-.-
15/8/2022 15:40	0.13
15/8/2022 15:41	-.-
15/8/2022 15:42	-.-
15/8/2022 15:41	0.15
15/8/2022 15:42	-.-
15/8/2022 15:43	-.-
15/8/2022 15:42	0.12
15/8/2022 15:43	-.-
15/8/2022 15:44	-.-
15/8/2022 15:43	0.21
15/8/2022 15:44	-.-
15/8/2022 15:45	-.-
15/8/2022 15:44	0.18
15/8/2022 15:45	-.-
15/8/2022 15:46	-.-
15/8/2022 15:45	0.15
15/8/2022 15:46	-.-
15/8/2022 15:47	-.-
15/8/2022 15:46	0.19
15/8/2022 15:47	-.-
15/8/2022 15:48	-.-
15/8/2022 15:47	0.12
15/8/2022 15:48	-.-
15/8/2022 15:49	-.-
15/8/2022 15:48	0.12
15/8/2022 15:49	-.-
15/8/2022 15:50	-.-
15/8/2022 15:49	0.14
15/8/2022 15:50	-.-
15/8/2022 15:51	-.-
15/8/2022 15:50	0.18
15/8/2022 15:51	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 10:46	-.-
11/8/2022 10:46	-.-
11/8/2022 10:46	9.7
11/8/2022 10:47	-.-
11/8/2022 10:47	-.-
11/8/2022 10:47	0.04
11/8/2022 10:48	-.-
11/8/2022 10:48	-.-
11/8/2022 10:48	0.06
11/8/2022 10:49	-.-
11/8/2022 10:49	-.-
11/8/2022 10:49	0.05
11/8/2022 10:50	-.-
11/8/2022 10:50	-.-
11/8/2022 10:50	0.04
11/8/2022 10:51	-.-
11/8/2022 10:51	-.-
11/8/2022 10:51	0.05
11/8/2022 10:52	-.-
11/8/2022 10:52	-.-
11/8/2022 10:52	0.05
11/8/2022 10:53	-.-
11/8/2022 10:53	-.-
11/8/2022 10:53	0.04
11/8/2022 10:54	-.-
11/8/2022 10:54	-.-
11/8/2022 10:54	0.04
11/8/2022 10:55	-.-
11/8/2022 10:55	-.-
11/8/2022 10:55	0.06
11/8/2022 10:56	-.-
11/8/2022 10:56	-.-
11/8/2022 10:56	0.05
11/8/2022 10:57	-.-
11/8/2022 10:57	-.-
11/8/2022 10:57	0.04
11/8/2022 10:58	-.-
11/8/2022 10:58	-.-
11/8/2022 10:58	0.05
11/8/2022 10:59	-.-
11/8/2022 10:59	-.-
11/8/2022 10:59	0.05
11/8/2022 11:00	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 13:41	-.-
12/8/2022 13:42	-.-
12/8/2022 13:41	4.94
12/8/2022 13:42	-.-
12/8/2022 13:43	-.-
12/8/2022 13:42	0.22
12/8/2022 13:43	-.-
12/8/2022 13:44	-.-
12/8/2022 13:43	0.21
12/8/2022 13:44	-.-
12/8/2022 13:45	-.-
12/8/2022 13:44	0.13
12/8/2022 13:45	-.-
12/8/2022 13:46	-.-
12/8/2022 13:45	0.12
12/8/2022 13:46	-.-
12/8/2022 13:47	-.-
12/8/2022 13:46	0.29
12/8/2022 13:47	-.-
12/8/2022 13:48	-.-
12/8/2022 13:47	0.25
12/8/2022 13:48	-.-
12/8/2022 13:49	-.-
12/8/2022 13:48	0.1
12/8/2022 13:49	-.-
12/8/2022 13:50	-.-
12/8/2022 13:49	0.16
12/8/2022 13:50	-.-
12/8/2022 13:51	-.-
12/8/2022 13:50	0.08
12/8/2022 13:51	-.-
12/8/2022 13:52	-.-
12/8/2022 13:51	0.13
12/8/2022 13:52	-.-
12/8/2022 13:53	-.-
12/8/2022 13:52	0.14
12/8/2022 13:53	-.-
12/8/2022 13:54	-.-
12/8/2022 13:53	0.32
12/8/2022 13:54	-.-
12/8/2022 13:55	-.-
12/8/2022 13:54	0.2
12/8/2022 13:55	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 14:38	-.-
8/8/2022 14:39	-.-
8/8/2022 14:38	11.05
8/8/2022 14:39	-.-
8/8/2022 14:40	-.-
8/8/2022 14:39	0.08
8/8/2022 14:40	-.-
8/8/2022 14:41	-.-
8/8/2022 14:40	0.05
8/8/2022 14:41	-.-
8/8/2022 14:42	-.-
8/8/2022 14:41	0.05
8/8/2022 14:42	-.-
8/8/2022 14:43	-.-
8/8/2022 14:42	0.06
8/8/2022 14:43	-.-
8/8/2022 14:44	-.-
8/8/2022 14:43	0.05
8/8/2022 14:44	-.-
8/8/2022 14:45	-.-
8/8/2022 14:44	0.05
8/8/2022 14:45	-.-
8/8/2022 14:46	-.-
8/8/2022 14:45	0.05
8/8/2022 14:46	-.-
8/8/2022 14:47	-.-
8/8/2022 14:46	0.06
8/8/2022 14:47	-.-
8/8/2022 14:48	-.-
8/8/2022 14:47	0.05
8/8/2022 14:48	-.-
8/8/2022 14:49	-.-
8/8/2022 14:48	0.05
8/8/2022 14:49	-.-
8/8/2022 14:50	-.-
8/8/2022 14:49	0.05
8/8/2022 14:50	-.-
8/8/2022 14:51	-.-
8/8/2022 14:50	0.05
8/8/2022 14:51	-.-
8/8/2022 14:52	-.-
8/8/2022 14:51	0.05
8/8/2022 14:52	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 15:52	-.-
15/8/2022 15:51	0.15
15/8/2022 15:52	-.-
15/8/2022 15:53	-.-
15/8/2022 15:52	0.13
15/8/2022 15:53	-.-
15/8/2022 15:54	-.-
15/8/2022 15:53	0.16
15/8/2022 15:54	-.-
15/8/2022 15:55	-.-
15/8/2022 15:54	0.16
15/8/2022 15:55	-.-
15/8/2022 15:56	-.-
15/8/2022 15:55	0.11
15/8/2022 15:56	-.-
15/8/2022 15:57	-.-
15/8/2022 15:56	0.14
15/8/2022 15:57	-.-
15/8/2022 15:58	-.-
15/8/2022 15:57	0.16
15/8/2022 15:58	-.-
15/8/2022 15:59	-.-
15/8/2022 15:58	0.18
15/8/2022 15:59	-.-
15/8/2022 16:00	-.-
15/8/2022 15:59	0.19
15/8/2022 16:00	-.-
15/8/2022 16:01	-.-
15/8/2022 16:00	0.09
15/8/2022 16:01	-.-
15/8/2022 16:02	-.-
15/8/2022 16:01	0.2
15/8/2022 16:02	-.-
15/8/2022 16:03	-.-
15/8/2022 16:02	0.2
15/8/2022 16:03	-.-
15/8/2022 16:04	-.-
15/8/2022 16:03	0.22
15/8/2022 16:04	-.-
15/8/2022 16:05	-.-
15/8/2022 16:04	0.21
15/8/2022 16:05	-.-
15/8/2022 16:06	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 11:00	-.-
11/8/2022 11:00	0.04
11/8/2022 11:01	-.-
11/8/2022 11:01	-.-
11/8/2022 11:01	0.05
11/8/2022 11:02	-.-
11/8/2022 11:02	-.-
11/8/2022 11:02	0.05
11/8/2022 11:03	-.-
11/8/2022 11:03	-.-
11/8/2022 11:03	0.05
11/8/2022 11:04	-.-
11/8/2022 11:04	-.-
11/8/2022 11:04	0.04
11/8/2022 11:05	-.-
11/8/2022 11:05	-.-
11/8/2022 11:05	0.05
11/8/2022 11:06	-.-
11/8/2022 11:06	-.-
11/8/2022 11:06	0.07
11/8/2022 11:07	-.-
11/8/2022 11:07	-.-
11/8/2022 11:07	0.05
11/8/2022 11:08	-.-
11/8/2022 11:08	-.-
11/8/2022 11:08	0.06
11/8/2022 11:09	-.-
11/8/2022 11:09	-.-
11/8/2022 11:09	0.04
11/8/2022 11:10	-.-
11/8/2022 11:10	-.-
11/8/2022 11:10	0.06
11/8/2022 11:11	-.-
11/8/2022 11:11	-.-
11/8/2022 11:11	0.04
11/8/2022 11:12	-.-
11/8/2022 11:12	-.-
11/8/2022 11:12	0.05
11/8/2022 11:13	-.-
11/8/2022 11:13	-.-
11/8/2022 11:13	0.05
11/8/2022 11:14	-.-
11/8/2022 11:14	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 13:56	-.-
12/8/2022 13:55	0.17
12/8/2022 13:56	-.-
12/8/2022 13:57	-.-
12/8/2022 13:56	0.07
12/8/2022 13:57	-.-
12/8/2022 13:58	-.-
12/8/2022 13:57	0.22
12/8/2022 13:58	-.-
12/8/2022 13:59	-.-
12/8/2022 13:58	0.14
12/8/2022 13:59	-.-
12/8/2022 14:00	-.-
12/8/2022 13:59	0.35
12/8/2022 14:00	-.-
12/8/2022 14:01	-.-
12/8/2022 14:00	0.17
12/8/2022 14:01	-.-
12/8/2022 14:02	-.-
12/8/2022 14:01	0.15
12/8/2022 14:02	-.-
12/8/2022 14:03	-.-
12/8/2022 14:02	0.23
12/8/2022 14:03	-.-
12/8/2022 14:04	-.-
12/8/2022 14:03	0.21
12/8/2022 14:04	-.-
12/8/2022 14:05	-.-
12/8/2022 14:04	0.22
12/8/2022 14:05	-.-
12/8/2022 14:06	-.-
12/8/2022 14:05	0.12
12/8/2022 14:06	-.-
12/8/2022 14:07	-.-
12/8/2022 14:06	0.11
12/8/2022 14:07	-.-
12/8/2022 14:08	-.-
12/8/2022 14:07	0.08
12/8/2022 14:08	-.-
12/8/2022 14:09	-.-
12/8/2022 14:08	0.07
12/8/2022 14:09	-.-
12/8/2022 14:10	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 14:53	-.-
8/8/2022 14:52	0.05
8/8/2022 14:53	-.-
8/8/2022 14:54	-.-
8/8/2022 14:53	0.06
8/8/2022 14:54	-.-
8/8/2022 14:55	-.-
8/8/2022 14:54	0.06
8/8/2022 14:55	-.-
8/8/2022 14:56	-.-
8/8/2022 14:55	0.06
8/8/2022 14:56	-.-
8/8/2022 14:57	-.-
8/8/2022 14:56	0.05
8/8/2022 14:57	-.-
8/8/2022 14:58	-.-
8/8/2022 14:57	0.05
8/8/2022 14:58	-.-
8/8/2022 14:59	-.-
8/8/2022 14:58	0.05
8/8/2022 14:59	-.-
8/8/2022 15:00	-.-
8/8/2022 14:59	0.06
8/8/2022 15:00	-.-
8/8/2022 15:01	-.-
8/8/2022 15:00	0.06
8/8/2022 15:01	-.-
8/8/2022 15:02	-.-
8/8/2022 15:01	0.05
8/8/2022 15:02	-.-
8/8/2022 15:03	-.-
8/8/2022 15:02	0.06
8/8/2022 15:03	-.-
8/8/2022 15:04	-.-
8/8/2022 15:03	0.05
8/8/2022 15:04	-.-
8/8/2022 15:05	-.-
8/8/2022 15:04	0.06
8/8/2022 15:05	-.-
8/8/2022 15:06	-.-
8/8/2022 15:05	0.05
8/8/2022 15:06	-.-
8/8/2022 15:07	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 16:05	0.51
15/8/2022 16:06	-.-
15/8/2022 16:07	-.-
15/8/2022 16:06	0.14
15/8/2022 16:07	-.-
15/8/2022 16:08	-.-
15/8/2022 16:07	0.2
15/8/2022 16:08	-.-
15/8/2022 16:09	-.-
15/8/2022 16:08	0.07
15/8/2022 16:09	-.-
15/8/2022 16:10	-.-
15/8/2022 16:09	0.17
15/8/2022 16:10	-.-
15/8/2022 16:11	-.-
15/8/2022 16:10	0.16
15/8/2022 16:11	-.-
15/8/2022 16:12	-.-
15/8/2022 16:11	0.21
15/8/2022 16:12	-.-
15/8/2022 16:13	-.-
15/8/2022 16:12	0.11
15/8/2022 16:13	-.-
15/8/2022 16:14	-.-
15/8/2022 16:13	0.14
15/8/2022 16:14	-.-
15/8/2022 16:15	-.-
15/8/2022 16:14	0.08
15/8/2022 16:15	-.-
15/8/2022 16:16	-.-
15/8/2022 16:15	0.07
15/8/2022 16:16	-.-
15/8/2022 16:17	-.-
15/8/2022 16:16	0.11
15/8/2022 16:17	-.-
15/8/2022 16:18	-.-
15/8/2022 16:17	0.14
15/8/2022 16:18	-.-
15/8/2022 16:19	-.-
15/8/2022 16:18	0.13
15/8/2022 16:19	-.-
15/8/2022 16:20	-.-
15/8/2022 16:19	0.13

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 11:14	0.04
11/8/2022 11:15	-.-
11/8/2022 11:15	-.-
11/8/2022 11:15	0.05
11/8/2022 11:16	-.-
11/8/2022 11:16	-.-
11/8/2022 11:16	0.05
11/8/2022 11:17	-.-
11/8/2022 11:17	-.-
11/8/2022 11:17	0.05
11/8/2022 11:18	-.-
11/8/2022 11:18	-.-
11/8/2022 11:18	0.04
11/8/2022 11:19	-.-
11/8/2022 11:19	-.-
11/8/2022 11:19	0.04
11/8/2022 11:20	-.-
11/8/2022 11:20	-.-
11/8/2022 11:20	0.05
11/8/2022 11:21	-.-
11/8/2022 11:21	-.-
11/8/2022 11:21	0.05
11/8/2022 11:22	-.-
11/8/2022 11:22	-.-
11/8/2022 11:22	0.05
11/8/2022 11:23	-.-
11/8/2022 11:23	-.-
11/8/2022 11:23	0.05
11/8/2022 11:24	-.-
11/8/2022 11:24	-.-
11/8/2022 11:24	0.04
11/8/2022 11:25	-.-
11/8/2022 11:25	-.-
11/8/2022 11:25	0.05
11/8/2022 11:26	-.-
11/8/2022 11:26	-.-
11/8/2022 11:26	0.06
11/8/2022 11:27	-.-
11/8/2022 11:27	-.-
11/8/2022 11:27	0.05
11/8/2022 11:28	-.-
11/8/2022 11:28	-.-
11/8/2022 11:28	0.04

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 14:09	0.1
12/8/2022 14:10	-.-
12/8/2022 14:11	-.-
12/8/2022 14:10	0.23
12/8/2022 14:11	-.-
12/8/2022 14:12	-.-
12/8/2022 14:11	0.22
12/8/2022 14:12	-.-
12/8/2022 14:13	-.-
12/8/2022 14:12	0.29
12/8/2022 14:13	-.-
12/8/2022 14:14	-.-
12/8/2022 14:13	0.25
12/8/2022 14:14	-.-
12/8/2022 14:15	-.-
12/8/2022 14:14	0.15
12/8/2022 14:15	-.-
12/8/2022 14:16	-.-
12/8/2022 14:15	0.17
12/8/2022 14:16	-.-
12/8/2022 14:17	-.-
12/8/2022 14:16	0.17
12/8/2022 14:17	-.-
12/8/2022 14:18	-.-
12/8/2022 14:17	0.14
12/8/2022 14:18	-.-
12/8/2022 14:19	-.-
12/8/2022 14:18	0.12
12/8/2022 14:19	-.-
12/8/2022 14:20	-.-
12/8/2022 14:19	0.06
12/8/2022 14:20	-.-
12/8/2022 14:21	-.-
12/8/2022 14:20	0.18
12/8/2022 14:21	-.-
12/8/2022 14:22	-.-
12/8/2022 14:21	0.23
12/8/2022 14:22	-.-
12/8/2022 14:23	-.-
12/8/2022 14:22	0.18
12/8/2022 14:23	-.-
12/8/2022 14:24	-.-
12/8/2022 14:23	0.15

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 15:06	0.05
8/8/2022 15:07	-.-
8/8/2022 15:08	-.-
8/8/2022 15:07	0.06
8/8/2022 15:08	-.-
8/8/2022 15:09	-.-
8/8/2022 15:08	0.07
8/8/2022 15:09	-.-
8/8/2022 15:10	-.-
8/8/2022 15:09	0.06
8/8/2022 15:10	-.-
8/8/2022 15:11	-.-
8/8/2022 15:10	0.05
8/8/2022 15:11	-.-
8/8/2022 15:12	-.-
8/8/2022 15:11	0.06
8/8/2022 15:12	-.-
8/8/2022 15:13	-.-
8/8/2022 15:12	0.11
8/8/2022 15:13	-.-
8/8/2022 15:14	-.-
8/8/2022 15:13	0.05
8/8/2022 15:14	-.-
8/8/2022 15:15	-.-
8/8/2022 15:14	0.05
8/8/2022 15:15	-.-
8/8/2022 15:16	-.-
8/8/2022 15:15	0.04
8/8/2022 15:16	-.-
8/8/2022 15:17	-.-
8/8/2022 15:16	0.06
8/8/2022 15:17	-.-
8/8/2022 15:18	-.-
8/8/2022 15:17	0.06
8/8/2022 15:18	-.-
8/8/2022 15:19	-.-
8/8/2022 15:18	0.05
8/8/2022 15:19	-.-
8/8/2022 15:20	-.-
8/8/2022 15:19	0.05
8/8/2022 15:20	-.-
8/8/2022 15:21	-.-
8/8/2022 15:20	0.06

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 16:20	-.-
15/8/2022 16:21	-.-
15/8/2022 16:20	0.11
15/8/2022 16:21	-.-
15/8/2022 16:22	-.-
15/8/2022 16:21	0.15
15/8/2022 16:22	-.-
15/8/2022 16:23	-.-
15/8/2022 16:22	0.16
15/8/2022 16:23	-.-
15/8/2022 16:24	-.-
15/8/2022 16:23	0.17
15/8/2022 16:24	-.-
15/8/2022 16:25	-.-
15/8/2022 16:24	0.15
15/8/2022 16:25	-.-
15/8/2022 16:26	-.-
15/8/2022 16:25	0.14
15/8/2022 16:26	-.-
15/8/2022 16:27	-.-
15/8/2022 16:26	0.12
15/8/2022 16:27	-.-
15/8/2022 16:28	-.-
15/8/2022 16:27	0.25
15/8/2022 16:28	-.-
15/8/2022 16:29	-.-
15/8/2022 16:28	0.2
15/8/2022 16:29	-.-
15/8/2022 16:30	-.-
15/8/2022 16:29	0.23
15/8/2022 16:30	-.-
15/8/2022 16:31	-.-
15/8/2022 16:30	0.16
15/8/2022 16:31	-.-
15/8/2022 16:32	-.-
15/8/2022 16:31	0.19
15/8/2022 16:32	-.-
15/8/2022 16:33	-.-
15/8/2022 16:32	0.19
15/8/2022 16:33	-.-
15/8/2022 16:34	-.-
15/8/2022 16:33	0.16
15/8/2022 16:34	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 11:29	-.-
11/8/2022 11:29	-.-
11/8/2022 11:29	0.04
11/8/2022 11:30	-.-
11/8/2022 11:30	-.-
11/8/2022 11:30	0.04
11/8/2022 11:31	-.-
11/8/2022 11:31	-.-
11/8/2022 11:31	0.04
11/8/2022 11:32	-.-
11/8/2022 11:32	-.-
11/8/2022 11:32	0.05
11/8/2022 11:33	-.-
11/8/2022 11:33	-.-
11/8/2022 11:33	0.05
11/8/2022 11:34	-.-
11/8/2022 11:34	-.-
11/8/2022 11:34	0.04
11/8/2022 11:35	-.-
11/8/2022 11:35	-.-
11/8/2022 11:35	0.05
11/8/2022 11:36	-.-
11/8/2022 11:36	-.-
11/8/2022 11:36	0.06
11/8/2022 11:37	-.-
11/8/2022 11:37	-.-
11/8/2022 11:37	0.06
11/8/2022 11:38	-.-
11/8/2022 11:38	-.-
11/8/2022 11:38	0.04
11/8/2022 11:39	-.-
11/8/2022 11:39	-.-
11/8/2022 11:39	0.04
11/8/2022 11:40	-.-
11/8/2022 11:40	-.-
11/8/2022 11:40	0.04
11/8/2022 11:41	-.-
11/8/2022 11:41	-.-
11/8/2022 11:41	0.05
11/8/2022 11:42	-.-
11/8/2022 11:42	-.-
11/8/2022 11:42	0.05
11/8/2022 11:43	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 14:24	-.-
12/8/2022 14:25	-.-
12/8/2022 14:24	0.08
12/8/2022 14:25	-.-
12/8/2022 14:26	-.-
12/8/2022 14:25	0.18
12/8/2022 14:26	-.-
12/8/2022 14:27	-.-
12/8/2022 14:26	0.23
12/8/2022 14:27	-.-
12/8/2022 14:28	-.-
12/8/2022 14:27	0.17
12/8/2022 14:28	-.-
12/8/2022 14:29	-.-
12/8/2022 14:28	0.26
12/8/2022 14:29	-.-
12/8/2022 14:30	-.-
12/8/2022 14:29	0.07
12/8/2022 14:30	-.-
12/8/2022 14:31	-.-
12/8/2022 14:30	0.15
12/8/2022 14:31	-.-
12/8/2022 14:32	-.-
12/8/2022 14:31	0.12
12/8/2022 14:32	-.-
12/8/2022 14:33	-.-
12/8/2022 14:32	0.26
12/8/2022 14:33	-.-
12/8/2022 14:34	-.-
12/8/2022 14:33	0.07
12/8/2022 14:34	-.-
12/8/2022 14:35	-.-
12/8/2022 14:34	0.11
12/8/2022 14:35	-.-
12/8/2022 14:36	-.-
12/8/2022 14:35	0.06
12/8/2022 14:36	-.-
12/8/2022 14:37	-.-
12/8/2022 14:36	0.28
12/8/2022 14:37	-.-
12/8/2022 14:38	-.-
12/8/2022 14:37	0.17
12/8/2022 14:38	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 15:21	-.-
8/8/2022 15:22	-.-
8/8/2022 15:21	0.05
8/8/2022 15:22	-.-
8/8/2022 15:23	-.-
8/8/2022 15:22	0.06
8/8/2022 15:23	-.-
8/8/2022 15:24	-.-
8/8/2022 15:23	0.05
8/8/2022 15:24	-.-
8/8/2022 15:25	-.-
8/8/2022 15:24	0.05
8/8/2022 15:25	-.-
8/8/2022 15:26	-.-
8/8/2022 15:25	0.05
8/8/2022 15:26	-.-
8/8/2022 15:27	-.-
8/8/2022 15:26	0.05
8/8/2022 15:27	-.-
8/8/2022 15:28	-.-
8/8/2022 15:27	0.05
8/8/2022 15:28	-.-
8/8/2022 15:29	-.-
8/8/2022 15:28	0.04
8/8/2022 15:29	-.-
8/8/2022 15:30	-.-
8/8/2022 15:29	0.05
8/8/2022 15:30	-.-
8/8/2022 15:31	-.-
8/8/2022 15:30	0.04
8/8/2022 15:31	-.-
8/8/2022 15:32	-.-
8/8/2022 15:31	0.05
8/8/2022 15:32	-.-
8/8/2022 15:33	-.-
8/8/2022 15:32	0.04
8/8/2022 15:33	-.-
8/8/2022 15:34	-.-
8/8/2022 15:33	0.04
8/8/2022 15:34	-.-
8/8/2022 15:35	-.-
8/8/2022 15:34	0.05
8/8/2022 15:35	-.-

Vibration data Station V1 15-16 Aug 2022		Vibration data Station V2 11-12 Aug 2022		Vibration data Station V3 12-13 Aug 2022		Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)
15/8/2022 16:35	-.-	11/8/2022 11:43	-.-	12/8/2022 14:39	-.-	8/8/2022 15:36	-.-
15/8/2022 16:34	0.23	11/8/2022 11:43	0.04	12/8/2022 14:38	0.26	8/8/2022 15:35	0.05
15/8/2022 16:35	-.-	11/8/2022 11:44	-.-	12/8/2022 14:39	-.-	8/8/2022 15:36	-.-
15/8/2022 16:36	-.-	11/8/2022 11:44	-.-	12/8/2022 14:40	-.-	8/8/2022 15:37	-.-
15/8/2022 16:35	0.25	11/8/2022 11:44	0.07	12/8/2022 14:39	0.08	8/8/2022 15:36	0.05
15/8/2022 16:36	-.-	11/8/2022 11:45	-.-	12/8/2022 14:40	-.-	8/8/2022 15:37	-.-
15/8/2022 16:37	-.-	11/8/2022 11:45	-.-	12/8/2022 14:41	-.-	8/8/2022 15:38	-.-
15/8/2022 16:36	0.28	11/8/2022 11:45	0.06	12/8/2022 14:40	0.14	8/8/2022 15:37	0.05
15/8/2022 16:37	-.-	11/8/2022 11:46	-.-	12/8/2022 14:41	-.-	8/8/2022 15:38	-.-
15/8/2022 16:38	-.-	11/8/2022 11:46	-.-	12/8/2022 14:42	-.-	8/8/2022 15:39	-.-
15/8/2022 16:37	0.13	11/8/2022 11:46	0.06	12/8/2022 14:41	0.22	8/8/2022 15:38	0.05
15/8/2022 16:38	-.-	11/8/2022 11:47	-.-	12/8/2022 14:42	-.-	8/8/2022 15:39	-.-
15/8/2022 16:39	-.-	11/8/2022 11:47	-.-	12/8/2022 14:43	-.-	8/8/2022 15:40	-.-
15/8/2022 16:38	0.19	11/8/2022 11:47	0.06	12/8/2022 14:42	0.18	8/8/2022 15:39	0.05
15/8/2022 16:39	-.-	11/8/2022 11:48	-.-	12/8/2022 14:43	-.-	8/8/2022 15:40	-.-
15/8/2022 16:40	-.-	11/8/2022 11:48	-.-	12/8/2022 14:44	-.-	8/8/2022 15:41	-.-
15/8/2022 16:39	0.14	11/8/2022 11:48	0.08	12/8/2022 14:43	0.07	8/8/2022 15:40	0.05
15/8/2022 16:40	-.-	11/8/2022 11:49	-.-	12/8/2022 14:44	-.-	8/8/2022 15:41	-.-
15/8/2022 16:41	-.-	11/8/2022 11:49	-.-	12/8/2022 14:45	-.-	8/8/2022 15:42	-.-
15/8/2022 16:40	0.15	11/8/2022 11:49	0.05	12/8/2022 14:44	0.18	8/8/2022 15:41	0.05
15/8/2022 16:41	-.-	11/8/2022 11:50	-.-	12/8/2022 14:45	-.-	8/8/2022 15:42	-.-
15/8/2022 16:42	-.-	11/8/2022 11:50	-.-	12/8/2022 14:46	-.-	8/8/2022 15:43	-.-
15/8/2022 16:41	0.2	11/8/2022 11:50	0.05	12/8/2022 14:45	0.23	8/8/2022 15:42	0.05
15/8/2022 16:42	-.-	11/8/2022 11:51	-.-	12/8/2022 14:46	-.-	8/8/2022 15:43	-.-
15/8/2022 16:43	-.-	11/8/2022 11:51	-.-	12/8/2022 14:47	-.-	8/8/2022 15:44	-.-
15/8/2022 16:42	0.18	11/8/2022 11:51	0.05	12/8/2022 14:46	0.2	8/8/2022 15:43	0.05
15/8/2022 16:43	-.-	11/8/2022 11:52	-.-	12/8/2022 14:47	-.-	8/8/2022 15:44	-.-
15/8/2022 16:44	-.-	11/8/2022 11:52	-.-	12/8/2022 14:48	-.-	8/8/2022 15:45	-.-
15/8/2022 16:43	0.21	11/8/2022 11:52	0.05	12/8/2022 14:47	0.35	8/8/2022 15:44	0.05
15/8/2022 16:44	-.-	11/8/2022 11:53	-.-	12/8/2022 14:48	-.-	8/8/2022 15:45	-.-
15/8/2022 16:45	-.-	11/8/2022 11:53	-.-	12/8/2022 14:49	-.-	8/8/2022 15:46	-.-
15/8/2022 16:44	0.26	11/8/2022 11:53	0.07	12/8/2022 14:48	0.37	8/8/2022 15:45	0.05
15/8/2022 16:45	-.-	11/8/2022 11:54	-.-	12/8/2022 14:49	-.-	8/8/2022 15:46	-.-
15/8/2022 16:46	-.-	11/8/2022 11:54	-.-	12/8/2022 14:50	-.-	8/8/2022 15:47	-.-
15/8/2022 16:45	0.23	11/8/2022 11:54	0.05	12/8/2022 14:49	0.07	8/8/2022 15:46	0.05
15/8/2022 16:46	-.-	11/8/2022 11:55	-.-	12/8/2022 14:50	-.-	8/8/2022 15:47	-.-
15/8/2022 16:47	-.-	11/8/2022 11:55	-.-	12/8/2022 14:51	-.-	8/8/2022 15:48	-.-
15/8/2022 16:46	0.12	11/8/2022 11:55	0.07	12/8/2022 14:50	0.09	8/8/2022 15:47	0.05
15/8/2022 16:47	-.-	11/8/2022 11:56	-.-	12/8/2022 14:51	-.-	8/8/2022 15:48	-.-
15/8/2022 16:48	-.-	11/8/2022 11:56	-.-	12/8/2022 14:52	-.-	8/8/2022 15:49	-.-
15/8/2022 16:47	0.1	11/8/2022 11:56	0.07	12/8/2022 14:51	0.16	8/8/2022 15:48	0.04
15/8/2022 16:48	-.-	11/8/2022 11:57	-.-	12/8/2022 14:52	-.-	8/8/2022 15:49	-.-
15/8/2022 16:49	-.-	11/8/2022 11:57	-.-	12/8/2022 14:53	-.-	8/8/2022 15:50	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 16:48	0.17
15/8/2022 16:49	-.-
15/8/2022 16:50	-.-
15/8/2022 16:49	0.16
15/8/2022 16:50	-.-
15/8/2022 16:51	-.-
15/8/2022 16:50	0.15
15/8/2022 16:51	-.-
15/8/2022 16:52	-.-
15/8/2022 16:51	0.31
15/8/2022 16:52	-.-
15/8/2022 16:53	-.-
15/8/2022 16:52	0.31
15/8/2022 16:53	-.-
15/8/2022 16:54	-.-
15/8/2022 16:53	0.28
15/8/2022 16:54	-.-
15/8/2022 16:55	-.-
15/8/2022 16:54	0.22
15/8/2022 16:55	-.-
15/8/2022 16:56	-.-
15/8/2022 16:55	0.28
15/8/2022 16:56	-.-
15/8/2022 16:57	-.-
15/8/2022 16:56	0.3
15/8/2022 16:57	-.-
15/8/2022 16:58	-.-
15/8/2022 16:57	0.32
15/8/2022 16:58	-.-
15/8/2022 16:59	-.-
15/8/2022 16:58	0.13
15/8/2022 16:59	-.-
15/8/2022 17:00	-.-
15/8/2022 16:59	0.2
15/8/2022 17:00	-.-
15/8/2022 17:01	-.-
15/8/2022 17:00	0.26
15/8/2022 17:01	-.-
15/8/2022 17:02	-.-
15/8/2022 17:01	0.22
15/8/2022 17:02	-.-
15/8/2022 17:03	-.-
15/8/2022 17:02	0.16

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 11:57	0.06
11/8/2022 11:58	-.-
11/8/2022 11:58	-.-
11/8/2022 11:58	0.08
11/8/2022 11:59	-.-
11/8/2022 11:59	-.-
11/8/2022 11:59	0.05
11/8/2022 12:00	-.-
11/8/2022 12:00	-.-
11/8/2022 12:00	0.05
11/8/2022 12:01	-.-
11/8/2022 12:01	-.-
11/8/2022 12:01	0.05
11/8/2022 12:02	-.-
11/8/2022 12:02	-.-
11/8/2022 12:02	0.05
11/8/2022 12:03	-.-
11/8/2022 12:03	-.-
11/8/2022 12:03	0.05
11/8/2022 12:04	-.-
11/8/2022 12:04	-.-
11/8/2022 12:04	0.04
11/8/2022 12:05	-.-
11/8/2022 12:05	-.-
11/8/2022 12:05	0.05
11/8/2022 12:06	-.-
11/8/2022 12:06	-.-
11/8/2022 12:06	0.05
11/8/2022 12:07	-.-
11/8/2022 12:07	-.-
11/8/2022 12:07	0.05
11/8/2022 12:08	-.-
11/8/2022 12:08	-.-
11/8/2022 12:08	0.04
11/8/2022 12:09	-.-
11/8/2022 12:09	-.-
11/8/2022 12:09	0.06
11/8/2022 12:10	-.-
11/8/2022 12:10	-.-
11/8/2022 12:10	0.07
11/8/2022 12:11	-.-
11/8/2022 12:11	-.-
11/8/2022 12:11	0.05

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 14:52	0.22
12/8/2022 14:53	-.-
12/8/2022 14:54	-.-
12/8/2022 14:53	0.22
12/8/2022 14:54	-.-
12/8/2022 14:55	-.-
12/8/2022 14:54	0.19
12/8/2022 14:55	-.-
12/8/2022 14:56	-.-
12/8/2022 14:55	0.19
12/8/2022 14:56	-.-
12/8/2022 14:57	-.-
12/8/2022 14:56	0.08
12/8/2022 14:57	-.-
12/8/2022 14:58	-.-
12/8/2022 14:57	0.15
12/8/2022 14:58	-.-
12/8/2022 14:59	-.-
12/8/2022 14:58	0.18
12/8/2022 14:59	-.-
12/8/2022 15:00	-.-
12/8/2022 14:59	0.07
12/8/2022 15:00	-.-
12/8/2022 15:01	-.-
12/8/2022 15:00	0.12
12/8/2022 15:01	-.-
12/8/2022 15:02	-.-
12/8/2022 15:01	0.13
12/8/2022 15:02	-.-
12/8/2022 15:03	-.-
12/8/2022 15:02	0.11
12/8/2022 15:03	-.-
12/8/2022 15:04	-.-
12/8/2022 15:03	0.14
12/8/2022 15:04	-.-
12/8/2022 15:05	-.-
12/8/2022 15:04	0.09
12/8/2022 15:05	-.-
12/8/2022 15:06	-.-
12/8/2022 15:05	0.2
12/8/2022 15:06	-.-
12/8/2022 15:07	-.-
12/8/2022 15:06	0.14

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 15:49	0.05
8/8/2022 15:50	-.-
8/8/2022 15:51	-.-
8/8/2022 15:50	0.05
8/8/2022 15:51	-.-
8/8/2022 15:52	-.-
8/8/2022 15:51	0.05
8/8/2022 15:52	-.-
8/8/2022 15:53	-.-
8/8/2022 15:52	0.04
8/8/2022 15:53	-.-
8/8/2022 15:54	-.-
8/8/2022 15:53	0.06
8/8/2022 15:54	-.-
8/8/2022 15:55	-.-
8/8/2022 15:54	0.05
8/8/2022 15:55	-.-
8/8/2022 15:56	-.-
8/8/2022 15:55	0.05
8/8/2022 15:56	-.-
8/8/2022 15:57	-.-
8/8/2022 15:56	0.06
8/8/2022 15:57	-.-
8/8/2022 15:58	-.-
8/8/2022 15:57	0.04
8/8/2022 15:58	-.-
8/8/2022 15:59	-.-
8/8/2022 15:58	0.04
8/8/2022 15:59	-.-
8/8/2022 16:00	-.-
8/8/2022 15:59	0.04
8/8/2022 16:00	-.-
8/8/2022 16:01	-.-
8/8/2022 16:00	0.04
8/8/2022 16:01	-.-
8/8/2022 16:02	-.-
8/8/2022 16:01	0.05
8/8/2022 16:02	-.-
8/8/2022 16:03	-.-
8/8/2022 16:02	0.05
8/8/2022 16:03	-.-
8/8/2022 16:04	-.-
8/8/2022 16:03	0.05

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 17:03	-.-
15/8/2022 17:04	-.-
15/8/2022 17:03	0.27
15/8/2022 17:04	-.-
15/8/2022 17:05	-.-
15/8/2022 17:04	0.13
15/8/2022 17:05	-.-
15/8/2022 17:06	-.-
15/8/2022 17:05	0.13
15/8/2022 17:06	-.-
15/8/2022 17:07	-.-
15/8/2022 17:06	0.2
15/8/2022 17:07	-.-
15/8/2022 17:08	-.-
15/8/2022 17:07	0.2
15/8/2022 17:08	-.-
15/8/2022 17:09	-.-
15/8/2022 17:08	0.25
15/8/2022 17:09	-.-
15/8/2022 17:10	-.-
15/8/2022 17:09	0.28
15/8/2022 17:10	-.-
15/8/2022 17:11	-.-
15/8/2022 17:10	0.24
15/8/2022 17:11	-.-
15/8/2022 17:12	-.-
15/8/2022 17:11	0.22
15/8/2022 17:12	-.-
15/8/2022 17:13	-.-
15/8/2022 17:12	0.2
15/8/2022 17:13	-.-
15/8/2022 17:14	-.-
15/8/2022 17:13	0.21
15/8/2022 17:14	-.-
15/8/2022 17:15	-.-
15/8/2022 17:14	0.18
15/8/2022 17:15	-.-
15/8/2022 17:16	-.-
15/8/2022 17:15	0.19
15/8/2022 17:16	-.-
15/8/2022 17:17	-.-
15/8/2022 17:16	0.11
15/8/2022 17:17	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 12:12	-.-
11/8/2022 12:12	-.-
11/8/2022 12:12	0.05
11/8/2022 12:13	-.-
11/8/2022 12:13	-.-
11/8/2022 12:13	0.06
11/8/2022 12:14	-.-
11/8/2022 12:14	-.-
11/8/2022 12:14	0.06
11/8/2022 12:15	-.-
11/8/2022 12:15	-.-
11/8/2022 12:15	0.04
11/8/2022 12:16	-.-
11/8/2022 12:16	-.-
11/8/2022 12:16	0.05
11/8/2022 12:17	-.-
11/8/2022 12:17	-.-
11/8/2022 12:17	0.05
11/8/2022 12:18	-.-
11/8/2022 12:18	-.-
11/8/2022 12:18	0.06
11/8/2022 12:19	-.-
11/8/2022 12:19	-.-
11/8/2022 12:19	0.05
11/8/2022 12:20	-.-
11/8/2022 12:20	-.-
11/8/2022 12:20	0.04
11/8/2022 12:21	-.-
11/8/2022 12:21	-.-
11/8/2022 12:21	0.05
11/8/2022 12:22	-.-
11/8/2022 12:22	-.-
11/8/2022 12:22	0.05
11/8/2022 12:23	-.-
11/8/2022 12:23	-.-
11/8/2022 12:23	0.04
11/8/2022 12:24	-.-
11/8/2022 12:24	-.-
11/8/2022 12:24	0.05
11/8/2022 12:25	-.-
11/8/2022 12:25	-.-
11/8/2022 12:25	0.04
11/8/2022 12:26	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 15:07	-.-
12/8/2022 15:08	-.-
12/8/2022 15:07	0.22
12/8/2022 15:08	-.-
12/8/2022 15:09	-.-
12/8/2022 15:08	0.15
12/8/2022 15:09	-.-
12/8/2022 15:10	-.-
12/8/2022 15:09	0.07
12/8/2022 15:10	-.-
12/8/2022 15:11	-.-
12/8/2022 15:10	0.15
12/8/2022 15:11	-.-
12/8/2022 15:12	-.-
12/8/2022 15:11	0.15
12/8/2022 15:12	-.-
12/8/2022 15:13	-.-
12/8/2022 15:12	0.05
12/8/2022 15:13	-.-
12/8/2022 15:14	-.-
12/8/2022 15:13	0.22
12/8/2022 15:14	-.-
12/8/2022 15:15	-.-
12/8/2022 15:14	0.07
12/8/2022 15:15	-.-
12/8/2022 15:16	-.-
12/8/2022 15:15	0.11
12/8/2022 15:16	-.-
12/8/2022 15:17	-.-
12/8/2022 15:16	0.17
12/8/2022 15:17	-.-
12/8/2022 15:18	-.-
12/8/2022 15:17	0.22
12/8/2022 15:18	-.-
12/8/2022 15:19	-.-
12/8/2022 15:18	0.1
12/8/2022 15:19	-.-
12/8/2022 15:20	-.-
12/8/2022 15:19	0.12
12/8/2022 15:20	-.-
12/8/2022 15:21	-.-
12/8/2022 15:20	0.09
12/8/2022 15:21	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 16:04	-.-
8/8/2022 16:05	-.-
8/8/2022 16:04	0.05
8/8/2022 16:05	-.-
8/8/2022 16:06	-.-
8/8/2022 16:05	0.06
8/8/2022 16:06	-.-
8/8/2022 16:07	-.-
8/8/2022 16:06	0.04
8/8/2022 16:07	-.-
8/8/2022 16:08	-.-
8/8/2022 16:07	0.05
8/8/2022 16:08	-.-
8/8/2022 16:09	-.-
8/8/2022 16:08	0.05
8/8/2022 16:09	-.-
8/8/2022 16:10	-.-
8/8/2022 16:09	0.04
8/8/2022 16:10	-.-
8/8/2022 16:11	-.-
8/8/2022 16:10	0.05
8/8/2022 16:11	-.-
8/8/2022 16:12	-.-
8/8/2022 16:11	0.05
8/8/2022 16:12	-.-
8/8/2022 16:13	-.-
8/8/2022 16:12	0.05
8/8/2022 16:13	-.-
8/8/2022 16:14	-.-
8/8/2022 16:13	0.04
8/8/2022 16:14	-.-
8/8/2022 16:15	-.-
8/8/2022 16:14	0.04
8/8/2022 16:15	-.-
8/8/2022 16:16	-.-
8/8/2022 16:15	0.05
8/8/2022 16:16	-.-
8/8/2022 16:17	-.-
8/8/2022 16:16	0.05
8/8/2022 16:17	-.-
8/8/2022 16:18	-.-
8/8/2022 16:17	0.06
8/8/2022 16:18	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 17:18	-.-
15/8/2022 17:17	0.25
15/8/2022 17:18	-.-
15/8/2022 17:19	-.-
15/8/2022 17:18	0.2
15/8/2022 17:19	-.-
15/8/2022 17:20	-.-
15/8/2022 17:19	0.11
15/8/2022 17:20	-.-
15/8/2022 17:21	-.-
15/8/2022 17:20	0.14
15/8/2022 17:21	-.-
15/8/2022 17:22	-.-
15/8/2022 17:21	0.17
15/8/2022 17:22	-.-
15/8/2022 17:23	-.-
15/8/2022 17:22	0.21
15/8/2022 17:23	-.-
15/8/2022 17:24	-.-
15/8/2022 17:23	0.24
15/8/2022 17:24	-.-
15/8/2022 17:25	-.-
15/8/2022 17:24	0.22
15/8/2022 17:25	-.-
15/8/2022 17:26	-.-
15/8/2022 17:25	0.22
15/8/2022 17:26	-.-
15/8/2022 17:27	-.-
15/8/2022 17:26	0.27
15/8/2022 17:27	-.-
15/8/2022 17:28	-.-
15/8/2022 17:27	0.15
15/8/2022 17:28	-.-
15/8/2022 17:29	-.-
15/8/2022 17:28	0.14
15/8/2022 17:29	-.-
15/8/2022 17:30	-.-
15/8/2022 17:29	0.15
15/8/2022 17:30	-.-
15/8/2022 17:31	-.-
15/8/2022 17:30	0.21
15/8/2022 17:31	-.-
15/8/2022 17:32	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 12:26	-.-
11/8/2022 12:26	0.06
11/8/2022 12:27	-.-
11/8/2022 12:27	-.-
11/8/2022 12:27	0.05
11/8/2022 12:28	-.-
11/8/2022 12:28	-.-
11/8/2022 12:28	0.04
11/8/2022 12:29	-.-
11/8/2022 12:29	-.-
11/8/2022 12:29	0.05
11/8/2022 12:30	-.-
11/8/2022 12:30	-.-
11/8/2022 12:30	0.06
11/8/2022 12:31	-.-
11/8/2022 12:31	-.-
11/8/2022 12:31	0.05
11/8/2022 12:32	-.-
11/8/2022 12:32	-.-
11/8/2022 12:32	0.07
11/8/2022 12:33	-.-
11/8/2022 12:33	-.-
11/8/2022 12:33	0.05
11/8/2022 12:34	-.-
11/8/2022 12:34	-.-
11/8/2022 12:34	0.07
11/8/2022 12:35	-.-
11/8/2022 12:35	-.-
11/8/2022 12:35	0.05
11/8/2022 12:36	-.-
11/8/2022 12:36	-.-
11/8/2022 12:36	0.05
11/8/2022 12:37	-.-
11/8/2022 12:37	-.-
11/8/2022 12:37	0.04
11/8/2022 12:38	-.-
11/8/2022 12:38	-.-
11/8/2022 12:38	0.06
11/8/2022 12:39	-.-
11/8/2022 12:39	-.-
11/8/2022 12:39	0.05
11/8/2022 12:40	-.-
11/8/2022 12:40	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 15:22	-.-
12/8/2022 15:21	0.1
12/8/2022 15:22	-.-
12/8/2022 15:23	-.-
12/8/2022 15:22	0.22
12/8/2022 15:23	-.-
12/8/2022 15:24	-.-
12/8/2022 15:23	0.08
12/8/2022 15:24	-.-
12/8/2022 15:25	-.-
12/8/2022 15:24	0.17
12/8/2022 15:25	-.-
12/8/2022 15:26	-.-
12/8/2022 15:25	0.13
12/8/2022 15:26	-.-
12/8/2022 15:27	-.-
12/8/2022 15:26	0.11
12/8/2022 15:27	-.-
12/8/2022 15:28	-.-
12/8/2022 15:27	0.1
12/8/2022 15:28	-.-
12/8/2022 15:29	-.-
12/8/2022 15:28	0.12
12/8/2022 15:29	-.-
12/8/2022 15:30	-.-
12/8/2022 15:29	0.16
12/8/2022 15:30	-.-
12/8/2022 15:31	-.-
12/8/2022 15:30	0.12
12/8/2022 15:31	-.-
12/8/2022 15:32	-.-
12/8/2022 15:31	0.2
12/8/2022 15:32	-.-
12/8/2022 15:33	-.-
12/8/2022 15:32	0.07
12/8/2022 15:33	-.-
12/8/2022 15:34	-.-
12/8/2022 15:33	0.18
12/8/2022 15:34	-.-
12/8/2022 15:35	-.-
12/8/2022 15:34	0.16
12/8/2022 15:35	-.-
12/8/2022 15:36	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 16:19	-.-
8/8/2022 16:18	0.05
8/8/2022 16:19	-.-
8/8/2022 16:20	-.-
8/8/2022 16:19	0.05
8/8/2022 16:20	-.-
8/8/2022 16:21	-.-
8/8/2022 16:20	0.05
8/8/2022 16:21	-.-
8/8/2022 16:22	-.-
8/8/2022 16:21	0.05
8/8/2022 16:22	-.-
8/8/2022 16:23	-.-
8/8/2022 16:22	0.05
8/8/2022 16:23	-.-
8/8/2022 16:24	-.-
8/8/2022 16:23	0.06
8/8/2022 16:24	-.-
8/8/2022 16:25	-.-
8/8/2022 16:24	0.06
8/8/2022 16:25	-.-
8/8/2022 16:26	-.-
8/8/2022 16:25	0.05
8/8/2022 16:26	-.-
8/8/2022 16:27	-.-
8/8/2022 16:26	0.05
8/8/2022 16:27	-.-
8/8/2022 16:28	-.-
8/8/2022 16:27	0.09
8/8/2022 16:28	-.-
8/8/2022 16:29	-.-
8/8/2022 16:28	0.07
8/8/2022 16:29	-.-
8/8/2022 16:30	-.-
8/8/2022 16:29	0.05
8/8/2022 16:30	-.-
8/8/2022 16:31	-.-
8/8/2022 16:30	0.04
8/8/2022 16:31	-.-
8/8/2022 16:32	-.-
8/8/2022 16:31	0.05
8/8/2022 16:32	-.-
8/8/2022 16:33	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 17:31	0.19
15/8/2022 17:32	-.-
15/8/2022 17:33	-.-
15/8/2022 17:32	0.13
15/8/2022 17:33	-.-
15/8/2022 17:34	-.-
15/8/2022 17:33	0.18
15/8/2022 17:34	-.-
15/8/2022 17:35	-.-
15/8/2022 17:34	0.1
15/8/2022 17:35	-.-
15/8/2022 17:36	-.-
15/8/2022 17:35	0.1
15/8/2022 17:36	-.-
15/8/2022 17:37	-.-
15/8/2022 17:36	0.1
15/8/2022 17:37	-.-
15/8/2022 17:38	-.-
15/8/2022 17:37	0.11
15/8/2022 17:38	-.-
15/8/2022 17:39	-.-
15/8/2022 17:38	0.08
15/8/2022 17:39	-.-
15/8/2022 17:40	-.-
15/8/2022 17:39	0.18
15/8/2022 17:40	-.-
15/8/2022 17:41	-.-
15/8/2022 17:40	0.1
15/8/2022 17:41	-.-
15/8/2022 17:42	-.-
15/8/2022 17:41	11.89
15/8/2022 17:42	-.-
15/8/2022 17:43	-.-
15/8/2022 17:42	0.1
15/8/2022 17:43	-.-
15/8/2022 17:44	-.-
15/8/2022 17:43	0.17
15/8/2022 17:44	-.-
15/8/2022 17:45	-.-
15/8/2022 17:44	0.16
15/8/2022 17:45	-.-
15/8/2022 17:46	-.-
15/8/2022 17:45	27.82

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 12:40	0.08
11/8/2022 12:41	-.-
11/8/2022 12:41	-.-
11/8/2022 12:41	0.05
11/8/2022 12:42	-.-
11/8/2022 12:42	-.-
11/8/2022 12:42	0.06
11/8/2022 12:43	-.-
11/8/2022 12:43	-.-
11/8/2022 12:43	0.05
11/8/2022 12:44	-.-
11/8/2022 12:44	-.-
11/8/2022 12:44	0.05
11/8/2022 12:45	-.-
11/8/2022 12:45	-.-
11/8/2022 12:45	0.06
11/8/2022 12:46	-.-
11/8/2022 12:46	-.-
11/8/2022 12:46	0.09
11/8/2022 12:47	-.-
11/8/2022 12:47	-.-
11/8/2022 12:47	0.06
11/8/2022 12:48	-.-
11/8/2022 12:48	-.-
11/8/2022 12:48	0.05
11/8/2022 12:49	-.-
11/8/2022 12:49	-.-
11/8/2022 12:49	0.05
11/8/2022 12:50	-.-
11/8/2022 12:50	-.-
11/8/2022 12:50	0.05
11/8/2022 12:51	-.-
11/8/2022 12:51	-.-
11/8/2022 12:51	0.12
11/8/2022 12:52	-.-
11/8/2022 12:52	-.-
11/8/2022 12:52	0.05
11/8/2022 12:53	-.-
11/8/2022 12:53	-.-
11/8/2022 12:53	0.06
11/8/2022 12:54	-.-
11/8/2022 12:54	-.-
11/8/2022 12:54	0.06

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 15:35	0.14
12/8/2022 15:36	-.-
12/8/2022 15:37	-.-
12/8/2022 15:36	0.22
12/8/2022 15:37	-.-
12/8/2022 15:38	-.-
12/8/2022 15:37	0.07
12/8/2022 15:38	-.-
12/8/2022 15:39	-.-
12/8/2022 15:38	0.2
12/8/2022 15:39	-.-
12/8/2022 15:40	-.-
12/8/2022 15:39	0.09
12/8/2022 15:40	-.-
12/8/2022 15:41	-.-
12/8/2022 15:40	0.19
12/8/2022 15:41	-.-
12/8/2022 15:42	-.-
12/8/2022 15:41	0.14
12/8/2022 15:42	-.-
12/8/2022 15:43	-.-
12/8/2022 15:42	0.26
12/8/2022 15:43	-.-
12/8/2022 15:44	-.-
12/8/2022 15:43	0.2
12/8/2022 15:44	-.-
12/8/2022 15:45	-.-
12/8/2022 15:44	0.06
12/8/2022 15:45	-.-
12/8/2022 15:46	-.-
12/8/2022 15:45	0.11
12/8/2022 15:46	-.-
12/8/2022 15:47	-.-
12/8/2022 15:46	0.06
12/8/2022 15:47	-.-
12/8/2022 15:48	-.-
12/8/2022 15:47	0.19
12/8/2022 15:48	-.-
12/8/2022 15:49	-.-
12/8/2022 15:48	0.11
12/8/2022 15:49	-.-
12/8/2022 15:50	-.-
12/8/2022 15:49	0.25

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 16:32	0.04
8/8/2022 16:33	-.-
8/8/2022 16:34	-.-
8/8/2022 16:33	0.04
8/8/2022 16:34	-.-
8/8/2022 16:35	-.-
8/8/2022 16:34	0.04
8/8/2022 16:35	-.-
8/8/2022 16:36	-.-
8/8/2022 16:35	0.04
8/8/2022 16:36	-.-
8/8/2022 16:37	-.-
8/8/2022 16:36	0.04
8/8/2022 16:37	-.-
8/8/2022 16:38	-.-
8/8/2022 16:37	0.05
8/8/2022 16:38	-.-
8/8/2022 16:39	-.-
8/8/2022 16:38	0.05
8/8/2022 16:39	-.-
8/8/2022 16:40	-.-
8/8/2022 16:39	0.04
8/8/2022 16:40	-.-
8/8/2022 16:41	-.-
8/8/2022 16:40	0.04
8/8/2022 16:41	-.-
8/8/2022 16:42	-.-
8/8/2022 16:41	0.05
8/8/2022 16:42	-.-
8/8/2022 16:43	-.-
8/8/2022 16:42	0.05
8/8/2022 16:43	-.-
8/8/2022 16:44	-.-
8/8/2022 16:43	0.05
8/8/2022 16:44	-.-
8/8/2022 16:45	-.-
8/8/2022 16:44	0.04
8/8/2022 16:45	-.-
8/8/2022 16:46	-.-
8/8/2022 16:45	0.04
8/8/2022 16:46	-.-
8/8/2022 16:47	-.-
8/8/2022 16:46	0.05

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 17:46	-.-
15/8/2022 17:47	-.-
15/8/2022 17:46	0.23
15/8/2022 17:47	-.-
15/8/2022 17:48	-.-
15/8/2022 17:47	0.16
15/8/2022 17:48	-.-
15/8/2022 17:49	-.-
15/8/2022 17:48	3.77
15/8/2022 17:49	-.-
15/8/2022 17:50	-.-
15/8/2022 17:49	0.16
15/8/2022 17:50	-.-
15/8/2022 17:51	-.-
15/8/2022 17:50	0.14
15/8/2022 17:51	-.-
15/8/2022 17:52	-.-
15/8/2022 17:51	57.3
15/8/2022 17:52	-.-
15/8/2022 17:53	-.-
15/8/2022 17:52	0.1
15/8/2022 17:53	-.-
15/8/2022 17:54	-.-
15/8/2022 17:53	0.11
15/8/2022 17:54	-.-
15/8/2022 17:55	-.-
15/8/2022 17:54	0.15
15/8/2022 17:55	-.-
15/8/2022 17:56	-.-
15/8/2022 17:55	0.1
15/8/2022 17:56	-.-
15/8/2022 17:57	-.-
15/8/2022 17:56	0.14
15/8/2022 17:57	-.-
15/8/2022 17:58	-.-
15/8/2022 17:57	0.56
15/8/2022 17:58	-.-
15/8/2022 17:59	-.-
15/8/2022 17:58	0.3
15/8/2022 17:59	-.-
15/8/2022 18:00	-.-
15/8/2022 17:59	0.24
15/8/2022 18:00	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 12:55	-.-
11/8/2022 12:55	-.-
11/8/2022 12:55	0.06
11/8/2022 12:56	-.-
11/8/2022 12:56	-.-
11/8/2022 12:56	0.04
11/8/2022 12:57	-.-
11/8/2022 12:57	-.-
11/8/2022 12:57	0.05
11/8/2022 12:58	-.-
11/8/2022 12:58	-.-
11/8/2022 12:58	0.06
11/8/2022 12:59	-.-
11/8/2022 12:59	-.-
11/8/2022 12:59	0.05
11/8/2022 13:00	-.-
11/8/2022 13:00	-.-
11/8/2022 13:00	0.06
11/8/2022 13:01	-.-
11/8/2022 13:01	-.-
11/8/2022 13:01	0.06
11/8/2022 13:02	-.-
11/8/2022 13:02	-.-
11/8/2022 13:02	0.05
11/8/2022 13:03	-.-
11/8/2022 13:03	-.-
11/8/2022 13:03	0.05
11/8/2022 13:04	-.-
11/8/2022 13:04	-.-
11/8/2022 13:04	0.04
11/8/2022 13:05	-.-
11/8/2022 13:05	-.-
11/8/2022 13:05	0.07
11/8/2022 13:06	-.-
11/8/2022 13:06	-.-
11/8/2022 13:06	0.05
11/8/2022 13:07	-.-
11/8/2022 13:07	-.-
11/8/2022 13:07	0.04
11/8/2022 13:08	-.-
11/8/2022 13:08	-.-
11/8/2022 13:08	0.05
11/8/2022 13:09	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 15:50	-.-
12/8/2022 15:51	-.-
12/8/2022 15:50	0.2
12/8/2022 15:51	-.-
12/8/2022 15:52	-.-
12/8/2022 15:51	0.09
12/8/2022 15:52	-.-
12/8/2022 15:53	-.-
12/8/2022 15:52	0.09
12/8/2022 15:53	-.-
12/8/2022 15:54	-.-
12/8/2022 15:53	0.07
12/8/2022 15:54	-.-
12/8/2022 15:55	-.-
12/8/2022 15:54	0.23
12/8/2022 15:55	-.-
12/8/2022 15:56	-.-
12/8/2022 15:55	0.09
12/8/2022 15:56	-.-
12/8/2022 15:57	-.-
12/8/2022 15:56	0.23
12/8/2022 15:57	-.-
12/8/2022 15:58	-.-
12/8/2022 15:57	0.08
12/8/2022 15:58	-.-
12/8/2022 15:59	-.-
12/8/2022 15:58	0.42
12/8/2022 15:59	-.-
12/8/2022 16:00	-.-
12/8/2022 15:59	0.1
12/8/2022 16:00	-.-
12/8/2022 16:01	-.-
12/8/2022 16:00	0.07
12/8/2022 16:01	-.-
12/8/2022 16:02	-.-
12/8/2022 16:01	0.11
12/8/2022 16:02	-.-
12/8/2022 16:03	-.-
12/8/2022 16:02	0.18
12/8/2022 16:03	-.-
12/8/2022 16:04	-.-
12/8/2022 16:03	0.29
12/8/2022 16:04	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 16:47	-.-
8/8/2022 16:48	-.-
8/8/2022 16:47	0.04
8/8/2022 16:48	-.-
8/8/2022 16:49	-.-
8/8/2022 16:48	0.05
8/8/2022 16:49	-.-
8/8/2022 16:50	-.-
8/8/2022 16:49	0.05
8/8/2022 16:50	-.-
8/8/2022 16:51	-.-
8/8/2022 16:50	0.05
8/8/2022 16:51	-.-
8/8/2022 16:52	-.-
8/8/2022 16:51	0.05
8/8/2022 16:52	-.-
8/8/2022 16:53	-.-
8/8/2022 16:52	0.05
8/8/2022 16:53	-.-
8/8/2022 16:54	-.-
8/8/2022 16:53	0.05
8/8/2022 16:54	-.-
8/8/2022 16:55	-.-
8/8/2022 16:54	0.05
8/8/2022 16:55	-.-
8/8/2022 16:56	-.-
8/8/2022 16:55	0.05
8/8/2022 16:56	-.-
8/8/2022 16:57	-.-
8/8/2022 16:56	0.05
8/8/2022 16:57	-.-
8/8/2022 16:58	-.-
8/8/2022 16:57	0.07
8/8/2022 16:58	-.-
8/8/2022 16:59	-.-
8/8/2022 16:58	0.07
8/8/2022 16:59	-.-
8/8/2022 17:00	-.-
8/8/2022 16:59	0.05
8/8/2022 17:00	-.-
8/8/2022 17:01	-.-
8/8/2022 17:00	0.05
8/8/2022 17:01	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 18:01	-.-
15/8/2022 18:00	0.29
15/8/2022 18:01	-.-
15/8/2022 18:02	-.-
15/8/2022 18:01	0.68
15/8/2022 18:02	-.-
15/8/2022 18:03	-.-
15/8/2022 18:02	0.2
15/8/2022 18:03	-.-
15/8/2022 18:04	-.-
15/8/2022 18:03	0.16
15/8/2022 18:04	-.-
15/8/2022 18:05	-.-
15/8/2022 18:04	0.19
15/8/2022 18:05	-.-
15/8/2022 18:06	-.-
15/8/2022 18:05	0.14
15/8/2022 18:06	-.-
15/8/2022 18:07	-.-
15/8/2022 18:06	0.21
15/8/2022 18:07	-.-
15/8/2022 18:08	-.-
15/8/2022 18:07	0.37
15/8/2022 18:08	-.-
15/8/2022 18:09	-.-
15/8/2022 18:08	0.11
15/8/2022 18:09	-.-
15/8/2022 18:10	-.-
15/8/2022 18:09	0.25
15/8/2022 18:10	-.-
15/8/2022 18:11	-.-
15/8/2022 18:10	0.22
15/8/2022 18:11	-.-
15/8/2022 18:12	-.-
15/8/2022 18:11	0.21
15/8/2022 18:12	-.-
15/8/2022 18:13	-.-
15/8/2022 18:12	0.19
15/8/2022 18:13	-.-
15/8/2022 18:14	-.-
15/8/2022 18:13	0.31
15/8/2022 18:14	-.-
15/8/2022 18:15	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 13:09	-.-
11/8/2022 13:09	0.04
11/8/2022 13:10	-.-
11/8/2022 13:10	-.-
11/8/2022 13:10	0.04
11/8/2022 13:11	-.-
11/8/2022 13:11	-.-
11/8/2022 13:11	0.04
11/8/2022 13:12	-.-
11/8/2022 13:12	-.-
11/8/2022 13:12	0.05
11/8/2022 13:13	-.-
11/8/2022 13:13	-.-
11/8/2022 13:13	0.05
11/8/2022 13:14	-.-
11/8/2022 13:14	-.-
11/8/2022 13:14	0.05
11/8/2022 13:15	-.-
11/8/2022 13:15	-.-
11/8/2022 13:15	0.05
11/8/2022 13:16	-.-
11/8/2022 13:16	-.-
11/8/2022 13:16	0.05
11/8/2022 13:17	-.-
11/8/2022 13:17	-.-
11/8/2022 13:17	0.05
11/8/2022 13:18	-.-
11/8/2022 13:18	-.-
11/8/2022 13:18	0.04
11/8/2022 13:19	-.-
11/8/2022 13:19	-.-
11/8/2022 13:19	0.05
11/8/2022 13:20	-.-
11/8/2022 13:20	-.-
11/8/2022 13:20	0.04
11/8/2022 13:21	-.-
11/8/2022 13:21	-.-
11/8/2022 13:21	0.05
11/8/2022 13:22	-.-
11/8/2022 13:22	-.-
11/8/2022 13:22	0.06
11/8/2022 13:23	-.-
11/8/2022 13:23	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 16:05	-.-
12/8/2022 16:04	0.13
12/8/2022 16:05	-.-
12/8/2022 16:06	-.-
12/8/2022 16:05	0.22
12/8/2022 16:06	-.-
12/8/2022 16:07	-.-
12/8/2022 16:06	0.09
12/8/2022 16:07	-.-
12/8/2022 16:08	-.-
12/8/2022 16:07	0.24
12/8/2022 16:08	-.-
12/8/2022 16:09	-.-
12/8/2022 16:08	0.07
12/8/2022 16:09	-.-
12/8/2022 16:10	-.-
12/8/2022 16:09	0.1
12/8/2022 16:10	-.-
12/8/2022 16:11	-.-
12/8/2022 16:10	0.12
12/8/2022 16:11	-.-
12/8/2022 16:12	-.-
12/8/2022 16:11	0.1
12/8/2022 16:12	-.-
12/8/2022 16:13	-.-
12/8/2022 16:12	0.37
12/8/2022 16:13	-.-
12/8/2022 16:14	-.-
12/8/2022 16:13	0.13
12/8/2022 16:14	-.-
12/8/2022 16:15	-.-
12/8/2022 16:14	0.18
12/8/2022 16:15	-.-
12/8/2022 16:16	-.-
12/8/2022 16:15	0.1
12/8/2022 16:16	-.-
12/8/2022 16:17	-.-
12/8/2022 16:16	0.06
12/8/2022 16:17	-.-
12/8/2022 16:18	-.-
12/8/2022 16:17	0.14
12/8/2022 16:18	-.-
12/8/2022 16:19	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 17:02	-.-
8/8/2022 17:01	0.05
8/8/2022 17:02	-.-
8/8/2022 17:03	-.-
8/8/2022 17:02	0.05
8/8/2022 17:03	-.-
8/8/2022 17:04	-.-
8/8/2022 17:03	0.05
8/8/2022 17:04	-.-
8/8/2022 17:05	-.-
8/8/2022 17:04	0.06
8/8/2022 17:05	-.-
8/8/2022 17:06	-.-
8/8/2022 17:05	0.06
8/8/2022 17:06	-.-
8/8/2022 17:07	-.-
8/8/2022 17:06	0.05
8/8/2022 17:07	-.-
8/8/2022 17:08	-.-
8/8/2022 17:07	0.04
8/8/2022 17:08	-.-
8/8/2022 17:09	-.-
8/8/2022 17:08	0.05
8/8/2022 17:09	-.-
8/8/2022 17:10	-.-
8/8/2022 17:09	0.07
8/8/2022 17:10	-.-
8/8/2022 17:11	-.-
8/8/2022 17:10	0.05
8/8/2022 17:11	-.-
8/8/2022 17:12	-.-
8/8/2022 17:11	0.05
8/8/2022 17:12	-.-
8/8/2022 17:13	-.-
8/8/2022 17:12	0.04
8/8/2022 17:13	-.-
8/8/2022 17:14	-.-
8/8/2022 17:13	0.04
8/8/2022 17:14	-.-
8/8/2022 17:15	-.-
8/8/2022 17:14	0.05
8/8/2022 17:15	-.-
8/8/2022 17:16	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 18:14	0.23
15/8/2022 18:15	-.-
15/8/2022 18:16	-.-
15/8/2022 18:15	0.15
15/8/2022 18:16	-.-
15/8/2022 18:17	-.-
15/8/2022 18:16	0.26
15/8/2022 18:17	-.-
15/8/2022 18:18	-.-
15/8/2022 18:17	0.19
15/8/2022 18:18	-.-
15/8/2022 18:19	-.-
15/8/2022 18:18	0.12
15/8/2022 18:19	-.-
15/8/2022 18:20	-.-
15/8/2022 18:19	0.3
15/8/2022 18:20	-.-
15/8/2022 18:21	-.-
15/8/2022 18:20	0.18
15/8/2022 18:21	-.-
15/8/2022 18:22	-.-
15/8/2022 18:21	0.24
15/8/2022 18:22	-.-
15/8/2022 18:23	-.-
15/8/2022 18:22	0.21
15/8/2022 18:23	-.-
15/8/2022 18:24	-.-
15/8/2022 18:23	0.13
15/8/2022 18:24	-.-
15/8/2022 18:25	-.-
15/8/2022 18:24	0.18
15/8/2022 18:25	-.-
15/8/2022 18:26	-.-
15/8/2022 18:25	0.25
15/8/2022 18:26	-.-
15/8/2022 18:27	-.-
15/8/2022 18:26	0.2
15/8/2022 18:27	-.-
15/8/2022 18:28	-.-
15/8/2022 18:27	0.26
15/8/2022 18:28	-.-
15/8/2022 18:29	-.-
15/8/2022 18:28	0.13

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 13:23	0.06
11/8/2022 13:24	-.-
11/8/2022 13:24	-.-
11/8/2022 13:24	0.09
11/8/2022 13:25	-.-
11/8/2022 13:25	-.-
11/8/2022 13:25	0.05
11/8/2022 13:26	-.-
11/8/2022 13:26	-.-
11/8/2022 13:26	0.05
11/8/2022 13:27	-.-
11/8/2022 13:27	-.-
11/8/2022 13:27	0.04
11/8/2022 13:28	-.-
11/8/2022 13:28	-.-
11/8/2022 13:28	0.05
11/8/2022 13:29	-.-
11/8/2022 13:29	-.-
11/8/2022 13:29	0.04
11/8/2022 13:30	-.-
11/8/2022 13:30	-.-
11/8/2022 13:30	0.04
11/8/2022 13:31	-.-
11/8/2022 13:31	-.-
11/8/2022 13:31	0.05
11/8/2022 13:32	-.-
11/8/2022 13:32	-.-
11/8/2022 13:32	0.04
11/8/2022 13:33	-.-
11/8/2022 13:33	-.-
11/8/2022 13:33	0.05
11/8/2022 13:34	-.-
11/8/2022 13:34	-.-
11/8/2022 13:34	0.05
11/8/2022 13:35	-.-
11/8/2022 13:35	-.-
11/8/2022 13:35	0.04
11/8/2022 13:36	-.-
11/8/2022 13:36	-.-
11/8/2022 13:36	0.06
11/8/2022 13:37	-.-
11/8/2022 13:37	-.-
11/8/2022 13:37	0.06

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 16:18	0.13
12/8/2022 16:19	-.-
12/8/2022 16:20	-.-
12/8/2022 16:19	0.22
12/8/2022 16:20	-.-
12/8/2022 16:21	-.-
12/8/2022 16:20	0.33
12/8/2022 16:21	-.-
12/8/2022 16:22	-.-
12/8/2022 16:21	0.21
12/8/2022 16:22	-.-
12/8/2022 16:23	-.-
12/8/2022 16:22	0.17
12/8/2022 16:23	-.-
12/8/2022 16:24	-.-
12/8/2022 16:23	0.06
12/8/2022 16:24	-.-
12/8/2022 16:25	-.-
12/8/2022 16:24	0.33
12/8/2022 16:25	-.-
12/8/2022 16:26	-.-
12/8/2022 16:25	0.35
12/8/2022 16:26	-.-
12/8/2022 16:27	-.-
12/8/2022 16:26	0.06
12/8/2022 16:27	-.-
12/8/2022 16:28	-.-
12/8/2022 16:27	0.13
12/8/2022 16:28	-.-
12/8/2022 16:29	-.-
12/8/2022 16:28	0.26
12/8/2022 16:29	-.-
12/8/2022 16:30	-.-
12/8/2022 16:29	0.11
12/8/2022 16:30	-.-
12/8/2022 16:31	-.-
12/8/2022 16:30	0.06
12/8/2022 16:31	-.-
12/8/2022 16:32	-.-
12/8/2022 16:31	0.12
12/8/2022 16:32	-.-
12/8/2022 16:33	-.-
12/8/2022 16:32	0.2

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 17:15	0.05
8/8/2022 17:16	-.-
8/8/2022 17:17	-.-
8/8/2022 17:16	0.04
8/8/2022 17:17	-.-
8/8/2022 17:18	-.-
8/8/2022 17:17	0.05
8/8/2022 17:18	-.-
8/8/2022 17:19	-.-
8/8/2022 17:18	0.04
8/8/2022 17:19	-.-
8/8/2022 17:20	-.-
8/8/2022 17:19	0.05
8/8/2022 17:20	-.-
8/8/2022 17:21	-.-
8/8/2022 17:20	0.05
8/8/2022 17:21	-.-
8/8/2022 17:22	-.-
8/8/2022 17:21	0.05
8/8/2022 17:22	-.-
8/8/2022 17:23	-.-
8/8/2022 17:22	0.06
8/8/2022 17:23	-.-
8/8/2022 17:24	-.-
8/8/2022 17:23	0.04
8/8/2022 17:24	-.-
8/8/2022 17:25	-.-
8/8/2022 17:24	0.05
8/8/2022 17:25	-.-
8/8/2022 17:26	-.-
8/8/2022 17:25	0.05
8/8/2022 17:26	-.-
8/8/2022 17:27	-.-
8/8/2022 17:26	0.05
8/8/2022 17:27	-.-
8/8/2022 17:28	-.-
8/8/2022 17:27	0.06
8/8/2022 17:28	-.-
8/8/2022 17:29	-.-
8/8/2022 17:28	0.06
8/8/2022 17:29	-.-
8/8/2022 17:30	-.-
8/8/2022 17:29	0.05

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 18:29	-.-
15/8/2022 18:30	-.-
15/8/2022 18:29	0.16
15/8/2022 18:30	-.-
15/8/2022 18:31	-.-
15/8/2022 18:30	0.16
15/8/2022 18:31	-.-
15/8/2022 18:32	-.-
15/8/2022 18:31	0.31
15/8/2022 18:32	-.-
15/8/2022 18:33	-.-
15/8/2022 18:32	0.09
15/8/2022 18:33	-.-
15/8/2022 18:34	-.-
15/8/2022 18:33	0.11
15/8/2022 18:34	-.-
15/8/2022 18:35	-.-
15/8/2022 18:34	0.15
15/8/2022 18:35	-.-
15/8/2022 18:36	-.-
15/8/2022 18:35	0.24
15/8/2022 18:36	-.-
15/8/2022 18:37	-.-
15/8/2022 18:36	0.14
15/8/2022 18:37	-.-
15/8/2022 18:38	-.-
15/8/2022 18:37	0.12
15/8/2022 18:38	-.-
15/8/2022 18:39	-.-
15/8/2022 18:38	0.1
15/8/2022 18:39	-.-
15/8/2022 18:40	-.-
15/8/2022 18:39	0.12
15/8/2022 18:40	-.-
15/8/2022 18:41	-.-
15/8/2022 18:40	0.1
15/8/2022 18:41	-.-
15/8/2022 18:42	-.-
15/8/2022 18:41	0.11
15/8/2022 18:42	-.-
15/8/2022 18:43	-.-
15/8/2022 18:42	0.1
15/8/2022 18:43	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 13:38	-.-
11/8/2022 13:38	-.-
11/8/2022 13:38	0.04
11/8/2022 13:39	-.-
11/8/2022 13:39	-.-
11/8/2022 13:39	0.04
11/8/2022 13:40	-.-
11/8/2022 13:40	-.-
11/8/2022 13:40	0.04
11/8/2022 13:41	-.-
11/8/2022 13:41	-.-
11/8/2022 13:41	0.05
11/8/2022 13:42	-.-
11/8/2022 13:42	-.-
11/8/2022 13:42	0.08
11/8/2022 13:43	-.-
11/8/2022 13:43	-.-
11/8/2022 13:43	0.05
11/8/2022 13:44	-.-
11/8/2022 13:44	-.-
11/8/2022 13:44	0.05
11/8/2022 13:45	-.-
11/8/2022 13:45	-.-
11/8/2022 13:45	0.05
11/8/2022 13:46	-.-
11/8/2022 13:46	-.-
11/8/2022 13:46	0.05
11/8/2022 13:47	-.-
11/8/2022 13:47	-.-
11/8/2022 13:47	0.04
11/8/2022 13:48	-.-
11/8/2022 13:48	-.-
11/8/2022 13:48	0.05
11/8/2022 13:49	-.-
11/8/2022 13:49	-.-
11/8/2022 13:49	0.04
11/8/2022 13:50	-.-
11/8/2022 13:50	-.-
11/8/2022 13:50	0.04
11/8/2022 13:51	-.-
11/8/2022 13:51	-.-
11/8/2022 13:51	0.04
11/8/2022 13:52	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 16:33	-.-
12/8/2022 16:34	-.-
12/8/2022 16:33	0.1
12/8/2022 16:34	-.-
12/8/2022 16:35	-.-
12/8/2022 16:34	0.1
12/8/2022 16:35	-.-
12/8/2022 16:36	-.-
12/8/2022 16:35	0.1
12/8/2022 16:36	-.-
12/8/2022 16:37	-.-
12/8/2022 16:36	0.23
12/8/2022 16:37	-.-
12/8/2022 16:38	-.-
12/8/2022 16:37	0.2
12/8/2022 16:38	-.-
12/8/2022 16:39	-.-
12/8/2022 16:38	0.06
12/8/2022 16:39	-.-
12/8/2022 16:40	-.-
12/8/2022 16:39	0.1
12/8/2022 16:40	-.-
12/8/2022 16:41	-.-
12/8/2022 16:40	0.31
12/8/2022 16:41	-.-
12/8/2022 16:42	-.-
12/8/2022 16:41	0.1
12/8/2022 16:42	-.-
12/8/2022 16:43	-.-
12/8/2022 16:42	0.06
12/8/2022 16:43	-.-
12/8/2022 16:44	-.-
12/8/2022 16:43	0.15
12/8/2022 16:44	-.-
12/8/2022 16:45	-.-
12/8/2022 16:44	0.07
12/8/2022 16:45	-.-
12/8/2022 16:46	-.-
12/8/2022 16:45	0.09
12/8/2022 16:46	-.-
12/8/2022 16:47	-.-
12/8/2022 16:46	0.21
12/8/2022 16:47	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 17:30	-.-
8/8/2022 17:31	-.-
8/8/2022 17:30	0.04
8/8/2022 17:31	-.-
8/8/2022 17:32	-.-
8/8/2022 17:31	0.05
8/8/2022 17:32	-.-
8/8/2022 17:33	-.-
8/8/2022 17:32	0.04
8/8/2022 17:33	-.-
8/8/2022 17:34	-.-
8/8/2022 17:33	0.05
8/8/2022 17:34	-.-
8/8/2022 17:35	-.-
8/8/2022 17:34	0.05
8/8/2022 17:35	-.-
8/8/2022 17:36	-.-
8/8/2022 17:35	0.04
8/8/2022 17:36	-.-
8/8/2022 17:37	-.-
8/8/2022 17:36	0.04
8/8/2022 17:37	-.-
8/8/2022 17:38	-.-
8/8/2022 17:37	0.05
8/8/2022 17:38	-.-
8/8/2022 17:39	-.-
8/8/2022 17:38	0.05
8/8/2022 17:39	-.-
8/8/2022 17:40	-.-
8/8/2022 17:39	0.05
8/8/2022 17:40	-.-
8/8/2022 17:41	-.-
8/8/2022 17:40	0.04
8/8/2022 17:41	-.-
8/8/2022 17:42	-.-
8/8/2022 17:41	0.05
8/8/2022 17:42	-.-
8/8/2022 17:43	-.-
8/8/2022 17:42	0.05
8/8/2022 17:43	-.-
8/8/2022 17:44	-.-
8/8/2022 17:43	0.05
8/8/2022 17:44	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 18:44	-.-
15/8/2022 18:43	0.31
15/8/2022 18:44	-.-
15/8/2022 18:45	-.-
15/8/2022 18:44	0.3
15/8/2022 18:45	-.-
15/8/2022 18:46	-.-
15/8/2022 18:45	0.09
15/8/2022 18:46	-.-
15/8/2022 18:47	-.-
15/8/2022 18:46	0.12
15/8/2022 18:47	-.-
15/8/2022 18:48	-.-
15/8/2022 18:47	0.18
15/8/2022 18:48	-.-
15/8/2022 18:49	-.-
15/8/2022 18:48	0.09
15/8/2022 18:49	-.-
15/8/2022 18:50	-.-
15/8/2022 18:49	0.14
15/8/2022 18:50	-.-
15/8/2022 18:51	-.-
15/8/2022 18:50	0.18
15/8/2022 18:51	-.-
15/8/2022 18:52	-.-
15/8/2022 18:51	0.15
15/8/2022 18:52	-.-
15/8/2022 18:53	-.-
15/8/2022 18:52	0.1
15/8/2022 18:53	-.-
15/8/2022 18:54	-.-
15/8/2022 18:53	0.16
15/8/2022 18:54	-.-
15/8/2022 18:55	-.-
15/8/2022 18:54	0.15
15/8/2022 18:55	-.-
15/8/2022 18:56	-.-
15/8/2022 18:55	0.23
15/8/2022 18:56	-.-
15/8/2022 18:57	-.-
15/8/2022 18:56	0.07
15/8/2022 18:57	-.-
15/8/2022 18:58	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 13:52	-.-
11/8/2022 13:52	0.05
11/8/2022 13:53	-.-
11/8/2022 13:53	-.-
11/8/2022 13:53	0.05
11/8/2022 13:54	-.-
11/8/2022 13:54	-.-
11/8/2022 13:54	0.05
11/8/2022 13:55	-.-
11/8/2022 13:55	-.-
11/8/2022 13:55	0.07
11/8/2022 13:56	-.-
11/8/2022 13:56	-.-
11/8/2022 13:56	0.04
11/8/2022 13:57	-.-
11/8/2022 13:57	-.-
11/8/2022 13:57	0.05
11/8/2022 13:58	-.-
11/8/2022 13:58	-.-
11/8/2022 13:58	0.05
11/8/2022 13:59	-.-
11/8/2022 13:59	-.-
11/8/2022 13:59	0.05
11/8/2022 14:00	-.-
11/8/2022 14:00	-.-
11/8/2022 14:00	0.05
11/8/2022 14:01	-.-
11/8/2022 14:01	-.-
11/8/2022 14:01	0.05
11/8/2022 14:02	-.-
11/8/2022 14:02	-.-
11/8/2022 14:02	0.04
11/8/2022 14:03	-.-
11/8/2022 14:03	-.-
11/8/2022 14:03	0.05
11/8/2022 14:04	-.-
11/8/2022 14:04	-.-
11/8/2022 14:04	0.05
11/8/2022 14:05	-.-
11/8/2022 14:05	-.-
11/8/2022 14:05	0.04
11/8/2022 14:06	-.-
11/8/2022 14:06	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 16:48	-.-
12/8/2022 16:47	0.27
12/8/2022 16:48	-.-
12/8/2022 16:49	-.-
12/8/2022 16:48	0.06
12/8/2022 16:49	-.-
12/8/2022 16:50	-.-
12/8/2022 16:49	0.25
12/8/2022 16:50	-.-
12/8/2022 16:51	-.-
12/8/2022 16:50	0.06
12/8/2022 16:51	-.-
12/8/2022 16:52	-.-
12/8/2022 16:51	0.2
12/8/2022 16:52	-.-
12/8/2022 16:53	-.-
12/8/2022 16:52	0.05
12/8/2022 16:53	-.-
12/8/2022 16:54	-.-
12/8/2022 16:53	0.12
12/8/2022 16:54	-.-
12/8/2022 16:55	-.-
12/8/2022 16:54	0.07
12/8/2022 16:55	-.-
12/8/2022 16:56	-.-
12/8/2022 16:55	0.1
12/8/2022 16:56	-.-
12/8/2022 16:57	-.-
12/8/2022 16:56	0.11
12/8/2022 16:57	-.-
12/8/2022 16:58	-.-
12/8/2022 16:57	0.4
12/8/2022 16:58	-.-
12/8/2022 16:59	-.-
12/8/2022 16:58	0.15
12/8/2022 16:59	-.-
12/8/2022 17:00	-.-
12/8/2022 16:59	0.23
12/8/2022 17:00	-.-
12/8/2022 17:01	-.-
12/8/2022 17:00	0.12
12/8/2022 17:01	-.-
12/8/2022 17:02	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 17:45	-.-
8/8/2022 17:44	0.05
8/8/2022 17:45	-.-
8/8/2022 17:46	-.-
8/8/2022 17:45	0.04
8/8/2022 17:46	-.-
8/8/2022 17:47	-.-
8/8/2022 17:46	0.04
8/8/2022 17:47	-.-
8/8/2022 17:48	-.-
8/8/2022 17:47	0.05
8/8/2022 17:48	-.-
8/8/2022 17:49	-.-
8/8/2022 17:48	0.05
8/8/2022 17:49	-.-
8/8/2022 17:50	-.-
8/8/2022 17:49	0.06
8/8/2022 17:50	-.-
8/8/2022 17:51	-.-
8/8/2022 17:50	0.07
8/8/2022 17:51	-.-
8/8/2022 17:52	-.-
8/8/2022 17:51	0.05
8/8/2022 17:52	-.-
8/8/2022 17:53	-.-
8/8/2022 17:52	0.06
8/8/2022 17:53	-.-
8/8/2022 17:54	-.-
8/8/2022 17:53	0.06
8/8/2022 17:54	-.-
8/8/2022 17:55	-.-
8/8/2022 17:54	0.04
8/8/2022 17:55	-.-
8/8/2022 17:56	-.-
8/8/2022 17:55	0.05
8/8/2022 17:56	-.-
8/8/2022 17:57	-.-
8/8/2022 17:56	0.05
8/8/2022 17:57	-.-
8/8/2022 17:58	-.-
8/8/2022 17:57	0.04
8/8/2022 17:58	-.-
8/8/2022 17:59	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 18:57	0.11
15/8/2022 18:58	-.-
15/8/2022 18:59	-.-
15/8/2022 18:58	0.09
15/8/2022 18:59	-.-
15/8/2022 19:00	-.-
15/8/2022 18:59	0.18
15/8/2022 19:00	-.-
15/8/2022 19:01	-.-
15/8/2022 19:00	0.09
15/8/2022 19:01	-.-
15/8/2022 19:02	-.-
15/8/2022 19:01	0.12
15/8/2022 19:02	-.-
15/8/2022 19:03	-.-
15/8/2022 19:02	0.12
15/8/2022 19:03	-.-
15/8/2022 19:04	-.-
15/8/2022 19:03	0.1
15/8/2022 19:04	-.-
15/8/2022 19:05	-.-
15/8/2022 19:04	0.12
15/8/2022 19:05	-.-
15/8/2022 19:06	-.-
15/8/2022 19:05	0.07
15/8/2022 19:06	-.-
15/8/2022 19:07	-.-
15/8/2022 19:06	0.09
15/8/2022 19:07	-.-
15/8/2022 19:08	-.-
15/8/2022 19:07	0.1
15/8/2022 19:08	-.-
15/8/2022 19:09	-.-
15/8/2022 19:08	0.08
15/8/2022 19:09	-.-
15/8/2022 19:10	-.-
15/8/2022 19:09	0.11
15/8/2022 19:10	-.-
15/8/2022 19:11	-.-
15/8/2022 19:10	0.1
15/8/2022 19:11	-.-
15/8/2022 19:12	-.-
15/8/2022 19:11	0.11

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 14:06	0.05
11/8/2022 14:07	-.-
11/8/2022 14:07	-.-
11/8/2022 14:07	0.05
11/8/2022 14:08	-.-
11/8/2022 14:08	-.-
11/8/2022 14:08	0.05
11/8/2022 14:09	-.-
11/8/2022 14:09	-.-
11/8/2022 14:09	0.04
11/8/2022 14:10	-.-
11/8/2022 14:10	-.-
11/8/2022 14:10	0.04
11/8/2022 14:11	-.-
11/8/2022 14:11	-.-
11/8/2022 14:11	0.04
11/8/2022 14:12	-.-
11/8/2022 14:12	-.-
11/8/2022 14:12	0.05
11/8/2022 14:13	-.-
11/8/2022 14:13	-.-
11/8/2022 14:13	0.05
11/8/2022 14:14	-.-
11/8/2022 14:14	-.-
11/8/2022 14:14	0.04
11/8/2022 14:15	-.-
11/8/2022 14:15	-.-
11/8/2022 14:15	0.04
11/8/2022 14:16	-.-
11/8/2022 14:16	-.-
11/8/2022 14:16	0.08
11/8/2022 14:17	-.-
11/8/2022 14:17	-.-
11/8/2022 14:17	0.05
11/8/2022 14:18	-.-
11/8/2022 14:18	-.-
11/8/2022 14:18	0.04
11/8/2022 14:19	-.-
11/8/2022 14:19	-.-
11/8/2022 14:19	0.04
11/8/2022 14:20	-.-
11/8/2022 14:20	-.-
11/8/2022 14:20	0.04

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 17:01	0.19
12/8/2022 17:02	-.-
12/8/2022 17:03	-.-
12/8/2022 17:02	0.1
12/8/2022 17:03	-.-
12/8/2022 17:04	-.-
12/8/2022 17:03	0.07
12/8/2022 17:04	-.-
12/8/2022 17:05	-.-
12/8/2022 17:04	0.22
12/8/2022 17:05	-.-
12/8/2022 17:06	-.-
12/8/2022 17:05	0.12
12/8/2022 17:06	-.-
12/8/2022 17:07	-.-
12/8/2022 17:06	0.09
12/8/2022 17:07	-.-
12/8/2022 17:08	-.-
12/8/2022 17:07	0.21
12/8/2022 17:08	-.-
12/8/2022 17:09	-.-
12/8/2022 17:08	0.24
12/8/2022 17:09	-.-
12/8/2022 17:10	-.-
12/8/2022 17:09	0.11
12/8/2022 17:10	-.-
12/8/2022 17:11	-.-
12/8/2022 17:10	0.1
12/8/2022 17:11	-.-
12/8/2022 17:12	-.-
12/8/2022 17:11	0.33
12/8/2022 17:12	-.-
12/8/2022 17:13	-.-
12/8/2022 17:12	0.22
12/8/2022 17:13	-.-
12/8/2022 17:14	-.-
12/8/2022 17:13	0.1
12/8/2022 17:14	-.-
12/8/2022 17:15	-.-
12/8/2022 17:14	0.26
12/8/2022 17:15	-.-
12/8/2022 17:16	-.-
12/8/2022 17:15	0.12

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 17:58	0.04
8/8/2022 17:59	-.-
8/8/2022 18:00	-.-
8/8/2022 17:59	0.05
8/8/2022 18:00	-.-
8/8/2022 18:01	-.-
8/8/2022 18:00	0.04
8/8/2022 18:01	-.-
8/8/2022 18:02	-.-
8/8/2022 18:01	0.05
8/8/2022 18:02	-.-
8/8/2022 18:03	-.-
8/8/2022 18:02	0.05
8/8/2022 18:03	-.-
8/8/2022 18:04	-.-
8/8/2022 18:03	0.05
8/8/2022 18:04	-.-
8/8/2022 18:05	-.-
8/8/2022 18:04	0.05
8/8/2022 18:05	-.-
8/8/2022 18:06	-.-
8/8/2022 18:05	0.05
8/8/2022 18:06	-.-
8/8/2022 18:07	-.-
8/8/2022 18:06	0.04
8/8/2022 18:07	-.-
8/8/2022 18:08	-.-
8/8/2022 18:07	0.04
8/8/2022 18:08	-.-
8/8/2022 18:09	-.-
8/8/2022 18:08	0.06
8/8/2022 18:09	-.-
8/8/2022 18:10	-.-
8/8/2022 18:09	0.05
8/8/2022 18:10	-.-
8/8/2022 18:11	-.-
8/8/2022 18:10	0.04
8/8/2022 18:11	-.-
8/8/2022 18:12	-.-
8/8/2022 18:11	0.05
8/8/2022 18:12	-.-
8/8/2022 18:13	-.-
8/8/2022 18:12	0.05

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 19:12	-.-
15/8/2022 19:13	-.-
15/8/2022 19:12	0.14
15/8/2022 19:13	-.-
15/8/2022 19:14	-.-
15/8/2022 19:13	0.11
15/8/2022 19:14	-.-
15/8/2022 19:15	-.-
15/8/2022 19:14	0.17
15/8/2022 19:15	-.-
15/8/2022 19:16	-.-
15/8/2022 19:15	0.09
15/8/2022 19:16	-.-
15/8/2022 19:17	-.-
15/8/2022 19:16	0.16
15/8/2022 19:17	-.-
15/8/2022 19:18	-.-
15/8/2022 19:17	0.11
15/8/2022 19:18	-.-
15/8/2022 19:19	-.-
15/8/2022 19:18	0.12
15/8/2022 19:19	-.-
15/8/2022 19:20	-.-
15/8/2022 19:19	0.13
15/8/2022 19:20	-.-
15/8/2022 19:21	-.-
15/8/2022 19:20	0.1
15/8/2022 19:21	-.-
15/8/2022 19:22	-.-
15/8/2022 19:21	0.1
15/8/2022 19:22	-.-
15/8/2022 19:23	-.-
15/8/2022 19:22	0.18
15/8/2022 19:23	-.-
15/8/2022 19:24	-.-
15/8/2022 19:23	0.07
15/8/2022 19:24	-.-
15/8/2022 19:25	-.-
15/8/2022 19:24	0.15
15/8/2022 19:25	-.-
15/8/2022 19:26	-.-
15/8/2022 19:25	0.09
15/8/2022 19:26	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 14:21	-.-
11/8/2022 14:21	-.-
11/8/2022 14:21	0.05
11/8/2022 14:22	-.-
11/8/2022 14:22	-.-
11/8/2022 14:22	0.06
11/8/2022 14:23	-.-
11/8/2022 14:23	-.-
11/8/2022 14:23	0.05
11/8/2022 14:24	-.-
11/8/2022 14:24	-.-
11/8/2022 14:24	0.04
11/8/2022 14:25	-.-
11/8/2022 14:25	-.-
11/8/2022 14:25	0.04
11/8/2022 14:26	-.-
11/8/2022 14:26	-.-
11/8/2022 14:26	0.05
11/8/2022 14:27	-.-
11/8/2022 14:27	-.-
11/8/2022 14:27	0.04
11/8/2022 14:28	-.-
11/8/2022 14:28	-.-
11/8/2022 14:28	0.05
11/8/2022 14:29	-.-
11/8/2022 14:29	-.-
11/8/2022 14:29	0.04
11/8/2022 14:30	-.-
11/8/2022 14:30	-.-
11/8/2022 14:30	0.05
11/8/2022 14:31	-.-
11/8/2022 14:31	-.-
11/8/2022 14:31	0.06
11/8/2022 14:32	-.-
11/8/2022 14:32	-.-
11/8/2022 14:32	0.04
11/8/2022 14:33	-.-
11/8/2022 14:33	-.-
11/8/2022 14:33	0.04
11/8/2022 14:34	-.-
11/8/2022 14:34	-.-
11/8/2022 14:34	0.05
11/8/2022 14:35	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 17:16	-.-
12/8/2022 17:17	-.-
12/8/2022 17:16	0.08
12/8/2022 17:17	-.-
12/8/2022 17:18	-.-
12/8/2022 17:17	0.07
12/8/2022 17:18	-.-
12/8/2022 17:19	-.-
12/8/2022 17:18	0.16
12/8/2022 17:19	-.-
12/8/2022 17:20	-.-
12/8/2022 17:19	0.15
12/8/2022 17:20	-.-
12/8/2022 17:21	-.-
12/8/2022 17:20	0.07
12/8/2022 17:21	-.-
12/8/2022 17:22	-.-
12/8/2022 17:21	0.16
12/8/2022 17:22	-.-
12/8/2022 17:23	-.-
12/8/2022 17:22	0.21
12/8/2022 17:23	-.-
12/8/2022 17:24	-.-
12/8/2022 17:23	0.17
12/8/2022 17:24	-.-
12/8/2022 17:25	-.-
12/8/2022 17:24	0.16
12/8/2022 17:25	-.-
12/8/2022 17:26	-.-
12/8/2022 17:25	0.14
12/8/2022 17:26	-.-
12/8/2022 17:27	-.-
12/8/2022 17:26	0.15
12/8/2022 17:27	-.-
12/8/2022 17:28	-.-
12/8/2022 17:27	0.21
12/8/2022 17:28	-.-
12/8/2022 17:29	-.-
12/8/2022 17:28	0.06
12/8/2022 17:29	-.-
12/8/2022 17:30	-.-
12/8/2022 17:29	0.07
12/8/2022 17:30	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 18:13	-.-
8/8/2022 18:14	-.-
8/8/2022 18:13	0.05
8/8/2022 18:14	-.-
8/8/2022 18:15	-.-
8/8/2022 18:14	0.04
8/8/2022 18:15	-.-
8/8/2022 18:16	-.-
8/8/2022 18:15	0.06
8/8/2022 18:16	-.-
8/8/2022 18:17	-.-
8/8/2022 18:16	0.04
8/8/2022 18:17	-.-
8/8/2022 18:18	-.-
8/8/2022 18:17	0.06
8/8/2022 18:18	-.-
8/8/2022 18:19	-.-
8/8/2022 18:18	0.05
8/8/2022 18:19	-.-
8/8/2022 18:20	-.-
8/8/2022 18:19	0.05
8/8/2022 18:20	-.-
8/8/2022 18:21	-.-
8/8/2022 18:20	0.06
8/8/2022 18:21	-.-
8/8/2022 18:22	-.-
8/8/2022 18:21	0.07
8/8/2022 18:22	-.-
8/8/2022 18:23	-.-
8/8/2022 18:22	0.04
8/8/2022 18:23	-.-
8/8/2022 18:24	-.-
8/8/2022 18:23	0.05
8/8/2022 18:24	-.-
8/8/2022 18:25	-.-
8/8/2022 18:24	0.06
8/8/2022 18:25	-.-
8/8/2022 18:26	-.-
8/8/2022 18:25	0.05
8/8/2022 18:26	-.-
8/8/2022 18:27	-.-
8/8/2022 18:26	0.05
8/8/2022 18:27	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 19:27	-.-
15/8/2022 19:26	0.11
15/8/2022 19:27	-.-
15/8/2022 19:28	-.-
15/8/2022 19:27	0.12
15/8/2022 19:28	-.-
15/8/2022 19:29	-.-
15/8/2022 19:28	0.11
15/8/2022 19:29	-.-
15/8/2022 19:30	-.-
15/8/2022 19:29	0.07
15/8/2022 19:30	-.-
15/8/2022 19:31	-.-
15/8/2022 19:30	0.1
15/8/2022 19:31	-.-
15/8/2022 19:32	-.-
15/8/2022 19:31	0.06
15/8/2022 19:32	-.-
15/8/2022 19:33	-.-
15/8/2022 19:32	0.22
15/8/2022 19:33	-.-
15/8/2022 19:34	-.-
15/8/2022 19:33	0.18
15/8/2022 19:34	-.-
15/8/2022 19:35	-.-
15/8/2022 19:34	0.1
15/8/2022 19:35	-.-
15/8/2022 19:36	-.-
15/8/2022 19:35	0.11
15/8/2022 19:36	-.-
15/8/2022 19:37	-.-
15/8/2022 19:36	0.08
15/8/2022 19:37	-.-
15/8/2022 19:38	-.-
15/8/2022 19:37	0.23
15/8/2022 19:38	-.-
15/8/2022 19:39	-.-
15/8/2022 19:38	0.08
15/8/2022 19:39	-.-
15/8/2022 19:40	-.-
15/8/2022 19:39	0.09
15/8/2022 19:40	-.-
15/8/2022 19:41	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 14:35	-.-
11/8/2022 14:35	0.04
11/8/2022 14:36	-.-
11/8/2022 14:36	-.-
11/8/2022 14:36	0.04
11/8/2022 14:37	-.-
11/8/2022 14:37	-.-
11/8/2022 14:37	0.05
11/8/2022 14:38	-.-
11/8/2022 14:38	-.-
11/8/2022 14:38	0.06
11/8/2022 14:39	-.-
11/8/2022 14:39	-.-
11/8/2022 14:39	0.04
11/8/2022 14:40	-.-
11/8/2022 14:40	-.-
11/8/2022 14:40	0.05
11/8/2022 14:41	-.-
11/8/2022 14:41	-.-
11/8/2022 14:41	0.05
11/8/2022 14:42	-.-
11/8/2022 14:42	-.-
11/8/2022 14:42	0.04
11/8/2022 14:43	-.-
11/8/2022 14:43	-.-
11/8/2022 14:43	0.05
11/8/2022 14:44	-.-
11/8/2022 14:44	-.-
11/8/2022 14:44	0.04
11/8/2022 14:45	-.-
11/8/2022 14:45	-.-
11/8/2022 14:45	0.05
11/8/2022 14:46	-.-
11/8/2022 14:46	-.-
11/8/2022 14:46	0.04
11/8/2022 14:47	-.-
11/8/2022 14:47	-.-
11/8/2022 14:47	0.05
11/8/2022 14:48	-.-
11/8/2022 14:48	-.-
11/8/2022 14:48	0.04
11/8/2022 14:49	-.-
11/8/2022 14:49	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 17:31	-.-
12/8/2022 17:30	0.1
12/8/2022 17:31	-.-
12/8/2022 17:32	-.-
12/8/2022 17:31	0.23
12/8/2022 17:32	-.-
12/8/2022 17:33	-.-
12/8/2022 17:32	0.07
12/8/2022 17:33	-.-
12/8/2022 17:34	-.-
12/8/2022 17:33	0.33
12/8/2022 17:34	-.-
12/8/2022 17:35	-.-
12/8/2022 17:34	0.26
12/8/2022 17:35	-.-
12/8/2022 17:36	-.-
12/8/2022 17:35	0.18
12/8/2022 17:36	-.-
12/8/2022 17:37	-.-
12/8/2022 17:36	0.24
12/8/2022 17:37	-.-
12/8/2022 17:38	-.-
12/8/2022 17:37	0.13
12/8/2022 17:38	-.-
12/8/2022 17:39	-.-
12/8/2022 17:38	0.07
12/8/2022 17:39	-.-
12/8/2022 17:40	-.-
12/8/2022 17:39	0.2
12/8/2022 17:40	-.-
12/8/2022 17:41	-.-
12/8/2022 17:40	0.07
12/8/2022 17:41	-.-
12/8/2022 17:42	-.-
12/8/2022 17:41	0.26
12/8/2022 17:42	-.-
12/8/2022 17:43	-.-
12/8/2022 17:42	0.12
12/8/2022 17:43	-.-
12/8/2022 17:44	-.-
12/8/2022 17:43	0.07
12/8/2022 17:44	-.-
12/8/2022 17:45	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 18:28	-.-
8/8/2022 18:27	0.04
8/8/2022 18:28	-.-
8/8/2022 18:29	-.-
8/8/2022 18:28	0.05
8/8/2022 18:29	-.-
8/8/2022 18:30	-.-
8/8/2022 18:29	0.05
8/8/2022 18:30	-.-
8/8/2022 18:31	-.-
8/8/2022 18:30	0.04
8/8/2022 18:31	-.-
8/8/2022 18:32	-.-
8/8/2022 18:31	0.05
8/8/2022 18:32	-.-
8/8/2022 18:33	-.-
8/8/2022 18:32	0.05
8/8/2022 18:33	-.-
8/8/2022 18:34	-.-
8/8/2022 18:33	0.05
8/8/2022 18:34	-.-
8/8/2022 18:35	-.-
8/8/2022 18:34	0.04
8/8/2022 18:35	-.-
8/8/2022 18:36	-.-
8/8/2022 18:35	0.04
8/8/2022 18:36	-.-
8/8/2022 18:37	-.-
8/8/2022 18:36	0.04
8/8/2022 18:37	-.-
8/8/2022 18:38	-.-
8/8/2022 18:37	0.05
8/8/2022 18:38	-.-
8/8/2022 18:39	-.-
8/8/2022 18:38	0.04
8/8/2022 18:39	-.-
8/8/2022 18:40	-.-
8/8/2022 18:39	0.05
8/8/2022 18:40	-.-
8/8/2022 18:41	-.-
8/8/2022 18:40	0.05
8/8/2022 18:41	-.-
8/8/2022 18:42	-.-

Vibration data Station V1 15-16 Aug 2022		Vibration data Station V2 11-12 Aug 2022		Vibration data Station V3 12-13 Aug 2022		Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)
15/8/2022 19:40	0.08	11/8/2022 14:49	0.05	12/8/2022 17:44	0.19	8/8/2022 18:41	0.05
15/8/2022 19:41	-.-	11/8/2022 14:50	-.-	12/8/2022 17:45	-.-	8/8/2022 18:42	-.-
15/8/2022 19:42	-.-	11/8/2022 14:50	-.-	12/8/2022 17:46	-.-	8/8/2022 18:43	-.-
15/8/2022 19:41	0.1	11/8/2022 14:50	0.05	12/8/2022 17:45	0.16	8/8/2022 18:42	0.05
15/8/2022 19:42	-.-	11/8/2022 14:51	-.-	12/8/2022 17:46	-.-	8/8/2022 18:43	-.-
15/8/2022 19:43	-.-	11/8/2022 14:51	-.-	12/8/2022 17:47	-.-	8/8/2022 18:44	-.-
15/8/2022 19:42	0.09	11/8/2022 14:51	0.04	12/8/2022 17:46	0.08	8/8/2022 18:43	0.06
15/8/2022 19:43	-.-	11/8/2022 14:52	-.-	12/8/2022 17:47	-.-	8/8/2022 18:44	-.-
15/8/2022 19:44	-.-	11/8/2022 14:52	-.-	12/8/2022 17:48	-.-	8/8/2022 18:45	-.-
15/8/2022 19:43	0.08	11/8/2022 14:52	0.04	12/8/2022 17:47	0.09	8/8/2022 18:44	0.05
15/8/2022 19:44	-.-	11/8/2022 14:53	-.-	12/8/2022 17:48	-.-	8/8/2022 18:45	-.-
15/8/2022 19:45	-.-	11/8/2022 14:53	-.-	12/8/2022 17:49	-.-	8/8/2022 18:46	-.-
15/8/2022 19:44	0.08	11/8/2022 14:53	0.04	12/8/2022 17:48	0.14	8/8/2022 18:45	0.06
15/8/2022 19:45	-.-	11/8/2022 14:54	-.-	12/8/2022 17:49	-.-	8/8/2022 18:46	-.-
15/8/2022 19:46	-.-	11/8/2022 14:54	-.-	12/8/2022 17:50	-.-	8/8/2022 18:47	-.-
15/8/2022 19:45	0.08	11/8/2022 14:54	0.04	12/8/2022 17:49	0.09	8/8/2022 18:46	0.05
15/8/2022 19:46	-.-	11/8/2022 14:55	-.-	12/8/2022 17:50	-.-	8/8/2022 18:47	-.-
15/8/2022 19:47	-.-	11/8/2022 14:55	-.-	12/8/2022 17:51	-.-	8/8/2022 18:48	-.-
15/8/2022 19:46	0.1	11/8/2022 14:55	0.04	12/8/2022 17:50	0.09	8/8/2022 18:47	0.06
15/8/2022 19:47	-.-	11/8/2022 14:56	-.-	12/8/2022 17:51	-.-	8/8/2022 18:48	-.-
15/8/2022 19:48	-.-	11/8/2022 14:56	-.-	12/8/2022 17:52	-.-	8/8/2022 18:49	-.-
15/8/2022 19:47	0.12	11/8/2022 14:56	0.05	12/8/2022 17:51	0.07	8/8/2022 18:48	0.07
15/8/2022 19:48	-.-	11/8/2022 14:57	-.-	12/8/2022 17:52	-.-	8/8/2022 18:49	-.-
15/8/2022 19:49	-.-	11/8/2022 14:57	-.-	12/8/2022 17:53	-.-	8/8/2022 18:50	-.-
15/8/2022 19:48	0.21	11/8/2022 14:57	0.04	12/8/2022 17:52	0.24	8/8/2022 18:49	0.06
15/8/2022 19:49	-.-	11/8/2022 14:58	-.-	12/8/2022 17:53	-.-	8/8/2022 18:50	-.-
15/8/2022 19:50	-.-	11/8/2022 14:58	-.-	12/8/2022 17:54	-.-	8/8/2022 18:51	-.-
15/8/2022 19:49	0.11	11/8/2022 14:58	0.04	12/8/2022 17:53	0.16	8/8/2022 18:50	0.06
15/8/2022 19:50	-.-	11/8/2022 14:59	-.-	12/8/2022 17:54	-.-	8/8/2022 18:51	-.-
15/8/2022 19:51	-.-	11/8/2022 14:59	-.-	12/8/2022 17:55	-.-	8/8/2022 18:52	-.-
15/8/2022 19:50	0.07	11/8/2022 14:59	0.04	12/8/2022 17:54	0.18	8/8/2022 18:51	0.05
15/8/2022 19:51	-.-	11/8/2022 15:00	-.-	12/8/2022 17:55	-.-	8/8/2022 18:52	-.-
15/8/2022 19:52	-.-	11/8/2022 15:00	-.-	12/8/2022 17:56	-.-	8/8/2022 18:53	-.-
15/8/2022 19:51	0.08	11/8/2022 15:00	0.04	12/8/2022 17:55	0.21	8/8/2022 18:52	0.07
15/8/2022 19:52	-.-	11/8/2022 15:01	-.-	12/8/2022 17:56	-.-	8/8/2022 18:53	-.-
15/8/2022 19:53	-.-	11/8/2022 15:01	-.-	12/8/2022 17:57	-.-	8/8/2022 18:54	-.-
15/8/2022 19:52	0.07	11/8/2022 15:01	0.04	12/8/2022 17:56	0.18	8/8/2022 18:53	0.04
15/8/2022 19:53	-.-	11/8/2022 15:02	-.-	12/8/2022 17:57	-.-	8/8/2022 18:54	-.-
15/8/2022 19:54	-.-	11/8/2022 15:02	-.-	12/8/2022 17:58	-.-	8/8/2022 18:55	-.-
15/8/2022 19:53	0.09	11/8/2022 15:02	0.05	12/8/2022 17:57	0.15	8/8/2022 18:54	0.05
15/8/2022 19:54	-.-	11/8/2022 15:03	-.-	12/8/2022 17:58	-.-	8/8/2022 18:55	-.-
15/8/2022 19:55	-.-	11/8/2022 15:03	-.-	12/8/2022 17:59	-.-	8/8/2022 18:56	-.-
15/8/2022 19:54	0.08	11/8/2022 15:03	0.05	12/8/2022 17:58	0.09	8/8/2022 18:55	0.06

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 19:55	-.-
15/8/2022 19:56	-.-
15/8/2022 19:55	0.06
15/8/2022 19:56	-.-
15/8/2022 19:57	-.-
15/8/2022 19:56	0.07
15/8/2022 19:57	-.-
15/8/2022 19:58	-.-
15/8/2022 19:57	0.12
15/8/2022 19:58	-.-
15/8/2022 19:59	-.-
15/8/2022 19:58	0.07
15/8/2022 19:59	-.-
15/8/2022 20:00	-.-
15/8/2022 19:59	0.11
15/8/2022 20:00	-.-
15/8/2022 20:01	-.-
15/8/2022 20:00	0.07
15/8/2022 20:01	-.-
15/8/2022 20:02	-.-
15/8/2022 20:01	0.18
15/8/2022 20:02	-.-
15/8/2022 20:03	-.-
15/8/2022 20:02	0.08
15/8/2022 20:03	-.-
15/8/2022 20:04	-.-
15/8/2022 20:03	0.1
15/8/2022 20:04	-.-
15/8/2022 20:05	-.-
15/8/2022 20:04	0.08
15/8/2022 20:05	-.-
15/8/2022 20:06	-.-
15/8/2022 20:05	0.07
15/8/2022 20:06	-.-
15/8/2022 20:07	-.-
15/8/2022 20:06	0.07
15/8/2022 20:07	-.-
15/8/2022 20:08	-.-
15/8/2022 20:07	0.07
15/8/2022 20:08	-.-
15/8/2022 20:09	-.-
15/8/2022 20:08	0.08
15/8/2022 20:09	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 15:04	-.-
11/8/2022 15:04	-.-
11/8/2022 15:04	0.05
11/8/2022 15:05	-.-
11/8/2022 15:05	-.-
11/8/2022 15:05	0.05
11/8/2022 15:06	-.-
11/8/2022 15:06	-.-
11/8/2022 15:06	0.05
11/8/2022 15:07	-.-
11/8/2022 15:07	-.-
11/8/2022 15:07	0.04
11/8/2022 15:08	-.-
11/8/2022 15:08	-.-
11/8/2022 15:08	0.04
11/8/2022 15:09	-.-
11/8/2022 15:09	-.-
11/8/2022 15:09	0.05
11/8/2022 15:10	-.-
11/8/2022 15:10	-.-
11/8/2022 15:10	0.05
11/8/2022 15:11	-.-
11/8/2022 15:11	-.-
11/8/2022 15:11	0.04
11/8/2022 15:12	-.-
11/8/2022 15:12	-.-
11/8/2022 15:12	0.05
11/8/2022 15:13	-.-
11/8/2022 15:13	-.-
11/8/2022 15:13	0.04
11/8/2022 15:14	-.-
11/8/2022 15:14	-.-
11/8/2022 15:14	0.05
11/8/2022 15:15	-.-
11/8/2022 15:15	-.-
11/8/2022 15:15	0.05
11/8/2022 15:16	-.-
11/8/2022 15:16	-.-
11/8/2022 15:16	0.05
11/8/2022 15:17	-.-
11/8/2022 15:17	-.-
11/8/2022 15:17	0.04
11/8/2022 15:18	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 17:59	-.-
12/8/2022 18:00	-.-
12/8/2022 17:59	0.16
12/8/2022 18:00	-.-
12/8/2022 18:01	-.-
12/8/2022 18:00	0.13
12/8/2022 18:01	-.-
12/8/2022 18:02	-.-
12/8/2022 18:01	0.12
12/8/2022 18:02	-.-
12/8/2022 18:03	-.-
12/8/2022 18:02	0.07
12/8/2022 18:03	-.-
12/8/2022 18:04	-.-
12/8/2022 18:03	0.13
12/8/2022 18:04	-.-
12/8/2022 18:05	-.-
12/8/2022 18:04	0.09
12/8/2022 18:05	-.-
12/8/2022 18:06	-.-
12/8/2022 18:05	0.19
12/8/2022 18:06	-.-
12/8/2022 18:07	-.-
12/8/2022 18:06	0.15
12/8/2022 18:07	-.-
12/8/2022 18:08	-.-
12/8/2022 18:07	0.07
12/8/2022 18:08	-.-
12/8/2022 18:09	-.-
12/8/2022 18:08	0.1
12/8/2022 18:09	-.-
12/8/2022 18:10	-.-
12/8/2022 18:09	0.19
12/8/2022 18:10	-.-
12/8/2022 18:11	-.-
12/8/2022 18:10	0.06
12/8/2022 18:11	-.-
12/8/2022 18:12	-.-
12/8/2022 18:11	0.15
12/8/2022 18:12	-.-
12/8/2022 18:13	-.-
12/8/2022 18:12	0.06
12/8/2022 18:13	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 18:56	-.-
8/8/2022 18:57	-.-
8/8/2022 18:56	0.05
8/8/2022 18:57	-.-
8/8/2022 18:58	-.-
8/8/2022 18:57	0.05
8/8/2022 18:58	-.-
8/8/2022 18:59	-.-
8/8/2022 18:58	0.04
8/8/2022 18:59	-.-
8/8/2022 19:00	-.-
8/8/2022 18:59	0.05
8/8/2022 19:00	-.-
8/8/2022 19:01	-.-
8/8/2022 19:00	0.05
8/8/2022 19:01	-.-
8/8/2022 19:02	-.-
8/8/2022 19:01	0.05
8/8/2022 19:02	-.-
8/8/2022 19:03	-.-
8/8/2022 19:02	0.05
8/8/2022 19:03	-.-
8/8/2022 19:04	-.-
8/8/2022 19:03	0.05
8/8/2022 19:04	-.-
8/8/2022 19:05	-.-
8/8/2022 19:04	0.04
8/8/2022 19:05	-.-
8/8/2022 19:06	-.-
8/8/2022 19:05	0.04
8/8/2022 19:06	-.-
8/8/2022 19:07	-.-
8/8/2022 19:06	0.04
8/8/2022 19:07	-.-
8/8/2022 19:08	-.-
8/8/2022 19:07	0.04
8/8/2022 19:08	-.-
8/8/2022 19:09	-.-
8/8/2022 19:08	0.04
8/8/2022 19:09	-.-
8/8/2022 19:10	-.-
8/8/2022 19:09	0.06
8/8/2022 19:10	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 20:10	-.-
15/8/2022 20:09	0.08
15/8/2022 20:10	-.-
15/8/2022 20:11	-.-
15/8/2022 20:10	0.08
15/8/2022 20:11	-.-
15/8/2022 20:12	-.-
15/8/2022 20:11	0.08
15/8/2022 20:12	-.-
15/8/2022 20:13	-.-
15/8/2022 20:12	0.06
15/8/2022 20:13	-.-
15/8/2022 20:14	-.-
15/8/2022 20:13	0.07
15/8/2022 20:14	-.-
15/8/2022 20:15	-.-
15/8/2022 20:14	0.08
15/8/2022 20:15	-.-
15/8/2022 20:16	-.-
15/8/2022 20:15	0.17
15/8/2022 20:16	-.-
15/8/2022 20:17	-.-
15/8/2022 20:16	0.07
15/8/2022 20:17	-.-
15/8/2022 20:18	-.-
15/8/2022 20:17	0.1
15/8/2022 20:18	-.-
15/8/2022 20:19	-.-
15/8/2022 20:18	0.12
15/8/2022 20:19	-.-
15/8/2022 20:20	-.-
15/8/2022 20:19	0.08
15/8/2022 20:20	-.-
15/8/2022 20:21	-.-
15/8/2022 20:20	0.07
15/8/2022 20:21	-.-
15/8/2022 20:22	-.-
15/8/2022 20:21	0.15
15/8/2022 20:22	-.-
15/8/2022 20:23	-.-
15/8/2022 20:22	0.08
15/8/2022 20:23	-.-
15/8/2022 20:24	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 15:18	-.-
11/8/2022 15:18	0.05
11/8/2022 15:19	-.-
11/8/2022 15:19	-.-
11/8/2022 15:19	0.05
11/8/2022 15:20	-.-
11/8/2022 15:20	-.-
11/8/2022 15:20	0.05
11/8/2022 15:21	-.-
11/8/2022 15:21	-.-
11/8/2022 15:21	0.05
11/8/2022 15:22	-.-
11/8/2022 15:22	-.-
11/8/2022 15:22	0.05
11/8/2022 15:23	-.-
11/8/2022 15:23	-.-
11/8/2022 15:23	0.06
11/8/2022 15:24	-.-
11/8/2022 15:24	-.-
11/8/2022 15:24	0.04
11/8/2022 15:25	-.-
11/8/2022 15:25	-.-
11/8/2022 15:25	0.06
11/8/2022 15:26	-.-
11/8/2022 15:26	-.-
11/8/2022 15:26	0.05
11/8/2022 15:27	-.-
11/8/2022 15:27	-.-
11/8/2022 15:27	0.06
11/8/2022 15:28	-.-
11/8/2022 15:28	-.-
11/8/2022 15:28	0.05
11/8/2022 15:29	-.-
11/8/2022 15:29	-.-
11/8/2022 15:29	0.04
11/8/2022 15:30	-.-
11/8/2022 15:30	-.-
11/8/2022 15:30	0.04
11/8/2022 15:31	-.-
11/8/2022 15:31	-.-
11/8/2022 15:31	0.05
11/8/2022 15:32	-.-
11/8/2022 15:32	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 18:14	-.-
12/8/2022 18:13	0.06
12/8/2022 18:14	-.-
12/8/2022 18:15	-.-
12/8/2022 18:14	0.12
12/8/2022 18:15	-.-
12/8/2022 18:16	-.-
12/8/2022 18:15	0.27
12/8/2022 18:16	-.-
12/8/2022 18:17	-.-
12/8/2022 18:16	0.07
12/8/2022 18:17	-.-
12/8/2022 18:18	-.-
12/8/2022 18:17	0.08
12/8/2022 18:18	-.-
12/8/2022 18:19	-.-
12/8/2022 18:18	0.07
12/8/2022 18:19	-.-
12/8/2022 18:20	-.-
12/8/2022 18:19	0.08
12/8/2022 18:20	-.-
12/8/2022 18:21	-.-
12/8/2022 18:20	0.12
12/8/2022 18:21	-.-
12/8/2022 18:22	-.-
12/8/2022 18:21	0.15
12/8/2022 18:22	-.-
12/8/2022 18:23	-.-
12/8/2022 18:22	0.12
12/8/2022 18:23	-.-
12/8/2022 18:24	-.-
12/8/2022 18:23	0.13
12/8/2022 18:24	-.-
12/8/2022 18:25	-.-
12/8/2022 18:24	0.19
12/8/2022 18:25	-.-
12/8/2022 18:26	-.-
12/8/2022 18:25	0.14
12/8/2022 18:26	-.-
12/8/2022 18:27	-.-
12/8/2022 18:26	0.25
12/8/2022 18:27	-.-
12/8/2022 18:28	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 19:11	-.-
8/8/2022 19:10	0.05
8/8/2022 19:11	-.-
8/8/2022 19:12	-.-
8/8/2022 19:11	0.05
8/8/2022 19:12	-.-
8/8/2022 19:13	-.-
8/8/2022 19:12	0.05
8/8/2022 19:13	-.-
8/8/2022 19:14	-.-
8/8/2022 19:13	0.06
8/8/2022 19:14	-.-
8/8/2022 19:15	-.-
8/8/2022 19:14	0.07
8/8/2022 19:15	-.-
8/8/2022 19:16	-.-
8/8/2022 19:15	0.06
8/8/2022 19:16	-.-
8/8/2022 19:17	-.-
8/8/2022 19:16	0.05
8/8/2022 19:17	-.-
8/8/2022 19:18	-.-
8/8/2022 19:17	0.07
8/8/2022 19:18	-.-
8/8/2022 19:19	-.-
8/8/2022 19:18	0.07
8/8/2022 19:19	-.-
8/8/2022 19:20	-.-
8/8/2022 19:19	0.07
8/8/2022 19:20	-.-
8/8/2022 19:21	-.-
8/8/2022 19:20	0.05
8/8/2022 19:21	-.-
8/8/2022 19:22	-.-
8/8/2022 19:21	0.04
8/8/2022 19:22	-.-
8/8/2022 19:23	-.-
8/8/2022 19:22	0.04
8/8/2022 19:23	-.-
8/8/2022 19:24	-.-
8/8/2022 19:23	0.04
8/8/2022 19:24	-.-
8/8/2022 19:25	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 20:23	0.07
15/8/2022 20:24	-.-
15/8/2022 20:25	-.-
15/8/2022 20:24	0.07
15/8/2022 20:25	-.-
15/8/2022 20:26	-.-
15/8/2022 20:25	0.07
15/8/2022 20:26	-.-
15/8/2022 20:27	-.-
15/8/2022 20:26	0.08
15/8/2022 20:27	-.-
15/8/2022 20:28	-.-
15/8/2022 20:27	0.11
15/8/2022 20:28	-.-
15/8/2022 20:29	-.-
15/8/2022 20:28	0.07
15/8/2022 20:29	-.-
15/8/2022 20:30	-.-
15/8/2022 20:29	0.08
15/8/2022 20:30	-.-
15/8/2022 20:31	-.-
15/8/2022 20:30	0.11
15/8/2022 20:31	-.-
15/8/2022 20:32	-.-
15/8/2022 20:31	0.1
15/8/2022 20:32	-.-
15/8/2022 20:33	-.-
15/8/2022 20:32	0.09
15/8/2022 20:33	-.-
15/8/2022 20:34	-.-
15/8/2022 20:33	0.17
15/8/2022 20:34	-.-
15/8/2022 20:35	-.-
15/8/2022 20:34	0.07
15/8/2022 20:35	-.-
15/8/2022 20:36	-.-
15/8/2022 20:35	0.06
15/8/2022 20:36	-.-
15/8/2022 20:37	-.-
15/8/2022 20:36	0.06
15/8/2022 20:37	-.-
15/8/2022 20:38	-.-
15/8/2022 20:37	0.09

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 15:32	0.05
11/8/2022 15:33	-.-
11/8/2022 15:33	-.-
11/8/2022 15:33	0.04
11/8/2022 15:34	-.-
11/8/2022 15:34	-.-
11/8/2022 15:34	0.04
11/8/2022 15:35	-.-
11/8/2022 15:35	-.-
11/8/2022 15:35	0.04
11/8/2022 15:36	-.-
11/8/2022 15:36	-.-
11/8/2022 15:36	0.04
11/8/2022 15:37	-.-
11/8/2022 15:37	-.-
11/8/2022 15:37	0.04
11/8/2022 15:38	-.-
11/8/2022 15:38	-.-
11/8/2022 15:38	0.05
11/8/2022 15:39	-.-
11/8/2022 15:39	-.-
11/8/2022 15:39	0.06
11/8/2022 15:40	-.-
11/8/2022 15:40	-.-
11/8/2022 15:40	0.04
11/8/2022 15:41	-.-
11/8/2022 15:41	-.-
11/8/2022 15:41	0.05
11/8/2022 15:42	-.-
11/8/2022 15:42	-.-
11/8/2022 15:42	0.07
11/8/2022 15:43	-.-
11/8/2022 15:43	-.-
11/8/2022 15:43	0.05
11/8/2022 15:44	-.-
11/8/2022 15:44	-.-
11/8/2022 15:44	0.05
11/8/2022 15:45	-.-
11/8/2022 15:45	-.-
11/8/2022 15:45	0.05
11/8/2022 15:46	-.-
11/8/2022 15:46	-.-
11/8/2022 15:46	0.05

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 18:27	0.17
12/8/2022 18:28	-.-
12/8/2022 18:29	-.-
12/8/2022 18:28	0.08
12/8/2022 18:29	-.-
12/8/2022 18:30	-.-
12/8/2022 18:29	0.07
12/8/2022 18:30	-.-
12/8/2022 18:31	-.-
12/8/2022 18:30	0.18
12/8/2022 18:31	-.-
12/8/2022 18:32	-.-
12/8/2022 18:31	0.14
12/8/2022 18:32	-.-
12/8/2022 18:33	-.-
12/8/2022 18:32	0.11
12/8/2022 18:33	-.-
12/8/2022 18:34	-.-
12/8/2022 18:33	0.09
12/8/2022 18:34	-.-
12/8/2022 18:35	-.-
12/8/2022 18:34	0.12
12/8/2022 18:35	-.-
12/8/2022 18:36	-.-
12/8/2022 18:35	0.32
12/8/2022 18:36	-.-
12/8/2022 18:37	-.-
12/8/2022 18:36	0.15
12/8/2022 18:37	-.-
12/8/2022 18:38	-.-
12/8/2022 18:37	0.23
12/8/2022 18:38	-.-
12/8/2022 18:39	-.-
12/8/2022 18:38	0.12
12/8/2022 18:39	-.-
12/8/2022 18:40	-.-
12/8/2022 18:39	0.06
12/8/2022 18:40	-.-
12/8/2022 18:41	-.-
12/8/2022 18:40	0.2
12/8/2022 18:41	-.-
12/8/2022 18:42	-.-
12/8/2022 18:41	0.06

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 19:24	0.05
8/8/2022 19:25	-.-
8/8/2022 19:26	-.-
8/8/2022 19:25	0.05
8/8/2022 19:26	-.-
8/8/2022 19:27	-.-
8/8/2022 19:26	0.07
8/8/2022 19:27	-.-
8/8/2022 19:28	-.-
8/8/2022 19:27	0.05
8/8/2022 19:28	-.-
8/8/2022 19:29	-.-
8/8/2022 19:28	0.05
8/8/2022 19:29	-.-
8/8/2022 19:30	-.-
8/8/2022 19:29	0.04
8/8/2022 19:30	-.-
8/8/2022 19:31	-.-
8/8/2022 19:30	0.05
8/8/2022 19:31	-.-
8/8/2022 19:32	-.-
8/8/2022 19:31	0.05
8/8/2022 19:32	-.-
8/8/2022 19:33	-.-
8/8/2022 19:32	0.05
8/8/2022 19:33	-.-
8/8/2022 19:34	-.-
8/8/2022 19:33	0.04
8/8/2022 19:34	-.-
8/8/2022 19:35	-.-
8/8/2022 19:34	0.04
8/8/2022 19:35	-.-
8/8/2022 19:36	-.-
8/8/2022 19:35	0.04
8/8/2022 19:36	-.-
8/8/2022 19:37	-.-
8/8/2022 19:36	0.05
8/8/2022 19:37	-.-
8/8/2022 19:38	-.-
8/8/2022 19:37	0.04
8/8/2022 19:38	-.-
8/8/2022 19:39	-.-
8/8/2022 19:38	0.05

Vibration data Station V1 15-16 Aug 2022		Vibration data Station V2 11-12 Aug 2022		Vibration data Station V3 12-13 Aug 2022		Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)
15/8/2022 20:38	-.-	11/8/2022 15:47	-.-	12/8/2022 18:42	-.-	8/8/2022 19:39	-.-
15/8/2022 20:39	-.-	11/8/2022 15:47	-.-	12/8/2022 18:43	-.-	8/8/2022 19:40	-.-
15/8/2022 20:38	0.06	11/8/2022 15:47	0.05	12/8/2022 18:42	0.1	8/8/2022 19:39	0.04
15/8/2022 20:39	-.-	11/8/2022 15:48	-.-	12/8/2022 18:43	-.-	8/8/2022 19:40	-.-
15/8/2022 20:40	-.-	11/8/2022 15:48	-.-	12/8/2022 18:44	-.-	8/8/2022 19:41	-.-
15/8/2022 20:39	0.06	11/8/2022 15:48	0.05	12/8/2022 18:43	0.07	8/8/2022 19:40	0.04
15/8/2022 20:40	-.-	11/8/2022 15:49	-.-	12/8/2022 18:44	-.-	8/8/2022 19:41	-.-
15/8/2022 20:41	-.-	11/8/2022 15:49	-.-	12/8/2022 18:45	-.-	8/8/2022 19:42	-.-
15/8/2022 20:40	0.07	11/8/2022 15:49	0.05	12/8/2022 18:44	0.06	8/8/2022 19:41	0.05
15/8/2022 20:41	-.-	11/8/2022 15:50	-.-	12/8/2022 18:45	-.-	8/8/2022 19:42	-.-
15/8/2022 20:42	-.-	11/8/2022 15:50	-.-	12/8/2022 18:46	-.-	8/8/2022 19:43	-.-
15/8/2022 20:41	0.09	11/8/2022 15:50	0.04	12/8/2022 18:45	0.17	8/8/2022 19:42	0.05
15/8/2022 20:42	-.-	11/8/2022 15:51	-.-	12/8/2022 18:46	-.-	8/8/2022 19:43	-.-
15/8/2022 20:43	-.-	11/8/2022 15:51	-.-	12/8/2022 18:47	-.-	8/8/2022 19:44	-.-
15/8/2022 20:42	0.07	11/8/2022 15:51	0.04	12/8/2022 18:46	0.07	8/8/2022 19:43	0.05
15/8/2022 20:43	-.-	11/8/2022 15:52	-.-	12/8/2022 18:47	-.-	8/8/2022 19:44	-.-
15/8/2022 20:44	-.-	11/8/2022 15:52	-.-	12/8/2022 18:48	-.-	8/8/2022 19:45	-.-
15/8/2022 20:43	0.07	11/8/2022 15:52	0.04	12/8/2022 18:47	0.08	8/8/2022 19:44	0.05
15/8/2022 20:44	-.-	11/8/2022 15:53	-.-	12/8/2022 18:48	-.-	8/8/2022 19:45	-.-
15/8/2022 20:45	-.-	11/8/2022 15:53	-.-	12/8/2022 18:49	-.-	8/8/2022 19:46	-.-
15/8/2022 20:44	0.09	11/8/2022 15:53	0.04	12/8/2022 18:48	0.08	8/8/2022 19:45	0.05
15/8/2022 20:45	-.-	11/8/2022 15:54	-.-	12/8/2022 18:49	-.-	8/8/2022 19:46	-.-
15/8/2022 20:46	-.-	11/8/2022 15:54	-.-	12/8/2022 18:50	-.-	8/8/2022 19:47	-.-
15/8/2022 20:45	0.1	11/8/2022 15:54	0.04	12/8/2022 18:49	0.08	8/8/2022 19:46	0.05
15/8/2022 20:46	-.-	11/8/2022 15:55	-.-	12/8/2022 18:50	-.-	8/8/2022 19:47	-.-
15/8/2022 20:47	-.-	11/8/2022 15:55	-.-	12/8/2022 18:51	-.-	8/8/2022 19:48	-.-
15/8/2022 20:46	0.08	11/8/2022 15:55	0.04	12/8/2022 18:50	0.17	8/8/2022 19:47	0.05
15/8/2022 20:47	-.-	11/8/2022 15:56	-.-	12/8/2022 18:51	-.-	8/8/2022 19:48	-.-
15/8/2022 20:48	-.-	11/8/2022 15:56	-.-	12/8/2022 18:52	-.-	8/8/2022 19:49	-.-
15/8/2022 20:47	0.17	11/8/2022 15:56	0.04	12/8/2022 18:51	0.11	8/8/2022 19:48	0.06
15/8/2022 20:48	-.-	11/8/2022 15:57	-.-	12/8/2022 18:52	-.-	8/8/2022 19:49	-.-
15/8/2022 20:49	-.-	11/8/2022 15:57	-.-	12/8/2022 18:53	-.-	8/8/2022 19:50	-.-
15/8/2022 20:48	0.1	11/8/2022 15:57	0.04	12/8/2022 18:52	0.06	8/8/2022 19:49	0.05
15/8/2022 20:49	-.-	11/8/2022 15:58	-.-	12/8/2022 18:53	-.-	8/8/2022 19:50	-.-
15/8/2022 20:50	-.-	11/8/2022 15:58	-.-	12/8/2022 18:54	-.-	8/8/2022 19:51	-.-
15/8/2022 20:49	0.11	11/8/2022 15:58	0.04	12/8/2022 18:53	0.11	8/8/2022 19:50	0.07
15/8/2022 20:50	-.-	11/8/2022 15:59	-.-	12/8/2022 18:54	-.-	8/8/2022 19:51	-.-
15/8/2022 20:51	-.-	11/8/2022 15:59	-.-	12/8/2022 18:55	-.-	8/8/2022 19:52	-.-
15/8/2022 20:50	0.07	11/8/2022 15:59	0.06	12/8/2022 18:54	0.09	8/8/2022 19:51	0.04
15/8/2022 20:51	-.-	11/8/2022 16:00	-.-	12/8/2022 18:55	-.-	8/8/2022 19:52	-.-
15/8/2022 20:52	-.-	11/8/2022 16:00	-.-	12/8/2022 18:56	-.-	8/8/2022 19:53	-.-
15/8/2022 20:51	0.07	11/8/2022 16:00	0.05	12/8/2022 18:55	0.19	8/8/2022 19:52	0.08
15/8/2022 20:52	-.-	11/8/2022 16:01	-.-	12/8/2022 18:56	-.-	8/8/2022 19:53	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 20:53	-.-
15/8/2022 20:52	0.06
15/8/2022 20:53	-.-
15/8/2022 20:54	-.-
15/8/2022 20:53	0.08
15/8/2022 20:54	-.-
15/8/2022 20:55	-.-
15/8/2022 20:54	0.28
15/8/2022 20:55	-.-
15/8/2022 20:56	-.-
15/8/2022 20:55	0.07
15/8/2022 20:56	-.-
15/8/2022 20:57	-.-
15/8/2022 20:56	0.1
15/8/2022 20:57	-.-
15/8/2022 20:58	-.-
15/8/2022 20:57	0.09
15/8/2022 20:58	-.-
15/8/2022 20:59	-.-
15/8/2022 20:58	0.06
15/8/2022 20:59	-.-
15/8/2022 21:00	-.-
15/8/2022 20:59	0.08
15/8/2022 21:00	-.-
15/8/2022 21:01	-.-
15/8/2022 21:00	0.13
15/8/2022 21:01	-.-
15/8/2022 21:02	-.-
15/8/2022 21:01	0.17
15/8/2022 21:02	-.-
15/8/2022 21:03	-.-
15/8/2022 21:02	0.05
15/8/2022 21:03	-.-
15/8/2022 21:04	-.-
15/8/2022 21:03	0.05
15/8/2022 21:04	-.-
15/8/2022 21:05	-.-
15/8/2022 21:04	0.07
15/8/2022 21:05	-.-
15/8/2022 21:06	-.-
15/8/2022 21:05	0.11
15/8/2022 21:06	-.-
15/8/2022 21:07	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 16:01	-.-
11/8/2022 16:01	0.04
11/8/2022 16:02	-.-
11/8/2022 16:02	-.-
11/8/2022 16:02	0.05
11/8/2022 16:03	-.-
11/8/2022 16:03	-.-
11/8/2022 16:03	0.05
11/8/2022 16:04	-.-
11/8/2022 16:04	-.-
11/8/2022 16:04	0.05
11/8/2022 16:05	-.-
11/8/2022 16:05	-.-
11/8/2022 16:05	0.05
11/8/2022 16:06	-.-
11/8/2022 16:06	-.-
11/8/2022 16:06	0.05
11/8/2022 16:07	-.-
11/8/2022 16:07	-.-
11/8/2022 16:07	0.04
11/8/2022 16:08	-.-
11/8/2022 16:08	-.-
11/8/2022 16:08	0.04
11/8/2022 16:09	-.-
11/8/2022 16:09	-.-
11/8/2022 16:09	0.05
11/8/2022 16:10	-.-
11/8/2022 16:10	-.-
11/8/2022 16:10	0.05
11/8/2022 16:11	-.-
11/8/2022 16:11	-.-
11/8/2022 16:11	0.05
11/8/2022 16:12	-.-
11/8/2022 16:12	-.-
11/8/2022 16:12	0.05
11/8/2022 16:13	-.-
11/8/2022 16:13	-.-
11/8/2022 16:13	0.05
11/8/2022 16:14	-.-
11/8/2022 16:14	-.-
11/8/2022 16:14	0.05
11/8/2022 16:15	-.-
11/8/2022 16:15	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 18:57	-.-
12/8/2022 18:56	0.07
12/8/2022 18:57	-.-
12/8/2022 18:58	-.-
12/8/2022 18:57	0.12
12/8/2022 18:58	-.-
12/8/2022 18:59	-.-
12/8/2022 18:58	0.21
12/8/2022 18:59	-.-
12/8/2022 19:00	-.-
12/8/2022 18:59	0.16
12/8/2022 19:00	-.-
12/8/2022 19:01	-.-
12/8/2022 19:00	0.13
12/8/2022 19:01	-.-
12/8/2022 19:02	-.-
12/8/2022 19:01	0.06
12/8/2022 19:02	-.-
12/8/2022 19:03	-.-
12/8/2022 19:02	0.17
12/8/2022 19:03	-.-
12/8/2022 19:04	-.-
12/8/2022 19:03	0.07
12/8/2022 19:04	-.-
12/8/2022 19:05	-.-
12/8/2022 19:04	0.22
12/8/2022 19:05	-.-
12/8/2022 19:06	-.-
12/8/2022 19:05	0.08
12/8/2022 19:06	-.-
12/8/2022 19:07	-.-
12/8/2022 19:06	0.14
12/8/2022 19:07	-.-
12/8/2022 19:08	-.-
12/8/2022 19:07	0.06
12/8/2022 19:08	-.-
12/8/2022 19:09	-.-
12/8/2022 19:08	0.12
12/8/2022 19:09	-.-
12/8/2022 19:10	-.-
12/8/2022 19:09	0.06
12/8/2022 19:10	-.-
12/8/2022 19:11	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 19:54	-.-
8/8/2022 19:53	0.05
8/8/2022 19:54	-.-
8/8/2022 19:55	-.-
8/8/2022 19:54	0.06
8/8/2022 19:55	-.-
8/8/2022 19:56	-.-
8/8/2022 19:55	0.04
8/8/2022 19:56	-.-
8/8/2022 19:57	-.-
8/8/2022 19:56	0.04
8/8/2022 19:57	-.-
8/8/2022 19:58	-.-
8/8/2022 19:57	0.04
8/8/2022 19:58	-.-
8/8/2022 19:59	-.-
8/8/2022 19:58	0.05
8/8/2022 19:59	-.-
8/8/2022 20:00	-.-
8/8/2022 19:59	0.04
8/8/2022 20:00	-.-
8/8/2022 20:01	-.-
8/8/2022 20:00	0.05
8/8/2022 20:01	-.-
8/8/2022 20:02	-.-
8/8/2022 20:01	0.05
8/8/2022 20:02	-.-
8/8/2022 20:03	-.-
8/8/2022 20:02	0.05
8/8/2022 20:03	-.-
8/8/2022 20:04	-.-
8/8/2022 20:03	0.05
8/8/2022 20:04	-.-
8/8/2022 20:05	-.-
8/8/2022 20:04	0.04
8/8/2022 20:05	-.-
8/8/2022 20:06	-.-
8/8/2022 20:05	0.05
8/8/2022 20:06	-.-
8/8/2022 20:07	-.-
8/8/2022 20:06	0.04
8/8/2022 20:07	-.-
8/8/2022 20:08	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 21:06	0.07
15/8/2022 21:07	-.-
15/8/2022 21:08	-.-
15/8/2022 21:07	0.06
15/8/2022 21:08	-.-
15/8/2022 21:09	-.-
15/8/2022 21:08	0.11
15/8/2022 21:09	-.-
15/8/2022 21:10	-.-
15/8/2022 21:09	0.1
15/8/2022 21:10	-.-
15/8/2022 21:11	-.-
15/8/2022 21:10	0.08
15/8/2022 21:11	-.-
15/8/2022 21:12	-.-
15/8/2022 21:11	0.1
15/8/2022 21:12	-.-
15/8/2022 21:13	-.-
15/8/2022 21:12	0.08
15/8/2022 21:13	-.-
15/8/2022 21:14	-.-
15/8/2022 21:13	0.06
15/8/2022 21:14	-.-
15/8/2022 21:15	-.-
15/8/2022 21:14	0.06
15/8/2022 21:15	-.-
15/8/2022 21:16	-.-
15/8/2022 21:15	0.08
15/8/2022 21:16	-.-
15/8/2022 21:17	-.-
15/8/2022 21:16	0.06
15/8/2022 21:17	-.-
15/8/2022 21:18	-.-
15/8/2022 21:17	0.09
15/8/2022 21:18	-.-
15/8/2022 21:19	-.-
15/8/2022 21:18	0.07
15/8/2022 21:19	-.-
15/8/2022 21:20	-.-
15/8/2022 21:19	0.07
15/8/2022 21:20	-.-
15/8/2022 21:21	-.-
15/8/2022 21:20	0.12

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 16:15	0.04
11/8/2022 16:16	-.-
11/8/2022 16:16	-.-
11/8/2022 16:16	0.04
11/8/2022 16:17	-.-
11/8/2022 16:17	-.-
11/8/2022 16:17	0.04
11/8/2022 16:18	-.-
11/8/2022 16:18	-.-
11/8/2022 16:18	0.05
11/8/2022 16:19	-.-
11/8/2022 16:19	-.-
11/8/2022 16:19	0.05
11/8/2022 16:20	-.-
11/8/2022 16:20	-.-
11/8/2022 16:20	0.05
11/8/2022 16:21	-.-
11/8/2022 16:21	-.-
11/8/2022 16:21	0.05
11/8/2022 16:22	-.-
11/8/2022 16:22	-.-
11/8/2022 16:22	0.05
11/8/2022 16:23	-.-
11/8/2022 16:23	-.-
11/8/2022 16:23	0.04
11/8/2022 16:24	-.-
11/8/2022 16:24	-.-
11/8/2022 16:24	0.05
11/8/2022 16:25	-.-
11/8/2022 16:25	-.-
11/8/2022 16:25	0.05
11/8/2022 16:26	-.-
11/8/2022 16:26	-.-
11/8/2022 16:26	0.05
11/8/2022 16:27	-.-
11/8/2022 16:27	-.-
11/8/2022 16:27	0.04
11/8/2022 16:28	-.-
11/8/2022 16:28	-.-
11/8/2022 16:28	0.05
11/8/2022 16:29	-.-
11/8/2022 16:29	-.-
11/8/2022 16:29	0.05

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 19:10	0.15
12/8/2022 19:11	-.-
12/8/2022 19:12	-.-
12/8/2022 19:11	0.27
12/8/2022 19:12	-.-
12/8/2022 19:13	-.-
12/8/2022 19:12	0.16
12/8/2022 19:13	-.-
12/8/2022 19:14	-.-
12/8/2022 19:13	0.15
12/8/2022 19:14	-.-
12/8/2022 19:15	-.-
12/8/2022 19:14	0.07
12/8/2022 19:15	-.-
12/8/2022 19:16	-.-
12/8/2022 19:15	0.14
12/8/2022 19:16	-.-
12/8/2022 19:17	-.-
12/8/2022 19:16	0.19
12/8/2022 19:17	-.-
12/8/2022 19:18	-.-
12/8/2022 19:17	0.22
12/8/2022 19:18	-.-
12/8/2022 19:19	-.-
12/8/2022 19:18	0.09
12/8/2022 19:19	-.-
12/8/2022 19:20	-.-
12/8/2022 19:19	0.17
12/8/2022 19:20	-.-
12/8/2022 19:21	-.-
12/8/2022 19:20	0.07
12/8/2022 19:21	-.-
12/8/2022 19:22	-.-
12/8/2022 19:21	0.06
12/8/2022 19:22	-.-
12/8/2022 19:23	-.-
12/8/2022 19:22	0.14
12/8/2022 19:23	-.-
12/8/2022 19:24	-.-
12/8/2022 19:23	0.12
12/8/2022 19:24	-.-
12/8/2022 19:25	-.-
12/8/2022 19:24	0.11

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 20:07	0.04
8/8/2022 20:08	-.-
8/8/2022 20:09	-.-
8/8/2022 20:08	0.05
8/8/2022 20:09	-.-
8/8/2022 20:10	-.-
8/8/2022 20:09	0.04
8/8/2022 20:10	-.-
8/8/2022 20:11	-.-
8/8/2022 20:10	0.05
8/8/2022 20:11	-.-
8/8/2022 20:12	-.-
8/8/2022 20:11	0.04
8/8/2022 20:12	-.-
8/8/2022 20:13	-.-
8/8/2022 20:12	0.04
8/8/2022 20:13	-.-
8/8/2022 20:14	-.-
8/8/2022 20:13	0.04
8/8/2022 20:14	-.-
8/8/2022 20:15	-.-
8/8/2022 20:14	0.05
8/8/2022 20:15	-.-
8/8/2022 20:16	-.-
8/8/2022 20:15	0.04
8/8/2022 20:16	-.-
8/8/2022 20:17	-.-
8/8/2022 20:16	0.05
8/8/2022 20:17	-.-
8/8/2022 20:18	-.-
8/8/2022 20:17	0.05
8/8/2022 20:18	-.-
8/8/2022 20:19	-.-
8/8/2022 20:18	0.05
8/8/2022 20:19	-.-
8/8/2022 20:20	-.-
8/8/2022 20:19	0.05
8/8/2022 20:20	-.-
8/8/2022 20:21	-.-
8/8/2022 20:20	0.05
8/8/2022 20:21	-.-
8/8/2022 20:22	-.-
8/8/2022 20:21	0.04

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 21:21	-.-
15/8/2022 21:22	-.-
15/8/2022 21:21	0.1
15/8/2022 21:22	-.-
15/8/2022 21:23	-.-
15/8/2022 21:22	0.07
15/8/2022 21:23	-.-
15/8/2022 21:24	-.-
15/8/2022 21:23	0.16
15/8/2022 21:24	-.-
15/8/2022 21:25	-.-
15/8/2022 21:24	0.14
15/8/2022 21:25	-.-
15/8/2022 21:26	-.-
15/8/2022 21:25	0.07
15/8/2022 21:26	-.-
15/8/2022 21:27	-.-
15/8/2022 21:26	0.06
15/8/2022 21:27	-.-
15/8/2022 21:28	-.-
15/8/2022 21:27	0.06
15/8/2022 21:28	-.-
15/8/2022 21:29	-.-
15/8/2022 21:28	0.11
15/8/2022 21:29	-.-
15/8/2022 21:30	-.-
15/8/2022 21:29	0.15
15/8/2022 21:30	-.-
15/8/2022 21:31	-.-
15/8/2022 21:30	0.06
15/8/2022 21:31	-.-
15/8/2022 21:32	-.-
15/8/2022 21:31	0.07
15/8/2022 21:32	-.-
15/8/2022 21:33	-.-
15/8/2022 21:32	0.06
15/8/2022 21:33	-.-
15/8/2022 21:34	-.-
15/8/2022 21:33	0.07
15/8/2022 21:34	-.-
15/8/2022 21:35	-.-
15/8/2022 21:34	0.07
15/8/2022 21:35	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 16:30	-.-
11/8/2022 16:30	-.-
11/8/2022 16:30	0.05
11/8/2022 16:31	-.-
11/8/2022 16:31	-.-
11/8/2022 16:31	0.05
11/8/2022 16:32	-.-
11/8/2022 16:32	-.-
11/8/2022 16:32	0.04
11/8/2022 16:33	-.-
11/8/2022 16:33	-.-
11/8/2022 16:33	0.04
11/8/2022 16:34	-.-
11/8/2022 16:34	-.-
11/8/2022 16:34	0.05
11/8/2022 16:35	-.-
11/8/2022 16:35	-.-
11/8/2022 16:35	0.04
11/8/2022 16:36	-.-
11/8/2022 16:36	-.-
11/8/2022 16:36	0.05
11/8/2022 16:37	-.-
11/8/2022 16:37	-.-
11/8/2022 16:37	0.04
11/8/2022 16:38	-.-
11/8/2022 16:38	-.-
11/8/2022 16:38	0.05
11/8/2022 16:39	-.-
11/8/2022 16:39	-.-
11/8/2022 16:39	0.05
11/8/2022 16:40	-.-
11/8/2022 16:40	-.-
11/8/2022 16:40	0.06
11/8/2022 16:41	-.-
11/8/2022 16:41	-.-
11/8/2022 16:41	0.04
11/8/2022 16:42	-.-
11/8/2022 16:42	-.-
11/8/2022 16:42	0.05
11/8/2022 16:43	-.-
11/8/2022 16:43	-.-
11/8/2022 16:43	0.04
11/8/2022 16:44	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 19:25	-.-
12/8/2022 19:26	-.-
12/8/2022 19:25	0.19
12/8/2022 19:26	-.-
12/8/2022 19:27	-.-
12/8/2022 19:26	0.12
12/8/2022 19:27	-.-
12/8/2022 19:28	-.-
12/8/2022 19:27	0.07
12/8/2022 19:28	-.-
12/8/2022 19:29	-.-
12/8/2022 19:28	0.07
12/8/2022 19:29	-.-
12/8/2022 19:30	-.-
12/8/2022 19:29	0.24
12/8/2022 19:30	-.-
12/8/2022 19:31	-.-
12/8/2022 19:30	0.07
12/8/2022 19:31	-.-
12/8/2022 19:32	-.-
12/8/2022 19:31	0.17
12/8/2022 19:32	-.-
12/8/2022 19:33	-.-
12/8/2022 19:32	0.19
12/8/2022 19:33	-.-
12/8/2022 19:34	-.-
12/8/2022 19:33	0.18
12/8/2022 19:34	-.-
12/8/2022 19:35	-.-
12/8/2022 19:34	0.06
12/8/2022 19:35	-.-
12/8/2022 19:36	-.-
12/8/2022 19:35	0.11
12/8/2022 19:36	-.-
12/8/2022 19:37	-.-
12/8/2022 19:36	0.17
12/8/2022 19:37	-.-
12/8/2022 19:38	-.-
12/8/2022 19:37	0.06
12/8/2022 19:38	-.-
12/8/2022 19:39	-.-
12/8/2022 19:38	0.24
12/8/2022 19:39	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 20:22	-.-
8/8/2022 20:23	-.-
8/8/2022 20:22	0.05
8/8/2022 20:23	-.-
8/8/2022 20:24	-.-
8/8/2022 20:23	0.04
8/8/2022 20:24	-.-
8/8/2022 20:25	-.-
8/8/2022 20:24	0.04
8/8/2022 20:25	-.-
8/8/2022 20:26	-.-
8/8/2022 20:25	0.05
8/8/2022 20:26	-.-
8/8/2022 20:27	-.-
8/8/2022 20:26	0.06
8/8/2022 20:27	-.-
8/8/2022 20:28	-.-
8/8/2022 20:27	0.05
8/8/2022 20:28	-.-
8/8/2022 20:29	-.-
8/8/2022 20:28	0.04
8/8/2022 20:29	-.-
8/8/2022 20:30	-.-
8/8/2022 20:29	0.04
8/8/2022 20:30	-.-
8/8/2022 20:31	-.-
8/8/2022 20:30	0.04
8/8/2022 20:31	-.-
8/8/2022 20:32	-.-
8/8/2022 20:31	0.04
8/8/2022 20:32	-.-
8/8/2022 20:33	-.-
8/8/2022 20:32	0.05
8/8/2022 20:33	-.-
8/8/2022 20:34	-.-
8/8/2022 20:33	0.04
8/8/2022 20:34	-.-
8/8/2022 20:35	-.-
8/8/2022 20:34	0.05
8/8/2022 20:35	-.-
8/8/2022 20:36	-.-
8/8/2022 20:35	0.04
8/8/2022 20:36	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 21:36	-.-
15/8/2022 21:35	0.1
15/8/2022 21:36	-.-
15/8/2022 21:37	-.-
15/8/2022 21:36	0.1
15/8/2022 21:37	-.-
15/8/2022 21:38	-.-
15/8/2022 21:37	0.08
15/8/2022 21:38	-.-
15/8/2022 21:39	-.-
15/8/2022 21:38	0.1
15/8/2022 21:39	-.-
15/8/2022 21:40	-.-
15/8/2022 21:39	0.08
15/8/2022 21:40	-.-
15/8/2022 21:41	-.-
15/8/2022 21:40	0.05
15/8/2022 21:41	-.-
15/8/2022 21:42	-.-
15/8/2022 21:41	0.08
15/8/2022 21:42	-.-
15/8/2022 21:43	-.-
15/8/2022 21:42	0.08
15/8/2022 21:43	-.-
15/8/2022 21:44	-.-
15/8/2022 21:43	0.06
15/8/2022 21:44	-.-
15/8/2022 21:45	-.-
15/8/2022 21:44	0.07
15/8/2022 21:45	-.-
15/8/2022 21:46	-.-
15/8/2022 21:45	0.09
15/8/2022 21:46	-.-
15/8/2022 21:47	-.-
15/8/2022 21:46	0.09
15/8/2022 21:47	-.-
15/8/2022 21:48	-.-
15/8/2022 21:47	0.05
15/8/2022 21:48	-.-
15/8/2022 21:49	-.-
15/8/2022 21:48	0.09
15/8/2022 21:49	-.-
15/8/2022 21:50	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 16:44	-.-
11/8/2022 16:44	0.04
11/8/2022 16:45	-.-
11/8/2022 16:45	-.-
11/8/2022 16:45	0.05
11/8/2022 16:46	-.-
11/8/2022 16:46	-.-
11/8/2022 16:46	0.04
11/8/2022 16:47	-.-
11/8/2022 16:47	-.-
11/8/2022 16:47	0.04
11/8/2022 16:48	-.-
11/8/2022 16:48	-.-
11/8/2022 16:48	0.04
11/8/2022 16:49	-.-
11/8/2022 16:49	-.-
11/8/2022 16:49	0.04
11/8/2022 16:50	-.-
11/8/2022 16:50	-.-
11/8/2022 16:50	0.04
11/8/2022 16:51	-.-
11/8/2022 16:51	-.-
11/8/2022 16:51	0.06
11/8/2022 16:52	-.-
11/8/2022 16:52	-.-
11/8/2022 16:52	0.05
11/8/2022 16:53	-.-
11/8/2022 16:53	-.-
11/8/2022 16:53	0.05
11/8/2022 16:54	-.-
11/8/2022 16:54	-.-
11/8/2022 16:54	0.04
11/8/2022 16:55	-.-
11/8/2022 16:55	-.-
11/8/2022 16:55	0.05
11/8/2022 16:56	-.-
11/8/2022 16:56	-.-
11/8/2022 16:56	0.04
11/8/2022 16:57	-.-
11/8/2022 16:57	-.-
11/8/2022 16:57	0.04
11/8/2022 16:58	-.-
11/8/2022 16:58	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 19:40	-.-
12/8/2022 19:39	0.07
12/8/2022 19:40	-.-
12/8/2022 19:41	-.-
12/8/2022 19:40	0.05
12/8/2022 19:41	-.-
12/8/2022 19:42	-.-
12/8/2022 19:41	0.06
12/8/2022 19:42	-.-
12/8/2022 19:43	-.-
12/8/2022 19:42	0.12
12/8/2022 19:43	-.-
12/8/2022 19:44	-.-
12/8/2022 19:43	0.09
12/8/2022 19:44	-.-
12/8/2022 19:45	-.-
12/8/2022 19:44	0.08
12/8/2022 19:45	-.-
12/8/2022 19:46	-.-
12/8/2022 19:45	0.18
12/8/2022 19:46	-.-
12/8/2022 19:47	-.-
12/8/2022 19:46	0.06
12/8/2022 19:47	-.-
12/8/2022 19:48	-.-
12/8/2022 19:47	0.09
12/8/2022 19:48	-.-
12/8/2022 19:49	-.-
12/8/2022 19:48	0.05
12/8/2022 19:49	-.-
12/8/2022 19:50	-.-
12/8/2022 19:49	0.13
12/8/2022 19:50	-.-
12/8/2022 19:51	-.-
12/8/2022 19:50	0.06
12/8/2022 19:51	-.-
12/8/2022 19:52	-.-
12/8/2022 19:51	0.21
12/8/2022 19:52	-.-
12/8/2022 19:53	-.-
12/8/2022 19:52	0.09
12/8/2022 19:53	-.-
12/8/2022 19:54	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 20:37	-.-
8/8/2022 20:36	0.05
8/8/2022 20:37	-.-
8/8/2022 20:38	-.-
8/8/2022 20:37	0.05
8/8/2022 20:38	-.-
8/8/2022 20:39	-.-
8/8/2022 20:38	0.04
8/8/2022 20:39	-.-
8/8/2022 20:40	-.-
8/8/2022 20:39	0.04
8/8/2022 20:40	-.-
8/8/2022 20:41	-.-
8/8/2022 20:40	0.04
8/8/2022 20:41	-.-
8/8/2022 20:42	-.-
8/8/2022 20:41	0.05
8/8/2022 20:42	-.-
8/8/2022 20:43	-.-
8/8/2022 20:42	0.05
8/8/2022 20:43	-.-
8/8/2022 20:44	-.-
8/8/2022 20:43	0.05
8/8/2022 20:44	-.-
8/8/2022 20:45	-.-
8/8/2022 20:44	0.05
8/8/2022 20:45	-.-
8/8/2022 20:46	-.-
8/8/2022 20:45	0.05
8/8/2022 20:46	-.-
8/8/2022 20:47	-.-
8/8/2022 20:46	0.05
8/8/2022 20:47	-.-
8/8/2022 20:48	-.-
8/8/2022 20:47	0.07
8/8/2022 20:48	-.-
8/8/2022 20:49	-.-
8/8/2022 20:48	0.05
8/8/2022 20:49	-.-
8/8/2022 20:50	-.-
8/8/2022 20:49	0.05
8/8/2022 20:50	-.-
8/8/2022 20:51	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 21:49	0.09
15/8/2022 21:50	-.-
15/8/2022 21:51	-.-
15/8/2022 21:50	0.08
15/8/2022 21:51	-.-
15/8/2022 21:52	-.-
15/8/2022 21:51	0.05
15/8/2022 21:52	-.-
15/8/2022 21:53	-.-
15/8/2022 21:52	0.1
15/8/2022 21:53	-.-
15/8/2022 21:54	-.-
15/8/2022 21:53	0.06
15/8/2022 21:54	-.-
15/8/2022 21:55	-.-
15/8/2022 21:54	0.1
15/8/2022 21:55	-.-
15/8/2022 21:56	-.-
15/8/2022 21:55	0.12
15/8/2022 21:56	-.-
15/8/2022 21:57	-.-
15/8/2022 21:56	0.06
15/8/2022 21:57	-.-
15/8/2022 21:58	-.-
15/8/2022 21:57	0.06
15/8/2022 21:58	-.-
15/8/2022 21:59	-.-
15/8/2022 21:58	0.06
15/8/2022 21:59	-.-
15/8/2022 22:00	-.-
15/8/2022 21:59	0.09
15/8/2022 22:00	-.-
15/8/2022 22:01	-.-
15/8/2022 22:00	0.05
15/8/2022 22:01	-.-
15/8/2022 22:02	-.-
15/8/2022 22:01	0.1
15/8/2022 22:02	-.-
15/8/2022 22:03	-.-
15/8/2022 22:02	0.17
15/8/2022 22:03	-.-
15/8/2022 22:04	-.-
15/8/2022 22:03	0.06

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 16:58	0.05
11/8/2022 16:59	-.-
11/8/2022 16:59	-.-
11/8/2022 16:59	0.05
11/8/2022 17:00	-.-
11/8/2022 17:00	-.-
11/8/2022 17:00	0.04
11/8/2022 17:01	-.-
11/8/2022 17:01	-.-
11/8/2022 17:01	0.04
11/8/2022 17:02	-.-
11/8/2022 17:02	-.-
11/8/2022 17:02	0.04
11/8/2022 17:03	-.-
11/8/2022 17:03	-.-
11/8/2022 17:03	0.05
11/8/2022 17:04	-.-
11/8/2022 17:04	-.-
11/8/2022 17:04	0.04
11/8/2022 17:05	-.-
11/8/2022 17:05	-.-
11/8/2022 17:05	0.04
11/8/2022 17:06	-.-
11/8/2022 17:06	-.-
11/8/2022 17:06	0.05
11/8/2022 17:07	-.-
11/8/2022 17:07	-.-
11/8/2022 17:07	0.05
11/8/2022 17:08	-.-
11/8/2022 17:08	-.-
11/8/2022 17:08	0.04
11/8/2022 17:09	-.-
11/8/2022 17:09	-.-
11/8/2022 17:09	0.04
11/8/2022 17:10	-.-
11/8/2022 17:10	-.-
11/8/2022 17:10	0.04
11/8/2022 17:11	-.-
11/8/2022 17:11	-.-
11/8/2022 17:11	0.28
11/8/2022 17:12	-.-
11/8/2022 17:12	-.-
11/8/2022 17:12	0.04

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 19:53	0.06
12/8/2022 19:54	-.-
12/8/2022 19:55	-.-
12/8/2022 19:54	0.05
12/8/2022 19:55	-.-
12/8/2022 19:56	-.-
12/8/2022 19:55	0.09
12/8/2022 19:56	-.-
12/8/2022 19:57	-.-
12/8/2022 19:56	0.06
12/8/2022 19:57	-.-
12/8/2022 19:58	-.-
12/8/2022 19:57	0.06
12/8/2022 19:58	-.-
12/8/2022 19:59	-.-
12/8/2022 19:58	0.05
12/8/2022 19:59	-.-
12/8/2022 20:00	-.-
12/8/2022 19:59	0.06
12/8/2022 20:00	-.-
12/8/2022 20:01	-.-
12/8/2022 20:00	0.08
12/8/2022 20:01	-.-
12/8/2022 20:02	-.-
12/8/2022 20:01	0.06
12/8/2022 20:02	-.-
12/8/2022 20:03	-.-
12/8/2022 20:02	0.13
12/8/2022 20:03	-.-
12/8/2022 20:04	-.-
12/8/2022 20:03	0.11
12/8/2022 20:04	-.-
12/8/2022 20:05	-.-
12/8/2022 20:04	0.13
12/8/2022 20:05	-.-
12/8/2022 20:06	-.-
12/8/2022 20:05	0.1
12/8/2022 20:06	-.-
12/8/2022 20:07	-.-
12/8/2022 20:06	0.19
12/8/2022 20:07	-.-
12/8/2022 20:08	-.-
12/8/2022 20:07	0.1

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 20:50	0.04
8/8/2022 20:51	-.-
8/8/2022 20:52	-.-
8/8/2022 20:51	0.05
8/8/2022 20:52	-.-
8/8/2022 20:53	-.-
8/8/2022 20:52	0.04
8/8/2022 20:53	-.-
8/8/2022 20:54	-.-
8/8/2022 20:53	0.05
8/8/2022 20:54	-.-
8/8/2022 20:55	-.-
8/8/2022 20:54	0.05
8/8/2022 20:55	-.-
8/8/2022 20:56	-.-
8/8/2022 20:55	0.05
8/8/2022 20:56	-.-
8/8/2022 20:57	-.-
8/8/2022 20:56	0.04
8/8/2022 20:57	-.-
8/8/2022 20:58	-.-
8/8/2022 20:57	0.05
8/8/2022 20:58	-.-
8/8/2022 20:59	-.-
8/8/2022 20:58	0.04
8/8/2022 20:59	-.-
8/8/2022 21:00	-.-
8/8/2022 20:59	0.04
8/8/2022 21:00	-.-
8/8/2022 21:01	-.-
8/8/2022 21:00	0.04
8/8/2022 21:01	-.-
8/8/2022 21:02	-.-
8/8/2022 21:01	0.04
8/8/2022 21:02	-.-
8/8/2022 21:03	-.-
8/8/2022 21:02	0.05
8/8/2022 21:03	-.-
8/8/2022 21:04	-.-
8/8/2022 21:03	0.04
8/8/2022 21:04	-.-
8/8/2022 21:05	-.-
8/8/2022 21:04	0.04

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 22:04	-.-
15/8/2022 22:05	-.-
15/8/2022 22:04	0.05
15/8/2022 22:05	-.-
15/8/2022 22:06	-.-
15/8/2022 22:05	0.07
15/8/2022 22:06	-.-
15/8/2022 22:07	-.-
15/8/2022 22:06	0.07
15/8/2022 22:07	-.-
15/8/2022 22:08	-.-
15/8/2022 22:07	0.18
15/8/2022 22:08	-.-
15/8/2022 22:09	-.-
15/8/2022 22:08	0.05
15/8/2022 22:09	-.-
15/8/2022 22:10	-.-
15/8/2022 22:09	0.06
15/8/2022 22:10	-.-
15/8/2022 22:11	-.-
15/8/2022 22:10	0.05
15/8/2022 22:11	-.-
15/8/2022 22:12	-.-
15/8/2022 22:11	0.1
15/8/2022 22:12	-.-
15/8/2022 22:13	-.-
15/8/2022 22:12	0.06
15/8/2022 22:13	-.-
15/8/2022 22:14	-.-
15/8/2022 22:13	0.06
15/8/2022 22:14	-.-
15/8/2022 22:15	-.-
15/8/2022 22:14	0.09
15/8/2022 22:15	-.-
15/8/2022 22:16	-.-
15/8/2022 22:15	0.09
15/8/2022 22:16	-.-
15/8/2022 22:17	-.-
15/8/2022 22:16	0.06
15/8/2022 22:17	-.-
15/8/2022 22:18	-.-
15/8/2022 22:17	0.06
15/8/2022 22:18	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 17:13	-.-
11/8/2022 17:13	-.-
11/8/2022 17:13	0.04
11/8/2022 17:14	-.-
11/8/2022 17:14	-.-
11/8/2022 17:14	0.04
11/8/2022 17:15	-.-
11/8/2022 17:15	-.-
11/8/2022 17:15	0.04
11/8/2022 17:16	-.-
11/8/2022 17:16	-.-
11/8/2022 17:16	0.04
11/8/2022 17:17	-.-
11/8/2022 17:17	-.-
11/8/2022 17:17	0.05
11/8/2022 17:18	-.-
11/8/2022 17:18	-.-
11/8/2022 17:18	0.05
11/8/2022 17:19	-.-
11/8/2022 17:19	-.-
11/8/2022 17:19	0.04
11/8/2022 17:20	-.-
11/8/2022 17:20	-.-
11/8/2022 17:20	0.04
11/8/2022 17:21	-.-
11/8/2022 17:21	-.-
11/8/2022 17:21	0.04
11/8/2022 17:22	-.-
11/8/2022 17:22	-.-
11/8/2022 17:22	0.05
11/8/2022 17:23	-.-
11/8/2022 17:23	-.-
11/8/2022 17:23	0.04
11/8/2022 17:24	-.-
11/8/2022 17:24	-.-
11/8/2022 17:24	0.05
11/8/2022 17:25	-.-
11/8/2022 17:25	-.-
11/8/2022 17:25	0.05
11/8/2022 17:26	-.-
11/8/2022 17:26	-.-
11/8/2022 17:26	0.04
11/8/2022 17:27	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 20:08	-.-
12/8/2022 20:09	-.-
12/8/2022 20:08	0.05
12/8/2022 20:09	-.-
12/8/2022 20:10	-.-
12/8/2022 20:09	0.06
12/8/2022 20:10	-.-
12/8/2022 20:11	-.-
12/8/2022 20:10	0.05
12/8/2022 20:11	-.-
12/8/2022 20:12	-.-
12/8/2022 20:11	0.13
12/8/2022 20:12	-.-
12/8/2022 20:13	-.-
12/8/2022 20:12	0.1
12/8/2022 20:13	-.-
12/8/2022 20:14	-.-
12/8/2022 20:13	0.12
12/8/2022 20:14	-.-
12/8/2022 20:15	-.-
12/8/2022 20:14	0.08
12/8/2022 20:15	-.-
12/8/2022 20:16	-.-
12/8/2022 20:15	0.06
12/8/2022 20:16	-.-
12/8/2022 20:17	-.-
12/8/2022 20:16	0.1
12/8/2022 20:17	-.-
12/8/2022 20:18	-.-
12/8/2022 20:17	0.21
12/8/2022 20:18	-.-
12/8/2022 20:19	-.-
12/8/2022 20:18	0.06
12/8/2022 20:19	-.-
12/8/2022 20:20	-.-
12/8/2022 20:19	0.09
12/8/2022 20:20	-.-
12/8/2022 20:21	-.-
12/8/2022 20:20	0.07
12/8/2022 20:21	-.-
12/8/2022 20:22	-.-
12/8/2022 20:21	0.09
12/8/2022 20:22	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 21:05	-.-
8/8/2022 21:06	-.-
8/8/2022 21:05	0.04
8/8/2022 21:06	-.-
8/8/2022 21:07	-.-
8/8/2022 21:06	0.05
8/8/2022 21:07	-.-
8/8/2022 21:08	-.-
8/8/2022 21:07	0.05
8/8/2022 21:08	-.-
8/8/2022 21:09	-.-
8/8/2022 21:08	0.04
8/8/2022 21:09	-.-
8/8/2022 21:10	-.-
8/8/2022 21:09	0.05
8/8/2022 21:10	-.-
8/8/2022 21:11	-.-
8/8/2022 21:10	0.05
8/8/2022 21:11	-.-
8/8/2022 21:12	-.-
8/8/2022 21:11	0.04
8/8/2022 21:12	-.-
8/8/2022 21:13	-.-
8/8/2022 21:12	0.04
8/8/2022 21:13	-.-
8/8/2022 21:14	-.-
8/8/2022 21:13	0.04
8/8/2022 21:14	-.-
8/8/2022 21:15	-.-
8/8/2022 21:14	0.05
8/8/2022 21:15	-.-
8/8/2022 21:16	-.-
8/8/2022 21:15	0.04
8/8/2022 21:16	-.-
8/8/2022 21:17	-.-
8/8/2022 21:16	0.04
8/8/2022 21:17	-.-
8/8/2022 21:18	-.-
8/8/2022 21:17	0.04
8/8/2022 21:18	-.-
8/8/2022 21:19	-.-
8/8/2022 21:18	0.04
8/8/2022 21:19	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 22:19	-.-
15/8/2022 22:18	0.1
15/8/2022 22:19	-.-
15/8/2022 22:20	-.-
15/8/2022 22:19	0.07
15/8/2022 22:20	-.-
15/8/2022 22:21	-.-
15/8/2022 22:20	0.13
15/8/2022 22:21	-.-
15/8/2022 22:22	-.-
15/8/2022 22:21	0.17
15/8/2022 22:22	-.-
15/8/2022 22:23	-.-
15/8/2022 22:22	0.12
15/8/2022 22:23	-.-
15/8/2022 22:24	-.-
15/8/2022 22:23	0.11
15/8/2022 22:24	-.-
15/8/2022 22:25	-.-
15/8/2022 22:24	0.09
15/8/2022 22:25	-.-
15/8/2022 22:26	-.-
15/8/2022 22:25	0.1
15/8/2022 22:26	-.-
15/8/2022 22:27	-.-
15/8/2022 22:26	0.06
15/8/2022 22:27	-.-
15/8/2022 22:28	-.-
15/8/2022 22:27	0.05
15/8/2022 22:28	-.-
15/8/2022 22:29	-.-
15/8/2022 22:28	0.08
15/8/2022 22:29	-.-
15/8/2022 22:30	-.-
15/8/2022 22:29	0.09
15/8/2022 22:30	-.-
15/8/2022 22:31	-.-
15/8/2022 22:30	0.14
15/8/2022 22:31	-.-
15/8/2022 22:32	-.-
15/8/2022 22:31	0.05
15/8/2022 22:32	-.-
15/8/2022 22:33	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 17:27	-.-
11/8/2022 17:27	0.04
11/8/2022 17:28	-.-
11/8/2022 17:28	-.-
11/8/2022 17:28	0.05
11/8/2022 17:29	-.-
11/8/2022 17:29	-.-
11/8/2022 17:29	0.04
11/8/2022 17:30	-.-
11/8/2022 17:30	-.-
11/8/2022 17:30	0.05
11/8/2022 17:31	-.-
11/8/2022 17:31	-.-
11/8/2022 17:31	0.04
11/8/2022 17:32	-.-
11/8/2022 17:32	-.-
11/8/2022 17:32	0.05
11/8/2022 17:33	-.-
11/8/2022 17:33	-.-
11/8/2022 17:33	0.04
11/8/2022 17:34	-.-
11/8/2022 17:34	-.-
11/8/2022 17:34	0.05
11/8/2022 17:35	-.-
11/8/2022 17:35	-.-
11/8/2022 17:35	0.05
11/8/2022 17:36	-.-
11/8/2022 17:36	-.-
11/8/2022 17:36	0.04
11/8/2022 17:37	-.-
11/8/2022 17:37	-.-
11/8/2022 17:37	0.05
11/8/2022 17:38	-.-
11/8/2022 17:38	-.-
11/8/2022 17:38	0.04
11/8/2022 17:39	-.-
11/8/2022 17:39	-.-
11/8/2022 17:39	0.05
11/8/2022 17:40	-.-
11/8/2022 17:40	-.-
11/8/2022 17:40	0.04
11/8/2022 17:41	-.-
11/8/2022 17:41	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 20:23	-.-
12/8/2022 20:22	0.15
12/8/2022 20:23	-.-
12/8/2022 20:24	-.-
12/8/2022 20:23	0.07
12/8/2022 20:24	-.-
12/8/2022 20:25	-.-
12/8/2022 20:24	0.08
12/8/2022 20:25	-.-
12/8/2022 20:26	-.-
12/8/2022 20:25	0.05
12/8/2022 20:26	-.-
12/8/2022 20:27	-.-
12/8/2022 20:26	0.06
12/8/2022 20:27	-.-
12/8/2022 20:28	-.-
12/8/2022 20:27	0.05
12/8/2022 20:28	-.-
12/8/2022 20:29	-.-
12/8/2022 20:28	0.05
12/8/2022 20:29	-.-
12/8/2022 20:30	-.-
12/8/2022 20:29	0.08
12/8/2022 20:30	-.-
12/8/2022 20:31	-.-
12/8/2022 20:30	0.3
12/8/2022 20:31	-.-
12/8/2022 20:32	-.-
12/8/2022 20:31	0.07
12/8/2022 20:32	-.-
12/8/2022 20:33	-.-
12/8/2022 20:32	0.06
12/8/2022 20:33	-.-
12/8/2022 20:34	-.-
12/8/2022 20:33	0.06
12/8/2022 20:34	-.-
12/8/2022 20:35	-.-
12/8/2022 20:34	0.23
12/8/2022 20:35	-.-
12/8/2022 20:36	-.-
12/8/2022 20:35	0.06
12/8/2022 20:36	-.-
12/8/2022 20:37	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 21:20	-.-
8/8/2022 21:19	0.04
8/8/2022 21:20	-.-
8/8/2022 21:21	-.-
8/8/2022 21:20	0.04
8/8/2022 21:21	-.-
8/8/2022 21:22	-.-
8/8/2022 21:21	0.04
8/8/2022 21:22	-.-
8/8/2022 21:23	-.-
8/8/2022 21:22	0.05
8/8/2022 21:23	-.-
8/8/2022 21:24	-.-
8/8/2022 21:23	0.04
8/8/2022 21:24	-.-
8/8/2022 21:25	-.-
8/8/2022 21:24	0.05
8/8/2022 21:25	-.-
8/8/2022 21:26	-.-
8/8/2022 21:25	0.05
8/8/2022 21:26	-.-
8/8/2022 21:27	-.-
8/8/2022 21:26	0.04
8/8/2022 21:27	-.-
8/8/2022 21:28	-.-
8/8/2022 21:27	0.05
8/8/2022 21:28	-.-
8/8/2022 21:29	-.-
8/8/2022 21:28	0.04
8/8/2022 21:29	-.-
8/8/2022 21:30	-.-
8/8/2022 21:29	0.04
8/8/2022 21:30	-.-
8/8/2022 21:31	-.-
8/8/2022 21:30	0.04
8/8/2022 21:31	-.-
8/8/2022 21:32	-.-
8/8/2022 21:31	0.04
8/8/2022 21:32	-.-
8/8/2022 21:33	-.-
8/8/2022 21:32	0.04
8/8/2022 21:33	-.-
8/8/2022 21:34	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 22:32	0.05
15/8/2022 22:33	-.-
15/8/2022 22:34	-.-
15/8/2022 22:33	0.12
15/8/2022 22:34	-.-
15/8/2022 22:35	-.-
15/8/2022 22:34	0.09
15/8/2022 22:35	-.-
15/8/2022 22:36	-.-
15/8/2022 22:35	0.18
15/8/2022 22:36	-.-
15/8/2022 22:37	-.-
15/8/2022 22:36	0.08
15/8/2022 22:37	-.-
15/8/2022 22:38	-.-
15/8/2022 22:37	0.05
15/8/2022 22:38	-.-
15/8/2022 22:39	-.-
15/8/2022 22:38	0.12
15/8/2022 22:39	-.-
15/8/2022 22:40	-.-
15/8/2022 22:39	0.07
15/8/2022 22:40	-.-
15/8/2022 22:41	-.-
15/8/2022 22:40	0.08
15/8/2022 22:41	-.-
15/8/2022 22:42	-.-
15/8/2022 22:41	0.05
15/8/2022 22:42	-.-
15/8/2022 22:43	-.-
15/8/2022 22:42	0.06
15/8/2022 22:43	-.-
15/8/2022 22:44	-.-
15/8/2022 22:43	0.05
15/8/2022 22:44	-.-
15/8/2022 22:45	-.-
15/8/2022 22:44	0.06
15/8/2022 22:45	-.-
15/8/2022 22:46	-.-
15/8/2022 22:45	0.06
15/8/2022 22:46	-.-
15/8/2022 22:47	-.-
15/8/2022 22:46	0.06

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 17:41	0.04
11/8/2022 17:42	-.-
11/8/2022 17:42	-.-
11/8/2022 17:42	0.04
11/8/2022 17:43	-.-
11/8/2022 17:43	-.-
11/8/2022 17:43	0.04
11/8/2022 17:44	-.-
11/8/2022 17:44	-.-
11/8/2022 17:44	0.04
11/8/2022 17:45	-.-
11/8/2022 17:45	-.-
11/8/2022 17:45	0.04
11/8/2022 17:46	-.-
11/8/2022 17:46	-.-
11/8/2022 17:46	0.04
11/8/2022 17:47	-.-
11/8/2022 17:47	-.-
11/8/2022 17:47	0.05
11/8/2022 17:48	-.-
11/8/2022 17:48	-.-
11/8/2022 17:48	0.05
11/8/2022 17:49	-.-
11/8/2022 17:49	-.-
11/8/2022 17:49	0.04
11/8/2022 17:50	-.-
11/8/2022 17:50	-.-
11/8/2022 17:50	0.05
11/8/2022 17:51	-.-
11/8/2022 17:51	-.-
11/8/2022 17:51	0.04
11/8/2022 17:52	-.-
11/8/2022 17:52	-.-
11/8/2022 17:52	0.05
11/8/2022 17:53	-.-
11/8/2022 17:53	-.-
11/8/2022 17:53	0.04
11/8/2022 17:54	-.-
11/8/2022 17:54	-.-
11/8/2022 17:54	0.05
11/8/2022 17:55	-.-
11/8/2022 17:55	-.-
11/8/2022 17:55	0.04

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 20:36	0.09
12/8/2022 20:37	-.-
12/8/2022 20:38	-.-
12/8/2022 20:37	0.04
12/8/2022 20:38	-.-
12/8/2022 20:39	-.-
12/8/2022 20:38	0.07
12/8/2022 20:39	-.-
12/8/2022 20:40	-.-
12/8/2022 20:39	0.05
12/8/2022 20:40	-.-
12/8/2022 20:41	-.-
12/8/2022 20:40	0.05
12/8/2022 20:41	-.-
12/8/2022 20:42	-.-
12/8/2022 20:41	0.14
12/8/2022 20:42	-.-
12/8/2022 20:43	-.-
12/8/2022 20:42	0.07
12/8/2022 20:43	-.-
12/8/2022 20:44	-.-
12/8/2022 20:43	0.34
12/8/2022 20:44	-.-
12/8/2022 20:45	-.-
12/8/2022 20:44	0.11
12/8/2022 20:45	-.-
12/8/2022 20:46	-.-
12/8/2022 20:45	0.05
12/8/2022 20:46	-.-
12/8/2022 20:47	-.-
12/8/2022 20:46	0.13
12/8/2022 20:47	-.-
12/8/2022 20:48	-.-
12/8/2022 20:47	0.13
12/8/2022 20:48	-.-
12/8/2022 20:49	-.-
12/8/2022 20:48	0.07
12/8/2022 20:49	-.-
12/8/2022 20:50	-.-
12/8/2022 20:49	0.07
12/8/2022 20:50	-.-
12/8/2022 20:51	-.-
12/8/2022 20:50	0.05

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 21:33	0.04
8/8/2022 21:34	-.-
8/8/2022 21:35	-.-
8/8/2022 21:34	0.04
8/8/2022 21:35	-.-
8/8/2022 21:36	-.-
8/8/2022 21:35	0.04
8/8/2022 21:36	-.-
8/8/2022 21:37	-.-
8/8/2022 21:36	0.04
8/8/2022 21:37	-.-
8/8/2022 21:38	-.-
8/8/2022 21:37	0.04
8/8/2022 21:38	-.-
8/8/2022 21:39	-.-
8/8/2022 21:38	0.04
8/8/2022 21:39	-.-
8/8/2022 21:40	-.-
8/8/2022 21:39	0.05
8/8/2022 21:40	-.-
8/8/2022 21:41	-.-
8/8/2022 21:40	0.04
8/8/2022 21:41	-.-
8/8/2022 21:42	-.-
8/8/2022 21:41	0.05
8/8/2022 21:42	-.-
8/8/2022 21:43	-.-
8/8/2022 21:42	0.04
8/8/2022 21:43	-.-
8/8/2022 21:44	-.-
8/8/2022 21:43	0.04
8/8/2022 21:44	-.-
8/8/2022 21:45	-.-
8/8/2022 21:44	0.04
8/8/2022 21:45	-.-
8/8/2022 21:46	-.-
8/8/2022 21:45	0.04
8/8/2022 21:46	-.-
8/8/2022 21:47	-.-
8/8/2022 21:46	0.05
8/8/2022 21:47	-.-
8/8/2022 21:48	-.-
8/8/2022 21:47	0.05

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 22:47	-.-
15/8/2022 22:48	-.-
15/8/2022 22:47	0.07
15/8/2022 22:48	-.-
15/8/2022 22:49	-.-
15/8/2022 22:48	0.12
15/8/2022 22:49	-.-
15/8/2022 22:50	-.-
15/8/2022 22:49	0.06
15/8/2022 22:50	-.-
15/8/2022 22:51	-.-
15/8/2022 22:50	0.07
15/8/2022 22:51	-.-
15/8/2022 22:52	-.-
15/8/2022 22:51	0.19
15/8/2022 22:52	-.-
15/8/2022 22:53	-.-
15/8/2022 22:52	0.08
15/8/2022 22:53	-.-
15/8/2022 22:54	-.-
15/8/2022 22:53	1.74
15/8/2022 22:54	-.-
15/8/2022 22:55	-.-
15/8/2022 22:54	0.08
15/8/2022 22:55	-.-
15/8/2022 22:56	-.-
15/8/2022 22:55	0.07
15/8/2022 22:56	-.-
15/8/2022 22:57	-.-
15/8/2022 22:56	0.1
15/8/2022 22:57	-.-
15/8/2022 22:58	-.-
15/8/2022 22:57	0.05
15/8/2022 22:58	-.-
15/8/2022 22:59	-.-
15/8/2022 22:58	0.07
15/8/2022 22:59	-.-
15/8/2022 23:00	-.-
15/8/2022 22:59	0.07
15/8/2022 23:00	-.-
15/8/2022 23:01	-.-
15/8/2022 23:00	0.09
15/8/2022 23:01	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 17:56	-.-
11/8/2022 17:56	-.-
11/8/2022 17:56	0.05
11/8/2022 17:57	-.-
11/8/2022 17:57	-.-
11/8/2022 17:57	0.04
11/8/2022 17:58	-.-
11/8/2022 17:58	-.-
11/8/2022 17:58	0.05
11/8/2022 17:59	-.-
11/8/2022 17:59	-.-
11/8/2022 17:59	0.04
11/8/2022 18:00	-.-
11/8/2022 18:00	-.-
11/8/2022 18:00	0.05
11/8/2022 18:01	-.-
11/8/2022 18:01	-.-
11/8/2022 18:01	0.05
11/8/2022 18:02	-.-
11/8/2022 18:02	-.-
11/8/2022 18:02	0.05
11/8/2022 18:03	-.-
11/8/2022 18:03	-.-
11/8/2022 18:03	0.05
11/8/2022 18:04	-.-
11/8/2022 18:04	-.-
11/8/2022 18:04	0.05
11/8/2022 18:05	-.-
11/8/2022 18:05	-.-
11/8/2022 18:05	0.04
11/8/2022 18:06	-.-
11/8/2022 18:06	-.-
11/8/2022 18:06	0.04
11/8/2022 18:07	-.-
11/8/2022 18:07	-.-
11/8/2022 18:07	0.04
11/8/2022 18:08	-.-
11/8/2022 18:08	-.-
11/8/2022 18:08	0.05
11/8/2022 18:09	-.-
11/8/2022 18:09	-.-
11/8/2022 18:09	0.04
11/8/2022 18:10	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 20:51	-.-
12/8/2022 20:52	-.-
12/8/2022 20:51	0.1
12/8/2022 20:52	-.-
12/8/2022 20:53	-.-
12/8/2022 20:52	0.1
12/8/2022 20:53	-.-
12/8/2022 20:54	-.-
12/8/2022 20:53	0.06
12/8/2022 20:54	-.-
12/8/2022 20:55	-.-
12/8/2022 20:54	0.06
12/8/2022 20:55	-.-
12/8/2022 20:56	-.-
12/8/2022 20:55	0.06
12/8/2022 20:56	-.-
12/8/2022 20:57	-.-
12/8/2022 20:56	0.11
12/8/2022 20:57	-.-
12/8/2022 20:58	-.-
12/8/2022 20:57	0.12
12/8/2022 20:58	-.-
12/8/2022 20:59	-.-
12/8/2022 20:58	0.14
12/8/2022 20:59	-.-
12/8/2022 21:00	-.-
12/8/2022 20:59	0.05
12/8/2022 21:00	-.-
12/8/2022 21:01	-.-
12/8/2022 21:00	0.13
12/8/2022 21:01	-.-
12/8/2022 21:02	-.-
12/8/2022 21:01	0.06
12/8/2022 21:02	-.-
12/8/2022 21:03	-.-
12/8/2022 21:02	0.18
12/8/2022 21:03	-.-
12/8/2022 21:04	-.-
12/8/2022 21:03	0.08
12/8/2022 21:04	-.-
12/8/2022 21:05	-.-
12/8/2022 21:04	0.05
12/8/2022 21:05	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 21:48	-.-
8/8/2022 21:49	-.-
8/8/2022 21:48	0.04
8/8/2022 21:49	-.-
8/8/2022 21:50	-.-
8/8/2022 21:49	0.04
8/8/2022 21:50	-.-
8/8/2022 21:51	-.-
8/8/2022 21:50	0.05
8/8/2022 21:51	-.-
8/8/2022 21:52	-.-
8/8/2022 21:51	0.04
8/8/2022 21:52	-.-
8/8/2022 21:53	-.-
8/8/2022 21:52	0.04
8/8/2022 21:53	-.-
8/8/2022 21:54	-.-
8/8/2022 21:53	0.04
8/8/2022 21:54	-.-
8/8/2022 21:55	-.-
8/8/2022 21:54	0.04
8/8/2022 21:55	-.-
8/8/2022 21:56	-.-
8/8/2022 21:55	0.05
8/8/2022 21:56	-.-
8/8/2022 21:57	-.-
8/8/2022 21:56	0.05
8/8/2022 21:57	-.-
8/8/2022 21:58	-.-
8/8/2022 21:57	0.04
8/8/2022 21:58	-.-
8/8/2022 21:59	-.-
8/8/2022 21:58	0.04
8/8/2022 21:59	-.-
8/8/2022 22:00	-.-
8/8/2022 21:59	0.04
8/8/2022 22:00	-.-
8/8/2022 22:01	-.-
8/8/2022 22:00	0.05
8/8/2022 22:01	-.-
8/8/2022 22:02	-.-
8/8/2022 22:01	0.04
8/8/2022 22:02	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 23:02	-.-
15/8/2022 23:01	0.06
15/8/2022 23:02	-.-
15/8/2022 23:03	-.-
15/8/2022 23:02	0.15
15/8/2022 23:03	-.-
15/8/2022 23:04	-.-
15/8/2022 23:03	0.13
15/8/2022 23:04	-.-
15/8/2022 23:05	-.-
15/8/2022 23:04	0.08
15/8/2022 23:05	-.-
15/8/2022 23:06	-.-
15/8/2022 23:05	0.11
15/8/2022 23:06	-.-
15/8/2022 23:07	-.-
15/8/2022 23:06	0.14
15/8/2022 23:07	-.-
15/8/2022 23:08	-.-
15/8/2022 23:07	0.05
15/8/2022 23:08	-.-
15/8/2022 23:09	-.-
15/8/2022 23:08	0.06
15/8/2022 23:09	-.-
15/8/2022 23:10	-.-
15/8/2022 23:09	0.11
15/8/2022 23:10	-.-
15/8/2022 23:11	-.-
15/8/2022 23:10	0.13
15/8/2022 23:11	-.-
15/8/2022 23:12	-.-
15/8/2022 23:11	0.08
15/8/2022 23:12	-.-
15/8/2022 23:13	-.-
15/8/2022 23:12	0.09
15/8/2022 23:13	-.-
15/8/2022 23:14	-.-
15/8/2022 23:13	0.05
15/8/2022 23:14	-.-
15/8/2022 23:15	-.-
15/8/2022 23:14	0.06
15/8/2022 23:15	-.-
15/8/2022 23:16	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 18:10	-.-
11/8/2022 18:10	0.05
11/8/2022 18:11	-.-
11/8/2022 18:11	-.-
11/8/2022 18:11	0.04
11/8/2022 18:12	-.-
11/8/2022 18:12	-.-
11/8/2022 18:12	0.04
11/8/2022 18:13	-.-
11/8/2022 18:13	-.-
11/8/2022 18:13	0.05
11/8/2022 18:14	-.-
11/8/2022 18:14	-.-
11/8/2022 18:14	0.05
11/8/2022 18:15	-.-
11/8/2022 18:15	-.-
11/8/2022 18:15	0.05
11/8/2022 18:16	-.-
11/8/2022 18:16	-.-
11/8/2022 18:16	0.04
11/8/2022 18:17	-.-
11/8/2022 18:17	-.-
11/8/2022 18:17	0.05
11/8/2022 18:18	-.-
11/8/2022 18:18	-.-
11/8/2022 18:18	0.05
11/8/2022 18:19	-.-
11/8/2022 18:19	-.-
11/8/2022 18:19	0.05
11/8/2022 18:20	-.-
11/8/2022 18:20	-.-
11/8/2022 18:20	0.04
11/8/2022 18:21	-.-
11/8/2022 18:21	-.-
11/8/2022 18:21	0.04
11/8/2022 18:22	-.-
11/8/2022 18:22	-.-
11/8/2022 18:22	0.04
11/8/2022 18:23	-.-
11/8/2022 18:23	-.-
11/8/2022 18:23	0.04
11/8/2022 18:24	-.-
11/8/2022 18:24	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 21:06	-.-
12/8/2022 21:05	0.06
12/8/2022 21:06	-.-
12/8/2022 21:07	-.-
12/8/2022 21:06	0.05
12/8/2022 21:07	-.-
12/8/2022 21:08	-.-
12/8/2022 21:07	0.09
12/8/2022 21:08	-.-
12/8/2022 21:09	-.-
12/8/2022 21:08	0.11
12/8/2022 21:09	-.-
12/8/2022 21:10	-.-
12/8/2022 21:09	0.08
12/8/2022 21:10	-.-
12/8/2022 21:11	-.-
12/8/2022 21:10	0.06
12/8/2022 21:11	-.-
12/8/2022 21:12	-.-
12/8/2022 21:11	0.13
12/8/2022 21:12	-.-
12/8/2022 21:13	-.-
12/8/2022 21:12	0.19
12/8/2022 21:13	-.-
12/8/2022 21:14	-.-
12/8/2022 21:13	0.2
12/8/2022 21:14	-.-
12/8/2022 21:15	-.-
12/8/2022 21:14	0.14
12/8/2022 21:15	-.-
12/8/2022 21:16	-.-
12/8/2022 21:15	0.05
12/8/2022 21:16	-.-
12/8/2022 21:17	-.-
12/8/2022 21:16	0.18
12/8/2022 21:17	-.-
12/8/2022 21:18	-.-
12/8/2022 21:17	0.07
12/8/2022 21:18	-.-
12/8/2022 21:19	-.-
12/8/2022 21:18	0.08
12/8/2022 21:19	-.-
12/8/2022 21:20	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 22:03	-.-
8/8/2022 22:02	0.05
8/8/2022 22:03	-.-
8/8/2022 22:04	-.-
8/8/2022 22:03	0.04
8/8/2022 22:04	-.-
8/8/2022 22:05	-.-
8/8/2022 22:04	0.04
8/8/2022 22:05	-.-
8/8/2022 22:06	-.-
8/8/2022 22:05	0.05
8/8/2022 22:06	-.-
8/8/2022 22:07	-.-
8/8/2022 22:06	0.04
8/8/2022 22:07	-.-
8/8/2022 22:08	-.-
8/8/2022 22:07	0.04
8/8/2022 22:08	-.-
8/8/2022 22:09	-.-
8/8/2022 22:08	0.04
8/8/2022 22:09	-.-
8/8/2022 22:10	-.-
8/8/2022 22:09	0.04
8/8/2022 22:10	-.-
8/8/2022 22:11	-.-
8/8/2022 22:10	0.05
8/8/2022 22:11	-.-
8/8/2022 22:12	-.-
8/8/2022 22:11	0.04
8/8/2022 22:12	-.-
8/8/2022 22:13	-.-
8/8/2022 22:12	0.04
8/8/2022 22:13	-.-
8/8/2022 22:14	-.-
8/8/2022 22:13	0.05
8/8/2022 22:14	-.-
8/8/2022 22:15	-.-
8/8/2022 22:14	0.04
8/8/2022 22:15	-.-
8/8/2022 22:16	-.-
8/8/2022 22:15	0.04
8/8/2022 22:16	-.-
8/8/2022 22:17	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 23:15	0.19
15/8/2022 23:16	-.-
15/8/2022 23:17	-.-
15/8/2022 23:16	0.13
15/8/2022 23:17	-.-
15/8/2022 23:18	-.-
15/8/2022 23:17	0.07
15/8/2022 23:18	-.-
15/8/2022 23:19	-.-
15/8/2022 23:18	0.06
15/8/2022 23:19	-.-
15/8/2022 23:20	-.-
15/8/2022 23:19	0.08
15/8/2022 23:20	-.-
15/8/2022 23:21	-.-
15/8/2022 23:20	0.09
15/8/2022 23:21	-.-
15/8/2022 23:22	-.-
15/8/2022 23:21	0.08
15/8/2022 23:22	-.-
15/8/2022 23:23	-.-
15/8/2022 23:22	0.06
15/8/2022 23:23	-.-
15/8/2022 23:24	-.-
15/8/2022 23:23	0.13
15/8/2022 23:24	-.-
15/8/2022 23:25	-.-
15/8/2022 23:24	0.07
15/8/2022 23:25	-.-
15/8/2022 23:26	-.-
15/8/2022 23:25	0.06
15/8/2022 23:26	-.-
15/8/2022 23:27	-.-
15/8/2022 23:26	0.09
15/8/2022 23:27	-.-
15/8/2022 23:28	-.-
15/8/2022 23:27	0.19
15/8/2022 23:28	-.-
15/8/2022 23:29	-.-
15/8/2022 23:28	0.06
15/8/2022 23:29	-.-
15/8/2022 23:30	-.-
15/8/2022 23:29	0.06

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 18:24	0.04
11/8/2022 18:25	-.-
11/8/2022 18:25	-.-
11/8/2022 18:25	0.05
11/8/2022 18:26	-.-
11/8/2022 18:26	-.-
11/8/2022 18:26	0.05
11/8/2022 18:27	-.-
11/8/2022 18:27	-.-
11/8/2022 18:27	0.05
11/8/2022 18:28	-.-
11/8/2022 18:28	-.-
11/8/2022 18:28	0.04
11/8/2022 18:29	-.-
11/8/2022 18:29	-.-
11/8/2022 18:29	0.05
11/8/2022 18:30	-.-
11/8/2022 18:30	-.-
11/8/2022 18:30	0.04
11/8/2022 18:31	-.-
11/8/2022 18:31	-.-
11/8/2022 18:31	0.04
11/8/2022 18:32	-.-
11/8/2022 18:32	-.-
11/8/2022 18:32	0.04
11/8/2022 18:33	-.-
11/8/2022 18:33	-.-
11/8/2022 18:33	0.05
11/8/2022 18:34	-.-
11/8/2022 18:34	-.-
11/8/2022 18:34	0.05
11/8/2022 18:35	-.-
11/8/2022 18:35	-.-
11/8/2022 18:35	0.04
11/8/2022 18:36	-.-
11/8/2022 18:36	-.-
11/8/2022 18:36	0.04
11/8/2022 18:37	-.-
11/8/2022 18:37	-.-
11/8/2022 18:37	0.04
11/8/2022 18:38	-.-
11/8/2022 18:38	-.-
11/8/2022 18:38	0.05

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 21:19	0.05
12/8/2022 21:20	-.-
12/8/2022 21:21	-.-
12/8/2022 21:20	0.06
12/8/2022 21:21	-.-
12/8/2022 21:22	-.-
12/8/2022 21:21	0.15
12/8/2022 21:22	-.-
12/8/2022 21:23	-.-
12/8/2022 21:22	0.05
12/8/2022 21:23	-.-
12/8/2022 21:24	-.-
12/8/2022 21:23	0.05
12/8/2022 21:24	-.-
12/8/2022 21:25	-.-
12/8/2022 21:24	0.07
12/8/2022 21:25	-.-
12/8/2022 21:26	-.-
12/8/2022 21:25	0.12
12/8/2022 21:26	-.-
12/8/2022 21:27	-.-
12/8/2022 21:26	0.07
12/8/2022 21:27	-.-
12/8/2022 21:28	-.-
12/8/2022 21:27	0.06
12/8/2022 21:28	-.-
12/8/2022 21:29	-.-
12/8/2022 21:28	0.11
12/8/2022 21:29	-.-
12/8/2022 21:30	-.-
12/8/2022 21:29	0.09
12/8/2022 21:30	-.-
12/8/2022 21:31	-.-
12/8/2022 21:30	0.06
12/8/2022 21:31	-.-
12/8/2022 21:32	-.-
12/8/2022 21:31	0.06
12/8/2022 21:32	-.-
12/8/2022 21:33	-.-
12/8/2022 21:32	0.05
12/8/2022 21:33	-.-
12/8/2022 21:34	-.-
12/8/2022 21:33	0.19

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 22:16	0.04
8/8/2022 22:17	-.-
8/8/2022 22:18	-.-
8/8/2022 22:17	0.04
8/8/2022 22:18	-.-
8/8/2022 22:19	-.-
8/8/2022 22:18	0.04
8/8/2022 22:19	-.-
8/8/2022 22:20	-.-
8/8/2022 22:19	0.05
8/8/2022 22:20	-.-
8/8/2022 22:21	-.-
8/8/2022 22:20	0.04
8/8/2022 22:21	-.-
8/8/2022 22:22	-.-
8/8/2022 22:21	0.04
8/8/2022 22:22	-.-
8/8/2022 22:23	-.-
8/8/2022 22:22	0.04
8/8/2022 22:23	-.-
8/8/2022 22:24	-.-
8/8/2022 22:23	0.04
8/8/2022 22:24	-.-
8/8/2022 22:25	-.-
8/8/2022 22:24	0.04
8/8/2022 22:25	-.-
8/8/2022 22:26	-.-
8/8/2022 22:25	0.05
8/8/2022 22:26	-.-
8/8/2022 22:27	-.-
8/8/2022 22:26	0.05
8/8/2022 22:27	-.-
8/8/2022 22:28	-.-
8/8/2022 22:27	0.04
8/8/2022 22:28	-.-
8/8/2022 22:29	-.-
8/8/2022 22:28	0.04
8/8/2022 22:29	-.-
8/8/2022 22:30	-.-
8/8/2022 22:29	0.05
8/8/2022 22:30	-.-
8/8/2022 22:31	-.-
8/8/2022 22:30	0.04

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 23:30	-.-
15/8/2022 23:31	-.-
15/8/2022 23:30	0.05
15/8/2022 23:31	-.-
15/8/2022 23:32	-.-
15/8/2022 23:31	0.17
15/8/2022 23:32	-.-
15/8/2022 23:33	-.-
15/8/2022 23:32	0.07
15/8/2022 23:33	-.-
15/8/2022 23:34	-.-
15/8/2022 23:33	0.1
15/8/2022 23:34	-.-
15/8/2022 23:35	-.-
15/8/2022 23:34	0.08
15/8/2022 23:35	-.-
15/8/2022 23:36	-.-
15/8/2022 23:35	0.08
15/8/2022 23:36	-.-
15/8/2022 23:37	-.-
15/8/2022 23:36	0.06
15/8/2022 23:37	-.-
15/8/2022 23:38	-.-
15/8/2022 23:37	0.05
15/8/2022 23:38	-.-
15/8/2022 23:39	-.-
15/8/2022 23:38	0.06
15/8/2022 23:39	-.-
15/8/2022 23:40	-.-
15/8/2022 23:39	0.05
15/8/2022 23:40	-.-
15/8/2022 23:41	-.-
15/8/2022 23:40	0.06
15/8/2022 23:41	-.-
15/8/2022 23:42	-.-
15/8/2022 23:41	0.08
15/8/2022 23:42	-.-
15/8/2022 23:43	-.-
15/8/2022 23:42	0.06
15/8/2022 23:43	-.-
15/8/2022 23:44	-.-
15/8/2022 23:43	0.1
15/8/2022 23:44	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 18:39	-.-
11/8/2022 18:39	-.-
11/8/2022 18:39	0.04
11/8/2022 18:40	-.-
11/8/2022 18:40	-.-
11/8/2022 18:40	0.04
11/8/2022 18:41	-.-
11/8/2022 18:41	-.-
11/8/2022 18:41	0.06
11/8/2022 18:42	-.-
11/8/2022 18:42	-.-
11/8/2022 18:42	0.04
11/8/2022 18:43	-.-
11/8/2022 18:43	-.-
11/8/2022 18:43	0.05
11/8/2022 18:44	-.-
11/8/2022 18:44	-.-
11/8/2022 18:44	0.05
11/8/2022 18:45	-.-
11/8/2022 18:45	-.-
11/8/2022 18:45	0.04
11/8/2022 18:46	-.-
11/8/2022 18:46	-.-
11/8/2022 18:46	0.05
11/8/2022 18:47	-.-
11/8/2022 18:47	-.-
11/8/2022 18:47	0.05
11/8/2022 18:48	-.-
11/8/2022 18:48	-.-
11/8/2022 18:48	0.05
11/8/2022 18:49	-.-
11/8/2022 18:49	-.-
11/8/2022 18:49	0.05
11/8/2022 18:50	-.-
11/8/2022 18:50	-.-
11/8/2022 18:50	0.05
11/8/2022 18:51	-.-
11/8/2022 18:51	-.-
11/8/2022 18:51	0.04
11/8/2022 18:52	-.-
11/8/2022 18:52	-.-
11/8/2022 18:52	0.05
11/8/2022 18:53	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 21:34	-.-
12/8/2022 21:35	-.-
12/8/2022 21:34	0.06
12/8/2022 21:35	-.-
12/8/2022 21:36	-.-
12/8/2022 21:35	0.07
12/8/2022 21:36	-.-
12/8/2022 21:37	-.-
12/8/2022 21:36	0.06
12/8/2022 21:37	-.-
12/8/2022 21:38	-.-
12/8/2022 21:37	0.1
12/8/2022 21:38	-.-
12/8/2022 21:39	-.-
12/8/2022 21:38	0.05
12/8/2022 21:39	-.-
12/8/2022 21:40	-.-
12/8/2022 21:39	0.18
12/8/2022 21:40	-.-
12/8/2022 21:41	-.-
12/8/2022 21:40	0.11
12/8/2022 21:41	-.-
12/8/2022 21:42	-.-
12/8/2022 21:41	0.06
12/8/2022 21:42	-.-
12/8/2022 21:43	-.-
12/8/2022 21:42	0.06
12/8/2022 21:43	-.-
12/8/2022 21:44	-.-
12/8/2022 21:43	0.06
12/8/2022 21:44	-.-
12/8/2022 21:45	-.-
12/8/2022 21:44	0.05
12/8/2022 21:45	-.-
12/8/2022 21:46	-.-
12/8/2022 21:45	0.21
12/8/2022 21:46	-.-
12/8/2022 21:47	-.-
12/8/2022 21:46	0.07
12/8/2022 21:47	-.-
12/8/2022 21:48	-.-
12/8/2022 21:47	0.1
12/8/2022 21:48	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 22:31	-.-
8/8/2022 22:32	-.-
8/8/2022 22:31	0.04
8/8/2022 22:32	-.-
8/8/2022 22:33	-.-
8/8/2022 22:32	0.05
8/8/2022 22:33	-.-
8/8/2022 22:34	-.-
8/8/2022 22:33	0.05
8/8/2022 22:34	-.-
8/8/2022 22:35	-.-
8/8/2022 22:34	0.04
8/8/2022 22:35	-.-
8/8/2022 22:36	-.-
8/8/2022 22:35	0.04
8/8/2022 22:36	-.-
8/8/2022 22:37	-.-
8/8/2022 22:36	0.04
8/8/2022 22:37	-.-
8/8/2022 22:38	-.-
8/8/2022 22:37	0.04
8/8/2022 22:38	-.-
8/8/2022 22:39	-.-
8/8/2022 22:38	0.04
8/8/2022 22:39	-.-
8/8/2022 22:40	-.-
8/8/2022 22:39	0.04
8/8/2022 22:40	-.-
8/8/2022 22:41	-.-
8/8/2022 22:40	0.04
8/8/2022 22:41	-.-
8/8/2022 22:42	-.-
8/8/2022 22:41	0.05
8/8/2022 22:42	-.-
8/8/2022 22:43	-.-
8/8/2022 22:42	0.05
8/8/2022 22:43	-.-
8/8/2022 22:44	-.-
8/8/2022 22:43	0.05
8/8/2022 22:44	-.-
8/8/2022 22:45	-.-
8/8/2022 22:44	0.04
8/8/2022 22:45	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 23:45	-.-
15/8/2022 23:44	0.13
15/8/2022 23:45	-.-
15/8/2022 23:46	-.-
15/8/2022 23:45	0.06
15/8/2022 23:46	-.-
15/8/2022 23:47	-.-
15/8/2022 23:46	0.07
15/8/2022 23:47	-.-
15/8/2022 23:48	-.-
15/8/2022 23:47	0.1
15/8/2022 23:48	-.-
15/8/2022 23:49	-.-
15/8/2022 23:48	0.1
15/8/2022 23:49	-.-
15/8/2022 23:50	-.-
15/8/2022 23:49	0.07
15/8/2022 23:50	-.-
15/8/2022 23:51	-.-
15/8/2022 23:50	0.07
15/8/2022 23:51	-.-
15/8/2022 23:52	-.-
15/8/2022 23:51	0.05
15/8/2022 23:52	-.-
15/8/2022 23:53	-.-
15/8/2022 23:52	0.06
15/8/2022 23:53	-.-
15/8/2022 23:54	-.-
15/8/2022 23:53	0.06
15/8/2022 23:54	-.-
15/8/2022 23:55	-.-
15/8/2022 23:54	0.05
15/8/2022 23:55	-.-
15/8/2022 23:56	-.-
15/8/2022 23:55	0.06
15/8/2022 23:56	-.-
15/8/2022 23:57	-.-
15/8/2022 23:56	0.08
15/8/2022 23:57	-.-
15/8/2022 23:58	-.-
15/8/2022 23:57	0.05
15/8/2022 23:58	-.-
15/8/2022 23:59	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 18:53	-.-
11/8/2022 18:53	0.06
11/8/2022 18:54	-.-
11/8/2022 18:54	-.-
11/8/2022 18:54	0.06
11/8/2022 18:55	-.-
11/8/2022 18:55	-.-
11/8/2022 18:55	0.05
11/8/2022 18:56	-.-
11/8/2022 18:56	-.-
11/8/2022 18:56	0.06
11/8/2022 18:57	-.-
11/8/2022 18:57	-.-
11/8/2022 18:57	0.05
11/8/2022 18:58	-.-
11/8/2022 18:58	-.-
11/8/2022 18:58	0.04
11/8/2022 18:59	-.-
11/8/2022 18:59	-.-
11/8/2022 18:59	0.05
11/8/2022 19:00	-.-
11/8/2022 19:00	-.-
11/8/2022 19:00	0.04
11/8/2022 19:01	-.-
11/8/2022 19:01	-.-
11/8/2022 19:01	0.05
11/8/2022 19:02	-.-
11/8/2022 19:02	-.-
11/8/2022 19:02	0.04
11/8/2022 19:03	-.-
11/8/2022 19:03	-.-
11/8/2022 19:03	0.04
11/8/2022 19:04	-.-
11/8/2022 19:04	-.-
11/8/2022 19:04	0.04
11/8/2022 19:05	-.-
11/8/2022 19:05	-.-
11/8/2022 19:05	0.04
11/8/2022 19:06	-.-
11/8/2022 19:06	-.-
11/8/2022 19:06	0.04
11/8/2022 19:07	-.-
11/8/2022 19:07	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 21:49	-.-
12/8/2022 21:48	0.06
12/8/2022 21:49	-.-
12/8/2022 21:50	-.-
12/8/2022 21:49	0.05
12/8/2022 21:50	-.-
12/8/2022 21:51	-.-
12/8/2022 21:50	0.05
12/8/2022 21:51	-.-
12/8/2022 21:52	-.-
12/8/2022 21:51	0.05
12/8/2022 21:52	-.-
12/8/2022 21:53	-.-
12/8/2022 21:52	0.16
12/8/2022 21:53	-.-
12/8/2022 21:54	-.-
12/8/2022 21:53	0.06
12/8/2022 21:54	-.-
12/8/2022 21:55	-.-
12/8/2022 21:54	0.06
12/8/2022 21:55	-.-
12/8/2022 21:56	-.-
12/8/2022 21:55	0.09
12/8/2022 21:56	-.-
12/8/2022 21:57	-.-
12/8/2022 21:56	0.14
12/8/2022 21:57	-.-
12/8/2022 21:58	-.-
12/8/2022 21:57	0.05
12/8/2022 21:58	-.-
12/8/2022 21:59	-.-
12/8/2022 21:58	0.06
12/8/2022 21:59	-.-
12/8/2022 22:00	-.-
12/8/2022 21:59	0.09
12/8/2022 22:00	-.-
12/8/2022 22:01	-.-
12/8/2022 22:00	0.06
12/8/2022 22:01	-.-
12/8/2022 22:02	-.-
12/8/2022 22:01	0.08
12/8/2022 22:02	-.-
12/8/2022 22:03	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 22:46	-.-
8/8/2022 22:45	0.05
8/8/2022 22:46	-.-
8/8/2022 22:47	-.-
8/8/2022 22:46	0.04
8/8/2022 22:47	-.-
8/8/2022 22:48	-.-
8/8/2022 22:47	0.05
8/8/2022 22:48	-.-
8/8/2022 22:49	-.-
8/8/2022 22:48	0.04
8/8/2022 22:49	-.-
8/8/2022 22:50	-.-
8/8/2022 22:49	0.05
8/8/2022 22:50	-.-
8/8/2022 22:51	-.-
8/8/2022 22:50	0.05
8/8/2022 22:51	-.-
8/8/2022 22:52	-.-
8/8/2022 22:51	0.04
8/8/2022 22:52	-.-
8/8/2022 22:53	-.-
8/8/2022 22:52	0.05
8/8/2022 22:53	-.-
8/8/2022 22:54	-.-
8/8/2022 22:53	0.05
8/8/2022 22:54	-.-
8/8/2022 22:55	-.-
8/8/2022 22:54	0.05
8/8/2022 22:55	-.-
8/8/2022 22:56	-.-
8/8/2022 22:55	0.04
8/8/2022 22:56	-.-
8/8/2022 22:57	-.-
8/8/2022 22:56	0.04
8/8/2022 22:57	-.-
8/8/2022 22:58	-.-
8/8/2022 22:57	0.05
8/8/2022 22:58	-.-
8/8/2022 22:59	-.-
8/8/2022 22:58	0.04
8/8/2022 22:59	-.-
8/8/2022 23:00	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
15/8/2022 23:58	0.06
15/8/2022 23:59	-.-
16/8/2022 0:00	-.-
15/8/2022 23:59	0.06
16/8/2022 0:00	-.-
16/8/2022 0:01	-.-
16/8/2022 0:00	0.15
16/8/2022 0:01	-.-
16/8/2022 0:02	-.-
16/8/2022 0:01	0.12
16/8/2022 0:02	-.-
16/8/2022 0:03	-.-
16/8/2022 0:02	0.1
16/8/2022 0:03	-.-
16/8/2022 0:04	-.-
16/8/2022 0:03	0.05
16/8/2022 0:04	-.-
16/8/2022 0:05	-.-
16/8/2022 0:04	0.08
16/8/2022 0:05	-.-
16/8/2022 0:06	-.-
16/8/2022 0:05	0.06
16/8/2022 0:06	-.-
16/8/2022 0:07	-.-
16/8/2022 0:06	0.12
16/8/2022 0:07	-.-
16/8/2022 0:08	-.-
16/8/2022 0:07	0.05
16/8/2022 0:08	-.-
16/8/2022 0:09	-.-
16/8/2022 0:08	0.07
16/8/2022 0:09	-.-
16/8/2022 0:10	-.-
16/8/2022 0:09	0.05
16/8/2022 0:10	-.-
16/8/2022 0:11	-.-
16/8/2022 0:10	0.06
16/8/2022 0:11	-.-
16/8/2022 0:12	-.-
16/8/2022 0:11	0.08
16/8/2022 0:12	-.-
16/8/2022 0:13	-.-
16/8/2022 0:12	0.08

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 19:07	0.05
11/8/2022 19:08	-.-
11/8/2022 19:08	-.-
11/8/2022 19:08	0.05
11/8/2022 19:09	-.-
11/8/2022 19:09	-.-
11/8/2022 19:09	0.05
11/8/2022 19:10	-.-
11/8/2022 19:10	-.-
11/8/2022 19:10	0.04
11/8/2022 19:11	-.-
11/8/2022 19:11	-.-
11/8/2022 19:11	0.05
11/8/2022 19:12	-.-
11/8/2022 19:12	-.-
11/8/2022 19:12	0.22
11/8/2022 19:13	-.-
11/8/2022 19:13	-.-
11/8/2022 19:13	0.04
11/8/2022 19:14	-.-
11/8/2022 19:14	-.-
11/8/2022 19:14	0.04
11/8/2022 19:15	-.-
11/8/2022 19:15	-.-
11/8/2022 19:15	0.05
11/8/2022 19:16	-.-
11/8/2022 19:16	-.-
11/8/2022 19:16	0.04
11/8/2022 19:17	-.-
11/8/2022 19:17	-.-
11/8/2022 19:17	0.04
11/8/2022 19:18	-.-
11/8/2022 19:18	-.-
11/8/2022 19:18	0.04
11/8/2022 19:19	-.-
11/8/2022 19:19	-.-
11/8/2022 19:19	0.04
11/8/2022 19:20	-.-
11/8/2022 19:20	-.-
11/8/2022 19:20	0.04
11/8/2022 19:21	-.-
11/8/2022 19:21	-.-
11/8/2022 19:21	0.04

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 22:02	0.05
12/8/2022 22:03	-.-
12/8/2022 22:04	-.-
12/8/2022 22:03	0.05
12/8/2022 22:04	-.-
12/8/2022 22:05	-.-
12/8/2022 22:04	0.06
12/8/2022 22:05	-.-
12/8/2022 22:06	-.-
12/8/2022 22:05	0.1
12/8/2022 22:06	-.-
12/8/2022 22:07	-.-
12/8/2022 22:06	0.06
12/8/2022 22:07	-.-
12/8/2022 22:08	-.-
12/8/2022 22:07	0.06
12/8/2022 22:08	-.-
12/8/2022 22:09	-.-
12/8/2022 22:08	0.16
12/8/2022 22:09	-.-
12/8/2022 22:10	-.-
12/8/2022 22:09	0.05
12/8/2022 22:10	-.-
12/8/2022 22:11	-.-
12/8/2022 22:10	0.19
12/8/2022 22:11	-.-
12/8/2022 22:12	-.-
12/8/2022 22:11	0.06
12/8/2022 22:12	-.-
12/8/2022 22:13	-.-
12/8/2022 22:12	0.07
12/8/2022 22:13	-.-
12/8/2022 22:14	-.-
12/8/2022 22:13	0.13
12/8/2022 22:14	-.-
12/8/2022 22:15	-.-
12/8/2022 22:14	0.06
12/8/2022 22:15	-.-
12/8/2022 22:16	-.-
12/8/2022 22:15	0.05
12/8/2022 22:16	-.-
12/8/2022 22:17	-.-
12/8/2022 22:16	0.06

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 22:59	0.04
8/8/2022 23:00	-.-
8/8/2022 23:01	-.-
8/8/2022 23:00	0.04
8/8/2022 23:01	-.-
8/8/2022 23:02	-.-
8/8/2022 23:01	0.04
8/8/2022 23:02	-.-
8/8/2022 23:03	-.-
8/8/2022 23:02	0.04
8/8/2022 23:03	-.-
8/8/2022 23:04	-.-
8/8/2022 23:03	0.04
8/8/2022 23:04	-.-
8/8/2022 23:05	-.-
8/8/2022 23:04	0.04
8/8/2022 23:05	-.-
8/8/2022 23:06	-.-
8/8/2022 23:05	0.05
8/8/2022 23:06	-.-
8/8/2022 23:07	-.-
8/8/2022 23:06	0.05
8/8/2022 23:07	-.-
8/8/2022 23:08	-.-
8/8/2022 23:07	0.04
8/8/2022 23:08	-.-
8/8/2022 23:09	-.-
8/8/2022 23:08	0.05
8/8/2022 23:09	-.-
8/8/2022 23:10	-.-
8/8/2022 23:09	0.04
8/8/2022 23:10	-.-
8/8/2022 23:11	-.-
8/8/2022 23:10	0.05
8/8/2022 23:11	-.-
8/8/2022 23:12	-.-
8/8/2022 23:11	0.05
8/8/2022 23:12	-.-
8/8/2022 23:13	-.-
8/8/2022 23:12	0.05
8/8/2022 23:13	-.-
8/8/2022 23:14	-.-
8/8/2022 23:13	0.05

Vibration data Station V1 15-16 Aug 2022		Vibration data Station V2 11-12 Aug 2022		Vibration data Station V3 12-13 Aug 2022		Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)
16/8/2022 0:13	-.-	11/8/2022 19:22	-.-	12/8/2022 22:17	-.-	8/8/2022 23:14	-.-
16/8/2022 0:14	-.-	11/8/2022 19:22	-.-	12/8/2022 22:18	-.-	8/8/2022 23:15	-.-
16/8/2022 0:13	0.06	11/8/2022 19:22	0.04	12/8/2022 22:17	0.19	8/8/2022 23:14	0.04
16/8/2022 0:14	-.-	11/8/2022 19:23	-.-	12/8/2022 22:18	-.-	8/8/2022 23:15	-.-
16/8/2022 0:15	-.-	11/8/2022 19:23	-.-	12/8/2022 22:19	-.-	8/8/2022 23:16	-.-
16/8/2022 0:14	0.08	11/8/2022 19:23	0.04	12/8/2022 22:18	0.05	8/8/2022 23:15	0.04
16/8/2022 0:15	-.-	11/8/2022 19:24	-.-	12/8/2022 22:19	-.-	8/8/2022 23:16	-.-
16/8/2022 0:16	-.-	11/8/2022 19:24	-.-	12/8/2022 22:20	-.-	8/8/2022 23:17	-.-
16/8/2022 0:15	0.06	11/8/2022 19:24	0.04	12/8/2022 22:19	0.1	8/8/2022 23:16	0.04
16/8/2022 0:16	-.-	11/8/2022 19:25	-.-	12/8/2022 22:20	-.-	8/8/2022 23:17	-.-
16/8/2022 0:17	-.-	11/8/2022 19:25	-.-	12/8/2022 22:21	-.-	8/8/2022 23:18	-.-
16/8/2022 0:16	0.06	11/8/2022 19:25	0.04	12/8/2022 22:20	0.05	8/8/2022 23:17	0.05
16/8/2022 0:17	-.-	11/8/2022 19:26	-.-	12/8/2022 22:21	-.-	8/8/2022 23:18	-.-
16/8/2022 0:18	-.-	11/8/2022 19:26	-.-	12/8/2022 22:22	-.-	8/8/2022 23:19	-.-
16/8/2022 0:17	0.05	11/8/2022 19:26	0.04	12/8/2022 22:21	0.09	8/8/2022 23:18	0.05
16/8/2022 0:18	-.-	11/8/2022 19:27	-.-	12/8/2022 22:22	-.-	8/8/2022 23:19	-.-
16/8/2022 0:19	-.-	11/8/2022 19:27	-.-	12/8/2022 22:23	-.-	8/8/2022 23:20	-.-
16/8/2022 0:18	0.06	11/8/2022 19:27	0.04	12/8/2022 22:22	0.05	8/8/2022 23:19	0.04
16/8/2022 0:19	-.-	11/8/2022 19:28	-.-	12/8/2022 22:23	-.-	8/8/2022 23:20	-.-
16/8/2022 0:20	-.-	11/8/2022 19:28	-.-	12/8/2022 22:24	-.-	8/8/2022 23:21	-.-
16/8/2022 0:19	0.05	11/8/2022 19:28	0.05	12/8/2022 22:23	0.05	8/8/2022 23:20	0.04
16/8/2022 0:20	-.-	11/8/2022 19:29	-.-	12/8/2022 22:24	-.-	8/8/2022 23:21	-.-
16/8/2022 0:21	-.-	11/8/2022 19:29	-.-	12/8/2022 22:25	-.-	8/8/2022 23:22	-.-
16/8/2022 0:20	0.1	11/8/2022 19:29	0.05	12/8/2022 22:24	0.1	8/8/2022 23:21	0.04
16/8/2022 0:21	-.-	11/8/2022 19:30	-.-	12/8/2022 22:25	-.-	8/8/2022 23:22	-.-
16/8/2022 0:22	-.-	11/8/2022 19:30	-.-	12/8/2022 22:26	-.-	8/8/2022 23:23	-.-
16/8/2022 0:21	0.07	11/8/2022 19:30	0.04	12/8/2022 22:25	0.14	8/8/2022 23:22	0.04
16/8/2022 0:22	-.-	11/8/2022 19:31	-.-	12/8/2022 22:26	-.-	8/8/2022 23:23	-.-
16/8/2022 0:23	-.-	11/8/2022 19:31	-.-	12/8/2022 22:27	-.-	8/8/2022 23:24	-.-
16/8/2022 0:22	0.08	11/8/2022 19:31	0.04	12/8/2022 22:26	0.06	8/8/2022 23:23	0.04
16/8/2022 0:23	-.-	11/8/2022 19:32	-.-	12/8/2022 22:27	-.-	8/8/2022 23:24	-.-
16/8/2022 0:24	-.-	11/8/2022 19:32	-.-	12/8/2022 22:28	-.-	8/8/2022 23:25	-.-
16/8/2022 0:23	0.12	11/8/2022 19:32	0.05	12/8/2022 22:27	0.05	8/8/2022 23:24	0.05
16/8/2022 0:24	-.-	11/8/2022 19:33	-.-	12/8/2022 22:28	-.-	8/8/2022 23:25	-.-
16/8/2022 0:25	-.-	11/8/2022 19:33	-.-	12/8/2022 22:29	-.-	8/8/2022 23:26	-.-
16/8/2022 0:24	0.06	11/8/2022 19:33	0.05	12/8/2022 22:28	0.07	8/8/2022 23:25	0.04
16/8/2022 0:25	-.-	11/8/2022 19:34	-.-	12/8/2022 22:29	-.-	8/8/2022 23:26	-.-
16/8/2022 0:26	-.-	11/8/2022 19:34	-.-	12/8/2022 22:30	-.-	8/8/2022 23:27	-.-
16/8/2022 0:25	0.04	11/8/2022 19:34	0.04	12/8/2022 22:29	0.06	8/8/2022 23:26	0.04
16/8/2022 0:26	-.-	11/8/2022 19:35	-.-	12/8/2022 22:30	-.-	8/8/2022 23:27	-.-
16/8/2022 0:27	-.-	11/8/2022 19:35	-.-	12/8/2022 22:31	-.-	8/8/2022 23:28	-.-
16/8/2022 0:26	0.04	11/8/2022 19:35	0.04	12/8/2022 22:30	0.08	8/8/2022 23:27	0.05
16/8/2022 0:27	-.-	11/8/2022 19:36	-.-	12/8/2022 22:31	-.-	8/8/2022 23:28	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
16/8/2022 0:28	-.-
16/8/2022 0:27	0.05
16/8/2022 0:28	-.-
16/8/2022 0:29	-.-
16/8/2022 0:28	0.05
16/8/2022 0:29	-.-
16/8/2022 0:30	-.-
16/8/2022 0:29	0.05
16/8/2022 0:30	-.-
16/8/2022 0:31	-.-
16/8/2022 0:30	0.04
16/8/2022 0:31	-.-
16/8/2022 0:32	-.-
16/8/2022 0:31	0.04
16/8/2022 0:32	-.-
16/8/2022 0:33	-.-
16/8/2022 0:32	0.05
16/8/2022 0:33	-.-
16/8/2022 0:34	-.-
16/8/2022 0:33	0.05
16/8/2022 0:34	-.-
16/8/2022 0:35	-.-
16/8/2022 0:34	0.05
16/8/2022 0:35	-.-
16/8/2022 0:36	-.-
16/8/2022 0:35	0.06
16/8/2022 0:36	-.-
16/8/2022 0:37	-.-
16/8/2022 0:36	0.06
16/8/2022 0:37	-.-
16/8/2022 0:38	-.-
16/8/2022 0:37	0.05
16/8/2022 0:38	-.-
16/8/2022 0:39	-.-
16/8/2022 0:38	0.12
16/8/2022 0:39	-.-
16/8/2022 0:40	-.-
16/8/2022 0:39	0.05
16/8/2022 0:40	-.-
16/8/2022 0:41	-.-
16/8/2022 0:40	0.05
16/8/2022 0:41	-.-
16/8/2022 0:42	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 19:36	-.-
11/8/2022 19:36	0.04
11/8/2022 19:37	-.-
11/8/2022 19:37	-.-
11/8/2022 19:37	0.05
11/8/2022 19:38	-.-
11/8/2022 19:38	-.-
11/8/2022 19:38	0.04
11/8/2022 19:39	-.-
11/8/2022 19:39	-.-
11/8/2022 19:39	0.04
11/8/2022 19:40	-.-
11/8/2022 19:40	-.-
11/8/2022 19:40	0.05
11/8/2022 19:41	-.-
11/8/2022 19:41	-.-
11/8/2022 19:41	0.04
11/8/2022 19:42	-.-
11/8/2022 19:42	-.-
11/8/2022 19:42	0.04
11/8/2022 19:43	-.-
11/8/2022 19:43	-.-
11/8/2022 19:43	0.04
11/8/2022 19:44	-.-
11/8/2022 19:44	-.-
11/8/2022 19:44	0.04
11/8/2022 19:45	-.-
11/8/2022 19:45	-.-
11/8/2022 19:45	0.05
11/8/2022 19:46	-.-
11/8/2022 19:46	-.-
11/8/2022 19:46	0.04
11/8/2022 19:47	-.-
11/8/2022 19:47	-.-
11/8/2022 19:47	0.05
11/8/2022 19:48	-.-
11/8/2022 19:48	-.-
11/8/2022 19:48	0.05
11/8/2022 19:49	-.-
11/8/2022 19:49	-.-
11/8/2022 19:49	0.04
11/8/2022 19:50	-.-
11/8/2022 19:50	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 22:32	-.-
12/8/2022 22:31	0.05
12/8/2022 22:32	-.-
12/8/2022 22:33	-.-
12/8/2022 22:32	0.2
12/8/2022 22:33	-.-
12/8/2022 22:34	-.-
12/8/2022 22:33	0.06
12/8/2022 22:34	-.-
12/8/2022 22:35	-.-
12/8/2022 22:34	0.05
12/8/2022 22:35	-.-
12/8/2022 22:36	-.-
12/8/2022 22:35	0.15
12/8/2022 22:36	-.-
12/8/2022 22:37	-.-
12/8/2022 22:36	0.07
12/8/2022 22:37	-.-
12/8/2022 22:38	-.-
12/8/2022 22:37	0.09
12/8/2022 22:38	-.-
12/8/2022 22:39	-.-
12/8/2022 22:38	0.09
12/8/2022 22:39	-.-
12/8/2022 22:40	-.-
12/8/2022 22:39	0.05
12/8/2022 22:40	-.-
12/8/2022 22:41	-.-
12/8/2022 22:40	0.11
12/8/2022 22:41	-.-
12/8/2022 22:42	-.-
12/8/2022 22:41	0.08
12/8/2022 22:42	-.-
12/8/2022 22:43	-.-
12/8/2022 22:42	0.05
12/8/2022 22:43	-.-
12/8/2022 22:44	-.-
12/8/2022 22:43	0.05
12/8/2022 22:44	-.-
12/8/2022 22:45	-.-
12/8/2022 22:44	0.2
12/8/2022 22:45	-.-
12/8/2022 22:46	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 23:29	-.-
8/8/2022 23:28	0.04
8/8/2022 23:29	-.-
8/8/2022 23:30	-.-
8/8/2022 23:29	0.04
8/8/2022 23:30	-.-
8/8/2022 23:31	-.-
8/8/2022 23:30	0.04
8/8/2022 23:31	-.-
8/8/2022 23:32	-.-
8/8/2022 23:31	0.04
8/8/2022 23:32	-.-
8/8/2022 23:33	-.-
8/8/2022 23:32	0.05
8/8/2022 23:33	-.-
8/8/2022 23:34	-.-
8/8/2022 23:33	0.05
8/8/2022 23:34	-.-
8/8/2022 23:35	-.-
8/8/2022 23:34	0.04
8/8/2022 23:35	-.-
8/8/2022 23:36	-.-
8/8/2022 23:35	0.05
8/8/2022 23:36	-.-
8/8/2022 23:37	-.-
8/8/2022 23:36	0.04
8/8/2022 23:37	-.-
8/8/2022 23:38	-.-
8/8/2022 23:37	0.04
8/8/2022 23:38	-.-
8/8/2022 23:39	-.-
8/8/2022 23:38	0.04
8/8/2022 23:39	-.-
8/8/2022 23:40	-.-
8/8/2022 23:39	0.05
8/8/2022 23:40	-.-
8/8/2022 23:41	-.-
8/8/2022 23:40	0.04
8/8/2022 23:41	-.-
8/8/2022 23:42	-.-
8/8/2022 23:41	0.04
8/8/2022 23:42	-.-
8/8/2022 23:43	-.-

Vibration data Station V1 15-16 Aug 2022		Vibration data Station V2 11-12 Aug 2022		Vibration data Station V3 12-13 Aug 2022		Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)
16/8/2022 0:41	0.05	11/8/2022 19:50	0.04	12/8/2022 22:45	0.06	8/8/2022 23:42	0.04
16/8/2022 0:42	-.-	11/8/2022 19:51	-.-	12/8/2022 22:46	-.-	8/8/2022 23:43	-.-
16/8/2022 0:43	-.-	11/8/2022 19:51	-.-	12/8/2022 22:47	-.-	8/8/2022 23:44	-.-
16/8/2022 0:42	0.1	11/8/2022 19:51	0.04	12/8/2022 22:46	0.18	8/8/2022 23:43	0.04
16/8/2022 0:43	-.-	11/8/2022 19:52	-.-	12/8/2022 22:47	-.-	8/8/2022 23:44	-.-
16/8/2022 0:44	-.-	11/8/2022 19:52	-.-	12/8/2022 22:48	-.-	8/8/2022 23:45	-.-
16/8/2022 0:43	0.07	11/8/2022 19:52	0.04	12/8/2022 22:47	0.05	8/8/2022 23:44	0.04
16/8/2022 0:44	-.-	11/8/2022 19:53	-.-	12/8/2022 22:48	-.-	8/8/2022 23:45	-.-
16/8/2022 0:45	-.-	11/8/2022 19:53	-.-	12/8/2022 22:49	-.-	8/8/2022 23:46	-.-
16/8/2022 0:44	0.07	11/8/2022 19:53	0.05	12/8/2022 22:48	0.11	8/8/2022 23:45	0.04
16/8/2022 0:45	-.-	11/8/2022 19:54	-.-	12/8/2022 22:49	-.-	8/8/2022 23:46	-.-
16/8/2022 0:46	-.-	11/8/2022 19:54	-.-	12/8/2022 22:50	-.-	8/8/2022 23:47	-.-
16/8/2022 0:45	0.06	11/8/2022 19:54	0.04	12/8/2022 22:49	0.07	8/8/2022 23:46	0.05
16/8/2022 0:46	-.-	11/8/2022 19:55	-.-	12/8/2022 22:50	-.-	8/8/2022 23:47	-.-
16/8/2022 0:47	-.-	11/8/2022 19:55	-.-	12/8/2022 22:51	-.-	8/8/2022 23:48	-.-
16/8/2022 0:46	0.05	11/8/2022 19:55	0.04	12/8/2022 22:50	0.08	8/8/2022 23:47	0.04
16/8/2022 0:47	-.-	11/8/2022 19:56	-.-	12/8/2022 22:51	-.-	8/8/2022 23:48	-.-
16/8/2022 0:48	-.-	11/8/2022 19:56	-.-	12/8/2022 22:52	-.-	8/8/2022 23:49	-.-
16/8/2022 0:47	0.05	11/8/2022 19:56	0.04	12/8/2022 22:51	0.19	8/8/2022 23:48	0.05
16/8/2022 0:48	-.-	11/8/2022 19:57	-.-	12/8/2022 22:52	-.-	8/8/2022 23:49	-.-
16/8/2022 0:49	-.-	11/8/2022 19:57	-.-	12/8/2022 22:53	-.-	8/8/2022 23:50	-.-
16/8/2022 0:48	0.09	11/8/2022 19:57	0.05	12/8/2022 22:52	0.05	8/8/2022 23:49	0.05
16/8/2022 0:49	-.-	11/8/2022 19:58	-.-	12/8/2022 22:53	-.-	8/8/2022 23:50	-.-
16/8/2022 0:50	-.-	11/8/2022 19:58	-.-	12/8/2022 22:54	-.-	8/8/2022 23:51	-.-
16/8/2022 0:49	0.08	11/8/2022 19:58	0.05	12/8/2022 22:53	0.07	8/8/2022 23:50	0.04
16/8/2022 0:50	-.-	11/8/2022 19:59	-.-	12/8/2022 22:54	-.-	8/8/2022 23:51	-.-
16/8/2022 0:51	-.-	11/8/2022 19:59	-.-	12/8/2022 22:55	-.-	8/8/2022 23:52	-.-
16/8/2022 0:50	0.11	11/8/2022 19:59	0.04	12/8/2022 22:54	0.06	8/8/2022 23:51	0.05
16/8/2022 0:51	-.-	11/8/2022 20:00	-.-	12/8/2022 22:55	-.-	8/8/2022 23:52	-.-
16/8/2022 0:52	-.-	11/8/2022 20:00	-.-	12/8/2022 22:56	-.-	8/8/2022 23:53	-.-
16/8/2022 0:51	0.05	11/8/2022 20:00	0.04	12/8/2022 22:55	0.07	8/8/2022 23:52	0.04
16/8/2022 0:52	-.-	11/8/2022 20:01	-.-	12/8/2022 22:56	-.-	8/8/2022 23:53	-.-
16/8/2022 0:53	-.-	11/8/2022 20:01	-.-	12/8/2022 22:57	-.-	8/8/2022 23:54	-.-
16/8/2022 0:52	0.05	11/8/2022 20:01	0.04	12/8/2022 22:56	0.11	8/8/2022 23:53	0.05
16/8/2022 0:53	-.-	11/8/2022 20:02	-.-	12/8/2022 22:57	-.-	8/8/2022 23:54	-.-
16/8/2022 0:54	-.-	11/8/2022 20:02	-.-	12/8/2022 22:58	-.-	8/8/2022 23:55	-.-
16/8/2022 0:53	0.05	11/8/2022 20:02	0.05	12/8/2022 22:57	0.04	8/8/2022 23:54	0.04
16/8/2022 0:54	-.-	11/8/2022 20:03	-.-	12/8/2022 22:58	-.-	8/8/2022 23:55	-.-
16/8/2022 0:55	-.-	11/8/2022 20:03	-.-	12/8/2022 22:59	-.-	8/8/2022 23:56	-.-
16/8/2022 0:54	0.07	11/8/2022 20:03	0.05	12/8/2022 22:58	0.21	8/8/2022 23:55	0.04
16/8/2022 0:55	-.-	11/8/2022 20:04	-.-	12/8/2022 22:59	-.-	8/8/2022 23:56	-.-
16/8/2022 0:56	-.-	11/8/2022 20:04	-.-	12/8/2022 23:00	-.-	8/8/2022 23:57	-.-
16/8/2022 0:55	0.09	11/8/2022 20:04	0.04	12/8/2022 22:59	0.05	8/8/2022 23:56	0.04

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
16/8/2022 0:56	-.-
16/8/2022 0:57	-.-
16/8/2022 0:56	0.07
16/8/2022 0:57	-.-
16/8/2022 0:58	-.-
16/8/2022 0:57	0.26
16/8/2022 0:58	-.-
16/8/2022 0:59	-.-
16/8/2022 0:58	0.05
16/8/2022 0:59	-.-
16/8/2022 1:00	-.-
16/8/2022 0:59	0.05
16/8/2022 1:00	-.-
16/8/2022 1:01	-.-
16/8/2022 1:00	0.1
16/8/2022 1:01	-.-
16/8/2022 1:02	-.-
16/8/2022 1:01	0.11
16/8/2022 1:02	-.-
16/8/2022 1:03	-.-
16/8/2022 1:02	0.05
16/8/2022 1:03	-.-
16/8/2022 1:04	-.-
16/8/2022 1:03	0.05
16/8/2022 1:04	-.-
16/8/2022 1:05	-.-
16/8/2022 1:04	0.05
16/8/2022 1:05	-.-
16/8/2022 1:06	-.-
16/8/2022 1:05	0.05
16/8/2022 1:06	-.-
16/8/2022 1:07	-.-
16/8/2022 1:06	0.06
16/8/2022 1:07	-.-
16/8/2022 1:08	-.-
16/8/2022 1:07	0.05
16/8/2022 1:08	-.-
16/8/2022 1:09	-.-
16/8/2022 1:08	0.05
16/8/2022 1:09	-.-
16/8/2022 1:10	-.-
16/8/2022 1:09	0.06
16/8/2022 1:10	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 20:05	-.-
11/8/2022 20:05	-.-
11/8/2022 20:05	0.05
11/8/2022 20:06	-.-
11/8/2022 20:06	-.-
11/8/2022 20:06	0.05
11/8/2022 20:07	-.-
11/8/2022 20:07	-.-
11/8/2022 20:07	0.05
11/8/2022 20:08	-.-
11/8/2022 20:08	-.-
11/8/2022 20:08	0.04
11/8/2022 20:09	-.-
11/8/2022 20:09	-.-
11/8/2022 20:09	0.05
11/8/2022 20:10	-.-
11/8/2022 20:10	-.-
11/8/2022 20:10	0.04
11/8/2022 20:11	-.-
11/8/2022 20:11	-.-
11/8/2022 20:11	0.05
11/8/2022 20:12	-.-
11/8/2022 20:12	-.-
11/8/2022 20:12	0.04
11/8/2022 20:13	-.-
11/8/2022 20:13	-.-
11/8/2022 20:13	0.04
11/8/2022 20:14	-.-
11/8/2022 20:14	-.-
11/8/2022 20:14	0.05
11/8/2022 20:15	-.-
11/8/2022 20:15	-.-
11/8/2022 20:15	0.04
11/8/2022 20:16	-.-
11/8/2022 20:16	-.-
11/8/2022 20:16	0.05
11/8/2022 20:17	-.-
11/8/2022 20:17	-.-
11/8/2022 20:17	0.04
11/8/2022 20:18	-.-
11/8/2022 20:18	-.-
11/8/2022 20:18	0.04
11/8/2022 20:19	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 23:00	-.-
12/8/2022 23:01	-.-
12/8/2022 23:00	0.05
12/8/2022 23:01	-.-
12/8/2022 23:02	-.-
12/8/2022 23:01	0.05
12/8/2022 23:02	-.-
12/8/2022 23:03	-.-
12/8/2022 23:02	0.11
12/8/2022 23:03	-.-
12/8/2022 23:04	-.-
12/8/2022 23:03	0.09
12/8/2022 23:04	-.-
12/8/2022 23:05	-.-
12/8/2022 23:04	0.06
12/8/2022 23:05	-.-
12/8/2022 23:06	-.-
12/8/2022 23:05	0.14
12/8/2022 23:06	-.-
12/8/2022 23:07	-.-
12/8/2022 23:06	0.05
12/8/2022 23:07	-.-
12/8/2022 23:08	-.-
12/8/2022 23:07	0.05
12/8/2022 23:08	-.-
12/8/2022 23:09	-.-
12/8/2022 23:08	0.05
12/8/2022 23:09	-.-
12/8/2022 23:10	-.-
12/8/2022 23:09	0.05
12/8/2022 23:10	-.-
12/8/2022 23:11	-.-
12/8/2022 23:10	0.05
12/8/2022 23:11	-.-
12/8/2022 23:12	-.-
12/8/2022 23:11	0.09
12/8/2022 23:12	-.-
12/8/2022 23:13	-.-
12/8/2022 23:12	0.05
12/8/2022 23:13	-.-
12/8/2022 23:14	-.-
12/8/2022 23:13	0.12
12/8/2022 23:14	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
8/8/2022 23:57	-.-
8/8/2022 23:58	-.-
8/8/2022 23:57	0.05
8/8/2022 23:58	-.-
8/8/2022 23:59	-.-
8/8/2022 23:58	0.05
8/8/2022 23:59	-.-
9/8/2022 0:00	-.-
8/8/2022 23:59	0.05
9/8/2022 0:00	-.-
9/8/2022 0:01	-.-
9/8/2022 0:00	0.04
9/8/2022 0:01	-.-
9/8/2022 0:02	-.-
9/8/2022 0:01	0.04
9/8/2022 0:02	-.-
9/8/2022 0:03	-.-
9/8/2022 0:02	0.05
9/8/2022 0:03	-.-
9/8/2022 0:04	-.-
9/8/2022 0:03	0.04
9/8/2022 0:04	-.-
9/8/2022 0:05	-.-
9/8/2022 0:04	0.05
9/8/2022 0:05	-.-
9/8/2022 0:06	-.-
9/8/2022 0:05	0.05
9/8/2022 0:06	-.-
9/8/2022 0:07	-.-
9/8/2022 0:06	0.04
9/8/2022 0:07	-.-
9/8/2022 0:08	-.-
9/8/2022 0:07	0.04
9/8/2022 0:08	-.-
9/8/2022 0:09	-.-
9/8/2022 0:08	0.04
9/8/2022 0:09	-.-
9/8/2022 0:10	-.-
9/8/2022 0:09	0.05
9/8/2022 0:10	-.-
9/8/2022 0:11	-.-
9/8/2022 0:10	0.05
9/8/2022 0:11	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
16/8/2022 1:11	-.-
16/8/2022 1:10	0.05
16/8/2022 1:11	-.-
16/8/2022 1:12	-.-
16/8/2022 1:11	0.11
16/8/2022 1:12	-.-
16/8/2022 1:13	-.-
16/8/2022 1:12	0.07
16/8/2022 1:13	-.-
16/8/2022 1:14	-.-
16/8/2022 1:13	0.05
16/8/2022 1:14	-.-
16/8/2022 1:15	-.-
16/8/2022 1:14	0.05
16/8/2022 1:15	-.-
16/8/2022 1:16	-.-
16/8/2022 1:15	0.05
16/8/2022 1:16	-.-
16/8/2022 1:17	-.-
16/8/2022 1:16	0.05
16/8/2022 1:17	-.-
16/8/2022 1:18	-.-
16/8/2022 1:17	0.05
16/8/2022 1:18	-.-
16/8/2022 1:19	-.-
16/8/2022 1:18	0.05
16/8/2022 1:19	-.-
16/8/2022 1:20	-.-
16/8/2022 1:19	0.05
16/8/2022 1:20	-.-
16/8/2022 1:21	-.-
16/8/2022 1:20	0.05
16/8/2022 1:21	-.-
16/8/2022 1:22	-.-
16/8/2022 1:21	0.04
16/8/2022 1:22	-.-
16/8/2022 1:23	-.-
16/8/2022 1:22	0.05
16/8/2022 1:23	-.-
16/8/2022 1:24	-.-
16/8/2022 1:23	0.05
16/8/2022 1:24	-.-
16/8/2022 1:25	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 20:19	-.-
11/8/2022 20:19	0.05
11/8/2022 20:20	-.-
11/8/2022 20:20	-.-
11/8/2022 20:20	0.05
11/8/2022 20:21	-.-
11/8/2022 20:21	-.-
11/8/2022 20:21	0.05
11/8/2022 20:22	-.-
11/8/2022 20:22	-.-
11/8/2022 20:22	0.05
11/8/2022 20:23	-.-
11/8/2022 20:23	-.-
11/8/2022 20:23	0.04
11/8/2022 20:24	-.-
11/8/2022 20:24	-.-
11/8/2022 20:24	0.04
11/8/2022 20:25	-.-
11/8/2022 20:25	-.-
11/8/2022 20:25	0.04
11/8/2022 20:26	-.-
11/8/2022 20:26	-.-
11/8/2022 20:26	0.04
11/8/2022 20:27	-.-
11/8/2022 20:27	-.-
11/8/2022 20:27	0.04
11/8/2022 20:28	-.-
11/8/2022 20:28	-.-
11/8/2022 20:28	0.05
11/8/2022 20:29	-.-
11/8/2022 20:29	-.-
11/8/2022 20:29	0.04
11/8/2022 20:30	-.-
11/8/2022 20:30	-.-
11/8/2022 20:30	0.04
11/8/2022 20:31	-.-
11/8/2022 20:31	-.-
11/8/2022 20:31	0.04
11/8/2022 20:32	-.-
11/8/2022 20:32	-.-
11/8/2022 20:32	0.04
11/8/2022 20:33	-.-
11/8/2022 20:33	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 23:15	-.-
12/8/2022 23:14	0.05
12/8/2022 23:15	-.-
12/8/2022 23:16	-.-
12/8/2022 23:15	0.1
12/8/2022 23:16	-.-
12/8/2022 23:17	-.-
12/8/2022 23:16	0.08
12/8/2022 23:17	-.-
12/8/2022 23:18	-.-
12/8/2022 23:17	0.11
12/8/2022 23:18	-.-
12/8/2022 23:19	-.-
12/8/2022 23:18	0.06
12/8/2022 23:19	-.-
12/8/2022 23:20	-.-
12/8/2022 23:19	0.05
12/8/2022 23:20	-.-
12/8/2022 23:21	-.-
12/8/2022 23:20	0.13
12/8/2022 23:21	-.-
12/8/2022 23:22	-.-
12/8/2022 23:21	0.05
12/8/2022 23:22	-.-
12/8/2022 23:23	-.-
12/8/2022 23:22	0.05
12/8/2022 23:23	-.-
12/8/2022 23:24	-.-
12/8/2022 23:23	0.06
12/8/2022 23:24	-.-
12/8/2022 23:25	-.-
12/8/2022 23:24	0.05
12/8/2022 23:25	-.-
12/8/2022 23:26	-.-
12/8/2022 23:25	0.1
12/8/2022 23:26	-.-
12/8/2022 23:27	-.-
12/8/2022 23:26	0.05
12/8/2022 23:27	-.-
12/8/2022 23:28	-.-
12/8/2022 23:27	0.05
12/8/2022 23:28	-.-
12/8/2022 23:29	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 0:12	-.-
9/8/2022 0:11	0.05
9/8/2022 0:12	-.-
9/8/2022 0:13	-.-
9/8/2022 0:12	0.04
9/8/2022 0:13	-.-
9/8/2022 0:14	-.-
9/8/2022 0:13	0.04
9/8/2022 0:14	-.-
9/8/2022 0:15	-.-
9/8/2022 0:14	0.04
9/8/2022 0:15	-.-
9/8/2022 0:16	-.-
9/8/2022 0:15	0.04
9/8/2022 0:16	-.-
9/8/2022 0:17	-.-
9/8/2022 0:16	0.04
9/8/2022 0:17	-.-
9/8/2022 0:18	-.-
9/8/2022 0:17	0.04
9/8/2022 0:18	-.-
9/8/2022 0:19	-.-
9/8/2022 0:18	0.04
9/8/2022 0:19	-.-
9/8/2022 0:20	-.-
9/8/2022 0:19	0.04
9/8/2022 0:20	-.-
9/8/2022 0:21	-.-
9/8/2022 0:20	0.04
9/8/2022 0:21	-.-
9/8/2022 0:22	-.-
9/8/2022 0:21	0.04
9/8/2022 0:22	-.-
9/8/2022 0:23	-.-
9/8/2022 0:22	0.05
9/8/2022 0:23	-.-
9/8/2022 0:24	-.-
9/8/2022 0:23	0.04
9/8/2022 0:24	-.-
9/8/2022 0:25	-.-
9/8/2022 0:24	0.05
9/8/2022 0:25	-.-
9/8/2022 0:26	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
16/8/2022 1:24	0.06
16/8/2022 1:25	-.-
16/8/2022 1:26	-.-
16/8/2022 1:25	0.05
16/8/2022 1:26	-.-
16/8/2022 1:27	-.-
16/8/2022 1:26	0.07
16/8/2022 1:27	-.-
16/8/2022 1:28	-.-
16/8/2022 1:27	0.05
16/8/2022 1:28	-.-
16/8/2022 1:29	-.-
16/8/2022 1:28	0.04
16/8/2022 1:29	-.-
16/8/2022 1:30	-.-
16/8/2022 1:29	0.05
16/8/2022 1:30	-.-
16/8/2022 1:31	-.-
16/8/2022 1:30	0.05
16/8/2022 1:31	-.-
16/8/2022 1:32	-.-
16/8/2022 1:31	0.05
16/8/2022 1:32	-.-
16/8/2022 1:33	-.-
16/8/2022 1:32	0.05
16/8/2022 1:33	-.-
16/8/2022 1:34	-.-
16/8/2022 1:33	0.05
16/8/2022 1:34	-.-
16/8/2022 1:35	-.-
16/8/2022 1:34	0.05
16/8/2022 1:35	-.-
16/8/2022 1:36	-.-
16/8/2022 1:35	0.05
16/8/2022 1:36	-.-
16/8/2022 1:37	-.-
16/8/2022 1:36	0.05
16/8/2022 1:37	-.-
16/8/2022 1:38	-.-
16/8/2022 1:37	0.08
16/8/2022 1:38	-.-
16/8/2022 1:39	-.-
16/8/2022 1:38	0.09

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 20:33	0.04
11/8/2022 20:34	-.-
11/8/2022 20:34	-.-
11/8/2022 20:34	0.04
11/8/2022 20:35	-.-
11/8/2022 20:35	-.-
11/8/2022 20:35	0.05
11/8/2022 20:36	-.-
11/8/2022 20:36	-.-
11/8/2022 20:36	0.04
11/8/2022 20:37	-.-
11/8/2022 20:37	-.-
11/8/2022 20:37	0.04
11/8/2022 20:38	-.-
11/8/2022 20:38	-.-
11/8/2022 20:38	0.04
11/8/2022 20:39	-.-
11/8/2022 20:39	-.-
11/8/2022 20:39	0.05
11/8/2022 20:40	-.-
11/8/2022 20:40	-.-
11/8/2022 20:40	0.04
11/8/2022 20:41	-.-
11/8/2022 20:41	-.-
11/8/2022 20:41	0.05
11/8/2022 20:42	-.-
11/8/2022 20:42	-.-
11/8/2022 20:42	0.05
11/8/2022 20:43	-.-
11/8/2022 20:43	-.-
11/8/2022 20:43	0.05
11/8/2022 20:44	-.-
11/8/2022 20:44	-.-
11/8/2022 20:44	0.05
11/8/2022 20:45	-.-
11/8/2022 20:45	-.-
11/8/2022 20:45	0.04
11/8/2022 20:46	-.-
11/8/2022 20:46	-.-
11/8/2022 20:46	0.04
11/8/2022 20:47	-.-
11/8/2022 20:47	-.-
11/8/2022 20:47	0.05

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 23:28	0.05
12/8/2022 23:29	-.-
12/8/2022 23:30	-.-
12/8/2022 23:29	0.05
12/8/2022 23:30	-.-
12/8/2022 23:31	-.-
12/8/2022 23:30	0.17
12/8/2022 23:31	-.-
12/8/2022 23:32	-.-
12/8/2022 23:31	0.05
12/8/2022 23:32	-.-
12/8/2022 23:33	-.-
12/8/2022 23:32	0.17
12/8/2022 23:33	-.-
12/8/2022 23:34	-.-
12/8/2022 23:33	0.1
12/8/2022 23:34	-.-
12/8/2022 23:35	-.-
12/8/2022 23:34	0.04
12/8/2022 23:35	-.-
12/8/2022 23:36	-.-
12/8/2022 23:35	0.05
12/8/2022 23:36	-.-
12/8/2022 23:37	-.-
12/8/2022 23:36	0.06
12/8/2022 23:37	-.-
12/8/2022 23:38	-.-
12/8/2022 23:37	0.05
12/8/2022 23:38	-.-
12/8/2022 23:39	-.-
12/8/2022 23:38	0.05
12/8/2022 23:39	-.-
12/8/2022 23:40	-.-
12/8/2022 23:39	0.05
12/8/2022 23:40	-.-
12/8/2022 23:41	-.-
12/8/2022 23:40	0.13
12/8/2022 23:41	-.-
12/8/2022 23:42	-.-
12/8/2022 23:41	0.06
12/8/2022 23:42	-.-
12/8/2022 23:43	-.-
12/8/2022 23:42	0.08

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 0:25	0.04
9/8/2022 0:26	-.-
9/8/2022 0:27	-.-
9/8/2022 0:26	0.04
9/8/2022 0:27	-.-
9/8/2022 0:28	-.-
9/8/2022 0:27	0.05
9/8/2022 0:28	-.-
9/8/2022 0:29	-.-
9/8/2022 0:28	0.04
9/8/2022 0:29	-.-
9/8/2022 0:30	-.-
9/8/2022 0:29	0.05
9/8/2022 0:30	-.-
9/8/2022 0:31	-.-
9/8/2022 0:30	0.04
9/8/2022 0:31	-.-
9/8/2022 0:32	-.-
9/8/2022 0:31	0.04
9/8/2022 0:32	-.-
9/8/2022 0:33	-.-
9/8/2022 0:32	0.05
9/8/2022 0:33	-.-
9/8/2022 0:34	-.-
9/8/2022 0:33	0.04
9/8/2022 0:34	-.-
9/8/2022 0:35	-.-
9/8/2022 0:34	0.05
9/8/2022 0:35	-.-
9/8/2022 0:36	-.-
9/8/2022 0:35	0.04
9/8/2022 0:36	-.-
9/8/2022 0:37	-.-
9/8/2022 0:36	0.04
9/8/2022 0:37	-.-
9/8/2022 0:38	-.-
9/8/2022 0:37	0.04
9/8/2022 0:38	-.-
9/8/2022 0:39	-.-
9/8/2022 0:38	0.04
9/8/2022 0:39	-.-
9/8/2022 0:40	-.-
9/8/2022 0:39	0.04

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
16/8/2022 1:39	-.-
16/8/2022 1:40	-.-
16/8/2022 1:39	0.05
16/8/2022 1:40	-.-
16/8/2022 1:41	-.-
16/8/2022 1:40	0.06
16/8/2022 1:41	-.-
16/8/2022 1:42	-.-
16/8/2022 1:41	0.05
16/8/2022 1:42	-.-
16/8/2022 1:43	-.-
16/8/2022 1:42	0.06
16/8/2022 1:43	-.-
16/8/2022 1:44	-.-
16/8/2022 1:43	0.04
16/8/2022 1:44	-.-
16/8/2022 1:45	-.-
16/8/2022 1:44	0.13
16/8/2022 1:45	-.-
16/8/2022 1:46	-.-
16/8/2022 1:45	0.05
16/8/2022 1:46	-.-
16/8/2022 1:47	-.-
16/8/2022 1:46	0.05
16/8/2022 1:47	-.-
16/8/2022 1:48	-.-
16/8/2022 1:47	0.05
16/8/2022 1:48	-.-
16/8/2022 1:49	-.-
16/8/2022 1:48	0.04
16/8/2022 1:49	-.-
16/8/2022 1:50	-.-
16/8/2022 1:49	0.04
16/8/2022 1:50	-.-
16/8/2022 1:51	-.-
16/8/2022 1:50	0.04
16/8/2022 1:51	-.-
16/8/2022 1:52	-.-
16/8/2022 1:51	0.06
16/8/2022 1:52	-.-
16/8/2022 1:53	-.-
16/8/2022 1:52	0.05
16/8/2022 1:53	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 20:48	-.-
11/8/2022 20:48	-.-
11/8/2022 20:48	0.04
11/8/2022 20:49	-.-
11/8/2022 20:49	-.-
11/8/2022 20:49	0.06
11/8/2022 20:50	-.-
11/8/2022 20:50	-.-
11/8/2022 20:50	0.05
11/8/2022 20:51	-.-
11/8/2022 20:51	-.-
11/8/2022 20:51	0.06
11/8/2022 20:52	-.-
11/8/2022 20:52	-.-
11/8/2022 20:52	0.05
11/8/2022 20:53	-.-
11/8/2022 20:53	-.-
11/8/2022 20:53	0.04
11/8/2022 20:54	-.-
11/8/2022 20:54	-.-
11/8/2022 20:54	0.04
11/8/2022 20:55	-.-
11/8/2022 20:55	-.-
11/8/2022 20:55	0.05
11/8/2022 20:56	-.-
11/8/2022 20:56	-.-
11/8/2022 20:56	0.04
11/8/2022 20:57	-.-
11/8/2022 20:57	-.-
11/8/2022 20:57	0.04
11/8/2022 20:58	-.-
11/8/2022 20:58	-.-
11/8/2022 20:58	0.05
11/8/2022 20:59	-.-
11/8/2022 20:59	-.-
11/8/2022 20:59	0.05
11/8/2022 21:00	-.-
11/8/2022 21:00	-.-
11/8/2022 21:00	0.05
11/8/2022 21:01	-.-
11/8/2022 21:01	-.-
11/8/2022 21:01	0.05
11/8/2022 21:02	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 23:43	-.-
12/8/2022 23:44	-.-
12/8/2022 23:43	0.21
12/8/2022 23:44	-.-
12/8/2022 23:45	-.-
12/8/2022 23:44	0.06
12/8/2022 23:45	-.-
12/8/2022 23:46	-.-
12/8/2022 23:45	0.16
12/8/2022 23:46	-.-
12/8/2022 23:47	-.-
12/8/2022 23:46	0.12
12/8/2022 23:47	-.-
12/8/2022 23:48	-.-
12/8/2022 23:47	0.11
12/8/2022 23:48	-.-
12/8/2022 23:49	-.-
12/8/2022 23:48	0.05
12/8/2022 23:49	-.-
12/8/2022 23:50	-.-
12/8/2022 23:49	0.05
12/8/2022 23:50	-.-
12/8/2022 23:51	-.-
12/8/2022 23:50	0.05
12/8/2022 23:51	-.-
12/8/2022 23:52	-.-
12/8/2022 23:51	0.05
12/8/2022 23:52	-.-
12/8/2022 23:53	-.-
12/8/2022 23:52	0.14
12/8/2022 23:53	-.-
12/8/2022 23:54	-.-
12/8/2022 23:53	0.06
12/8/2022 23:54	-.-
12/8/2022 23:55	-.-
12/8/2022 23:54	0.1
12/8/2022 23:55	-.-
12/8/2022 23:56	-.-
12/8/2022 23:55	0.05
12/8/2022 23:56	-.-
12/8/2022 23:57	-.-
12/8/2022 23:56	0.09
12/8/2022 23:57	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 0:40	-.-
9/8/2022 0:41	-.-
9/8/2022 0:40	0.04
9/8/2022 0:41	-.-
9/8/2022 0:42	-.-
9/8/2022 0:41	0.05
9/8/2022 0:42	-.-
9/8/2022 0:43	-.-
9/8/2022 0:42	0.04
9/8/2022 0:43	-.-
9/8/2022 0:44	-.-
9/8/2022 0:43	0.04
9/8/2022 0:44	-.-
9/8/2022 0:45	-.-
9/8/2022 0:44	0.05
9/8/2022 0:45	-.-
9/8/2022 0:46	-.-
9/8/2022 0:45	0.05
9/8/2022 0:46	-.-
9/8/2022 0:47	-.-
9/8/2022 0:46	0.05
9/8/2022 0:47	-.-
9/8/2022 0:48	-.-
9/8/2022 0:47	0.04
9/8/2022 0:48	-.-
9/8/2022 0:49	-.-
9/8/2022 0:48	0.05
9/8/2022 0:49	-.-
9/8/2022 0:50	-.-
9/8/2022 0:49	0.04
9/8/2022 0:50	-.-
9/8/2022 0:51	-.-
9/8/2022 0:50	0.05
9/8/2022 0:51	-.-
9/8/2022 0:52	-.-
9/8/2022 0:51	0.04
9/8/2022 0:52	-.-
9/8/2022 0:53	-.-
9/8/2022 0:52	0.04
9/8/2022 0:53	-.-
9/8/2022 0:54	-.-
9/8/2022 0:53	0.04
9/8/2022 0:54	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
16/8/2022 1:54	-.-
16/8/2022 1:53	0.06
16/8/2022 1:54	-.-
16/8/2022 1:55	-.-
16/8/2022 1:54	0.05
16/8/2022 1:55	-.-
16/8/2022 1:56	-.-
16/8/2022 1:55	0.04
16/8/2022 1:56	-.-
16/8/2022 1:57	-.-
16/8/2022 1:56	0.04
16/8/2022 1:57	-.-
16/8/2022 1:58	-.-
16/8/2022 1:57	0.04
16/8/2022 1:58	-.-
16/8/2022 1:59	-.-
16/8/2022 1:58	0.04
16/8/2022 1:59	-.-
16/8/2022 2:00	-.-
16/8/2022 1:59	0.04
16/8/2022 2:00	-.-
16/8/2022 2:01	-.-
16/8/2022 2:00	0.05
16/8/2022 2:01	-.-
16/8/2022 2:02	-.-
16/8/2022 2:01	0.08
16/8/2022 2:02	-.-
16/8/2022 2:03	-.-
16/8/2022 2:02	0.04
16/8/2022 2:03	-.-
16/8/2022 2:04	-.-
16/8/2022 2:03	0.05
16/8/2022 2:04	-.-
16/8/2022 2:05	-.-
16/8/2022 2:04	0.05
16/8/2022 2:05	-.-
16/8/2022 2:06	-.-
16/8/2022 2:05	0.04
16/8/2022 2:06	-.-
16/8/2022 2:07	-.-
16/8/2022 2:06	0.04
16/8/2022 2:07	-.-
16/8/2022 2:08	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 21:02	-.-
11/8/2022 21:02	0.05
11/8/2022 21:03	-.-
11/8/2022 21:03	-.-
11/8/2022 21:03	0.04
11/8/2022 21:04	-.-
11/8/2022 21:04	-.-
11/8/2022 21:04	0.04
11/8/2022 21:05	-.-
11/8/2022 21:05	-.-
11/8/2022 21:05	0.04
11/8/2022 21:06	-.-
11/8/2022 21:06	-.-
11/8/2022 21:06	0.04
11/8/2022 21:07	-.-
11/8/2022 21:07	-.-
11/8/2022 21:07	0.04
11/8/2022 21:08	-.-
11/8/2022 21:08	-.-
11/8/2022 21:08	0.04
11/8/2022 21:09	-.-
11/8/2022 21:09	-.-
11/8/2022 21:09	0.04
11/8/2022 21:10	-.-
11/8/2022 21:10	-.-
11/8/2022 21:10	0.05
11/8/2022 21:11	-.-
11/8/2022 21:11	-.-
11/8/2022 21:11	0.05
11/8/2022 21:12	-.-
11/8/2022 21:12	-.-
11/8/2022 21:12	0.04
11/8/2022 21:13	-.-
11/8/2022 21:13	-.-
11/8/2022 21:13	0.05
11/8/2022 21:14	-.-
11/8/2022 21:14	-.-
11/8/2022 21:14	0.05
11/8/2022 21:15	-.-
11/8/2022 21:15	-.-
11/8/2022 21:15	0.04
11/8/2022 21:16	-.-
11/8/2022 21:16	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 23:58	-.-
12/8/2022 23:57	0.06
12/8/2022 23:58	-.-
12/8/2022 23:59	-.-
12/8/2022 23:58	0.05
12/8/2022 23:59	-.-
13/8/2022 0:00	-.-
12/8/2022 23:59	0.04
13/8/2022 0:00	-.-
13/8/2022 0:01	-.-
13/8/2022 0:00	0.18
13/8/2022 0:01	-.-
13/8/2022 0:02	-.-
13/8/2022 0:01	0.13
13/8/2022 0:02	-.-
13/8/2022 0:03	-.-
13/8/2022 0:02	0.05
13/8/2022 0:03	-.-
13/8/2022 0:04	-.-
13/8/2022 0:03	0.05
13/8/2022 0:04	-.-
13/8/2022 0:05	-.-
13/8/2022 0:04	0.05
13/8/2022 0:05	-.-
13/8/2022 0:06	-.-
13/8/2022 0:05	0.06
13/8/2022 0:06	-.-
13/8/2022 0:07	-.-
13/8/2022 0:06	0.05
13/8/2022 0:07	-.-
13/8/2022 0:08	-.-
13/8/2022 0:07	0.05
13/8/2022 0:08	-.-
13/8/2022 0:09	-.-
13/8/2022 0:08	0.06
13/8/2022 0:09	-.-
13/8/2022 0:10	-.-
13/8/2022 0:09	0.05
13/8/2022 0:10	-.-
13/8/2022 0:11	-.-
13/8/2022 0:10	0.06
13/8/2022 0:11	-.-
13/8/2022 0:12	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 0:55	-.-
9/8/2022 0:54	0.04
9/8/2022 0:55	-.-
9/8/2022 0:56	-.-
9/8/2022 0:55	0.04
9/8/2022 0:56	-.-
9/8/2022 0:57	-.-
9/8/2022 0:56	0.04
9/8/2022 0:57	-.-
9/8/2022 0:58	-.-
9/8/2022 0:57	0.05
9/8/2022 0:58	-.-
9/8/2022 0:59	-.-
9/8/2022 0:58	0.04
9/8/2022 0:59	-.-
9/8/2022 1:00	-.-
9/8/2022 0:59	0.04
9/8/2022 1:00	-.-
9/8/2022 1:01	-.-
9/8/2022 1:00	0.04
9/8/2022 1:01	-.-
9/8/2022 1:02	-.-
9/8/2022 1:01	0.05
9/8/2022 1:02	-.-
9/8/2022 1:03	-.-
9/8/2022 1:02	0.04
9/8/2022 1:03	-.-
9/8/2022 1:04	-.-
9/8/2022 1:03	0.04
9/8/2022 1:04	-.-
9/8/2022 1:05	-.-
9/8/2022 1:04	0.04
9/8/2022 1:05	-.-
9/8/2022 1:06	-.-
9/8/2022 1:05	0.04
9/8/2022 1:06	-.-
9/8/2022 1:07	-.-
9/8/2022 1:06	0.04
9/8/2022 1:07	-.-
9/8/2022 1:08	-.-
9/8/2022 1:07	0.05
9/8/2022 1:08	-.-
9/8/2022 1:09	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
16/8/2022 2:07	0.09
16/8/2022 2:08	-.-
16/8/2022 2:09	-.-
16/8/2022 2:08	0.05
16/8/2022 2:09	-.-
16/8/2022 2:10	-.-
16/8/2022 2:09	0.06
16/8/2022 2:10	-.-
16/8/2022 2:11	-.-
16/8/2022 2:10	0.05
16/8/2022 2:11	-.-
16/8/2022 2:12	-.-
16/8/2022 2:11	0.05
16/8/2022 2:12	-.-
16/8/2022 2:13	-.-
16/8/2022 2:12	0.06
16/8/2022 2:13	-.-
16/8/2022 2:14	-.-
16/8/2022 2:13	0.05
16/8/2022 2:14	-.-
16/8/2022 2:15	-.-
16/8/2022 2:14	0.07
16/8/2022 2:15	-.-
16/8/2022 2:16	-.-
16/8/2022 2:15	0.05
16/8/2022 2:16	-.-
16/8/2022 2:17	-.-
16/8/2022 2:16	0.05
16/8/2022 2:17	-.-
16/8/2022 2:18	-.-
16/8/2022 2:17	0.04
16/8/2022 2:18	-.-
16/8/2022 2:19	-.-
16/8/2022 2:18	0.04
16/8/2022 2:19	-.-
16/8/2022 2:20	-.-
16/8/2022 2:19	0.05
16/8/2022 2:20	-.-
16/8/2022 2:21	-.-
16/8/2022 2:20	0.05
16/8/2022 2:21	-.-
16/8/2022 2:22	-.-
16/8/2022 2:21	0.05

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 21:16	0.05
11/8/2022 21:17	-.-
11/8/2022 21:17	-.-
11/8/2022 21:17	0.05
11/8/2022 21:18	-.-
11/8/2022 21:18	-.-
11/8/2022 21:18	0.05
11/8/2022 21:19	-.-
11/8/2022 21:19	-.-
11/8/2022 21:19	0.04
11/8/2022 21:20	-.-
11/8/2022 21:20	-.-
11/8/2022 21:20	0.05
11/8/2022 21:21	-.-
11/8/2022 21:21	-.-
11/8/2022 21:21	0.05
11/8/2022 21:22	-.-
11/8/2022 21:22	-.-
11/8/2022 21:22	0.05
11/8/2022 21:23	-.-
11/8/2022 21:23	-.-
11/8/2022 21:23	0.04
11/8/2022 21:24	-.-
11/8/2022 21:24	-.-
11/8/2022 21:24	0.05
11/8/2022 21:25	-.-
11/8/2022 21:25	-.-
11/8/2022 21:25	0.05
11/8/2022 21:26	-.-
11/8/2022 21:26	-.-
11/8/2022 21:26	0.04
11/8/2022 21:27	-.-
11/8/2022 21:27	-.-
11/8/2022 21:27	0.05
11/8/2022 21:28	-.-
11/8/2022 21:28	-.-
11/8/2022 21:28	0.05
11/8/2022 21:29	-.-
11/8/2022 21:29	-.-
11/8/2022 21:29	0.04
11/8/2022 21:30	-.-
11/8/2022 21:30	-.-
11/8/2022 21:30	0.04

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 0:11	0.13
13/8/2022 0:12	-.-
13/8/2022 0:13	-.-
13/8/2022 0:12	0.04
13/8/2022 0:13	-.-
13/8/2022 0:14	-.-
13/8/2022 0:13	0.05
13/8/2022 0:14	-.-
13/8/2022 0:15	-.-
13/8/2022 0:14	0.05
13/8/2022 0:15	-.-
13/8/2022 0:16	-.-
13/8/2022 0:15	0.05
13/8/2022 0:16	-.-
13/8/2022 0:17	-.-
13/8/2022 0:16	0.05
13/8/2022 0:17	-.-
13/8/2022 0:18	-.-
13/8/2022 0:17	0.04
13/8/2022 0:18	-.-
13/8/2022 0:19	-.-
13/8/2022 0:18	0.11
13/8/2022 0:19	-.-
13/8/2022 0:20	-.-
13/8/2022 0:19	0.04
13/8/2022 0:20	-.-
13/8/2022 0:21	-.-
13/8/2022 0:20	0.06
13/8/2022 0:21	-.-
13/8/2022 0:22	-.-
13/8/2022 0:21	0.05
13/8/2022 0:22	-.-
13/8/2022 0:23	-.-
13/8/2022 0:22	0.14
13/8/2022 0:23	-.-
13/8/2022 0:24	-.-
13/8/2022 0:23	0.05
13/8/2022 0:24	-.-
13/8/2022 0:25	-.-
13/8/2022 0:24	0.06
13/8/2022 0:25	-.-
13/8/2022 0:26	-.-
13/8/2022 0:25	0.05

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 1:08	0.04
9/8/2022 1:09	-.-
9/8/2022 1:10	-.-
9/8/2022 1:09	0.05
9/8/2022 1:10	-.-
9/8/2022 1:11	-.-
9/8/2022 1:10	0.04
9/8/2022 1:11	-.-
9/8/2022 1:12	-.-
9/8/2022 1:11	0.04
9/8/2022 1:12	-.-
9/8/2022 1:13	-.-
9/8/2022 1:12	0.05
9/8/2022 1:13	-.-
9/8/2022 1:14	-.-
9/8/2022 1:13	0.04
9/8/2022 1:14	-.-
9/8/2022 1:15	-.-
9/8/2022 1:14	0.05
9/8/2022 1:15	-.-
9/8/2022 1:16	-.-
9/8/2022 1:15	0.05
9/8/2022 1:16	-.-
9/8/2022 1:17	-.-
9/8/2022 1:16	0.05
9/8/2022 1:17	-.-
9/8/2022 1:18	-.-
9/8/2022 1:17	0.04
9/8/2022 1:18	-.-
9/8/2022 1:19	-.-
9/8/2022 1:18	0.04
9/8/2022 1:19	-.-
9/8/2022 1:20	-.-
9/8/2022 1:19	0.04
9/8/2022 1:20	-.-
9/8/2022 1:21	-.-
9/8/2022 1:20	0.05
9/8/2022 1:21	-.-
9/8/2022 1:22	-.-
9/8/2022 1:21	0.04
9/8/2022 1:22	-.-
9/8/2022 1:23	-.-
9/8/2022 1:22	0.04

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
16/8/2022 2:22	-.-
16/8/2022 2:23	-.-
16/8/2022 2:22	0.04
16/8/2022 2:23	-.-
16/8/2022 2:24	-.-
16/8/2022 2:23	0.07
16/8/2022 2:24	-.-
16/8/2022 2:25	-.-
16/8/2022 2:24	0.05
16/8/2022 2:25	-.-
16/8/2022 2:26	-.-
16/8/2022 2:25	0.04
16/8/2022 2:26	-.-
16/8/2022 2:27	-.-
16/8/2022 2:26	0.05
16/8/2022 2:27	-.-
16/8/2022 2:28	-.-
16/8/2022 2:27	0.05
16/8/2022 2:28	-.-
16/8/2022 2:29	-.-
16/8/2022 2:28	0.05
16/8/2022 2:29	-.-
16/8/2022 2:30	-.-
16/8/2022 2:29	0.04
16/8/2022 2:30	-.-
16/8/2022 2:31	-.-
16/8/2022 2:30	0.05
16/8/2022 2:31	-.-
16/8/2022 2:32	-.-
16/8/2022 2:31	0.05
16/8/2022 2:32	-.-
16/8/2022 2:33	-.-
16/8/2022 2:32	0.1
16/8/2022 2:33	-.-
16/8/2022 2:34	-.-
16/8/2022 2:33	0.05
16/8/2022 2:34	-.-
16/8/2022 2:35	-.-
16/8/2022 2:34	0.05
16/8/2022 2:35	-.-
16/8/2022 2:36	-.-
16/8/2022 2:35	0.04
16/8/2022 2:36	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 21:31	-.-
11/8/2022 21:31	-.-
11/8/2022 21:31	0.04
11/8/2022 21:32	-.-
11/8/2022 21:32	-.-
11/8/2022 21:32	0.04
11/8/2022 21:33	-.-
11/8/2022 21:33	-.-
11/8/2022 21:33	0.05
11/8/2022 21:34	-.-
11/8/2022 21:34	-.-
11/8/2022 21:34	0.04
11/8/2022 21:35	-.-
11/8/2022 21:35	-.-
11/8/2022 21:35	0.05
11/8/2022 21:36	-.-
11/8/2022 21:36	-.-
11/8/2022 21:36	0.05
11/8/2022 21:37	-.-
11/8/2022 21:37	-.-
11/8/2022 21:37	0.05
11/8/2022 21:38	-.-
11/8/2022 21:38	-.-
11/8/2022 21:38	0.04
11/8/2022 21:39	-.-
11/8/2022 21:39	-.-
11/8/2022 21:39	0.04
11/8/2022 21:40	-.-
11/8/2022 21:40	-.-
11/8/2022 21:40	0.04
11/8/2022 21:41	-.-
11/8/2022 21:41	-.-
11/8/2022 21:41	0.05
11/8/2022 21:42	-.-
11/8/2022 21:42	-.-
11/8/2022 21:42	0.04
11/8/2022 21:43	-.-
11/8/2022 21:43	-.-
11/8/2022 21:43	0.04
11/8/2022 21:44	-.-
11/8/2022 21:44	-.-
11/8/2022 21:44	0.04
11/8/2022 21:45	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 0:26	-.-
13/8/2022 0:27	-.-
13/8/2022 0:26	0.05
13/8/2022 0:27	-.-
13/8/2022 0:28	-.-
13/8/2022 0:27	0.06
13/8/2022 0:28	-.-
13/8/2022 0:29	-.-
13/8/2022 0:28	0.05
13/8/2022 0:29	-.-
13/8/2022 0:30	-.-
13/8/2022 0:29	0.2
13/8/2022 0:30	-.-
13/8/2022 0:31	-.-
13/8/2022 0:30	0.04
13/8/2022 0:31	-.-
13/8/2022 0:32	-.-
13/8/2022 0:31	0.04
13/8/2022 0:32	-.-
13/8/2022 0:33	-.-
13/8/2022 0:32	0.05
13/8/2022 0:33	-.-
13/8/2022 0:34	-.-
13/8/2022 0:33	0.05
13/8/2022 0:34	-.-
13/8/2022 0:35	-.-
13/8/2022 0:34	0.07
13/8/2022 0:35	-.-
13/8/2022 0:36	-.-
13/8/2022 0:35	0.05
13/8/2022 0:36	-.-
13/8/2022 0:37	-.-
13/8/2022 0:36	0.22
13/8/2022 0:37	-.-
13/8/2022 0:38	-.-
13/8/2022 0:37	0.07
13/8/2022 0:38	-.-
13/8/2022 0:39	-.-
13/8/2022 0:38	0.05
13/8/2022 0:39	-.-
13/8/2022 0:40	-.-
13/8/2022 0:39	0.05
13/8/2022 0:40	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 1:23	-.-
9/8/2022 1:24	-.-
9/8/2022 1:23	0.04
9/8/2022 1:24	-.-
9/8/2022 1:25	-.-
9/8/2022 1:24	0.04
9/8/2022 1:25	-.-
9/8/2022 1:26	-.-
9/8/2022 1:25	0.04
9/8/2022 1:26	-.-
9/8/2022 1:27	-.-
9/8/2022 1:26	0.04
9/8/2022 1:27	-.-
9/8/2022 1:28	-.-
9/8/2022 1:27	0.04
9/8/2022 1:28	-.-
9/8/2022 1:29	-.-
9/8/2022 1:28	0.04
9/8/2022 1:29	-.-
9/8/2022 1:30	-.-
9/8/2022 1:29	0.05
9/8/2022 1:30	-.-
9/8/2022 1:31	-.-
9/8/2022 1:30	0.04
9/8/2022 1:31	-.-
9/8/2022 1:32	-.-
9/8/2022 1:31	0.05
9/8/2022 1:32	-.-
9/8/2022 1:33	-.-
9/8/2022 1:32	0.04
9/8/2022 1:33	-.-
9/8/2022 1:34	-.-
9/8/2022 1:33	0.04
9/8/2022 1:34	-.-
9/8/2022 1:35	-.-
9/8/2022 1:34	0.04
9/8/2022 1:35	-.-
9/8/2022 1:36	-.-
9/8/2022 1:35	0.04
9/8/2022 1:36	-.-
9/8/2022 1:37	-.-
9/8/2022 1:36	0.04
9/8/2022 1:37	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
16/8/2022 2:37	-.-
16/8/2022 2:36	0.04
16/8/2022 2:37	-.-
16/8/2022 2:38	-.-
16/8/2022 2:37	0.05
16/8/2022 2:38	-.-
16/8/2022 2:39	-.-
16/8/2022 2:38	0.04
16/8/2022 2:39	-.-
16/8/2022 2:40	-.-
16/8/2022 2:39	0.04
16/8/2022 2:40	-.-
16/8/2022 2:41	-.-
16/8/2022 2:40	0.05
16/8/2022 2:41	-.-
16/8/2022 2:42	-.-
16/8/2022 2:41	0.05
16/8/2022 2:42	-.-
16/8/2022 2:43	-.-
16/8/2022 2:42	0.05
16/8/2022 2:43	-.-
16/8/2022 2:44	-.-
16/8/2022 2:43	0.08
16/8/2022 2:44	-.-
16/8/2022 2:45	-.-
16/8/2022 2:44	0.05
16/8/2022 2:45	-.-
16/8/2022 2:46	-.-
16/8/2022 2:45	0.05
16/8/2022 2:46	-.-
16/8/2022 2:47	-.-
16/8/2022 2:46	0.04
16/8/2022 2:47	-.-
16/8/2022 2:48	-.-
16/8/2022 2:47	0.05
16/8/2022 2:48	-.-
16/8/2022 2:49	-.-
16/8/2022 2:48	0.06
16/8/2022 2:49	-.-
16/8/2022 2:50	-.-
16/8/2022 2:49	0.06
16/8/2022 2:50	-.-
16/8/2022 2:51	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 21:45	-.-
11/8/2022 21:45	0.04
11/8/2022 21:46	-.-
11/8/2022 21:46	-.-
11/8/2022 21:46	0.05
11/8/2022 21:47	-.-
11/8/2022 21:47	-.-
11/8/2022 21:47	0.04
11/8/2022 21:48	-.-
11/8/2022 21:48	-.-
11/8/2022 21:48	0.05
11/8/2022 21:49	-.-
11/8/2022 21:49	-.-
11/8/2022 21:49	0.04
11/8/2022 21:50	-.-
11/8/2022 21:50	-.-
11/8/2022 21:50	0.05
11/8/2022 21:51	-.-
11/8/2022 21:51	-.-
11/8/2022 21:51	0.04
11/8/2022 21:52	-.-
11/8/2022 21:52	-.-
11/8/2022 21:52	0.06
11/8/2022 21:53	-.-
11/8/2022 21:53	-.-
11/8/2022 21:53	0.05
11/8/2022 21:54	-.-
11/8/2022 21:54	-.-
11/8/2022 21:54	0.04
11/8/2022 21:55	-.-
11/8/2022 21:55	-.-
11/8/2022 21:55	0.04
11/8/2022 21:56	-.-
11/8/2022 21:56	-.-
11/8/2022 21:56	0.04
11/8/2022 21:57	-.-
11/8/2022 21:57	-.-
11/8/2022 21:57	0.04
11/8/2022 21:58	-.-
11/8/2022 21:58	-.-
11/8/2022 21:58	0.04
11/8/2022 21:59	-.-
11/8/2022 21:59	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 0:41	-.-
13/8/2022 0:40	0.04
13/8/2022 0:41	-.-
13/8/2022 0:42	-.-
13/8/2022 0:41	0.05
13/8/2022 0:42	-.-
13/8/2022 0:43	-.-
13/8/2022 0:42	0.14
13/8/2022 0:43	-.-
13/8/2022 0:44	-.-
13/8/2022 0:43	0.05
13/8/2022 0:44	-.-
13/8/2022 0:45	-.-
13/8/2022 0:44	0.06
13/8/2022 0:45	-.-
13/8/2022 0:46	-.-
13/8/2022 0:45	0.04
13/8/2022 0:46	-.-
13/8/2022 0:47	-.-
13/8/2022 0:46	0.05
13/8/2022 0:47	-.-
13/8/2022 0:48	-.-
13/8/2022 0:47	0.05
13/8/2022 0:48	-.-
13/8/2022 0:49	-.-
13/8/2022 0:48	0.06
13/8/2022 0:49	-.-
13/8/2022 0:50	-.-
13/8/2022 0:49	0.05
13/8/2022 0:50	-.-
13/8/2022 0:51	-.-
13/8/2022 0:50	0.05
13/8/2022 0:51	-.-
13/8/2022 0:52	-.-
13/8/2022 0:51	0.08
13/8/2022 0:52	-.-
13/8/2022 0:53	-.-
13/8/2022 0:52	0.05
13/8/2022 0:53	-.-
13/8/2022 0:54	-.-
13/8/2022 0:53	0.05
13/8/2022 0:54	-.-
13/8/2022 0:55	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 1:38	-.-
9/8/2022 1:37	0.04
9/8/2022 1:38	-.-
9/8/2022 1:39	-.-
9/8/2022 1:38	0.04
9/8/2022 1:39	-.-
9/8/2022 1:40	-.-
9/8/2022 1:39	0.04
9/8/2022 1:40	-.-
9/8/2022 1:41	-.-
9/8/2022 1:40	0.05
9/8/2022 1:41	-.-
9/8/2022 1:42	-.-
9/8/2022 1:41	0.04
9/8/2022 1:42	-.-
9/8/2022 1:43	-.-
9/8/2022 1:42	0.05
9/8/2022 1:43	-.-
9/8/2022 1:44	-.-
9/8/2022 1:43	0.04
9/8/2022 1:44	-.-
9/8/2022 1:45	-.-
9/8/2022 1:44	0.04
9/8/2022 1:45	-.-
9/8/2022 1:46	-.-
9/8/2022 1:45	0.04
9/8/2022 1:46	-.-
9/8/2022 1:47	-.-
9/8/2022 1:46	0.05
9/8/2022 1:47	-.-
9/8/2022 1:48	-.-
9/8/2022 1:47	0.05
9/8/2022 1:48	-.-
9/8/2022 1:49	-.-
9/8/2022 1:48	0.04
9/8/2022 1:49	-.-
9/8/2022 1:50	-.-
9/8/2022 1:49	0.04
9/8/2022 1:50	-.-
9/8/2022 1:51	-.-
9/8/2022 1:50	0.05
9/8/2022 1:51	-.-
9/8/2022 1:52	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
16/8/2022 2:50	0.06
16/8/2022 2:51	-.-
16/8/2022 2:52	-.-
16/8/2022 2:51	0.05
16/8/2022 2:52	-.-
16/8/2022 2:53	-.-
16/8/2022 2:52	0.05
16/8/2022 2:53	-.-
16/8/2022 2:54	-.-
16/8/2022 2:53	0.06
16/8/2022 2:54	-.-
16/8/2022 2:55	-.-
16/8/2022 2:54	0.09
16/8/2022 2:55	-.-
16/8/2022 2:56	-.-
16/8/2022 2:55	0.05
16/8/2022 2:56	-.-
16/8/2022 2:57	-.-
16/8/2022 2:56	0.05
16/8/2022 2:57	-.-
16/8/2022 2:58	-.-
16/8/2022 2:57	0.05
16/8/2022 2:58	-.-
16/8/2022 2:59	-.-
16/8/2022 2:58	0.04
16/8/2022 2:59	-.-
16/8/2022 3:00	-.-
16/8/2022 2:59	0.05
16/8/2022 3:00	-.-
16/8/2022 3:01	-.-
16/8/2022 3:00	0.07
16/8/2022 3:01	-.-
16/8/2022 3:02	-.-
16/8/2022 3:01	0.05
16/8/2022 3:02	-.-
16/8/2022 3:03	-.-
16/8/2022 3:02	0.04
16/8/2022 3:03	-.-
16/8/2022 3:04	-.-
16/8/2022 3:03	0.05
16/8/2022 3:04	-.-
16/8/2022 3:05	-.-
16/8/2022 3:04	0.07

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 21:59	0.04
11/8/2022 22:00	-.-
11/8/2022 22:00	-.-
11/8/2022 22:00	0.05
11/8/2022 22:01	-.-
11/8/2022 22:01	-.-
11/8/2022 22:01	0.06
11/8/2022 22:02	-.-
11/8/2022 22:02	-.-
11/8/2022 22:02	0.04
11/8/2022 22:03	-.-
11/8/2022 22:03	-.-
11/8/2022 22:03	0.05
11/8/2022 22:04	-.-
11/8/2022 22:04	-.-
11/8/2022 22:04	0.05
11/8/2022 22:05	-.-
11/8/2022 22:05	-.-
11/8/2022 22:05	0.05
11/8/2022 22:06	-.-
11/8/2022 22:06	-.-
11/8/2022 22:06	0.04
11/8/2022 22:07	-.-
11/8/2022 22:07	-.-
11/8/2022 22:07	0.04
11/8/2022 22:08	-.-
11/8/2022 22:08	-.-
11/8/2022 22:08	0.04
11/8/2022 22:09	-.-
11/8/2022 22:09	-.-
11/8/2022 22:09	0.05
11/8/2022 22:10	-.-
11/8/2022 22:10	-.-
11/8/2022 22:10	0.05
11/8/2022 22:11	-.-
11/8/2022 22:11	-.-
11/8/2022 22:11	0.04
11/8/2022 22:12	-.-
11/8/2022 22:12	-.-
11/8/2022 22:12	0.04
11/8/2022 22:13	-.-
11/8/2022 22:13	-.-
11/8/2022 22:13	0.04

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 0:54	0.05
13/8/2022 0:55	-.-
13/8/2022 0:56	-.-
13/8/2022 0:55	0.04
13/8/2022 0:56	-.-
13/8/2022 0:57	-.-
13/8/2022 0:56	0.05
13/8/2022 0:57	-.-
13/8/2022 0:58	-.-
13/8/2022 0:57	0.06
13/8/2022 0:58	-.-
13/8/2022 0:59	-.-
13/8/2022 0:58	0.05
13/8/2022 0:59	-.-
13/8/2022 1:00	-.-
13/8/2022 0:59	0.05
13/8/2022 1:00	-.-
13/8/2022 1:01	-.-
13/8/2022 1:00	0.05
13/8/2022 1:01	-.-
13/8/2022 1:02	-.-
13/8/2022 1:01	0.15
13/8/2022 1:02	-.-
13/8/2022 1:03	-.-
13/8/2022 1:02	0.06
13/8/2022 1:03	-.-
13/8/2022 1:04	-.-
13/8/2022 1:03	0.05
13/8/2022 1:04	-.-
13/8/2022 1:05	-.-
13/8/2022 1:04	0.16
13/8/2022 1:05	-.-
13/8/2022 1:06	-.-
13/8/2022 1:05	0.05
13/8/2022 1:06	-.-
13/8/2022 1:07	-.-
13/8/2022 1:06	0.04
13/8/2022 1:07	-.-
13/8/2022 1:08	-.-
13/8/2022 1:07	0.05
13/8/2022 1:08	-.-
13/8/2022 1:09	-.-
13/8/2022 1:08	0.06

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 1:51	0.05
9/8/2022 1:52	-.-
9/8/2022 1:53	-.-
9/8/2022 1:52	0.04
9/8/2022 1:53	-.-
9/8/2022 1:54	-.-
9/8/2022 1:53	0.04
9/8/2022 1:54	-.-
9/8/2022 1:55	-.-
9/8/2022 1:54	0.04
9/8/2022 1:55	-.-
9/8/2022 1:56	-.-
9/8/2022 1:55	0.04
9/8/2022 1:56	-.-
9/8/2022 1:57	-.-
9/8/2022 1:56	0.04
9/8/2022 1:57	-.-
9/8/2022 1:58	-.-
9/8/2022 1:57	0.04
9/8/2022 1:58	-.-
9/8/2022 1:59	-.-
9/8/2022 1:58	0.04
9/8/2022 1:59	-.-
9/8/2022 2:00	-.-
9/8/2022 1:59	0.04
9/8/2022 2:00	-.-
9/8/2022 2:01	-.-
9/8/2022 2:00	0.05
9/8/2022 2:01	-.-
9/8/2022 2:02	-.-
9/8/2022 2:01	0.04
9/8/2022 2:02	-.-
9/8/2022 2:03	-.-
9/8/2022 2:02	0.17
9/8/2022 2:03	-.-
9/8/2022 2:04	-.-
9/8/2022 2:03	0.37
9/8/2022 2:04	-.-
9/8/2022 2:05	-.-
9/8/2022 2:04	0.04
9/8/2022 2:05	-.-
9/8/2022 2:06	-.-
9/8/2022 2:05	0.04

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
16/8/2022 3:05	-.-
16/8/2022 3:06	-.-
16/8/2022 3:05	0.1
16/8/2022 3:06	-.-
16/8/2022 3:07	-.-
16/8/2022 3:06	0.04
16/8/2022 3:07	-.-
16/8/2022 3:08	-.-
16/8/2022 3:07	0.04
16/8/2022 3:08	-.-
16/8/2022 3:09	-.-
16/8/2022 3:08	0.04
16/8/2022 3:09	-.-
16/8/2022 3:10	-.-
16/8/2022 3:09	0.05
16/8/2022 3:10	-.-
16/8/2022 3:11	-.-
16/8/2022 3:10	0.05
16/8/2022 3:11	-.-
16/8/2022 3:12	-.-
16/8/2022 3:11	0.06
16/8/2022 3:12	-.-
16/8/2022 3:13	-.-
16/8/2022 3:12	0.05
16/8/2022 3:13	-.-
16/8/2022 3:14	-.-
16/8/2022 3:13	0.05
16/8/2022 3:14	-.-
16/8/2022 3:15	-.-
16/8/2022 3:14	0.04
16/8/2022 3:15	-.-
16/8/2022 3:16	-.-
16/8/2022 3:15	0.05
16/8/2022 3:16	-.-
16/8/2022 3:17	-.-
16/8/2022 3:16	0.04
16/8/2022 3:17	-.-
16/8/2022 3:18	-.-
16/8/2022 3:17	0.04
16/8/2022 3:18	-.-
16/8/2022 3:19	-.-
16/8/2022 3:18	0.05
16/8/2022 3:19	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 22:14	-.-
11/8/2022 22:14	-.-
11/8/2022 22:14	0.04
11/8/2022 22:15	-.-
11/8/2022 22:15	-.-
11/8/2022 22:15	0.04
11/8/2022 22:16	-.-
11/8/2022 22:16	-.-
11/8/2022 22:16	0.05
11/8/2022 22:17	-.-
11/8/2022 22:17	-.-
11/8/2022 22:17	0.05
11/8/2022 22:18	-.-
11/8/2022 22:18	-.-
11/8/2022 22:18	0.04
11/8/2022 22:19	-.-
11/8/2022 22:19	-.-
11/8/2022 22:19	0.04
11/8/2022 22:20	-.-
11/8/2022 22:20	-.-
11/8/2022 22:20	0.05
11/8/2022 22:21	-.-
11/8/2022 22:21	-.-
11/8/2022 22:21	0.04
11/8/2022 22:22	-.-
11/8/2022 22:22	-.-
11/8/2022 22:22	0.05
11/8/2022 22:23	-.-
11/8/2022 22:23	-.-
11/8/2022 22:23	0.04
11/8/2022 22:24	-.-
11/8/2022 22:24	-.-
11/8/2022 22:24	0.04
11/8/2022 22:25	-.-
11/8/2022 22:25	-.-
11/8/2022 22:25	0.05
11/8/2022 22:26	-.-
11/8/2022 22:26	-.-
11/8/2022 22:26	0.04
11/8/2022 22:27	-.-
11/8/2022 22:27	-.-
11/8/2022 22:27	0.04
11/8/2022 22:28	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 1:09	-.-
13/8/2022 1:10	-.-
13/8/2022 1:09	0.29
13/8/2022 1:10	-.-
13/8/2022 1:11	-.-
13/8/2022 1:10	0.16
13/8/2022 1:11	-.-
13/8/2022 1:12	-.-
13/8/2022 1:11	0.05
13/8/2022 1:12	-.-
13/8/2022 1:13	-.-
13/8/2022 1:12	0.05
13/8/2022 1:13	-.-
13/8/2022 1:14	-.-
13/8/2022 1:13	0.17
13/8/2022 1:14	-.-
13/8/2022 1:15	-.-
13/8/2022 1:14	0.05
13/8/2022 1:15	-.-
13/8/2022 1:16	-.-
13/8/2022 1:15	0.04
13/8/2022 1:16	-.-
13/8/2022 1:17	-.-
13/8/2022 1:16	0.05
13/8/2022 1:17	-.-
13/8/2022 1:18	-.-
13/8/2022 1:17	0.05
13/8/2022 1:18	-.-
13/8/2022 1:19	-.-
13/8/2022 1:18	0.05
13/8/2022 1:19	-.-
13/8/2022 1:20	-.-
13/8/2022 1:19	0.04
13/8/2022 1:20	-.-
13/8/2022 1:21	-.-
13/8/2022 1:20	0.04
13/8/2022 1:21	-.-
13/8/2022 1:22	-.-
13/8/2022 1:21	0.05
13/8/2022 1:22	-.-
13/8/2022 1:23	-.-
13/8/2022 1:22	0.05
13/8/2022 1:23	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 2:06	-.-
9/8/2022 2:07	-.-
9/8/2022 2:06	0.04
9/8/2022 2:07	-.-
9/8/2022 2:08	-.-
9/8/2022 2:07	0.04
9/8/2022 2:08	-.-
9/8/2022 2:09	-.-
9/8/2022 2:08	0.04
9/8/2022 2:09	-.-
9/8/2022 2:10	-.-
9/8/2022 2:09	0.04
9/8/2022 2:10	-.-
9/8/2022 2:11	-.-
9/8/2022 2:10	0.04
9/8/2022 2:11	-.-
9/8/2022 2:12	-.-
9/8/2022 2:11	0.04
9/8/2022 2:12	-.-
9/8/2022 2:13	-.-
9/8/2022 2:12	0.05
9/8/2022 2:13	-.-
9/8/2022 2:14	-.-
9/8/2022 2:13	0.05
9/8/2022 2:14	-.-
9/8/2022 2:15	-.-
9/8/2022 2:14	0.04
9/8/2022 2:15	-.-
9/8/2022 2:16	-.-
9/8/2022 2:15	0.05
9/8/2022 2:16	-.-
9/8/2022 2:17	-.-
9/8/2022 2:16	0.08
9/8/2022 2:17	-.-
9/8/2022 2:18	-.-
9/8/2022 2:17	0.04
9/8/2022 2:18	-.-
9/8/2022 2:19	-.-
9/8/2022 2:18	0.05
9/8/2022 2:19	-.-
9/8/2022 2:20	-.-
9/8/2022 2:19	0.05
9/8/2022 2:20	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
16/8/2022 3:20	-.-
16/8/2022 3:19	0.05
16/8/2022 3:20	-.-
16/8/2022 3:21	-.-
16/8/2022 3:20	0.07
16/8/2022 3:21	-.-
16/8/2022 3:22	-.-
16/8/2022 3:21	0.04
16/8/2022 3:22	-.-
16/8/2022 3:23	-.-
16/8/2022 3:22	0.05
16/8/2022 3:23	-.-
16/8/2022 3:24	-.-
16/8/2022 3:23	0.04
16/8/2022 3:24	-.-
16/8/2022 3:25	-.-
16/8/2022 3:24	0.04
16/8/2022 3:25	-.-
16/8/2022 3:26	-.-
16/8/2022 3:25	0.1
16/8/2022 3:26	-.-
16/8/2022 3:27	-.-
16/8/2022 3:26	0.05
16/8/2022 3:27	-.-
16/8/2022 3:28	-.-
16/8/2022 3:27	0.08
16/8/2022 3:28	-.-
16/8/2022 3:29	-.-
16/8/2022 3:28	0.06
16/8/2022 3:29	-.-
16/8/2022 3:30	-.-
16/8/2022 3:29	0.08
16/8/2022 3:30	-.-
16/8/2022 3:31	-.-
16/8/2022 3:30	0.04
16/8/2022 3:31	-.-
16/8/2022 3:32	-.-
16/8/2022 3:31	0.06
16/8/2022 3:32	-.-
16/8/2022 3:33	-.-
16/8/2022 3:32	0.04
16/8/2022 3:33	-.-
16/8/2022 3:34	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 22:28	-.-
11/8/2022 22:28	0.05
11/8/2022 22:29	-.-
11/8/2022 22:29	-.-
11/8/2022 22:29	0.05
11/8/2022 22:30	-.-
11/8/2022 22:30	-.-
11/8/2022 22:30	0.04
11/8/2022 22:31	-.-
11/8/2022 22:31	-.-
11/8/2022 22:31	0.04
11/8/2022 22:32	-.-
11/8/2022 22:32	-.-
11/8/2022 22:32	0.04
11/8/2022 22:33	-.-
11/8/2022 22:33	-.-
11/8/2022 22:33	0.04
11/8/2022 22:34	-.-
11/8/2022 22:34	-.-
11/8/2022 22:34	0.04
11/8/2022 22:35	-.-
11/8/2022 22:35	-.-
11/8/2022 22:35	0.05
11/8/2022 22:36	-.-
11/8/2022 22:36	-.-
11/8/2022 22:36	0.05
11/8/2022 22:37	-.-
11/8/2022 22:37	-.-
11/8/2022 22:37	0.04
11/8/2022 22:38	-.-
11/8/2022 22:38	-.-
11/8/2022 22:38	0.04
11/8/2022 22:39	-.-
11/8/2022 22:39	-.-
11/8/2022 22:39	0.04
11/8/2022 22:40	-.-
11/8/2022 22:40	-.-
11/8/2022 22:40	0.04
11/8/2022 22:41	-.-
11/8/2022 22:41	-.-
11/8/2022 22:41	0.04
11/8/2022 22:42	-.-
11/8/2022 22:42	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 1:24	-.-
13/8/2022 1:23	0.04
13/8/2022 1:24	-.-
13/8/2022 1:25	-.-
13/8/2022 1:24	0.05
13/8/2022 1:25	-.-
13/8/2022 1:26	-.-
13/8/2022 1:25	0.05
13/8/2022 1:26	-.-
13/8/2022 1:27	-.-
13/8/2022 1:26	0.05
13/8/2022 1:27	-.-
13/8/2022 1:28	-.-
13/8/2022 1:27	0.05
13/8/2022 1:28	-.-
13/8/2022 1:29	-.-
13/8/2022 1:28	0.04
13/8/2022 1:29	-.-
13/8/2022 1:30	-.-
13/8/2022 1:29	0.05
13/8/2022 1:30	-.-
13/8/2022 1:31	-.-
13/8/2022 1:30	0.05
13/8/2022 1:31	-.-
13/8/2022 1:32	-.-
13/8/2022 1:31	0.05
13/8/2022 1:32	-.-
13/8/2022 1:33	-.-
13/8/2022 1:32	0.04
13/8/2022 1:33	-.-
13/8/2022 1:34	-.-
13/8/2022 1:33	0.17
13/8/2022 1:34	-.-
13/8/2022 1:35	-.-
13/8/2022 1:34	0.05
13/8/2022 1:35	-.-
13/8/2022 1:36	-.-
13/8/2022 1:35	0.04
13/8/2022 1:36	-.-
13/8/2022 1:37	-.-
13/8/2022 1:36	0.05
13/8/2022 1:37	-.-
13/8/2022 1:38	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 2:21	-.-
9/8/2022 2:20	0.4
9/8/2022 2:21	-.-
9/8/2022 2:22	-.-
9/8/2022 2:21	0.04
9/8/2022 2:22	-.-
9/8/2022 2:23	-.-
9/8/2022 2:22	0.04
9/8/2022 2:23	-.-
9/8/2022 2:24	-.-
9/8/2022 2:23	0.04
9/8/2022 2:24	-.-
9/8/2022 2:25	-.-
9/8/2022 2:24	0.04
9/8/2022 2:25	-.-
9/8/2022 2:26	-.-
9/8/2022 2:25	0.04
9/8/2022 2:26	-.-
9/8/2022 2:27	-.-
9/8/2022 2:26	0.04
9/8/2022 2:27	-.-
9/8/2022 2:28	-.-
9/8/2022 2:27	0.04
9/8/2022 2:28	-.-
9/8/2022 2:29	-.-
9/8/2022 2:28	0.04
9/8/2022 2:29	-.-
9/8/2022 2:30	-.-
9/8/2022 2:29	0.04
9/8/2022 2:30	-.-
9/8/2022 2:31	-.-
9/8/2022 2:30	0.05
9/8/2022 2:31	-.-
9/8/2022 2:32	-.-
9/8/2022 2:31	0.05
9/8/2022 2:32	-.-
9/8/2022 2:33	-.-
9/8/2022 2:32	0.04
9/8/2022 2:33	-.-
9/8/2022 2:34	-.-
9/8/2022 2:33	0.04
9/8/2022 2:34	-.-
9/8/2022 2:35	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
16/8/2022 3:33	0.05
16/8/2022 3:34	-.-
16/8/2022 3:35	-.-
16/8/2022 3:34	0.05
16/8/2022 3:35	-.-
16/8/2022 3:36	-.-
16/8/2022 3:35	0.04
16/8/2022 3:36	-.-
16/8/2022 3:37	-.-
16/8/2022 3:36	0.04
16/8/2022 3:37	-.-
16/8/2022 3:38	-.-
16/8/2022 3:37	0.05
16/8/2022 3:38	-.-
16/8/2022 3:39	-.-
16/8/2022 3:38	0.05
16/8/2022 3:39	-.-
16/8/2022 3:40	-.-
16/8/2022 3:39	0.05
16/8/2022 3:40	-.-
16/8/2022 3:41	-.-
16/8/2022 3:40	0.04
16/8/2022 3:41	-.-
16/8/2022 3:42	-.-
16/8/2022 3:41	0.05
16/8/2022 3:42	-.-
16/8/2022 3:43	-.-
16/8/2022 3:42	0.06
16/8/2022 3:43	-.-
16/8/2022 3:44	-.-
16/8/2022 3:43	0.04
16/8/2022 3:44	-.-
16/8/2022 3:45	-.-
16/8/2022 3:44	0.05
16/8/2022 3:45	-.-
16/8/2022 3:46	-.-
16/8/2022 3:45	0.04
16/8/2022 3:46	-.-
16/8/2022 3:47	-.-
16/8/2022 3:46	0.08
16/8/2022 3:47	-.-
16/8/2022 3:48	-.-
16/8/2022 3:47	0.06

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 22:42	0.04
11/8/2022 22:43	-.-
11/8/2022 22:43	-.-
11/8/2022 22:43	0.04
11/8/2022 22:44	-.-
11/8/2022 22:44	-.-
11/8/2022 22:44	0.04
11/8/2022 22:45	-.-
11/8/2022 22:45	-.-
11/8/2022 22:45	0.05
11/8/2022 22:46	-.-
11/8/2022 22:46	-.-
11/8/2022 22:46	0.05
11/8/2022 22:47	-.-
11/8/2022 22:47	-.-
11/8/2022 22:47	0.86
11/8/2022 22:48	-.-
11/8/2022 22:48	-.-
11/8/2022 22:48	0.04
11/8/2022 22:49	-.-
11/8/2022 22:49	-.-
11/8/2022 22:49	0.04
11/8/2022 22:50	-.-
11/8/2022 22:50	-.-
11/8/2022 22:50	0.04
11/8/2022 22:51	-.-
11/8/2022 22:51	-.-
11/8/2022 22:51	0.04
11/8/2022 22:52	-.-
11/8/2022 22:52	-.-
11/8/2022 22:52	0.05
11/8/2022 22:53	-.-
11/8/2022 22:53	-.-
11/8/2022 22:53	0.04
11/8/2022 22:54	-.-
11/8/2022 22:54	-.-
11/8/2022 22:54	0.05
11/8/2022 22:55	-.-
11/8/2022 22:55	-.-
11/8/2022 22:55	0.04
11/8/2022 22:56	-.-
11/8/2022 22:56	-.-
11/8/2022 22:56	0.05

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 1:37	0.05
13/8/2022 1:38	-.-
13/8/2022 1:39	-.-
13/8/2022 1:38	0.05
13/8/2022 1:39	-.-
13/8/2022 1:40	-.-
13/8/2022 1:39	0.05
13/8/2022 1:40	-.-
13/8/2022 1:41	-.-
13/8/2022 1:40	0.22
13/8/2022 1:41	-.-
13/8/2022 1:42	-.-
13/8/2022 1:41	0.07
13/8/2022 1:42	-.-
13/8/2022 1:43	-.-
13/8/2022 1:42	0.04
13/8/2022 1:43	-.-
13/8/2022 1:44	-.-
13/8/2022 1:43	0.05
13/8/2022 1:44	-.-
13/8/2022 1:45	-.-
13/8/2022 1:44	0.05
13/8/2022 1:45	-.-
13/8/2022 1:46	-.-
13/8/2022 1:45	0.06
13/8/2022 1:46	-.-
13/8/2022 1:47	-.-
13/8/2022 1:46	0.05
13/8/2022 1:47	-.-
13/8/2022 1:48	-.-
13/8/2022 1:47	0.04
13/8/2022 1:48	-.-
13/8/2022 1:49	-.-
13/8/2022 1:48	0.05
13/8/2022 1:49	-.-
13/8/2022 1:50	-.-
13/8/2022 1:49	0.05
13/8/2022 1:50	-.-
13/8/2022 1:51	-.-
13/8/2022 1:50	0.04
13/8/2022 1:51	-.-
13/8/2022 1:52	-.-
13/8/2022 1:51	0.04

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 2:34	0.04
9/8/2022 2:35	-.-
9/8/2022 2:36	-.-
9/8/2022 2:35	0.04
9/8/2022 2:36	-.-
9/8/2022 2:37	-.-
9/8/2022 2:36	0.05
9/8/2022 2:37	-.-
9/8/2022 2:38	-.-
9/8/2022 2:37	0.04
9/8/2022 2:38	-.-
9/8/2022 2:39	-.-
9/8/2022 2:38	0.04
9/8/2022 2:39	-.-
9/8/2022 2:40	-.-
9/8/2022 2:39	0.04
9/8/2022 2:40	-.-
9/8/2022 2:41	-.-
9/8/2022 2:40	0.04
9/8/2022 2:41	-.-
9/8/2022 2:42	-.-
9/8/2022 2:41	0.04
9/8/2022 2:42	-.-
9/8/2022 2:43	-.-
9/8/2022 2:42	0.04
9/8/2022 2:43	-.-
9/8/2022 2:44	-.-
9/8/2022 2:43	0.05
9/8/2022 2:44	-.-
9/8/2022 2:45	-.-
9/8/2022 2:44	0.07
9/8/2022 2:45	-.-
9/8/2022 2:46	-.-
9/8/2022 2:45	0.04
9/8/2022 2:46	-.-
9/8/2022 2:47	-.-
9/8/2022 2:46	0.04
9/8/2022 2:47	-.-
9/8/2022 2:48	-.-
9/8/2022 2:47	0.04
9/8/2022 2:48	-.-
9/8/2022 2:49	-.-
9/8/2022 2:48	0.04

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
16/8/2022 3:48	-.-
16/8/2022 3:49	-.-
16/8/2022 3:48	0.04
16/8/2022 3:49	-.-
16/8/2022 3:50	-.-
16/8/2022 3:49	0.09
16/8/2022 3:50	-.-
16/8/2022 3:51	-.-
16/8/2022 3:50	0.04
16/8/2022 3:51	-.-
16/8/2022 3:52	-.-
16/8/2022 3:51	0.04
16/8/2022 3:52	-.-
16/8/2022 3:53	-.-
16/8/2022 3:52	0.05
16/8/2022 3:53	-.-
16/8/2022 3:54	-.-
16/8/2022 3:53	0.04
16/8/2022 3:54	-.-
16/8/2022 3:55	-.-
16/8/2022 3:54	0.04
16/8/2022 3:55	-.-
16/8/2022 3:56	-.-
16/8/2022 3:55	0.09
16/8/2022 3:56	-.-
16/8/2022 3:57	-.-
16/8/2022 3:56	0.07
16/8/2022 3:57	-.-
16/8/2022 3:58	-.-
16/8/2022 3:57	0.06
16/8/2022 3:58	-.-
16/8/2022 3:59	-.-
16/8/2022 3:58	0.06
16/8/2022 3:59	-.-
16/8/2022 4:00	-.-
16/8/2022 3:59	0.05
16/8/2022 4:00	-.-
16/8/2022 4:01	-.-
16/8/2022 4:00	0.05
16/8/2022 4:01	-.-
16/8/2022 4:02	-.-
16/8/2022 4:01	0.06
16/8/2022 4:02	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 22:57	-.-
11/8/2022 22:57	-.-
11/8/2022 22:57	0.04
11/8/2022 22:58	-.-
11/8/2022 22:58	-.-
11/8/2022 22:58	0.05
11/8/2022 22:59	-.-
11/8/2022 22:59	-.-
11/8/2022 22:59	0.04
11/8/2022 23:00	-.-
11/8/2022 23:00	-.-
11/8/2022 23:00	0.04
11/8/2022 23:01	-.-
11/8/2022 23:01	-.-
11/8/2022 23:01	0.04
11/8/2022 23:02	-.-
11/8/2022 23:02	-.-
11/8/2022 23:02	0.06
11/8/2022 23:03	-.-
11/8/2022 23:03	-.-
11/8/2022 23:03	0.05
11/8/2022 23:04	-.-
11/8/2022 23:04	-.-
11/8/2022 23:04	0.04
11/8/2022 23:05	-.-
11/8/2022 23:05	-.-
11/8/2022 23:05	0.05
11/8/2022 23:06	-.-
11/8/2022 23:06	-.-
11/8/2022 23:06	0.04
11/8/2022 23:07	-.-
11/8/2022 23:07	-.-
11/8/2022 23:07	0.04
11/8/2022 23:08	-.-
11/8/2022 23:08	-.-
11/8/2022 23:08	0.05
11/8/2022 23:09	-.-
11/8/2022 23:09	-.-
11/8/2022 23:09	0.05
11/8/2022 23:10	-.-
11/8/2022 23:10	-.-
11/8/2022 23:10	0.04
11/8/2022 23:11	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 1:52	-.-
13/8/2022 1:53	-.-
13/8/2022 1:52	0.05
13/8/2022 1:53	-.-
13/8/2022 1:54	-.-
13/8/2022 1:53	0.14
13/8/2022 1:54	-.-
13/8/2022 1:55	-.-
13/8/2022 1:54	0.05
13/8/2022 1:55	-.-
13/8/2022 1:56	-.-
13/8/2022 1:55	0.05
13/8/2022 1:56	-.-
13/8/2022 1:57	-.-
13/8/2022 1:56	0.04
13/8/2022 1:57	-.-
13/8/2022 1:58	-.-
13/8/2022 1:57	0.07
13/8/2022 1:58	-.-
13/8/2022 1:59	-.-
13/8/2022 1:58	0.05
13/8/2022 1:59	-.-
13/8/2022 2:00	-.-
13/8/2022 1:59	0.05
13/8/2022 2:00	-.-
13/8/2022 2:01	-.-
13/8/2022 2:00	0.05
13/8/2022 2:01	-.-
13/8/2022 2:02	-.-
13/8/2022 2:01	0.24
13/8/2022 2:02	-.-
13/8/2022 2:03	-.-
13/8/2022 2:02	0.04
13/8/2022 2:03	-.-
13/8/2022 2:04	-.-
13/8/2022 2:03	0.07
13/8/2022 2:04	-.-
13/8/2022 2:05	-.-
13/8/2022 2:04	0.11
13/8/2022 2:05	-.-
13/8/2022 2:06	-.-
13/8/2022 2:05	0.04
13/8/2022 2:06	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 2:49	-.-
9/8/2022 2:50	-.-
9/8/2022 2:49	0.04
9/8/2022 2:50	-.-
9/8/2022 2:51	-.-
9/8/2022 2:50	0.04
9/8/2022 2:51	-.-
9/8/2022 2:52	-.-
9/8/2022 2:51	0.04
9/8/2022 2:52	-.-
9/8/2022 2:53	-.-
9/8/2022 2:52	0.04
9/8/2022 2:53	-.-
9/8/2022 2:54	-.-
9/8/2022 2:53	0.05
9/8/2022 2:54	-.-
9/8/2022 2:55	-.-
9/8/2022 2:54	0.04
9/8/2022 2:55	-.-
9/8/2022 2:56	-.-
9/8/2022 2:55	0.04
9/8/2022 2:56	-.-
9/8/2022 2:57	-.-
9/8/2022 2:56	0.04
9/8/2022 2:57	-.-
9/8/2022 2:58	-.-
9/8/2022 2:57	0.05
9/8/2022 2:58	-.-
9/8/2022 2:59	-.-
9/8/2022 2:58	0.04
9/8/2022 2:59	-.-
9/8/2022 3:00	-.-
9/8/2022 2:59	0.04
9/8/2022 3:00	-.-
9/8/2022 3:01	-.-
9/8/2022 3:00	0.05
9/8/2022 3:01	-.-
9/8/2022 3:02	-.-
9/8/2022 3:01	0.04
9/8/2022 3:02	-.-
9/8/2022 3:03	-.-
9/8/2022 3:02	0.04
9/8/2022 3:03	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
16/8/2022 4:03	-.-
16/8/2022 4:02	0.04
16/8/2022 4:03	-.-
16/8/2022 4:04	-.-
16/8/2022 4:03	0.05
16/8/2022 4:04	-.-
16/8/2022 4:05	-.-
16/8/2022 4:04	0.05
16/8/2022 4:05	-.-
16/8/2022 4:06	-.-
16/8/2022 4:05	0.05
16/8/2022 4:06	-.-
16/8/2022 4:07	-.-
16/8/2022 4:06	0.05
16/8/2022 4:07	-.-
16/8/2022 4:08	-.-
16/8/2022 4:07	0.05
16/8/2022 4:08	-.-
16/8/2022 4:09	-.-
16/8/2022 4:08	0.04
16/8/2022 4:09	-.-
16/8/2022 4:10	-.-
16/8/2022 4:09	0.04
16/8/2022 4:10	-.-
16/8/2022 4:11	-.-
16/8/2022 4:10	0.05
16/8/2022 4:11	-.-
16/8/2022 4:12	-.-
16/8/2022 4:11	0.05
16/8/2022 4:12	-.-
16/8/2022 4:13	-.-
16/8/2022 4:12	0.06
16/8/2022 4:13	-.-
16/8/2022 4:14	-.-
16/8/2022 4:13	0.04
16/8/2022 4:14	-.-
16/8/2022 4:15	-.-
16/8/2022 4:14	0.05
16/8/2022 4:15	-.-
16/8/2022 4:16	-.-
16/8/2022 4:15	0.04
16/8/2022 4:16	-.-
16/8/2022 4:17	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 23:11	-.-
11/8/2022 23:11	0.04
11/8/2022 23:12	-.-
11/8/2022 23:12	-.-
11/8/2022 23:12	0.04
11/8/2022 23:13	-.-
11/8/2022 23:13	-.-
11/8/2022 23:13	0.05
11/8/2022 23:14	-.-
11/8/2022 23:14	-.-
11/8/2022 23:14	0.04
11/8/2022 23:15	-.-
11/8/2022 23:15	-.-
11/8/2022 23:15	0.04
11/8/2022 23:16	-.-
11/8/2022 23:16	-.-
11/8/2022 23:16	0.05
11/8/2022 23:17	-.-
11/8/2022 23:17	-.-
11/8/2022 23:17	0.04
11/8/2022 23:18	-.-
11/8/2022 23:18	-.-
11/8/2022 23:18	0.04
11/8/2022 23:19	-.-
11/8/2022 23:19	-.-
11/8/2022 23:19	0.04
11/8/2022 23:20	-.-
11/8/2022 23:20	-.-
11/8/2022 23:20	0.04
11/8/2022 23:21	-.-
11/8/2022 23:21	-.-
11/8/2022 23:21	0.04
11/8/2022 23:22	-.-
11/8/2022 23:22	-.-
11/8/2022 23:22	0.04
11/8/2022 23:23	-.-
11/8/2022 23:23	-.-
11/8/2022 23:23	0.04
11/8/2022 23:24	-.-
11/8/2022 23:24	-.-
11/8/2022 23:24	0.05
11/8/2022 23:25	-.-
11/8/2022 23:25	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 2:07	-.-
13/8/2022 2:06	0.05
13/8/2022 2:07	-.-
13/8/2022 2:08	-.-
13/8/2022 2:07	0.12
13/8/2022 2:08	-.-
13/8/2022 2:09	-.-
13/8/2022 2:08	0.05
13/8/2022 2:09	-.-
13/8/2022 2:10	-.-
13/8/2022 2:09	0.12
13/8/2022 2:10	-.-
13/8/2022 2:11	-.-
13/8/2022 2:10	0.05
13/8/2022 2:11	-.-
13/8/2022 2:12	-.-
13/8/2022 2:11	0.05
13/8/2022 2:12	-.-
13/8/2022 2:13	-.-
13/8/2022 2:12	0.04
13/8/2022 2:13	-.-
13/8/2022 2:14	-.-
13/8/2022 2:13	0.05
13/8/2022 2:14	-.-
13/8/2022 2:15	-.-
13/8/2022 2:14	0.05
13/8/2022 2:15	-.-
13/8/2022 2:16	-.-
13/8/2022 2:15	0.05
13/8/2022 2:16	-.-
13/8/2022 2:17	-.-
13/8/2022 2:16	0.05
13/8/2022 2:17	-.-
13/8/2022 2:18	-.-
13/8/2022 2:17	0.04
13/8/2022 2:18	-.-
13/8/2022 2:19	-.-
13/8/2022 2:18	0.04
13/8/2022 2:19	-.-
13/8/2022 2:20	-.-
13/8/2022 2:19	0.04
13/8/2022 2:20	-.-
13/8/2022 2:21	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 3:04	-.-
9/8/2022 3:03	0.04
9/8/2022 3:04	-.-
9/8/2022 3:05	-.-
9/8/2022 3:04	0.05
9/8/2022 3:05	-.-
9/8/2022 3:06	-.-
9/8/2022 3:05	0.05
9/8/2022 3:06	-.-
9/8/2022 3:07	-.-
9/8/2022 3:06	0.05
9/8/2022 3:07	-.-
9/8/2022 3:08	-.-
9/8/2022 3:07	0.04
9/8/2022 3:08	-.-
9/8/2022 3:09	-.-
9/8/2022 3:08	0.04
9/8/2022 3:09	-.-
9/8/2022 3:10	-.-
9/8/2022 3:09	0.04
9/8/2022 3:10	-.-
9/8/2022 3:11	-.-
9/8/2022 3:10	0.04
9/8/2022 3:11	-.-
9/8/2022 3:12	-.-
9/8/2022 3:11	0.04
9/8/2022 3:12	-.-
9/8/2022 3:13	-.-
9/8/2022 3:12	0.04
9/8/2022 3:13	-.-
9/8/2022 3:14	-.-
9/8/2022 3:13	0.04
9/8/2022 3:14	-.-
9/8/2022 3:15	-.-
9/8/2022 3:14	0.04
9/8/2022 3:15	-.-
9/8/2022 3:16	-.-
9/8/2022 3:15	0.04
9/8/2022 3:16	-.-
9/8/2022 3:17	-.-
9/8/2022 3:16	0.04
9/8/2022 3:17	-.-
9/8/2022 3:18	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
16/8/2022 4:16	0.04
16/8/2022 4:17	-.-
16/8/2022 4:18	-.-
16/8/2022 4:17	0.07
16/8/2022 4:18	-.-
16/8/2022 4:19	-.-
16/8/2022 4:18	0.05
16/8/2022 4:19	-.-
16/8/2022 4:20	-.-
16/8/2022 4:19	0.04
16/8/2022 4:20	-.-
16/8/2022 4:21	-.-
16/8/2022 4:20	0.04
16/8/2022 4:21	-.-
16/8/2022 4:22	-.-
16/8/2022 4:21	0.04
16/8/2022 4:22	-.-
16/8/2022 4:23	-.-
16/8/2022 4:22	0.06
16/8/2022 4:23	-.-
16/8/2022 4:24	-.-
16/8/2022 4:23	0.06
16/8/2022 4:24	-.-
16/8/2022 4:25	-.-
16/8/2022 4:24	0.04
16/8/2022 4:25	-.-
16/8/2022 4:26	-.-
16/8/2022 4:25	0.05
16/8/2022 4:26	-.-
16/8/2022 4:27	-.-
16/8/2022 4:26	0.05
16/8/2022 4:27	-.-
16/8/2022 4:28	-.-
16/8/2022 4:27	0.06
16/8/2022 4:28	-.-
16/8/2022 4:29	-.-
16/8/2022 4:28	0.07
16/8/2022 4:29	-.-
16/8/2022 4:30	-.-
16/8/2022 4:29	0.04
16/8/2022 4:30	-.-
16/8/2022 4:31	-.-
16/8/2022 4:30	0.04

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 23:25	0.05
11/8/2022 23:26	-.-
11/8/2022 23:26	-.-
11/8/2022 23:26	0.04
11/8/2022 23:27	-.-
11/8/2022 23:27	-.-
11/8/2022 23:27	0.04
11/8/2022 23:28	-.-
11/8/2022 23:28	-.-
11/8/2022 23:28	0.05
11/8/2022 23:29	-.-
11/8/2022 23:29	-.-
11/8/2022 23:29	0.04
11/8/2022 23:30	-.-
11/8/2022 23:30	-.-
11/8/2022 23:30	0.04
11/8/2022 23:31	-.-
11/8/2022 23:31	-.-
11/8/2022 23:31	3.45
11/8/2022 23:32	-.-
11/8/2022 23:32	-.-
11/8/2022 23:32	0.05
11/8/2022 23:33	-.-
11/8/2022 23:33	-.-
11/8/2022 23:33	0.04
11/8/2022 23:34	-.-
11/8/2022 23:34	-.-
11/8/2022 23:34	0.04
11/8/2022 23:35	-.-
11/8/2022 23:35	-.-
11/8/2022 23:35	0.04
11/8/2022 23:36	-.-
11/8/2022 23:36	-.-
11/8/2022 23:36	0.05
11/8/2022 23:37	-.-
11/8/2022 23:37	-.-
11/8/2022 23:37	0.04
11/8/2022 23:38	-.-
11/8/2022 23:38	-.-
11/8/2022 23:38	0.04
11/8/2022 23:39	-.-
11/8/2022 23:39	-.-
11/8/2022 23:39	0.04

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 2:20	0.04
13/8/2022 2:21	-.-
13/8/2022 2:22	-.-
13/8/2022 2:21	0.19
13/8/2022 2:22	-.-
13/8/2022 2:23	-.-
13/8/2022 2:22	0.12
13/8/2022 2:23	-.-
13/8/2022 2:24	-.-
13/8/2022 2:23	0.05
13/8/2022 2:24	-.-
13/8/2022 2:25	-.-
13/8/2022 2:24	0.05
13/8/2022 2:25	-.-
13/8/2022 2:26	-.-
13/8/2022 2:25	0.05
13/8/2022 2:26	-.-
13/8/2022 2:27	-.-
13/8/2022 2:26	0.05
13/8/2022 2:27	-.-
13/8/2022 2:28	-.-
13/8/2022 2:27	0.05
13/8/2022 2:28	-.-
13/8/2022 2:29	-.-
13/8/2022 2:28	0.04
13/8/2022 2:29	-.-
13/8/2022 2:30	-.-
13/8/2022 2:29	0.05
13/8/2022 2:30	-.-
13/8/2022 2:31	-.-
13/8/2022 2:30	0.05
13/8/2022 2:31	-.-
13/8/2022 2:32	-.-
13/8/2022 2:31	0.05
13/8/2022 2:32	-.-
13/8/2022 2:33	-.-
13/8/2022 2:32	0.04
13/8/2022 2:33	-.-
13/8/2022 2:34	-.-
13/8/2022 2:33	0.05
13/8/2022 2:34	-.-
13/8/2022 2:35	-.-
13/8/2022 2:34	0.05

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 3:17	0.05
9/8/2022 3:18	-.-
9/8/2022 3:19	-.-
9/8/2022 3:18	0.04
9/8/2022 3:19	-.-
9/8/2022 3:20	-.-
9/8/2022 3:19	0.04
9/8/2022 3:20	-.-
9/8/2022 3:21	-.-
9/8/2022 3:20	0.04
9/8/2022 3:21	-.-
9/8/2022 3:22	-.-
9/8/2022 3:21	0.04
9/8/2022 3:22	-.-
9/8/2022 3:23	-.-
9/8/2022 3:22	0.05
9/8/2022 3:23	-.-
9/8/2022 3:24	-.-
9/8/2022 3:23	0.04
9/8/2022 3:24	-.-
9/8/2022 3:25	-.-
9/8/2022 3:24	0.04
9/8/2022 3:25	-.-
9/8/2022 3:26	-.-
9/8/2022 3:25	0.04
9/8/2022 3:26	-.-
9/8/2022 3:27	-.-
9/8/2022 3:26	0.05
9/8/2022 3:27	-.-
9/8/2022 3:28	-.-
9/8/2022 3:27	0.05
9/8/2022 3:28	-.-
9/8/2022 3:29	-.-
9/8/2022 3:28	0.04
9/8/2022 3:29	-.-
9/8/2022 3:30	-.-
9/8/2022 3:29	0.05
9/8/2022 3:30	-.-
9/8/2022 3:31	-.-
9/8/2022 3:30	0.04
9/8/2022 3:31	-.-
9/8/2022 3:32	-.-
9/8/2022 3:31	0.04

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
16/8/2022 4:31	-.-
16/8/2022 4:32	-.-
16/8/2022 4:31	0.04
16/8/2022 4:32	-.-
16/8/2022 4:33	-.-
16/8/2022 4:32	0.04
16/8/2022 4:33	-.-
16/8/2022 4:34	-.-
16/8/2022 4:33	0.08
16/8/2022 4:34	-.-
16/8/2022 4:35	-.-
16/8/2022 4:34	0.05
16/8/2022 4:35	-.-
16/8/2022 4:36	-.-
16/8/2022 4:35	0.05
16/8/2022 4:36	-.-
16/8/2022 4:37	-.-
16/8/2022 4:36	0.05
16/8/2022 4:37	-.-
16/8/2022 4:38	-.-
16/8/2022 4:37	0.06
16/8/2022 4:38	-.-
16/8/2022 4:39	-.-
16/8/2022 4:38	0.07
16/8/2022 4:39	-.-
16/8/2022 4:40	-.-
16/8/2022 4:39	0.06
16/8/2022 4:40	-.-
16/8/2022 4:41	-.-
16/8/2022 4:40	0.04
16/8/2022 4:41	-.-
16/8/2022 4:42	-.-
16/8/2022 4:41	0.05
16/8/2022 4:42	-.-
16/8/2022 4:43	-.-
16/8/2022 4:42	0.05
16/8/2022 4:43	-.-
16/8/2022 4:44	-.-
16/8/2022 4:43	0.19
16/8/2022 4:44	-.-
16/8/2022 4:45	-.-
16/8/2022 4:44	0.06
16/8/2022 4:45	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 23:40	-.-
11/8/2022 23:40	-.-
11/8/2022 23:40	0.05
11/8/2022 23:41	-.-
11/8/2022 23:41	-.-
11/8/2022 23:41	0.05
11/8/2022 23:42	-.-
11/8/2022 23:42	-.-
11/8/2022 23:42	0.04
11/8/2022 23:43	-.-
11/8/2022 23:43	-.-
11/8/2022 23:43	0.05
11/8/2022 23:44	-.-
11/8/2022 23:44	-.-
11/8/2022 23:44	0.04
11/8/2022 23:45	-.-
11/8/2022 23:45	-.-
11/8/2022 23:45	0.04
11/8/2022 23:46	-.-
11/8/2022 23:46	-.-
11/8/2022 23:46	0.04
11/8/2022 23:47	-.-
11/8/2022 23:47	-.-
11/8/2022 23:47	0.05
11/8/2022 23:48	-.-
11/8/2022 23:48	-.-
11/8/2022 23:48	0.05
11/8/2022 23:49	-.-
11/8/2022 23:49	-.-
11/8/2022 23:49	0.05
11/8/2022 23:50	-.-
11/8/2022 23:50	-.-
11/8/2022 23:50	0.05
11/8/2022 23:51	-.-
11/8/2022 23:51	-.-
11/8/2022 23:51	0.04
11/8/2022 23:52	-.-
11/8/2022 23:52	-.-
11/8/2022 23:52	0.04
11/8/2022 23:53	-.-
11/8/2022 23:53	-.-
11/8/2022 23:53	0.04
11/8/2022 23:54	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 2:35	-.-
13/8/2022 2:36	-.-
13/8/2022 2:35	0.05
13/8/2022 2:36	-.-
13/8/2022 2:37	-.-
13/8/2022 2:36	0.17
13/8/2022 2:37	-.-
13/8/2022 2:38	-.-
13/8/2022 2:37	0.05
13/8/2022 2:38	-.-
13/8/2022 2:39	-.-
13/8/2022 2:38	0.04
13/8/2022 2:39	-.-
13/8/2022 2:40	-.-
13/8/2022 2:39	0.06
13/8/2022 2:40	-.-
13/8/2022 2:41	-.-
13/8/2022 2:40	0.05
13/8/2022 2:41	-.-
13/8/2022 2:42	-.-
13/8/2022 2:41	0.09
13/8/2022 2:42	-.-
13/8/2022 2:43	-.-
13/8/2022 2:42	0.04
13/8/2022 2:43	-.-
13/8/2022 2:44	-.-
13/8/2022 2:43	0.04
13/8/2022 2:44	-.-
13/8/2022 2:45	-.-
13/8/2022 2:44	0.04
13/8/2022 2:45	-.-
13/8/2022 2:46	-.-
13/8/2022 2:45	0.05
13/8/2022 2:46	-.-
13/8/2022 2:47	-.-
13/8/2022 2:46	0.05
13/8/2022 2:47	-.-
13/8/2022 2:48	-.-
13/8/2022 2:47	0.14
13/8/2022 2:48	-.-
13/8/2022 2:49	-.-
13/8/2022 2:48	0.09
13/8/2022 2:49	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 3:32	-.-
9/8/2022 3:33	-.-
9/8/2022 3:32	0.04
9/8/2022 3:33	-.-
9/8/2022 3:34	-.-
9/8/2022 3:33	0.04
9/8/2022 3:34	-.-
9/8/2022 3:35	-.-
9/8/2022 3:34	0.04
9/8/2022 3:35	-.-
9/8/2022 3:36	-.-
9/8/2022 3:35	0.04
9/8/2022 3:36	-.-
9/8/2022 3:37	-.-
9/8/2022 3:36	0.04
9/8/2022 3:37	-.-
9/8/2022 3:38	-.-
9/8/2022 3:37	0.04
9/8/2022 3:38	-.-
9/8/2022 3:39	-.-
9/8/2022 3:38	0.04
9/8/2022 3:39	-.-
9/8/2022 3:40	-.-
9/8/2022 3:39	0.04
9/8/2022 3:40	-.-
9/8/2022 3:41	-.-
9/8/2022 3:40	0.04
9/8/2022 3:41	-.-
9/8/2022 3:42	-.-
9/8/2022 3:41	0.04
9/8/2022 3:42	-.-
9/8/2022 3:43	-.-
9/8/2022 3:42	0.06
9/8/2022 3:43	-.-
9/8/2022 3:44	-.-
9/8/2022 3:43	0.05
9/8/2022 3:44	-.-
9/8/2022 3:45	-.-
9/8/2022 3:44	0.1
9/8/2022 3:45	-.-
9/8/2022 3:46	-.-
9/8/2022 3:45	0.05
9/8/2022 3:46	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
16/8/2022 4:46	-.-
16/8/2022 4:45	0.05
16/8/2022 4:46	-.-
16/8/2022 4:47	-.-
16/8/2022 4:46	0.04
16/8/2022 4:47	-.-
16/8/2022 4:48	-.-
16/8/2022 4:47	0.06
16/8/2022 4:48	-.-
16/8/2022 4:49	-.-
16/8/2022 4:48	0.09
16/8/2022 4:49	-.-
16/8/2022 4:50	-.-
16/8/2022 4:49	0.04
16/8/2022 4:50	-.-
16/8/2022 4:51	-.-
16/8/2022 4:50	0.06
16/8/2022 4:51	-.-
16/8/2022 4:52	-.-
16/8/2022 4:51	0.05
16/8/2022 4:52	-.-
16/8/2022 4:53	-.-
16/8/2022 4:52	0.05
16/8/2022 4:53	-.-
16/8/2022 4:54	-.-
16/8/2022 4:53	0.04
16/8/2022 4:54	-.-
16/8/2022 4:55	-.-
16/8/2022 4:54	0.05
16/8/2022 4:55	-.-
16/8/2022 4:56	-.-
16/8/2022 4:55	0.07
16/8/2022 4:56	-.-
16/8/2022 4:57	-.-
16/8/2022 4:56	0.05
16/8/2022 4:57	-.-
16/8/2022 4:58	-.-
16/8/2022 4:57	0.05
16/8/2022 4:58	-.-
16/8/2022 4:59	-.-
16/8/2022 4:58	0.06
16/8/2022 4:59	-.-
16/8/2022 5:00	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
11/8/2022 23:54	-.-
11/8/2022 23:54	0.04
11/8/2022 23:55	-.-
11/8/2022 23:55	-.-
11/8/2022 23:55	0.05
11/8/2022 23:56	-.-
11/8/2022 23:56	-.-
11/8/2022 23:56	0.05
11/8/2022 23:57	-.-
11/8/2022 23:57	-.-
11/8/2022 23:57	0.05
11/8/2022 23:58	-.-
11/8/2022 23:58	-.-
11/8/2022 23:58	0.04
11/8/2022 23:59	-.-
11/8/2022 23:59	-.-
11/8/2022 23:59	0.04
12/8/2022 0:00	-.-
12/8/2022 0:00	-.-
12/8/2022 0:00	0.05
12/8/2022 0:01	-.-
12/8/2022 0:01	-.-
12/8/2022 0:01	0.04
12/8/2022 0:02	-.-
12/8/2022 0:02	-.-
12/8/2022 0:02	0.09
12/8/2022 0:03	-.-
12/8/2022 0:03	-.-
12/8/2022 0:03	0.06
12/8/2022 0:04	-.-
12/8/2022 0:04	-.-
12/8/2022 0:04	0.15
12/8/2022 0:05	-.-
12/8/2022 0:05	-.-
12/8/2022 0:05	0.04
12/8/2022 0:06	-.-
12/8/2022 0:06	-.-
12/8/2022 0:06	0.22
12/8/2022 0:07	-.-
12/8/2022 0:07	-.-
12/8/2022 0:07	0.05
12/8/2022 0:08	-.-
12/8/2022 0:08	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 2:50	-.-
13/8/2022 2:49	0.15
13/8/2022 2:50	-.-
13/8/2022 2:51	-.-
13/8/2022 2:50	0.04
13/8/2022 2:51	-.-
13/8/2022 2:52	-.-
13/8/2022 2:51	0.05
13/8/2022 2:52	-.-
13/8/2022 2:53	-.-
13/8/2022 2:52	0.04
13/8/2022 2:53	-.-
13/8/2022 2:54	-.-
13/8/2022 2:53	0.06
13/8/2022 2:54	-.-
13/8/2022 2:55	-.-
13/8/2022 2:54	0.12
13/8/2022 2:55	-.-
13/8/2022 2:56	-.-
13/8/2022 2:55	0.05
13/8/2022 2:56	-.-
13/8/2022 2:57	-.-
13/8/2022 2:56	0.05
13/8/2022 2:57	-.-
13/8/2022 2:58	-.-
13/8/2022 2:57	0.05
13/8/2022 2:58	-.-
13/8/2022 2:59	-.-
13/8/2022 2:58	0.12
13/8/2022 2:59	-.-
13/8/2022 3:00	-.-
13/8/2022 2:59	0.04
13/8/2022 3:00	-.-
13/8/2022 3:01	-.-
13/8/2022 3:00	0.05
13/8/2022 3:01	-.-
13/8/2022 3:02	-.-
13/8/2022 3:01	0.05
13/8/2022 3:02	-.-
13/8/2022 3:03	-.-
13/8/2022 3:02	0.05
13/8/2022 3:03	-.-
13/8/2022 3:04	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 3:47	-.-
9/8/2022 3:46	0.05
9/8/2022 3:47	-.-
9/8/2022 3:48	-.-
9/8/2022 3:47	0.04
9/8/2022 3:48	-.-
9/8/2022 3:49	-.-
9/8/2022 3:48	0.04
9/8/2022 3:49	-.-
9/8/2022 3:50	-.-
9/8/2022 3:49	0.04
9/8/2022 3:50	-.-
9/8/2022 3:51	-.-
9/8/2022 3:50	0.04
9/8/2022 3:51	-.-
9/8/2022 3:52	-.-
9/8/2022 3:51	0.05
9/8/2022 3:52	-.-
9/8/2022 3:53	-.-
9/8/2022 3:52	0.04
9/8/2022 3:53	-.-
9/8/2022 3:54	-.-
9/8/2022 3:53	0.04
9/8/2022 3:54	-.-
9/8/2022 3:55	-.-
9/8/2022 3:54	0.04
9/8/2022 3:55	-.-
9/8/2022 3:56	-.-
9/8/2022 3:55	0.05
9/8/2022 3:56	-.-
9/8/2022 3:57	-.-
9/8/2022 3:56	0.04
9/8/2022 3:57	-.-
9/8/2022 3:58	-.-
9/8/2022 3:57	0.04
9/8/2022 3:58	-.-
9/8/2022 3:59	-.-
9/8/2022 3:58	0.04
9/8/2022 3:59	-.-
9/8/2022 4:00	-.-
9/8/2022 3:59	0.04
9/8/2022 4:00	-.-
9/8/2022 4:01	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
16/8/2022 4:59	0.07
16/8/2022 5:00	-.-
16/8/2022 5:01	-.-
16/8/2022 5:00	0.07
16/8/2022 5:01	-.-
16/8/2022 5:02	-.-
16/8/2022 5:01	0.08
16/8/2022 5:02	-.-
16/8/2022 5:03	-.-
16/8/2022 5:02	0.05
16/8/2022 5:03	-.-
16/8/2022 5:04	-.-
16/8/2022 5:03	0.05
16/8/2022 5:04	-.-
16/8/2022 5:05	-.-
16/8/2022 5:04	0.05
16/8/2022 5:05	-.-
16/8/2022 5:06	-.-
16/8/2022 5:05	0.05
16/8/2022 5:06	-.-
16/8/2022 5:07	-.-
16/8/2022 5:06	0.1
16/8/2022 5:07	-.-
16/8/2022 5:08	-.-
16/8/2022 5:07	0.05
16/8/2022 5:08	-.-
16/8/2022 5:09	-.-
16/8/2022 5:08	0.05
16/8/2022 5:09	-.-
16/8/2022 5:10	-.-
16/8/2022 5:09	0.05
16/8/2022 5:10	-.-
16/8/2022 5:11	-.-
16/8/2022 5:10	0.04
16/8/2022 5:11	-.-
16/8/2022 5:12	-.-
16/8/2022 5:11	0.07
16/8/2022 5:12	-.-
16/8/2022 5:13	-.-
16/8/2022 5:12	0.04
16/8/2022 5:13	-.-
16/8/2022 5:14	-.-
16/8/2022 5:13	0.09

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 0:08	0.11
12/8/2022 0:09	-.-
12/8/2022 0:09	-.-
12/8/2022 0:09	0.14
12/8/2022 0:10	-.-
12/8/2022 0:10	-.-
12/8/2022 0:10	0.04
12/8/2022 0:11	-.-
12/8/2022 0:11	-.-
12/8/2022 0:11	0.09
12/8/2022 0:12	-.-
12/8/2022 0:12	-.-
12/8/2022 0:12	0.04
12/8/2022 0:13	-.-
12/8/2022 0:13	-.-
12/8/2022 0:13	0.04
12/8/2022 0:14	-.-
12/8/2022 0:14	-.-
12/8/2022 0:14	0.04
12/8/2022 0:15	-.-
12/8/2022 0:15	-.-
12/8/2022 0:15	0.04
12/8/2022 0:16	-.-
12/8/2022 0:16	-.-
12/8/2022 0:16	0.04
12/8/2022 0:17	-.-
12/8/2022 0:17	-.-
12/8/2022 0:17	0.04
12/8/2022 0:18	-.-
12/8/2022 0:18	-.-
12/8/2022 0:18	0.04
12/8/2022 0:19	-.-
12/8/2022 0:19	-.-
12/8/2022 0:19	0.04
12/8/2022 0:20	-.-
12/8/2022 0:20	-.-
12/8/2022 0:20	0.05
12/8/2022 0:21	-.-
12/8/2022 0:21	-.-
12/8/2022 0:21	0.05
12/8/2022 0:22	-.-
12/8/2022 0:22	-.-
12/8/2022 0:22	0.04

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 3:03	0.05
13/8/2022 3:04	-.-
13/8/2022 3:05	-.-
13/8/2022 3:04	0.05
13/8/2022 3:05	-.-
13/8/2022 3:06	-.-
13/8/2022 3:05	0.07
13/8/2022 3:06	-.-
13/8/2022 3:07	-.-
13/8/2022 3:06	0.1
13/8/2022 3:07	-.-
13/8/2022 3:08	-.-
13/8/2022 3:07	0.04
13/8/2022 3:08	-.-
13/8/2022 3:09	-.-
13/8/2022 3:08	0.05
13/8/2022 3:09	-.-
13/8/2022 3:10	-.-
13/8/2022 3:09	0.04
13/8/2022 3:10	-.-
13/8/2022 3:11	-.-
13/8/2022 3:10	0.05
13/8/2022 3:11	-.-
13/8/2022 3:12	-.-
13/8/2022 3:11	0.04
13/8/2022 3:12	-.-
13/8/2022 3:13	-.-
13/8/2022 3:12	0.04
13/8/2022 3:13	-.-
13/8/2022 3:14	-.-
13/8/2022 3:13	0.05
13/8/2022 3:14	-.-
13/8/2022 3:15	-.-
13/8/2022 3:14	0.04
13/8/2022 3:15	-.-
13/8/2022 3:16	-.-
13/8/2022 3:15	0.04
13/8/2022 3:16	-.-
13/8/2022 3:17	-.-
13/8/2022 3:16	0.04
13/8/2022 3:17	-.-
13/8/2022 3:18	-.-
13/8/2022 3:17	0.05

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 4:00	0.04
9/8/2022 4:01	-.-
9/8/2022 4:02	-.-
9/8/2022 4:01	0.04
9/8/2022 4:02	-.-
9/8/2022 4:03	-.-
9/8/2022 4:02	0.05
9/8/2022 4:03	-.-
9/8/2022 4:04	-.-
9/8/2022 4:03	0.04
9/8/2022 4:04	-.-
9/8/2022 4:05	-.-
9/8/2022 4:04	0.04
9/8/2022 4:05	-.-
9/8/2022 4:06	-.-
9/8/2022 4:05	0.04
9/8/2022 4:06	-.-
9/8/2022 4:07	-.-
9/8/2022 4:06	0.04
9/8/2022 4:07	-.-
9/8/2022 4:08	-.-
9/8/2022 4:07	0.04
9/8/2022 4:08	-.-
9/8/2022 4:09	-.-
9/8/2022 4:08	0.05
9/8/2022 4:09	-.-
9/8/2022 4:10	-.-
9/8/2022 4:09	0.05
9/8/2022 4:10	-.-
9/8/2022 4:11	-.-
9/8/2022 4:10	0.04
9/8/2022 4:11	-.-
9/8/2022 4:12	-.-
9/8/2022 4:11	0.04
9/8/2022 4:12	-.-
9/8/2022 4:13	-.-
9/8/2022 4:12	0.04
9/8/2022 4:13	-.-
9/8/2022 4:14	-.-
9/8/2022 4:13	0.05
9/8/2022 4:14	-.-
9/8/2022 4:15	-.-
9/8/2022 4:14	0.04

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)
16/8/2022 5:14	-.-
16/8/2022 5:15	-.-
16/8/2022 5:14	0.05
16/8/2022 5:15	-.-
16/8/2022 5:16	-.-
16/8/2022 5:15	0.04
16/8/2022 5:16	-.-
16/8/2022 5:17	-.-
16/8/2022 5:16	0.05
16/8/2022 5:17	-.-
16/8/2022 5:18	-.-
16/8/2022 5:17	0.06
16/8/2022 5:18	-.-
16/8/2022 5:19	-.-
16/8/2022 5:18	0.05
16/8/2022 5:19	-.-
16/8/2022 5:20	-.-
16/8/2022 5:19	0.07
16/8/2022 5:20	-.-
16/8/2022 5:21	-.-
16/8/2022 5:20	0.04
16/8/2022 5:21	-.-
16/8/2022 5:22	-.-
16/8/2022 5:21	0.14
16/8/2022 5:22	-.-
16/8/2022 5:23	-.-
16/8/2022 5:22	0.06
16/8/2022 5:23	-.-
16/8/2022 5:24	-.-
16/8/2022 5:23	0.04
16/8/2022 5:24	-.-
16/8/2022 5:25	-.-
16/8/2022 5:24	0.04
16/8/2022 5:25	-.-
16/8/2022 5:26	-.-
16/8/2022 5:25	0.05
16/8/2022 5:26	-.-
16/8/2022 5:27	-.-
16/8/2022 5:26	0.05
16/8/2022 5:27	-.-
16/8/2022 5:28	-.-
16/8/2022 5:27	0.05
16/8/2022 5:28	-.-

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 0:23	-.-
12/8/2022 0:23	-.-
12/8/2022 0:23	0.05
12/8/2022 0:24	-.-
12/8/2022 0:24	-.-
12/8/2022 0:24	0.05
12/8/2022 0:25	-.-
12/8/2022 0:25	-.-
12/8/2022 0:25	0.04
12/8/2022 0:26	-.-
12/8/2022 0:26	-.-
12/8/2022 0:26	0.04
12/8/2022 0:27	-.-
12/8/2022 0:27	-.-
12/8/2022 0:27	0.04
12/8/2022 0:28	-.-
12/8/2022 0:28	-.-
12/8/2022 0:28	0.05
12/8/2022 0:29	-.-
12/8/2022 0:29	-.-
12/8/2022 0:29	0.05
12/8/2022 0:30	-.-
12/8/2022 0:30	-.-
12/8/2022 0:30	0.05
12/8/2022 0:31	-.-
12/8/2022 0:31	-.-
12/8/2022 0:31	0.05
12/8/2022 0:32	-.-
12/8/2022 0:32	-.-
12/8/2022 0:32	0.06
12/8/2022 0:33	-.-
12/8/2022 0:33	-.-
12/8/2022 0:33	0.04
12/8/2022 0:34	-.-
12/8/2022 0:34	-.-
12/8/2022 0:34	0.04
12/8/2022 0:35	-.-
12/8/2022 0:35	-.-
12/8/2022 0:35	0.04
12/8/2022 0:36	-.-
12/8/2022 0:36	-.-
12/8/2022 0:36	0.05
12/8/2022 0:37	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 3:18	-.-
13/8/2022 3:19	-.-
13/8/2022 3:18	0.1
13/8/2022 3:19	-.-
13/8/2022 3:20	-.-
13/8/2022 3:19	0.13
13/8/2022 3:20	-.-
13/8/2022 3:21	-.-
13/8/2022 3:20	0.04
13/8/2022 3:21	-.-
13/8/2022 3:22	-.-
13/8/2022 3:21	0.06
13/8/2022 3:22	-.-
13/8/2022 3:23	-.-
13/8/2022 3:22	0.05
13/8/2022 3:23	-.-
13/8/2022 3:24	-.-
13/8/2022 3:23	0.05
13/8/2022 3:24	-.-
13/8/2022 3:25	-.-
13/8/2022 3:24	0.05
13/8/2022 3:25	-.-
13/8/2022 3:26	-.-
13/8/2022 3:25	0.05
13/8/2022 3:26	-.-
13/8/2022 3:27	-.-
13/8/2022 3:26	0.05
13/8/2022 3:27	-.-
13/8/2022 3:28	-.-
13/8/2022 3:27	0.04
13/8/2022 3:28	-.-
13/8/2022 3:29	-.-
13/8/2022 3:28	0.05
13/8/2022 3:29	-.-
13/8/2022 3:30	-.-
13/8/2022 3:29	0.04
13/8/2022 3:30	-.-
13/8/2022 3:31	-.-
13/8/2022 3:30	0.04
13/8/2022 3:31	-.-
13/8/2022 3:32	-.-
13/8/2022 3:31	0.04
13/8/2022 3:32	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 4:15	-.-
9/8/2022 4:16	-.-
9/8/2022 4:15	0.04
9/8/2022 4:16	-.-
9/8/2022 4:17	-.-
9/8/2022 4:16	0.05
9/8/2022 4:17	-.-
9/8/2022 4:18	-.-
9/8/2022 4:17	0.04
9/8/2022 4:18	-.-
9/8/2022 4:19	-.-
9/8/2022 4:18	0.04
9/8/2022 4:19	-.-
9/8/2022 4:20	-.-
9/8/2022 4:19	0.04
9/8/2022 4:20	-.-
9/8/2022 4:21	-.-
9/8/2022 4:20	0.04
9/8/2022 4:21	-.-
9/8/2022 4:22	-.-
9/8/2022 4:21	0.04
9/8/2022 4:22	-.-
9/8/2022 4:23	-.-
9/8/2022 4:22	0.04
9/8/2022 4:23	-.-
9/8/2022 4:24	-.-
9/8/2022 4:23	0.04
9/8/2022 4:24	-.-
9/8/2022 4:25	-.-
9/8/2022 4:24	0.04
9/8/2022 4:25	-.-
9/8/2022 4:26	-.-
9/8/2022 4:25	0.04
9/8/2022 4:26	-.-
9/8/2022 4:27	-.-
9/8/2022 4:26	0.04
9/8/2022 4:27	-.-
9/8/2022 4:28	-.-
9/8/2022 4:27	0.04
9/8/2022 4:28	-.-
9/8/2022 4:29	-.-
9/8/2022 4:28	0.04
9/8/2022 4:29	-.-

Vibration data Station V1
15-16 Aug 2022

Date & Time	P.V.S (mm/s)
16/8/2022 5:29	-.-
16/8/2022 5:28	0.04
16/8/2022 5:29	-.-
16/8/2022 5:30	-.-
16/8/2022 5:29	0.07
16/8/2022 5:30	-.-
16/8/2022 5:31	-.-
16/8/2022 5:30	0.07
16/8/2022 5:31	-.-
16/8/2022 5:32	-.-
16/8/2022 5:31	0.08
16/8/2022 5:32	-.-
16/8/2022 5:33	-.-
16/8/2022 5:32	0.06
16/8/2022 5:33	-.-
16/8/2022 5:34	-.-
16/8/2022 5:33	0.04
16/8/2022 5:34	-.-
16/8/2022 5:35	-.-
16/8/2022 5:34	0.04
16/8/2022 5:35	-.-
16/8/2022 5:36	-.-
16/8/2022 5:35	0.04
16/8/2022 5:36	-.-
16/8/2022 5:37	-.-
16/8/2022 5:36	0.05
16/8/2022 5:37	0.04

Vibration data Station V2
11-12 Aug 2022

Date & Time	P.V.S (mm/s)
12/8/2022 0:37	-.-
12/8/2022 0:37	0.04
12/8/2022 0:38	-.-
12/8/2022 0:38	-.-
12/8/2022 0:38	0.04
12/8/2022 0:39	-.-
12/8/2022 0:39	-.-
12/8/2022 0:39	0.04
12/8/2022 0:40	-.-
12/8/2022 0:40	-.-
12/8/2022 0:40	0.05
12/8/2022 0:41	-.-
12/8/2022 0:41	-.-
12/8/2022 0:41	0.04
12/8/2022 0:42	-.-
12/8/2022 0:42	-.-
12/8/2022 0:42	0.04
12/8/2022 0:43	-.-
12/8/2022 0:43	-.-
12/8/2022 0:43	0.04
12/8/2022 0:44	-.-
12/8/2022 0:44	-.-
12/8/2022 0:44	0.04
12/8/2022 0:45	-.-
12/8/2022 0:45	-.-
12/8/2022 0:45	0.05
12/8/2022 0:46	-.-
12/8/2022 0:46	-.-
12/8/2022 0:46	0.04
12/8/2022 0:47	-.-
12/8/2022 0:47	-.-
12/8/2022 0:47	0.04
12/8/2022 0:48	-.-
12/8/2022 0:48	-.-
12/8/2022 0:48	0.04
12/8/2022 0:49	-.-
12/8/2022 0:49	-.-
12/8/2022 0:49	0.04
12/8/2022 0:50	-.-
12/8/2022 0:50	-.-
12/8/2022 0:50	0.05
12/8/2022 0:51	-.-
12/8/2022 0:51	-.-

Vibration data Station V3
12-13 Aug 2022

Date & Time	P.V.S (mm/s)
13/8/2022 3:33	-.-
13/8/2022 3:32	0.05
13/8/2022 3:33	-.-
13/8/2022 3:34	-.-
13/8/2022 3:33	0.06
13/8/2022 3:34	-.-
13/8/2022 3:35	-.-
13/8/2022 3:34	0.04
13/8/2022 3:35	-.-
13/8/2022 3:36	-.-
13/8/2022 3:35	0.05
13/8/2022 3:36	-.-
13/8/2022 3:37	-.-
13/8/2022 3:36	0.04
13/8/2022 3:37	-.-
13/8/2022 3:38	-.-
13/8/2022 3:37	0.04
13/8/2022 3:38	-.-
13/8/2022 3:39	-.-
13/8/2022 3:38	0.04
13/8/2022 3:39	-.-
13/8/2022 3:40	-.-
13/8/2022 3:39	0.18
13/8/2022 3:40	-.-
13/8/2022 3:41	-.-
13/8/2022 3:40	0.05
13/8/2022 3:41	-.-
13/8/2022 3:42	-.-
13/8/2022 3:41	0.05
13/8/2022 3:42	-.-
13/8/2022 3:43	-.-
13/8/2022 3:42	0.04
13/8/2022 3:43	-.-
13/8/2022 3:44	-.-
13/8/2022 3:43	0.04
13/8/2022 3:44	-.-
13/8/2022 3:45	-.-
13/8/2022 3:44	0.05
13/8/2022 3:45	-.-
13/8/2022 3:46	-.-
13/8/2022 3:45	0.04
13/8/2022 3:46	-.-
13/8/2022 3:47	-.-

Vibration data Station V4
8-9 Aug 2022

Date & Time	P.V.S (mm/s)
9/8/2022 4:30	-.-
9/8/2022 4:29	0.04
9/8/2022 4:30	-.-
9/8/2022 4:31	-.-
9/8/2022 4:30	0.04
9/8/2022 4:31	-.-
9/8/2022 4:32	-.-
9/8/2022 4:31	0.04
9/8/2022 4:32	-.-
9/8/2022 4:33	-.-
9/8/2022 4:32	0.04
9/8/2022 4:33	-.-
9/8/2022 4:34	-.-
9/8/2022 4:33	0.04
9/8/2022 4:34	-.-
9/8/2022 4:35	-.-
9/8/2022 4:34	0.05
9/8/2022 4:35	-.-
9/8/2022 4:36	-.-
9/8/2022 4:35	0.04
9/8/2022 4:36	-.-
9/8/2022 4:37	-.-
9/8/2022 4:36	0.04
9/8/2022 4:37	-.-
9/8/2022 4:38	-.-
9/8/2022 4:37	0.04
9/8/2022 4:38	-.-
9/8/2022 4:39	-.-
9/8/2022 4:38	0.04
9/8/2022 4:39	-.-
9/8/2022 4:40	-.-
9/8/2022 4:39	0.04
9/8/2022 4:40	-.-
9/8/2022 4:41	-.-
9/8/2022 4:40	0.04
9/8/2022 4:41	-.-
9/8/2022 4:42	-.-
9/8/2022 4:41	0.04
9/8/2022 4:42	-.-
9/8/2022 4:43	-.-
9/8/2022 4:42	0.04
9/8/2022 4:43	-.-
9/8/2022 4:44	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 0:51	0.04
12/8/2022 0:52	-.-
12/8/2022 0:52	-.-
12/8/2022 0:52	0.04
12/8/2022 0:53	-.-
12/8/2022 0:53	-.-
12/8/2022 0:53	0.04
12/8/2022 0:54	-.-
12/8/2022 0:54	-.-
12/8/2022 0:54	0.05
12/8/2022 0:55	-.-
12/8/2022 0:55	-.-
12/8/2022 0:55	0.04
12/8/2022 0:56	-.-
12/8/2022 0:56	-.-
12/8/2022 0:56	0.05
12/8/2022 0:57	-.-
12/8/2022 0:57	-.-
12/8/2022 0:57	0.04
12/8/2022 0:58	-.-
12/8/2022 0:58	-.-
12/8/2022 0:58	0.04
12/8/2022 0:59	-.-
12/8/2022 0:59	-.-
12/8/2022 0:59	0.05
12/8/2022 1:00	-.-
12/8/2022 1:00	-.-
12/8/2022 1:00	0.04
12/8/2022 1:01	-.-
12/8/2022 1:01	-.-
12/8/2022 1:01	0.04
12/8/2022 1:02	-.-
12/8/2022 1:02	-.-
12/8/2022 1:02	0.04
12/8/2022 1:03	-.-
12/8/2022 1:03	-.-
12/8/2022 1:03	0.04
12/8/2022 1:04	-.-
12/8/2022 1:04	-.-
12/8/2022 1:04	0.04
12/8/2022 1:05	-.-
12/8/2022 1:05	-.-
12/8/2022 1:05	0.05

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 3:46	0.06
13/8/2022 3:47	-.-
13/8/2022 3:48	-.-
13/8/2022 3:47	0.06
13/8/2022 3:48	-.-
13/8/2022 3:49	-.-
13/8/2022 3:48	0.08
13/8/2022 3:49	-.-
13/8/2022 3:50	-.-
13/8/2022 3:49	0.04
13/8/2022 3:50	-.-
13/8/2022 3:51	-.-
13/8/2022 3:50	0.04
13/8/2022 3:51	-.-
13/8/2022 3:52	-.-
13/8/2022 3:51	0.05
13/8/2022 3:52	-.-
13/8/2022 3:53	-.-
13/8/2022 3:52	0.04
13/8/2022 3:53	-.-
13/8/2022 3:54	-.-
13/8/2022 3:53	0.04
13/8/2022 3:54	-.-
13/8/2022 3:55	-.-
13/8/2022 3:54	0.04
13/8/2022 3:55	-.-
13/8/2022 3:56	-.-
13/8/2022 3:55	0.05
13/8/2022 3:56	-.-
13/8/2022 3:57	-.-
13/8/2022 3:56	0.04
13/8/2022 3:57	-.-
13/8/2022 3:58	-.-
13/8/2022 3:57	0.08
13/8/2022 3:58	-.-
13/8/2022 3:59	-.-
13/8/2022 3:58	0.04
13/8/2022 3:59	-.-
13/8/2022 4:00	-.-
13/8/2022 3:59	0.04
13/8/2022 4:00	-.-
13/8/2022 4:01	-.-
13/8/2022 4:00	0.04

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 4:43	0.05
9/8/2022 4:44	-.-
9/8/2022 4:45	-.-
9/8/2022 4:44	0.04
9/8/2022 4:45	-.-
9/8/2022 4:46	-.-
9/8/2022 4:45	0.04
9/8/2022 4:46	-.-
9/8/2022 4:47	-.-
9/8/2022 4:46	0.04
9/8/2022 4:47	-.-
9/8/2022 4:48	-.-
9/8/2022 4:47	0.04
9/8/2022 4:48	-.-
9/8/2022 4:49	-.-
9/8/2022 4:48	0.04
9/8/2022 4:49	-.-
9/8/2022 4:50	-.-
9/8/2022 4:49	0.04
9/8/2022 4:50	-.-
9/8/2022 4:51	-.-
9/8/2022 4:50	0.04
9/8/2022 4:51	-.-
9/8/2022 4:52	-.-
9/8/2022 4:51	0.04
9/8/2022 4:52	-.-
9/8/2022 4:53	-.-
9/8/2022 4:52	0.09
9/8/2022 4:53	-.-
9/8/2022 4:54	-.-
9/8/2022 4:53	0.12
9/8/2022 4:54	-.-
9/8/2022 4:55	-.-
9/8/2022 4:54	0.04
9/8/2022 4:55	-.-
9/8/2022 4:56	-.-
9/8/2022 4:55	0.04
9/8/2022 4:56	-.-
9/8/2022 4:57	-.-
9/8/2022 4:56	0.04
9/8/2022 4:57	-.-
9/8/2022 4:58	-.-
9/8/2022 4:57	0.04

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 1:06	-.-
12/8/2022 1:06	-.-
12/8/2022 1:06	0.05
12/8/2022 1:07	-.-
12/8/2022 1:07	-.-
12/8/2022 1:07	0.04
12/8/2022 1:08	-.-
12/8/2022 1:08	-.-
12/8/2022 1:08	0.04
12/8/2022 1:09	-.-
12/8/2022 1:09	-.-
12/8/2022 1:09	0.05
12/8/2022 1:10	-.-
12/8/2022 1:10	-.-
12/8/2022 1:10	0.05
12/8/2022 1:11	-.-
12/8/2022 1:11	-.-
12/8/2022 1:11	0.04
12/8/2022 1:12	-.-
12/8/2022 1:12	-.-
12/8/2022 1:12	0.05
12/8/2022 1:13	-.-
12/8/2022 1:13	-.-
12/8/2022 1:13	0.04
12/8/2022 1:14	-.-
12/8/2022 1:14	-.-
12/8/2022 1:14	0.04
12/8/2022 1:15	-.-
12/8/2022 1:15	-.-
12/8/2022 1:15	0.04
12/8/2022 1:16	-.-
12/8/2022 1:16	-.-
12/8/2022 1:16	0.04
12/8/2022 1:17	-.-
12/8/2022 1:17	-.-
12/8/2022 1:17	0.04
12/8/2022 1:18	-.-
12/8/2022 1:18	-.-
12/8/2022 1:18	0.04
12/8/2022 1:19	-.-
12/8/2022 1:19	-.-
12/8/2022 1:19	0.05
12/8/2022 1:20	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 4:01	-.-
13/8/2022 4:02	-.-
13/8/2022 4:01	0.04
13/8/2022 4:02	-.-
13/8/2022 4:03	-.-
13/8/2022 4:02	0.04
13/8/2022 4:03	-.-
13/8/2022 4:04	-.-
13/8/2022 4:03	0.04
13/8/2022 4:04	-.-
13/8/2022 4:05	-.-
13/8/2022 4:04	0.05
13/8/2022 4:05	-.-
13/8/2022 4:06	-.-
13/8/2022 4:05	0.05
13/8/2022 4:06	-.-
13/8/2022 4:07	-.-
13/8/2022 4:06	0.04
13/8/2022 4:07	-.-
13/8/2022 4:08	-.-
13/8/2022 4:07	0.11
13/8/2022 4:08	-.-
13/8/2022 4:09	-.-
13/8/2022 4:08	0.04
13/8/2022 4:09	-.-
13/8/2022 4:10	-.-
13/8/2022 4:09	0.04
13/8/2022 4:10	-.-
13/8/2022 4:11	-.-
13/8/2022 4:10	0.05
13/8/2022 4:11	-.-
13/8/2022 4:12	-.-
13/8/2022 4:11	0.05
13/8/2022 4:12	-.-
13/8/2022 4:13	-.-
13/8/2022 4:12	0.05
13/8/2022 4:13	-.-
13/8/2022 4:14	-.-
13/8/2022 4:13	0.05
13/8/2022 4:14	-.-
13/8/2022 4:15	-.-
13/8/2022 4:14	0.12
13/8/2022 4:15	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 4:58	-.-
9/8/2022 4:59	-.-
9/8/2022 4:58	0.04
9/8/2022 4:59	-.-
9/8/2022 5:00	-.-
9/8/2022 4:59	0.04
9/8/2022 5:00	-.-
9/8/2022 5:01	-.-
9/8/2022 5:00	0.04
9/8/2022 5:01	-.-
9/8/2022 5:02	-.-
9/8/2022 5:01	0.04
9/8/2022 5:02	-.-
9/8/2022 5:03	-.-
9/8/2022 5:02	0.06
9/8/2022 5:03	-.-
9/8/2022 5:04	-.-
9/8/2022 5:03	0.04
9/8/2022 5:04	-.-
9/8/2022 5:05	-.-
9/8/2022 5:04	0.05
9/8/2022 5:05	-.-
9/8/2022 5:06	-.-
9/8/2022 5:05	0.04
9/8/2022 5:06	-.-
9/8/2022 5:07	-.-
9/8/2022 5:06	0.04
9/8/2022 5:07	-.-
9/8/2022 5:08	-.-
9/8/2022 5:07	0.04
9/8/2022 5:08	-.-
9/8/2022 5:09	-.-
9/8/2022 5:08	0.05
9/8/2022 5:09	-.-
9/8/2022 5:10	-.-
9/8/2022 5:09	0.04
9/8/2022 5:10	-.-
9/8/2022 5:11	-.-
9/8/2022 5:10	0.04
9/8/2022 5:11	-.-
9/8/2022 5:12	-.-
9/8/2022 5:11	0.04
9/8/2022 5:12	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 1:20	-.-
12/8/2022 1:20	0.04
12/8/2022 1:21	-.-
12/8/2022 1:21	-.-
12/8/2022 1:21	0.05
12/8/2022 1:22	-.-
12/8/2022 1:22	-.-
12/8/2022 1:22	0.04
12/8/2022 1:23	-.-
12/8/2022 1:23	-.-
12/8/2022 1:23	0.05
12/8/2022 1:24	-.-
12/8/2022 1:24	-.-
12/8/2022 1:24	0.04
12/8/2022 1:25	-.-
12/8/2022 1:25	-.-
12/8/2022 1:25	0.04
12/8/2022 1:26	-.-
12/8/2022 1:26	-.-
12/8/2022 1:26	0.04
12/8/2022 1:27	-.-
12/8/2022 1:27	-.-
12/8/2022 1:27	0.05
12/8/2022 1:28	-.-
12/8/2022 1:28	-.-
12/8/2022 1:28	0.05
12/8/2022 1:29	-.-
12/8/2022 1:29	-.-
12/8/2022 1:29	0.04
12/8/2022 1:30	-.-
12/8/2022 1:30	-.-
12/8/2022 1:30	0.04
12/8/2022 1:31	-.-
12/8/2022 1:31	-.-
12/8/2022 1:31	0.05
12/8/2022 1:32	-.-
12/8/2022 1:32	-.-
12/8/2022 1:32	0.05
12/8/2022 1:33	-.-
12/8/2022 1:33	-.-
12/8/2022 1:33	0.04
12/8/2022 1:34	-.-
12/8/2022 1:34	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 4:16	-.-
13/8/2022 4:15	0.04
13/8/2022 4:16	-.-
13/8/2022 4:17	-.-
13/8/2022 4:16	0.04
13/8/2022 4:17	-.-
13/8/2022 4:18	-.-
13/8/2022 4:17	0.04
13/8/2022 4:18	-.-
13/8/2022 4:19	-.-
13/8/2022 4:18	0.05
13/8/2022 4:19	-.-
13/8/2022 4:20	-.-
13/8/2022 4:19	0.04
13/8/2022 4:20	-.-
13/8/2022 4:21	-.-
13/8/2022 4:20	0.04
13/8/2022 4:21	-.-
13/8/2022 4:22	-.-
13/8/2022 4:21	0.04
13/8/2022 4:22	-.-
13/8/2022 4:23	-.-
13/8/2022 4:22	0.04
13/8/2022 4:23	-.-
13/8/2022 4:24	-.-
13/8/2022 4:23	0.16
13/8/2022 4:24	-.-
13/8/2022 4:25	-.-
13/8/2022 4:24	0.05
13/8/2022 4:25	-.-
13/8/2022 4:26	-.-
13/8/2022 4:25	0.04
13/8/2022 4:26	-.-
13/8/2022 4:27	-.-
13/8/2022 4:26	0.05
13/8/2022 4:27	-.-
13/8/2022 4:28	-.-
13/8/2022 4:27	0.05
13/8/2022 4:28	-.-
13/8/2022 4:29	-.-
13/8/2022 4:28	0.04
13/8/2022 4:29	-.-
13/8/2022 4:30	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 5:13	-.-
9/8/2022 5:12	0.04
9/8/2022 5:13	-.-
9/8/2022 5:14	-.-
9/8/2022 5:13	0.04
9/8/2022 5:14	-.-
9/8/2022 5:15	-.-
9/8/2022 5:14	0.05
9/8/2022 5:15	-.-
9/8/2022 5:16	-.-
9/8/2022 5:15	0.04
9/8/2022 5:16	-.-
9/8/2022 5:17	-.-
9/8/2022 5:16	0.04
9/8/2022 5:17	-.-
9/8/2022 5:18	-.-
9/8/2022 5:17	0.04
9/8/2022 5:18	-.-
9/8/2022 5:19	-.-
9/8/2022 5:18	0.04
9/8/2022 5:19	-.-
9/8/2022 5:20	-.-
9/8/2022 5:19	0.04
9/8/2022 5:20	-.-
9/8/2022 5:21	-.-
9/8/2022 5:20	0.04
9/8/2022 5:21	-.-
9/8/2022 5:22	-.-
9/8/2022 5:21	0.04
9/8/2022 5:22	-.-
9/8/2022 5:23	-.-
9/8/2022 5:22	0.05
9/8/2022 5:23	-.-
9/8/2022 5:24	-.-
9/8/2022 5:23	0.04
9/8/2022 5:24	-.-
9/8/2022 5:25	-.-
9/8/2022 5:24	0.04
9/8/2022 5:25	-.-
9/8/2022 5:26	-.-
9/8/2022 5:25	0.04
9/8/2022 5:26	-.-
9/8/2022 5:27	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 1:34	0.04
12/8/2022 1:35	-.-
12/8/2022 1:35	-.-
12/8/2022 1:35	0.04
12/8/2022 1:36	-.-
12/8/2022 1:36	-.-
12/8/2022 1:36	0.04
12/8/2022 1:37	-.-
12/8/2022 1:37	-.-
12/8/2022 1:37	0.05
12/8/2022 1:38	-.-
12/8/2022 1:38	-.-
12/8/2022 1:38	0.04
12/8/2022 1:39	-.-
12/8/2022 1:39	-.-
12/8/2022 1:39	0.04
12/8/2022 1:40	-.-
12/8/2022 1:40	-.-
12/8/2022 1:40	0.04
12/8/2022 1:41	-.-
12/8/2022 1:41	-.-
12/8/2022 1:41	0.04
12/8/2022 1:42	-.-
12/8/2022 1:42	-.-
12/8/2022 1:42	0.04
12/8/2022 1:43	-.-
12/8/2022 1:43	-.-
12/8/2022 1:43	0.04
12/8/2022 1:44	-.-
12/8/2022 1:44	-.-
12/8/2022 1:44	0.05
12/8/2022 1:45	-.-
12/8/2022 1:45	-.-
12/8/2022 1:45	0.04
12/8/2022 1:46	-.-
12/8/2022 1:46	-.-
12/8/2022 1:46	0.04
12/8/2022 1:47	-.-
12/8/2022 1:47	-.-
12/8/2022 1:47	0.04
12/8/2022 1:48	-.-
12/8/2022 1:48	-.-
12/8/2022 1:48	0.04

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 4:29	0.04
13/8/2022 4:30	-.-
13/8/2022 4:31	-.-
13/8/2022 4:30	0.05
13/8/2022 4:31	-.-
13/8/2022 4:32	-.-
13/8/2022 4:31	0.05
13/8/2022 4:32	-.-
13/8/2022 4:33	-.-
13/8/2022 4:32	0.05
13/8/2022 4:33	-.-
13/8/2022 4:34	-.-
13/8/2022 4:33	0.04
13/8/2022 4:34	-.-
13/8/2022 4:35	-.-
13/8/2022 4:34	0.05
13/8/2022 4:35	-.-
13/8/2022 4:36	-.-
13/8/2022 4:35	0.04
13/8/2022 4:36	-.-
13/8/2022 4:37	-.-
13/8/2022 4:36	0.05
13/8/2022 4:37	-.-
13/8/2022 4:38	-.-
13/8/2022 4:37	0.04
13/8/2022 4:38	-.-
13/8/2022 4:39	-.-
13/8/2022 4:38	0.14
13/8/2022 4:39	-.-
13/8/2022 4:40	-.-
13/8/2022 4:39	0.27
13/8/2022 4:40	-.-
13/8/2022 4:41	-.-
13/8/2022 4:40	0.04
13/8/2022 4:41	-.-
13/8/2022 4:42	-.-
13/8/2022 4:41	0.05
13/8/2022 4:42	-.-
13/8/2022 4:43	-.-
13/8/2022 4:42	0.05
13/8/2022 4:43	-.-
13/8/2022 4:44	-.-
13/8/2022 4:43	0.04

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 5:26	0.04
9/8/2022 5:27	-.-
9/8/2022 5:28	-.-
9/8/2022 5:27	0.04
9/8/2022 5:28	-.-
9/8/2022 5:29	-.-
9/8/2022 5:28	0.04
9/8/2022 5:29	-.-
9/8/2022 5:30	-.-
9/8/2022 5:29	0.04
9/8/2022 5:30	-.-
9/8/2022 5:31	-.-
9/8/2022 5:30	0.04
9/8/2022 5:31	-.-
9/8/2022 5:32	-.-
9/8/2022 5:31	0.04
9/8/2022 5:32	-.-
9/8/2022 5:33	-.-
9/8/2022 5:32	0.04
9/8/2022 5:33	-.-
9/8/2022 5:34	-.-
9/8/2022 5:33	0.05
9/8/2022 5:34	-.-
9/8/2022 5:35	-.-
9/8/2022 5:34	0.04
9/8/2022 5:35	-.-
9/8/2022 5:36	-.-
9/8/2022 5:35	0.04
9/8/2022 5:36	-.-
9/8/2022 5:37	-.-
9/8/2022 5:36	0.06
9/8/2022 5:37	-.-
9/8/2022 5:38	-.-
9/8/2022 5:37	0.04
9/8/2022 5:38	-.-
9/8/2022 5:39	-.-
9/8/2022 5:38	0.04
9/8/2022 5:39	-.-
9/8/2022 5:40	-.-
9/8/2022 5:39	0.04
9/8/2022 5:40	-.-
9/8/2022 5:41	-.-
9/8/2022 5:40	0.04

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 1:49	-.-
12/8/2022 1:49	-.-
12/8/2022 1:49	0.05
12/8/2022 1:50	-.-
12/8/2022 1:50	-.-
12/8/2022 1:50	0.05
12/8/2022 1:51	-.-
12/8/2022 1:51	-.-
12/8/2022 1:51	0.04
12/8/2022 1:52	-.-
12/8/2022 1:52	-.-
12/8/2022 1:52	0.04
12/8/2022 1:53	-.-
12/8/2022 1:53	-.-
12/8/2022 1:53	0.04
12/8/2022 1:54	-.-
12/8/2022 1:54	-.-
12/8/2022 1:54	0.05
12/8/2022 1:55	-.-
12/8/2022 1:55	-.-
12/8/2022 1:55	0.05
12/8/2022 1:56	-.-
12/8/2022 1:56	-.-
12/8/2022 1:56	0.04
12/8/2022 1:57	-.-
12/8/2022 1:57	-.-
12/8/2022 1:57	0.04
12/8/2022 1:58	-.-
12/8/2022 1:58	-.-
12/8/2022 1:58	0.04
12/8/2022 1:59	-.-
12/8/2022 1:59	-.-
12/8/2022 1:59	0.05
12/8/2022 2:00	-.-
12/8/2022 2:00	-.-
12/8/2022 2:00	0.04
12/8/2022 2:01	-.-
12/8/2022 2:01	-.-
12/8/2022 2:01	0.04
12/8/2022 2:02	-.-
12/8/2022 2:02	-.-
12/8/2022 2:02	0.04
12/8/2022 2:03	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 4:44	-.-
13/8/2022 4:45	-.-
13/8/2022 4:44	0.04
13/8/2022 4:45	-.-
13/8/2022 4:46	-.-
13/8/2022 4:45	0.04
13/8/2022 4:46	-.-
13/8/2022 4:47	-.-
13/8/2022 4:46	0.04
13/8/2022 4:47	-.-
13/8/2022 4:48	-.-
13/8/2022 4:47	0.04
13/8/2022 4:48	-.-
13/8/2022 4:49	-.-
13/8/2022 4:48	0.32
13/8/2022 4:49	-.-
13/8/2022 4:50	-.-
13/8/2022 4:49	0.05
13/8/2022 4:50	-.-
13/8/2022 4:51	-.-
13/8/2022 4:50	0.05
13/8/2022 4:51	-.-
13/8/2022 4:52	-.-
13/8/2022 4:51	0.13
13/8/2022 4:52	-.-
13/8/2022 4:53	-.-
13/8/2022 4:52	0.09
13/8/2022 4:53	-.-
13/8/2022 4:54	-.-
13/8/2022 4:53	0.05
13/8/2022 4:54	-.-
13/8/2022 4:55	-.-
13/8/2022 4:54	0.05
13/8/2022 4:55	-.-
13/8/2022 4:56	-.-
13/8/2022 4:55	0.05
13/8/2022 4:56	-.-
13/8/2022 4:57	-.-
13/8/2022 4:56	0.04
13/8/2022 4:57	-.-
13/8/2022 4:58	-.-
13/8/2022 4:57	0.05
13/8/2022 4:58	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 5:41	-.-
9/8/2022 5:42	-.-
9/8/2022 5:41	0.05
9/8/2022 5:42	-.-
9/8/2022 5:43	-.-
9/8/2022 5:42	0.04
9/8/2022 5:43	-.-
9/8/2022 5:44	-.-
9/8/2022 5:43	0.04
9/8/2022 5:44	-.-
9/8/2022 5:45	-.-
9/8/2022 5:44	0.04
9/8/2022 5:45	-.-
9/8/2022 5:46	-.-
9/8/2022 5:45	0.04
9/8/2022 5:46	-.-
9/8/2022 5:47	-.-
9/8/2022 5:46	0.04
9/8/2022 5:47	-.-
9/8/2022 5:48	-.-
9/8/2022 5:47	0.04
9/8/2022 5:48	-.-
9/8/2022 5:49	-.-
9/8/2022 5:48	0.04
9/8/2022 5:49	-.-
9/8/2022 5:50	-.-
9/8/2022 5:49	0.05
9/8/2022 5:50	-.-
9/8/2022 5:51	-.-
9/8/2022 5:50	0.04
9/8/2022 5:51	-.-
9/8/2022 5:52	-.-
9/8/2022 5:51	0.05
9/8/2022 5:52	-.-
9/8/2022 5:53	-.-
9/8/2022 5:52	0.04
9/8/2022 5:53	-.-
9/8/2022 5:54	-.-
9/8/2022 5:53	0.05
9/8/2022 5:54	-.-
9/8/2022 5:55	-.-
9/8/2022 5:54	0.05
9/8/2022 5:55	-.-

Vibration data Station V1 15-16 Aug 2022		Vibration data Station V2 11-12 Aug 2022		Vibration data Station V3 12-13 Aug 2022		Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)
		12/8/2022 2:03	-.-	13/8/2022 4:59	-.-	9/8/2022 5:56	-.-
		12/8/2022 2:03	0.04	13/8/2022 4:58	0.04	9/8/2022 5:55	0.04
		12/8/2022 2:04	-.-	13/8/2022 4:59	-.-	9/8/2022 5:56	-.-
		12/8/2022 2:04	-.-	13/8/2022 5:00	-.-	9/8/2022 5:57	-.-
		12/8/2022 2:04	0.04	13/8/2022 4:59	0.04	9/8/2022 5:56	0.05
		12/8/2022 2:05	-.-	13/8/2022 5:00	-.-	9/8/2022 5:57	-.-
		12/8/2022 2:05	-.-	13/8/2022 5:01	-.-	9/8/2022 5:58	-.-
		12/8/2022 2:05	0.04	13/8/2022 5:00	0.07	9/8/2022 5:57	0.04
		12/8/2022 2:06	-.-	13/8/2022 5:01	-.-	9/8/2022 5:58	-.-
		12/8/2022 2:06	-.-	13/8/2022 5:02	-.-	9/8/2022 5:59	-.-
		12/8/2022 2:06	0.05	13/8/2022 5:01	0.04	9/8/2022 5:58	0.04
		12/8/2022 2:07	-.-	13/8/2022 5:02	-.-	9/8/2022 5:59	-.-
		12/8/2022 2:07	-.-	13/8/2022 5:03	-.-	9/8/2022 6:00	-.-
		12/8/2022 2:07	0.04	13/8/2022 5:02	0.06	9/8/2022 5:59	0.04
		12/8/2022 2:08	-.-	13/8/2022 5:03	-.-	9/8/2022 6:00	-.-
		12/8/2022 2:08	-.-	13/8/2022 5:04	-.-	9/8/2022 6:01	-.-
		12/8/2022 2:08	0.04	13/8/2022 5:03	0.04	9/8/2022 6:00	0.05
		12/8/2022 2:09	-.-	13/8/2022 5:04	-.-	9/8/2022 6:01	-.-
		12/8/2022 2:09	-.-	13/8/2022 5:05	-.-	9/8/2022 6:02	-.-
		12/8/2022 2:09	0.04	13/8/2022 5:04	0.07	9/8/2022 6:01	0.05
		12/8/2022 2:10	-.-	13/8/2022 5:05	-.-	9/8/2022 6:02	-.-
		12/8/2022 2:10	-.-	13/8/2022 5:06	-.-	9/8/2022 6:03	-.-
		12/8/2022 2:10	0.04	13/8/2022 5:05	0.05	9/8/2022 6:02	0.05
		12/8/2022 2:11	-.-	13/8/2022 5:06	-.-	9/8/2022 6:03	-.-
		12/8/2022 2:11	-.-	13/8/2022 5:07	-.-	9/8/2022 6:04	-.-
		12/8/2022 2:11	0.04	13/8/2022 5:06	0.05	9/8/2022 6:03	0.04
		12/8/2022 2:12	-.-	13/8/2022 5:07	-.-	9/8/2022 6:04	-.-
		12/8/2022 2:12	-.-	13/8/2022 5:08	-.-	9/8/2022 6:05	-.-
		12/8/2022 2:12	0.04	13/8/2022 5:07	0.23	9/8/2022 6:04	0.04
		12/8/2022 2:13	-.-	13/8/2022 5:08	-.-	9/8/2022 6:05	-.-
		12/8/2022 2:13	-.-	13/8/2022 5:09	-.-	9/8/2022 6:06	-.-
		12/8/2022 2:13	0.04	13/8/2022 5:08	0.05	9/8/2022 6:05	0.05
		12/8/2022 2:14	-.-	13/8/2022 5:09	-.-	9/8/2022 6:06	-.-
		12/8/2022 2:14	-.-	13/8/2022 5:10	-.-	9/8/2022 6:07	-.-
		12/8/2022 2:14	0.04	13/8/2022 5:09	0.04	9/8/2022 6:06	0.04
		12/8/2022 2:15	-.-	13/8/2022 5:10	-.-	9/8/2022 6:07	-.-
		12/8/2022 2:15	-.-	13/8/2022 5:11	-.-	9/8/2022 6:08	-.-
		12/8/2022 2:15	0.04	13/8/2022 5:10	0.04	9/8/2022 6:07	0.04
		12/8/2022 2:16	-.-	13/8/2022 5:11	-.-	9/8/2022 6:08	-.-
		12/8/2022 2:16	-.-	13/8/2022 5:12	-.-	9/8/2022 6:09	-.-
		12/8/2022 2:16	0.04	13/8/2022 5:11	0.04	9/8/2022 6:08	0.04
		12/8/2022 2:17	-.-	13/8/2022 5:12	-.-	9/8/2022 6:09	-.-
		12/8/2022 2:17	-.-	13/8/2022 5:13	-.-	9/8/2022 6:10	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 2:17	0.04
12/8/2022 2:18	-.-
12/8/2022 2:18	-.-
12/8/2022 2:18	0.04
12/8/2022 2:19	-.-
12/8/2022 2:19	-.-
12/8/2022 2:19	0.04
12/8/2022 2:20	-.-
12/8/2022 2:20	-.-
12/8/2022 2:20	0.04
12/8/2022 2:21	-.-
12/8/2022 2:21	-.-
12/8/2022 2:21	0.06
12/8/2022 2:22	-.-
12/8/2022 2:22	-.-
12/8/2022 2:22	0.04
12/8/2022 2:23	-.-
12/8/2022 2:23	-.-
12/8/2022 2:23	0.05
12/8/2022 2:24	-.-
12/8/2022 2:24	-.-
12/8/2022 2:24	0.05
12/8/2022 2:25	-.-
12/8/2022 2:25	-.-
12/8/2022 2:25	0.04
12/8/2022 2:26	-.-
12/8/2022 2:26	-.-
12/8/2022 2:26	0.05
12/8/2022 2:27	-.-
12/8/2022 2:27	-.-
12/8/2022 2:27	0.04
12/8/2022 2:28	-.-
12/8/2022 2:28	-.-
12/8/2022 2:28	0.04
12/8/2022 2:29	-.-
12/8/2022 2:29	-.-
12/8/2022 2:29	0.04
12/8/2022 2:30	-.-
12/8/2022 2:30	-.-
12/8/2022 2:30	0.04
12/8/2022 2:31	-.-
12/8/2022 2:31	-.-
12/8/2022 2:31	0.04

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 5:12	0.04
13/8/2022 5:13	-.-
13/8/2022 5:14	-.-
13/8/2022 5:13	0.05
13/8/2022 5:14	-.-
13/8/2022 5:15	-.-
13/8/2022 5:14	0.04
13/8/2022 5:15	-.-
13/8/2022 5:16	-.-
13/8/2022 5:15	0.08
13/8/2022 5:16	-.-
13/8/2022 5:17	-.-
13/8/2022 5:16	0.05
13/8/2022 5:17	-.-
13/8/2022 5:18	-.-
13/8/2022 5:17	0.04
13/8/2022 5:18	-.-
13/8/2022 5:19	-.-
13/8/2022 5:18	0.05
13/8/2022 5:19	-.-
13/8/2022 5:20	-.-
13/8/2022 5:19	0.05
13/8/2022 5:20	-.-
13/8/2022 5:21	-.-
13/8/2022 5:20	0.04
13/8/2022 5:21	-.-
13/8/2022 5:22	-.-
13/8/2022 5:21	0.04
13/8/2022 5:22	-.-
13/8/2022 5:23	-.-
13/8/2022 5:22	0.04
13/8/2022 5:23	-.-
13/8/2022 5:24	-.-
13/8/2022 5:23	0.04
13/8/2022 5:24	-.-
13/8/2022 5:25	-.-
13/8/2022 5:24	0.04
13/8/2022 5:25	-.-
13/8/2022 5:26	-.-
13/8/2022 5:25	0.05
13/8/2022 5:26	-.-
13/8/2022 5:27	-.-
13/8/2022 5:26	0.11

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 6:09	0.04
9/8/2022 6:10	-.-
9/8/2022 6:11	-.-
9/8/2022 6:10	0.04
9/8/2022 6:11	-.-
9/8/2022 6:12	-.-
9/8/2022 6:11	0.04
9/8/2022 6:12	-.-
9/8/2022 6:13	-.-
9/8/2022 6:12	0.04
9/8/2022 6:13	-.-
9/8/2022 6:14	-.-
9/8/2022 6:13	0.04
9/8/2022 6:14	-.-
9/8/2022 6:15	-.-
9/8/2022 6:14	0.04
9/8/2022 6:15	-.-
9/8/2022 6:16	-.-
9/8/2022 6:15	0.04
9/8/2022 6:16	-.-
9/8/2022 6:17	-.-
9/8/2022 6:16	0.04
9/8/2022 6:17	-.-
9/8/2022 6:18	-.-
9/8/2022 6:17	0.04
9/8/2022 6:18	-.-
9/8/2022 6:19	-.-
9/8/2022 6:18	0.04
9/8/2022 6:19	-.-
9/8/2022 6:20	-.-
9/8/2022 6:19	0.04
9/8/2022 6:20	-.-
9/8/2022 6:21	-.-
9/8/2022 6:20	0.05
9/8/2022 6:21	-.-
9/8/2022 6:22	-.-
9/8/2022 6:21	0.04
9/8/2022 6:22	-.-
9/8/2022 6:23	-.-
9/8/2022 6:22	0.05
9/8/2022 6:23	-.-
9/8/2022 6:24	-.-
9/8/2022 6:23	0.05

Vibration data Station V1 15-16 Aug 2022		Vibration data Station V2 11-12 Aug 2022		Vibration data Station V3 12-13 Aug 2022		Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)
		12/8/2022 2:32	-.-	13/8/2022 5:27	-.-	9/8/2022 6:24	-.-
		12/8/2022 2:32	-.-	13/8/2022 5:28	-.-	9/8/2022 6:25	-.-
		12/8/2022 2:32	0.05	13/8/2022 5:27	0.05	9/8/2022 6:24	0.05
		12/8/2022 2:33	-.-	13/8/2022 5:28	-.-	9/8/2022 6:25	-.-
		12/8/2022 2:33	-.-	13/8/2022 5:29	-.-	9/8/2022 6:26	-.-
		12/8/2022 2:33	0.04	13/8/2022 5:28	0.14	9/8/2022 6:25	0.04
		12/8/2022 2:34	-.-	13/8/2022 5:29	-.-	9/8/2022 6:26	-.-
		12/8/2022 2:34	-.-	13/8/2022 5:30	-.-	9/8/2022 6:27	-.-
		12/8/2022 2:34	0.04	13/8/2022 5:29	0.05	9/8/2022 6:26	0.04
		12/8/2022 2:35	-.-	13/8/2022 5:30	-.-	9/8/2022 6:27	-.-
		12/8/2022 2:35	-.-	13/8/2022 5:31	-.-	9/8/2022 6:28	-.-
		12/8/2022 2:35	0.05	13/8/2022 5:30	0.04	9/8/2022 6:27	0.05
		12/8/2022 2:36	-.-	13/8/2022 5:31	-.-	9/8/2022 6:28	-.-
		12/8/2022 2:36	-.-	13/8/2022 5:32	-.-	9/8/2022 6:29	-.-
		12/8/2022 2:36	0.04	13/8/2022 5:31	0.12	9/8/2022 6:28	0.04
		12/8/2022 2:37	-.-	13/8/2022 5:32	-.-	9/8/2022 6:29	-.-
		12/8/2022 2:37	-.-	13/8/2022 5:33	-.-	9/8/2022 6:30	-.-
		12/8/2022 2:37	0.04	13/8/2022 5:32	0.08	9/8/2022 6:29	0.05
		12/8/2022 2:38	-.-	13/8/2022 5:33	-.-	9/8/2022 6:30	-.-
		12/8/2022 2:38	-.-	13/8/2022 5:34	-.-	9/8/2022 6:31	-.-
		12/8/2022 2:38	0.04	13/8/2022 5:33	0.06	9/8/2022 6:30	0.04
		12/8/2022 2:39	-.-	13/8/2022 5:34	-.-	9/8/2022 6:31	-.-
		12/8/2022 2:39	-.-	13/8/2022 5:35	-.-	9/8/2022 6:32	-.-
		12/8/2022 2:39	0.04	13/8/2022 5:34	0.19	9/8/2022 6:31	0.05
		12/8/2022 2:40	-.-	13/8/2022 5:35	-.-	9/8/2022 6:32	-.-
		12/8/2022 2:40	-.-	13/8/2022 5:36	-.-	9/8/2022 6:33	-.-
		12/8/2022 2:40	0.04	13/8/2022 5:35	0.05	9/8/2022 6:32	0.04
		12/8/2022 2:41	-.-	13/8/2022 5:36	-.-	9/8/2022 6:33	-.-
		12/8/2022 2:41	-.-	13/8/2022 5:37	-.-	9/8/2022 6:34	-.-
		12/8/2022 2:41	0.04	13/8/2022 5:36	0.05	9/8/2022 6:33	0.04
		12/8/2022 2:42	-.-	13/8/2022 5:37	-.-	9/8/2022 6:34	-.-
		12/8/2022 2:42	-.-	13/8/2022 5:38	-.-	9/8/2022 6:35	-.-
		12/8/2022 2:42	0.05	13/8/2022 5:37	0.04	9/8/2022 6:34	0.04
		12/8/2022 2:43	-.-	13/8/2022 5:38	-.-	9/8/2022 6:35	-.-
		12/8/2022 2:43	-.-	13/8/2022 5:39	-.-	9/8/2022 6:36	-.-
		12/8/2022 2:43	0.04	13/8/2022 5:38	0.05	9/8/2022 6:35	0.04
		12/8/2022 2:44	-.-	13/8/2022 5:39	-.-	9/8/2022 6:36	-.-
		12/8/2022 2:44	-.-	13/8/2022 5:40	-.-	9/8/2022 6:37	-.-
		12/8/2022 2:44	0.04	13/8/2022 5:39	0.07	9/8/2022 6:36	0.05
		12/8/2022 2:45	-.-	13/8/2022 5:40	-.-	9/8/2022 6:37	-.-
		12/8/2022 2:45	-.-	13/8/2022 5:41	-.-	9/8/2022 6:38	-.-
		12/8/2022 2:45	0.04	13/8/2022 5:40	0.05	9/8/2022 6:37	0.05
		12/8/2022 2:46	-.-	13/8/2022 5:41	-.-	9/8/2022 6:38	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 2:46	-.-
12/8/2022 2:46	0.05
12/8/2022 2:47	-.-
12/8/2022 2:47	-.-
12/8/2022 2:47	0.05
12/8/2022 2:48	-.-
12/8/2022 2:48	-.-
12/8/2022 2:48	0.04
12/8/2022 2:49	-.-
12/8/2022 2:49	-.-
12/8/2022 2:49	0.04
12/8/2022 2:50	-.-
12/8/2022 2:50	-.-
12/8/2022 2:50	0.04
12/8/2022 2:51	-.-
12/8/2022 2:51	-.-
12/8/2022 2:51	0.05
12/8/2022 2:52	-.-
12/8/2022 2:52	-.-
12/8/2022 2:52	0.04
12/8/2022 2:53	-.-
12/8/2022 2:53	-.-
12/8/2022 2:53	0.04
12/8/2022 2:54	-.-
12/8/2022 2:54	-.-
12/8/2022 2:54	0.04
12/8/2022 2:55	-.-
12/8/2022 2:55	-.-
12/8/2022 2:55	0.05
12/8/2022 2:56	-.-
12/8/2022 2:56	-.-
12/8/2022 2:56	0.04
12/8/2022 2:57	-.-
12/8/2022 2:57	-.-
12/8/2022 2:57	0.05
12/8/2022 2:58	-.-
12/8/2022 2:58	-.-
12/8/2022 2:58	0.04
12/8/2022 2:59	-.-
12/8/2022 2:59	-.-
12/8/2022 2:59	0.04
12/8/2022 3:00	-.-
12/8/2022 3:00	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 5:42	-.-
13/8/2022 5:41	0.06
13/8/2022 5:42	-.-
13/8/2022 5:43	-.-
13/8/2022 5:42	0.17
13/8/2022 5:43	-.-
13/8/2022 5:44	-.-
13/8/2022 5:43	0.05
13/8/2022 5:44	-.-
13/8/2022 5:45	-.-
13/8/2022 5:44	0.05
13/8/2022 5:45	-.-
13/8/2022 5:46	-.-
13/8/2022 5:45	0.05
13/8/2022 5:46	-.-
13/8/2022 5:47	-.-
13/8/2022 5:46	0.05
13/8/2022 5:47	-.-
13/8/2022 5:48	-.-
13/8/2022 5:47	0.05
13/8/2022 5:48	-.-
13/8/2022 5:49	-.-
13/8/2022 5:48	0.05
13/8/2022 5:49	-.-
13/8/2022 5:50	-.-
13/8/2022 5:49	0.06
13/8/2022 5:50	-.-
13/8/2022 5:51	-.-
13/8/2022 5:50	0.07
13/8/2022 5:51	-.-
13/8/2022 5:52	-.-
13/8/2022 5:51	0.19
13/8/2022 5:52	-.-
13/8/2022 5:53	-.-
13/8/2022 5:52	0.05
13/8/2022 5:53	-.-
13/8/2022 5:54	-.-
13/8/2022 5:53	0.04
13/8/2022 5:54	-.-
13/8/2022 5:55	-.-
13/8/2022 5:54	0.04
13/8/2022 5:55	-.-
13/8/2022 5:56	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 6:39	-.-
9/8/2022 6:38	0.04
9/8/2022 6:39	-.-
9/8/2022 6:40	-.-
9/8/2022 6:39	0.05
9/8/2022 6:40	-.-
9/8/2022 6:41	-.-
9/8/2022 6:40	0.04
9/8/2022 6:41	-.-
9/8/2022 6:42	-.-
9/8/2022 6:41	0.04
9/8/2022 6:42	-.-
9/8/2022 6:43	-.-
9/8/2022 6:42	0.05
9/8/2022 6:43	-.-
9/8/2022 6:44	-.-
9/8/2022 6:43	0.04
9/8/2022 6:44	-.-
9/8/2022 6:45	-.-
9/8/2022 6:44	0.05
9/8/2022 6:45	-.-
9/8/2022 6:46	-.-
9/8/2022 6:45	0.04
9/8/2022 6:46	-.-
9/8/2022 6:47	-.-
9/8/2022 6:46	0.04
9/8/2022 6:47	-.-
9/8/2022 6:48	-.-
9/8/2022 6:47	0.04
9/8/2022 6:48	-.-
9/8/2022 6:49	-.-
9/8/2022 6:48	0.04
9/8/2022 6:49	-.-
9/8/2022 6:50	-.-
9/8/2022 6:49	0.05
9/8/2022 6:50	-.-
9/8/2022 6:51	-.-
9/8/2022 6:50	0.04
9/8/2022 6:51	-.-
9/8/2022 6:52	-.-
9/8/2022 6:51	0.05
9/8/2022 6:52	-.-
9/8/2022 6:53	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 3:00	0.04
12/8/2022 3:01	-.-
12/8/2022 3:01	-.-
12/8/2022 3:01	0.04
12/8/2022 3:02	-.-
12/8/2022 3:02	-.-
12/8/2022 3:02	0.04
12/8/2022 3:03	-.-
12/8/2022 3:03	-.-
12/8/2022 3:03	0.05
12/8/2022 3:04	-.-
12/8/2022 3:04	-.-
12/8/2022 3:04	0.05
12/8/2022 3:05	-.-
12/8/2022 3:05	-.-
12/8/2022 3:05	0.05
12/8/2022 3:06	-.-
12/8/2022 3:06	-.-
12/8/2022 3:06	0.04
12/8/2022 3:07	-.-
12/8/2022 3:07	-.-
12/8/2022 3:07	0.05
12/8/2022 3:08	-.-
12/8/2022 3:08	-.-
12/8/2022 3:08	0.05
12/8/2022 3:09	-.-
12/8/2022 3:09	-.-
12/8/2022 3:09	0.04
12/8/2022 3:10	-.-
12/8/2022 3:10	-.-
12/8/2022 3:10	0.04
12/8/2022 3:11	-.-
12/8/2022 3:11	-.-
12/8/2022 3:11	0.05
12/8/2022 3:12	-.-
12/8/2022 3:12	-.-
12/8/2022 3:12	0.04
12/8/2022 3:13	-.-
12/8/2022 3:13	-.-
12/8/2022 3:13	0.05
12/8/2022 3:14	-.-
12/8/2022 3:14	-.-
12/8/2022 3:14	0.04

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 5:55	0.06
13/8/2022 5:56	-.-
13/8/2022 5:57	-.-
13/8/2022 5:56	0.05
13/8/2022 5:57	-.-
13/8/2022 5:58	-.-
13/8/2022 5:57	0.15
13/8/2022 5:58	-.-
13/8/2022 5:59	-.-
13/8/2022 5:58	0.04
13/8/2022 5:59	-.-
13/8/2022 6:00	-.-
13/8/2022 5:59	0.12
13/8/2022 6:00	-.-
13/8/2022 6:01	-.-
13/8/2022 6:00	0.09
13/8/2022 6:01	-.-
13/8/2022 6:02	-.-
13/8/2022 6:01	0.05
13/8/2022 6:02	-.-
13/8/2022 6:03	-.-
13/8/2022 6:02	0.07
13/8/2022 6:03	-.-
13/8/2022 6:04	-.-
13/8/2022 6:03	0.05
13/8/2022 6:04	-.-
13/8/2022 6:05	-.-
13/8/2022 6:04	0.04
13/8/2022 6:05	-.-
13/8/2022 6:06	-.-
13/8/2022 6:05	0.04
13/8/2022 6:06	-.-
13/8/2022 6:07	-.-
13/8/2022 6:06	0.11
13/8/2022 6:07	-.-
13/8/2022 6:08	-.-
13/8/2022 6:07	0.04
13/8/2022 6:08	-.-
13/8/2022 6:09	-.-
13/8/2022 6:08	0.04
13/8/2022 6:09	-.-
13/8/2022 6:10	-.-
13/8/2022 6:09	0.04

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 6:52	0.04
9/8/2022 6:53	-.-
9/8/2022 6:54	-.-
9/8/2022 6:53	0.04
9/8/2022 6:54	-.-
9/8/2022 6:55	-.-
9/8/2022 6:54	0.04
9/8/2022 6:55	-.-
9/8/2022 6:56	-.-
9/8/2022 6:55	0.04
9/8/2022 6:56	-.-
9/8/2022 6:57	-.-
9/8/2022 6:56	0.04
9/8/2022 6:57	-.-
9/8/2022 6:58	-.-
9/8/2022 6:57	0.04
9/8/2022 6:58	-.-
9/8/2022 6:59	-.-
9/8/2022 6:58	0.04
9/8/2022 6:59	-.-
9/8/2022 7:00	-.-
9/8/2022 6:59	0.04
9/8/2022 7:00	-.-
9/8/2022 7:01	-.-
9/8/2022 7:00	0.04
9/8/2022 7:01	-.-
9/8/2022 7:02	-.-
9/8/2022 7:01	0.04
9/8/2022 7:02	-.-
9/8/2022 7:03	-.-
9/8/2022 7:02	0.04
9/8/2022 7:03	-.-
9/8/2022 7:04	-.-
9/8/2022 7:03	0.04
9/8/2022 7:04	-.-
9/8/2022 7:05	-.-
9/8/2022 7:04	0.04
9/8/2022 7:05	-.-
9/8/2022 7:06	-.-
9/8/2022 7:05	0.04
9/8/2022 7:06	-.-
9/8/2022 7:07	-.-
9/8/2022 7:06	0.04

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 3:15	-.-
12/8/2022 3:15	-.-
12/8/2022 3:15	0.04
12/8/2022 3:16	-.-
12/8/2022 3:16	-.-
12/8/2022 3:16	0.04
12/8/2022 3:17	-.-
12/8/2022 3:17	-.-
12/8/2022 3:17	0.04
12/8/2022 3:18	-.-
12/8/2022 3:18	-.-
12/8/2022 3:18	0.04
12/8/2022 3:19	-.-
12/8/2022 3:19	-.-
12/8/2022 3:19	0.04
12/8/2022 3:20	-.-
12/8/2022 3:20	-.-
12/8/2022 3:20	0.04
12/8/2022 3:21	-.-
12/8/2022 3:21	-.-
12/8/2022 3:21	0.04
12/8/2022 3:22	-.-
12/8/2022 3:22	-.-
12/8/2022 3:22	0.04
12/8/2022 3:23	-.-
12/8/2022 3:23	-.-
12/8/2022 3:23	0.04
12/8/2022 3:24	-.-
12/8/2022 3:24	-.-
12/8/2022 3:24	0.04
12/8/2022 3:25	-.-
12/8/2022 3:25	-.-
12/8/2022 3:25	0.04
12/8/2022 3:26	-.-
12/8/2022 3:26	-.-
12/8/2022 3:26	0.04
12/8/2022 3:27	-.-
12/8/2022 3:27	-.-
12/8/2022 3:27	0.05
12/8/2022 3:28	-.-
12/8/2022 3:28	-.-
12/8/2022 3:28	0.04
12/8/2022 3:29	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 6:10	-.-
13/8/2022 6:11	-.-
13/8/2022 6:10	0.11
13/8/2022 6:11	-.-
13/8/2022 6:12	-.-
13/8/2022 6:11	0.04
13/8/2022 6:12	-.-
13/8/2022 6:13	-.-
13/8/2022 6:12	0.05
13/8/2022 6:13	-.-
13/8/2022 6:14	-.-
13/8/2022 6:13	0.07
13/8/2022 6:14	-.-
13/8/2022 6:15	-.-
13/8/2022 6:14	0.09
13/8/2022 6:15	-.-
13/8/2022 6:16	-.-
13/8/2022 6:15	0.05
13/8/2022 6:16	-.-
13/8/2022 6:17	-.-
13/8/2022 6:16	0.12
13/8/2022 6:17	-.-
13/8/2022 6:18	-.-
13/8/2022 6:17	0.05
13/8/2022 6:18	-.-
13/8/2022 6:19	-.-
13/8/2022 6:18	0.06
13/8/2022 6:19	-.-
13/8/2022 6:20	-.-
13/8/2022 6:19	0.04
13/8/2022 6:20	-.-
13/8/2022 6:21	-.-
13/8/2022 6:20	0.05
13/8/2022 6:21	-.-
13/8/2022 6:22	-.-
13/8/2022 6:21	0.06
13/8/2022 6:22	-.-
13/8/2022 6:23	-.-
13/8/2022 6:22	0.05
13/8/2022 6:23	-.-
13/8/2022 6:24	-.-
13/8/2022 6:23	0.23
13/8/2022 6:24	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 7:07	-.-
9/8/2022 7:08	-.-
9/8/2022 7:07	0.04
9/8/2022 7:08	-.-
9/8/2022 7:09	-.-
9/8/2022 7:08	0.04
9/8/2022 7:09	-.-
9/8/2022 7:10	-.-
9/8/2022 7:09	0.04
9/8/2022 7:10	-.-
9/8/2022 7:11	-.-
9/8/2022 7:10	0.04
9/8/2022 7:11	-.-
9/8/2022 7:12	-.-
9/8/2022 7:11	0.05
9/8/2022 7:12	-.-
9/8/2022 7:13	-.-
9/8/2022 7:12	0.04
9/8/2022 7:13	-.-
9/8/2022 7:14	-.-
9/8/2022 7:13	0.05
9/8/2022 7:14	-.-
9/8/2022 7:15	-.-
9/8/2022 7:14	0.04
9/8/2022 7:15	-.-
9/8/2022 7:16	-.-
9/8/2022 7:15	0.05
9/8/2022 7:16	-.-
9/8/2022 7:17	-.-
9/8/2022 7:16	0.04
9/8/2022 7:17	-.-
9/8/2022 7:18	-.-
9/8/2022 7:17	0.04
9/8/2022 7:18	-.-
9/8/2022 7:19	-.-
9/8/2022 7:18	0.05
9/8/2022 7:19	-.-
9/8/2022 7:20	-.-
9/8/2022 7:19	0.05
9/8/2022 7:20	-.-
9/8/2022 7:21	-.-
9/8/2022 7:20	0.04
9/8/2022 7:21	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 3:29	-.-
12/8/2022 3:29	0.04
12/8/2022 3:30	-.-
12/8/2022 3:30	-.-
12/8/2022 3:30	0.04
12/8/2022 3:31	-.-
12/8/2022 3:31	-.-
12/8/2022 3:31	0.04
12/8/2022 3:32	-.-
12/8/2022 3:32	-.-
12/8/2022 3:32	0.04
12/8/2022 3:33	-.-
12/8/2022 3:33	-.-
12/8/2022 3:33	0.04
12/8/2022 3:34	-.-
12/8/2022 3:34	-.-
12/8/2022 3:34	0.04
12/8/2022 3:35	-.-
12/8/2022 3:35	-.-
12/8/2022 3:35	0.04
12/8/2022 3:36	-.-
12/8/2022 3:36	-.-
12/8/2022 3:36	0.04
12/8/2022 3:37	-.-
12/8/2022 3:37	-.-
12/8/2022 3:37	0.04
12/8/2022 3:38	-.-
12/8/2022 3:38	-.-
12/8/2022 3:38	0.04
12/8/2022 3:39	-.-
12/8/2022 3:39	-.-
12/8/2022 3:39	0.04
12/8/2022 3:40	-.-
12/8/2022 3:40	-.-
12/8/2022 3:40	0.04
12/8/2022 3:41	-.-
12/8/2022 3:41	-.-
12/8/2022 3:41	0.04
12/8/2022 3:42	-.-
12/8/2022 3:42	-.-
12/8/2022 3:42	0.04
12/8/2022 3:43	-.-
12/8/2022 3:43	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 6:25	-.-
13/8/2022 6:24	0.09
13/8/2022 6:25	-.-
13/8/2022 6:26	-.-
13/8/2022 6:25	0.05
13/8/2022 6:26	-.-
13/8/2022 6:27	-.-
13/8/2022 6:26	0.08
13/8/2022 6:27	-.-
13/8/2022 6:28	-.-
13/8/2022 6:27	0.11
13/8/2022 6:28	-.-
13/8/2022 6:29	-.-
13/8/2022 6:28	0.06
13/8/2022 6:29	-.-
13/8/2022 6:30	-.-
13/8/2022 6:29	0.14
13/8/2022 6:30	-.-
13/8/2022 6:31	-.-
13/8/2022 6:30	0.05
13/8/2022 6:31	-.-
13/8/2022 6:32	-.-
13/8/2022 6:31	0.05
13/8/2022 6:32	-.-
13/8/2022 6:33	-.-
13/8/2022 6:32	0.12
13/8/2022 6:33	-.-
13/8/2022 6:34	-.-
13/8/2022 6:33	0.07
13/8/2022 6:34	-.-
13/8/2022 6:35	-.-
13/8/2022 6:34	0.05
13/8/2022 6:35	-.-
13/8/2022 6:36	-.-
13/8/2022 6:35	0.18
13/8/2022 6:36	-.-
13/8/2022 6:37	-.-
13/8/2022 6:36	0.05
13/8/2022 6:37	-.-
13/8/2022 6:38	-.-
13/8/2022 6:37	0.09
13/8/2022 6:38	-.-
13/8/2022 6:39	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 7:22	-.-
9/8/2022 7:21	0.04
9/8/2022 7:22	-.-
9/8/2022 7:23	-.-
9/8/2022 7:22	0.04
9/8/2022 7:23	-.-
9/8/2022 7:24	-.-
9/8/2022 7:23	0.05
9/8/2022 7:24	-.-
9/8/2022 7:25	-.-
9/8/2022 7:24	0.05
9/8/2022 7:25	-.-
9/8/2022 7:26	-.-
9/8/2022 7:25	0.04
9/8/2022 7:26	-.-
9/8/2022 7:27	-.-
9/8/2022 7:26	0.04
9/8/2022 7:27	-.-
9/8/2022 7:28	-.-
9/8/2022 7:27	0.04
9/8/2022 7:28	-.-
9/8/2022 7:29	-.-
9/8/2022 7:28	0.04
9/8/2022 7:29	-.-
9/8/2022 7:30	-.-
9/8/2022 7:29	0.05
9/8/2022 7:30	-.-
9/8/2022 7:31	-.-
9/8/2022 7:30	0.04
9/8/2022 7:31	-.-
9/8/2022 7:32	-.-
9/8/2022 7:31	0.05
9/8/2022 7:32	-.-
9/8/2022 7:33	-.-
9/8/2022 7:32	0.04
9/8/2022 7:33	-.-
9/8/2022 7:34	-.-
9/8/2022 7:33	0.05
9/8/2022 7:34	-.-
9/8/2022 7:35	-.-
9/8/2022 7:34	0.04
9/8/2022 7:35	-.-
9/8/2022 7:36	-.-

Vibration data Station V1 15-16 Aug 2022		Vibration data Station V2 11-12 Aug 2022		Vibration data Station V3 12-13 Aug 2022		Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)
		12/8/2022 3:43	0.05	13/8/2022 6:38	0.1	9/8/2022 7:35	0.05
		12/8/2022 3:44	-.-	13/8/2022 6:39	-.-	9/8/2022 7:36	-.-
		12/8/2022 3:44	-.-	13/8/2022 6:40	-.-	9/8/2022 7:37	-.-
		12/8/2022 3:44	0.04	13/8/2022 6:39	0.05	9/8/2022 7:36	0.04
		12/8/2022 3:45	-.-	13/8/2022 6:40	-.-	9/8/2022 7:37	-.-
		12/8/2022 3:45	-.-	13/8/2022 6:41	-.-	9/8/2022 7:38	-.-
		12/8/2022 3:45	0.04	13/8/2022 6:40	0.05	9/8/2022 7:37	0.04
		12/8/2022 3:46	-.-	13/8/2022 6:41	-.-	9/8/2022 7:38	-.-
		12/8/2022 3:46	-.-	13/8/2022 6:42	-.-	9/8/2022 7:39	-.-
		12/8/2022 3:46	0.04	13/8/2022 6:41	0.12	9/8/2022 7:38	0.04
		12/8/2022 3:47	-.-	13/8/2022 6:42	-.-	9/8/2022 7:39	-.-
		12/8/2022 3:47	-.-	13/8/2022 6:43	-.-	9/8/2022 7:40	-.-
		12/8/2022 3:47	0.04	13/8/2022 6:42	0.08	9/8/2022 7:39	0.04
		12/8/2022 3:48	-.-	13/8/2022 6:43	-.-	9/8/2022 7:40	-.-
		12/8/2022 3:48	-.-	13/8/2022 6:44	-.-	9/8/2022 7:41	-.-
		12/8/2022 3:48	0.04	13/8/2022 6:43	0.05	9/8/2022 7:40	0.04
		12/8/2022 3:49	-.-	13/8/2022 6:44	-.-	9/8/2022 7:41	-.-
		12/8/2022 3:49	-.-	13/8/2022 6:45	-.-	9/8/2022 7:42	-.-
		12/8/2022 3:49	0.04	13/8/2022 6:44	0.26	9/8/2022 7:41	0.04
		12/8/2022 3:50	-.-	13/8/2022 6:45	-.-	9/8/2022 7:42	-.-
		12/8/2022 3:50	-.-	13/8/2022 6:46	-.-	9/8/2022 7:43	-.-
		12/8/2022 3:50	0.04	13/8/2022 6:45	0.1	9/8/2022 7:42	0.05
		12/8/2022 3:51	-.-	13/8/2022 6:46	-.-	9/8/2022 7:43	-.-
		12/8/2022 3:51	-.-	13/8/2022 6:47	-.-	9/8/2022 7:44	-.-
		12/8/2022 3:51	0.04	13/8/2022 6:46	0.05	9/8/2022 7:43	0.04
		12/8/2022 3:52	-.-	13/8/2022 6:47	-.-	9/8/2022 7:44	-.-
		12/8/2022 3:52	-.-	13/8/2022 6:48	-.-	9/8/2022 7:45	-.-
		12/8/2022 3:52	0.05	13/8/2022 6:47	0.05	9/8/2022 7:44	0.04
		12/8/2022 3:53	-.-	13/8/2022 6:48	-.-	9/8/2022 7:45	-.-
		12/8/2022 3:53	-.-	13/8/2022 6:49	-.-	9/8/2022 7:46	-.-
		12/8/2022 3:53	0.04	13/8/2022 6:48	0.06	9/8/2022 7:45	0.04
		12/8/2022 3:54	-.-	13/8/2022 6:49	-.-	9/8/2022 7:46	-.-
		12/8/2022 3:54	-.-	13/8/2022 6:50	-.-	9/8/2022 7:47	-.-
		12/8/2022 3:54	0.04	13/8/2022 6:49	0.14	9/8/2022 7:46	0.05
		12/8/2022 3:55	-.-	13/8/2022 6:50	-.-	9/8/2022 7:47	-.-
		12/8/2022 3:55	-.-	13/8/2022 6:51	-.-	9/8/2022 7:48	-.-
		12/8/2022 3:55	0.04	13/8/2022 6:50	0.05	9/8/2022 7:47	0.04
		12/8/2022 3:56	-.-	13/8/2022 6:51	-.-	9/8/2022 7:48	-.-
		12/8/2022 3:56	-.-	13/8/2022 6:52	-.-	9/8/2022 7:49	-.-
		12/8/2022 3:56	0.04	13/8/2022 6:51	0.05	9/8/2022 7:48	0.04
		12/8/2022 3:57	-.-	13/8/2022 6:52	-.-	9/8/2022 7:49	-.-
		12/8/2022 3:57	-.-	13/8/2022 6:53	-.-	9/8/2022 7:50	-.-
		12/8/2022 3:57	0.05	13/8/2022 6:52	0.05	9/8/2022 7:49	0.04

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 3:58	-.-
12/8/2022 3:58	-.-
12/8/2022 3:58	0.04
12/8/2022 3:59	-.-
12/8/2022 3:59	-.-
12/8/2022 3:59	0.04
12/8/2022 4:00	-.-
12/8/2022 4:00	-.-
12/8/2022 4:00	0.05
12/8/2022 4:01	-.-
12/8/2022 4:01	-.-
12/8/2022 4:01	0.05
12/8/2022 4:02	-.-
12/8/2022 4:02	-.-
12/8/2022 4:02	0.05
12/8/2022 4:03	-.-
12/8/2022 4:03	-.-
12/8/2022 4:03	0.04
12/8/2022 4:04	-.-
12/8/2022 4:04	-.-
12/8/2022 4:04	0.04
12/8/2022 4:05	-.-
12/8/2022 4:05	-.-
12/8/2022 4:05	0.04
12/8/2022 4:06	-.-
12/8/2022 4:06	-.-
12/8/2022 4:06	0.04
12/8/2022 4:07	-.-
12/8/2022 4:07	-.-
12/8/2022 4:07	0.04
12/8/2022 4:08	-.-
12/8/2022 4:08	-.-
12/8/2022 4:08	0.04
12/8/2022 4:09	-.-
12/8/2022 4:09	-.-
12/8/2022 4:09	0.04
12/8/2022 4:10	-.-
12/8/2022 4:10	-.-
12/8/2022 4:10	0.04
12/8/2022 4:11	-.-
12/8/2022 4:11	-.-
12/8/2022 4:11	0.04
12/8/2022 4:12	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 6:53	-.-
13/8/2022 6:54	-.-
13/8/2022 6:53	0.07
13/8/2022 6:54	-.-
13/8/2022 6:55	-.-
13/8/2022 6:54	0.06
13/8/2022 6:55	-.-
13/8/2022 6:56	-.-
13/8/2022 6:55	0.07
13/8/2022 6:56	-.-
13/8/2022 6:57	-.-
13/8/2022 6:56	0.06
13/8/2022 6:57	-.-
13/8/2022 6:58	-.-
13/8/2022 6:57	0.07
13/8/2022 6:58	-.-
13/8/2022 6:59	-.-
13/8/2022 6:58	0.14
13/8/2022 6:59	-.-
13/8/2022 7:00	-.-
13/8/2022 6:59	0.1
13/8/2022 7:00	-.-
13/8/2022 7:01	-.-
13/8/2022 7:00	0.05
13/8/2022 7:01	-.-
13/8/2022 7:02	-.-
13/8/2022 7:01	0.06
13/8/2022 7:02	-.-
13/8/2022 7:03	-.-
13/8/2022 7:02	0.07
13/8/2022 7:03	-.-
13/8/2022 7:04	-.-
13/8/2022 7:03	0.06
13/8/2022 7:04	-.-
13/8/2022 7:05	-.-
13/8/2022 7:04	0.12
13/8/2022 7:05	-.-
13/8/2022 7:06	-.-
13/8/2022 7:05	0.17
13/8/2022 7:06	-.-
13/8/2022 7:07	-.-
13/8/2022 7:06	0.05
13/8/2022 7:07	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 7:50	-.-
9/8/2022 7:51	-.-
9/8/2022 7:50	0.04
9/8/2022 7:51	-.-
9/8/2022 7:52	-.-
9/8/2022 7:51	0.04
9/8/2022 7:52	-.-
9/8/2022 7:53	-.-
9/8/2022 7:52	0.04
9/8/2022 7:53	-.-
9/8/2022 7:54	-.-
9/8/2022 7:53	0.04
9/8/2022 7:54	-.-
9/8/2022 7:55	-.-
9/8/2022 7:54	0.04
9/8/2022 7:55	-.-
9/8/2022 7:56	-.-
9/8/2022 7:55	0.04
9/8/2022 7:56	-.-
9/8/2022 7:57	-.-
9/8/2022 7:56	0.04
9/8/2022 7:57	-.-
9/8/2022 7:58	-.-
9/8/2022 7:57	0.05
9/8/2022 7:58	-.-
9/8/2022 7:59	-.-
9/8/2022 7:58	0.05
9/8/2022 7:59	-.-
9/8/2022 8:00	-.-
9/8/2022 7:59	0.04
9/8/2022 8:00	-.-
9/8/2022 8:01	-.-
9/8/2022 8:00	0.05
9/8/2022 8:01	-.-
9/8/2022 8:02	-.-
9/8/2022 8:01	0.04
9/8/2022 8:02	-.-
9/8/2022 8:03	-.-
9/8/2022 8:02	0.05
9/8/2022 8:03	-.-
9/8/2022 8:04	-.-
9/8/2022 8:03	0.04
9/8/2022 8:04	-.-

Vibration data Station V1 15-16 Aug 2022		Vibration data Station V2 11-12 Aug 2022		Vibration data Station V3 12-13 Aug 2022		Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)
		12/8/2022 4:12	-.-	13/8/2022 7:08	-.-	9/8/2022 8:05	-.-
		12/8/2022 4:12	0.04	13/8/2022 7:07	0.05	9/8/2022 8:04	0.04
		12/8/2022 4:13	-.-	13/8/2022 7:08	-.-	9/8/2022 8:05	-.-
		12/8/2022 4:13	-.-	13/8/2022 7:09	-.-	9/8/2022 8:06	-.-
		12/8/2022 4:13	0.05	13/8/2022 7:08	0.28	9/8/2022 8:05	0.05
		12/8/2022 4:14	-.-	13/8/2022 7:09	-.-	9/8/2022 8:06	-.-
		12/8/2022 4:14	-.-	13/8/2022 7:10	-.-	9/8/2022 8:07	-.-
		12/8/2022 4:14	0.04	13/8/2022 7:09	0.07	9/8/2022 8:06	0.05
		12/8/2022 4:15	-.-	13/8/2022 7:10	-.-	9/8/2022 8:07	-.-
		12/8/2022 4:15	-.-	13/8/2022 7:11	-.-	9/8/2022 8:08	-.-
		12/8/2022 4:15	0.05	13/8/2022 7:10	0.21	9/8/2022 8:07	0.04
		12/8/2022 4:16	-.-	13/8/2022 7:11	-.-	9/8/2022 8:08	-.-
		12/8/2022 4:16	-.-	13/8/2022 7:12	-.-	9/8/2022 8:09	-.-
		12/8/2022 4:16	0.05	13/8/2022 7:11	0.15	9/8/2022 8:08	0.04
		12/8/2022 4:17	-.-	13/8/2022 7:12	-.-	9/8/2022 8:09	-.-
		12/8/2022 4:17	-.-	13/8/2022 7:13	-.-	9/8/2022 8:10	-.-
		12/8/2022 4:17	0.04	13/8/2022 7:12	0.05	9/8/2022 8:09	0.1
		12/8/2022 4:18	-.-	13/8/2022 7:13	-.-	9/8/2022 8:10	-.-
		12/8/2022 4:18	-.-	13/8/2022 7:14	-.-	9/8/2022 8:11	-.-
		12/8/2022 4:18	0.04	13/8/2022 7:13	0.08	9/8/2022 8:10	0.05
		12/8/2022 4:19	-.-	13/8/2022 7:14	-.-	9/8/2022 8:11	-.-
		12/8/2022 4:19	-.-	13/8/2022 7:15	-.-	9/8/2022 8:12	-.-
		12/8/2022 4:19	0.05	13/8/2022 7:14	0.23	9/8/2022 8:11	0.05
		12/8/2022 4:20	-.-	13/8/2022 7:15	-.-	9/8/2022 8:12	-.-
		12/8/2022 4:20	-.-	13/8/2022 7:16	-.-	9/8/2022 8:13	-.-
		12/8/2022 4:20	0.04	13/8/2022 7:15	0.08	9/8/2022 8:12	0.04
		12/8/2022 4:21	-.-	13/8/2022 7:16	-.-	9/8/2022 8:13	-.-
		12/8/2022 4:21	-.-	13/8/2022 7:17	-.-	9/8/2022 8:14	-.-
		12/8/2022 4:21	0.04	13/8/2022 7:16	0.05	9/8/2022 8:13	0.08
		12/8/2022 4:22	-.-	13/8/2022 7:17	-.-	9/8/2022 8:14	-.-
		12/8/2022 4:22	-.-	13/8/2022 7:18	-.-	9/8/2022 8:15	-.-
		12/8/2022 4:22	0.04	13/8/2022 7:17	0.07	9/8/2022 8:14	0.04
		12/8/2022 4:23	-.-	13/8/2022 7:18	-.-	9/8/2022 8:15	-.-
		12/8/2022 4:23	-.-	13/8/2022 7:19	-.-	9/8/2022 8:16	-.-
		12/8/2022 4:23	0.04	13/8/2022 7:18	0.13	9/8/2022 8:15	0.05
		12/8/2022 4:24	-.-	13/8/2022 7:19	-.-	9/8/2022 8:16	-.-
		12/8/2022 4:24	-.-	13/8/2022 7:20	-.-	9/8/2022 8:17	-.-
		12/8/2022 4:24	0.04	13/8/2022 7:19	0.12	9/8/2022 8:16	0.04
		12/8/2022 4:25	-.-	13/8/2022 7:20	-.-	9/8/2022 8:17	-.-
		12/8/2022 4:25	-.-	13/8/2022 7:21	-.-	9/8/2022 8:18	-.-
		12/8/2022 4:25	0.05	13/8/2022 7:20	0.11	9/8/2022 8:17	0.04
		12/8/2022 4:26	-.-	13/8/2022 7:21	-.-	9/8/2022 8:18	-.-
		12/8/2022 4:26	-.-	13/8/2022 7:22	-.-	9/8/2022 8:19	-.-

Vibration data Station V1 15-16 Aug 2022		Vibration data Station V2 11-12 Aug 2022		Vibration data Station V3 12-13 Aug 2022		Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)
		12/8/2022 4:26	0.04	13/8/2022 7:21	0.05	9/8/2022 8:18	0.05
		12/8/2022 4:27	-.-	13/8/2022 7:22	-.-	9/8/2022 8:19	-.-
		12/8/2022 4:27	-.-	13/8/2022 7:23	-.-	9/8/2022 8:20	-.-
		12/8/2022 4:27	0.04	13/8/2022 7:22	0.07	9/8/2022 8:19	0.04
		12/8/2022 4:28	-.-	13/8/2022 7:23	-.-	9/8/2022 8:20	-.-
		12/8/2022 4:28	-.-	13/8/2022 7:24	-.-	9/8/2022 8:21	-.-
		12/8/2022 4:28	0.04	13/8/2022 7:23	0.1	9/8/2022 8:20	0.04
		12/8/2022 4:29	-.-	13/8/2022 7:24	-.-	9/8/2022 8:21	-.-
		12/8/2022 4:29	-.-	13/8/2022 7:25	-.-	9/8/2022 8:22	-.-
		12/8/2022 4:29	0.04	13/8/2022 7:24	0.18	9/8/2022 8:21	0.04
		12/8/2022 4:30	-.-	13/8/2022 7:25	-.-	9/8/2022 8:22	-.-
		12/8/2022 4:30	-.-	13/8/2022 7:26	-.-	9/8/2022 8:23	-.-
		12/8/2022 4:30	0.05	13/8/2022 7:25	0.16	9/8/2022 8:22	0.04
		12/8/2022 4:31	-.-	13/8/2022 7:26	-.-	9/8/2022 8:23	-.-
		12/8/2022 4:31	-.-	13/8/2022 7:27	-.-	9/8/2022 8:24	-.-
		12/8/2022 4:31	0.05	13/8/2022 7:26	0.18	9/8/2022 8:23	0.05
		12/8/2022 4:32	-.-	13/8/2022 7:27	-.-	9/8/2022 8:24	-.-
		12/8/2022 4:32	-.-	13/8/2022 7:28	-.-	9/8/2022 8:25	-.-
		12/8/2022 4:32	0.05	13/8/2022 7:27	0.05	9/8/2022 8:24	0.04
		12/8/2022 4:33	-.-	13/8/2022 7:28	-.-	9/8/2022 8:25	-.-
		12/8/2022 4:33	-.-	13/8/2022 7:29	-.-	9/8/2022 8:26	-.-
		12/8/2022 4:33	0.04	13/8/2022 7:28	0.07	9/8/2022 8:25	0.04
		12/8/2022 4:34	-.-	13/8/2022 7:29	-.-	9/8/2022 8:26	-.-
		12/8/2022 4:34	-.-	13/8/2022 7:30	-.-	9/8/2022 8:27	-.-
		12/8/2022 4:34	0.04	13/8/2022 7:29	0.08	9/8/2022 8:26	0.05
		12/8/2022 4:35	-.-	13/8/2022 7:30	-.-	9/8/2022 8:27	-.-
		12/8/2022 4:35	-.-	13/8/2022 7:31	-.-	9/8/2022 8:28	-.-
		12/8/2022 4:35	0.04	13/8/2022 7:30	0.18	9/8/2022 8:27	0.04
		12/8/2022 4:36	-.-	13/8/2022 7:31	-.-	9/8/2022 8:28	-.-
		12/8/2022 4:36	-.-	13/8/2022 7:32	-.-	9/8/2022 8:29	-.-
		12/8/2022 4:36	0.05	13/8/2022 7:31	0.05	9/8/2022 8:28	0.04
		12/8/2022 4:37	-.-	13/8/2022 7:32	-.-	9/8/2022 8:29	-.-
		12/8/2022 4:37	-.-	13/8/2022 7:33	-.-	9/8/2022 8:30	-.-
		12/8/2022 4:37	0.04	13/8/2022 7:32	0.08	9/8/2022 8:29	0.05
		12/8/2022 4:38	-.-	13/8/2022 7:33	-.-	9/8/2022 8:30	-.-
		12/8/2022 4:38	-.-	13/8/2022 7:34	-.-	9/8/2022 8:31	-.-
		12/8/2022 4:38	0.05	13/8/2022 7:33	0.06	9/8/2022 8:30	0.06
		12/8/2022 4:39	-.-	13/8/2022 7:34	-.-	9/8/2022 8:31	-.-
		12/8/2022 4:39	-.-	13/8/2022 7:35	-.-	9/8/2022 8:32	-.-
		12/8/2022 4:39	0.04	13/8/2022 7:34	0.07	9/8/2022 8:31	0.04
		12/8/2022 4:40	-.-	13/8/2022 7:35	-.-	9/8/2022 8:32	-.-
		12/8/2022 4:40	-.-	13/8/2022 7:36	-.-	9/8/2022 8:33	-.-
		12/8/2022 4:40	0.04	13/8/2022 7:35	0.26	9/8/2022 8:32	0.04

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 4:41	-.-
12/8/2022 4:41	-.-
12/8/2022 4:41	0.04
12/8/2022 4:42	-.-
12/8/2022 4:42	-.-
12/8/2022 4:42	0.04
12/8/2022 4:43	-.-
12/8/2022 4:43	-.-
12/8/2022 4:43	0.05
12/8/2022 4:44	-.-
12/8/2022 4:44	-.-
12/8/2022 4:44	0.05
12/8/2022 4:45	-.-
12/8/2022 4:45	-.-
12/8/2022 4:45	0.04
12/8/2022 4:46	-.-
12/8/2022 4:46	-.-
12/8/2022 4:46	0.04
12/8/2022 4:47	-.-
12/8/2022 4:47	-.-
12/8/2022 4:47	0.04
12/8/2022 4:48	-.-
12/8/2022 4:48	-.-
12/8/2022 4:48	0.04
12/8/2022 4:49	-.-
12/8/2022 4:49	-.-
12/8/2022 4:49	0.04
12/8/2022 4:50	-.-
12/8/2022 4:50	-.-
12/8/2022 4:50	0.04
12/8/2022 4:51	-.-
12/8/2022 4:51	-.-
12/8/2022 4:51	0.04
12/8/2022 4:52	-.-
12/8/2022 4:52	-.-
12/8/2022 4:52	0.05
12/8/2022 4:53	-.-
12/8/2022 4:53	-.-
12/8/2022 4:53	0.05
12/8/2022 4:54	-.-
12/8/2022 4:54	-.-
12/8/2022 4:54	0.04
12/8/2022 4:55	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 7:36	-.-
13/8/2022 7:37	-.-
13/8/2022 7:36	0.15
13/8/2022 7:37	-.-
13/8/2022 7:38	-.-
13/8/2022 7:37	0.05
13/8/2022 7:38	-.-
13/8/2022 7:39	-.-
13/8/2022 7:38	0.05
13/8/2022 7:39	-.-
13/8/2022 7:40	-.-
13/8/2022 7:39	0.08
13/8/2022 7:40	-.-
13/8/2022 7:41	-.-
13/8/2022 7:40	0.14
13/8/2022 7:41	-.-
13/8/2022 7:42	-.-
13/8/2022 7:41	0.06
13/8/2022 7:42	-.-
13/8/2022 7:43	-.-
13/8/2022 7:42	0.05
13/8/2022 7:43	-.-
13/8/2022 7:44	-.-
13/8/2022 7:43	0.1
13/8/2022 7:44	-.-
13/8/2022 7:45	-.-
13/8/2022 7:44	0.06
13/8/2022 7:45	-.-
13/8/2022 7:46	-.-
13/8/2022 7:45	0.05
13/8/2022 7:46	-.-
13/8/2022 7:47	-.-
13/8/2022 7:46	0.09
13/8/2022 7:47	-.-
13/8/2022 7:48	-.-
13/8/2022 7:47	0.16
13/8/2022 7:48	-.-
13/8/2022 7:49	-.-
13/8/2022 7:48	0.32
13/8/2022 7:49	-.-
13/8/2022 7:50	-.-
13/8/2022 7:49	0.14
13/8/2022 7:50	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 8:33	-.-
9/8/2022 8:34	-.-
9/8/2022 8:33	0.04
9/8/2022 8:34	-.-
9/8/2022 8:35	-.-
9/8/2022 8:34	0.04
9/8/2022 8:35	-.-
9/8/2022 8:36	-.-
9/8/2022 8:35	0.05
9/8/2022 8:36	-.-
9/8/2022 8:37	-.-
9/8/2022 8:36	0.04
9/8/2022 8:37	-.-
9/8/2022 8:38	-.-
9/8/2022 8:37	0.04
9/8/2022 8:38	-.-
9/8/2022 8:39	-.-
9/8/2022 8:38	0.04
9/8/2022 8:39	-.-
9/8/2022 8:40	-.-
9/8/2022 8:39	0.05
9/8/2022 8:40	-.-
9/8/2022 8:41	-.-
9/8/2022 8:40	0.04
9/8/2022 8:41	-.-
9/8/2022 8:42	-.-
9/8/2022 8:41	0.05
9/8/2022 8:42	-.-
9/8/2022 8:43	-.-
9/8/2022 8:42	0.05
9/8/2022 8:43	-.-
9/8/2022 8:44	-.-
9/8/2022 8:43	0.04
9/8/2022 8:44	-.-
9/8/2022 8:45	-.-
9/8/2022 8:44	0.08
9/8/2022 8:45	-.-
9/8/2022 8:46	-.-
9/8/2022 8:45	0.04
9/8/2022 8:46	-.-
9/8/2022 8:47	-.-
9/8/2022 8:46	0.04
9/8/2022 8:47	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 4:55	-.-
12/8/2022 4:55	0.04
12/8/2022 4:56	-.-
12/8/2022 4:56	-.-
12/8/2022 4:56	0.04
12/8/2022 4:57	-.-
12/8/2022 4:57	-.-
12/8/2022 4:57	0.04
12/8/2022 4:58	-.-
12/8/2022 4:58	-.-
12/8/2022 4:58	0.04
12/8/2022 4:59	-.-
12/8/2022 4:59	-.-
12/8/2022 4:59	0.04
12/8/2022 5:00	-.-
12/8/2022 5:00	-.-
12/8/2022 5:00	0.04
12/8/2022 5:01	-.-
12/8/2022 5:01	-.-
12/8/2022 5:01	0.05
12/8/2022 5:02	-.-
12/8/2022 5:02	-.-
12/8/2022 5:02	0.04
12/8/2022 5:03	-.-
12/8/2022 5:03	-.-
12/8/2022 5:03	0.04
12/8/2022 5:04	-.-
12/8/2022 5:04	-.-
12/8/2022 5:04	0.05
12/8/2022 5:05	-.-
12/8/2022 5:05	-.-
12/8/2022 5:05	0.05
12/8/2022 5:06	-.-
12/8/2022 5:06	-.-
12/8/2022 5:06	0.04
12/8/2022 5:07	-.-
12/8/2022 5:07	-.-
12/8/2022 5:07	0.05
12/8/2022 5:08	-.-
12/8/2022 5:08	-.-
12/8/2022 5:08	0.04
12/8/2022 5:09	-.-
12/8/2022 5:09	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 7:51	-.-
13/8/2022 7:50	0.05
13/8/2022 7:51	-.-
13/8/2022 7:52	-.-
13/8/2022 7:51	0.12
13/8/2022 7:52	-.-
13/8/2022 7:53	-.-
13/8/2022 7:52	0.17
13/8/2022 7:53	-.-
13/8/2022 7:54	-.-
13/8/2022 7:53	0.14
13/8/2022 7:54	-.-
13/8/2022 7:55	-.-
13/8/2022 7:54	0.18
13/8/2022 7:55	-.-
13/8/2022 7:56	-.-
13/8/2022 7:55	0.14
13/8/2022 7:56	-.-
13/8/2022 7:57	-.-
13/8/2022 7:56	0.09
13/8/2022 7:57	-.-
13/8/2022 7:58	-.-
13/8/2022 7:57	0.1
13/8/2022 7:58	-.-
13/8/2022 7:59	-.-
13/8/2022 7:58	0.13
13/8/2022 7:59	-.-
13/8/2022 8:00	-.-
13/8/2022 7:59	0.05
13/8/2022 8:00	-.-
13/8/2022 8:01	-.-
13/8/2022 8:00	0.06
13/8/2022 8:01	-.-
13/8/2022 8:02	-.-
13/8/2022 8:01	0.12
13/8/2022 8:02	-.-
13/8/2022 8:03	-.-
13/8/2022 8:02	0.09
13/8/2022 8:03	-.-
13/8/2022 8:04	-.-
13/8/2022 8:03	0.07
13/8/2022 8:04	-.-
13/8/2022 8:05	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 8:48	-.-
9/8/2022 8:47	0.04
9/8/2022 8:48	-.-
9/8/2022 8:49	-.-
9/8/2022 8:48	0.04
9/8/2022 8:49	-.-
9/8/2022 8:50	-.-
9/8/2022 8:49	0.04
9/8/2022 8:50	-.-
9/8/2022 8:51	-.-
9/8/2022 8:50	0.04
9/8/2022 8:51	-.-
9/8/2022 8:52	-.-
9/8/2022 8:51	0.07
9/8/2022 8:52	-.-
9/8/2022 8:53	-.-
9/8/2022 8:52	0.04
9/8/2022 8:53	-.-
9/8/2022 8:54	-.-
9/8/2022 8:53	0.04
9/8/2022 8:54	-.-
9/8/2022 8:55	-.-
9/8/2022 8:54	0.04
9/8/2022 8:55	-.-
9/8/2022 8:56	-.-
9/8/2022 8:55	0.05
9/8/2022 8:56	-.-
9/8/2022 8:57	-.-
9/8/2022 8:56	0.05
9/8/2022 8:57	-.-
9/8/2022 8:58	-.-
9/8/2022 8:57	0.05
9/8/2022 8:58	-.-
9/8/2022 8:59	-.-
9/8/2022 8:58	0.05
9/8/2022 8:59	-.-
9/8/2022 9:00	-.-
9/8/2022 8:59	0.05
9/8/2022 9:00	-.-
9/8/2022 9:01	-.-
9/8/2022 9:00	0.04
9/8/2022 9:01	-.-
9/8/2022 9:02	-.-

Vibration data Station V1 15-16 Aug 2022		Vibration data Station V2 11-12 Aug 2022		Vibration data Station V3 12-13 Aug 2022		Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)
		12/8/2022 5:09	0.04	13/8/2022 8:04	0.15	9/8/2022 9:01	0.05
		12/8/2022 5:10	-.-	13/8/2022 8:05	-.-	9/8/2022 9:02	-.-
		12/8/2022 5:10	-.-	13/8/2022 8:06	-.-	9/8/2022 9:03	-.-
		12/8/2022 5:10	0.04	13/8/2022 8:05	0.14	9/8/2022 9:02	0.06
		12/8/2022 5:11	-.-	13/8/2022 8:06	-.-	9/8/2022 9:03	-.-
		12/8/2022 5:11	-.-	13/8/2022 8:07	-.-	9/8/2022 9:04	-.-
		12/8/2022 5:11	0.04	13/8/2022 8:06	0.1	9/8/2022 9:03	0.04
		12/8/2022 5:12	-.-	13/8/2022 8:07	-.-	9/8/2022 9:04	-.-
		12/8/2022 5:12	-.-	13/8/2022 8:08	-.-	9/8/2022 9:05	-.-
		12/8/2022 5:12	0.04	13/8/2022 8:07	0.18	9/8/2022 9:04	0.04
		12/8/2022 5:13	-.-	13/8/2022 8:08	-.-	9/8/2022 9:05	-.-
		12/8/2022 5:13	-.-	13/8/2022 8:09	-.-	9/8/2022 9:06	-.-
		12/8/2022 5:13	0.05	13/8/2022 8:08	0.06	9/8/2022 9:05	0.05
		12/8/2022 5:14	-.-	13/8/2022 8:09	-.-	9/8/2022 9:06	-.-
		12/8/2022 5:14	-.-	13/8/2022 8:10	-.-	9/8/2022 9:07	-.-
		12/8/2022 5:14	0.05	13/8/2022 8:09	0.23	9/8/2022 9:06	0.05
		12/8/2022 5:15	-.-	13/8/2022 8:10	-.-	9/8/2022 9:07	-.-
		12/8/2022 5:15	-.-	13/8/2022 8:11	-.-	9/8/2022 9:08	-.-
		12/8/2022 5:15	0.04	13/8/2022 8:10	0.06	9/8/2022 9:07	0.04
		12/8/2022 5:16	-.-	13/8/2022 8:11	-.-	9/8/2022 9:08	-.-
		12/8/2022 5:16	-.-	13/8/2022 8:12	-.-	9/8/2022 9:09	-.-
		12/8/2022 5:16	0.04	13/8/2022 8:11	0.09	9/8/2022 9:08	0.04
		12/8/2022 5:17	-.-	13/8/2022 8:12	-.-	9/8/2022 9:09	-.-
		12/8/2022 5:17	-.-	13/8/2022 8:13	-.-	9/8/2022 9:10	-.-
		12/8/2022 5:17	0.04	13/8/2022 8:12	0.16	9/8/2022 9:09	0.05
		12/8/2022 5:18	-.-	13/8/2022 8:13	-.-	9/8/2022 9:10	-.-
		12/8/2022 5:18	-.-	13/8/2022 8:14	-.-	9/8/2022 9:11	-.-
		12/8/2022 5:18	0.05	13/8/2022 8:13	0.26	9/8/2022 9:10	0.05
		12/8/2022 5:19	-.-	13/8/2022 8:14	-.-	9/8/2022 9:11	-.-
		12/8/2022 5:19	-.-	13/8/2022 8:15	-.-	9/8/2022 9:12	-.-
		12/8/2022 5:19	0.04	13/8/2022 8:14	0.15	9/8/2022 9:11	0.04
		12/8/2022 5:20	-.-	13/8/2022 8:15	-.-	9/8/2022 9:12	-.-
		12/8/2022 5:20	-.-	13/8/2022 8:16	-.-	9/8/2022 9:13	-.-
		12/8/2022 5:20	0.04	13/8/2022 8:15	0.12	9/8/2022 9:12	0.04
		12/8/2022 5:21	-.-	13/8/2022 8:16	-.-	9/8/2022 9:13	-.-
		12/8/2022 5:21	-.-	13/8/2022 8:17	-.-	9/8/2022 9:14	-.-
		12/8/2022 5:21	0.04	13/8/2022 8:16	0.09	9/8/2022 9:13	0.04
		12/8/2022 5:22	-.-	13/8/2022 8:17	-.-	9/8/2022 9:14	-.-
		12/8/2022 5:22	-.-	13/8/2022 8:18	-.-	9/8/2022 9:15	-.-
		12/8/2022 5:22	0.04	13/8/2022 8:17	0.1	9/8/2022 9:14	0.05
		12/8/2022 5:23	-.-	13/8/2022 8:18	-.-	9/8/2022 9:15	-.-
		12/8/2022 5:23	-.-	13/8/2022 8:19	-.-	9/8/2022 9:16	-.-
		12/8/2022 5:23	0.05	13/8/2022 8:18	0.07	9/8/2022 9:15	0.04

Vibration data Station V1 15-16 Aug 2022		Vibration data Station V2 11-12 Aug 2022		Vibration data Station V3 12-13 Aug 2022		Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)
		12/8/2022 5:24	-.-	13/8/2022 8:19	-.-	9/8/2022 9:16	-.-
		12/8/2022 5:24	-.-	13/8/2022 8:20	-.-	9/8/2022 9:17	-.-
		12/8/2022 5:24	0.04	13/8/2022 8:19	0.29	9/8/2022 9:16	0.04
		12/8/2022 5:25	-.-	13/8/2022 8:20	-.-	9/8/2022 9:17	-.-
		12/8/2022 5:25	-.-	13/8/2022 8:21	-.-	9/8/2022 9:18	-.-
		12/8/2022 5:25	0.04	13/8/2022 8:20	0.07	9/8/2022 9:17	0.05
		12/8/2022 5:26	-.-	13/8/2022 8:21	-.-	9/8/2022 9:18	-.-
		12/8/2022 5:26	-.-	13/8/2022 8:22	-.-	9/8/2022 9:19	-.-
		12/8/2022 5:26	0.04	13/8/2022 8:21	0.05	9/8/2022 9:18	0.04
		12/8/2022 5:27	-.-	13/8/2022 8:22	-.-	9/8/2022 9:19	-.-
		12/8/2022 5:27	-.-	13/8/2022 8:23	-.-	9/8/2022 9:20	-.-
		12/8/2022 5:27	0.04	13/8/2022 8:22	0.12	9/8/2022 9:19	0.04
		12/8/2022 5:28	-.-	13/8/2022 8:23	-.-	9/8/2022 9:20	-.-
		12/8/2022 5:28	-.-	13/8/2022 8:24	-.-	9/8/2022 9:21	-.-
		12/8/2022 5:28	0.04	13/8/2022 8:23	0.17	9/8/2022 9:20	0.05
		12/8/2022 5:29	-.-	13/8/2022 8:24	-.-	9/8/2022 9:21	-.-
		12/8/2022 5:29	-.-	13/8/2022 8:25	-.-	9/8/2022 9:22	-.-
		12/8/2022 5:29	0.04	13/8/2022 8:24	0.42	9/8/2022 9:21	0.05
		12/8/2022 5:30	-.-	13/8/2022 8:25	-.-	9/8/2022 9:22	-.-
		12/8/2022 5:30	-.-	13/8/2022 8:26	-.-	9/8/2022 9:23	-.-
		12/8/2022 5:30	0.04	13/8/2022 8:25	0.12	9/8/2022 9:22	0.04
		12/8/2022 5:31	-.-	13/8/2022 8:26	-.-	9/8/2022 9:23	-.-
		12/8/2022 5:31	-.-	13/8/2022 8:27	-.-	9/8/2022 9:24	-.-
		12/8/2022 5:31	0.04	13/8/2022 8:26	0.12	9/8/2022 9:23	0.04
		12/8/2022 5:32	-.-	13/8/2022 8:27	-.-	9/8/2022 9:24	-.-
		12/8/2022 5:32	-.-	13/8/2022 8:28	-.-	9/8/2022 9:25	-.-
		12/8/2022 5:32	0.09	13/8/2022 8:27	0.05	9/8/2022 9:24	0.07
		12/8/2022 5:33	-.-	13/8/2022 8:28	-.-	9/8/2022 9:25	-.-
		12/8/2022 5:33	-.-	13/8/2022 8:29	-.-	9/8/2022 9:26	-.-
		12/8/2022 5:33	0.04	13/8/2022 8:28	0.09	9/8/2022 9:25	0.04
		12/8/2022 5:34	-.-	13/8/2022 8:29	-.-	9/8/2022 9:26	-.-
		12/8/2022 5:34	-.-	13/8/2022 8:30	-.-	9/8/2022 9:27	-.-
		12/8/2022 5:34	0.04	13/8/2022 8:29	0.15	9/8/2022 9:26	0.05
		12/8/2022 5:35	-.-	13/8/2022 8:30	-.-	9/8/2022 9:27	-.-
		12/8/2022 5:35	-.-	13/8/2022 8:31	-.-	9/8/2022 9:28	-.-
		12/8/2022 5:35	0.04	13/8/2022 8:30	0.14	9/8/2022 9:27	0.04
		12/8/2022 5:36	-.-	13/8/2022 8:31	-.-	9/8/2022 9:28	-.-
		12/8/2022 5:36	-.-	13/8/2022 8:32	-.-	9/8/2022 9:29	-.-
		12/8/2022 5:36	0.05	13/8/2022 8:31	0.24	9/8/2022 9:28	0.08
		12/8/2022 5:37	-.-	13/8/2022 8:32	-.-	9/8/2022 9:29	-.-
		12/8/2022 5:37	-.-	13/8/2022 8:33	-.-	9/8/2022 9:30	-.-
		12/8/2022 5:37	0.04	13/8/2022 8:32	0.3	9/8/2022 9:29	0.05
		12/8/2022 5:38	-.-	13/8/2022 8:33	-.-	9/8/2022 9:30	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 5:38	-.-
12/8/2022 5:38	0.04
12/8/2022 5:39	-.-
12/8/2022 5:39	-.-
12/8/2022 5:39	0.04
12/8/2022 5:40	-.-
12/8/2022 5:40	-.-
12/8/2022 5:40	0.04
12/8/2022 5:41	-.-
12/8/2022 5:41	-.-
12/8/2022 5:41	0.04
12/8/2022 5:42	-.-
12/8/2022 5:42	-.-
12/8/2022 5:42	0.04
12/8/2022 5:43	-.-
12/8/2022 5:43	-.-
12/8/2022 5:43	0.05
12/8/2022 5:44	-.-
12/8/2022 5:44	-.-
12/8/2022 5:44	0.05
12/8/2022 5:45	-.-
12/8/2022 5:45	-.-
12/8/2022 5:45	0.04
12/8/2022 5:46	-.-
12/8/2022 5:46	-.-
12/8/2022 5:46	0.04
12/8/2022 5:47	-.-
12/8/2022 5:47	-.-
12/8/2022 5:47	0.04
12/8/2022 5:48	-.-
12/8/2022 5:48	-.-
12/8/2022 5:48	0.04
12/8/2022 5:49	-.-
12/8/2022 5:49	-.-
12/8/2022 5:49	0.05
12/8/2022 5:50	-.-
12/8/2022 5:50	-.-
12/8/2022 5:50	0.04
12/8/2022 5:51	-.-
12/8/2022 5:51	-.-
12/8/2022 5:51	0.05
12/8/2022 5:52	-.-
12/8/2022 5:52	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 8:34	-.-
13/8/2022 8:33	0.08
13/8/2022 8:34	-.-
13/8/2022 8:35	-.-
13/8/2022 8:34	0.13
13/8/2022 8:35	-.-
13/8/2022 8:36	-.-
13/8/2022 8:35	0.1
13/8/2022 8:36	-.-
13/8/2022 8:37	-.-
13/8/2022 8:36	0.08
13/8/2022 8:37	-.-
13/8/2022 8:38	-.-
13/8/2022 8:37	0.06
13/8/2022 8:38	-.-
13/8/2022 8:39	-.-
13/8/2022 8:38	0.07
13/8/2022 8:39	-.-
13/8/2022 8:40	-.-
13/8/2022 8:39	0.2
13/8/2022 8:40	-.-
13/8/2022 8:41	-.-
13/8/2022 8:40	0.15
13/8/2022 8:41	-.-
13/8/2022 8:42	-.-
13/8/2022 8:41	0.31
13/8/2022 8:42	-.-
13/8/2022 8:43	-.-
13/8/2022 8:42	0.06
13/8/2022 8:43	-.-
13/8/2022 8:44	-.-
13/8/2022 8:43	0.07
13/8/2022 8:44	-.-
13/8/2022 8:45	-.-
13/8/2022 8:44	0.19
13/8/2022 8:45	-.-
13/8/2022 8:46	-.-
13/8/2022 8:45	0.28
13/8/2022 8:46	-.-
13/8/2022 8:47	-.-
13/8/2022 8:46	0.13
13/8/2022 8:47	-.-
13/8/2022 8:48	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 9:31	-.-
9/8/2022 9:30	0.05
9/8/2022 9:31	-.-
9/8/2022 9:32	-.-
9/8/2022 9:31	0.04
9/8/2022 9:32	-.-
9/8/2022 9:33	-.-
9/8/2022 9:32	0.05
9/8/2022 9:33	-.-
9/8/2022 9:34	-.-
9/8/2022 9:33	0.04
9/8/2022 9:34	-.-
9/8/2022 9:35	-.-
9/8/2022 9:34	0.04
9/8/2022 9:35	-.-
9/8/2022 9:36	-.-
9/8/2022 9:35	0.05
9/8/2022 9:36	-.-
9/8/2022 9:37	-.-
9/8/2022 9:36	0.04
9/8/2022 9:37	-.-
9/8/2022 9:38	-.-
9/8/2022 9:37	0.04
9/8/2022 9:38	-.-
9/8/2022 9:39	-.-
9/8/2022 9:38	0.05
9/8/2022 9:39	-.-
9/8/2022 9:40	-.-
9/8/2022 9:39	0.05
9/8/2022 9:40	-.-
9/8/2022 9:41	-.-
9/8/2022 9:40	0.04
9/8/2022 9:41	-.-
9/8/2022 9:42	-.-
9/8/2022 9:41	0.07
9/8/2022 9:42	-.-
9/8/2022 9:43	-.-
9/8/2022 9:42	0.04
9/8/2022 9:43	-.-
9/8/2022 9:44	-.-
9/8/2022 9:43	0.05
9/8/2022 9:44	-.-
9/8/2022 9:45	-.-

Vibration data Station V1 15-16 Aug 2022		Vibration data Station V2 11-12 Aug 2022		Vibration data Station V3 12-13 Aug 2022		Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)
		12/8/2022 5:52	0.05	13/8/2022 8:47	0.13	9/8/2022 9:44	0.04
		12/8/2022 5:53	-.-	13/8/2022 8:48	-.-	9/8/2022 9:45	-.-
		12/8/2022 5:53	-.-	13/8/2022 8:49	-.-	9/8/2022 9:46	-.-
		12/8/2022 5:53	0.05	13/8/2022 8:48	0.06	9/8/2022 9:45	0.04
		12/8/2022 5:54	-.-	13/8/2022 8:49	-.-	9/8/2022 9:46	-.-
		12/8/2022 5:54	-.-	13/8/2022 8:50	-.-	9/8/2022 9:47	-.-
		12/8/2022 5:54	0.04	13/8/2022 8:49	0.27	9/8/2022 9:46	0.04
		12/8/2022 5:55	-.-	13/8/2022 8:50	-.-	9/8/2022 9:47	-.-
		12/8/2022 5:55	-.-	13/8/2022 8:51	-.-	9/8/2022 9:48	-.-
		12/8/2022 5:55	0.04	13/8/2022 8:50	0.16	9/8/2022 9:47	0.05
		12/8/2022 5:56	-.-	13/8/2022 8:51	-.-	9/8/2022 9:48	-.-
		12/8/2022 5:56	-.-	13/8/2022 8:52	-.-	9/8/2022 9:49	-.-
		12/8/2022 5:56	0.04	13/8/2022 8:51	0.08	9/8/2022 9:48	0.04
		12/8/2022 5:57	-.-	13/8/2022 8:52	-.-	9/8/2022 9:49	-.-
		12/8/2022 5:57	-.-	13/8/2022 8:53	-.-	9/8/2022 9:50	-.-
		12/8/2022 5:57	0.04	13/8/2022 8:52	0.32	9/8/2022 9:49	0.04
		12/8/2022 5:58	-.-	13/8/2022 8:53	-.-	9/8/2022 9:50	-.-
		12/8/2022 5:58	-.-	13/8/2022 8:54	-.-	9/8/2022 9:51	-.-
		12/8/2022 5:58	0.05	13/8/2022 8:53	0.06	9/8/2022 9:50	0.07
		12/8/2022 5:59	-.-	13/8/2022 8:54	-.-	9/8/2022 9:51	-.-
		12/8/2022 5:59	-.-	13/8/2022 8:55	-.-	9/8/2022 9:52	-.-
		12/8/2022 5:59	0.04	13/8/2022 8:54	0.16	9/8/2022 9:51	0.04
		12/8/2022 6:00	-.-	13/8/2022 8:55	-.-	9/8/2022 9:52	-.-
		12/8/2022 6:00	-.-	13/8/2022 8:56	-.-	9/8/2022 9:53	-.-
		12/8/2022 6:00	0.04	13/8/2022 8:55	0.14	9/8/2022 9:52	0.05
		12/8/2022 6:01	-.-	13/8/2022 8:56	-.-	9/8/2022 9:53	-.-
		12/8/2022 6:01	-.-	13/8/2022 8:57	-.-	9/8/2022 9:54	-.-
		12/8/2022 6:01	0.04	13/8/2022 8:56	0.15	9/8/2022 9:53	0.05
		12/8/2022 6:02	-.-	13/8/2022 8:57	-.-	9/8/2022 9:54	-.-
		12/8/2022 6:02	-.-	13/8/2022 8:58	-.-	9/8/2022 9:55	-.-
		12/8/2022 6:02	0.04	13/8/2022 8:57	0.17	9/8/2022 9:54	0.05
		12/8/2022 6:03	-.-	13/8/2022 8:58	-.-	9/8/2022 9:55	-.-
		12/8/2022 6:03	-.-	13/8/2022 8:59	-.-	9/8/2022 9:56	-.-
		12/8/2022 6:03	0.05	13/8/2022 8:58	0.13	9/8/2022 9:55	0.05
		12/8/2022 6:04	-.-	13/8/2022 8:59	-.-	9/8/2022 9:56	-.-
		12/8/2022 6:04	-.-	13/8/2022 9:00	-.-	9/8/2022 9:57	-.-
		12/8/2022 6:04	0.04	13/8/2022 8:59	0.05	9/8/2022 9:56	0.04
		12/8/2022 6:05	-.-	13/8/2022 9:00	-.-	9/8/2022 9:57	-.-
		12/8/2022 6:05	-.-	13/8/2022 9:01	-.-	9/8/2022 9:58	-.-
		12/8/2022 6:05	0.05	13/8/2022 9:00	0.15	9/8/2022 9:57	0.04
		12/8/2022 6:06	-.-	13/8/2022 9:01	-.-	9/8/2022 9:58	-.-
		12/8/2022 6:06	-.-	13/8/2022 9:02	-.-	9/8/2022 9:59	-.-
		12/8/2022 6:06	0.04	13/8/2022 9:01	0.07	9/8/2022 9:58	0.05

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 6:07	-.-
12/8/2022 6:07	-.-
12/8/2022 6:07	0.04
12/8/2022 6:08	-.-
12/8/2022 6:08	-.-
12/8/2022 6:08	0.04
12/8/2022 6:09	-.-
12/8/2022 6:09	-.-
12/8/2022 6:09	0.04
12/8/2022 6:10	-.-
12/8/2022 6:10	-.-
12/8/2022 6:10	0.04
12/8/2022 6:11	-.-
12/8/2022 6:11	-.-
12/8/2022 6:11	0.04
12/8/2022 6:12	-.-
12/8/2022 6:12	-.-
12/8/2022 6:12	0.04
12/8/2022 6:13	-.-
12/8/2022 6:13	-.-
12/8/2022 6:13	0.05
12/8/2022 6:14	-.-
12/8/2022 6:14	-.-
12/8/2022 6:14	0.04
12/8/2022 6:15	-.-
12/8/2022 6:15	-.-
12/8/2022 6:15	0.04
12/8/2022 6:16	-.-
12/8/2022 6:16	-.-
12/8/2022 6:16	0.05
12/8/2022 6:17	-.-
12/8/2022 6:17	-.-
12/8/2022 6:17	0.04
12/8/2022 6:18	-.-
12/8/2022 6:18	-.-
12/8/2022 6:18	0.04
12/8/2022 6:19	-.-
12/8/2022 6:19	-.-
12/8/2022 6:19	0.04
12/8/2022 6:20	-.-
12/8/2022 6:20	-.-
12/8/2022 6:20	0.04
12/8/2022 6:21	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 9:02	-.-
13/8/2022 9:03	-.-
13/8/2022 9:02	0.25
13/8/2022 9:03	-.-
13/8/2022 9:04	-.-
13/8/2022 9:03	0.1
13/8/2022 9:04	-.-
13/8/2022 9:05	-.-
13/8/2022 9:04	0.24
13/8/2022 9:05	-.-
13/8/2022 9:06	-.-
13/8/2022 9:05	0.12
13/8/2022 9:06	-.-
13/8/2022 9:07	-.-
13/8/2022 9:06	0.06
13/8/2022 9:07	-.-
13/8/2022 9:08	-.-
13/8/2022 9:07	0.17
13/8/2022 9:08	-.-
13/8/2022 9:09	-.-
13/8/2022 9:08	0.07
13/8/2022 9:09	-.-
13/8/2022 9:10	-.-
13/8/2022 9:09	0.2
13/8/2022 9:10	-.-
13/8/2022 9:11	-.-
13/8/2022 9:10	0.22
13/8/2022 9:11	-.-
13/8/2022 9:12	-.-
13/8/2022 9:11	0.14
13/8/2022 9:12	-.-
13/8/2022 9:13	-.-
13/8/2022 9:12	0.12
13/8/2022 9:13	-.-
13/8/2022 9:14	-.-
13/8/2022 9:13	0.17
13/8/2022 9:14	-.-
13/8/2022 9:15	-.-
13/8/2022 9:14	0.07
13/8/2022 9:15	-.-
13/8/2022 9:16	-.-
13/8/2022 9:15	0.19
13/8/2022 9:16	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 9:59	-.-
9/8/2022 10:00	-.-
9/8/2022 9:59	0.05
9/8/2022 10:00	-.-
9/8/2022 10:01	-.-
9/8/2022 10:00	0.05
9/8/2022 10:01	-.-
9/8/2022 10:02	-.-
9/8/2022 10:01	0.05
9/8/2022 10:02	-.-
9/8/2022 10:03	-.-
9/8/2022 10:02	0.09
9/8/2022 10:03	-.-
9/8/2022 10:04	-.-
9/8/2022 10:03	0.05
9/8/2022 10:04	-.-
9/8/2022 10:05	-.-
9/8/2022 10:04	0.04
9/8/2022 10:05	-.-
9/8/2022 10:06	-.-
9/8/2022 10:05	0.05
9/8/2022 10:06	-.-
9/8/2022 10:07	-.-
9/8/2022 10:06	0.05
9/8/2022 10:07	-.-
9/8/2022 10:08	-.-
9/8/2022 10:07	0.04
9/8/2022 10:08	-.-
9/8/2022 10:09	-.-
9/8/2022 10:08	0.05
9/8/2022 10:09	-.-
9/8/2022 10:10	-.-
9/8/2022 10:09	0.04
9/8/2022 10:10	-.-
9/8/2022 10:11	-.-
9/8/2022 10:10	0.04
9/8/2022 10:11	-.-
9/8/2022 10:12	-.-
9/8/2022 10:11	0.04
9/8/2022 10:12	-.-
9/8/2022 10:13	-.-
9/8/2022 10:12	0.06
9/8/2022 10:13	-.-

Vibration data Station V1 15-16 Aug 2022		Vibration data Station V2 11-12 Aug 2022		Vibration data Station V3 12-13 Aug 2022		Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)
		12/8/2022 6:21	-.-	13/8/2022 9:17	-.-	9/8/2022 10:14	-.-
		12/8/2022 6:21	0.04	13/8/2022 9:16	0.21	9/8/2022 10:13	0.05
		12/8/2022 6:22	-.-	13/8/2022 9:17	-.-	9/8/2022 10:14	-.-
		12/8/2022 6:22	-.-	13/8/2022 9:18	-.-	9/8/2022 10:15	-.-
		12/8/2022 6:22	0.05	13/8/2022 9:17	0.07	9/8/2022 10:14	0.06
		12/8/2022 6:23	-.-	13/8/2022 9:18	-.-	9/8/2022 10:15	-.-
		12/8/2022 6:23	-.-	13/8/2022 9:19	-.-	9/8/2022 10:16	-.-
		12/8/2022 6:23	0.05	13/8/2022 9:18	0.25	9/8/2022 10:15	0.04
		12/8/2022 6:24	-.-	13/8/2022 9:19	-.-	9/8/2022 10:16	-.-
		12/8/2022 6:24	-.-	13/8/2022 9:20	-.-	9/8/2022 10:17	-.-
		12/8/2022 6:24	0.04	13/8/2022 9:19	0.06	9/8/2022 10:16	0.04
		12/8/2022 6:25	-.-	13/8/2022 9:20	-.-	9/8/2022 10:17	-.-
		12/8/2022 6:25	-.-	13/8/2022 9:21	-.-	9/8/2022 10:18	-.-
		12/8/2022 6:25	0.05	13/8/2022 9:20	0.06	9/8/2022 10:17	0.04
		12/8/2022 6:26	-.-	13/8/2022 9:21	-.-	9/8/2022 10:18	-.-
		12/8/2022 6:26	-.-	13/8/2022 9:22	-.-	9/8/2022 10:19	-.-
		12/8/2022 6:26	0.05	13/8/2022 9:21	0.07	9/8/2022 10:18	0.05
		12/8/2022 6:27	-.-	13/8/2022 9:22	-.-	9/8/2022 10:19	-.-
		12/8/2022 6:27	-.-	13/8/2022 9:23	-.-	9/8/2022 10:20	-.-
		12/8/2022 6:27	0.05	13/8/2022 9:22	0.14	9/8/2022 10:19	0.05
		12/8/2022 6:28	-.-	13/8/2022 9:23	-.-	9/8/2022 10:20	-.-
		12/8/2022 6:28	-.-	13/8/2022 9:24	-.-	9/8/2022 10:21	-.-
		12/8/2022 6:28	0.04	13/8/2022 9:23	0.17	9/8/2022 10:20	0.05
		12/8/2022 6:29	-.-	13/8/2022 9:24	-.-	9/8/2022 10:21	-.-
		12/8/2022 6:29	-.-	13/8/2022 9:25	-.-	9/8/2022 10:22	-.-
		12/8/2022 6:29	0.04	13/8/2022 9:24	0.37	9/8/2022 10:21	0.05
		12/8/2022 6:30	-.-	13/8/2022 9:25	-.-	9/8/2022 10:22	-.-
		12/8/2022 6:30	-.-	13/8/2022 9:26	-.-	9/8/2022 10:23	-.-
		12/8/2022 6:30	0.04	13/8/2022 9:25	0.34	9/8/2022 10:22	0.05
		12/8/2022 6:31	-.-	13/8/2022 9:26	-.-	9/8/2022 10:23	-.-
		12/8/2022 6:31	-.-	13/8/2022 9:27	-.-	9/8/2022 10:24	-.-
		12/8/2022 6:31	0.04	13/8/2022 9:26	0.19	9/8/2022 10:23	0.05
		12/8/2022 6:32	-.-	13/8/2022 9:27	-.-	9/8/2022 10:24	-.-
		12/8/2022 6:32	-.-	13/8/2022 9:28	-.-	9/8/2022 10:25	-.-
		12/8/2022 6:32	0.05	13/8/2022 9:27	0.13	9/8/2022 10:24	0.06
		12/8/2022 6:33	-.-	13/8/2022 9:28	-.-	9/8/2022 10:25	-.-
		12/8/2022 6:33	-.-	13/8/2022 9:29	-.-	9/8/2022 10:26	-.-
		12/8/2022 6:33	0.04	13/8/2022 9:28	0.16	9/8/2022 10:25	0.05
		12/8/2022 6:34	-.-	13/8/2022 9:29	-.-	9/8/2022 10:26	-.-
		12/8/2022 6:34	-.-	13/8/2022 9:30	-.-	9/8/2022 10:27	-.-
		12/8/2022 6:34	0.04	13/8/2022 9:29	0.08	9/8/2022 10:26	0.04
		12/8/2022 6:35	-.-	13/8/2022 9:30	-.-	9/8/2022 10:27	-.-
		12/8/2022 6:35	-.-	13/8/2022 9:31	-.-	9/8/2022 10:28	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 6:35	0.04
12/8/2022 6:36	-.-
12/8/2022 6:36	-.-
12/8/2022 6:36	0.04
12/8/2022 6:37	-.-
12/8/2022 6:37	-.-
12/8/2022 6:37	0.05
12/8/2022 6:38	-.-
12/8/2022 6:38	-.-
12/8/2022 6:38	0.05
12/8/2022 6:39	-.-
12/8/2022 6:39	-.-
12/8/2022 6:39	0.05
12/8/2022 6:40	-.-
12/8/2022 6:40	-.-
12/8/2022 6:40	0.05
12/8/2022 6:41	-.-
12/8/2022 6:41	-.-
12/8/2022 6:41	0.05
12/8/2022 6:42	-.-
12/8/2022 6:42	-.-
12/8/2022 6:42	0.05
12/8/2022 6:43	-.-
12/8/2022 6:43	-.-
12/8/2022 6:43	0.05
12/8/2022 6:44	-.-
12/8/2022 6:44	-.-
12/8/2022 6:44	0.05
12/8/2022 6:45	-.-
12/8/2022 6:45	-.-
12/8/2022 6:45	0.05
12/8/2022 6:46	-.-
12/8/2022 6:46	-.-
12/8/2022 6:46	0.05
12/8/2022 6:47	-.-
12/8/2022 6:47	-.-
12/8/2022 6:47	0.07
12/8/2022 6:48	-.-
12/8/2022 6:48	-.-
12/8/2022 6:48	0.06
12/8/2022 6:49	-.-
12/8/2022 6:49	-.-
12/8/2022 6:49	0.05

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 9:30	0.06
13/8/2022 9:31	-.-
13/8/2022 9:32	-.-
13/8/2022 9:31	0.21
13/8/2022 9:32	-.-
13/8/2022 9:33	-.-
13/8/2022 9:32	0.37
13/8/2022 9:33	-.-
13/8/2022 9:34	-.-
13/8/2022 9:33	0.23
13/8/2022 9:34	-.-
13/8/2022 9:35	-.-
13/8/2022 9:34	0.08
13/8/2022 9:35	-.-
13/8/2022 9:36	-.-
13/8/2022 9:35	0.07
13/8/2022 9:36	-.-
13/8/2022 9:37	-.-
13/8/2022 9:36	0.21
13/8/2022 9:37	-.-
13/8/2022 9:38	-.-
13/8/2022 9:37	0.23
13/8/2022 9:38	-.-
13/8/2022 9:39	-.-
13/8/2022 9:38	0.36
13/8/2022 9:39	-.-
13/8/2022 9:40	-.-
13/8/2022 9:39	0.17
13/8/2022 9:40	-.-
13/8/2022 9:41	-.-
13/8/2022 9:40	0.08
13/8/2022 9:41	-.-
13/8/2022 9:42	-.-
13/8/2022 9:41	0.18
13/8/2022 9:42	-.-
13/8/2022 9:43	-.-
13/8/2022 9:42	0.06
13/8/2022 9:43	-.-
13/8/2022 9:44	-.-
13/8/2022 9:43	0.11
13/8/2022 9:44	-.-
13/8/2022 9:45	-.-
13/8/2022 9:44	0.27

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 10:27	0.05
9/8/2022 10:28	-.-
9/8/2022 10:29	-.-
9/8/2022 10:28	0.1
9/8/2022 10:29	-.-
9/8/2022 10:30	-.-
9/8/2022 10:29	0.05
9/8/2022 10:30	-.-
9/8/2022 10:31	-.-
9/8/2022 10:30	0.05
9/8/2022 10:31	-.-
9/8/2022 10:32	-.-
9/8/2022 10:31	0.05
9/8/2022 10:32	-.-
9/8/2022 10:33	-.-
9/8/2022 10:32	0.05
9/8/2022 10:33	-.-
9/8/2022 10:34	-.-
9/8/2022 10:33	0.05
9/8/2022 10:34	-.-
9/8/2022 10:35	-.-
9/8/2022 10:34	0.05
9/8/2022 10:35	-.-
9/8/2022 10:36	-.-
9/8/2022 10:35	0.05
9/8/2022 10:36	-.-
9/8/2022 10:37	-.-
9/8/2022 10:36	0.06
9/8/2022 10:37	-.-
9/8/2022 10:38	-.-
9/8/2022 10:37	0.05
9/8/2022 10:38	-.-
9/8/2022 10:39	-.-
9/8/2022 10:38	0.05
9/8/2022 10:39	-.-
9/8/2022 10:40	-.-
9/8/2022 10:39	0.04
9/8/2022 10:40	-.-
9/8/2022 10:41	-.-
9/8/2022 10:40	0.05
9/8/2022 10:41	-.-
9/8/2022 10:42	-.-
9/8/2022 10:41	0.04

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 6:50	-.-
12/8/2022 6:50	-.-
12/8/2022 6:50	0.05
12/8/2022 6:51	-.-
12/8/2022 6:51	-.-
12/8/2022 6:51	0.04
12/8/2022 6:52	-.-
12/8/2022 6:52	-.-
12/8/2022 6:52	0.05
12/8/2022 6:53	-.-
12/8/2022 6:53	-.-
12/8/2022 6:53	0.05
12/8/2022 6:54	-.-
12/8/2022 6:54	-.-
12/8/2022 6:54	0.06
12/8/2022 6:55	-.-
12/8/2022 6:55	-.-
12/8/2022 6:55	0.06
12/8/2022 6:56	-.-
12/8/2022 6:56	-.-
12/8/2022 6:56	0.05
12/8/2022 6:57	-.-
12/8/2022 6:57	-.-
12/8/2022 6:57	0.05
12/8/2022 6:58	-.-
12/8/2022 6:58	-.-
12/8/2022 6:58	0.05
12/8/2022 6:59	-.-
12/8/2022 6:59	-.-
12/8/2022 6:59	0.05
12/8/2022 7:00	-.-
12/8/2022 7:00	-.-
12/8/2022 7:00	0.05
12/8/2022 7:01	-.-
12/8/2022 7:01	-.-
12/8/2022 7:01	0.05
12/8/2022 7:02	-.-
12/8/2022 7:02	-.-
12/8/2022 7:02	0.05
12/8/2022 7:03	-.-
12/8/2022 7:03	-.-
12/8/2022 7:03	0.05
12/8/2022 7:04	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 9:45	-.-
13/8/2022 9:46	-.-
13/8/2022 9:45	0.1
13/8/2022 9:46	-.-
13/8/2022 9:47	-.-
13/8/2022 9:46	0.15
13/8/2022 9:47	-.-
13/8/2022 9:48	-.-
13/8/2022 9:47	0.21
13/8/2022 9:48	-.-
13/8/2022 9:49	-.-
13/8/2022 9:48	0.18
13/8/2022 9:49	-.-
13/8/2022 9:50	-.-
13/8/2022 9:49	0.15
13/8/2022 9:50	-.-
13/8/2022 9:51	-.-
13/8/2022 9:50	0.16
13/8/2022 9:51	-.-
13/8/2022 9:52	-.-
13/8/2022 9:51	0.14
13/8/2022 9:52	-.-
13/8/2022 9:53	-.-
13/8/2022 9:52	0.21
13/8/2022 9:53	-.-
13/8/2022 9:54	-.-
13/8/2022 9:53	0.09
13/8/2022 9:54	-.-
13/8/2022 9:55	-.-
13/8/2022 9:54	0.51
13/8/2022 9:55	-.-
13/8/2022 9:56	-.-
13/8/2022 9:55	0.2
13/8/2022 9:56	-.-
13/8/2022 9:57	-.-
13/8/2022 9:56	0.1
13/8/2022 9:57	-.-
13/8/2022 9:58	-.-
13/8/2022 9:57	0.19
13/8/2022 9:58	-.-
13/8/2022 9:59	-.-
13/8/2022 9:58	0.16
13/8/2022 9:59	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 10:42	-.-
9/8/2022 10:43	-.-
9/8/2022 10:42	0.04
9/8/2022 10:43	-.-
9/8/2022 10:44	-.-
9/8/2022 10:43	0.05
9/8/2022 10:44	-.-
9/8/2022 10:45	-.-
9/8/2022 10:44	0.05
9/8/2022 10:45	-.-
9/8/2022 10:46	-.-
9/8/2022 10:45	0.06
9/8/2022 10:46	-.-
9/8/2022 10:47	-.-
9/8/2022 10:46	0.06
9/8/2022 10:47	-.-
9/8/2022 10:48	-.-
9/8/2022 10:47	0.04
9/8/2022 10:48	-.-
9/8/2022 10:49	-.-
9/8/2022 10:48	0.08
9/8/2022 10:49	-.-
9/8/2022 10:50	-.-
9/8/2022 10:49	0.05
9/8/2022 10:50	-.-
9/8/2022 10:51	-.-
9/8/2022 10:50	0.05
9/8/2022 10:51	-.-
9/8/2022 10:52	-.-
9/8/2022 10:51	0.05
9/8/2022 10:52	-.-
9/8/2022 10:53	-.-
9/8/2022 10:52	0.04
9/8/2022 10:53	-.-
9/8/2022 10:54	-.-
9/8/2022 10:53	0.05
9/8/2022 10:54	-.-
9/8/2022 10:55	-.-
9/8/2022 10:54	0.06
9/8/2022 10:55	-.-
9/8/2022 10:56	-.-
9/8/2022 10:55	0.05
9/8/2022 10:56	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 7:04	-.-
12/8/2022 7:04	0.05
12/8/2022 7:05	-.-
12/8/2022 7:05	-.-
12/8/2022 7:05	0.05
12/8/2022 7:06	-.-
12/8/2022 7:06	-.-
12/8/2022 7:06	0.06
12/8/2022 7:07	-.-
12/8/2022 7:07	-.-
12/8/2022 7:07	0.06
12/8/2022 7:08	-.-
12/8/2022 7:08	-.-
12/8/2022 7:08	0.05
12/8/2022 7:09	-.-
12/8/2022 7:09	-.-
12/8/2022 7:09	0.05
12/8/2022 7:10	-.-
12/8/2022 7:10	-.-
12/8/2022 7:10	0.05
12/8/2022 7:11	-.-
12/8/2022 7:11	-.-
12/8/2022 7:11	0.04
12/8/2022 7:12	-.-
12/8/2022 7:12	-.-
12/8/2022 7:12	0.04
12/8/2022 7:13	-.-
12/8/2022 7:13	-.-
12/8/2022 7:13	0.04
12/8/2022 7:14	-.-
12/8/2022 7:14	-.-
12/8/2022 7:14	0.05
12/8/2022 7:15	-.-
12/8/2022 7:15	-.-
12/8/2022 7:15	0.04
12/8/2022 7:16	-.-
12/8/2022 7:16	-.-
12/8/2022 7:16	0.04
12/8/2022 7:17	-.-
12/8/2022 7:17	-.-
12/8/2022 7:17	0.04
12/8/2022 7:18	-.-
12/8/2022 7:18	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 10:00	-.-
13/8/2022 9:59	0.06
13/8/2022 10:00	-.-
13/8/2022 10:01	-.-
13/8/2022 10:00	0.16
13/8/2022 10:01	-.-
13/8/2022 10:02	-.-
13/8/2022 10:01	0.16
13/8/2022 10:02	-.-
13/8/2022 10:03	-.-
13/8/2022 10:02	0.14
13/8/2022 10:03	-.-
13/8/2022 10:04	-.-
13/8/2022 10:03	0.06
13/8/2022 10:04	-.-
13/8/2022 10:05	-.-
13/8/2022 10:04	0.12
13/8/2022 10:05	-.-
13/8/2022 10:06	-.-
13/8/2022 10:05	0.23
13/8/2022 10:06	-.-
13/8/2022 10:07	-.-
13/8/2022 10:06	0.08
13/8/2022 10:07	-.-
13/8/2022 10:08	-.-
13/8/2022 10:07	0.15
13/8/2022 10:08	-.-
13/8/2022 10:09	-.-
13/8/2022 10:08	0.17
13/8/2022 10:09	-.-
13/8/2022 10:10	-.-
13/8/2022 10:09	0.15
13/8/2022 10:10	-.-
13/8/2022 10:11	-.-
13/8/2022 10:10	0.06
13/8/2022 10:11	-.-
13/8/2022 10:12	-.-
13/8/2022 10:11	0.18
13/8/2022 10:12	-.-
13/8/2022 10:13	-.-
13/8/2022 10:12	0.11
13/8/2022 10:13	-.-
13/8/2022 10:14	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 10:57	-.-
9/8/2022 10:56	0.05
9/8/2022 10:57	-.-
9/8/2022 10:58	-.-
9/8/2022 10:57	0.05
9/8/2022 10:58	-.-
9/8/2022 10:59	-.-
9/8/2022 10:58	0.04
9/8/2022 10:59	-.-
9/8/2022 11:00	-.-
9/8/2022 10:59	0.05
9/8/2022 11:00	-.-
9/8/2022 11:01	-.-
9/8/2022 11:00	0.04
9/8/2022 11:01	-.-
9/8/2022 11:02	-.-
9/8/2022 11:01	0.06
9/8/2022 11:02	-.-
9/8/2022 11:03	-.-
9/8/2022 11:02	0.05
9/8/2022 11:03	-.-
9/8/2022 11:04	-.-
9/8/2022 11:03	0.05
9/8/2022 11:04	-.-
9/8/2022 11:05	-.-
9/8/2022 11:04	0.05
9/8/2022 11:05	-.-
9/8/2022 11:06	-.-
9/8/2022 11:05	0.05
9/8/2022 11:06	-.-
9/8/2022 11:07	-.-
9/8/2022 11:06	0.05
9/8/2022 11:07	-.-
9/8/2022 11:08	-.-
9/8/2022 11:07	0.06
9/8/2022 11:08	-.-
9/8/2022 11:09	-.-
9/8/2022 11:08	0.05
9/8/2022 11:09	-.-
9/8/2022 11:10	-.-
9/8/2022 11:09	0.05
9/8/2022 11:10	-.-
9/8/2022 11:11	-.-

Vibration data Station V1 15-16 Aug 2022		Vibration data Station V2 11-12 Aug 2022		Vibration data Station V3 12-13 Aug 2022		Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)
		12/8/2022 7:18	0.05	13/8/2022 10:13	0.06	9/8/2022 11:10	0.05
		12/8/2022 7:19	-.-	13/8/2022 10:14	-.-	9/8/2022 11:11	-.-
		12/8/2022 7:19	-.-	13/8/2022 10:15	-.-	9/8/2022 11:12	-.-
		12/8/2022 7:19	0.05	13/8/2022 10:14	0.05	9/8/2022 11:11	0.05
		12/8/2022 7:20	-.-	13/8/2022 10:15	-.-	9/8/2022 11:12	-.-
		12/8/2022 7:20	-.-	13/8/2022 10:16	-.-	9/8/2022 11:13	-.-
		12/8/2022 7:20	0.04	13/8/2022 10:15	0.17	9/8/2022 11:12	0.05
		12/8/2022 7:21	-.-	13/8/2022 10:16	-.-	9/8/2022 11:13	-.-
		12/8/2022 7:21	-.-	13/8/2022 10:17	-.-	9/8/2022 11:14	-.-
		12/8/2022 7:21	0.05	13/8/2022 10:16	0.16	9/8/2022 11:13	0.05
		12/8/2022 7:22	-.-	13/8/2022 10:17	-.-	9/8/2022 11:14	-.-
		12/8/2022 7:22	-.-	13/8/2022 10:18	-.-	9/8/2022 11:15	-.-
		12/8/2022 7:22	0.05	13/8/2022 10:17	0.12	9/8/2022 11:14	0.05
		12/8/2022 7:23	-.-	13/8/2022 10:18	-.-	9/8/2022 11:15	-.-
		12/8/2022 7:23	-.-	13/8/2022 10:19	-.-	9/8/2022 11:16	-.-
		12/8/2022 7:23	0.04	13/8/2022 10:18	0.24	9/8/2022 11:15	0.06
		12/8/2022 7:24	-.-	13/8/2022 10:19	-.-	9/8/2022 11:16	-.-
		12/8/2022 7:24	-.-	13/8/2022 10:20	-.-	9/8/2022 11:17	-.-
		12/8/2022 7:24	0.05	13/8/2022 10:19	0.21	9/8/2022 11:16	0.05
		12/8/2022 7:25	-.-	13/8/2022 10:20	-.-	9/8/2022 11:17	-.-
		12/8/2022 7:25	-.-	13/8/2022 10:21	-.-	9/8/2022 11:18	-.-
		12/8/2022 7:25	0.05	13/8/2022 10:20	0.12	9/8/2022 11:17	0.05
		12/8/2022 7:26	-.-	13/8/2022 10:21	-.-	9/8/2022 11:18	-.-
		12/8/2022 7:26	-.-	13/8/2022 10:22	-.-	9/8/2022 11:19	-.-
		12/8/2022 7:26	0.04	13/8/2022 10:21	0.21	9/8/2022 11:18	0.05
		12/8/2022 7:27	-.-	13/8/2022 10:22	-.-	9/8/2022 11:19	-.-
		12/8/2022 7:27	-.-	13/8/2022 10:23	-.-	9/8/2022 11:20	-.-
		12/8/2022 7:27	0.05	13/8/2022 10:22	0.14	9/8/2022 11:19	0.05
		12/8/2022 7:28	-.-	13/8/2022 10:23	-.-	9/8/2022 11:20	-.-
		12/8/2022 7:28	-.-	13/8/2022 10:24	-.-	9/8/2022 11:21	-.-
		12/8/2022 7:28	0.05	13/8/2022 10:23	0.06	9/8/2022 11:20	0.06
		12/8/2022 7:29	-.-	13/8/2022 10:24	-.-	9/8/2022 11:21	-.-
		12/8/2022 7:29	-.-	13/8/2022 10:25	-.-	9/8/2022 11:22	-.-
		12/8/2022 7:29	0.05	13/8/2022 10:24	0.25	9/8/2022 11:21	0.05
		12/8/2022 7:30	-.-	13/8/2022 10:25	-.-	9/8/2022 11:22	-.-
		12/8/2022 7:30	-.-	13/8/2022 10:26	-.-	9/8/2022 11:23	-.-
		12/8/2022 7:30	0.04	13/8/2022 10:25	0.06	9/8/2022 11:22	0.06
		12/8/2022 7:31	-.-	13/8/2022 10:26	-.-	9/8/2022 11:23	-.-
		12/8/2022 7:31	-.-	13/8/2022 10:27	-.-	9/8/2022 11:24	-.-
		12/8/2022 7:31	0.04	13/8/2022 10:26	0.09	9/8/2022 11:23	0.05
		12/8/2022 7:32	-.-	13/8/2022 10:27	-.-	9/8/2022 11:24	-.-
		12/8/2022 7:32	-.-	13/8/2022 10:28	-.-	9/8/2022 11:25	-.-
		12/8/2022 7:32	0.05	13/8/2022 10:27	0.22	9/8/2022 11:24	0.07

Vibration data Station V1 15-16 Aug 2022		Vibration data Station V2 11-12 Aug 2022		Vibration data Station V3 12-13 Aug 2022		Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)
		12/8/2022 7:33	-.-	13/8/2022 10:28	-.-	9/8/2022 11:25	-.-
		12/8/2022 7:33	-.-	13/8/2022 10:29	-.-	9/8/2022 11:26	-.-
		12/8/2022 7:33	0.05	13/8/2022 10:28	0.21	9/8/2022 11:25	0.06
		12/8/2022 7:34	-.-	13/8/2022 10:29	-.-	9/8/2022 11:26	-.-
		12/8/2022 7:34	-.-	13/8/2022 10:30	-.-	9/8/2022 11:27	-.-
		12/8/2022 7:34	0.05	13/8/2022 10:29	0.06	9/8/2022 11:26	0.05
		12/8/2022 7:35	-.-	13/8/2022 10:30	-.-	9/8/2022 11:27	-.-
		12/8/2022 7:35	-.-	13/8/2022 10:31	-.-	9/8/2022 11:28	-.-
		12/8/2022 7:35	0.04	13/8/2022 10:30	0.23	9/8/2022 11:27	0.04
		12/8/2022 7:36	-.-	13/8/2022 10:31	-.-	9/8/2022 11:28	-.-
		12/8/2022 7:36	-.-	13/8/2022 10:32	-.-	9/8/2022 11:29	-.-
		12/8/2022 7:36	0.05	13/8/2022 10:31	0.26	9/8/2022 11:28	0.04
		12/8/2022 7:37	-.-	13/8/2022 10:32	-.-	9/8/2022 11:29	-.-
		12/8/2022 7:37	-.-	13/8/2022 10:33	-.-	9/8/2022 11:30	-.-
		12/8/2022 7:37	0.07	13/8/2022 10:32	0.06	9/8/2022 11:29	0.05
		12/8/2022 7:38	-.-	13/8/2022 10:33	-.-	9/8/2022 11:30	-.-
		12/8/2022 7:38	-.-	13/8/2022 10:34	-.-	9/8/2022 11:31	-.-
		12/8/2022 7:38	0.04	13/8/2022 10:33	0.07	9/8/2022 11:30	0.04
		12/8/2022 7:39	-.-	13/8/2022 10:34	-.-	9/8/2022 11:31	-.-
		12/8/2022 7:39	-.-	13/8/2022 10:35	-.-	9/8/2022 11:32	-.-
		12/8/2022 7:39	0.05	13/8/2022 10:34	0.15	9/8/2022 11:31	0.05
		12/8/2022 7:40	-.-	13/8/2022 10:35	-.-	9/8/2022 11:32	-.-
		12/8/2022 7:40	-.-	13/8/2022 10:36	-.-	9/8/2022 11:33	-.-
		12/8/2022 7:40	0.05	13/8/2022 10:35	0.28	9/8/2022 11:32	0.05
		12/8/2022 7:41	-.-	13/8/2022 10:36	-.-	9/8/2022 11:33	-.-
		12/8/2022 7:41	-.-	13/8/2022 10:37	-.-	9/8/2022 11:34	-.-
		12/8/2022 7:41	0.04	13/8/2022 10:36	0.22	9/8/2022 11:33	0.05
		12/8/2022 7:42	-.-	13/8/2022 10:37	-.-	9/8/2022 11:34	-.-
		12/8/2022 7:42	-.-	13/8/2022 10:38	-.-	9/8/2022 11:35	-.-
		12/8/2022 7:42	0.04	13/8/2022 10:37	0.09	9/8/2022 11:34	0.05
		12/8/2022 7:43	-.-	13/8/2022 10:38	-.-	9/8/2022 11:35	-.-
		12/8/2022 7:43	-.-	13/8/2022 10:39	-.-	9/8/2022 11:36	-.-
		12/8/2022 7:43	0.04	13/8/2022 10:38	0.19	9/8/2022 11:35	0.05
		12/8/2022 7:44	-.-	13/8/2022 10:39	-.-	9/8/2022 11:36	-.-
		12/8/2022 7:44	-.-	13/8/2022 10:40	-.-	9/8/2022 11:37	-.-
		12/8/2022 7:44	0.04	13/8/2022 10:39	0.11	9/8/2022 11:36	0.04
		12/8/2022 7:45	-.-	13/8/2022 10:40	-.-	9/8/2022 11:37	-.-
		12/8/2022 7:45	-.-	13/8/2022 10:41	-.-	9/8/2022 11:38	-.-
		12/8/2022 7:45	0.06	13/8/2022 10:40	0.17	9/8/2022 11:37	0.05
		12/8/2022 7:46	-.-	13/8/2022 10:41	-.-	9/8/2022 11:38	-.-
		12/8/2022 7:46	-.-	13/8/2022 10:42	-.-	9/8/2022 11:39	-.-
		12/8/2022 7:46	0.04	13/8/2022 10:41	0.2	9/8/2022 11:38	0.04
		12/8/2022 7:47	-.-	13/8/2022 10:42	-.-	9/8/2022 11:39	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 7:47	-.-
12/8/2022 7:47	0.04
12/8/2022 7:48	-.-
12/8/2022 7:48	-.-
12/8/2022 7:48	0.04
12/8/2022 7:49	-.-
12/8/2022 7:49	-.-
12/8/2022 7:49	0.04
12/8/2022 7:50	-.-
12/8/2022 7:50	-.-
12/8/2022 7:50	0.05
12/8/2022 7:51	-.-
12/8/2022 7:51	-.-
12/8/2022 7:51	0.06
12/8/2022 7:52	-.-
12/8/2022 7:52	-.-
12/8/2022 7:52	0.06
12/8/2022 7:53	-.-
12/8/2022 7:53	-.-
12/8/2022 7:53	0.04
12/8/2022 7:54	-.-
12/8/2022 7:54	-.-
12/8/2022 7:54	0.05
12/8/2022 7:55	-.-
12/8/2022 7:55	-.-
12/8/2022 7:55	0.05
12/8/2022 7:56	-.-
12/8/2022 7:56	-.-
12/8/2022 7:56	0.05
12/8/2022 7:57	-.-
12/8/2022 7:57	-.-
12/8/2022 7:57	0.05
12/8/2022 7:58	-.-
12/8/2022 7:58	-.-
12/8/2022 7:58	0.04
12/8/2022 7:59	-.-
12/8/2022 7:59	-.-
12/8/2022 7:59	0.05
12/8/2022 8:00	-.-
12/8/2022 8:00	-.-
12/8/2022 8:00	0.05
12/8/2022 8:01	-.-
12/8/2022 8:01	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 10:43	-.-
13/8/2022 10:42	0.11
13/8/2022 10:43	-.-
13/8/2022 10:44	-.-
13/8/2022 10:43	0.09
13/8/2022 10:44	-.-
13/8/2022 10:45	-.-
13/8/2022 10:44	0.1
13/8/2022 10:45	-.-
13/8/2022 10:46	-.-
13/8/2022 10:45	0.22
13/8/2022 10:46	-.-
13/8/2022 10:47	-.-
13/8/2022 10:46	0.12
13/8/2022 10:47	-.-
13/8/2022 10:48	-.-
13/8/2022 10:47	0.26
13/8/2022 10:48	-.-
13/8/2022 10:49	-.-
13/8/2022 10:48	0.09
13/8/2022 10:49	-.-
13/8/2022 10:50	-.-
13/8/2022 10:49	0.12
13/8/2022 10:50	-.-
13/8/2022 10:51	-.-
13/8/2022 10:50	0.31
13/8/2022 10:51	-.-
13/8/2022 10:52	-.-
13/8/2022 10:51	0.25
13/8/2022 10:52	-.-
13/8/2022 10:53	-.-
13/8/2022 10:52	0.07
13/8/2022 10:53	-.-
13/8/2022 10:54	-.-
13/8/2022 10:53	0.47
13/8/2022 10:54	-.-
13/8/2022 10:55	-.-
13/8/2022 10:54	0.32
13/8/2022 10:55	-.-
13/8/2022 10:56	-.-
13/8/2022 10:55	0.08
13/8/2022 10:56	-.-
13/8/2022 10:57	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 11:40	-.-
9/8/2022 11:39	0.04
9/8/2022 11:40	-.-
9/8/2022 11:41	-.-
9/8/2022 11:40	0.05
9/8/2022 11:41	-.-
9/8/2022 11:42	-.-
9/8/2022 11:41	0.05
9/8/2022 11:42	-.-
9/8/2022 11:43	-.-
9/8/2022 11:42	0.05
9/8/2022 11:43	-.-
9/8/2022 11:44	-.-
9/8/2022 11:43	0.04
9/8/2022 11:44	-.-
9/8/2022 11:45	-.-
9/8/2022 11:44	0.04
9/8/2022 11:45	-.-
9/8/2022 11:46	-.-
9/8/2022 11:45	0.05
9/8/2022 11:46	-.-
9/8/2022 11:47	-.-
9/8/2022 11:46	0.05
9/8/2022 11:47	-.-
9/8/2022 11:48	-.-
9/8/2022 11:47	0.05
9/8/2022 11:48	-.-
9/8/2022 11:49	-.-
9/8/2022 11:48	0.04
9/8/2022 11:49	-.-
9/8/2022 11:50	-.-
9/8/2022 11:49	0.04
9/8/2022 11:50	-.-
9/8/2022 11:51	-.-
9/8/2022 11:50	0.06
9/8/2022 11:51	-.-
9/8/2022 11:52	-.-
9/8/2022 11:51	0.05
9/8/2022 11:52	-.-
9/8/2022 11:53	-.-
9/8/2022 11:52	0.05
9/8/2022 11:53	-.-
9/8/2022 11:54	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 8:01	0.04
12/8/2022 8:02	-.-
12/8/2022 8:02	-.-
12/8/2022 8:02	0.04
12/8/2022 8:03	-.-
12/8/2022 8:03	-.-
12/8/2022 8:03	0.04
12/8/2022 8:04	-.-
12/8/2022 8:04	-.-
12/8/2022 8:04	0.06
12/8/2022 8:05	-.-
12/8/2022 8:05	-.-
12/8/2022 8:05	0.04
12/8/2022 8:06	-.-
12/8/2022 8:06	-.-
12/8/2022 8:06	0.09
12/8/2022 8:07	-.-
12/8/2022 8:07	-.-
12/8/2022 8:07	0.3
12/8/2022 8:08	-.-
12/8/2022 8:08	-.-
12/8/2022 8:08	0.06
12/8/2022 8:09	-.-
12/8/2022 8:09	-.-
12/8/2022 8:09	0.06
12/8/2022 8:10	-.-
12/8/2022 8:10	-.-
12/8/2022 8:10	0.05
12/8/2022 8:11	-.-
12/8/2022 8:11	-.-
12/8/2022 8:11	0.06
12/8/2022 8:12	-.-
12/8/2022 8:12	-.-
12/8/2022 8:12	0.04
12/8/2022 8:13	-.-
12/8/2022 8:13	-.-
12/8/2022 8:13	0.04
12/8/2022 8:14	-.-
12/8/2022 8:14	-.-
12/8/2022 8:14	0.2
12/8/2022 8:15	-.-
12/8/2022 8:15	-.-
12/8/2022 8:15	0.05

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 10:56	0.17
13/8/2022 10:57	-.-
13/8/2022 10:58	-.-
13/8/2022 10:57	0.07
13/8/2022 10:58	-.-
13/8/2022 10:59	-.-
13/8/2022 10:58	0.09
13/8/2022 10:59	-.-
13/8/2022 11:00	-.-
13/8/2022 10:59	0.15
13/8/2022 11:00	-.-
13/8/2022 11:01	-.-
13/8/2022 11:00	0.06
13/8/2022 11:01	-.-
13/8/2022 11:02	-.-
13/8/2022 11:01	0.07
13/8/2022 11:02	-.-
13/8/2022 11:03	-.-
13/8/2022 11:02	0.16
13/8/2022 11:03	-.-
13/8/2022 11:04	-.-
13/8/2022 11:03	0.09
13/8/2022 11:04	-.-
13/8/2022 11:05	-.-
13/8/2022 11:04	0.23
13/8/2022 11:05	-.-
13/8/2022 11:06	-.-
13/8/2022 11:05	0.23
13/8/2022 11:06	-.-
13/8/2022 11:07	-.-
13/8/2022 11:06	0.21
13/8/2022 11:07	-.-
13/8/2022 11:08	-.-
13/8/2022 11:07	0.13
13/8/2022 11:08	-.-
13/8/2022 11:09	-.-
13/8/2022 11:08	0.06
13/8/2022 11:09	-.-
13/8/2022 11:10	-.-
13/8/2022 11:09	0.18
13/8/2022 11:10	-.-
13/8/2022 11:11	-.-
13/8/2022 11:10	0.09

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 11:53	0.04
9/8/2022 11:54	-.-
9/8/2022 11:55	-.-
9/8/2022 11:54	0.07
9/8/2022 11:55	-.-
9/8/2022 11:56	-.-
9/8/2022 11:55	0.04
9/8/2022 11:56	-.-
9/8/2022 11:57	-.-
9/8/2022 11:56	0.06
9/8/2022 11:57	-.-
9/8/2022 11:58	-.-
9/8/2022 11:57	0.04
9/8/2022 11:58	-.-
9/8/2022 11:59	-.-
9/8/2022 11:58	0.05
9/8/2022 11:59	-.-
9/8/2022 12:00	-.-
9/8/2022 11:59	0.04
9/8/2022 12:00	-.-
9/8/2022 12:01	-.-
9/8/2022 12:00	0.05
9/8/2022 12:01	-.-
9/8/2022 12:02	-.-
9/8/2022 12:01	0.05
9/8/2022 12:02	-.-
9/8/2022 12:03	-.-
9/8/2022 12:02	0.05
9/8/2022 12:03	-.-
9/8/2022 12:04	-.-
9/8/2022 12:03	0.06
9/8/2022 12:04	-.-
9/8/2022 12:05	-.-
9/8/2022 12:04	0.04
9/8/2022 12:05	-.-
9/8/2022 12:06	-.-
9/8/2022 12:05	0.05
9/8/2022 12:06	-.-
9/8/2022 12:07	-.-
9/8/2022 12:06	0.04
9/8/2022 12:07	-.-
9/8/2022 12:08	-.-
9/8/2022 12:07	0.05

Vibration data Station V1 15-16 Aug 2022		Vibration data Station V2 11-12 Aug 2022		Vibration data Station V3 12-13 Aug 2022		Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)
		12/8/2022 8:16	-.-	13/8/2022 11:11	-.-	9/8/2022 12:08	-.-
		12/8/2022 8:16	-.-	13/8/2022 11:12	-.-	9/8/2022 12:09	-.-
		12/8/2022 8:16	0.05	13/8/2022 11:11	0.19	9/8/2022 12:08	0.05
		12/8/2022 8:17	-.-	13/8/2022 11:12	-.-	9/8/2022 12:09	-.-
		12/8/2022 8:17	-.-	13/8/2022 11:13	-.-	9/8/2022 12:10	-.-
		12/8/2022 8:17	0.06	13/8/2022 11:12	0.14	9/8/2022 12:09	0.05
		12/8/2022 8:18	-.-	13/8/2022 11:13	-.-	9/8/2022 12:10	-.-
		12/8/2022 8:18	-.-	13/8/2022 11:14	-.-	9/8/2022 12:11	-.-
		12/8/2022 8:18	0.05	13/8/2022 11:13	0.07	9/8/2022 12:10	0.05
		12/8/2022 8:19	-.-	13/8/2022 11:14	-.-	9/8/2022 12:11	-.-
		12/8/2022 8:19	-.-	13/8/2022 11:15	-.-	9/8/2022 12:12	-.-
		12/8/2022 8:19	0.05	13/8/2022 11:14	0.15	9/8/2022 12:11	0.04
		12/8/2022 8:20	-.-	13/8/2022 11:15	-.-	9/8/2022 12:12	-.-
		12/8/2022 8:20	-.-	13/8/2022 11:16	-.-	9/8/2022 12:13	-.-
		12/8/2022 8:20	0.05	13/8/2022 11:15	0.14	9/8/2022 12:12	0.05
		12/8/2022 8:21	-.-	13/8/2022 11:16	-.-	9/8/2022 12:13	-.-
		12/8/2022 8:21	-.-	13/8/2022 11:17	-.-	9/8/2022 12:14	-.-
		12/8/2022 8:21	0.04	13/8/2022 11:16	0.21	9/8/2022 12:13	0.04
		12/8/2022 8:22	-.-	13/8/2022 11:17	-.-	9/8/2022 12:14	-.-
		12/8/2022 8:22	-.-	13/8/2022 11:18	-.-	9/8/2022 12:15	-.-
		12/8/2022 8:22	0.04	13/8/2022 11:17	0.17	9/8/2022 12:14	0.05
		12/8/2022 8:23	-.-	13/8/2022 11:18	-.-	9/8/2022 12:15	-.-
		12/8/2022 8:23	-.-	13/8/2022 11:19	-.-	9/8/2022 12:16	-.-
		12/8/2022 8:23	0.05	13/8/2022 11:18	0.33	9/8/2022 12:15	0.04
		12/8/2022 8:24	-.-	13/8/2022 11:19	-.-	9/8/2022 12:16	-.-
		12/8/2022 8:24	-.-	13/8/2022 11:20	-.-	9/8/2022 12:17	-.-
		12/8/2022 8:24	0.04	13/8/2022 11:19	0.09	9/8/2022 12:16	0.05
		12/8/2022 8:25	-.-	13/8/2022 11:20	-.-	9/8/2022 12:17	-.-
		12/8/2022 8:25	-.-	13/8/2022 11:21	-.-	9/8/2022 12:18	-.-
		12/8/2022 8:25	0.06	13/8/2022 11:20	0.06	9/8/2022 12:17	0.05
		12/8/2022 8:26	-.-	13/8/2022 11:21	-.-	9/8/2022 12:18	-.-
		12/8/2022 8:26	-.-	13/8/2022 11:22	-.-	9/8/2022 12:19	-.-
		12/8/2022 8:26	0.05	13/8/2022 11:21	0.24	9/8/2022 12:18	0.04
		12/8/2022 8:27	-.-	13/8/2022 11:22	-.-	9/8/2022 12:19	-.-
		12/8/2022 8:27	-.-	13/8/2022 11:23	-.-	9/8/2022 12:20	-.-
		12/8/2022 8:27	0.05	13/8/2022 11:22	0.11	9/8/2022 12:19	0.04
		12/8/2022 8:28	-.-	13/8/2022 11:23	-.-	9/8/2022 12:20	-.-
		12/8/2022 8:28	-.-	13/8/2022 11:24	-.-	9/8/2022 12:21	-.-
		12/8/2022 8:28	0.06	13/8/2022 11:23	0.22	9/8/2022 12:20	0.05
		12/8/2022 8:29	-.-	13/8/2022 11:24	-.-	9/8/2022 12:21	-.-
		12/8/2022 8:29	-.-	13/8/2022 11:25	-.-	9/8/2022 12:22	-.-
		12/8/2022 8:29	0.05	13/8/2022 11:24	0.07	9/8/2022 12:21	0.08
		12/8/2022 8:30	-.-	13/8/2022 11:25	-.-	9/8/2022 12:22	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 8:30	-.-
12/8/2022 8:30	0.05
12/8/2022 8:31	-.-
12/8/2022 8:31	-.-
12/8/2022 8:31	0.05
12/8/2022 8:32	-.-
12/8/2022 8:32	-.-
12/8/2022 8:32	0.05
12/8/2022 8:33	-.-
12/8/2022 8:33	-.-
12/8/2022 8:33	0.07
12/8/2022 8:34	-.-
12/8/2022 8:34	-.-
12/8/2022 8:34	0.05
12/8/2022 8:35	-.-
12/8/2022 8:35	-.-
12/8/2022 8:35	0.04
12/8/2022 8:36	-.-
12/8/2022 8:36	-.-
12/8/2022 8:36	0.05
12/8/2022 8:37	-.-
12/8/2022 8:37	-.-
12/8/2022 8:37	0.04
12/8/2022 8:38	-.-
12/8/2022 8:38	-.-
12/8/2022 8:38	0.05
12/8/2022 8:39	-.-
12/8/2022 8:39	-.-
12/8/2022 8:39	0.05
12/8/2022 8:40	-.-
12/8/2022 8:40	-.-
12/8/2022 8:40	0.06
12/8/2022 8:41	-.-
12/8/2022 8:41	-.-
12/8/2022 8:41	0.06
12/8/2022 8:42	-.-
12/8/2022 8:42	-.-
12/8/2022 8:42	0.06
12/8/2022 8:43	-.-
12/8/2022 8:43	-.-
12/8/2022 8:43	0.05
12/8/2022 8:44	-.-
12/8/2022 8:44	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 11:26	-.-
13/8/2022 11:25	0.07
13/8/2022 11:26	-.-
13/8/2022 11:27	-.-
13/8/2022 11:26	0.07
13/8/2022 11:27	-.-
13/8/2022 11:28	-.-
13/8/2022 11:27	0.25
13/8/2022 11:28	-.-
13/8/2022 11:29	-.-
13/8/2022 11:28	0.2
13/8/2022 11:29	-.-
13/8/2022 11:30	-.-
13/8/2022 11:29	0.27
13/8/2022 11:30	-.-
13/8/2022 11:31	-.-
13/8/2022 11:30	0.12
13/8/2022 11:31	-.-
13/8/2022 11:32	-.-
13/8/2022 11:31	0.19
13/8/2022 11:32	-.-
13/8/2022 11:33	-.-
13/8/2022 11:32	0.18
13/8/2022 11:33	-.-
13/8/2022 11:34	-.-
13/8/2022 11:33	0.32
13/8/2022 11:34	-.-
13/8/2022 11:35	-.-
13/8/2022 11:34	0.18
13/8/2022 11:35	-.-
13/8/2022 11:36	-.-
13/8/2022 11:35	0.3
13/8/2022 11:36	-.-
13/8/2022 11:37	-.-
13/8/2022 11:36	0.18
13/8/2022 11:37	-.-
13/8/2022 11:38	-.-
13/8/2022 11:37	0.09
13/8/2022 11:38	-.-
13/8/2022 11:39	-.-
13/8/2022 11:38	0.16
13/8/2022 11:39	-.-
13/8/2022 11:40	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 12:23	-.-
9/8/2022 12:22	0.08
9/8/2022 12:23	-.-
9/8/2022 12:24	-.-
9/8/2022 12:23	0.05
9/8/2022 12:24	-.-
9/8/2022 12:25	-.-
9/8/2022 12:24	0.05
9/8/2022 12:25	-.-
9/8/2022 12:26	-.-
9/8/2022 12:25	0.06
9/8/2022 12:26	-.-
9/8/2022 12:27	-.-
9/8/2022 12:26	0.06
9/8/2022 12:27	-.-
9/8/2022 12:28	-.-
9/8/2022 12:27	0.08
9/8/2022 12:28	-.-
9/8/2022 12:29	-.-
9/8/2022 12:28	0.05
9/8/2022 12:29	-.-
9/8/2022 12:30	-.-
9/8/2022 12:29	0.06
9/8/2022 12:30	-.-
9/8/2022 12:31	-.-
9/8/2022 12:30	0.1
9/8/2022 12:31	-.-
9/8/2022 12:32	-.-
9/8/2022 12:31	0.04
9/8/2022 12:32	-.-
9/8/2022 12:33	-.-
9/8/2022 12:32	0.04
9/8/2022 12:33	-.-
9/8/2022 12:34	-.-
9/8/2022 12:33	0.06
9/8/2022 12:34	-.-
9/8/2022 12:35	-.-
9/8/2022 12:34	0.05
9/8/2022 12:35	-.-
9/8/2022 12:36	-.-
9/8/2022 12:35	0.05
9/8/2022 12:36	-.-
9/8/2022 12:37	-.-

Vibration data Station V1 15-16 Aug 2022		Vibration data Station V2 11-12 Aug 2022		Vibration data Station V3 12-13 Aug 2022		Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)
		12/8/2022 8:44	0.04	13/8/2022 11:39	0.17	9/8/2022 12:36	0.05
		12/8/2022 8:45	-.-	13/8/2022 11:40	-.-	9/8/2022 12:37	-.-
		12/8/2022 8:45	-.-	13/8/2022 11:41	-.-	9/8/2022 12:38	-.-
		12/8/2022 8:45	0.04	13/8/2022 11:40	0.09	9/8/2022 12:37	0.04
		12/8/2022 8:46	-.-	13/8/2022 11:41	-.-	9/8/2022 12:38	-.-
		12/8/2022 8:46	-.-	13/8/2022 11:42	-.-	9/8/2022 12:39	-.-
		12/8/2022 8:46	0.04	13/8/2022 11:41	0.13	9/8/2022 12:38	0.06
		12/8/2022 8:47	-.-	13/8/2022 11:42	-.-	9/8/2022 12:39	-.-
		12/8/2022 8:47	-.-	13/8/2022 11:43	-.-	9/8/2022 12:40	-.-
		12/8/2022 8:47	0.05	13/8/2022 11:42	0.07	9/8/2022 12:39	0.05
		12/8/2022 8:48	-.-	13/8/2022 11:43	-.-	9/8/2022 12:40	-.-
		12/8/2022 8:48	-.-	13/8/2022 11:44	-.-	9/8/2022 12:41	-.-
		12/8/2022 8:48	0.05	13/8/2022 11:43	0.39	9/8/2022 12:40	0.05
		12/8/2022 8:49	-.-	13/8/2022 11:44	-.-	9/8/2022 12:41	-.-
		12/8/2022 8:49	-.-	13/8/2022 11:45	-.-	9/8/2022 12:42	-.-
		12/8/2022 8:49	0.04	13/8/2022 11:44	0.1	9/8/2022 12:41	0.04
		12/8/2022 8:50	-.-	13/8/2022 11:45	-.-	9/8/2022 12:42	-.-
		12/8/2022 8:50	-.-	13/8/2022 11:46	-.-	9/8/2022 12:43	-.-
		12/8/2022 8:50	0.04	13/8/2022 11:45	0.09	9/8/2022 12:42	0.05
		12/8/2022 8:51	-.-	13/8/2022 11:46	-.-	9/8/2022 12:43	-.-
		12/8/2022 8:51	-.-	13/8/2022 11:47	-.-	9/8/2022 12:44	-.-
		12/8/2022 8:51	0.04	13/8/2022 11:46	0.09	9/8/2022 12:43	0.05
		12/8/2022 8:52	-.-	13/8/2022 11:47	-.-	9/8/2022 12:44	-.-
		12/8/2022 8:52	-.-	13/8/2022 11:48	-.-	9/8/2022 12:45	-.-
		12/8/2022 8:52	0.04	13/8/2022 11:47	0.31	9/8/2022 12:44	0.04
		12/8/2022 8:53	-.-	13/8/2022 11:48	-.-	9/8/2022 12:45	-.-
		12/8/2022 8:53	-.-	13/8/2022 11:49	-.-	9/8/2022 12:46	-.-
		12/8/2022 8:53	0.05	13/8/2022 11:48	0.06	9/8/2022 12:45	0.05
		12/8/2022 8:54	-.-	13/8/2022 11:49	-.-	9/8/2022 12:46	-.-
		12/8/2022 8:54	-.-	13/8/2022 11:50	-.-	9/8/2022 12:47	-.-
		12/8/2022 8:54	0.05	13/8/2022 11:49	0.06	9/8/2022 12:46	0.04
		12/8/2022 8:55	-.-	13/8/2022 11:50	-.-	9/8/2022 12:47	-.-
		12/8/2022 8:55	-.-	13/8/2022 11:51	-.-	9/8/2022 12:48	-.-
		12/8/2022 8:55	0.06	13/8/2022 11:50	0.23	9/8/2022 12:47	0.05
		12/8/2022 8:56	-.-	13/8/2022 11:51	-.-	9/8/2022 12:48	-.-
		12/8/2022 8:56	-.-	13/8/2022 11:52	-.-	9/8/2022 12:49	-.-
		12/8/2022 8:56	0.05	13/8/2022 11:51	0.06	9/8/2022 12:48	0.04
		12/8/2022 8:57	-.-	13/8/2022 11:52	-.-	9/8/2022 12:49	-.-
		12/8/2022 8:57	-.-	13/8/2022 11:53	-.-	9/8/2022 12:50	-.-
		12/8/2022 8:57	0.06	13/8/2022 11:52	0.1	9/8/2022 12:49	0.04
		12/8/2022 8:58	-.-	13/8/2022 11:53	-.-	9/8/2022 12:50	-.-
		12/8/2022 8:58	-.-	13/8/2022 11:54	-.-	9/8/2022 12:51	-.-
		12/8/2022 8:58	0.05	13/8/2022 11:53	0.06	9/8/2022 12:50	0.05

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 8:59	-.-
12/8/2022 8:59	-.-
12/8/2022 8:59	0.05
12/8/2022 9:00	-.-
12/8/2022 9:00	-.-
12/8/2022 9:00	0.05
12/8/2022 9:01	-.-
12/8/2022 9:01	-.-
12/8/2022 9:01	0.05
12/8/2022 9:02	-.-
12/8/2022 9:02	-.-
12/8/2022 9:02	0.05
12/8/2022 9:03	-.-
12/8/2022 9:03	-.-
12/8/2022 9:03	0.05
12/8/2022 9:04	-.-
12/8/2022 9:04	-.-
12/8/2022 9:04	0.04
12/8/2022 9:05	-.-
12/8/2022 9:05	-.-
12/8/2022 9:05	0.04
12/8/2022 9:06	-.-
12/8/2022 9:06	-.-
12/8/2022 9:06	0.04
12/8/2022 9:07	-.-
12/8/2022 9:07	-.-
12/8/2022 9:07	0.04
12/8/2022 9:08	-.-
12/8/2022 9:08	-.-
12/8/2022 9:08	0.05
12/8/2022 9:09	-.-
12/8/2022 9:09	-.-
12/8/2022 9:09	0.04
12/8/2022 9:10	-.-
12/8/2022 9:10	-.-
12/8/2022 9:10	0.05
12/8/2022 9:11	-.-
12/8/2022 9:11	-.-
12/8/2022 9:11	0.05
12/8/2022 9:12	-.-
12/8/2022 9:12	-.-
12/8/2022 9:12	0.04
12/8/2022 9:13	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 11:54	-.-
13/8/2022 11:55	-.-
13/8/2022 11:54	0.07
13/8/2022 11:55	-.-
13/8/2022 11:56	-.-
13/8/2022 11:55	0.18
13/8/2022 11:56	-.-
13/8/2022 11:57	-.-
13/8/2022 11:56	0.23
13/8/2022 11:57	-.-
13/8/2022 11:58	-.-
13/8/2022 11:57	0.17
13/8/2022 11:58	-.-
13/8/2022 11:59	-.-
13/8/2022 11:58	0.16
13/8/2022 11:59	-.-
13/8/2022 12:00	-.-
13/8/2022 11:59	0.08
13/8/2022 12:00	-.-
13/8/2022 12:01	-.-
13/8/2022 12:00	0.21
13/8/2022 12:01	-.-
13/8/2022 12:02	-.-
13/8/2022 12:01	0.12
13/8/2022 12:02	-.-
13/8/2022 12:03	-.-
13/8/2022 12:02	0.07
13/8/2022 12:03	-.-
13/8/2022 12:04	-.-
13/8/2022 12:03	0.07
13/8/2022 12:04	-.-
13/8/2022 12:05	-.-
13/8/2022 12:04	0.09
13/8/2022 12:05	-.-
13/8/2022 12:06	-.-
13/8/2022 12:05	0.1
13/8/2022 12:06	-.-
13/8/2022 12:07	-.-
13/8/2022 12:06	0.21
13/8/2022 12:07	-.-
13/8/2022 12:08	-.-
13/8/2022 12:07	0.09
13/8/2022 12:08	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 12:51	-.-
9/8/2022 12:52	-.-
9/8/2022 12:51	0.04
9/8/2022 12:52	-.-
9/8/2022 12:53	-.-
9/8/2022 12:52	0.04
9/8/2022 12:53	-.-
9/8/2022 12:54	-.-
9/8/2022 12:53	0.05
9/8/2022 12:54	-.-
9/8/2022 12:55	-.-
9/8/2022 12:54	0.04
9/8/2022 12:55	-.-
9/8/2022 12:56	-.-
9/8/2022 12:55	0.05
9/8/2022 12:56	-.-
9/8/2022 12:57	-.-
9/8/2022 12:56	0.04
9/8/2022 12:57	-.-
9/8/2022 12:58	-.-
9/8/2022 12:57	0.04
9/8/2022 12:58	-.-
9/8/2022 12:59	-.-
9/8/2022 12:58	0.06
9/8/2022 12:59	-.-
9/8/2022 13:00	-.-
9/8/2022 12:59	0.04
9/8/2022 13:00	-.-
9/8/2022 13:01	-.-
9/8/2022 13:00	0.04
9/8/2022 13:01	-.-
9/8/2022 13:02	-.-
9/8/2022 13:01	0.06
9/8/2022 13:02	-.-
9/8/2022 13:03	-.-
9/8/2022 13:02	0.05
9/8/2022 13:03	-.-
9/8/2022 13:04	-.-
9/8/2022 13:03	0.04
9/8/2022 13:04	-.-
9/8/2022 13:05	-.-
9/8/2022 13:04	0.05
9/8/2022 13:05	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 9:13	-.-
12/8/2022 9:13	0.04
12/8/2022 9:14	-.-
12/8/2022 9:14	-.-
12/8/2022 9:14	0.04
12/8/2022 9:15	-.-
12/8/2022 9:15	-.-
12/8/2022 9:15	0.05
12/8/2022 9:16	-.-
12/8/2022 9:16	-.-
12/8/2022 9:16	0.04
12/8/2022 9:17	-.-
12/8/2022 9:17	-.-
12/8/2022 9:17	0.04
12/8/2022 9:18	-.-
12/8/2022 9:18	-.-
12/8/2022 9:18	0.04
12/8/2022 9:19	-.-
12/8/2022 9:19	-.-
12/8/2022 9:19	0.05
12/8/2022 9:20	-.-
12/8/2022 9:20	-.-
12/8/2022 9:20	0.05
12/8/2022 9:21	-.-
12/8/2022 9:21	-.-
12/8/2022 9:21	0.05
12/8/2022 9:22	-.-
12/8/2022 9:22	-.-
12/8/2022 9:22	0.07
12/8/2022 9:23	-.-
12/8/2022 9:23	-.-
12/8/2022 9:23	0.04
12/8/2022 9:24	-.-
12/8/2022 9:24	-.-
12/8/2022 9:24	0.04
12/8/2022 9:25	-.-
12/8/2022 9:25	-.-
12/8/2022 9:25	0.06
12/8/2022 9:26	-.-
12/8/2022 9:26	-.-
12/8/2022 9:26	0.05
12/8/2022 9:27	-.-
12/8/2022 9:27	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 12:09	-.-
13/8/2022 12:08	0.06
13/8/2022 12:09	-.-
13/8/2022 12:10	-.-
13/8/2022 12:09	0.22
13/8/2022 12:10	-.-
13/8/2022 12:11	-.-
13/8/2022 12:10	0.13
13/8/2022 12:11	-.-
13/8/2022 12:12	-.-
13/8/2022 12:11	0.18
13/8/2022 12:12	-.-
13/8/2022 12:13	-.-
13/8/2022 12:12	0.07
13/8/2022 12:13	-.-
13/8/2022 12:14	-.-
13/8/2022 12:13	0.14
13/8/2022 12:14	-.-
13/8/2022 12:15	-.-
13/8/2022 12:14	0.17
13/8/2022 12:15	-.-
13/8/2022 12:16	-.-
13/8/2022 12:15	0.28
13/8/2022 12:16	-.-
13/8/2022 12:17	-.-
13/8/2022 12:16	0.07
13/8/2022 12:17	-.-
13/8/2022 12:18	-.-
13/8/2022 12:17	0.08
13/8/2022 12:18	-.-
13/8/2022 12:19	-.-
13/8/2022 12:18	0.18
13/8/2022 12:19	-.-
13/8/2022 12:20	-.-
13/8/2022 12:19	0.22
13/8/2022 12:20	-.-
13/8/2022 12:21	-.-
13/8/2022 12:20	0.07
13/8/2022 12:21	-.-
13/8/2022 12:22	-.-
13/8/2022 12:21	0.11
13/8/2022 12:22	-.-
13/8/2022 12:23	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 13:06	-.-
9/8/2022 13:05	0.05
9/8/2022 13:06	-.-
9/8/2022 13:07	-.-
9/8/2022 13:06	0.04
9/8/2022 13:07	-.-
9/8/2022 13:08	-.-
9/8/2022 13:07	0.04
9/8/2022 13:08	-.-
9/8/2022 13:09	-.-
9/8/2022 13:08	0.05
9/8/2022 13:09	-.-
9/8/2022 13:10	-.-
9/8/2022 13:09	0.05
9/8/2022 13:10	-.-
9/8/2022 13:11	-.-
9/8/2022 13:10	0.07
9/8/2022 13:11	-.-
9/8/2022 13:12	-.-
9/8/2022 13:11	0.05
9/8/2022 13:12	-.-
9/8/2022 13:13	-.-
9/8/2022 13:12	0.05
9/8/2022 13:13	-.-
9/8/2022 13:14	-.-
9/8/2022 13:13	0.05
9/8/2022 13:14	-.-
9/8/2022 13:15	-.-
9/8/2022 13:14	0.06
9/8/2022 13:15	-.-
9/8/2022 13:16	-.-
9/8/2022 13:15	0.06
9/8/2022 13:16	-.-
9/8/2022 13:17	-.-
9/8/2022 13:16	0.06
9/8/2022 13:17	-.-
9/8/2022 13:18	-.-
9/8/2022 13:17	0.06
9/8/2022 13:18	-.-
9/8/2022 13:19	-.-
9/8/2022 13:18	0.07
9/8/2022 13:19	-.-
9/8/2022 13:20	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 9:27	0.04
12/8/2022 9:28	-.-
12/8/2022 9:28	-.-
12/8/2022 9:28	0.04
12/8/2022 9:29	-.-
12/8/2022 9:29	-.-
12/8/2022 9:29	0.05
12/8/2022 9:30	-.-
12/8/2022 9:30	-.-
12/8/2022 9:30	0.04
12/8/2022 9:31	-.-
12/8/2022 9:31	-.-
12/8/2022 9:31	0.04
12/8/2022 9:32	-.-
12/8/2022 9:32	-.-
12/8/2022 9:32	0.05
12/8/2022 9:33	-.-
12/8/2022 9:33	-.-
12/8/2022 9:33	0.07
12/8/2022 9:34	-.-
12/8/2022 9:34	-.-
12/8/2022 9:34	0.05
12/8/2022 9:35	-.-
12/8/2022 9:35	-.-
12/8/2022 9:35	0.08
12/8/2022 9:36	-.-
12/8/2022 9:36	-.-
12/8/2022 9:36	0.06
12/8/2022 9:37	-.-
12/8/2022 9:37	-.-
12/8/2022 9:37	0.05
12/8/2022 9:38	-.-
12/8/2022 9:38	-.-
12/8/2022 9:38	0.05
12/8/2022 9:39	-.-
12/8/2022 9:39	-.-
12/8/2022 9:39	0.05
12/8/2022 9:40	-.-
12/8/2022 9:40	-.-
12/8/2022 9:40	0.05
12/8/2022 9:41	-.-
12/8/2022 9:41	-.-
12/8/2022 9:41	0.05

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 12:22	0.06
13/8/2022 12:23	-.-
13/8/2022 12:24	-.-
13/8/2022 12:23	0.2
13/8/2022 12:24	-.-
13/8/2022 12:25	-.-
13/8/2022 12:24	0.15
13/8/2022 12:25	-.-
13/8/2022 12:26	-.-
13/8/2022 12:25	0.13
13/8/2022 12:26	-.-
13/8/2022 12:27	-.-
13/8/2022 12:26	0.13
13/8/2022 12:27	-.-
13/8/2022 12:28	-.-
13/8/2022 12:27	0.13
13/8/2022 12:28	-.-
13/8/2022 12:29	-.-
13/8/2022 12:28	0.1
13/8/2022 12:29	-.-
13/8/2022 12:30	-.-
13/8/2022 12:29	0.07
13/8/2022 12:30	-.-
13/8/2022 12:31	-.-
13/8/2022 12:30	0.17
13/8/2022 12:31	-.-
13/8/2022 12:32	-.-
13/8/2022 12:31	0.24
13/8/2022 12:32	-.-
13/8/2022 12:33	-.-
13/8/2022 12:32	0.1
13/8/2022 12:33	-.-
13/8/2022 12:34	-.-
13/8/2022 12:33	0.12
13/8/2022 12:34	-.-
13/8/2022 12:35	-.-
13/8/2022 12:34	0.13
13/8/2022 12:35	-.-
13/8/2022 12:36	-.-
13/8/2022 12:35	0.08
13/8/2022 12:36	-.-
13/8/2022 12:37	-.-
13/8/2022 12:36	0.13

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 13:19	0.05
9/8/2022 13:20	-.-
9/8/2022 13:21	-.-
9/8/2022 13:20	0.04
9/8/2022 13:21	-.-
9/8/2022 13:22	-.-
9/8/2022 13:21	0.05
9/8/2022 13:22	-.-
9/8/2022 13:23	-.-
9/8/2022 13:22	0.05
9/8/2022 13:23	-.-
9/8/2022 13:24	-.-
9/8/2022 13:23	0.06
9/8/2022 13:24	-.-
9/8/2022 13:25	-.-
9/8/2022 13:24	0.04
9/8/2022 13:25	-.-
9/8/2022 13:26	-.-
9/8/2022 13:25	0.05
9/8/2022 13:26	-.-
9/8/2022 13:27	-.-
9/8/2022 13:26	0.04
9/8/2022 13:27	-.-
9/8/2022 13:28	-.-
9/8/2022 13:27	0.05
9/8/2022 13:28	-.-
9/8/2022 13:29	-.-
9/8/2022 13:28	0.04
9/8/2022 13:29	-.-
9/8/2022 13:30	-.-
9/8/2022 13:29	0.04
9/8/2022 13:30	-.-
9/8/2022 13:31	-.-
9/8/2022 13:30	0.04
9/8/2022 13:31	-.-
9/8/2022 13:32	-.-
9/8/2022 13:31	0.04
9/8/2022 13:32	-.-
9/8/2022 13:33	-.-
9/8/2022 13:32	0.04
9/8/2022 13:33	-.-
9/8/2022 13:34	-.-
9/8/2022 13:33	0.05

Vibration data Station V1 15-16 Aug 2022		Vibration data Station V2 11-12 Aug 2022		Vibration data Station V3 12-13 Aug 2022		Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)	Date & Time	P.V.S (mm/s)
		12/8/2022 9:42	-.-	13/8/2022 12:37	-.-	9/8/2022 13:34	-.-
		12/8/2022 9:42	-.-	13/8/2022 12:38	-.-	9/8/2022 13:35	-.-
		12/8/2022 9:42	0.04	13/8/2022 12:37	0.05	9/8/2022 13:34	0.04
		12/8/2022 9:43	-.-	13/8/2022 12:38	-.-	9/8/2022 13:35	-.-
		12/8/2022 9:43	-.-	13/8/2022 12:39	-.-	9/8/2022 13:36	-.-
		12/8/2022 9:43	0.05	13/8/2022 12:38	0.09	9/8/2022 13:35	0.05
		12/8/2022 9:44	-.-	13/8/2022 12:39	-.-	9/8/2022 13:36	-.-
		12/8/2022 9:44	-.-	13/8/2022 12:40	-.-	9/8/2022 13:37	-.-
		12/8/2022 9:44	0.05	13/8/2022 12:39	0.14	9/8/2022 13:36	0.05
		12/8/2022 9:45	-.-	13/8/2022 12:40	-.-	9/8/2022 13:37	-.-
		12/8/2022 9:45	-.-	13/8/2022 12:41	-.-	9/8/2022 13:38	-.-
		12/8/2022 9:45	0.05	13/8/2022 12:40	0.09	9/8/2022 13:37	0.04
		12/8/2022 9:46	-.-	13/8/2022 12:41	-.-	9/8/2022 13:38	-.-
		12/8/2022 9:46	-.-	13/8/2022 12:42	-.-	9/8/2022 13:39	-.-
		12/8/2022 9:46	0.06	13/8/2022 12:41	0.07	9/8/2022 13:38	0.05
		12/8/2022 9:47	-.-	13/8/2022 12:42	-.-	9/8/2022 13:39	-.-
		12/8/2022 9:47	-.-	13/8/2022 12:43	-.-	9/8/2022 13:40	-.-
		12/8/2022 9:47	0.06	13/8/2022 12:42	0.07	9/8/2022 13:39	0.04
		12/8/2022 9:48	-.-	13/8/2022 12:43	-.-	9/8/2022 13:40	-.-
		12/8/2022 9:48	-.-	13/8/2022 12:44	-.-	9/8/2022 13:41	-.-
		12/8/2022 9:48	0.06	13/8/2022 12:43	0.1	9/8/2022 13:40	0.04
		12/8/2022 9:49	-.-	13/8/2022 12:44	-.-	9/8/2022 13:41	-.-
		12/8/2022 9:49	-.-	13/8/2022 12:45	-.-	9/8/2022 13:42	-.-
		12/8/2022 9:49	0.08	13/8/2022 12:44	0.06	9/8/2022 13:41	0.05
		12/8/2022 9:50	-.-	13/8/2022 12:45	-.-	9/8/2022 13:42	-.-
		12/8/2022 9:50	-.-	13/8/2022 12:46	-.-	9/8/2022 13:43	-.-
		12/8/2022 9:50	0.07	13/8/2022 12:45	0.28	9/8/2022 13:42	0.05
		12/8/2022 9:51	-.-	13/8/2022 12:46	-.-	9/8/2022 13:43	-.-
		12/8/2022 9:51	-.-	13/8/2022 12:47	-.-	9/8/2022 13:44	-.-
		12/8/2022 9:51	0.06	13/8/2022 12:46	0.09	9/8/2022 13:43	0.05
		12/8/2022 9:52	-.-	13/8/2022 12:47	-.-	9/8/2022 13:44	-.-
		12/8/2022 9:52	-.-	13/8/2022 12:48	-.-	9/8/2022 13:45	-.-
		12/8/2022 9:52	0.05	13/8/2022 12:47	0.08	9/8/2022 13:44	0.05
		12/8/2022 9:53	-.-	13/8/2022 12:48	-.-	9/8/2022 13:45	-.-
		12/8/2022 9:53	-.-	13/8/2022 12:49	-.-	9/8/2022 13:46	-.-
		12/8/2022 9:53	0.05	13/8/2022 12:48	0.12	9/8/2022 13:45	0.05
		12/8/2022 9:54	-.-	13/8/2022 12:49	-.-	9/8/2022 13:46	-.-
		12/8/2022 9:54	-.-	13/8/2022 12:50	-.-	9/8/2022 13:47	-.-
		12/8/2022 9:54	0.05	13/8/2022 12:49	0.08	9/8/2022 13:46	0.05
		12/8/2022 9:55	-.-	13/8/2022 12:50	-.-	9/8/2022 13:47	-.-
		12/8/2022 9:55	-.-	13/8/2022 12:51	-.-	9/8/2022 13:48	-.-
		12/8/2022 9:55	0.06	13/8/2022 12:50	0.25	9/8/2022 13:47	0.05
		12/8/2022 9:56	-.-	13/8/2022 12:51	-.-	9/8/2022 13:48	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 9:56	-.-
12/8/2022 9:56	0.05
12/8/2022 9:57	-.-
12/8/2022 9:57	-.-
12/8/2022 9:57	0.05
12/8/2022 9:58	-.-
12/8/2022 9:58	-.-
12/8/2022 9:58	0.05
12/8/2022 9:59	-.-
12/8/2022 9:59	-.-
12/8/2022 9:59	0.04
12/8/2022 10:00	-.-
12/8/2022 10:00	-.-
12/8/2022 10:00	0.07
12/8/2022 10:01	-.-
12/8/2022 10:01	-.-
12/8/2022 10:01	0.06
12/8/2022 10:02	-.-
12/8/2022 10:02	-.-
12/8/2022 10:02	0.05
12/8/2022 10:03	-.-
12/8/2022 10:03	-.-
12/8/2022 10:03	0.09
12/8/2022 10:04	-.-
12/8/2022 10:04	-.-
12/8/2022 10:04	0.06
12/8/2022 10:05	-.-
12/8/2022 10:05	-.-
12/8/2022 10:05	0.06
12/8/2022 10:06	-.-
12/8/2022 10:06	-.-
12/8/2022 10:06	0.05
12/8/2022 10:07	-.-
12/8/2022 10:07	-.-
12/8/2022 10:07	0.07
12/8/2022 10:08	-.-
12/8/2022 10:08	-.-
12/8/2022 10:08	0.05
12/8/2022 10:09	-.-
12/8/2022 10:09	-.-
12/8/2022 10:09	0.05
12/8/2022 10:10	-.-
12/8/2022 10:10	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 12:52	-.-
13/8/2022 12:51	0.08
13/8/2022 12:52	-.-
13/8/2022 12:53	-.-
13/8/2022 12:52	0.16
13/8/2022 12:53	-.-
13/8/2022 12:54	-.-
13/8/2022 12:53	0.14
13/8/2022 12:54	-.-
13/8/2022 12:55	-.-
13/8/2022 12:54	0.13
13/8/2022 12:55	-.-
13/8/2022 12:56	-.-
13/8/2022 12:55	0.06
13/8/2022 12:56	-.-
13/8/2022 12:57	-.-
13/8/2022 12:56	0.08
13/8/2022 12:57	-.-
13/8/2022 12:58	-.-
13/8/2022 12:57	0.17
13/8/2022 12:58	-.-
13/8/2022 12:59	-.-
13/8/2022 12:58	0.2
13/8/2022 12:59	-.-
13/8/2022 13:00	-.-
13/8/2022 12:59	0.11
13/8/2022 13:00	-.-
13/8/2022 13:01	-.-
13/8/2022 13:00	0.26
13/8/2022 13:01	-.-
13/8/2022 13:02	-.-
13/8/2022 13:01	0.05
13/8/2022 13:02	-.-
13/8/2022 13:03	-.-
13/8/2022 13:02	0.17
13/8/2022 13:03	-.-
13/8/2022 13:04	-.-
13/8/2022 13:03	0.13
13/8/2022 13:04	-.-
13/8/2022 13:05	-.-
13/8/2022 13:04	0.2
13/8/2022 13:05	-.-
13/8/2022 13:06	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 13:49	-.-
9/8/2022 13:48	0.05
9/8/2022 13:49	-.-
9/8/2022 13:50	-.-
9/8/2022 13:49	0.04
9/8/2022 13:50	-.-
9/8/2022 13:51	-.-
9/8/2022 13:50	0.05
9/8/2022 13:51	-.-
9/8/2022 13:52	-.-
9/8/2022 13:51	0.05
9/8/2022 13:52	-.-
9/8/2022 13:53	-.-
9/8/2022 13:52	0.05
9/8/2022 13:53	-.-
9/8/2022 13:54	-.-
9/8/2022 13:53	0.05
9/8/2022 13:54	-.-
9/8/2022 13:55	-.-
9/8/2022 13:54	0.05
9/8/2022 13:55	-.-
9/8/2022 13:56	-.-
9/8/2022 13:55	0.04
9/8/2022 13:56	-.-
9/8/2022 13:57	-.-
9/8/2022 13:56	0.05
9/8/2022 13:57	-.-
9/8/2022 13:58	-.-
9/8/2022 13:57	0.05
9/8/2022 13:58	-.-
9/8/2022 13:59	-.-
9/8/2022 13:58	0.05
9/8/2022 13:59	-.-
9/8/2022 14:00	-.-
9/8/2022 13:59	0.05
9/8/2022 14:00	-.-
9/8/2022 14:01	-.-
9/8/2022 14:00	0.05
9/8/2022 14:01	-.-
9/8/2022 14:02	-.-
9/8/2022 14:01	0.05
9/8/2022 14:02	-.-
9/8/2022 14:03	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 10:10	0.05
12/8/2022 10:11	-.-
12/8/2022 10:11	-.-
12/8/2022 10:11	0.05
12/8/2022 10:12	-.-
12/8/2022 10:12	-.-
12/8/2022 10:12	0.04
12/8/2022 10:13	-.-
12/8/2022 10:13	-.-
12/8/2022 10:13	0.05
12/8/2022 10:14	-.-
12/8/2022 10:14	-.-
12/8/2022 10:14	0.04
12/8/2022 10:15	-.-
12/8/2022 10:15	-.-
12/8/2022 10:15	0.06
12/8/2022 10:16	-.-
12/8/2022 10:16	-.-
12/8/2022 10:16	0.04
12/8/2022 10:17	-.-
12/8/2022 10:17	-.-
12/8/2022 10:17	0.04
12/8/2022 10:18	-.-
12/8/2022 10:18	-.-
12/8/2022 10:18	0.05
12/8/2022 10:19	-.-
12/8/2022 10:19	-.-
12/8/2022 10:19	0.05
12/8/2022 10:20	-.-
12/8/2022 10:20	-.-
12/8/2022 10:20	0.05
12/8/2022 10:21	-.-
12/8/2022 10:21	-.-
12/8/2022 10:21	0.04
12/8/2022 10:22	-.-
12/8/2022 10:22	-.-
12/8/2022 10:22	0.06
12/8/2022 10:23	-.-
12/8/2022 10:23	-.-
12/8/2022 10:23	0.05
12/8/2022 10:24	-.-
12/8/2022 10:24	-.-
12/8/2022 10:24	0.05

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 13:05	0.13
13/8/2022 13:06	-.-
13/8/2022 13:07	-.-
13/8/2022 13:06	0.17
13/8/2022 13:07	-.-
13/8/2022 13:08	-.-
13/8/2022 13:07	0.08
13/8/2022 13:08	-.-
13/8/2022 13:09	-.-
13/8/2022 13:08	0.08
13/8/2022 13:09	-.-
13/8/2022 13:10	-.-
13/8/2022 13:09	0.22
13/8/2022 13:10	-.-
13/8/2022 13:11	-.-
13/8/2022 13:10	0.4
13/8/2022 13:11	-.-
13/8/2022 13:12	-.-
13/8/2022 13:11	0.09
13/8/2022 13:12	-.-
13/8/2022 13:13	-.-
13/8/2022 13:12	0.16
13/8/2022 13:13	-.-
13/8/2022 13:14	-.-
13/8/2022 13:13	0.07
13/8/2022 13:14	-.-
13/8/2022 13:15	-.-
13/8/2022 13:14	0.08
13/8/2022 13:15	-.-
13/8/2022 13:16	-.-
13/8/2022 13:15	0.07
13/8/2022 13:16	-.-
13/8/2022 13:17	-.-
13/8/2022 13:16	0.18
13/8/2022 13:17	-.-
13/8/2022 13:18	-.-
13/8/2022 13:17	0.19
13/8/2022 13:18	-.-
13/8/2022 13:19	-.-
13/8/2022 13:18	0.09
13/8/2022 13:19	-.-
13/8/2022 13:20	-.-
13/8/2022 13:19	0.15

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 14:02	0.04
9/8/2022 14:03	-.-
9/8/2022 14:04	-.-
9/8/2022 14:03	0.04
9/8/2022 14:04	-.-
9/8/2022 14:05	-.-
9/8/2022 14:04	0.04
9/8/2022 14:05	-.-
9/8/2022 14:06	-.-
9/8/2022 14:05	0.04
9/8/2022 14:06	-.-
9/8/2022 14:07	-.-
9/8/2022 14:06	0.04
9/8/2022 14:07	-.-
9/8/2022 14:08	-.-
9/8/2022 14:07	0.04
9/8/2022 14:08	-.-
9/8/2022 14:09	-.-
9/8/2022 14:08	0.05
9/8/2022 14:09	-.-
9/8/2022 14:10	-.-
9/8/2022 14:09	0.05
9/8/2022 14:10	-.-
9/8/2022 14:11	-.-
9/8/2022 14:10	0.04
9/8/2022 14:11	-.-
9/8/2022 14:12	-.-
9/8/2022 14:11	0.04
9/8/2022 14:12	-.-
9/8/2022 14:13	-.-
9/8/2022 14:12	0.05
9/8/2022 14:13	-.-
9/8/2022 14:14	-.-
9/8/2022 14:13	0.04
9/8/2022 14:14	-.-
9/8/2022 14:15	-.-
9/8/2022 14:14	0.05
9/8/2022 14:15	-.-
9/8/2022 14:16	-.-
9/8/2022 14:15	0.06
9/8/2022 14:16	-.-
9/8/2022 14:17	-.-
9/8/2022 14:16	0.05

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 10:25	-.-
12/8/2022 10:25	-.-
12/8/2022 10:25	0.05
12/8/2022 10:26	-.-
12/8/2022 10:26	-.-
12/8/2022 10:26	0.06
12/8/2022 10:27	-.-
12/8/2022 10:27	-.-
12/8/2022 10:27	0.05
12/8/2022 10:28	-.-
12/8/2022 10:28	-.-
12/8/2022 10:28	0.05
12/8/2022 10:29	-.-
12/8/2022 10:29	-.-
12/8/2022 10:29	0.05
12/8/2022 10:30	-.-
12/8/2022 10:30	-.-
12/8/2022 10:30	0.04
12/8/2022 10:31	-.-
12/8/2022 10:31	-.-
12/8/2022 10:31	0.05
12/8/2022 10:32	-.-
12/8/2022 10:32	-.-
12/8/2022 10:32	0.05
12/8/2022 10:33	-.-
12/8/2022 10:33	-.-
12/8/2022 10:33	0.05
12/8/2022 10:34	-.-
12/8/2022 10:34	-.-
12/8/2022 10:34	0.04
12/8/2022 10:35	-.-
12/8/2022 10:35	-.-
12/8/2022 10:35	0.04
12/8/2022 10:36	-.-
12/8/2022 10:36	-.-
12/8/2022 10:36	0.05
12/8/2022 10:37	-.-
12/8/2022 10:37	-.-
12/8/2022 10:37	0.05
12/8/2022 10:38	-.-
12/8/2022 10:38	-.-
12/8/2022 10:38	0.05
12/8/2022 10:39	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 13:20	-.-
13/8/2022 13:21	-.-
13/8/2022 13:20	0.26
13/8/2022 13:21	-.-
13/8/2022 13:22	-.-
13/8/2022 13:21	0.17
13/8/2022 13:22	-.-
13/8/2022 13:23	-.-
13/8/2022 13:22	0.11
13/8/2022 13:23	-.-
13/8/2022 13:24	-.-
13/8/2022 13:23	0.27
13/8/2022 13:24	-.-
13/8/2022 13:25	-.-
13/8/2022 13:24	0.09
13/8/2022 13:25	-.-
13/8/2022 13:26	-.-
13/8/2022 13:25	0.1
13/8/2022 13:26	-.-
13/8/2022 13:27	-.-
13/8/2022 13:26	0.17
13/8/2022 13:27	-.-
13/8/2022 13:28	-.-
13/8/2022 13:27	0.07
13/8/2022 13:28	-.-
13/8/2022 13:29	-.-
13/8/2022 13:28	0.16
13/8/2022 13:29	-.-
13/8/2022 13:30	-.-
13/8/2022 13:29	0.06
13/8/2022 13:30	-.-
13/8/2022 13:31	-.-
13/8/2022 13:30	0.16
13/8/2022 13:31	-.-
13/8/2022 13:32	-.-
13/8/2022 13:31	0.24
13/8/2022 13:32	-.-
13/8/2022 13:33	-.-
13/8/2022 13:32	0.07
13/8/2022 13:33	-.-
13/8/2022 13:34	-.-
13/8/2022 13:33	0.07
13/8/2022 13:34	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 14:17	-.-
9/8/2022 14:18	-.-
9/8/2022 14:17	0.05
9/8/2022 14:18	-.-
9/8/2022 14:19	-.-
9/8/2022 14:18	0.05
9/8/2022 14:19	-.-
9/8/2022 14:20	-.-
9/8/2022 14:19	0.04
9/8/2022 14:20	-.-
9/8/2022 14:21	-.-
9/8/2022 14:20	0.05
9/8/2022 14:21	-.-
9/8/2022 14:22	-.-
9/8/2022 14:21	0.04
9/8/2022 14:22	-.-
9/8/2022 14:23	-.-
9/8/2022 14:22	0.04
9/8/2022 14:23	-.-
9/8/2022 14:24	-.-
9/8/2022 14:23	0.05
9/8/2022 14:24	-.-
9/8/2022 14:25	-.-
9/8/2022 14:24	0.04
9/8/2022 14:25	-.-
9/8/2022 14:26	-.-
9/8/2022 14:25	0.05
9/8/2022 14:26	-.-
9/8/2022 14:27	-.-
9/8/2022 14:26	0.04
9/8/2022 14:27	-.-
9/8/2022 14:28	-.-
9/8/2022 14:27	0.04
9/8/2022 14:28	-.-
9/8/2022 14:29	-.-
9/8/2022 14:28	0.05
9/8/2022 14:29	-.-
9/8/2022 14:30	-.-
9/8/2022 14:29	0.08
9/8/2022 14:30	-.-
9/8/2022 14:31	-.-
9/8/2022 14:30	0.05
9/8/2022 14:31	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 10:39	-.-
12/8/2022 10:39	0.05
12/8/2022 10:40	-.-
12/8/2022 10:40	-.-
12/8/2022 10:40	0.05
12/8/2022 10:41	-.-
12/8/2022 10:41	-.-
12/8/2022 10:41	0.05
12/8/2022 10:42	-.-
12/8/2022 10:42	-.-
12/8/2022 10:42	0.1
12/8/2022 10:43	-.-
12/8/2022 10:43	-.-
12/8/2022 10:43	0.05
12/8/2022 10:44	-.-
12/8/2022 10:44	-.-
12/8/2022 10:44	0.04
12/8/2022 10:45	-.-
12/8/2022 10:45	-.-
12/8/2022 10:45	0.04
12/8/2022 10:46	-.-
12/8/2022 10:46	-.-
12/8/2022 10:46	0.08
12/8/2022 10:47	-.-
12/8/2022 10:47	-.-
12/8/2022 10:47	0.05
12/8/2022 10:48	-.-
12/8/2022 10:48	-.-
12/8/2022 10:48	0.05
12/8/2022 10:49	-.-
12/8/2022 10:49	-.-
12/8/2022 10:49	0.05
12/8/2022 10:50	-.-
12/8/2022 10:50	-.-
12/8/2022 10:50	0.04
12/8/2022 10:51	-.-
12/8/2022 10:51	-.-
12/8/2022 10:51	0.04
12/8/2022 10:52	-.-
12/8/2022 10:52	-.-
12/8/2022 10:52	0.05
12/8/2022 10:53	-.-
12/8/2022 10:53	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 13:35	-.-
13/8/2022 13:34	0.25
13/8/2022 13:35	-.-
13/8/2022 13:36	-.-
13/8/2022 13:35	0.13
13/8/2022 13:36	-.-
13/8/2022 13:37	-.-
13/8/2022 13:36	0.09
13/8/2022 13:37	-.-
13/8/2022 13:38	-.-
13/8/2022 13:37	0.07
13/8/2022 13:38	-.-
13/8/2022 13:39	-.-
13/8/2022 13:38	0.11
13/8/2022 13:39	-.-
13/8/2022 13:40	-.-
13/8/2022 13:39	0.28
13/8/2022 13:40	-.-
13/8/2022 13:41	-.-
13/8/2022 13:40	0.22
13/8/2022 13:41	-.-
13/8/2022 13:42	-.-
13/8/2022 13:41	0.12
13/8/2022 13:42	-.-
13/8/2022 13:43	-.-
13/8/2022 13:42	0.16
13/8/2022 13:43	-.-
13/8/2022 13:44	-.-
13/8/2022 13:43	0.06
13/8/2022 13:44	-.-
13/8/2022 13:45	-.-
13/8/2022 13:44	0.21
13/8/2022 13:45	-.-
13/8/2022 13:46	-.-
13/8/2022 13:45	0.08
13/8/2022 13:46	-.-
13/8/2022 13:47	-.-
13/8/2022 13:46	0.27
13/8/2022 13:47	-.-
13/8/2022 13:48	-.-
13/8/2022 13:47	0.22
13/8/2022 13:48	-.-
13/8/2022 13:49	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 14:32	-.-
9/8/2022 14:31	0.05
9/8/2022 14:32	-.-
9/8/2022 14:33	-.-
9/8/2022 14:32	0.05
9/8/2022 14:33	-.-
9/8/2022 14:34	-.-
9/8/2022 14:33	0.05
9/8/2022 14:34	-.-
9/8/2022 14:35	-.-
9/8/2022 14:34	0.04
9/8/2022 14:35	-.-
9/8/2022 14:36	-.-
9/8/2022 14:35	0.06
9/8/2022 14:36	-.-
9/8/2022 14:37	-.-
9/8/2022 14:36	0.05
9/8/2022 14:37	-.-
9/8/2022 14:38	-.-
9/8/2022 14:37	0.07
9/8/2022 14:38	-.-
9/8/2022 14:39	-.-
9/8/2022 14:38	0.04
9/8/2022 14:39	-.-
9/8/2022 14:40	-.-
9/8/2022 14:39	0.04
9/8/2022 14:40	-.-
9/8/2022 14:41	-.-
9/8/2022 14:40	0.05
9/8/2022 14:41	-.-
9/8/2022 14:42	-.-
9/8/2022 14:41	0.04
9/8/2022 14:42	-.-
9/8/2022 14:43	-.-
9/8/2022 14:42	0.04
9/8/2022 14:43	-.-
9/8/2022 14:44	-.-
9/8/2022 14:43	0.05
9/8/2022 14:44	-.-
9/8/2022 14:45	-.-
9/8/2022 14:44	0.05
9/8/2022 14:45	-.-
9/8/2022 14:46	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 10:53	0.05
12/8/2022 10:54	-.-
12/8/2022 10:54	-.-
12/8/2022 10:54	0.05
12/8/2022 10:55	-.-
12/8/2022 10:55	-.-
12/8/2022 10:55	0.05
12/8/2022 10:56	-.-
12/8/2022 10:56	-.-
12/8/2022 10:56	0.05
12/8/2022 10:57	-.-
12/8/2022 10:57	-.-
12/8/2022 10:57	0.05
12/8/2022 10:58	-.-
12/8/2022 10:58	-.-
12/8/2022 10:58	0.05
12/8/2022 10:59	-.-
12/8/2022 10:59	-.-
12/8/2022 10:59	0.04
12/8/2022 11:00	-.-
12/8/2022 11:00	-.-
12/8/2022 11:00	0.05
12/8/2022 11:01	-.-
12/8/2022 11:01	-.-
12/8/2022 11:01	0.05
12/8/2022 11:02	-.-
12/8/2022 11:02	-.-
12/8/2022 11:02	0.05
12/8/2022 11:03	-.-
12/8/2022 11:03	-.-
12/8/2022 11:03	0.05
12/8/2022 11:04	-.-
12/8/2022 11:04	-.-
12/8/2022 11:04	0.04
12/8/2022 11:05	-.-
12/8/2022 11:05	-.-
12/8/2022 11:05	0.06
12/8/2022 11:06	-.-
12/8/2022 11:06	-.-
12/8/2022 11:06	0.15
12/8/2022 11:07	-.-
12/8/2022 11:07	-.-
12/8/2022 11:07	0.06

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 13:48	0.26
13/8/2022 13:49	-.-
13/8/2022 13:50	-.-
13/8/2022 13:49	0.09
13/8/2022 13:50	-.-
13/8/2022 13:51	-.-
13/8/2022 13:50	0.09
13/8/2022 13:51	-.-
13/8/2022 13:52	-.-
13/8/2022 13:51	0.06
13/8/2022 13:52	-.-
13/8/2022 13:53	-.-
13/8/2022 13:52	0.17
13/8/2022 13:53	-.-
13/8/2022 13:54	-.-
13/8/2022 13:53	0.07
13/8/2022 13:54	-.-
13/8/2022 13:55	-.-
13/8/2022 13:54	0.17
13/8/2022 13:55	-.-
13/8/2022 13:56	-.-
13/8/2022 13:55	0.06
13/8/2022 13:56	-.-
13/8/2022 13:57	-.-
13/8/2022 13:56	0.15
13/8/2022 13:57	-.-
13/8/2022 13:58	-.-
13/8/2022 13:57	0.06
13/8/2022 13:58	-.-
13/8/2022 13:59	-.-
13/8/2022 13:58	0.1
13/8/2022 13:59	-.-
13/8/2022 14:00	-.-
13/8/2022 13:59	0.16
13/8/2022 14:00	-.-
13/8/2022 14:01	-.-
13/8/2022 14:00	0.18
13/8/2022 14:01	-.-
13/8/2022 14:02	-.-
13/8/2022 14:01	0.33
13/8/2022 14:02	-.-
13/8/2022 14:03	-.-
13/8/2022 14:02	0.12

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 14:45	0.04
9/8/2022 14:46	-.-
9/8/2022 14:47	-.-
9/8/2022 14:46	0.04
9/8/2022 14:47	-.-
9/8/2022 14:48	-.-
9/8/2022 14:47	0.05
9/8/2022 14:48	-.-
9/8/2022 14:49	-.-
9/8/2022 14:48	0.05
9/8/2022 14:49	-.-
9/8/2022 14:50	-.-
9/8/2022 14:49	0.04
9/8/2022 14:50	-.-
9/8/2022 14:51	-.-
9/8/2022 14:50	0.04
9/8/2022 14:51	-.-
9/8/2022 14:52	-.-
9/8/2022 14:51	0.07
9/8/2022 14:52	-.-
9/8/2022 14:53	-.-
9/8/2022 14:52	0.04
9/8/2022 14:53	-.-
9/8/2022 14:54	-.-
9/8/2022 14:53	0.05
9/8/2022 14:54	-.-
9/8/2022 14:55	-.-
9/8/2022 14:54	0.05
9/8/2022 14:55	-.-
9/8/2022 14:56	-.-
9/8/2022 14:55	0.04
9/8/2022 14:56	-.-
9/8/2022 14:57	-.-
9/8/2022 14:56	0.05
9/8/2022 14:57	-.-
9/8/2022 14:58	-.-
9/8/2022 14:57	0.05
9/8/2022 14:58	-.-
9/8/2022 14:59	-.-
9/8/2022 14:58	0.04
9/8/2022 14:59	-.-
9/8/2022 15:00	-.-
9/8/2022 14:59	0.05

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 11:08	-.-
12/8/2022 11:08	-.-
12/8/2022 11:08	0.23
12/8/2022 11:09	-.-
12/8/2022 11:09	-.-
12/8/2022 11:09	0.21
12/8/2022 11:10	-.-
12/8/2022 11:10	-.-
12/8/2022 11:10	0.06
12/8/2022 11:11	-.-
12/8/2022 11:11	-.-
12/8/2022 11:11	1.01
12/8/2022 11:12	-.-
12/8/2022 11:12	-.-
12/8/2022 11:12	0.13
12/8/2022 11:13	-.-
12/8/2022 11:13	-.-
12/8/2022 11:13	0.09
12/8/2022 11:14	-.-
12/8/2022 11:14	-.-
12/8/2022 11:14	0.1
12/8/2022 11:15	-.-
12/8/2022 11:15	-.-
12/8/2022 11:15	0.08
12/8/2022 11:16	-.-
12/8/2022 11:16	-.-
12/8/2022 11:16	0.34
12/8/2022 11:17	-.-
12/8/2022 11:17	-.-
12/8/2022 11:17	0.08
12/8/2022 11:18	-.-
12/8/2022 11:18	-.-
12/8/2022 11:18	0.12
12/8/2022 11:19	-.-
12/8/2022 11:19	-.-
12/8/2022 11:19	0.14
12/8/2022 11:20	-.-
12/8/2022 11:20	-.-
12/8/2022 11:20	0.08
12/8/2022 11:21	-.-
12/8/2022 11:21	-.-
12/8/2022 11:21	0.05
12/8/2022 11:22	-.-

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 14:03	-.-
13/8/2022 14:04	-.-
13/8/2022 14:03	0.09
13/8/2022 14:04	-.-
13/8/2022 14:05	-.-
13/8/2022 14:04	0.11
13/8/2022 14:05	-.-
13/8/2022 14:06	-.-
13/8/2022 14:05	0.17
13/8/2022 14:06	-.-
13/8/2022 14:07	-.-
13/8/2022 14:06	0.26
13/8/2022 14:07	-.-
13/8/2022 14:08	-.-
13/8/2022 14:07	0.16
13/8/2022 14:08	-.-
13/8/2022 14:09	-.-
13/8/2022 14:08	0.17
13/8/2022 14:09	-.-
13/8/2022 14:10	-.-
13/8/2022 14:09	0.26
13/8/2022 14:10	-.-
13/8/2022 14:11	-.-
13/8/2022 14:10	0.2
13/8/2022 14:11	-.-
13/8/2022 14:12	-.-
13/8/2022 14:11	0.29
13/8/2022 14:12	-.-
13/8/2022 14:13	-.-
13/8/2022 14:12	0.14
13/8/2022 14:13	-.-
13/8/2022 14:14	-.-
13/8/2022 14:13	0.19
13/8/2022 14:14	-.-
13/8/2022 14:15	-.-
13/8/2022 14:14	0.06
13/8/2022 14:15	-.-
13/8/2022 14:16	-.-
13/8/2022 14:15	0.07
13/8/2022 14:16	-.-
13/8/2022 14:17	-.-
13/8/2022 14:16	0.29
13/8/2022 14:17	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 15:00	-.-
9/8/2022 15:01	-.-
9/8/2022 15:00	0.04
9/8/2022 15:01	-.-
9/8/2022 15:02	-.-
9/8/2022 15:01	0.05
9/8/2022 15:02	-.-
9/8/2022 15:03	-.-
9/8/2022 15:02	0.11
9/8/2022 15:03	-.-
9/8/2022 15:04	-.-
9/8/2022 15:03	0.07
9/8/2022 15:04	-.-
9/8/2022 15:05	-.-
9/8/2022 15:04	0.04
9/8/2022 15:05	-.-
9/8/2022 15:06	-.-
9/8/2022 15:05	0.04
9/8/2022 15:06	-.-
9/8/2022 15:07	-.-
9/8/2022 15:06	0.04
9/8/2022 15:07	-.-
9/8/2022 15:08	-.-
9/8/2022 15:07	0.05
9/8/2022 15:08	-.-
9/8/2022 15:09	-.-
9/8/2022 15:08	0.05
9/8/2022 15:09	-.-
9/8/2022 15:10	-.-
9/8/2022 15:09	0.05
9/8/2022 15:10	-.-
9/8/2022 15:11	-.-
9/8/2022 15:10	0.05
9/8/2022 15:11	-.-
9/8/2022 15:12	-.-
9/8/2022 15:11	0.04
9/8/2022 15:12	-.-
9/8/2022 15:13	-.-
9/8/2022 15:12	0.05
9/8/2022 15:13	-.-
9/8/2022 15:14	-.-
9/8/2022 15:13	0.05
9/8/2022 15:14	-.-

Vibration data Station V1 15-16 Aug 2022	
Date & Time	P.V.S (mm/s)

Vibration data Station V2 11-12 Aug 2022	
Date & Time	P.V.S (mm/s)
12/8/2022 11:22	-.-
12/8/2022 11:22	0.16
12/8/2022 11:23	-.-
12/8/2022 11:23	-.-
12/8/2022 11:23	0.09
12/8/2022 11:24	-.-
12/8/2022 11:24	-.-
12/8/2022 11:24	0.09
12/8/2022 11:25	-.-
12/8/2022 11:25	-.-
12/8/2022 11:25	0.08
12/8/2022 11:26	-.-
12/8/2022 11:26	-.-
12/8/2022 11:26	0.06
12/8/2022 11:27	-.-
12/8/2022 11:27	-.-
12/8/2022 11:27	0.08
12/8/2022 11:28	-.-
12/8/2022 11:28	-.-
12/8/2022 11:28	0.07
12/8/2022 11:29	-.-
12/8/2022 11:29	-.-
12/8/2022 11:29	0.05
12/8/2022 11:30	-.-
12/8/2022 11:30	-.-
12/8/2022 11:30	0.09
12/8/2022 11:31	-.-
12/8/2022 11:31	-.-
12/8/2022 11:31	0.37
12/8/2022 11:32	-.-
12/8/2022 11:32	-.-
12/8/2022 11:32	0.22
12/8/2022 11:33	-.-
12/8/2022 11:33	-.-
12/8/2022 11:33	0.06
12/8/2022 11:34	-.-
12/8/2022 11:34	-.-
12/8/2022 11:34	1.07
12/8/2022 11:35	-.-
12/8/2022 11:35	6.24

Vibration data Station V3 12-13 Aug 2022	
Date & Time	P.V.S (mm/s)
13/8/2022 14:18	-.-
13/8/2022 14:17	0.17
13/8/2022 14:18	-.-
13/8/2022 14:19	-.-
13/8/2022 14:18	0.2
13/8/2022 14:19	-.-
13/8/2022 14:20	-.-
13/8/2022 14:19	0.22
13/8/2022 14:20	-.-
13/8/2022 14:21	-.-
13/8/2022 14:20	0.26
13/8/2022 14:21	-.-
13/8/2022 14:22	-.-
13/8/2022 14:21	0.06
13/8/2022 14:22	-.-
13/8/2022 14:23	-.-
13/8/2022 14:22	0.17
13/8/2022 14:23	-.-
13/8/2022 14:24	-.-
13/8/2022 14:23	0.08
13/8/2022 14:24	-.-
13/8/2022 14:25	-.-
13/8/2022 14:24	0.21
13/8/2022 14:25	-.-
13/8/2022 14:26	-.-
13/8/2022 14:25	0.14
13/8/2022 14:26	-.-
13/8/2022 14:27	-.-
13/8/2022 14:26	0.24
13/8/2022 14:27	-.-
13/8/2022 14:28	-.-
13/8/2022 14:27	0.08
13/8/2022 14:28	-.-
13/8/2022 14:29	-.-
13/8/2022 14:28	0.06
13/8/2022 14:29	-.-
13/8/2022 14:30	-.-
13/8/2022 14:29	0.13
13/8/2022 14:30	-.-

Vibration data Station V4 8-9 Aug 2022	
Date & Time	P.V.S (mm/s)
9/8/2022 15:15	-.-
9/8/2022 15:14	0.06
9/8/2022 15:15	-.-
9/8/2022 15:16	-.-
9/8/2022 15:15	0.07
9/8/2022 15:16	-.-
9/8/2022 15:17	-.-
9/8/2022 15:16	0.06
9/8/2022 15:17	-.-
9/8/2022 15:18	-.-
9/8/2022 15:17	0.05
9/8/2022 15:18	-.-
9/8/2022 15:19	-.-
9/8/2022 15:18	0.04
9/8/2022 15:19	-.-
9/8/2022 15:20	-.-
9/8/2022 15:19	0.06
9/8/2022 15:20	-.-
9/8/2022 15:21	-.-
9/8/2022 15:20	0.06
9/8/2022 15:21	-.-
9/8/2022 15:22	-.-
9/8/2022 15:21	0.07
9/8/2022 15:22	-.-
9/8/2022 15:23	-.-
9/8/2022 15:22	0.09
9/8/2022 15:23	-.-
9/8/2022 15:24	-.-
9/8/2022 15:23	0.05
9/8/2022 15:24	-.-
9/8/2022 15:25	-.-
9/8/2022 15:24	0.05
9/8/2022 15:25	-.-
9/8/2022 15:26	-.-
9/8/2022 15:25	0.05
9/8/2022 15:26	-.-
9/8/2022 15:27	-.-
9/8/2022 15:26	0.08
9/8/2022 15:27	-.-
9/8/2022 15:28	-.-

Vibration data
Station V4
(continued)
8-9 Aug 2022

Date & Time	P.V.S (mm/s)
8/9/2022 15:26	0.08
8/9/2022 15:27	-.-
8/9/2022 15:28	-.-
8/9/2022 15:27	0.04
8/9/2022 15:28	-.-
8/9/2022 15:29	-.-
8/9/2022 15:28	0.04
8/9/2022 15:29	-.-
8/9/2022 15:30	-.-
8/9/2022 15:29	0.04
8/9/2022 15:30	-.-
8/9/2022 15:31	-.-
8/9/2022 15:30	0.05
8/9/2022 15:31	-.-
8/9/2022 15:32	-.-
8/9/2022 15:31	0.05
8/9/2022 15:32	-.-
8/9/2022 15:33	-.-
8/9/2022 15:32	0.05
8/9/2022 15:33	-.-
8/9/2022 15:34	-.-
8/9/2022 15:33	0.05
8/9/2022 15:34	-.-
8/9/2022 15:35	-.-
8/9/2022 15:34	0.04
8/9/2022 15:35	-.-
8/9/2022 15:36	-.-
8/9/2022 15:35	0.04
8/9/2022 15:36	-.-
8/9/2022 15:37	-.-
8/9/2022 15:36	0.04
8/9/2022 15:37	-.-
8/9/2022 15:38	-.-
8/9/2022 15:37	0.04
8/9/2022 15:38	-.-
8/9/2022 15:39	-.-
8/9/2022 15:38	0.05
8/9/2022 15:39	-.-
8/9/2022 15:40	-.-
8/9/2022 15:39	0.05
8/9/2022 15:40	-.-
8/9/2022 15:41	-.-
8/9/2022 15:40	0.04
8/9/2022 15:41	-.-
8/9/2022 15:42	-.-
8/9/2022 15:41	0.05
8/9/2022 15:42	-.-
8/9/2022 15:43	-.-
8/9/2022 15:42	0.04
8/9/2022 15:43	-.-
8/9/2022 15:44	-.-
8/9/2022 15:43	0.04
8/9/2022 15:44	-.-
8/9/2022 15:45	-.-
8/9/2022 15:44	0.05
8/9/2022 15:45	-.-
8/9/2022 15:46	-.-
8/9/2022 15:45	0.05
8/9/2022 15:46	-.-
8/9/2022 15:47	-.-
8/9/2022 15:46	0.05
8/9/2022 15:47	-.-
8/9/2022 15:48	-.-
8/9/2022 15:47	0.04
8/9/2022 15:48	-.-
8/9/2022 15:49	-.-
8/9/2022 15:48	0.04
8/9/2022 15:49	-.-
8/9/2022 15:50	-.-
8/9/2022 15:49	0.05
8/9/2022 15:50	-.-
8/9/2022 15:51	-.-
8/9/2022 15:50	0.06
8/9/2022 15:51	-.-
8/9/2022 15:52	-.-
8/9/2022 15:51	0.04
8/9/2022 15:52	-.-
8/9/2022 15:53	-.-
8/9/2022 15:52	0.05
8/9/2022 15:53	-.-
8/9/2022 15:54	-.-
8/9/2022 15:53	0.04
8/9/2022 15:54	-.-
8/9/2022 15:55	-.-
8/9/2022 15:54	0.04
8/9/2022 15:55	-.-
8/9/2022 15:56	-.-
8/9/2022 15:55	0.05
8/9/2022 15:56	-.-
8/9/2022 15:57	-.-
8/9/2022 15:56	0.06
8/9/2022 15:57	-.-
8/9/2022 15:58	-.-

8/9/2022 15:57	0.05	8/9/2022 16:05	0.05	8/9/2022 16:13	0.05	8/9/2022 16:21	0.05
8/9/2022 15:58	-.-	8/9/2022 16:06	-.-	8/9/2022 16:14	-.-	8/9/2022 16:22	-.-
8/9/2022 15:59	-.-	8/9/2022 16:07	-.-	8/9/2022 16:15	-.-	8/9/2022 16:23	-.-
8/9/2022 15:58	0.05	8/9/2022 16:06	0.04	8/9/2022 16:14	0.05	8/9/2022 16:22	0.05
8/9/2022 15:59	-.-	8/9/2022 16:07	-.-	8/9/2022 16:15	-.-	8/9/2022 16:23	-.-
8/9/2022 16:00	-.-	8/9/2022 16:08	-.-	8/9/2022 16:16	-.-	8/9/2022 16:24	-.-
8/9/2022 15:59	0.05	8/9/2022 16:07	0.05	8/9/2022 16:15	0.05	8/9/2022 16:23	0.05
8/9/2022 16:00	-.-	8/9/2022 16:08	-.-	8/9/2022 16:16	-.-	8/9/2022 16:24	-.-
8/9/2022 16:01	-.-	8/9/2022 16:09	-.-	8/9/2022 16:17	-.-	8/9/2022 16:25	-.-
8/9/2022 16:00	0.05	8/9/2022 16:08	0.05	8/9/2022 16:16	0.05	8/9/2022 16:24	0.05
8/9/2022 16:01	-.-	8/9/2022 16:09	-.-	8/9/2022 16:17	-.-	8/9/2022 16:25	-.-
8/9/2022 16:02	-.-	8/9/2022 16:10	-.-	8/9/2022 16:18	-.-	8/9/2022 16:26	-.-
8/9/2022 16:01	0.05	8/9/2022 16:09	0.05	8/9/2022 16:17	0.05	8/9/2022 16:25	0.06
8/9/2022 16:02	-.-	8/9/2022 16:10	-.-	8/9/2022 16:18	-.-	8/9/2022 16:26	-.-
8/9/2022 16:03	-.-	8/9/2022 16:11	-.-	8/9/2022 16:19	-.-	8/9/2022 16:27	-.-
8/9/2022 16:02	0.04	8/9/2022 16:10	0.07	8/9/2022 16:18	0.05	8/9/2022 16:26	0.05
8/9/2022 16:03	-.-	8/9/2022 16:11	-.-	8/9/2022 16:19	-.-	8/9/2022 16:27	-.-
8/9/2022 16:04	-.-	8/9/2022 16:12	-.-	8/9/2022 16:20	-.-	8/9/2022 16:28	-.-
8/9/2022 16:03	0.05	8/9/2022 16:11	0.04	8/9/2022 16:19	0.05	8/9/2022 16:27	0.05
8/9/2022 16:04	-.-	8/9/2022 16:12	-.-	8/9/2022 16:20	-.-	8/9/2022 16:28	-.-
8/9/2022 16:05	-.-	8/9/2022 16:13	-.-	8/9/2022 16:21	-.-	8/9/2022 16:29	-.-
8/9/2022 16:04	0.05	8/9/2022 16:12	0.04	8/9/2022 16:20	0.05	8/9/2022 16:28	0.04
8/9/2022 16:05	-.-	8/9/2022 16:13	-.-	8/9/2022 16:21	-.-	8/9/2022 16:29	-.-
8/9/2022 16:06	-.-	8/9/2022 16:14	-.-	8/9/2022 16:22	-.-	8/9/2022 16:30	-.-

8/9/2022 16:29	0.04	8/9/2022 16:37	0.04	8/9/2022 16:45	0.05	8/9/2022 16:53	0.05
8/9/2022 16:30	-.-	8/9/2022 16:38	-.-	8/9/2022 16:46	-.-	8/9/2022 16:54	-.-
8/9/2022 16:31	-.-	8/9/2022 16:39	-.-	8/9/2022 16:47	-.-	8/9/2022 16:55	-.-
8/9/2022 16:30	0.05	8/9/2022 16:38	0.04	8/9/2022 16:46	0.04	8/9/2022 16:54	0.04
8/9/2022 16:31	-.-	8/9/2022 16:39	-.-	8/9/2022 16:47	-.-	8/9/2022 16:55	-.-
8/9/2022 16:32	-.-	8/9/2022 16:40	-.-	8/9/2022 16:48	-.-	8/9/2022 16:56	-.-
8/9/2022 16:31	0.05	8/9/2022 16:39	0.05	8/9/2022 16:47	0.05	8/9/2022 16:55	0.05
8/9/2022 16:32	-.-	8/9/2022 16:40	-.-	8/9/2022 16:48	-.-	8/9/2022 16:56	-.-
8/9/2022 16:33	-.-	8/9/2022 16:41	-.-	8/9/2022 16:49	-.-	8/9/2022 16:57	-.-
8/9/2022 16:32	0.05	8/9/2022 16:40	0.04	8/9/2022 16:48	0.05	8/9/2022 16:56	0.06
8/9/2022 16:33	-.-	8/9/2022 16:41	-.-	8/9/2022 16:49	-.-	8/9/2022 16:57	-.-
8/9/2022 16:34	-.-	8/9/2022 16:42	-.-	8/9/2022 16:50	-.-	8/9/2022 16:58	-.-
8/9/2022 16:33	0.05	8/9/2022 16:41	0.04	8/9/2022 16:49	0.05	8/9/2022 16:57	0.05
8/9/2022 16:34	-.-	8/9/2022 16:42	-.-	8/9/2022 16:50	-.-	8/9/2022 16:58	-.-
8/9/2022 16:35	-.-	8/9/2022 16:43	-.-	8/9/2022 16:51	-.-	8/9/2022 16:59	-.-
8/9/2022 16:34	0.05	8/9/2022 16:42	0.04	8/9/2022 16:50	0.05	8/9/2022 16:58	0.04
8/9/2022 16:35	-.-	8/9/2022 16:43	-.-	8/9/2022 16:51	-.-	8/9/2022 16:59	-.-
8/9/2022 16:36	-.-	8/9/2022 16:44	-.-	8/9/2022 16:52	-.-	8/9/2022 17:00	-.-
8/9/2022 16:35	0.05	8/9/2022 16:43	0.05	8/9/2022 16:51	0.04	8/9/2022 16:59	0.05
8/9/2022 16:36	-.-	8/9/2022 16:44	-.-	8/9/2022 16:52	-.-	8/9/2022 17:00	-.-
8/9/2022 16:37	-.-	8/9/2022 16:45	-.-	8/9/2022 16:53	-.-	8/9/2022 17:01	-.-
8/9/2022 16:36	0.05	8/9/2022 16:44	0.05	8/9/2022 16:52	0.05	8/9/2022 17:00	0.05
8/9/2022 16:37	-.-	8/9/2022 16:45	-.-	8/9/2022 16:53	-.-	8/9/2022 17:01	-.-
8/9/2022 16:38	-.-	8/9/2022 16:46	-.-	8/9/2022 16:54	-.-	8/9/2022 17:02	-.-

8/9/2022 17:01	0.06	8/9/2022 17:09	0.05	8/9/2022 17:17	0.05	8/9/2022 17:25	0.05
8/9/2022 17:02	-.-	8/9/2022 17:10	-.-	8/9/2022 17:18	-.-	8/9/2022 17:26	-.-
8/9/2022 17:03	-.-	8/9/2022 17:11	-.-	8/9/2022 17:19	-.-	8/9/2022 17:27	-.-
8/9/2022 17:02	0.15	8/9/2022 17:10	0.05	8/9/2022 17:18	0.05	8/9/2022 17:26	0.06
8/9/2022 17:03	-.-	8/9/2022 17:11	-.-	8/9/2022 17:19	-.-	8/9/2022 17:27	-.-
8/9/2022 17:04	-.-	8/9/2022 17:12	-.-	8/9/2022 17:20	-.-	8/9/2022 17:28	-.-
8/9/2022 17:03	0.12	8/9/2022 17:11	0.05	8/9/2022 17:19	0.04	8/9/2022 17:27	0.05
8/9/2022 17:04	-.-	8/9/2022 17:12	-.-	8/9/2022 17:20	-.-	8/9/2022 17:28	-.-
8/9/2022 17:05	-.-	8/9/2022 17:13	-.-	8/9/2022 17:21	-.-	8/9/2022 17:29	-.-
8/9/2022 17:04	0.06	8/9/2022 17:12	0.04	8/9/2022 17:20	0.05	8/9/2022 17:28	0.04
8/9/2022 17:05	-.-	8/9/2022 17:13	-.-	8/9/2022 17:21	-.-	8/9/2022 17:29	-.-
8/9/2022 17:06	-.-	8/9/2022 17:14	-.-	8/9/2022 17:22	-.-	8/9/2022 17:30	-.-
8/9/2022 17:05	0.05	8/9/2022 17:13	0.05	8/9/2022 17:21	0.05	8/9/2022 17:29	0.05
8/9/2022 17:06	-.-	8/9/2022 17:14	-.-	8/9/2022 17:22	-.-	8/9/2022 17:30	-.-
8/9/2022 17:07	-.-	8/9/2022 17:15	-.-	8/9/2022 17:23	-.-	8/9/2022 17:31	-.-
8/9/2022 17:06	0.05	8/9/2022 17:14	0.05	8/9/2022 17:22	0.06	8/9/2022 17:30	0.06
8/9/2022 17:07	-.-	8/9/2022 17:15	-.-	8/9/2022 17:23	-.-	8/9/2022 17:31	-.-
8/9/2022 17:08	-.-	8/9/2022 17:16	-.-	8/9/2022 17:24	-.-	8/9/2022 17:32	-.-
8/9/2022 17:07	0.05	8/9/2022 17:15	0.05	8/9/2022 17:23	0.06	8/9/2022 17:31	0.06
8/9/2022 17:08	-.-	8/9/2022 17:16	-.-	8/9/2022 17:24	-.-	8/9/2022 17:32	-.-
8/9/2022 17:09	-.-	8/9/2022 17:17	-.-	8/9/2022 17:25	-.-	8/9/2022 17:33	-.-
8/9/2022 17:08	0.05	8/9/2022 17:16	0.05	8/9/2022 17:24	0.05	8/9/2022 17:32	0.05
8/9/2022 17:09	-.-	8/9/2022 17:17	-.-	8/9/2022 17:25	-.-	8/9/2022 17:33	-.-
8/9/2022 17:10	-.-	8/9/2022 17:18	-.-	8/9/2022 17:26	-.-	8/9/2022 17:34	-.-

8/9/2022 17:33	0.05	8/9/2022 17:41	0.05	8/9/2022 17:49	0.05	8/9/2022 17:57	0.15
8/9/2022 17:34	-.-	8/9/2022 17:42	-.-	8/9/2022 17:50	-.-	8/9/2022 17:58	-.-
8/9/2022 17:35	-.-	8/9/2022 17:43	-.-	8/9/2022 17:51	-.-	8/9/2022 17:59	-.-
8/9/2022 17:34	0.05	8/9/2022 17:42	0.05	8/9/2022 17:50	0.05	8/9/2022 17:58	0.12
8/9/2022 17:35	-.-	8/9/2022 17:43	-.-	8/9/2022 17:51	-.-	8/9/2022 17:59	-.-
8/9/2022 17:36	-.-	8/9/2022 17:44	-.-	8/9/2022 17:52	-.-	8/9/2022 18:00	-.-
8/9/2022 17:35	0.05	8/9/2022 17:43	0.04	8/9/2022 17:51	0.06	8/9/2022 17:59	0.06
8/9/2022 17:36	-.-	8/9/2022 17:44	-.-	8/9/2022 17:52	-.-	8/9/2022 18:00	-.-
8/9/2022 17:37	-.-	8/9/2022 17:45	-.-	8/9/2022 17:53	-.-	8/9/2022 18:01	-.-
8/9/2022 17:36	0.05	8/9/2022 17:44	0.05	8/9/2022 17:52	0.07	8/9/2022 18:00	0.07
8/9/2022 17:37	-.-	8/9/2022 17:45	-.-	8/9/2022 17:53	-.-	8/9/2022 18:01	-.-
8/9/2022 17:38	-.-	8/9/2022 17:46	-.-	8/9/2022 17:54	-.-	8/9/2022 18:02	-.-
8/9/2022 17:37	0.05	8/9/2022 17:45	0.05	8/9/2022 17:53	0.07	8/9/2022 18:01	0.15
8/9/2022 17:38	-.-	8/9/2022 17:46	-.-	8/9/2022 17:54	-.-	8/9/2022 18:02	-.-
8/9/2022 17:39	-.-	8/9/2022 17:47	-.-	8/9/2022 17:55	-.-	8/9/2022 18:03	-.-
8/9/2022 17:38	0.05	8/9/2022 17:46	0.05	8/9/2022 17:54	0.06	8/9/2022 18:02	0.05
8/9/2022 17:39	-.-	8/9/2022 17:47	-.-	8/9/2022 17:55	-.-	8/9/2022 18:03	-.-
8/9/2022 17:40	-.-	8/9/2022 17:48	-.-	8/9/2022 17:56	-.-	8/9/2022 18:04	-.-
8/9/2022 17:39	0.06	8/9/2022 17:47	0.06	8/9/2022 17:55	0.05	8/9/2022 18:03	0.05
8/9/2022 17:40	-.-	8/9/2022 17:48	-.-	8/9/2022 17:56	-.-	8/9/2022 18:04	-.-
8/9/2022 17:41	-.-	8/9/2022 17:49	-.-	8/9/2022 17:57	-.-	8/9/2022 18:05	-.-
8/9/2022 17:40	0.05	8/9/2022 17:48	0.05	8/9/2022 17:56	0.07	8/9/2022 18:04	0.12
8/9/2022 17:41	-.-	8/9/2022 17:49	-.-	8/9/2022 17:57	-.-	8/9/2022 18:05	-.-
8/9/2022 17:42	-.-	8/9/2022 17:50	-.-	8/9/2022 17:58	-.-	8/9/2022 18:06	-.-

8/9/2022 18:05	0.05	8/9/2022 18:13	0.06	8/9/2022 18:21	0.04	8/9/2022 18:29	0.05
8/9/2022 18:06	-.-	8/9/2022 18:14	-.-	8/9/2022 18:22	-.-	8/9/2022 18:30	-.-
8/9/2022 18:07	-.-	8/9/2022 18:15	-.-	8/9/2022 18:23	-.-	8/9/2022 18:31	-.-
8/9/2022 18:06	0.06	8/9/2022 18:14	0.05	8/9/2022 18:22	0.05	8/9/2022 18:30	0.05
8/9/2022 18:07	-.-	8/9/2022 18:15	-.-	8/9/2022 18:23	-.-	8/9/2022 18:31	-.-
8/9/2022 18:08	-.-	8/9/2022 18:16	-.-	8/9/2022 18:24	-.-	8/9/2022 18:32	-.-
8/9/2022 18:07	0.05	8/9/2022 18:15	0.04	8/9/2022 18:23	0.05	8/9/2022 18:31	0.05
8/9/2022 18:08	-.-	8/9/2022 18:16	-.-	8/9/2022 18:24	-.-	8/9/2022 18:32	-.-
8/9/2022 18:09	-.-	8/9/2022 18:17	-.-	8/9/2022 18:25	-.-	8/9/2022 18:33	-.-
8/9/2022 18:08	0.04	8/9/2022 18:16	0.05	8/9/2022 18:24	0.04	8/9/2022 18:32	0.05
8/9/2022 18:09	-.-	8/9/2022 18:17	-.-	8/9/2022 18:25	-.-	8/9/2022 18:33	-.-
8/9/2022 18:10	-.-	8/9/2022 18:18	-.-	8/9/2022 18:26	-.-	8/9/2022 18:34	-.-
8/9/2022 18:09	0.05	8/9/2022 18:17	0.04	8/9/2022 18:25	0.06	8/9/2022 18:33	0.05
8/9/2022 18:10	-.-	8/9/2022 18:18	-.-	8/9/2022 18:26	-.-	8/9/2022 18:34	-.-
8/9/2022 18:11	-.-	8/9/2022 18:19	-.-	8/9/2022 18:27	-.-	8/9/2022 18:35	-.-
8/9/2022 18:10	0.04	8/9/2022 18:18	0.05	8/9/2022 18:26	0.04	8/9/2022 18:34	0.04
8/9/2022 18:11	-.-	8/9/2022 18:19	-.-	8/9/2022 18:27	-.-	8/9/2022 18:35	-.-
8/9/2022 18:12	-.-	8/9/2022 18:20	-.-	8/9/2022 18:28	-.-	8/9/2022 18:36	-.-
8/9/2022 18:11	0.04	8/9/2022 18:19	0.05	8/9/2022 18:27	0.05	8/9/2022 18:35	0.05
8/9/2022 18:12	-.-	8/9/2022 18:20	-.-	8/9/2022 18:28	-.-	8/9/2022 18:36	-.-
8/9/2022 18:13	-.-	8/9/2022 18:21	-.-	8/9/2022 18:29	-.-	8/9/2022 18:37	-.-
8/9/2022 18:12	0.04	8/9/2022 18:20	0.05	8/9/2022 18:28	0.05	8/9/2022 18:36	0.06
8/9/2022 18:13	-.-	8/9/2022 18:21	-.-	8/9/2022 18:29	-.-	8/9/2022 18:37	-.-
8/9/2022 18:14	-.-	8/9/2022 18:22	-.-	8/9/2022 18:30	-.-	8/9/2022 18:38	-.-

8/9/2022 18:37	0.04	8/9/2022 18:45	0.04	8/9/2022 18:53	0.05	8/9/2022 19:01	0.05
8/9/2022 18:38	-.-	8/9/2022 18:46	-.-	8/9/2022 18:54	-.-	8/9/2022 19:02	-.-
8/9/2022 18:39	-.-	8/9/2022 18:47	-.-	8/9/2022 18:55	-.-	8/9/2022 19:03	-.-
8/9/2022 18:38	0.04	8/9/2022 18:46	0.08	8/9/2022 18:54	0.04	8/9/2022 19:02	0.05
8/9/2022 18:39	-.-	8/9/2022 18:47	-.-	8/9/2022 18:55	-.-	8/9/2022 19:03	-.-
8/9/2022 18:40	-.-	8/9/2022 18:48	-.-	8/9/2022 18:56	-.-	8/9/2022 19:04	-.-
8/9/2022 18:39	0.05	8/9/2022 18:47	0.04	8/9/2022 18:55	0.04	8/9/2022 19:03	0.05
8/9/2022 18:40	-.-	8/9/2022 18:48	-.-	8/9/2022 18:56	-.-	8/9/2022 19:04	-.-
8/9/2022 18:41	-.-	8/9/2022 18:49	-.-	8/9/2022 18:57	-.-	8/9/2022 19:05	-.-
8/9/2022 18:40	0.06	8/9/2022 18:48	0.05	8/9/2022 18:56	0.05	8/9/2022 19:04	0.04
8/9/2022 18:41	-.-	8/9/2022 18:49	-.-	8/9/2022 18:57	-.-	8/9/2022 19:05	-.-
8/9/2022 18:42	-.-	8/9/2022 18:50	-.-	8/9/2022 18:58	-.-	8/9/2022 19:06	-.-
8/9/2022 18:41	0.04	8/9/2022 18:49	0.05	8/9/2022 18:57	0.05	8/9/2022 19:05	0.05
8/9/2022 18:42	-.-	8/9/2022 18:50	-.-	8/9/2022 18:58	-.-	8/9/2022 19:06	-.-
8/9/2022 18:43	-.-	8/9/2022 18:51	-.-	8/9/2022 18:59	-.-	8/9/2022 19:07	-.-
8/9/2022 18:42	0.05	8/9/2022 18:50	0.05	8/9/2022 18:58	0.04	8/9/2022 19:06	0.05
8/9/2022 18:43	-.-	8/9/2022 18:51	-.-	8/9/2022 18:59	-.-	8/9/2022 19:07	-.-
8/9/2022 18:44	-.-	8/9/2022 18:52	-.-	8/9/2022 19:00	-.-	8/9/2022 19:08	-.-
8/9/2022 18:43	0.04	8/9/2022 18:51	0.05	8/9/2022 18:59	0.04	8/9/2022 19:07	0.05
8/9/2022 18:44	-.-	8/9/2022 18:52	-.-	8/9/2022 19:00	-.-	8/9/2022 19:08	-.-
8/9/2022 18:45	-.-	8/9/2022 18:53	-.-	8/9/2022 19:01	-.-	8/9/2022 19:09	-.-
8/9/2022 18:44	0.05	8/9/2022 18:52	0.05	8/9/2022 19:00	0.05	8/9/2022 19:08	0.08
8/9/2022 18:45	-.-	8/9/2022 18:53	-.-	8/9/2022 19:01	-.-	8/9/2022 19:09	-.-
8/9/2022 18:46	-.-	8/9/2022 18:54	-.-	8/9/2022 19:02	-.-	8/9/2022 19:10	-.-

8/9/2022 19:09	0.05	8/9/2022 19:17	0.04	8/9/2022 19:25	0.04	8/9/2022 19:33	0.04
8/9/2022 19:10	-.-	8/9/2022 19:18	-.-	8/9/2022 19:26	-.-	8/9/2022 19:34	-.-
8/9/2022 19:11	-.-	8/9/2022 19:19	-.-	8/9/2022 19:27	-.-	8/9/2022 19:35	-.-
8/9/2022 19:10	0.04	8/9/2022 19:18	0.04	8/9/2022 19:26	0.06	8/9/2022 19:34	0.05
8/9/2022 19:11	-.-	8/9/2022 19:19	-.-	8/9/2022 19:27	-.-	8/9/2022 19:35	-.-
8/9/2022 19:12	-.-	8/9/2022 19:20	-.-	8/9/2022 19:28	-.-	8/9/2022 19:36	-.-
8/9/2022 19:11	0.06	8/9/2022 19:19	0.05	8/9/2022 19:27	0.05	8/9/2022 19:35	0.05
8/9/2022 19:12	-.-	8/9/2022 19:20	-.-	8/9/2022 19:28	-.-	8/9/2022 19:36	-.-
8/9/2022 19:13	-.-	8/9/2022 19:21	-.-	8/9/2022 19:29	-.-	8/9/2022 19:37	-.-
8/9/2022 19:12	0.04	8/9/2022 19:20	0.05	8/9/2022 19:28	0.04	8/9/2022 19:36	0.04
8/9/2022 19:13	-.-	8/9/2022 19:21	-.-	8/9/2022 19:29	-.-	8/9/2022 19:37	-.-
8/9/2022 19:14	-.-	8/9/2022 19:22	-.-	8/9/2022 19:30	-.-	8/9/2022 19:38	-.-
8/9/2022 19:13	0.05	8/9/2022 19:21	0.05	8/9/2022 19:29	0.04	8/9/2022 19:37	0.04
8/9/2022 19:14	-.-	8/9/2022 19:22	-.-	8/9/2022 19:30	-.-	8/9/2022 19:38	-.-
8/9/2022 19:15	-.-	8/9/2022 19:23	-.-	8/9/2022 19:31	-.-	8/9/2022 19:39	-.-
8/9/2022 19:14	0.04	8/9/2022 19:22	0.04	8/9/2022 19:30	0.05	8/9/2022 19:38	0.05
8/9/2022 19:15	-.-	8/9/2022 19:23	-.-	8/9/2022 19:31	-.-	8/9/2022 19:39	-.-
8/9/2022 19:16	-.-	8/9/2022 19:24	-.-	8/9/2022 19:32	-.-	8/9/2022 19:40	-.-
8/9/2022 19:15	0.05	8/9/2022 19:23	0.04	8/9/2022 19:31	0.05	8/9/2022 19:39	0.04
8/9/2022 19:16	-.-	8/9/2022 19:24	-.-	8/9/2022 19:32	-.-	8/9/2022 19:40	-.-
8/9/2022 19:17	-.-	8/9/2022 19:25	-.-	8/9/2022 19:33	-.-	8/9/2022 19:41	-.-
8/9/2022 19:16	0.05	8/9/2022 19:24	0.05	8/9/2022 19:32	0.04	8/9/2022 19:40	0.05
8/9/2022 19:17	-.-	8/9/2022 19:25	-.-	8/9/2022 19:33	-.-	8/9/2022 19:41	-.-
8/9/2022 19:18	-.-	8/9/2022 19:26	-.-	8/9/2022 19:34	-.-	8/9/2022 19:42	-.-

8/9/2022 19:41	0.04	8/9/2022 19:49	0.04	8/9/2022 19:57	0.05	8/9/2022 20:05	0.04
8/9/2022 19:42	-.-	8/9/2022 19:50	-.-	8/9/2022 19:58	-.-	8/9/2022 20:06	-.-
8/9/2022 19:43	-.-	8/9/2022 19:51	-.-	8/9/2022 19:59	-.-	8/9/2022 20:07	-.-
8/9/2022 19:42	0.04	8/9/2022 19:50	0.05	8/9/2022 19:58	0.05	8/9/2022 20:06	0.04
8/9/2022 19:43	-.-	8/9/2022 19:51	-.-	8/9/2022 19:59	-.-	8/9/2022 20:07	-.-
8/9/2022 19:44	-.-	8/9/2022 19:52	-.-	8/9/2022 20:00	-.-	8/9/2022 20:08	-.-
8/9/2022 19:43	0.06	8/9/2022 19:51	0.05	8/9/2022 19:59	0.04	8/9/2022 20:07	0.04
8/9/2022 19:44	-.-	8/9/2022 19:52	-.-	8/9/2022 20:00	-.-	8/9/2022 20:08	-.-
8/9/2022 19:45	-.-	8/9/2022 19:53	-.-	8/9/2022 20:01	-.-	8/9/2022 20:09	-.-
8/9/2022 19:44	0.04	8/9/2022 19:52	0.04	8/9/2022 20:00	0.04	8/9/2022 20:08	0.05
8/9/2022 19:45	-.-	8/9/2022 19:53	-.-	8/9/2022 20:01	-.-	8/9/2022 20:09	-.-
8/9/2022 19:46	-.-	8/9/2022 19:54	-.-	8/9/2022 20:02	-.-	8/9/2022 20:10	-.-
8/9/2022 19:45	0.05	8/9/2022 19:53	0.04	8/9/2022 20:01	0.04	8/9/2022 20:09	0.05
8/9/2022 19:46	-.-	8/9/2022 19:54	-.-	8/9/2022 20:02	-.-	8/9/2022 20:10	-.-
8/9/2022 19:47	-.-	8/9/2022 19:55	-.-	8/9/2022 20:03	-.-	8/9/2022 20:11	-.-
8/9/2022 19:46	0.05	8/9/2022 19:54	0.05	8/9/2022 20:02	0.04	8/9/2022 20:10	0.04
8/9/2022 19:47	-.-	8/9/2022 19:55	-.-	8/9/2022 20:03	-.-	8/9/2022 20:11	-.-
8/9/2022 19:48	-.-	8/9/2022 19:56	-.-	8/9/2022 20:04	-.-	8/9/2022 20:12	-.-
8/9/2022 19:47	0.05	8/9/2022 19:55	0.04	8/9/2022 20:03	0.04	8/9/2022 20:11	0.04
8/9/2022 19:48	-.-	8/9/2022 19:56	-.-	8/9/2022 20:04	-.-	8/9/2022 20:12	-.-
8/9/2022 19:49	-.-	8/9/2022 19:57	-.-	8/9/2022 20:05	-.-	8/9/2022 20:13	-.-
8/9/2022 19:48	0.04	8/9/2022 19:56	0.04	8/9/2022 20:04	0.05	8/9/2022 20:12	0.05
8/9/2022 19:49	-.-	8/9/2022 19:57	-.-	8/9/2022 20:05	-.-	8/9/2022 20:13	-.-
8/9/2022 19:50	-.-	8/9/2022 19:58	-.-	8/9/2022 20:06	-.-	8/9/2022 20:14	-.-

8/9/2022 20:13	0.05	8/9/2022 20:21	0.05	8/9/2022 20:29	0.05	8/9/2022 20:37	0.05
8/9/2022 20:14	-.-	8/9/2022 20:22	-.-	8/9/2022 20:30	-.-	8/9/2022 20:38	-.-
8/9/2022 20:15	-.-	8/9/2022 20:23	-.-	8/9/2022 20:31	-.-	8/9/2022 20:39	-.-
8/9/2022 20:14	0.04	8/9/2022 20:22	0.04	8/9/2022 20:30	0.04	8/9/2022 20:38	0.04
8/9/2022 20:15	-.-	8/9/2022 20:23	-.-	8/9/2022 20:31	-.-	8/9/2022 20:39	-.-
8/9/2022 20:16	-.-	8/9/2022 20:24	-.-	8/9/2022 20:32	-.-	8/9/2022 20:40	-.-
8/9/2022 20:15	0.04	8/9/2022 20:23	0.07	8/9/2022 20:31	0.05	8/9/2022 20:39	0.05
8/9/2022 20:16	-.-	8/9/2022 20:24	-.-	8/9/2022 20:32	-.-	8/9/2022 20:40	-.-
8/9/2022 20:17	-.-	8/9/2022 20:25	-.-	8/9/2022 20:33	-.-	8/9/2022 20:41	-.-
8/9/2022 20:16	0.05	8/9/2022 20:24	0.04	8/9/2022 20:32	0.04	8/9/2022 20:40	0.04
8/9/2022 20:17	-.-	8/9/2022 20:25	-.-	8/9/2022 20:33	-.-	8/9/2022 20:41	-.-
8/9/2022 20:18	-.-	8/9/2022 20:26	-.-	8/9/2022 20:34	-.-	8/9/2022 20:42	-.-
8/9/2022 20:17	0.04	8/9/2022 20:25	0.05	8/9/2022 20:33	0.04	8/9/2022 20:41	0.04
8/9/2022 20:18	-.-	8/9/2022 20:26	-.-	8/9/2022 20:34	-.-	8/9/2022 20:42	-.-
8/9/2022 20:19	-.-	8/9/2022 20:27	-.-	8/9/2022 20:35	-.-	8/9/2022 20:43	-.-
8/9/2022 20:18	0.04	8/9/2022 20:26	0.04	8/9/2022 20:34	0.04	8/9/2022 20:42	0.04
8/9/2022 20:19	-.-	8/9/2022 20:27	-.-	8/9/2022 20:35	-.-	8/9/2022 20:43	-.-
8/9/2022 20:20	-.-	8/9/2022 20:28	-.-	8/9/2022 20:36	-.-	8/9/2022 20:44	-.-
8/9/2022 20:19	0.05	8/9/2022 20:27	0.04	8/9/2022 20:35	0.04	8/9/2022 20:43	0.04
8/9/2022 20:20	-.-	8/9/2022 20:28	-.-	8/9/2022 20:36	-.-	8/9/2022 20:44	-.-
8/9/2022 20:21	-.-	8/9/2022 20:29	-.-	8/9/2022 20:37	-.-	8/9/2022 20:45	-.-
8/9/2022 20:20	0.04	8/9/2022 20:28	0.04	8/9/2022 20:36	0.05	8/9/2022 20:44	0.04
8/9/2022 20:21	-.-	8/9/2022 20:29	-.-	8/9/2022 20:37	-.-	8/9/2022 20:45	-.-
8/9/2022 20:22	-.-	8/9/2022 20:30	-.-	8/9/2022 20:38	-.-	8/9/2022 20:46	-.-

8/9/2022 20:45	0.05	8/9/2022 20:53	0.04	8/9/2022 21:01	0.04	8/9/2022 21:09	0.04
8/9/2022 20:46	-.-	8/9/2022 20:54	-.-	8/9/2022 21:02	-.-	8/9/2022 21:10	-.-
8/9/2022 20:47	-.-	8/9/2022 20:55	-.-	8/9/2022 21:03	-.-	8/9/2022 21:11	-.-
8/9/2022 20:46	0.04	8/9/2022 20:54	0.05	8/9/2022 21:02	0.04	8/9/2022 21:10	0.05
8/9/2022 20:47	-.-	8/9/2022 20:55	-.-	8/9/2022 21:03	-.-	8/9/2022 21:11	-.-
8/9/2022 20:48	-.-	8/9/2022 20:56	-.-	8/9/2022 21:04	-.-	8/9/2022 21:12	-.-
8/9/2022 20:47	0.04	8/9/2022 20:55	0.05	8/9/2022 21:03	0.04	8/9/2022 21:11	0.04
8/9/2022 20:48	-.-	8/9/2022 20:56	-.-	8/9/2022 21:04	-.-	8/9/2022 21:12	-.-
8/9/2022 20:49	-.-	8/9/2022 20:57	-.-	8/9/2022 21:05	-.-	8/9/2022 21:13	-.-
8/9/2022 20:48	0.05	8/9/2022 20:56	0.04	8/9/2022 21:04	0.05	8/9/2022 21:12	0.05
8/9/2022 20:49	-.-	8/9/2022 20:57	-.-	8/9/2022 21:05	-.-	8/9/2022 21:13	-.-
8/9/2022 20:50	-.-	8/9/2022 20:58	-.-	8/9/2022 21:06	-.-	8/9/2022 21:14	-.-
8/9/2022 20:49	0.05	8/9/2022 20:57	0.05	8/9/2022 21:05	0.05	8/9/2022 21:13	0.05
8/9/2022 20:50	-.-	8/9/2022 20:58	-.-	8/9/2022 21:06	-.-	8/9/2022 21:14	-.-
8/9/2022 20:51	-.-	8/9/2022 20:59	-.-	8/9/2022 21:07	-.-	8/9/2022 21:15	-.-
8/9/2022 20:50	0.05	8/9/2022 20:58	0.05	8/9/2022 21:06	0.05	8/9/2022 21:14	0.05
8/9/2022 20:51	-.-	8/9/2022 20:59	-.-	8/9/2022 21:07	-.-	8/9/2022 21:15	-.-
8/9/2022 20:52	-.-	8/9/2022 21:00	-.-	8/9/2022 21:08	-.-	8/9/2022 21:16	-.-
8/9/2022 20:51	0.05	8/9/2022 20:59	0.04	8/9/2022 21:07	0.04	8/9/2022 21:15	0.04
8/9/2022 20:52	-.-	8/9/2022 21:00	-.-	8/9/2022 21:08	-.-	8/9/2022 21:16	-.-
8/9/2022 20:53	-.-	8/9/2022 21:01	-.-	8/9/2022 21:09	-.-	8/9/2022 21:17	-.-
8/9/2022 20:52	0.05	8/9/2022 21:00	0.04	8/9/2022 21:08	0.04	8/9/2022 21:16	0.05
8/9/2022 20:53	-.-	8/9/2022 21:01	-.-	8/9/2022 21:09	-.-	8/9/2022 21:17	-.-
8/9/2022 20:54	-.-	8/9/2022 21:02	-.-	8/9/2022 21:10	-.-	8/9/2022 21:18	-.-

8/9/2022 21:17	0.05	8/9/2022 21:25	0.04	8/9/2022 21:33	0.04	8/9/2022 21:41	0.04
8/9/2022 21:18	-.-	8/9/2022 21:26	-.-	8/9/2022 21:34	-.-	8/9/2022 21:42	-.-
8/9/2022 21:19	-.-	8/9/2022 21:27	-.-	8/9/2022 21:35	-.-	8/9/2022 21:43	-.-
8/9/2022 21:18	0.04	8/9/2022 21:26	0.04	8/9/2022 21:34	0.04	8/9/2022 21:42	0.06
8/9/2022 21:19	-.-	8/9/2022 21:27	-.-	8/9/2022 21:35	-.-	8/9/2022 21:43	-.-
8/9/2022 21:20	-.-	8/9/2022 21:28	-.-	8/9/2022 21:36	-.-	8/9/2022 21:44	-.-
8/9/2022 21:19	0.04	8/9/2022 21:27	0.04	8/9/2022 21:35	0.05	8/9/2022 21:43	0.06
8/9/2022 21:20	-.-	8/9/2022 21:28	-.-	8/9/2022 21:36	-.-	8/9/2022 21:44	-.-
8/9/2022 21:21	-.-	8/9/2022 21:29	-.-	8/9/2022 21:37	-.-	8/9/2022 21:45	-.-
8/9/2022 21:20	0.04	8/9/2022 21:28	0.04	8/9/2022 21:36	0.04	8/9/2022 21:44	0.07
8/9/2022 21:21	-.-	8/9/2022 21:29	-.-	8/9/2022 21:37	-.-	8/9/2022 21:45	-.-
8/9/2022 21:22	-.-	8/9/2022 21:30	-.-	8/9/2022 21:38	-.-	8/9/2022 21:46	-.-
8/9/2022 21:21	0.04	8/9/2022 21:29	0.05	8/9/2022 21:37	0.05	8/9/2022 21:45	0.04
8/9/2022 21:22	-.-	8/9/2022 21:30	-.-	8/9/2022 21:38	-.-	8/9/2022 21:46	-.-
8/9/2022 21:23	-.-	8/9/2022 21:31	-.-	8/9/2022 21:39	-.-	8/9/2022 21:47	-.-
8/9/2022 21:22	0.04	8/9/2022 21:30	0.04	8/9/2022 21:38	0.04	8/9/2022 21:46	0.05
8/9/2022 21:23	-.-	8/9/2022 21:31	-.-	8/9/2022 21:39	-.-	8/9/2022 21:47	-.-
8/9/2022 21:24	-.-	8/9/2022 21:32	-.-	8/9/2022 21:40	-.-	8/9/2022 21:48	-.-
8/9/2022 21:23	0.04	8/9/2022 21:31	0.05	8/9/2022 21:39	0.06	8/9/2022 21:47	0.04
8/9/2022 21:24	-.-	8/9/2022 21:32	-.-	8/9/2022 21:40	-.-	8/9/2022 21:48	-.-
8/9/2022 21:25	-.-	8/9/2022 21:33	-.-	8/9/2022 21:41	-.-	8/9/2022 21:49	-.-
8/9/2022 21:24	0.04	8/9/2022 21:32	0.04	8/9/2022 21:40	0.04	8/9/2022 21:48	0.07
8/9/2022 21:25	-.-	8/9/2022 21:33	-.-	8/9/2022 21:41	-.-	8/9/2022 21:49	-.-
8/9/2022 21:26	-.-	8/9/2022 21:34	-.-	8/9/2022 21:42	-.-	8/9/2022 21:50	-.-

8/9/2022 21:49	0.05	8/9/2022 21:57	0.29	8/9/2022 22:05	0.05	8/9/2022 22:13	0.04
8/9/2022 21:50	-.-	8/9/2022 21:58	-.-	8/9/2022 22:06	-.-	8/9/2022 22:14	-.-
8/9/2022 21:51	-.-	8/9/2022 21:59	-.-	8/9/2022 22:07	-.-	8/9/2022 22:15	-.-
8/9/2022 21:50	0.04	8/9/2022 21:58	0.08	8/9/2022 22:06	0.05	8/9/2022 22:14	0.04
8/9/2022 21:51	-.-	8/9/2022 21:59	-.-	8/9/2022 22:07	-.-	8/9/2022 22:15	-.-
8/9/2022 21:52	-.-	8/9/2022 22:00	-.-	8/9/2022 22:08	-.-	8/9/2022 22:16	-.-
8/9/2022 21:51	0.04	8/9/2022 21:59	0.2	8/9/2022 22:07	0.04	8/9/2022 22:15	0.05
8/9/2022 21:52	-.-	8/9/2022 22:00	-.-	8/9/2022 22:08	-.-	8/9/2022 22:16	-.-
8/9/2022 21:53	-.-	8/9/2022 22:01	-.-	8/9/2022 22:09	-.-	8/9/2022 22:17	-.-
8/9/2022 21:52	0.05	8/9/2022 22:00	0.06	8/9/2022 22:08	0.04	8/9/2022 22:16	0.05
8/9/2022 21:53	-.-	8/9/2022 22:01	-.-	8/9/2022 22:09	-.-	8/9/2022 22:17	-.-
8/9/2022 21:54	-.-	8/9/2022 22:02	-.-	8/9/2022 22:10	-.-	8/9/2022 22:18	-.-
8/9/2022 21:53	0.05	8/9/2022 22:01	0.04	8/9/2022 22:09	0.04	8/9/2022 22:17	0.04
8/9/2022 21:54	-.-	8/9/2022 22:02	-.-	8/9/2022 22:10	-.-	8/9/2022 22:18	-.-
8/9/2022 21:55	-.-	8/9/2022 22:03	-.-	8/9/2022 22:11	-.-	8/9/2022 22:19	-.-
8/9/2022 21:54	0.05	8/9/2022 22:02	0.05	8/9/2022 22:10	0.04	8/9/2022 22:18	0.04
8/9/2022 21:55	-.-	8/9/2022 22:03	-.-	8/9/2022 22:11	-.-	8/9/2022 22:19	-.-
8/9/2022 21:56	-.-	8/9/2022 22:04	-.-	8/9/2022 22:12	-.-	8/9/2022 22:20	-.-
8/9/2022 21:55	0.04	8/9/2022 22:03	0.06	8/9/2022 22:11	0.04	8/9/2022 22:19	0.04
8/9/2022 21:56	-.-	8/9/2022 22:04	-.-	8/9/2022 22:12	-.-	8/9/2022 22:20	-.-
8/9/2022 21:57	-.-	8/9/2022 22:05	-.-	8/9/2022 22:13	-.-	8/9/2022 22:21	-.-
8/9/2022 21:56	0.04	8/9/2022 22:04	0.04	8/9/2022 22:12	0.04	8/9/2022 22:20	0.04
8/9/2022 21:57	-.-	8/9/2022 22:05	-.-	8/9/2022 22:13	-.-	8/9/2022 22:21	-.-
8/9/2022 21:58	-.-	8/9/2022 22:06	-.-	8/9/2022 22:14	-.-	8/9/2022 22:22	-.-

8/9/2022 22:21	0.05	8/9/2022 22:29	0.04	8/9/2022 22:37	0.05	8/9/2022 22:45	0.04
8/9/2022 22:22	-.-	8/9/2022 22:30	-.-	8/9/2022 22:38	-.-	8/9/2022 22:46	-.-
8/9/2022 22:23	-.-	8/9/2022 22:31	-.-	8/9/2022 22:39	-.-	8/9/2022 22:47	-.-
8/9/2022 22:22	0.04	8/9/2022 22:30	0.04	8/9/2022 22:38	0.05	8/9/2022 22:46	0.05
8/9/2022 22:23	-.-	8/9/2022 22:31	-.-	8/9/2022 22:39	-.-	8/9/2022 22:47	-.-
8/9/2022 22:24	-.-	8/9/2022 22:32	-.-	8/9/2022 22:40	-.-	8/9/2022 22:48	-.-
8/9/2022 22:23	0.05	8/9/2022 22:31	0.05	8/9/2022 22:39	0.04	8/9/2022 22:47	0.04
8/9/2022 22:24	-.-	8/9/2022 22:32	-.-	8/9/2022 22:40	-.-	8/9/2022 22:48	-.-
8/9/2022 22:25	-.-	8/9/2022 22:33	-.-	8/9/2022 22:41	-.-	8/9/2022 22:49	-.-
8/9/2022 22:24	0.04	8/9/2022 22:32	0.05	8/9/2022 22:40	0.04	8/9/2022 22:48	0.04
8/9/2022 22:25	-.-	8/9/2022 22:33	-.-	8/9/2022 22:41	-.-	8/9/2022 22:49	-.-
8/9/2022 22:26	-.-	8/9/2022 22:34	-.-	8/9/2022 22:42	-.-	8/9/2022 22:50	-.-
8/9/2022 22:25	0.04	8/9/2022 22:33	0.04	8/9/2022 22:41	0.05	8/9/2022 22:49	0.04
8/9/2022 22:26	-.-	8/9/2022 22:34	-.-	8/9/2022 22:42	-.-	8/9/2022 22:50	-.-
8/9/2022 22:27	-.-	8/9/2022 22:35	-.-	8/9/2022 22:43	-.-	8/9/2022 22:51	-.-
8/9/2022 22:26	0.05	8/9/2022 22:34	0.05	8/9/2022 22:42	0.05	8/9/2022 22:50	0.04
8/9/2022 22:27	-.-	8/9/2022 22:35	-.-	8/9/2022 22:43	-.-	8/9/2022 22:51	-.-
8/9/2022 22:28	-.-	8/9/2022 22:36	-.-	8/9/2022 22:44	-.-	8/9/2022 22:52	-.-
8/9/2022 22:27	0.04	8/9/2022 22:35	0.05	8/9/2022 22:43	0.04	8/9/2022 22:51	0.05
8/9/2022 22:28	-.-	8/9/2022 22:36	-.-	8/9/2022 22:44	-.-	8/9/2022 22:52	-.-
8/9/2022 22:29	-.-	8/9/2022 22:37	-.-	8/9/2022 22:45	-.-	8/9/2022 22:53	-.-
8/9/2022 22:28	0.04	8/9/2022 22:36	0.05	8/9/2022 22:44	0.04	8/9/2022 22:52	0.04
8/9/2022 22:29	-.-	8/9/2022 22:37	-.-	8/9/2022 22:45	-.-	8/9/2022 22:53	-.-
8/9/2022 22:30	-.-	8/9/2022 22:38	-.-	8/9/2022 22:46	-.-	8/9/2022 22:54	-.-

8/9/2022 22:53	0.04	8/9/2022 23:01	0.04	8/9/2022 23:09	0.04	8/9/2022 23:17	0.04
8/9/2022 22:54	-.-	8/9/2022 23:02	-.-	8/9/2022 23:10	-.-	8/9/2022 23:18	-.-
8/9/2022 22:55	-.-	8/9/2022 23:03	-.-	8/9/2022 23:11	-.-	8/9/2022 23:19	-.-
8/9/2022 22:54	0.05	8/9/2022 23:02	0.05	8/9/2022 23:10	0.04	8/9/2022 23:18	0.04
8/9/2022 22:55	-.-	8/9/2022 23:03	-.-	8/9/2022 23:11	-.-	8/9/2022 23:19	-.-
8/9/2022 22:56	-.-	8/9/2022 23:04	-.-	8/9/2022 23:12	-.-	8/9/2022 23:20	-.-
8/9/2022 22:55	0.05	8/9/2022 23:03	0.05	8/9/2022 23:11	0.04	8/9/2022 23:19	0.05
8/9/2022 22:56	-.-	8/9/2022 23:04	-.-	8/9/2022 23:12	-.-	8/9/2022 23:20	-.-
8/9/2022 22:57	-.-	8/9/2022 23:05	-.-	8/9/2022 23:13	-.-	8/9/2022 23:21	-.-
8/9/2022 22:56	0.04	8/9/2022 23:04	0.04	8/9/2022 23:12	0.05	8/9/2022 23:20	0.04
8/9/2022 22:57	-.-	8/9/2022 23:05	-.-	8/9/2022 23:13	-.-	8/9/2022 23:21	-.-
8/9/2022 22:58	-.-	8/9/2022 23:06	-.-	8/9/2022 23:14	-.-	8/9/2022 23:22	-.-
8/9/2022 22:57	0.04	8/9/2022 23:05	0.04	8/9/2022 23:13	0.04	8/9/2022 23:21	0.04
8/9/2022 22:58	-.-	8/9/2022 23:06	-.-	8/9/2022 23:14	-.-	8/9/2022 23:22	-.-
8/9/2022 22:59	-.-	8/9/2022 23:07	-.-	8/9/2022 23:15	-.-	8/9/2022 23:23	-.-
8/9/2022 22:58	0.04	8/9/2022 23:06	0.04	8/9/2022 23:14	0.05	8/9/2022 23:22	0.04
8/9/2022 22:59	-.-	8/9/2022 23:07	-.-	8/9/2022 23:15	-.-	8/9/2022 23:23	-.-
8/9/2022 23:00	-.-	8/9/2022 23:08	-.-	8/9/2022 23:16	-.-	8/9/2022 23:24	-.-
8/9/2022 22:59	0.05	8/9/2022 23:07	0.05	8/9/2022 23:15	0.04	8/9/2022 23:23	0.04
8/9/2022 23:00	-.-	8/9/2022 23:08	-.-	8/9/2022 23:16	-.-	8/9/2022 23:24	-.-
8/9/2022 23:01	-.-	8/9/2022 23:09	-.-	8/9/2022 23:17	-.-	8/9/2022 23:25	-.-
8/9/2022 23:00	0.05	8/9/2022 23:08	0.04	8/9/2022 23:16	0.04	8/9/2022 23:24	0.04
8/9/2022 23:01	-.-	8/9/2022 23:09	-.-	8/9/2022 23:17	-.-	8/9/2022 23:25	-.-
8/9/2022 23:02	-.-	8/9/2022 23:10	-.-	8/9/2022 23:18	-.-	8/9/2022 23:26	-.-

8/9/2022 23:25	0.04	8/9/2022 23:33	0.04	8/9/2022 23:41	0.04	8/9/2022 23:49	0.05
8/9/2022 23:26	-.-	8/9/2022 23:34	-.-	8/9/2022 23:42	-.-	8/9/2022 23:50	-.-
8/9/2022 23:27	-.-	8/9/2022 23:35	-.-	8/9/2022 23:43	-.-	8/9/2022 23:51	-.-
8/9/2022 23:26	0.04	8/9/2022 23:34	0.05	8/9/2022 23:42	0.05	8/9/2022 23:50	0.04
8/9/2022 23:27	-.-	8/9/2022 23:35	-.-	8/9/2022 23:43	-.-	8/9/2022 23:51	-.-
8/9/2022 23:28	-.-	8/9/2022 23:36	-.-	8/9/2022 23:44	-.-	8/9/2022 23:52	-.-
8/9/2022 23:27	0.04	8/9/2022 23:35	0.04	8/9/2022 23:43	0.04	8/9/2022 23:51	0.04
8/9/2022 23:28	-.-	8/9/2022 23:36	-.-	8/9/2022 23:44	-.-	8/9/2022 23:52	-.-
8/9/2022 23:29	-.-	8/9/2022 23:37	-.-	8/9/2022 23:45	-.-	8/9/2022 23:53	-.-
8/9/2022 23:28	0.04	8/9/2022 23:36	0.05	8/9/2022 23:44	0.04	8/9/2022 23:52	0.05
8/9/2022 23:29	-.-	8/9/2022 23:37	-.-	8/9/2022 23:45	-.-	8/9/2022 23:53	-.-
8/9/2022 23:30	-.-	8/9/2022 23:38	-.-	8/9/2022 23:46	-.-	8/9/2022 23:54	-.-
8/9/2022 23:29	0.04	8/9/2022 23:37	0.04	8/9/2022 23:45	0.04	8/9/2022 23:53	0.05
8/9/2022 23:30	-.-	8/9/2022 23:38	-.-	8/9/2022 23:46	-.-	8/9/2022 23:54	-.-
8/9/2022 23:31	-.-	8/9/2022 23:39	-.-	8/9/2022 23:47	-.-	8/9/2022 23:55	-.-
8/9/2022 23:30	0.05	8/9/2022 23:38	0.05	8/9/2022 23:46	0.04	8/9/2022 23:54	0.05
8/9/2022 23:31	-.-	8/9/2022 23:39	-.-	8/9/2022 23:47	-.-	8/9/2022 23:55	-.-
8/9/2022 23:32	-.-	8/9/2022 23:40	-.-	8/9/2022 23:48	-.-	8/9/2022 23:56	-.-
8/9/2022 23:31	0.05	8/9/2022 23:39	0.04	8/9/2022 23:47	0.04	8/9/2022 23:55	0.05
8/9/2022 23:32	-.-	8/9/2022 23:40	-.-	8/9/2022 23:48	-.-	8/9/2022 23:56	-.-
8/9/2022 23:33	-.-	8/9/2022 23:41	-.-	8/9/2022 23:49	-.-	8/9/2022 23:57	-.-
8/9/2022 23:32	0.05	8/9/2022 23:40	0.04	8/9/2022 23:48	0.04	8/9/2022 23:56	0.04
8/9/2022 23:33	-.-	8/9/2022 23:41	-.-	8/9/2022 23:49	-.-	8/9/2022 23:57	-.-
8/9/2022 23:34	-.-	8/9/2022 23:42	-.-	8/9/2022 23:50	-.-	8/9/2022 23:58	-.-

8/9/2022 23:57	0.04	8/10/2022 0:05	0.04	8/10/2022 0:13	0.04	8/10/2022 0:21	0.04
8/9/2022 23:58	-.-	8/10/2022 0:06	-.-	8/10/2022 0:14	-.-	8/10/2022 0:22	-.-
8/9/2022 23:59	-.-	8/10/2022 0:07	-.-	8/10/2022 0:15	-.-	8/10/2022 0:23	-.-
8/9/2022 23:58	0.04	8/10/2022 0:06	0.04	8/10/2022 0:14	0.04	8/10/2022 0:22	0.06
8/9/2022 23:59	-.-	8/10/2022 0:07	-.-	8/10/2022 0:15	-.-	8/10/2022 0:23	-.-
8/10/2022 0:00	-.-	8/10/2022 0:08	-.-	8/10/2022 0:16	-.-	8/10/2022 0:24	-.-
8/9/2022 23:59	0.04	8/10/2022 0:07	0.05	8/10/2022 0:15	0.04	8/10/2022 0:23	0.05
8/10/2022 0:00	-.-	8/10/2022 0:08	-.-	8/10/2022 0:16	-.-	8/10/2022 0:24	-.-
8/10/2022 0:01	-.-	8/10/2022 0:09	-.-	8/10/2022 0:17	-.-	8/10/2022 0:25	-.-
8/10/2022 0:00	0.06	8/10/2022 0:08	0.04	8/10/2022 0:16	0.04	8/10/2022 0:24	0.05
8/10/2022 0:01	-.-	8/10/2022 0:09	-.-	8/10/2022 0:17	-.-	8/10/2022 0:25	-.-
8/10/2022 0:02	-.-	8/10/2022 0:10	-.-	8/10/2022 0:18	-.-	8/10/2022 0:26	-.-
8/10/2022 0:01	0.04	8/10/2022 0:09	0.04	8/10/2022 0:17	0.05	8/10/2022 0:25	0.04
8/10/2022 0:02	-.-	8/10/2022 0:10	-.-	8/10/2022 0:18	-.-	8/10/2022 0:26	-.-
8/10/2022 0:03	-.-	8/10/2022 0:11	-.-	8/10/2022 0:19	-.-	8/10/2022 0:27	-.-
8/10/2022 0:02	0.04	8/10/2022 0:10	0.04	8/10/2022 0:18	0.04	8/10/2022 0:26	0.04
8/10/2022 0:03	-.-	8/10/2022 0:11	-.-	8/10/2022 0:19	-.-	8/10/2022 0:27	-.-
8/10/2022 0:04	-.-	8/10/2022 0:12	-.-	8/10/2022 0:20	-.-	8/10/2022 0:28	-.-
8/10/2022 0:03	0.04	8/10/2022 0:11	0.04	8/10/2022 0:19	0.05	8/10/2022 0:27	0.04
8/10/2022 0:04	-.-	8/10/2022 0:12	-.-	8/10/2022 0:20	-.-	8/10/2022 0:28	-.-
8/10/2022 0:05	-.-	8/10/2022 0:13	-.-	8/10/2022 0:21	-.-	8/10/2022 0:29	-.-
8/10/2022 0:04	0.04	8/10/2022 0:12	0.05	8/10/2022 0:20	0.04	8/10/2022 0:28	0.04
8/10/2022 0:05	-.-	8/10/2022 0:13	-.-	8/10/2022 0:21	-.-	8/10/2022 0:29	-.-
8/10/2022 0:06	-.-	8/10/2022 0:14	-.-	8/10/2022 0:22	-.-	8/10/2022 0:30	-.-

8/10/2022 0:29	0.05	8/10/2022 0:37	0.04	8/10/2022 0:45	0.04	8/10/2022 0:53	0.04
8/10/2022 0:30	-.-	8/10/2022 0:38	-.-	8/10/2022 0:46	-.-	8/10/2022 0:54	-.-
8/10/2022 0:31	-.-	8/10/2022 0:39	-.-	8/10/2022 0:47	-.-	8/10/2022 0:55	-.-
8/10/2022 0:30	0.04	8/10/2022 0:38	0.04	8/10/2022 0:46	0.04	8/10/2022 0:54	0.04
8/10/2022 0:31	-.-	8/10/2022 0:39	-.-	8/10/2022 0:47	-.-	8/10/2022 0:55	-.-
8/10/2022 0:32	-.-	8/10/2022 0:40	-.-	8/10/2022 0:48	-.-	8/10/2022 0:56	-.-
8/10/2022 0:31	0.05	8/10/2022 0:39	0.04	8/10/2022 0:47	0.04	8/10/2022 0:55	0.04
8/10/2022 0:32	-.-	8/10/2022 0:40	-.-	8/10/2022 0:48	-.-	8/10/2022 0:56	-.-
8/10/2022 0:33	-.-	8/10/2022 0:41	-.-	8/10/2022 0:49	-.-	8/10/2022 0:57	-.-
8/10/2022 0:32	0.04	8/10/2022 0:40	0.04	8/10/2022 0:48	0.04	8/10/2022 0:56	0.05
8/10/2022 0:33	-.-	8/10/2022 0:41	-.-	8/10/2022 0:49	-.-	8/10/2022 0:57	-.-
8/10/2022 0:34	-.-	8/10/2022 0:42	-.-	8/10/2022 0:50	-.-	8/10/2022 0:58	-.-
8/10/2022 0:33	0.04	8/10/2022 0:41	0.05	8/10/2022 0:49	0.04	8/10/2022 0:57	0.05
8/10/2022 0:34	-.-	8/10/2022 0:42	-.-	8/10/2022 0:50	-.-	8/10/2022 0:58	-.-
8/10/2022 0:35	-.-	8/10/2022 0:43	-.-	8/10/2022 0:51	-.-	8/10/2022 0:59	-.-
8/10/2022 0:34	0.04	8/10/2022 0:42	0.04	8/10/2022 0:50	0.04	8/10/2022 0:58	0.04
8/10/2022 0:35	-.-	8/10/2022 0:43	-.-	8/10/2022 0:51	-.-	8/10/2022 0:59	-.-
8/10/2022 0:36	-.-	8/10/2022 0:44	-.-	8/10/2022 0:52	-.-	8/10/2022 1:00	-.-
8/10/2022 0:35	0.05	8/10/2022 0:43	0.04	8/10/2022 0:51	0.06	8/10/2022 0:59	0.05
8/10/2022 0:36	-.-	8/10/2022 0:44	-.-	8/10/2022 0:52	-.-	8/10/2022 1:00	-.-
8/10/2022 0:37	-.-	8/10/2022 0:45	-.-	8/10/2022 0:53	-.-	8/10/2022 1:01	-.-
8/10/2022 0:36	0.05	8/10/2022 0:44	0.05	8/10/2022 0:52	0.04	8/10/2022 1:00	0.04
8/10/2022 0:37	-.-	8/10/2022 0:45	-.-	8/10/2022 0:53	-.-	8/10/2022 1:01	-.-
8/10/2022 0:38	-.-	8/10/2022 0:46	-.-	8/10/2022 0:54	-.-	8/10/2022 1:02	-.-

8/10/2022 1:01	0.04	8/10/2022 1:09	0.04	8/10/2022 1:17	0.05	8/10/2022 1:25	0.05
8/10/2022 1:02	-.-	8/10/2022 1:10	-.-	8/10/2022 1:18	-.-	8/10/2022 1:26	-.-
8/10/2022 1:03	-.-	8/10/2022 1:11	-.-	8/10/2022 1:19	-.-	8/10/2022 1:27	-.-
8/10/2022 1:02	0.04	8/10/2022 1:10	0.04	8/10/2022 1:18	0.04	8/10/2022 1:26	0.04
8/10/2022 1:03	-.-	8/10/2022 1:11	-.-	8/10/2022 1:19	-.-	8/10/2022 1:27	-.-
8/10/2022 1:04	-.-	8/10/2022 1:12	-.-	8/10/2022 1:20	-.-	8/10/2022 1:28	-.-
8/10/2022 1:03	0.05	8/10/2022 1:11	0.04	8/10/2022 1:19	0.04	8/10/2022 1:27	0.04
8/10/2022 1:04	-.-	8/10/2022 1:12	-.-	8/10/2022 1:20	-.-	8/10/2022 1:28	-.-
8/10/2022 1:05	-.-	8/10/2022 1:13	-.-	8/10/2022 1:21	-.-	8/10/2022 1:29	-.-
8/10/2022 1:04	0.04	8/10/2022 1:12	0.04	8/10/2022 1:20	0.04	8/10/2022 1:28	0.04
8/10/2022 1:05	-.-	8/10/2022 1:13	-.-	8/10/2022 1:21	-.-	8/10/2022 1:29	-.-
8/10/2022 1:06	-.-	8/10/2022 1:14	-.-	8/10/2022 1:22	-.-	8/10/2022 1:30	-.-
8/10/2022 1:05	0.04	8/10/2022 1:13	0.04	8/10/2022 1:21	0.05	8/10/2022 1:29	0.04
8/10/2022 1:06	-.-	8/10/2022 1:14	-.-	8/10/2022 1:22	-.-	8/10/2022 1:30	-.-
8/10/2022 1:07	-.-	8/10/2022 1:15	-.-	8/10/2022 1:23	-.-	8/10/2022 1:31	-.-
8/10/2022 1:06	0.05	8/10/2022 1:14	0.04	8/10/2022 1:22	0.04	8/10/2022 1:30	0.04
8/10/2022 1:07	-.-	8/10/2022 1:15	-.-	8/10/2022 1:23	-.-	8/10/2022 1:31	-.-
8/10/2022 1:08	-.-	8/10/2022 1:16	-.-	8/10/2022 1:24	-.-	8/10/2022 1:32	-.-
8/10/2022 1:07	0.04	8/10/2022 1:15	0.06	8/10/2022 1:23	0.04	8/10/2022 1:31	0.04
8/10/2022 1:08	-.-	8/10/2022 1:16	-.-	8/10/2022 1:24	-.-	8/10/2022 1:32	-.-
8/10/2022 1:09	-.-	8/10/2022 1:17	-.-	8/10/2022 1:25	-.-	8/10/2022 1:33	-.-
8/10/2022 1:08	0.04	8/10/2022 1:16	0.05	8/10/2022 1:24	0.05	8/10/2022 1:32	0.04
8/10/2022 1:09	-.-	8/10/2022 1:17	-.-	8/10/2022 1:25	-.-	8/10/2022 1:33	-.-
8/10/2022 1:10	-.-	8/10/2022 1:18	-.-	8/10/2022 1:26	-.-	8/10/2022 1:34	-.-

8/10/2022 1:33	0.04	8/10/2022 1:41	0.04	8/10/2022 1:49	0.04	8/10/2022 1:57	0.04
8/10/2022 1:34	-.-	8/10/2022 1:42	-.-	8/10/2022 1:50	-.-	8/10/2022 1:58	-.-
8/10/2022 1:35	-.-	8/10/2022 1:43	-.-	8/10/2022 1:51	-.-	8/10/2022 1:59	-.-
8/10/2022 1:34	0.04	8/10/2022 1:42	0.05	8/10/2022 1:50	0.05	8/10/2022 1:58	0.04
8/10/2022 1:35	-.-	8/10/2022 1:43	-.-	8/10/2022 1:51	-.-	8/10/2022 1:59	-.-
8/10/2022 1:36	-.-	8/10/2022 1:44	-.-	8/10/2022 1:52	-.-	8/10/2022 2:00	-.-
8/10/2022 1:35	0.04	8/10/2022 1:43	0.04	8/10/2022 1:51	0.04	8/10/2022 1:59	0.04
8/10/2022 1:36	-.-	8/10/2022 1:44	-.-	8/10/2022 1:52	-.-	8/10/2022 2:00	-.-
8/10/2022 1:37	-.-	8/10/2022 1:45	-.-	8/10/2022 1:53	-.-	8/10/2022 2:01	-.-
8/10/2022 1:36	0.04	8/10/2022 1:44	0.04	8/10/2022 1:52	0.04	8/10/2022 2:00	0.04
8/10/2022 1:37	-.-	8/10/2022 1:45	-.-	8/10/2022 1:53	-.-	8/10/2022 2:01	-.-
8/10/2022 1:38	-.-	8/10/2022 1:46	-.-	8/10/2022 1:54	-.-	8/10/2022 2:02	-.-
8/10/2022 1:37	0.04	8/10/2022 1:45	0.05	8/10/2022 1:53	0.04	8/10/2022 2:01	0.04
8/10/2022 1:38	-.-	8/10/2022 1:46	-.-	8/10/2022 1:54	-.-	8/10/2022 2:02	-.-
8/10/2022 1:39	-.-	8/10/2022 1:47	-.-	8/10/2022 1:55	-.-	8/10/2022 2:03	-.-
8/10/2022 1:38	0.04	8/10/2022 1:46	0.04	8/10/2022 1:54	0.04	8/10/2022 2:02	0.05
8/10/2022 1:39	-.-	8/10/2022 1:47	-.-	8/10/2022 1:55	-.-	8/10/2022 2:03	-.-
8/10/2022 1:40	-.-	8/10/2022 1:48	-.-	8/10/2022 1:56	-.-	8/10/2022 2:04	-.-
8/10/2022 1:39	0.05	8/10/2022 1:47	0.04	8/10/2022 1:55	0.05	8/10/2022 2:03	0.04
8/10/2022 1:40	-.-	8/10/2022 1:48	-.-	8/10/2022 1:56	-.-	8/10/2022 2:04	-.-
8/10/2022 1:41	-.-	8/10/2022 1:49	-.-	8/10/2022 1:57	-.-	8/10/2022 2:05	-.-
8/10/2022 1:40	0.04	8/10/2022 1:48	0.05	8/10/2022 1:56	0.04	8/10/2022 2:04	0.04
8/10/2022 1:41	-.-	8/10/2022 1:49	-.-	8/10/2022 1:57	-.-	8/10/2022 2:05	-.-
8/10/2022 1:42	-.-	8/10/2022 1:50	-.-	8/10/2022 1:58	-.-	8/10/2022 2:06	-.-

8/10/2022 2:05	0.04	8/10/2022 2:13	0.04	8/10/2022 2:21	0.05	8/10/2022 2:29	0.04
8/10/2022 2:06	-.-	8/10/2022 2:14	-.-	8/10/2022 2:22	-.-	8/10/2022 2:30	-.-
8/10/2022 2:07	-.-	8/10/2022 2:15	-.-	8/10/2022 2:23	-.-	8/10/2022 2:31	-.-
8/10/2022 2:06	0.04	8/10/2022 2:14	0.04	8/10/2022 2:22	0.04	8/10/2022 2:30	0.04
8/10/2022 2:07	-.-	8/10/2022 2:15	-.-	8/10/2022 2:23	-.-	8/10/2022 2:31	-.-
8/10/2022 2:08	-.-	8/10/2022 2:16	-.-	8/10/2022 2:24	-.-	8/10/2022 2:32	-.-
8/10/2022 2:07	0.05	8/10/2022 2:15	0.04	8/10/2022 2:23	0.04	8/10/2022 2:31	0.04
8/10/2022 2:08	-.-	8/10/2022 2:16	-.-	8/10/2022 2:24	-.-	8/10/2022 2:32	-.-
8/10/2022 2:09	-.-	8/10/2022 2:17	-.-	8/10/2022 2:25	-.-	8/10/2022 2:33	-.-
8/10/2022 2:08	0.04	8/10/2022 2:16	0.04	8/10/2022 2:24	0.04	8/10/2022 2:32	0.04
8/10/2022 2:09	-.-	8/10/2022 2:17	-.-	8/10/2022 2:25	-.-	8/10/2022 2:33	-.-
8/10/2022 2:10	-.-	8/10/2022 2:18	-.-	8/10/2022 2:26	-.-	8/10/2022 2:34	-.-
8/10/2022 2:09	0.04	8/10/2022 2:17	0.04	8/10/2022 2:25	0.04	8/10/2022 2:33	0.04
8/10/2022 2:10	-.-	8/10/2022 2:18	-.-	8/10/2022 2:26	-.-	8/10/2022 2:34	-.-
8/10/2022 2:11	-.-	8/10/2022 2:19	-.-	8/10/2022 2:27	-.-	8/10/2022 2:35	-.-
8/10/2022 2:10	0.05	8/10/2022 2:18	0.04	8/10/2022 2:26	0.04	8/10/2022 2:34	0.04
8/10/2022 2:11	-.-	8/10/2022 2:19	-.-	8/10/2022 2:27	-.-	8/10/2022 2:35	-.-
8/10/2022 2:12	-.-	8/10/2022 2:20	-.-	8/10/2022 2:28	-.-	8/10/2022 2:36	-.-
8/10/2022 2:11	0.04	8/10/2022 2:19	0.04	8/10/2022 2:27	0.04	8/10/2022 2:35	0.04
8/10/2022 2:12	-.-	8/10/2022 2:20	-.-	8/10/2022 2:28	-.-	8/10/2022 2:36	-.-
8/10/2022 2:13	-.-	8/10/2022 2:21	-.-	8/10/2022 2:29	-.-	8/10/2022 2:37	-.-
8/10/2022 2:12	0.04	8/10/2022 2:20	0.05	8/10/2022 2:28	0.04	8/10/2022 2:36	0.04
8/10/2022 2:13	-.-	8/10/2022 2:21	-.-	8/10/2022 2:29	-.-	8/10/2022 2:37	-.-
8/10/2022 2:14	-.-	8/10/2022 2:22	-.-	8/10/2022 2:30	-.-	8/10/2022 2:38	-.-

8/10/2022 2:37	0.04	8/10/2022 2:45	0.05	8/10/2022 2:53	0.04	8/10/2022 3:01	0.04
8/10/2022 2:38	-.-	8/10/2022 2:46	-.-	8/10/2022 2:54	-.-	8/10/2022 3:02	-.-
8/10/2022 2:39	-.-	8/10/2022 2:47	-.-	8/10/2022 2:55	-.-	8/10/2022 3:03	-.-
8/10/2022 2:38	0.04	8/10/2022 2:46	0.05	8/10/2022 2:54	0.05	8/10/2022 3:02	0.04
8/10/2022 2:39	-.-	8/10/2022 2:47	-.-	8/10/2022 2:55	-.-	8/10/2022 3:03	-.-
8/10/2022 2:40	-.-	8/10/2022 2:48	-.-	8/10/2022 2:56	-.-	8/10/2022 3:04	-.-
8/10/2022 2:39	0.04	8/10/2022 2:47	0.04	8/10/2022 2:55	0.04	8/10/2022 3:03	0.05
8/10/2022 2:40	-.-	8/10/2022 2:48	-.-	8/10/2022 2:56	-.-	8/10/2022 3:04	-.-
8/10/2022 2:41	-.-	8/10/2022 2:49	-.-	8/10/2022 2:57	-.-	8/10/2022 3:05	-.-
8/10/2022 2:40	0.04	8/10/2022 2:48	0.04	8/10/2022 2:56	0.04	8/10/2022 3:04	0.04
8/10/2022 2:41	-.-	8/10/2022 2:49	-.-	8/10/2022 2:57	-.-	8/10/2022 3:05	-.-
8/10/2022 2:42	-.-	8/10/2022 2:50	-.-	8/10/2022 2:58	-.-	8/10/2022 3:06	-.-
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8/10/2022 2:43	-.-	8/10/2022 2:51	-.-	8/10/2022 2:59	-.-	8/10/2022 3:07	-.-
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8/10/2022 2:44	-.-	8/10/2022 2:52	-.-	8/10/2022 3:00	-.-	8/10/2022 3:08	-.-
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8/10/2022 2:45	-.-	8/10/2022 2:53	-.-	8/10/2022 3:01	-.-	8/10/2022 3:09	-.-
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8/10/2022 2:45	-.-	8/10/2022 2:53	-.-	8/10/2022 3:01	-.-	8/10/2022 3:09	-.-
8/10/2022 2:46	-.-	8/10/2022 2:54	-.-	8/10/2022 3:02	-.-	8/10/2022 3:10	-.-

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8/10/2022 3:16	0.04	8/10/2022 3:24	0.05	8/10/2022 3:32	0.04	8/10/2022 3:40	0.05
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8/10/2022 3:18	-.-	8/10/2022 3:26	-.-	8/10/2022 3:34	-.-	8/10/2022 3:42	-.-

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8/10/2022 3:43	-.-	8/10/2022 3:51	-.-	8/10/2022 3:59	-.-	8/10/2022 4:07	-.-
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8/10/2022 3:44	-.-	8/10/2022 3:52	-.-	8/10/2022 4:00	-.-	8/10/2022 4:08	-.-
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8/10/2022 3:44	-.-	8/10/2022 3:52	-.-	8/10/2022 4:00	-.-	8/10/2022 4:08	-.-
8/10/2022 3:45	-.-	8/10/2022 3:53	-.-	8/10/2022 4:01	-.-	8/10/2022 4:09	-.-
8/10/2022 3:44	0.04	8/10/2022 3:52	0.04	8/10/2022 4:00	0.04	8/10/2022 4:08	0.04
8/10/2022 3:45	-.-	8/10/2022 3:53	-.-	8/10/2022 4:01	-.-	8/10/2022 4:09	-.-
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8/10/2022 3:48	-.-	8/10/2022 3:56	-.-	8/10/2022 4:04	-.-	8/10/2022 4:12	-.-
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8/10/2022 3:48	-.-	8/10/2022 3:56	-.-	8/10/2022 4:04	-.-	8/10/2022 4:12	-.-
8/10/2022 3:49	-.-	8/10/2022 3:57	-.-	8/10/2022 4:05	-.-	8/10/2022 4:13	-.-
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8/10/2022 4:15	-.-	8/10/2022 4:23	-.-	8/10/2022 4:31	-.-	8/10/2022 4:39	-.-
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8/10/2022 4:18	-.-	8/10/2022 4:26	-.-	8/10/2022 4:34	-.-	8/10/2022 4:42	-.-
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8/10/2022 4:19	-.-	8/10/2022 4:27	-.-	8/10/2022 4:35	-.-	8/10/2022 4:43	-.-
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8/10/2022 4:20	-.-	8/10/2022 4:28	-.-	8/10/2022 4:36	-.-	8/10/2022 4:44	-.-
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8/10/2022 4:47	-.-	8/10/2022 4:55	-.-	8/10/2022 5:03	-.-	8/10/2022 5:11	-.-
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8/10/2022 4:52	-.-	8/10/2022 5:00	-.-	8/10/2022 5:08	-.-	8/10/2022 5:16	-.-
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8/10/2022 4:53	-.-	8/10/2022 5:01	-.-	8/10/2022 5:09	-.-	8/10/2022 5:17	-.-
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8/10/2022 4:54	-.-	8/10/2022 5:02	-.-	8/10/2022 5:10	-.-	8/10/2022 5:18	-.-

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8/10/2022 5:22	-.-	8/10/2022 5:30	-.-	8/10/2022 5:38	-.-	8/10/2022 5:46	-.-
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8/10/2022 5:24	-.-	8/10/2022 5:32	-.-	8/10/2022 5:40	-.-	8/10/2022 5:48	-.-
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8/10/2022 5:25	-.-	8/10/2022 5:33	-.-	8/10/2022 5:41	-.-	8/10/2022 5:49	-.-
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8/10/2022 5:51	-.-	8/10/2022 5:59	-.-	8/10/2022 6:07	-.-	8/10/2022 6:15	-.-
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8/10/2022 5:51	0.06	8/10/2022 5:59	0.04	8/10/2022 6:07	0.04	8/10/2022 6:15	0.04
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8/10/2022 5:54	-.-	8/10/2022 6:02	-.-	8/10/2022 6:10	-.-	8/10/2022 6:18	-.-
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8/10/2022 5:55	-.-	8/10/2022 6:03	-.-	8/10/2022 6:11	-.-	8/10/2022 6:19	-.-
8/10/2022 5:54	0.05	8/10/2022 6:02	0.05	8/10/2022 6:10	0.06	8/10/2022 6:18	0.04
8/10/2022 5:55	-.-	8/10/2022 6:03	-.-	8/10/2022 6:11	-.-	8/10/2022 6:19	-.-
8/10/2022 5:56	-.-	8/10/2022 6:04	-.-	8/10/2022 6:12	-.-	8/10/2022 6:20	-.-
8/10/2022 5:55	0.05	8/10/2022 6:03	0.04	8/10/2022 6:11	0.05	8/10/2022 6:19	0.04
8/10/2022 5:56	-.-	8/10/2022 6:04	-.-	8/10/2022 6:12	-.-	8/10/2022 6:20	-.-
8/10/2022 5:57	-.-	8/10/2022 6:05	-.-	8/10/2022 6:13	-.-	8/10/2022 6:21	-.-
8/10/2022 5:56	0.05	8/10/2022 6:04	0.04	8/10/2022 6:12	0.05	8/10/2022 6:20	0.05
8/10/2022 5:57	-.-	8/10/2022 6:05	-.-	8/10/2022 6:13	-.-	8/10/2022 6:21	-.-
8/10/2022 5:58	-.-	8/10/2022 6:06	-.-	8/10/2022 6:14	-.-	8/10/2022 6:22	-.-

8/10/2022 6:21	0.05	8/10/2022 6:29	0.04	8/10/2022 6:37	0.06	8/10/2022 6:45	0.05
8/10/2022 6:22	-.-	8/10/2022 6:30	-.-	8/10/2022 6:38	-.-	8/10/2022 6:46	-.-
8/10/2022 6:23	-.-	8/10/2022 6:31	-.-	8/10/2022 6:39	-.-	8/10/2022 6:47	-.-
8/10/2022 6:22	0.06	8/10/2022 6:30	0.04	8/10/2022 6:38	0.05	8/10/2022 6:46	0.05
8/10/2022 6:23	-.-	8/10/2022 6:31	-.-	8/10/2022 6:39	-.-	8/10/2022 6:47	-.-
8/10/2022 6:24	-.-	8/10/2022 6:32	-.-	8/10/2022 6:40	-.-	8/10/2022 6:48	-.-
8/10/2022 6:23	0.05	8/10/2022 6:31	0.04	8/10/2022 6:39	0.04	8/10/2022 6:47	0.05
8/10/2022 6:24	-.-	8/10/2022 6:32	-.-	8/10/2022 6:40	-.-	8/10/2022 6:48	-.-
8/10/2022 6:25	-.-	8/10/2022 6:33	-.-	8/10/2022 6:41	-.-	8/10/2022 6:49	-.-
8/10/2022 6:24	0.05	8/10/2022 6:32	0.04	8/10/2022 6:40	0.05	8/10/2022 6:48	0.04
8/10/2022 6:25	-.-	8/10/2022 6:33	-.-	8/10/2022 6:41	-.-	8/10/2022 6:49	-.-
8/10/2022 6:26	-.-	8/10/2022 6:34	-.-	8/10/2022 6:42	-.-	8/10/2022 6:50	-.-
8/10/2022 6:25	0.04	8/10/2022 6:33	0.04	8/10/2022 6:41	0.05	8/10/2022 6:49	0.04
8/10/2022 6:26	-.-	8/10/2022 6:34	-.-	8/10/2022 6:42	-.-	8/10/2022 6:50	-.-
8/10/2022 6:27	-.-	8/10/2022 6:35	-.-	8/10/2022 6:43	-.-	8/10/2022 6:51	-.-
8/10/2022 6:26	0.04	8/10/2022 6:34	0.04	8/10/2022 6:42	0.05	8/10/2022 6:50	0.05
8/10/2022 6:27	-.-	8/10/2022 6:35	-.-	8/10/2022 6:43	-.-	8/10/2022 6:51	-.-
8/10/2022 6:28	-.-	8/10/2022 6:36	-.-	8/10/2022 6:44	-.-	8/10/2022 6:52	-.-
8/10/2022 6:27	0.04	8/10/2022 6:35	0.04	8/10/2022 6:43	0.06	8/10/2022 6:51	0.04
8/10/2022 6:28	-.-	8/10/2022 6:36	-.-	8/10/2022 6:44	-.-	8/10/2022 6:52	-.-
8/10/2022 6:29	-.-	8/10/2022 6:37	-.-	8/10/2022 6:45	-.-	8/10/2022 6:53	-.-
8/10/2022 6:28	0.05	8/10/2022 6:36	0.04	8/10/2022 6:44	0.06	8/10/2022 6:52	0.05
8/10/2022 6:29	-.-	8/10/2022 6:37	-.-	8/10/2022 6:45	-.-	8/10/2022 6:53	-.-
8/10/2022 6:30	-.-	8/10/2022 6:38	-.-	8/10/2022 6:46	-.-	8/10/2022 6:54	-.-

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8/10/2022 6:54	-.-	8/10/2022 7:02	-.-	8/10/2022 7:10	-.-	8/10/2022 7:18	-.-
8/10/2022 6:55	-.-	8/10/2022 7:03	-.-	8/10/2022 7:11	-.-	8/10/2022 7:19	-.-
8/10/2022 6:54	0.05	8/10/2022 7:02	0.04	8/10/2022 7:10	0.05	8/10/2022 7:18	0.05
8/10/2022 6:55	-.-	8/10/2022 7:03	-.-	8/10/2022 7:11	-.-	8/10/2022 7:19	-.-
8/10/2022 6:56	-.-	8/10/2022 7:04	-.-	8/10/2022 7:12	-.-	8/10/2022 7:20	-.-
8/10/2022 6:55	0.05	8/10/2022 7:03	0.09	8/10/2022 7:11	0.05	8/10/2022 7:19	0.05
8/10/2022 6:56	-.-	8/10/2022 7:04	-.-	8/10/2022 7:12	-.-	8/10/2022 7:20	-.-
8/10/2022 6:57	-.-	8/10/2022 7:05	-.-	8/10/2022 7:13	-.-	8/10/2022 7:21	-.-
8/10/2022 6:56	0.05	8/10/2022 7:04	0.04	8/10/2022 7:12	0.06	8/10/2022 7:20	0.05
8/10/2022 6:57	-.-	8/10/2022 7:05	-.-	8/10/2022 7:13	-.-	8/10/2022 7:21	-.-
8/10/2022 6:58	-.-	8/10/2022 7:06	-.-	8/10/2022 7:14	-.-	8/10/2022 7:22	-.-
8/10/2022 6:57	0.04	8/10/2022 7:05	0.04	8/10/2022 7:13	0.05	8/10/2022 7:21	0.05
8/10/2022 6:58	-.-	8/10/2022 7:06	-.-	8/10/2022 7:14	-.-	8/10/2022 7:22	-.-
8/10/2022 6:59	-.-	8/10/2022 7:07	-.-	8/10/2022 7:15	-.-	8/10/2022 7:23	-.-
8/10/2022 6:58	0.04	8/10/2022 7:06	0.05	8/10/2022 7:14	0.04	8/10/2022 7:22	0.05
8/10/2022 6:59	-.-	8/10/2022 7:07	-.-	8/10/2022 7:15	-.-	8/10/2022 7:23	-.-
8/10/2022 7:00	-.-	8/10/2022 7:08	-.-	8/10/2022 7:16	-.-	8/10/2022 7:24	-.-
8/10/2022 6:59	0.05	8/10/2022 7:07	0.05	8/10/2022 7:15	0.05	8/10/2022 7:23	0.04
8/10/2022 7:00	-.-	8/10/2022 7:08	-.-	8/10/2022 7:16	-.-	8/10/2022 7:24	-.-
8/10/2022 7:01	-.-	8/10/2022 7:09	-.-	8/10/2022 7:17	-.-	8/10/2022 7:25	-.-
8/10/2022 7:00	0.04	8/10/2022 7:08	0.06	8/10/2022 7:16	0.06	8/10/2022 7:24	0.04
8/10/2022 7:01	-.-	8/10/2022 7:09	-.-	8/10/2022 7:17	-.-	8/10/2022 7:25	-.-
8/10/2022 7:02	-.-	8/10/2022 7:10	-.-	8/10/2022 7:18	-.-	8/10/2022 7:26	-.-

8/10/2022 7:25	0.05	8/10/2022 7:33	0.04	8/10/2022 7:41	0.05	8/10/2022 7:49	0.04
8/10/2022 7:26	-.-	8/10/2022 7:34	-.-	8/10/2022 7:42	-.-	8/10/2022 7:50	-.-
8/10/2022 7:27	-.-	8/10/2022 7:35	-.-	8/10/2022 7:43	-.-	8/10/2022 7:51	-.-
8/10/2022 7:26	0.05	8/10/2022 7:34	0.05	8/10/2022 7:42	0.05	8/10/2022 7:50	0.04
8/10/2022 7:27	-.-	8/10/2022 7:35	-.-	8/10/2022 7:43	-.-	8/10/2022 7:51	-.-
8/10/2022 7:28	-.-	8/10/2022 7:36	-.-	8/10/2022 7:44	-.-	8/10/2022 7:52	-.-
8/10/2022 7:27	0.05	8/10/2022 7:35	0.04	8/10/2022 7:43	0.05	8/10/2022 7:51	0.04
8/10/2022 7:28	-.-	8/10/2022 7:36	-.-	8/10/2022 7:44	-.-	8/10/2022 7:52	-.-
8/10/2022 7:29	-.-	8/10/2022 7:37	-.-	8/10/2022 7:45	-.-	8/10/2022 7:53	-.-
8/10/2022 7:28	0.05	8/10/2022 7:36	0.05	8/10/2022 7:44	0.04	8/10/2022 7:52	0.1
8/10/2022 7:29	-.-	8/10/2022 7:37	-.-	8/10/2022 7:45	-.-	8/10/2022 7:53	-.-
8/10/2022 7:30	-.-	8/10/2022 7:38	-.-	8/10/2022 7:46	-.-	8/10/2022 7:54	-.-
8/10/2022 7:29	0.04	8/10/2022 7:37	0.04	8/10/2022 7:45	0.04	8/10/2022 7:53	0.04
8/10/2022 7:30	-.-	8/10/2022 7:38	-.-	8/10/2022 7:46	-.-	8/10/2022 7:54	-.-
8/10/2022 7:31	-.-	8/10/2022 7:39	-.-	8/10/2022 7:47	-.-	8/10/2022 7:55	-.-
8/10/2022 7:30	0.05	8/10/2022 7:38	0.04	8/10/2022 7:46	0.06	8/10/2022 7:54	0.05
8/10/2022 7:31	-.-	8/10/2022 7:39	-.-	8/10/2022 7:47	-.-	8/10/2022 7:55	-.-
8/10/2022 7:32	-.-	8/10/2022 7:40	-.-	8/10/2022 7:48	-.-	8/10/2022 7:56	-.-
8/10/2022 7:31	0.05	8/10/2022 7:39	0.05	8/10/2022 7:47	0.04	8/10/2022 7:55	0.04
8/10/2022 7:32	-.-	8/10/2022 7:40	-.-	8/10/2022 7:48	-.-	8/10/2022 7:56	-.-
8/10/2022 7:33	-.-	8/10/2022 7:41	-.-	8/10/2022 7:49	-.-	8/10/2022 7:57	-.-
8/10/2022 7:32	0.04	8/10/2022 7:40	0.05	8/10/2022 7:48	0.04	8/10/2022 7:56	0.07
8/10/2022 7:33	-.-	8/10/2022 7:41	-.-	8/10/2022 7:49	-.-	8/10/2022 7:57	-.-
8/10/2022 7:34	-.-	8/10/2022 7:42	-.-	8/10/2022 7:50	-.-	8/10/2022 7:58	-.-

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8/10/2022 7:59	-.-	8/10/2022 8:07	-.-	8/10/2022 8:15	-.-	8/10/2022 8:23	-.-
8/10/2022 7:58	0.05	8/10/2022 8:06	0.04	8/10/2022 8:14	0.05	8/10/2022 8:22	0.05
8/10/2022 7:59	-.-	8/10/2022 8:07	-.-	8/10/2022 8:15	-.-	8/10/2022 8:23	-.-
8/10/2022 8:00	-.-	8/10/2022 8:08	-.-	8/10/2022 8:16	-.-	8/10/2022 8:24	-.-
8/10/2022 7:59	0.05	8/10/2022 8:07	0.05	8/10/2022 8:15	0.05	8/10/2022 8:23	0.06
8/10/2022 8:00	-.-	8/10/2022 8:08	-.-	8/10/2022 8:16	-.-	8/10/2022 8:24	-.-
8/10/2022 8:01	-.-	8/10/2022 8:09	-.-	8/10/2022 8:17	-.-	8/10/2022 8:25	-.-
8/10/2022 8:00	0.04	8/10/2022 8:08	0.04	8/10/2022 8:16	0.06	8/10/2022 8:24	0.05
8/10/2022 8:01	-.-	8/10/2022 8:09	-.-	8/10/2022 8:17	-.-	8/10/2022 8:25	-.-
8/10/2022 8:02	-.-	8/10/2022 8:10	-.-	8/10/2022 8:18	-.-	8/10/2022 8:26	-.-
8/10/2022 8:01	0.04	8/10/2022 8:09	0.05	8/10/2022 8:17	0.05	8/10/2022 8:25	0.05
8/10/2022 8:02	-.-	8/10/2022 8:10	-.-	8/10/2022 8:18	-.-	8/10/2022 8:26	-.-
8/10/2022 8:03	-.-	8/10/2022 8:11	-.-	8/10/2022 8:19	-.-	8/10/2022 8:27	-.-
8/10/2022 8:02	0.05	8/10/2022 8:10	0.05	8/10/2022 8:18	0.06	8/10/2022 8:26	0.05
8/10/2022 8:03	-.-	8/10/2022 8:11	-.-	8/10/2022 8:19	-.-	8/10/2022 8:27	-.-
8/10/2022 8:04	-.-	8/10/2022 8:12	-.-	8/10/2022 8:20	-.-	8/10/2022 8:28	-.-
8/10/2022 8:03	0.04	8/10/2022 8:11	0.04	8/10/2022 8:19	0.04	8/10/2022 8:27	0.04
8/10/2022 8:04	-.-	8/10/2022 8:12	-.-	8/10/2022 8:20	-.-	8/10/2022 8:28	-.-
8/10/2022 8:05	-.-	8/10/2022 8:13	-.-	8/10/2022 8:21	-.-	8/10/2022 8:29	-.-
8/10/2022 8:04	0.04	8/10/2022 8:12	0.04	8/10/2022 8:20	0.05	8/10/2022 8:28	0.05
8/10/2022 8:05	-.-	8/10/2022 8:13	-.-	8/10/2022 8:21	-.-	8/10/2022 8:29	-.-
8/10/2022 8:06	-.-	8/10/2022 8:14	-.-	8/10/2022 8:22	-.-	8/10/2022 8:30	-.-

8/10/2022		8/10/2022		8/10/2022		8/10/2022	
8:29	0.04	8:37	0.06	8:45	0.05	8:53	0.04
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
8:30	-.-	8:38	-.-	8:46	-.-	8:54	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
8:31	-.-	8:39	-.-	8:47	-.-	8:55	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
8:30	0.04	8:38	0.05	8:46	0.05	8:54	0.08
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
8:31	-.-	8:39	-.-	8:47	-.-	8:55	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
8:32	-.-	8:40	-.-	8:48	-.-	8:56	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
8:31	0.05	8:39	0.04	8:47	0.05	8:55	0.04
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
8:32	-.-	8:40	-.-	8:48	-.-	8:56	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
8:33	-.-	8:41	-.-	8:49	-.-	8:57	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
8:32	0.04	8:40	0.05	8:48	0.05	8:56	0.05
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
8:33	-.-	8:41	-.-	8:49	-.-	8:57	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
8:34	-.-	8:42	-.-	8:50	-.-	8:58	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
8:33	0.05	8:41	0.05	8:49	0.05	8:57	0.06
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
8:34	-.-	8:42	-.-	8:50	-.-	8:58	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
8:35	-.-	8:43	-.-	8:51	-.-	8:59	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
8:34	0.05	8:42	0.04	8:50	0.05	8:58	0.05
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
8:35	-.-	8:43	-.-	8:51	-.-	8:59	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
8:36	-.-	8:44	-.-	8:52	-.-	9:00	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
8:35	0.05	8:43	0.05	8:51	0.05	8:59	0.05
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
8:36	-.-	8:44	-.-	8:52	-.-	9:00	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
8:37	-.-	8:45	-.-	8:53	-.-	9:01	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
8:36	0.05	8:44	0.05	8:52	0.04	9:00	0.05
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
8:37	-.-	8:45	-.-	8:53	-.-	9:01	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
8:38	-.-	8:46	-.-	8:54	-.-	9:02	-.-

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8/10/2022 9:02	-.-	8/10/2022 9:10	-.-	8/10/2022 9:18	-.-	8/10/2022 9:26	-.-
8/10/2022 9:03	-.-	8/10/2022 9:11	-.-	8/10/2022 9:19	-.-	8/10/2022 9:27	-.-
8/10/2022 9:02	0.04	8/10/2022 9:10	0.05	8/10/2022 9:18	0.05	8/10/2022 9:26	0.06
8/10/2022 9:03	-.-	8/10/2022 9:11	-.-	8/10/2022 9:19	-.-	8/10/2022 9:27	-.-
8/10/2022 9:04	-.-	8/10/2022 9:12	-.-	8/10/2022 9:20	-.-	8/10/2022 9:28	-.-
8/10/2022 9:03	0.04	8/10/2022 9:11	0.04	8/10/2022 9:19	0.05	8/10/2022 9:27	0.05
8/10/2022 9:04	-.-	8/10/2022 9:12	-.-	8/10/2022 9:20	-.-	8/10/2022 9:28	-.-
8/10/2022 9:05	-.-	8/10/2022 9:13	-.-	8/10/2022 9:21	-.-	8/10/2022 9:29	-.-
8/10/2022 9:04	0.04	8/10/2022 9:12	0.05	8/10/2022 9:20	0.05	8/10/2022 9:28	0.05
8/10/2022 9:05	-.-	8/10/2022 9:13	-.-	8/10/2022 9:21	-.-	8/10/2022 9:29	-.-
8/10/2022 9:06	-.-	8/10/2022 9:14	-.-	8/10/2022 9:22	-.-	8/10/2022 9:30	-.-
8/10/2022 9:05	0.04	8/10/2022 9:13	0.05	8/10/2022 9:21	0.05	8/10/2022 9:29	0.05
8/10/2022 9:06	-.-	8/10/2022 9:14	-.-	8/10/2022 9:22	-.-	8/10/2022 9:30	-.-
8/10/2022 9:07	-.-	8/10/2022 9:15	-.-	8/10/2022 9:23	-.-	8/10/2022 9:31	-.-
8/10/2022 9:06	0.05	8/10/2022 9:14	0.05	8/10/2022 9:22	0.04	8/10/2022 9:30	0.05
8/10/2022 9:07	-.-	8/10/2022 9:15	-.-	8/10/2022 9:23	-.-	8/10/2022 9:31	-.-
8/10/2022 9:08	-.-	8/10/2022 9:16	-.-	8/10/2022 9:24	-.-	8/10/2022 9:32	-.-
8/10/2022 9:07	0.05	8/10/2022 9:15	0.07	8/10/2022 9:23	0.08	8/10/2022 9:31	0.05
8/10/2022 9:08	-.-	8/10/2022 9:16	-.-	8/10/2022 9:24	-.-	8/10/2022 9:32	-.-
8/10/2022 9:09	-.-	8/10/2022 9:17	-.-	8/10/2022 9:25	-.-	8/10/2022 9:33	-.-
8/10/2022 9:08	0.05	8/10/2022 9:16	0.04	8/10/2022 9:24	0.04	8/10/2022 9:32	0.05
8/10/2022 9:09	-.-	8/10/2022 9:17	-.-	8/10/2022 9:25	-.-	8/10/2022 9:33	-.-
8/10/2022 9:10	-.-	8/10/2022 9:18	-.-	8/10/2022 9:26	-.-	8/10/2022 9:34	-.-

8/10/2022		8/10/2022		8/10/2022		8/10/2022	
9:33	0.05	9:41	0.05	9:49	0.07	9:57	0.05
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
9:34	-.-	9:42	-.-	9:50	-.-	9:58	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
9:35	-.-	9:43	-.-	9:51	-.-	9:59	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
9:34	0.04	9:42	0.04	9:50	0.05	9:58	0.05
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
9:35	-.-	9:43	-.-	9:51	-.-	9:59	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
9:36	-.-	9:44	-.-	9:52	-.-	10:00	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
9:35	0.05	9:43	0.04	9:51	0.04	9:59	0.05
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
9:36	-.-	9:44	-.-	9:52	-.-	10:00	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
9:37	-.-	9:45	-.-	9:53	-.-	10:01	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
9:36	0.05	9:44	0.05	9:52	0.06	10:00	0.05
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
9:37	-.-	9:45	-.-	9:53	-.-	10:01	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
9:38	-.-	9:46	-.-	9:54	-.-	10:02	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
9:37	0.05	9:45	0.05	9:53	0.05	10:01	0.04
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
9:38	-.-	9:46	-.-	9:54	-.-	10:02	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
9:39	-.-	9:47	-.-	9:55	-.-	10:03	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
9:38	0.05	9:46	0.04	9:54	0.05	10:02	0.05
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
9:39	-.-	9:47	-.-	9:55	-.-	10:03	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
9:40	-.-	9:48	-.-	9:56	-.-	10:04	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
9:39	0.04	9:47	0.05	9:55	0.04	10:03	0.05
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
9:40	-.-	9:48	-.-	9:56	-.-	10:04	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
9:41	-.-	9:49	-.-	9:57	-.-	10:05	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
9:40	0.05	9:48	0.04	9:56	0.04	10:04	0.04
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
9:41	-.-	9:49	-.-	9:57	-.-	10:05	-.-
8/10/2022		8/10/2022		8/10/2022		8/10/2022	
9:42	-.-	9:50	-.-	9:58	-.-	10:06	-.-

8/10/2022 10:05	0.04	8/10/2022 10:13	0.05	8/10/2022 10:21	0.06	8/10/2022 10:29	0.04
8/10/2022 10:06	-.-	8/10/2022 10:14	-.-	8/10/2022 10:22	-.-	8/10/2022 10:30	-.-
8/10/2022 10:07	-.-	8/10/2022 10:15	-.-	8/10/2022 10:23	-.-	8/10/2022 10:31	-.-
8/10/2022 10:06	0.04	8/10/2022 10:14	0.05	8/10/2022 10:22	0.08	8/10/2022 10:30	0.05
8/10/2022 10:07	-.-	8/10/2022 10:15	-.-	8/10/2022 10:23	-.-	8/10/2022 10:31	-.-
8/10/2022 10:08	-.-	8/10/2022 10:16	-.-	8/10/2022 10:24	-.-	8/10/2022 10:32	-.-
8/10/2022 10:07	0.06	8/10/2022 10:15	0.05	8/10/2022 10:23	0.09	8/10/2022 10:31	0.06
8/10/2022 10:08	-.-	8/10/2022 10:16	-.-	8/10/2022 10:24	-.-	8/10/2022 10:32	-.-
8/10/2022 10:09	-.-	8/10/2022 10:17	-.-	8/10/2022 10:25	-.-	8/10/2022 10:33	-.-
8/10/2022 10:08	0.05	8/10/2022 10:16	0.04	8/10/2022 10:24	0.07	8/10/2022 10:32	0.08
8/10/2022 10:09	-.-	8/10/2022 10:17	-.-	8/10/2022 10:25	-.-	8/10/2022 10:33	-.-
8/10/2022 10:10	-.-	8/10/2022 10:18	-.-	8/10/2022 10:26	-.-	8/10/2022 10:34	-.-
8/10/2022 10:09	0.05	8/10/2022 10:17	0.04	8/10/2022 10:25	0.05	8/10/2022 10:33	0.05
8/10/2022 10:10	-.-	8/10/2022 10:18	-.-	8/10/2022 10:26	-.-	8/10/2022 10:34	-.-
8/10/2022 10:11	-.-	8/10/2022 10:19	-.-	8/10/2022 10:27	-.-	8/10/2022 10:35	-.-
8/10/2022 10:10	0.05	8/10/2022 10:18	0.05	8/10/2022 10:26	0.06	8/10/2022 10:34	0.04
8/10/2022 10:11	-.-	8/10/2022 10:19	-.-	8/10/2022 10:27	-.-	8/10/2022 10:35	-.-
8/10/2022 10:12	-.-	8/10/2022 10:20	-.-	8/10/2022 10:28	-.-	8/10/2022 10:36	-.-
8/10/2022 10:11	0.04	8/10/2022 10:19	0.06	8/10/2022 10:27	0.08	8/10/2022 10:35	0.04
8/10/2022 10:12	-.-	8/10/2022 10:20	-.-	8/10/2022 10:28	-.-	8/10/2022 10:36	-.-
8/10/2022 10:13	-.-	8/10/2022 10:21	-.-	8/10/2022 10:29	-.-	8/10/2022 10:37	-.-
8/10/2022 10:12	0.05	8/10/2022 10:20	0.06	8/10/2022 10:28	0.04	8/10/2022 10:36	0.05
8/10/2022 10:13	-.-	8/10/2022 10:21	-.-	8/10/2022 10:29	-.-	8/10/2022 10:37	-.-
8/10/2022 10:14	-.-	8/10/2022 10:22	-.-	8/10/2022 10:30	-.-	8/10/2022 10:38	-.-

8/10/2022 10:37	0.05	8/10/2022 10:45	0.05	8/10/2022 10:53	0.06	8/10/2022 11:01	0.1
8/10/2022 10:38	-.-	8/10/2022 10:46	-.-	8/10/2022 10:54	-.-	8/10/2022 11:02	-.-
8/10/2022 10:39	-.-	8/10/2022 10:47	-.-	8/10/2022 10:55	-.-	8/10/2022 11:03	-.-
8/10/2022 10:38	0.04	8/10/2022 10:46	0.09	8/10/2022 10:54	0.06	8/10/2022 11:02	0.11
8/10/2022 10:39	-.-	8/10/2022 10:47	-.-	8/10/2022 10:55	-.-	8/10/2022 11:03	-.-
8/10/2022 10:40	-.-	8/10/2022 10:48	-.-	8/10/2022 10:56	-.-	8/10/2022 11:04	-.-
8/10/2022 10:39	0.04	8/10/2022 10:47	0.04	8/10/2022 10:55	0.06	8/10/2022 11:03	0.07
8/10/2022 10:40	-.-	8/10/2022 10:48	-.-	8/10/2022 10:56	-.-	8/10/2022 11:04	-.-
8/10/2022 10:41	-.-	8/10/2022 10:49	-.-	8/10/2022 10:57	-.-	8/10/2022 11:05	-.-
8/10/2022 10:40	0.06	8/10/2022 10:48	0.05	8/10/2022 10:56	0.05	8/10/2022 11:04	0.07
8/10/2022 10:41	-.-	8/10/2022 10:49	-.-	8/10/2022 10:57	-.-	8/10/2022 11:05	-.-
8/10/2022 10:42	-.-	8/10/2022 10:50	-.-	8/10/2022 10:58	-.-	8/10/2022 11:06	-.-
8/10/2022 10:41	0.04	8/10/2022 10:49	0.05	8/10/2022 10:57	0.05	8/10/2022 11:05	0.06
8/10/2022 10:42	-.-	8/10/2022 10:50	-.-	8/10/2022 10:58	-.-	8/10/2022 11:06	-.-
8/10/2022 10:43	-.-	8/10/2022 10:51	-.-	8/10/2022 10:59	-.-	8/10/2022 11:07	-.-
8/10/2022 10:42	0.05	8/10/2022 10:50	0.1	8/10/2022 10:58	0.05	8/10/2022 11:06	0.05
8/10/2022 10:43	-.-	8/10/2022 10:51	-.-	8/10/2022 10:59	-.-	8/10/2022 11:07	-.-
8/10/2022 10:44	-.-	8/10/2022 10:52	-.-	8/10/2022 11:00	-.-	8/10/2022 11:08	-.-
8/10/2022 10:43	0.05	8/10/2022 10:51	0.06	8/10/2022 10:59	0.06	8/10/2022 11:07	0.05
8/10/2022 10:44	-.-	8/10/2022 10:52	-.-	8/10/2022 11:00	-.-	8/10/2022 11:08	-.-
8/10/2022 10:45	-.-	8/10/2022 10:53	-.-	8/10/2022 11:01	-.-	8/10/2022 11:09	-.-
8/10/2022 10:44	0.04	8/10/2022 10:52	0.04	8/10/2022 11:00	0.07	8/10/2022 11:08	0.05
8/10/2022 10:45	-.-	8/10/2022 10:53	-.-	8/10/2022 11:01	-.-	8/10/2022 11:09	-.-
8/10/2022 10:46	-.-	8/10/2022 10:54	-.-	8/10/2022 11:02	-.-	8/10/2022 11:10	-.-

8/10/2022 11:09	0.05	8/10/2022 11:17	0.05	8/10/2022 11:25	0.06	8/10/2022 11:33	0.05
8/10/2022 11:10	-.-	8/10/2022 11:18	-.-	8/10/2022 11:26	-.-	8/10/2022 11:34	-.-
8/10/2022 11:11	-.-	8/10/2022 11:19	-.-	8/10/2022 11:27	-.-	8/10/2022 11:35	-.-
8/10/2022 11:10	0.06	8/10/2022 11:18	0.05	8/10/2022 11:26	0.08	8/10/2022 11:34	0.07
8/10/2022 11:11	-.-	8/10/2022 11:19	-.-	8/10/2022 11:27	-.-	8/10/2022 11:35	-.-
8/10/2022 11:12	-.-	8/10/2022 11:20	-.-	8/10/2022 11:28	-.-	8/10/2022 11:36	-.-
8/10/2022 11:11	0.04	8/10/2022 11:19	0.06	8/10/2022 11:27	0.07	8/10/2022 11:35	0.05
8/10/2022 11:12	-.-	8/10/2022 11:20	-.-	8/10/2022 11:28	-.-	8/10/2022 11:36	-.-
8/10/2022 11:13	-.-	8/10/2022 11:21	-.-	8/10/2022 11:29	-.-	8/10/2022 11:37	-.-
8/10/2022 11:12	0.08	8/10/2022 11:20	0.06	8/10/2022 11:28	0.06	8/10/2022 11:36	0.05
8/10/2022 11:13	-.-	8/10/2022 11:21	-.-	8/10/2022 11:29	-.-	8/10/2022 11:37	-.-
8/10/2022 11:14	-.-	8/10/2022 11:22	-.-	8/10/2022 11:30	-.-	8/10/2022 11:38	-.-
8/10/2022 11:13	0.08	8/10/2022 11:21	0.11	8/10/2022 11:29	0.12	8/10/2022 11:37	0.05
8/10/2022 11:14	-.-	8/10/2022 11:22	-.-	8/10/2022 11:30	-.-	8/10/2022 11:38	-.-
8/10/2022 11:15	-.-	8/10/2022 11:23	-.-	8/10/2022 11:31	-.-	8/10/2022 11:39	-.-
8/10/2022 11:14	0.06	8/10/2022 11:22	0.05	8/10/2022 11:30	0.12	8/10/2022 11:38	0.07
8/10/2022 11:15	-.-	8/10/2022 11:23	-.-	8/10/2022 11:31	-.-	8/10/2022 11:39	-.-
8/10/2022 11:16	-.-	8/10/2022 11:24	-.-	8/10/2022 11:32	-.-	8/10/2022 11:40	-.-
8/10/2022 11:15	0.07	8/10/2022 11:23	0.07	8/10/2022 11:31	0.05	8/10/2022 11:39	0.05
8/10/2022 11:16	-.-	8/10/2022 11:24	-.-	8/10/2022 11:32	-.-	8/10/2022 11:40	-.-
8/10/2022 11:17	-.-	8/10/2022 11:25	-.-	8/10/2022 11:33	-.-	8/10/2022 11:41	-.-
8/10/2022 11:16	0.06	8/10/2022 11:24	0.07	8/10/2022 11:32	0.07	8/10/2022 11:40	0.05
8/10/2022 11:17	-.-	8/10/2022 11:25	-.-	8/10/2022 11:33	-.-	8/10/2022 11:41	-.-
8/10/2022 11:18	-.-	8/10/2022 11:26	-.-	8/10/2022 11:34	-.-	8/10/2022 11:42	-.-

8/10/2022 11:41	0.06	8/10/2022 11:49	0.05	8/10/2022 11:57	0.05	8/10/2022 12:05	0.05
8/10/2022 11:42	-.-	8/10/2022 11:50	-.-	8/10/2022 11:58	-.-	8/10/2022 12:06	-.-
8/10/2022 11:43	-.-	8/10/2022 11:51	-.-	8/10/2022 11:59	-.-	8/10/2022 12:07	-.-
8/10/2022 11:42	0.06	8/10/2022 11:50	0.1	8/10/2022 11:58	0.09	8/10/2022 12:06	0.05
8/10/2022 11:43	-.-	8/10/2022 11:51	-.-	8/10/2022 11:59	-.-	8/10/2022 12:07	-.-
8/10/2022 11:44	-.-	8/10/2022 11:52	-.-	8/10/2022 12:00	-.-	8/10/2022 12:08	-.-
8/10/2022 11:43	0.08	8/10/2022 11:51	0.07	8/10/2022 11:59	0.07	8/10/2022 12:07	0.05
8/10/2022 11:44	-.-	8/10/2022 11:52	-.-	8/10/2022 12:00	-.-	8/10/2022 12:08	-.-
8/10/2022 11:45	-.-	8/10/2022 11:53	-.-	8/10/2022 12:01	-.-	8/10/2022 12:09	-.-
8/10/2022 11:44	0.06	8/10/2022 11:52	0.08	8/10/2022 12:00	0.05	8/10/2022 12:08	0.04
8/10/2022 11:45	-.-	8/10/2022 11:53	-.-	8/10/2022 12:01	-.-	8/10/2022 12:09	-.-
8/10/2022 11:46	-.-	8/10/2022 11:54	-.-	8/10/2022 12:02	-.-	8/10/2022 12:10	-.-
8/10/2022 11:45	0.05	8/10/2022 11:53	0.08	8/10/2022 12:01	0.05	8/10/2022 12:09	0.06
8/10/2022 11:46	-.-	8/10/2022 11:54	-.-	8/10/2022 12:02	-.-	8/10/2022 12:10	-.-
8/10/2022 11:47	-.-	8/10/2022 11:55	-.-	8/10/2022 12:03	-.-	8/10/2022 12:11	-.-
8/10/2022 11:46	0.05	8/10/2022 11:54	0.04	8/10/2022 12:02	0.06	8/10/2022 12:10	0.05
8/10/2022 11:47	-.-	8/10/2022 11:55	-.-	8/10/2022 12:03	-.-	8/10/2022 12:11	-.-
8/10/2022 11:48	-.-	8/10/2022 11:56	-.-	8/10/2022 12:04	-.-	8/10/2022 12:12	-.-
8/10/2022 11:47	0.05	8/10/2022 11:55	0.06	8/10/2022 12:03	0.11	8/10/2022 12:11	0.07
8/10/2022 11:48	-.-	8/10/2022 11:56	-.-	8/10/2022 12:04	-.-	8/10/2022 12:12	-.-
8/10/2022 11:49	-.-	8/10/2022 11:57	-.-	8/10/2022 12:05	-.-	8/10/2022 12:13	-.-
8/10/2022 11:48	0.08	8/10/2022 11:56	0.07	8/10/2022 12:04	0.14	8/10/2022 12:12	0.08
8/10/2022 11:49	-.-	8/10/2022 11:57	-.-	8/10/2022 12:05	-.-	8/10/2022 12:13	-.-
8/10/2022 11:50	-.-	8/10/2022 11:58	-.-	8/10/2022 12:06	-.-	8/10/2022 12:14	-.-

8/10/2022 12:13	0.09	8/10/2022 12:21	0.06	8/10/2022 12:29	0.05	8/10/2022 12:37	0.05
8/10/2022 12:14	-.-	8/10/2022 12:22	-.-	8/10/2022 12:30	-.-	8/10/2022 12:38	-.-
8/10/2022 12:15	-.-	8/10/2022 12:23	-.-	8/10/2022 12:31	-.-	8/10/2022 12:39	-.-
8/10/2022 12:14	0.06	8/10/2022 12:22	0.08	8/10/2022 12:30	0.05	8/10/2022 12:38	0.05
8/10/2022 12:15	-.-	8/10/2022 12:23	-.-	8/10/2022 12:31	-.-	8/10/2022 12:39	-.-
8/10/2022 12:16	-.-	8/10/2022 12:24	-.-	8/10/2022 12:32	-.-	8/10/2022 12:40	-.-
8/10/2022 12:15	0.05	8/10/2022 12:23	0.05	8/10/2022 12:31	0.06	8/10/2022 12:39	0.06
8/10/2022 12:16	-.-	8/10/2022 12:24	-.-	8/10/2022 12:32	-.-	8/10/2022 12:40	-.-
8/10/2022 12:17	-.-	8/10/2022 12:25	-.-	8/10/2022 12:33	-.-	8/10/2022 12:41	-.-
8/10/2022 12:16	0.04	8/10/2022 12:24	0.05	8/10/2022 12:32	0.08	8/10/2022 12:40	0.05
8/10/2022 12:17	-.-	8/10/2022 12:25	-.-	8/10/2022 12:33	-.-	8/10/2022 12:41	-.-
8/10/2022 12:18	-.-	8/10/2022 12:26	-.-	8/10/2022 12:34	-.-	8/10/2022 12:42	-.-
8/10/2022 12:17	0.05	8/10/2022 12:25	0.04	8/10/2022 12:33	0.04	8/10/2022 12:41	0.04
8/10/2022 12:18	-.-	8/10/2022 12:26	-.-	8/10/2022 12:34	-.-	8/10/2022 12:42	-.-
8/10/2022 12:19	-.-	8/10/2022 12:27	-.-	8/10/2022 12:35	-.-	8/10/2022 12:43	-.-
8/10/2022 12:18	0.05	8/10/2022 12:26	0.05	8/10/2022 12:34	0.05	8/10/2022 12:42	0.05
8/10/2022 12:19	-.-	8/10/2022 12:27	-.-	8/10/2022 12:35	-.-	8/10/2022 12:43	-.-
8/10/2022 12:20	-.-	8/10/2022 12:28	-.-	8/10/2022 12:36	-.-	8/10/2022 12:44	-.-
8/10/2022 12:19	0.09	8/10/2022 12:27	0.09	8/10/2022 12:35	0.06	8/10/2022 12:43	0.05
8/10/2022 12:20	-.-	8/10/2022 12:28	-.-	8/10/2022 12:36	-.-	8/10/2022 12:44	-.-
8/10/2022 12:21	-.-	8/10/2022 12:29	-.-	8/10/2022 12:37	-.-	8/10/2022 12:45	-.-
8/10/2022 12:20	0.07	8/10/2022 12:28	0.04	8/10/2022 12:36	0.05	8/10/2022 12:44	0.05
8/10/2022 12:21	-.-	8/10/2022 12:29	-.-	8/10/2022 12:37	-.-	8/10/2022 12:45	-.-
8/10/2022 12:22	-.-	8/10/2022 12:30	-.-	8/10/2022 12:38	-.-	8/10/2022 12:46	-.-

8/10/2022 12:45	0.05	8/10/2022 12:53	0.05	8/10/2022 13:01	0.04	8/10/2022 13:09	0.05
8/10/2022 12:46	-.-	8/10/2022 12:54	-.-	8/10/2022 13:02	-.-	8/10/2022 13:10	-.-
8/10/2022 12:47	-.-	8/10/2022 12:55	-.-	8/10/2022 13:03	-.-	8/10/2022 13:11	-.-
8/10/2022 12:46	0.05	8/10/2022 12:54	0.05	8/10/2022 13:02	0.05	8/10/2022 13:10	0.05
8/10/2022 12:47	-.-	8/10/2022 12:55	-.-	8/10/2022 13:03	-.-	8/10/2022 13:11	-.-
8/10/2022 12:48	-.-	8/10/2022 12:56	-.-	8/10/2022 13:04	-.-	8/10/2022 13:12	-.-
8/10/2022 12:47	0.05	8/10/2022 12:55	0.06	8/10/2022 13:03	0.05	8/10/2022 13:11	0.05
8/10/2022 12:48	-.-	8/10/2022 12:56	-.-	8/10/2022 13:04	-.-	8/10/2022 13:12	-.-
8/10/2022 12:49	-.-	8/10/2022 12:57	-.-	8/10/2022 13:05	-.-	8/10/2022 13:13	-.-
8/10/2022 12:48	0.05	8/10/2022 12:56	0.05	8/10/2022 13:04	0.05	8/10/2022 13:12	0.05
8/10/2022 12:49	-.-	8/10/2022 12:57	-.-	8/10/2022 13:05	-.-	8/10/2022 13:13	-.-
8/10/2022 12:50	-.-	8/10/2022 12:58	-.-	8/10/2022 13:06	-.-	8/10/2022 13:14	-.-
8/10/2022 12:49	0.04	8/10/2022 12:57	0.04	8/10/2022 13:05	0.05	8/10/2022 13:13	0.05
8/10/2022 12:50	-.-	8/10/2022 12:58	-.-	8/10/2022 13:06	-.-	8/10/2022 13:14	-.-
8/10/2022 12:51	-.-	8/10/2022 12:59	-.-	8/10/2022 13:07	-.-	8/10/2022 13:15	-.-
8/10/2022 12:50	0.05	8/10/2022 12:58	0.04	8/10/2022 13:06	0.05	8/10/2022 13:14	0.05
8/10/2022 12:51	-.-	8/10/2022 12:59	-.-	8/10/2022 13:07	-.-	8/10/2022 13:15	-.-
8/10/2022 12:52	-.-	8/10/2022 13:00	-.-	8/10/2022 13:08	-.-	8/10/2022 13:16	-.-
8/10/2022 12:51	0.05	8/10/2022 12:59	0.05	8/10/2022 13:07	0.05	8/10/2022 13:15	0.05
8/10/2022 12:52	-.-	8/10/2022 13:00	-.-	8/10/2022 13:08	-.-	8/10/2022 13:16	-.-
8/10/2022 12:53	-.-	8/10/2022 13:01	-.-	8/10/2022 13:09	-.-	8/10/2022 13:17	-.-
8/10/2022 12:52	0.05	8/10/2022 13:00	0.05	8/10/2022 13:08	0.04	8/10/2022 13:16	0.05
8/10/2022 12:53	-.-	8/10/2022 13:01	-.-	8/10/2022 13:09	-.-	8/10/2022 13:17	-.-
8/10/2022 12:54	-.-	8/10/2022 13:02	-.-	8/10/2022 13:10	-.-	8/10/2022 13:18	-.-

8/10/2022 13:17	0.06	8/10/2022 13:25	0.05	8/10/2022 13:33	0.04	8/10/2022 13:41	0.06
8/10/2022 13:18	-.-	8/10/2022 13:26	-.-	8/10/2022 13:34	-.-	8/10/2022 13:42	-.-
8/10/2022 13:19	-.-	8/10/2022 13:27	-.-	8/10/2022 13:35	-.-	8/10/2022 13:43	-.-
8/10/2022 13:18	0.05	8/10/2022 13:26	0.05	8/10/2022 13:34	0.05	8/10/2022 13:42	0.05
8/10/2022 13:19	-.-	8/10/2022 13:27	-.-	8/10/2022 13:35	-.-	8/10/2022 13:43	-.-
8/10/2022 13:20	-.-	8/10/2022 13:28	-.-	8/10/2022 13:36	-.-	8/10/2022 13:44	-.-
8/10/2022 13:19	0.05	8/10/2022 13:27	0.04	8/10/2022 13:35	0.05	8/10/2022 13:43	0.05
8/10/2022 13:20	-.-	8/10/2022 13:28	-.-	8/10/2022 13:36	-.-	8/10/2022 13:44	-.-
8/10/2022 13:21	-.-	8/10/2022 13:29	-.-	8/10/2022 13:37	-.-	8/10/2022 13:45	-.-
8/10/2022 13:20	0.05	8/10/2022 13:28	0.05	8/10/2022 13:36	0.05	8/10/2022 13:44	0.05
8/10/2022 13:21	-.-	8/10/2022 13:29	-.-	8/10/2022 13:37	-.-	8/10/2022 13:45	-.-
8/10/2022 13:22	-.-	8/10/2022 13:30	-.-	8/10/2022 13:38	-.-	8/10/2022 13:46	-.-
8/10/2022 13:21	0.05	8/10/2022 13:29	0.05	8/10/2022 13:37	0.04	8/10/2022 13:45	0.05
8/10/2022 13:22	-.-	8/10/2022 13:30	-.-	8/10/2022 13:38	-.-	8/10/2022 13:46	-.-
8/10/2022 13:23	-.-	8/10/2022 13:31	-.-	8/10/2022 13:39	-.-	8/10/2022 13:47	-.-
8/10/2022 13:22	0.05	8/10/2022 13:30	0.05	8/10/2022 13:38	0.05	8/10/2022 13:46	0.05
8/10/2022 13:23	-.-	8/10/2022 13:31	-.-	8/10/2022 13:39	-.-	8/10/2022 13:47	-.-
8/10/2022 13:24	-.-	8/10/2022 13:32	-.-	8/10/2022 13:40	-.-	8/10/2022 13:48	-.-
8/10/2022 13:23	0.04	8/10/2022 13:31	0.04	8/10/2022 13:39	0.05	8/10/2022 13:47	0.05
8/10/2022 13:24	-.-	8/10/2022 13:32	-.-	8/10/2022 13:40	-.-	8/10/2022 13:48	-.-
8/10/2022 13:25	-.-	8/10/2022 13:33	-.-	8/10/2022 13:41	-.-	8/10/2022 13:49	-.-
8/10/2022 13:24	0.05	8/10/2022 13:32	0.05	8/10/2022 13:40	0.05	8/10/2022 13:48	0.07
8/10/2022 13:25	-.-	8/10/2022 13:33	-.-	8/10/2022 13:41	-.-	8/10/2022 13:49	-.-
8/10/2022 13:26	-.-	8/10/2022 13:34	-.-	8/10/2022 13:42	-.-	8/10/2022 13:50	-.-

8/10/2022 13:49	0.1	8/10/2022 13:57	0.05	8/10/2022 14:05	0.05	8/10/2022 14:13	0.05
8/10/2022 13:50	-.-	8/10/2022 13:58	-.-	8/10/2022 14:06	-.-	8/10/2022 14:14	-.-
8/10/2022 13:51	-.-	8/10/2022 13:59	-.-	8/10/2022 14:07	-.-	8/10/2022 14:15	-.-
8/10/2022 13:50	0.07	8/10/2022 13:58	0.05	8/10/2022 14:06	0.05	8/10/2022 14:14	0.05
8/10/2022 13:51	-.-	8/10/2022 13:59	-.-	8/10/2022 14:07	-.-	8/10/2022 14:15	-.-
8/10/2022 13:52	-.-	8/10/2022 14:00	-.-	8/10/2022 14:08	-.-	8/10/2022 14:16	-.-
8/10/2022 13:51	0.05	8/10/2022 13:59	0.06	8/10/2022 14:07	0.05	8/10/2022 14:15	0.06
8/10/2022 13:52	-.-	8/10/2022 14:00	-.-	8/10/2022 14:08	-.-	8/10/2022 14:16	-.-
8/10/2022 13:53	-.-	8/10/2022 14:01	-.-	8/10/2022 14:09	-.-	8/10/2022 14:17	-.-
8/10/2022 13:52	0.05	8/10/2022 14:00	0.06	8/10/2022 14:08	0.05	8/10/2022 14:16	0.05
8/10/2022 13:53	-.-	8/10/2022 14:01	-.-	8/10/2022 14:09	-.-	8/10/2022 14:17	-.-
8/10/2022 13:54	-.-	8/10/2022 14:02	-.-	8/10/2022 14:10	-.-	8/10/2022 14:18	-.-
8/10/2022 13:53	0.07	8/10/2022 14:01	0.05	8/10/2022 14:09	0.05	8/10/2022 14:17	0.04
8/10/2022 13:54	-.-	8/10/2022 14:02	-.-	8/10/2022 14:10	-.-	8/10/2022 14:18	-.-
8/10/2022 13:55	-.-	8/10/2022 14:03	-.-	8/10/2022 14:11	-.-	8/10/2022 14:19	-.-
8/10/2022 13:54	0.07	8/10/2022 14:02	0.04	8/10/2022 14:10	0.04	8/10/2022 14:18	0.05
8/10/2022 13:55	-.-	8/10/2022 14:03	-.-	8/10/2022 14:11	-.-	8/10/2022 14:19	-.-
8/10/2022 13:56	-.-	8/10/2022 14:04	-.-	8/10/2022 14:12	-.-	8/10/2022 14:20	-.-
8/10/2022 13:55	0.07	8/10/2022 14:03	0.05	8/10/2022 14:11	0.05	8/10/2022 14:19	0.05
8/10/2022 13:56	-.-	8/10/2022 14:04	-.-	8/10/2022 14:12	-.-	8/10/2022 14:20	-.-
8/10/2022 13:57	-.-	8/10/2022 14:05	-.-	8/10/2022 14:13	-.-	8/10/2022 14:21	-.-
8/10/2022 13:56	0.05	8/10/2022 14:04	0.05	8/10/2022 14:12	0.07	8/10/2022 14:20	0.06
8/10/2022 13:57	-.-	8/10/2022 14:05	-.-	8/10/2022 14:13	-.-	8/10/2022 14:21	-.-
8/10/2022 13:58	-.-	8/10/2022 14:06	-.-	8/10/2022 14:14	-.-	8/10/2022 14:22	-.-

8/10/2022 14:21	0.04	8/10/2022 14:29	0.05	8/10/2022 14:37	0.05	8/10/2022 14:45	0.05
8/10/2022 14:22	-.-	8/10/2022 14:30	-.-	8/10/2022 14:38	-.-	8/10/2022 14:46	-.-
8/10/2022 14:23	-.-	8/10/2022 14:31	-.-	8/10/2022 14:39	-.-	8/10/2022 14:47	-.-
8/10/2022 14:22	0.05	8/10/2022 14:30	0.05	8/10/2022 14:38	0.04	8/10/2022 14:46	0.04
8/10/2022 14:23	-.-	8/10/2022 14:31	-.-	8/10/2022 14:39	-.-	8/10/2022 14:47	-.-
8/10/2022 14:24	-.-	8/10/2022 14:32	-.-	8/10/2022 14:40	-.-	8/10/2022 14:48	-.-
8/10/2022 14:23	0.06	8/10/2022 14:31	0.05	8/10/2022 14:39	0.06	8/10/2022 14:47	0.04
8/10/2022 14:24	-.-	8/10/2022 14:32	-.-	8/10/2022 14:40	-.-	8/10/2022 14:48	-.-
8/10/2022 14:25	-.-	8/10/2022 14:33	-.-	8/10/2022 14:41	-.-	8/10/2022 14:49	-.-
8/10/2022 14:24	0.05	8/10/2022 14:32	0.04	8/10/2022 14:40	0.05	8/10/2022 14:48	0.05
8/10/2022 14:25	-.-	8/10/2022 14:33	-.-	8/10/2022 14:41	-.-	8/10/2022 14:49	-.-
8/10/2022 14:26	-.-	8/10/2022 14:34	-.-	8/10/2022 14:42	-.-	8/10/2022 14:50	-.-
8/10/2022 14:25	0.04	8/10/2022 14:33	0.05	8/10/2022 14:41	0.05	8/10/2022 14:49	0.05
8/10/2022 14:26	-.-	8/10/2022 14:34	-.-	8/10/2022 14:42	-.-	8/10/2022 14:50	-.-
8/10/2022 14:27	-.-	8/10/2022 14:35	-.-	8/10/2022 14:43	-.-	8/10/2022 14:51	-.-
8/10/2022 14:26	0.05	8/10/2022 14:34	0.04	8/10/2022 14:42	0.05	8/10/2022 14:50	0.05
8/10/2022 14:27	-.-	8/10/2022 14:35	-.-	8/10/2022 14:43	-.-	8/10/2022 14:51	-.-
8/10/2022 14:28	-.-	8/10/2022 14:36	-.-	8/10/2022 14:44	-.-	8/10/2022 14:52	-.-
8/10/2022 14:27	0.05	8/10/2022 14:35	0.05	8/10/2022 14:43	0.05	8/10/2022 14:51	0.05
8/10/2022 14:28	-.-	8/10/2022 14:36	-.-	8/10/2022 14:44	-.-	8/10/2022 14:52	-.-
8/10/2022 14:29	-.-	8/10/2022 14:37	-.-	8/10/2022 14:45	-.-	8/10/2022 14:53	-.-
8/10/2022 14:28	0.05	8/10/2022 14:36	0.05	8/10/2022 14:44	0.04	8/10/2022 14:52	0.05
8/10/2022 14:29	-.-	8/10/2022 14:37	-.-	8/10/2022 14:45	-.-	8/10/2022 14:53	-.-
8/10/2022 14:30	-.-	8/10/2022 14:38	-.-	8/10/2022 14:46	-.-	8/10/2022 14:54	-.-

8/10/2022 14:53	0.05	8/10/2022 15:01	0.05	8/10/2022 15:09	0.05	8/10/2022 15:17	0.04
8/10/2022 14:54	-.-	8/10/2022 15:02	-.-	8/10/2022 15:10	-.-	8/10/2022 15:18	-.-
8/10/2022 14:55	-.-	8/10/2022 15:03	-.-	8/10/2022 15:11	-.-	8/10/2022 15:19	-.-
8/10/2022 14:54	0.06	8/10/2022 15:02	0.05	8/10/2022 15:10	0.05	8/10/2022 15:18	0.05
8/10/2022 14:55	-.-	8/10/2022 15:03	-.-	8/10/2022 15:11	-.-	8/10/2022 15:19	-.-
8/10/2022 14:56	-.-	8/10/2022 15:04	-.-	8/10/2022 15:12	-.-	8/10/2022 15:20	-.-
8/10/2022 14:55	0.05	8/10/2022 15:03	0.05	8/10/2022 15:11	0.06	8/10/2022 15:19	0.09
8/10/2022 14:56	-.-	8/10/2022 15:04	-.-	8/10/2022 15:12	-.-	8/10/2022 15:20	-.-
8/10/2022 14:57	-.-	8/10/2022 15:05	-.-	8/10/2022 15:13	-.-	8/10/2022 15:21	-.-
8/10/2022 14:56	0.05	8/10/2022 15:04	0.04	8/10/2022 15:12	0.06	8/10/2022 15:20	0.05
8/10/2022 14:57	-.-	8/10/2022 15:05	-.-	8/10/2022 15:13	-.-	8/10/2022 15:21	-.-
8/10/2022 14:58	-.-	8/10/2022 15:06	-.-	8/10/2022 15:14	-.-	8/10/2022 15:22	-.-
8/10/2022 14:57	0.05	8/10/2022 15:05	0.06	8/10/2022 15:13	0.07	8/10/2022 15:21	0.05
8/10/2022 14:58	-.-	8/10/2022 15:06	-.-	8/10/2022 15:14	-.-	8/10/2022 15:22	-.-
8/10/2022 14:59	-.-	8/10/2022 15:07	-.-	8/10/2022 15:15	-.-	8/10/2022 15:23	-.-
8/10/2022 14:58	0.06	8/10/2022 15:06	0.05	8/10/2022 15:14	0.06	8/10/2022 15:22	0.05
8/10/2022 14:59	-.-	8/10/2022 15:07	-.-	8/10/2022 15:15	-.-	8/10/2022 15:23	-.-
8/10/2022 15:00	-.-	8/10/2022 15:08	-.-	8/10/2022 15:16	-.-	8/10/2022 15:24	-.-
8/10/2022 14:59	0.06	8/10/2022 15:07	0.05	8/10/2022 15:15	0.05	8/10/2022 15:23	0.07
8/10/2022 15:00	-.-	8/10/2022 15:08	-.-	8/10/2022 15:16	-.-	8/10/2022 15:24	-.-
8/10/2022 15:01	-.-	8/10/2022 15:09	-.-	8/10/2022 15:17	-.-	8/10/2022 15:25	-.-
8/10/2022 15:00	0.05	8/10/2022 15:08	0.05	8/10/2022 15:16	0.05	8/10/2022 15:24	0.06
8/10/2022 15:01	-.-	8/10/2022 15:09	-.-	8/10/2022 15:17	-.-	8/10/2022 15:25	-.-
8/10/2022 15:02	-.-	8/10/2022 15:10	-.-	8/10/2022 15:18	-.-	8/10/2022 15:26	-.-

8/10/2022 15:25	0.05	8/10/2022 15:33	0.06	8/10/2022 15:41	0.05	8/10/2022 15:49	0.05
8/10/2022 15:26	-.-	8/10/2022 15:34	-.-	8/10/2022 15:42	-.-	8/10/2022 15:50	-.-
8/10/2022 15:27	-.-	8/10/2022 15:35	-.-	8/10/2022 15:43	-.-	8/10/2022 15:51	-.-
8/10/2022 15:26	0.04	8/10/2022 15:34	0.05	8/10/2022 15:42	0.05	8/10/2022 15:50	0.05
8/10/2022 15:27	-.-	8/10/2022 15:35	-.-	8/10/2022 15:43	-.-	8/10/2022 15:51	-.-
8/10/2022 15:28	-.-	8/10/2022 15:36	-.-	8/10/2022 15:44	-.-	8/10/2022 15:52	-.-
8/10/2022 15:27	0.05	8/10/2022 15:35	0.06	8/10/2022 15:43	0.05	8/10/2022 15:51	0.05
8/10/2022 15:28	-.-	8/10/2022 15:36	-.-	8/10/2022 15:44	-.-	8/10/2022 15:52	-.-
8/10/2022 15:29	-.-	8/10/2022 15:37	-.-	8/10/2022 15:45	-.-	8/10/2022 15:53	-.-
8/10/2022 15:28	0.04	8/10/2022 15:36	0.07	8/10/2022 15:44	0.04	8/10/2022 15:52	0.05
8/10/2022 15:29	-.-	8/10/2022 15:37	-.-	8/10/2022 15:45	-.-	8/10/2022 15:53	-.-
8/10/2022 15:30	-.-	8/10/2022 15:38	-.-	8/10/2022 15:46	-.-	8/10/2022 15:54	-.-
8/10/2022 15:29	0.05	8/10/2022 15:37	0.04	8/10/2022 15:45	0.04	8/10/2022 15:53	0.05
8/10/2022 15:30	-.-	8/10/2022 15:38	-.-	8/10/2022 15:46	-.-	8/10/2022 15:54	-.-
8/10/2022 15:31	-.-	8/10/2022 15:39	-.-	8/10/2022 15:47	-.-	8/10/2022 15:55	-.-
8/10/2022 15:30	0.04	8/10/2022 15:38	0.05	8/10/2022 15:46	0.04	8/10/2022 15:54	0.05
8/10/2022 15:31	-.-	8/10/2022 15:39	-.-	8/10/2022 15:47	-.-	8/10/2022 15:55	-.-
8/10/2022 15:32	-.-	8/10/2022 15:40	-.-	8/10/2022 15:48	-.-	8/10/2022 15:56	-.-
8/10/2022 15:31	0.05	8/10/2022 15:39	0.06	8/10/2022 15:47	0.05	8/10/2022 15:55	0.04
8/10/2022 15:32	-.-	8/10/2022 15:40	-.-	8/10/2022 15:48	-.-	8/10/2022 15:56	-.-
8/10/2022 15:33	-.-	8/10/2022 15:41	-.-	8/10/2022 15:49	-.-	8/10/2022 15:57	-.-
8/10/2022 15:32	0.05	8/10/2022 15:40	0.04	8/10/2022 15:48	0.05	8/10/2022 15:56	0.05
8/10/2022 15:33	-.-	8/10/2022 15:41	-.-	8/10/2022 15:49	-.-	8/10/2022 15:57	-.-
8/10/2022 15:34	-.-	8/10/2022 15:42	-.-	8/10/2022 15:50	-.-	8/10/2022 15:58	-.-

8/10/2022 15:57	0.04	8/10/2022 16:05	0.05	8/10/2022 16:13	0.05	8/10/2022 16:21	0.05
8/10/2022 15:58	-.-	8/10/2022 16:06	-.-	8/10/2022 16:14	-.-	8/10/2022 16:22	-.-
8/10/2022 15:59	-.-	8/10/2022 16:07	-.-	8/10/2022 16:15	-.-	8/10/2022 16:23	-.-
8/10/2022 15:58	0.05	8/10/2022 16:06	0.05	8/10/2022 16:14	0.05	8/10/2022 16:22	0.08
8/10/2022 15:59	-.-	8/10/2022 16:07	-.-	8/10/2022 16:15	-.-	8/10/2022 16:23	-.-
8/10/2022 16:00	-.-	8/10/2022 16:08	-.-	8/10/2022 16:16	-.-	8/10/2022 16:24	-.-
8/10/2022 15:59	0.06	8/10/2022 16:07	0.06	8/10/2022 16:15	0.06	8/10/2022 16:23	0.06
8/10/2022 16:00	-.-	8/10/2022 16:08	-.-	8/10/2022 16:16	-.-	8/10/2022 16:24	-.-
8/10/2022 16:01	-.-	8/10/2022 16:09	-.-	8/10/2022 16:17	-.-	8/10/2022 16:25	-.-
8/10/2022 16:00	0.05	8/10/2022 16:08	0.05	8/10/2022 16:16	0.05	8/10/2022 16:24	0.05
8/10/2022 16:01	-.-	8/10/2022 16:09	-.-	8/10/2022 16:17	-.-	8/10/2022 16:25	-.-
8/10/2022 16:02	-.-	8/10/2022 16:10	-.-	8/10/2022 16:18	-.-	8/10/2022 16:26	-.-
8/10/2022 16:01	0.05	8/10/2022 16:09	0.05	8/10/2022 16:17	0.04	8/10/2022 16:25	0.05
8/10/2022 16:02	-.-	8/10/2022 16:10	-.-	8/10/2022 16:18	-.-	8/10/2022 16:26	-.-
8/10/2022 16:03	-.-	8/10/2022 16:11	-.-	8/10/2022 16:19	-.-	8/10/2022 16:27	-.-
8/10/2022 16:02	0.04	8/10/2022 16:10	0.06	8/10/2022 16:18	0.04	8/10/2022 16:26	0.04
8/10/2022 16:03	-.-	8/10/2022 16:11	-.-	8/10/2022 16:19	-.-	8/10/2022 16:27	-.-
8/10/2022 16:04	-.-	8/10/2022 16:12	-.-	8/10/2022 16:20	-.-	8/10/2022 16:28	-.-
8/10/2022 16:03	0.05	8/10/2022 16:11	0.05	8/10/2022 16:19	0.05	8/10/2022 16:27	0.04
8/10/2022 16:04	-.-	8/10/2022 16:12	-.-	8/10/2022 16:20	-.-	8/10/2022 16:28	-.-
8/10/2022 16:05	-.-	8/10/2022 16:13	-.-	8/10/2022 16:21	-.-	8/10/2022 16:29	-.-
8/10/2022 16:04	0.05	8/10/2022 16:12	0.05	8/10/2022 16:20	0.06	8/10/2022 16:28	0.05
8/10/2022 16:05	-.-	8/10/2022 16:13	-.-	8/10/2022 16:21	-.-	8/10/2022 16:29	-.-
8/10/2022 16:06	-.-	8/10/2022 16:14	-.-	8/10/2022 16:22	-.-	8/10/2022 16:30	-.-

8/10/2022 16:29	0.05	8/10/2022 16:37	0.05	8/10/2022 16:45	0.05	8/10/2022 16:53	0.05
8/10/2022 16:30	-.-	8/10/2022 16:38	-.-	8/10/2022 16:46	-.-	8/10/2022 16:54	-.-
8/10/2022 16:31	-.-	8/10/2022 16:39	-.-	8/10/2022 16:47	-.-	8/10/2022 16:55	-.-
8/10/2022 16:30	0.05	8/10/2022 16:38	0.05	8/10/2022 16:46	0.04	8/10/2022 16:54	0.05
8/10/2022 16:31	-.-	8/10/2022 16:39	-.-	8/10/2022 16:47	-.-	8/10/2022 16:55	-.-
8/10/2022 16:32	-.-	8/10/2022 16:40	-.-	8/10/2022 16:48	-.-	8/10/2022 16:56	-.-
8/10/2022 16:31	0.06	8/10/2022 16:39	0.05	8/10/2022 16:47	0.05	8/10/2022 16:55	0.05
8/10/2022 16:32	-.-	8/10/2022 16:40	-.-	8/10/2022 16:48	-.-	8/10/2022 16:56	-.-
8/10/2022 16:33	-.-	8/10/2022 16:41	-.-	8/10/2022 16:49	-.-	8/10/2022 16:57	-.-
8/10/2022 16:32	0.05	8/10/2022 16:40	0.05	8/10/2022 16:48	0.09	8/10/2022 16:56	0.07
8/10/2022 16:33	-.-	8/10/2022 16:41	-.-	8/10/2022 16:49	-.-	8/10/2022 16:57	-.-
8/10/2022 16:34	-.-	8/10/2022 16:42	-.-	8/10/2022 16:50	-.-	8/10/2022 16:58	-.-
8/10/2022 16:33	0.05	8/10/2022 16:41	0.05	8/10/2022 16:49	0.05	8/10/2022 16:57	0.05
8/10/2022 16:34	-.-	8/10/2022 16:42	-.-	8/10/2022 16:50	-.-	8/10/2022 16:58	-.-
8/10/2022 16:35	-.-	8/10/2022 16:43	-.-	8/10/2022 16:51	-.-	8/10/2022 16:59	-.-
8/10/2022 16:34	0.05	8/10/2022 16:42	0.05	8/10/2022 16:50	0.05	8/10/2022 16:58	0.06
8/10/2022 16:35	-.-	8/10/2022 16:43	-.-	8/10/2022 16:51	-.-	8/10/2022 16:59	-.-
8/10/2022 16:36	-.-	8/10/2022 16:44	-.-	8/10/2022 16:52	-.-	8/10/2022 17:00	-.-
8/10/2022 16:35	0.05	8/10/2022 16:43	0.04	8/10/2022 16:51	0.05	8/10/2022 16:59	0.04
8/10/2022 16:36	-.-	8/10/2022 16:44	-.-	8/10/2022 16:52	-.-	8/10/2022 17:00	-.-
8/10/2022 16:37	-.-	8/10/2022 16:45	-.-	8/10/2022 16:53	-.-	8/10/2022 17:01	-.-
8/10/2022 16:36	0.05	8/10/2022 16:44	0.06	8/10/2022 16:52	0.05	8/10/2022 17:00	0.06
8/10/2022 16:37	-.-	8/10/2022 16:45	-.-	8/10/2022 16:53	-.-	8/10/2022 17:01	-.-
8/10/2022 16:38	-.-	8/10/2022 16:46	-.-	8/10/2022 16:54	-.-	8/10/2022 17:02	-.-

8/10/2022 17:01	0.05	8/10/2022 17:09	0.04	8/10/2022 17:17	0.06	8/10/2022 17:25	0.05
8/10/2022 17:02	-.-	8/10/2022 17:10	-.-	8/10/2022 17:18	-.-	8/10/2022 17:26	-.-
8/10/2022 17:03	-.-	8/10/2022 17:11	-.-	8/10/2022 17:19	-.-	8/10/2022 17:27	-.-
8/10/2022 17:02	0.05	8/10/2022 17:10	0.05	8/10/2022 17:18	0.05	8/10/2022 17:26	0.06
8/10/2022 17:03	-.-	8/10/2022 17:11	-.-	8/10/2022 17:19	-.-	8/10/2022 17:27	-.-
8/10/2022 17:04	-.-	8/10/2022 17:12	-.-	8/10/2022 17:20	-.-	8/10/2022 17:28	-.-
8/10/2022 17:03	0.05	8/10/2022 17:11	0.05	8/10/2022 17:19	0.06	8/10/2022 17:27	0.04
8/10/2022 17:04	-.-	8/10/2022 17:12	-.-	8/10/2022 17:20	-.-	8/10/2022 17:28	-.-
8/10/2022 17:05	-.-	8/10/2022 17:13	-.-	8/10/2022 17:21	-.-	8/10/2022 17:29	-.-
8/10/2022 17:04	0.04	8/10/2022 17:12	0.05	8/10/2022 17:20	0.05	8/10/2022 17:28	0.05
8/10/2022 17:05	-.-	8/10/2022 17:13	-.-	8/10/2022 17:21	-.-	8/10/2022 17:29	-.-
8/10/2022 17:06	-.-	8/10/2022 17:14	-.-	8/10/2022 17:22	-.-	8/10/2022 17:30	-.-
8/10/2022 17:05	0.05	8/10/2022 17:13	0.04	8/10/2022 17:21	0.06	8/10/2022 17:29	0.05
8/10/2022 17:06	-.-	8/10/2022 17:14	-.-	8/10/2022 17:22	-.-	8/10/2022 17:30	-.-
8/10/2022 17:07	-.-	8/10/2022 17:15	-.-	8/10/2022 17:23	-.-	8/10/2022 17:31	-.-
8/10/2022 17:06	0.05	8/10/2022 17:14	0.05	8/10/2022 17:22	0.05	8/10/2022 17:30	0.05
8/10/2022 17:07	-.-	8/10/2022 17:15	-.-	8/10/2022 17:23	-.-	8/10/2022 17:31	-.-
8/10/2022 17:08	-.-	8/10/2022 17:16	-.-	8/10/2022 17:24	-.-	8/10/2022 17:32	-.-
8/10/2022 17:07	0.04	8/10/2022 17:15	0.04	8/10/2022 17:23	0.04	8/10/2022 17:31	0.04
8/10/2022 17:08	-.-	8/10/2022 17:16	-.-	8/10/2022 17:24	-.-	8/10/2022 17:32	-.-
8/10/2022 17:09	-.-	8/10/2022 17:17	-.-	8/10/2022 17:25	-.-	8/10/2022 17:33	-.-
8/10/2022 17:08	0.04	8/10/2022 17:16	0.04	8/10/2022 17:24	0.05	8/10/2022 17:32	0.06
8/10/2022 17:09	-.-	8/10/2022 17:17	-.-	8/10/2022 17:25	-.-	8/10/2022 17:33	-.-
8/10/2022 17:10	-.-	8/10/2022 17:18	-.-	8/10/2022 17:26	-.-	8/10/2022 17:34	-.-

8/10/2022 17:33	0.05	8/10/2022 17:41	0.04	8/10/2022 17:49	0.04	8/10/2022 17:57	0.04
8/10/2022 17:34	-.-	8/10/2022 17:42	-.-	8/10/2022 17:50	-.-	8/10/2022 17:58	-.-
8/10/2022 17:35	-.-	8/10/2022 17:43	-.-	8/10/2022 17:51	-.-	8/10/2022 17:59	-.-
8/10/2022 17:34	0.05	8/10/2022 17:42	0.06	8/10/2022 17:50	0.05	8/10/2022 17:58	0.05
8/10/2022 17:35	-.-	8/10/2022 17:43	-.-	8/10/2022 17:51	-.-	8/10/2022 17:59	-.-
8/10/2022 17:36	-.-	8/10/2022 17:44	-.-	8/10/2022 17:52	-.-	8/10/2022 18:00	-.-
8/10/2022 17:35	0.05	8/10/2022 17:43	0.06	8/10/2022 17:51	0.04	8/10/2022 17:59	0.04
8/10/2022 17:36	-.-	8/10/2022 17:44	-.-	8/10/2022 17:52	-.-	8/10/2022 18:00	-.-
8/10/2022 17:37	-.-	8/10/2022 17:45	-.-	8/10/2022 17:53	-.-	8/10/2022 18:01	-.-
8/10/2022 17:36	0.05	8/10/2022 17:44	0.04	8/10/2022 17:52	0.05	8/10/2022 18:00	0.05
8/10/2022 17:37	-.-	8/10/2022 17:45	-.-	8/10/2022 17:53	-.-	8/10/2022 18:01	-.-
8/10/2022 17:38	-.-	8/10/2022 17:46	-.-	8/10/2022 17:54	-.-	8/10/2022 18:02	-.-
8/10/2022 17:37	0.06	8/10/2022 17:45	0.05	8/10/2022 17:53	0.05	8/10/2022 18:01	0.05
8/10/2022 17:38	-.-	8/10/2022 17:46	-.-	8/10/2022 17:54	-.-	8/10/2022 18:02	-.-
8/10/2022 17:39	-.-	8/10/2022 17:47	-.-	8/10/2022 17:55	-.-	8/10/2022 18:03	-.-
8/10/2022 17:38	0.05	8/10/2022 17:46	0.04	8/10/2022 17:54	0.05	8/10/2022 18:02	0.05
8/10/2022 17:39	-.-	8/10/2022 17:47	-.-	8/10/2022 17:55	-.-	8/10/2022 18:03	-.-
8/10/2022 17:40	-.-	8/10/2022 17:48	-.-	8/10/2022 17:56	-.-	8/10/2022 18:04	-.-
8/10/2022 17:39	0.05	8/10/2022 17:47	0.05	8/10/2022 17:55	0.05	8/10/2022 18:03	0.05
8/10/2022 17:40	-.-	8/10/2022 17:48	-.-	8/10/2022 17:56	-.-	8/10/2022 18:04	-.-
8/10/2022 17:41	-.-	8/10/2022 17:49	-.-	8/10/2022 17:57	-.-	8/10/2022 18:05	-.-
8/10/2022 17:40	0.04	8/10/2022 17:48	0.04	8/10/2022 17:56	0.04	8/10/2022 18:04	0.05
8/10/2022 17:41	-.-	8/10/2022 17:49	-.-	8/10/2022 17:57	-.-	8/10/2022 18:05	-.-
8/10/2022 17:42	-.-	8/10/2022 17:50	-.-	8/10/2022 17:58	-.-	8/10/2022 18:06	-.-

8/10/2022 18:05	0.04	8/10/2022 18:13	0.05	8/10/2022 18:21	0.05	8/10/2022 18:29	0.04
8/10/2022 18:06	-.-	8/10/2022 18:14	-.-	8/10/2022 18:22	-.-	8/10/2022 18:30	-.-
8/10/2022 18:07	-.-	8/10/2022 18:15	-.-	8/10/2022 18:23	-.-	8/10/2022 18:31	-.-
8/10/2022 18:06	0.05	8/10/2022 18:14	0.04	8/10/2022 18:22	0.05	8/10/2022 18:30	0.05
8/10/2022 18:07	-.-	8/10/2022 18:15	-.-	8/10/2022 18:23	-.-	8/10/2022 18:31	-.-
8/10/2022 18:08	-.-	8/10/2022 18:16	-.-	8/10/2022 18:24	-.-	8/10/2022 18:32	-.-
8/10/2022 18:07	0.05	8/10/2022 18:15	0.04	8/10/2022 18:23	0.05	8/10/2022 18:31	0.06
8/10/2022 18:08	-.-	8/10/2022 18:16	-.-	8/10/2022 18:24	-.-	8/10/2022 18:32	-.-
8/10/2022 18:09	-.-	8/10/2022 18:17	-.-	8/10/2022 18:25	-.-	8/10/2022 18:33	-.-
8/10/2022 18:08	0.04	8/10/2022 18:16	0.05	8/10/2022 18:24	0.04	8/10/2022 18:32	0.04
8/10/2022 18:09	-.-	8/10/2022 18:17	-.-	8/10/2022 18:25	-.-	8/10/2022 18:33	-.-
8/10/2022 18:10	-.-	8/10/2022 18:18	-.-	8/10/2022 18:26	-.-	8/10/2022 18:34	-.-
8/10/2022 18:09	0.04	8/10/2022 18:17	0.04	8/10/2022 18:25	0.04	8/10/2022 18:33	0.05
8/10/2022 18:10	-.-	8/10/2022 18:18	-.-	8/10/2022 18:26	-.-	8/10/2022 18:34	-.-
8/10/2022 18:11	-.-	8/10/2022 18:19	-.-	8/10/2022 18:27	-.-	8/10/2022 18:35	-.-
8/10/2022 18:10	0.04	8/10/2022 18:18	0.07	8/10/2022 18:26	0.05	8/10/2022 18:34	0.04
8/10/2022 18:11	-.-	8/10/2022 18:19	-.-	8/10/2022 18:27	-.-	8/10/2022 18:35	-.-
8/10/2022 18:12	-.-	8/10/2022 18:20	-.-	8/10/2022 18:28	-.-	8/10/2022 18:36	-.-
8/10/2022 18:11	0.05	8/10/2022 18:19	0.06	8/10/2022 18:27	0.05	8/10/2022 18:35	0.04
8/10/2022 18:12	-.-	8/10/2022 18:20	-.-	8/10/2022 18:28	-.-	8/10/2022 18:36	-.-
8/10/2022 18:13	-.-	8/10/2022 18:21	-.-	8/10/2022 18:29	-.-	8/10/2022 18:37	-.-
8/10/2022 18:12	0.05	8/10/2022 18:20	0.05	8/10/2022 18:28	0.04	8/10/2022 18:36	0.05
8/10/2022 18:13	-.-	8/10/2022 18:21	-.-	8/10/2022 18:29	-.-	8/10/2022 18:37	-.-
8/10/2022 18:14	-.-	8/10/2022 18:22	-.-	8/10/2022 18:30	-.-	8/10/2022 18:38	-.-

8/10/2022 18:37	0.04	8/10/2022 18:45	0.05	8/10/2022 18:53	0.05	8/10/2022 19:01	0.04
8/10/2022 18:38	-.-	8/10/2022 18:46	-.-	8/10/2022 18:54	-.-	8/10/2022 19:02	-.-
8/10/2022 18:39	-.-	8/10/2022 18:47	-.-	8/10/2022 18:55	-.-	8/10/2022 19:03	-.-
8/10/2022 18:38	0.05	8/10/2022 18:46	0.04	8/10/2022 18:54	0.05	8/10/2022 19:02	0.04
8/10/2022 18:39	-.-	8/10/2022 18:47	-.-	8/10/2022 18:55	-.-	8/10/2022 19:03	-.-
8/10/2022 18:40	-.-	8/10/2022 18:48	-.-	8/10/2022 18:56	-.-	8/10/2022 19:04	-.-
8/10/2022 18:39	0.05	8/10/2022 18:47	0.06	8/10/2022 18:55	0.05	8/10/2022 19:03	0.04
8/10/2022 18:40	-.-	8/10/2022 18:48	-.-	8/10/2022 18:56	-.-	8/10/2022 19:04	-.-
8/10/2022 18:41	-.-	8/10/2022 18:49	-.-	8/10/2022 18:57	-.-	8/10/2022 19:05	-.-
8/10/2022 18:40	0.04	8/10/2022 18:48	0.07	8/10/2022 18:56	0.04	8/10/2022 19:04	0.04
8/10/2022 18:41	-.-	8/10/2022 18:49	-.-	8/10/2022 18:57	-.-	8/10/2022 19:05	-.-
8/10/2022 18:42	-.-	8/10/2022 18:50	-.-	8/10/2022 18:58	-.-	8/10/2022 19:06	-.-
8/10/2022 18:41	0.05	8/10/2022 18:49	0.07	8/10/2022 18:57	0.04	8/10/2022 19:05	0.07
8/10/2022 18:42	-.-	8/10/2022 18:50	-.-	8/10/2022 18:58	-.-	8/10/2022 19:06	-.-
8/10/2022 18:43	-.-	8/10/2022 18:51	-.-	8/10/2022 18:59	-.-	8/10/2022 19:07	-.-
8/10/2022 18:42	0.04	8/10/2022 18:50	0.05	8/10/2022 18:58	0.04	8/10/2022 19:06	0.04
8/10/2022 18:43	-.-	8/10/2022 18:51	-.-	8/10/2022 18:59	-.-	8/10/2022 19:07	-.-
8/10/2022 18:44	-.-	8/10/2022 18:52	-.-	8/10/2022 19:00	-.-	8/10/2022 19:08	-.-
8/10/2022 18:43	0.05	8/10/2022 18:51	0.05	8/10/2022 18:59	0.04	8/10/2022 19:07	0.04
8/10/2022 18:44	-.-	8/10/2022 18:52	-.-	8/10/2022 19:00	-.-	8/10/2022 19:08	-.-
8/10/2022 18:45	-.-	8/10/2022 18:53	-.-	8/10/2022 19:01	-.-	8/10/2022 19:09	-.-
8/10/2022 18:44	0.05	8/10/2022 18:52	0.05	8/10/2022 19:00	0.04	8/10/2022 19:08	0.05
8/10/2022 18:45	-.-	8/10/2022 18:53	-.-	8/10/2022 19:01	-.-	8/10/2022 19:09	-.-
8/10/2022 18:46	-.-	8/10/2022 18:54	-.-	8/10/2022 19:02	-.-	8/10/2022 19:10	-.-

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8/10/2022 19:10	-.-	8/10/2022 19:18	-.-	8/10/2022 19:26	-.-	8/10/2022 19:34	-.-
8/10/2022 19:11	-.-	8/10/2022 19:19	-.-	8/10/2022 19:27	-.-	8/10/2022 19:35	-.-
8/10/2022 19:10	0.04	8/10/2022 19:18	0.05	8/10/2022 19:26	0.04	8/10/2022 19:34	0.06
8/10/2022 19:11	-.-	8/10/2022 19:19	-.-	8/10/2022 19:27	-.-	8/10/2022 19:35	-.-
8/10/2022 19:12	-.-	8/10/2022 19:20	-.-	8/10/2022 19:28	-.-	8/10/2022 19:36	-.-
8/10/2022 19:11	0.05	8/10/2022 19:19	0.06	8/10/2022 19:27	0.05	8/10/2022 19:35	0.04
8/10/2022 19:12	-.-	8/10/2022 19:20	-.-	8/10/2022 19:28	-.-	8/10/2022 19:36	-.-
8/10/2022 19:13	-.-	8/10/2022 19:21	-.-	8/10/2022 19:29	-.-	8/10/2022 19:37	-.-
8/10/2022 19:12	0.05	8/10/2022 19:20	0.04	8/10/2022 19:28	0.05	8/10/2022 19:36	0.05
8/10/2022 19:13	-.-	8/10/2022 19:21	-.-	8/10/2022 19:29	-.-	8/10/2022 19:37	-.-
8/10/2022 19:14	-.-	8/10/2022 19:22	-.-	8/10/2022 19:30	-.-	8/10/2022 19:38	-.-
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8/10/2022 19:14	-.-	8/10/2022 19:22	-.-	8/10/2022 19:30	-.-	8/10/2022 19:38	-.-
8/10/2022 19:15	-.-	8/10/2022 19:23	-.-	8/10/2022 19:31	-.-	8/10/2022 19:39	-.-
8/10/2022 19:14	0.05	8/10/2022 19:22	0.05	8/10/2022 19:30	0.04	8/10/2022 19:38	0.06
8/10/2022 19:15	-.-	8/10/2022 19:23	-.-	8/10/2022 19:31	-.-	8/10/2022 19:39	-.-
8/10/2022 19:16	-.-	8/10/2022 19:24	-.-	8/10/2022 19:32	-.-	8/10/2022 19:40	-.-
8/10/2022 19:15	0.05	8/10/2022 19:23	0.05	8/10/2022 19:31	0.04	8/10/2022 19:39	0.04
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8/10/2022 19:17	-.-	8/10/2022 19:25	-.-	8/10/2022 19:33	-.-	8/10/2022 19:41	-.-
8/10/2022 19:16	0.04	8/10/2022 19:24	0.09	8/10/2022 19:32	0.04	8/10/2022 19:40	0.04
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8/10/2022 19:18	-.-	8/10/2022 19:26	-.-	8/10/2022 19:34	-.-	8/10/2022 19:42	-.-

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8/10/2022 19:43	-.-	8/10/2022 19:51	-.-	8/10/2022 19:59	-.-	8/10/2022 20:07	-.-
8/10/2022 19:42	0.05	8/10/2022 19:50	0.08	8/10/2022 19:58	0.04	8/10/2022 20:06	0.04
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8/10/2022 19:44	-.-	8/10/2022 19:52	-.-	8/10/2022 20:00	-.-	8/10/2022 20:08	-.-
8/10/2022 19:43	0.05	8/10/2022 19:51	0.07	8/10/2022 19:59	0.04	8/10/2022 20:07	0.04
8/10/2022 19:44	-.-	8/10/2022 19:52	-.-	8/10/2022 20:00	-.-	8/10/2022 20:08	-.-
8/10/2022 19:45	-.-	8/10/2022 19:53	-.-	8/10/2022 20:01	-.-	8/10/2022 20:09	-.-
8/10/2022 19:44	0.05	8/10/2022 19:52	0.04	8/10/2022 20:00	0.05	8/10/2022 20:08	0.04
8/10/2022 19:45	-.-	8/10/2022 19:53	-.-	8/10/2022 20:01	-.-	8/10/2022 20:09	-.-
8/10/2022 19:46	-.-	8/10/2022 19:54	-.-	8/10/2022 20:02	-.-	8/10/2022 20:10	-.-
8/10/2022 19:45	0.05	8/10/2022 19:53	0.04	8/10/2022 20:01	0.04	8/10/2022 20:09	0.04
8/10/2022 19:46	-.-	8/10/2022 19:54	-.-	8/10/2022 20:02	-.-	8/10/2022 20:10	-.-
8/10/2022 19:47	-.-	8/10/2022 19:55	-.-	8/10/2022 20:03	-.-	8/10/2022 20:11	-.-
8/10/2022 19:46	0.04	8/10/2022 19:54	0.04	8/10/2022 20:02	0.04	8/10/2022 20:10	0.04
8/10/2022 19:47	-.-	8/10/2022 19:55	-.-	8/10/2022 20:03	-.-	8/10/2022 20:11	-.-
8/10/2022 19:48	-.-	8/10/2022 19:56	-.-	8/10/2022 20:04	-.-	8/10/2022 20:12	-.-
8/10/2022 19:47	0.04	8/10/2022 19:55	0.04	8/10/2022 20:03	0.05	8/10/2022 20:11	0.04
8/10/2022 19:48	-.-	8/10/2022 19:56	-.-	8/10/2022 20:04	-.-	8/10/2022 20:12	-.-
8/10/2022 19:49	-.-	8/10/2022 19:57	-.-	8/10/2022 20:05	-.-	8/10/2022 20:13	-.-
8/10/2022 19:48	0.04	8/10/2022 19:56	0.05	8/10/2022 20:04	0.04	8/10/2022 20:12	0.05
8/10/2022 19:49	-.-	8/10/2022 19:57	-.-	8/10/2022 20:05	-.-	8/10/2022 20:13	-.-
8/10/2022 19:50	-.-	8/10/2022 19:58	-.-	8/10/2022 20:06	-.-	8/10/2022 20:14	-.-

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8/10/2022 20:15	-.-	8/10/2022 20:23	-.-	8/10/2022 20:31	-.-	8/10/2022 20:39	-.-
8/10/2022 20:14	0.04	8/10/2022 20:22	0.04	8/10/2022 20:30	0.05	8/10/2022 20:38	0.05
8/10/2022 20:15	-.-	8/10/2022 20:23	-.-	8/10/2022 20:31	-.-	8/10/2022 20:39	-.-
8/10/2022 20:16	-.-	8/10/2022 20:24	-.-	8/10/2022 20:32	-.-	8/10/2022 20:40	-.-
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8/10/2022 20:16	-.-	8/10/2022 20:24	-.-	8/10/2022 20:32	-.-	8/10/2022 20:40	-.-
8/10/2022 20:17	-.-	8/10/2022 20:25	-.-	8/10/2022 20:33	-.-	8/10/2022 20:41	-.-
8/10/2022 20:16	0.04	8/10/2022 20:24	0.04	8/10/2022 20:32	0.05	8/10/2022 20:40	0.04
8/10/2022 20:17	-.-	8/10/2022 20:25	-.-	8/10/2022 20:33	-.-	8/10/2022 20:41	-.-
8/10/2022 20:18	-.-	8/10/2022 20:26	-.-	8/10/2022 20:34	-.-	8/10/2022 20:42	-.-
8/10/2022 20:17	0.04	8/10/2022 20:25	0.05	8/10/2022 20:33	0.05	8/10/2022 20:41	0.04
8/10/2022 20:18	-.-	8/10/2022 20:26	-.-	8/10/2022 20:34	-.-	8/10/2022 20:42	-.-
8/10/2022 20:19	-.-	8/10/2022 20:27	-.-	8/10/2022 20:35	-.-	8/10/2022 20:43	-.-
8/10/2022 20:18	0.04	8/10/2022 20:26	0.04	8/10/2022 20:34	0.05	8/10/2022 20:42	0.05
8/10/2022 20:19	-.-	8/10/2022 20:27	-.-	8/10/2022 20:35	-.-	8/10/2022 20:43	-.-
8/10/2022 20:20	-.-	8/10/2022 20:28	-.-	8/10/2022 20:36	-.-	8/10/2022 20:44	-.-
8/10/2022 20:19	0.05	8/10/2022 20:27	0.04	8/10/2022 20:35	0.05	8/10/2022 20:43	0.05
8/10/2022 20:20	-.-	8/10/2022 20:28	-.-	8/10/2022 20:36	-.-	8/10/2022 20:44	-.-
8/10/2022 20:21	-.-	8/10/2022 20:29	-.-	8/10/2022 20:37	-.-	8/10/2022 20:45	-.-
8/10/2022 20:20	0.04	8/10/2022 20:28	0.04	8/10/2022 20:36	0.04	8/10/2022 20:44	0.04
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8/10/2022 20:22	-.-	8/10/2022 20:30	-.-	8/10/2022 20:38	-.-	8/10/2022 20:46	-.-

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8/10/2022 20:47	-.-	8/10/2022 20:55	-.-	8/10/2022 21:03	-.-	8/10/2022 21:11	-.-
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8/10/2022 20:48	-.-	8/10/2022 20:56	-.-	8/10/2022 21:04	-.-	8/10/2022 21:12	-.-
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8/10/2022 20:50	-.-	8/10/2022 20:58	-.-	8/10/2022 21:06	-.-	8/10/2022 21:14	-.-
8/10/2022 20:49	0.06	8/10/2022 20:57	0.04	8/10/2022 21:05	0.04	8/10/2022 21:13	0.04
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8/10/2022 20:51	-.-	8/10/2022 20:59	-.-	8/10/2022 21:07	-.-	8/10/2022 21:15	-.-
8/10/2022 20:50	0.05	8/10/2022 20:58	0.04	8/10/2022 21:06	0.06	8/10/2022 21:14	0.04
8/10/2022 20:51	-.-	8/10/2022 20:59	-.-	8/10/2022 21:07	-.-	8/10/2022 21:15	-.-
8/10/2022 20:52	-.-	8/10/2022 21:00	-.-	8/10/2022 21:08	-.-	8/10/2022 21:16	-.-
8/10/2022 20:51	0.05	8/10/2022 20:59	0.05	8/10/2022 21:07	0.04	8/10/2022 21:15	0.05
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8/10/2022 20:53	-.-	8/10/2022 21:01	-.-	8/10/2022 21:09	-.-	8/10/2022 21:17	-.-
8/10/2022 20:52	0.04	8/10/2022 21:00	0.04	8/10/2022 21:08	0.05	8/10/2022 21:16	0.04
8/10/2022 20:53	-.-	8/10/2022 21:01	-.-	8/10/2022 21:09	-.-	8/10/2022 21:17	-.-
8/10/2022 20:54	-.-	8/10/2022 21:02	-.-	8/10/2022 21:10	-.-	8/10/2022 21:18	-.-

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8/10/2022 21:18	-.-	8/10/2022 21:26	-.-	8/10/2022 21:34	-.-	8/10/2022 21:42	-.-
8/10/2022 21:19	-.-	8/10/2022 21:27	-.-	8/10/2022 21:35	-.-	8/10/2022 21:43	-.-
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8/10/2022 21:19	-.-	8/10/2022 21:27	-.-	8/10/2022 21:35	-.-	8/10/2022 21:43	-.-
8/10/2022 21:20	-.-	8/10/2022 21:28	-.-	8/10/2022 21:36	-.-	8/10/2022 21:44	-.-
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8/10/2022 21:21	-.-	8/10/2022 21:29	-.-	8/10/2022 21:37	-.-	8/10/2022 21:45	-.-
8/10/2022 21:20	0.06	8/10/2022 21:28	0.04	8/10/2022 21:36	0.04	8/10/2022 21:44	0.04
8/10/2022 21:21	-.-	8/10/2022 21:29	-.-	8/10/2022 21:37	-.-	8/10/2022 21:45	-.-
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8/10/2022 21:21	0.04	8/10/2022 21:29	0.05	8/10/2022 21:37	0.04	8/10/2022 21:45	0.04
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8/10/2022 21:23	-.-	8/10/2022 21:31	-.-	8/10/2022 21:39	-.-	8/10/2022 21:47	-.-
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8/10/2022 21:25	-.-	8/10/2022 21:33	-.-	8/10/2022 21:41	-.-	8/10/2022 21:49	-.-
8/10/2022 21:24	0.05	8/10/2022 21:32	0.04	8/10/2022 21:40	0.04	8/10/2022 21:48	0.04
8/10/2022 21:25	-.-	8/10/2022 21:33	-.-	8/10/2022 21:41	-.-	8/10/2022 21:49	-.-
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8/10/2022 21:50	-.-	8/10/2022 21:58	-.-	8/10/2022 22:06	-.-	8/10/2022 22:14	-.-
8/10/2022 21:51	-.-	8/10/2022 21:59	-.-	8/10/2022 22:07	-.-	8/10/2022 22:15	-.-
8/10/2022 21:50	0.04	8/10/2022 21:58	0.05	8/10/2022 22:06	0.04	8/10/2022 22:14	0.04
8/10/2022 21:51	-.-	8/10/2022 21:59	-.-	8/10/2022 22:07	-.-	8/10/2022 22:15	-.-
8/10/2022 21:52	-.-	8/10/2022 22:00	-.-	8/10/2022 22:08	-.-	8/10/2022 22:16	-.-
8/10/2022 21:51	0.04	8/10/2022 21:59	0.04	8/10/2022 22:07	0.05	8/10/2022 22:15	0.04
8/10/2022 21:52	-.-	8/10/2022 22:00	-.-	8/10/2022 22:08	-.-	8/10/2022 22:16	-.-
8/10/2022 21:53	-.-	8/10/2022 22:01	-.-	8/10/2022 22:09	-.-	8/10/2022 22:17	-.-
8/10/2022 21:52	0.07	8/10/2022 22:00	0.04	8/10/2022 22:08	0.04	8/10/2022 22:16	0.04
8/10/2022 21:53	-.-	8/10/2022 22:01	-.-	8/10/2022 22:09	-.-	8/10/2022 22:17	-.-
8/10/2022 21:54	-.-	8/10/2022 22:02	-.-	8/10/2022 22:10	-.-	8/10/2022 22:18	-.-
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8/10/2022 21:54	-.-	8/10/2022 22:02	-.-	8/10/2022 22:10	-.-	8/10/2022 22:18	-.-
8/10/2022 21:55	-.-	8/10/2022 22:03	-.-	8/10/2022 22:11	-.-	8/10/2022 22:19	-.-
8/10/2022 21:54	0.04	8/10/2022 22:02	0.04	8/10/2022 22:10	0.05	8/10/2022 22:18	0.05
8/10/2022 21:55	-.-	8/10/2022 22:03	-.-	8/10/2022 22:11	-.-	8/10/2022 22:19	-.-
8/10/2022 21:56	-.-	8/10/2022 22:04	-.-	8/10/2022 22:12	-.-	8/10/2022 22:20	-.-
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8/10/2022 21:56	-.-	8/10/2022 22:04	-.-	8/10/2022 22:12	-.-	8/10/2022 22:20	-.-
8/10/2022 21:57	-.-	8/10/2022 22:05	-.-	8/10/2022 22:13	-.-	8/10/2022 22:21	-.-
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8/10/2022 21:57	-.-	8/10/2022 22:05	-.-	8/10/2022 22:13	-.-	8/10/2022 22:21	-.-
8/10/2022 21:58	-.-	8/10/2022 22:06	-.-	8/10/2022 22:14	-.-	8/10/2022 22:22	-.-

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8/10/2022 22:22	-.-	8/10/2022 22:30	-.-	8/10/2022 22:38	-.-	8/10/2022 22:46	-.-
8/10/2022 22:23	-.-	8/10/2022 22:31	-.-	8/10/2022 22:39	-.-	8/10/2022 22:47	-.-
8/10/2022 22:22	0.05	8/10/2022 22:30	0.04	8/10/2022 22:38	0.04	8/10/2022 22:46	0.04
8/10/2022 22:23	-.-	8/10/2022 22:31	-.-	8/10/2022 22:39	-.-	8/10/2022 22:47	-.-
8/10/2022 22:24	-.-	8/10/2022 22:32	-.-	8/10/2022 22:40	-.-	8/10/2022 22:48	-.-
8/10/2022 22:23	0.04	8/10/2022 22:31	0.04	8/10/2022 22:39	0.05	8/10/2022 22:47	0.04
8/10/2022 22:24	-.-	8/10/2022 22:32	-.-	8/10/2022 22:40	-.-	8/10/2022 22:48	-.-
8/10/2022 22:25	-.-	8/10/2022 22:33	-.-	8/10/2022 22:41	-.-	8/10/2022 22:49	-.-
8/10/2022 22:24	0.05	8/10/2022 22:32	0.04	8/10/2022 22:40	0.04	8/10/2022 22:48	0.04
8/10/2022 22:25	-.-	8/10/2022 22:33	-.-	8/10/2022 22:41	-.-	8/10/2022 22:49	-.-
8/10/2022 22:26	-.-	8/10/2022 22:34	-.-	8/10/2022 22:42	-.-	8/10/2022 22:50	-.-
8/10/2022 22:25	0.05	8/10/2022 22:33	0.05	8/10/2022 22:41	0.04	8/10/2022 22:49	0.05
8/10/2022 22:26	-.-	8/10/2022 22:34	-.-	8/10/2022 22:42	-.-	8/10/2022 22:50	-.-
8/10/2022 22:27	-.-	8/10/2022 22:35	-.-	8/10/2022 22:43	-.-	8/10/2022 22:51	-.-
8/10/2022 22:26	0.04	8/10/2022 22:34	0.04	8/10/2022 22:42	0.04	8/10/2022 22:50	0.04
8/10/2022 22:27	-.-	8/10/2022 22:35	-.-	8/10/2022 22:43	-.-	8/10/2022 22:51	-.-
8/10/2022 22:28	-.-	8/10/2022 22:36	-.-	8/10/2022 22:44	-.-	8/10/2022 22:52	-.-
8/10/2022 22:27	0.04	8/10/2022 22:35	0.05	8/10/2022 22:43	0.04	8/10/2022 22:51	0.05
8/10/2022 22:28	-.-	8/10/2022 22:36	-.-	8/10/2022 22:44	-.-	8/10/2022 22:52	-.-
8/10/2022 22:29	-.-	8/10/2022 22:37	-.-	8/10/2022 22:45	-.-	8/10/2022 22:53	-.-
8/10/2022 22:28	0.05	8/10/2022 22:36	0.04	8/10/2022 22:44	0.04	8/10/2022 22:52	0.04
8/10/2022 22:29	-.-	8/10/2022 22:37	-.-	8/10/2022 22:45	-.-	8/10/2022 22:53	-.-
8/10/2022 22:30	-.-	8/10/2022 22:38	-.-	8/10/2022 22:46	-.-	8/10/2022 22:54	-.-

8/10/2022 22:53	0.05	8/10/2022 23:01	0.05	8/10/2022 23:09	0.06	8/10/2022 23:17	0.04
8/10/2022 22:54	-.-	8/10/2022 23:02	-.-	8/10/2022 23:10	-.-	8/10/2022 23:18	-.-
8/10/2022 22:55	-.-	8/10/2022 23:03	-.-	8/10/2022 23:11	-.-	8/10/2022 23:19	-.-
8/10/2022 22:54	0.04	8/10/2022 23:02	0.04	8/10/2022 23:10	0.04	8/10/2022 23:18	0.04
8/10/2022 22:55	-.-	8/10/2022 23:03	-.-	8/10/2022 23:11	-.-	8/10/2022 23:19	-.-
8/10/2022 22:56	-.-	8/10/2022 23:04	-.-	8/10/2022 23:12	-.-	8/10/2022 23:20	-.-
8/10/2022 22:55	0.05	8/10/2022 23:03	0.05	8/10/2022 23:11	0.05	8/10/2022 23:19	0.04
8/10/2022 22:56	-.-	8/10/2022 23:04	-.-	8/10/2022 23:12	-.-	8/10/2022 23:20	-.-
8/10/2022 22:57	-.-	8/10/2022 23:05	-.-	8/10/2022 23:13	-.-	8/10/2022 23:21	-.-
8/10/2022 22:56	0.04	8/10/2022 23:04	0.04	8/10/2022 23:12	0.05	8/10/2022 23:20	0.05
8/10/2022 22:57	-.-	8/10/2022 23:05	-.-	8/10/2022 23:13	-.-	8/10/2022 23:21	-.-
8/10/2022 22:58	-.-	8/10/2022 23:06	-.-	8/10/2022 23:14	-.-	8/10/2022 23:22	-.-
8/10/2022 22:57	0.04	8/10/2022 23:05	0.04	8/10/2022 23:13	0.04	8/10/2022 23:21	0.04
8/10/2022 22:58	-.-	8/10/2022 23:06	-.-	8/10/2022 23:14	-.-	8/10/2022 23:22	-.-
8/10/2022 22:59	-.-	8/10/2022 23:07	-.-	8/10/2022 23:15	-.-	8/10/2022 23:23	-.-
8/10/2022 22:58	0.04	8/10/2022 23:06	0.04	8/10/2022 23:14	0.04	8/10/2022 23:22	0.05
8/10/2022 22:59	-.-	8/10/2022 23:07	-.-	8/10/2022 23:15	-.-	8/10/2022 23:23	-.-
8/10/2022 23:00	-.-	8/10/2022 23:08	-.-	8/10/2022 23:16	-.-	8/10/2022 23:24	-.-
8/10/2022 22:59	0.04	8/10/2022 23:07	0.04	8/10/2022 23:15	0.04	8/10/2022 23:23	0.04
8/10/2022 23:00	-.-	8/10/2022 23:08	-.-	8/10/2022 23:16	-.-	8/10/2022 23:24	-.-
8/10/2022 23:01	-.-	8/10/2022 23:09	-.-	8/10/2022 23:17	-.-	8/10/2022 23:25	-.-
8/10/2022 23:00	0.04	8/10/2022 23:08	0.04	8/10/2022 23:16	0.05	8/10/2022 23:24	0.04
8/10/2022 23:01	-.-	8/10/2022 23:09	-.-	8/10/2022 23:17	-.-	8/10/2022 23:25	-.-
8/10/2022 23:02	-.-	8/10/2022 23:10	-.-	8/10/2022 23:18	-.-	8/10/2022 23:26	-.-

8/10/2022 23:25	0.04	8/10/2022 23:33	0.04	8/10/2022 23:41	0.04	8/10/2022 23:49	0.05
8/10/2022 23:26	-.-	8/10/2022 23:34	-.-	8/10/2022 23:42	-.-	8/10/2022 23:50	-.-
8/10/2022 23:27	-.-	8/10/2022 23:35	-.-	8/10/2022 23:43	-.-	8/10/2022 23:51	-.-
8/10/2022 23:26	0.04	8/10/2022 23:34	0.04	8/10/2022 23:42	0.05	8/10/2022 23:50	0.04
8/10/2022 23:27	-.-	8/10/2022 23:35	-.-	8/10/2022 23:43	-.-	8/10/2022 23:51	-.-
8/10/2022 23:28	-.-	8/10/2022 23:36	-.-	8/10/2022 23:44	-.-	8/10/2022 23:52	-.-
8/10/2022 23:27	0.04	8/10/2022 23:35	0.05	8/10/2022 23:43	0.04	8/10/2022 23:51	0.04
8/10/2022 23:28	-.-	8/10/2022 23:36	-.-	8/10/2022 23:44	-.-	8/10/2022 23:52	-.-
8/10/2022 23:29	-.-	8/10/2022 23:37	-.-	8/10/2022 23:45	-.-	8/10/2022 23:53	-.-
8/10/2022 23:28	0.05	8/10/2022 23:36	0.04	8/10/2022 23:44	0.04	8/10/2022 23:52	0.04
8/10/2022 23:29	-.-	8/10/2022 23:37	-.-	8/10/2022 23:45	-.-	8/10/2022 23:53	-.-
8/10/2022 23:30	-.-	8/10/2022 23:38	-.-	8/10/2022 23:46	-.-	8/10/2022 23:54	-.-
8/10/2022 23:29	0.04	8/10/2022 23:37	0.04	8/10/2022 23:45	0.04	8/10/2022 23:53	0.04
8/10/2022 23:30	-.-	8/10/2022 23:38	-.-	8/10/2022 23:46	-.-	8/10/2022 23:54	-.-
8/10/2022 23:31	-.-	8/10/2022 23:39	-.-	8/10/2022 23:47	-.-	8/10/2022 23:55	-.-
8/10/2022 23:30	0.04	8/10/2022 23:38	0.05	8/10/2022 23:46	0.04	8/10/2022 23:54	0.04
8/10/2022 23:31	-.-	8/10/2022 23:39	-.-	8/10/2022 23:47	-.-	8/10/2022 23:55	-.-
8/10/2022 23:32	-.-	8/10/2022 23:40	-.-	8/10/2022 23:48	-.-	8/10/2022 23:56	-.-
8/10/2022 23:31	0.05	8/10/2022 23:39	0.04	8/10/2022 23:47	0.04	8/10/2022 23:55	0.05
8/10/2022 23:32	-.-	8/10/2022 23:40	-.-	8/10/2022 23:48	-.-	8/10/2022 23:56	-.-
8/10/2022 23:33	-.-	8/10/2022 23:41	-.-	8/10/2022 23:49	-.-	8/10/2022 23:57	-.-
8/10/2022 23:32	0.04	8/10/2022 23:40	0.04	8/10/2022 23:48	0.04	8/10/2022 23:56	0.04
8/10/2022 23:33	-.-	8/10/2022 23:41	-.-	8/10/2022 23:49	-.-	8/10/2022 23:57	-.-
8/10/2022 23:34	-.-	8/10/2022 23:42	-.-	8/10/2022 23:50	-.-	8/10/2022 23:58	-.-

8/10/2022 23:57	0.04	8/11/2022 0:05	0.04	8/11/2022 0:13	0.04	8/11/2022 0:21	0.05
8/10/2022 23:58	-.-	8/11/2022 0:06	-.-	8/11/2022 0:14	-.-	8/11/2022 0:22	-.-
8/10/2022 23:59	-.-	8/11/2022 0:07	-.-	8/11/2022 0:15	-.-	8/11/2022 0:23	-.-
8/10/2022 23:58	0.04	8/11/2022 0:06	0.04	8/11/2022 0:14	0.05	8/11/2022 0:22	0.05
8/10/2022 23:59	-.-	8/11/2022 0:07	-.-	8/11/2022 0:15	-.-	8/11/2022 0:23	-.-
8/11/2022 0:00	-.-	8/11/2022 0:08	-.-	8/11/2022 0:16	-.-	8/11/2022 0:24	-.-
8/10/2022 23:59	0.04	8/11/2022 0:07	0.04	8/11/2022 0:15	0.04	8/11/2022 0:23	0.04
8/11/2022 0:00	-.-	8/11/2022 0:08	-.-	8/11/2022 0:16	-.-	8/11/2022 0:24	-.-
8/11/2022 0:01	-.-	8/11/2022 0:09	-.-	8/11/2022 0:17	-.-	8/11/2022 0:25	-.-
8/11/2022 0:00	0.05	8/11/2022 0:08	0.04	8/11/2022 0:16	0.04	8/11/2022 0:24	0.05
8/11/2022 0:01	-.-	8/11/2022 0:09	-.-	8/11/2022 0:17	-.-	8/11/2022 0:25	-.-
8/11/2022 0:02	-.-	8/11/2022 0:10	-.-	8/11/2022 0:18	-.-	8/11/2022 0:26	-.-
8/11/2022 0:01	0.04	8/11/2022 0:09	0.04	8/11/2022 0:17	0.04	8/11/2022 0:25	0.04
8/11/2022 0:02	-.-	8/11/2022 0:10	-.-	8/11/2022 0:18	-.-	8/11/2022 0:26	-.-
8/11/2022 0:03	-.-	8/11/2022 0:11	-.-	8/11/2022 0:19	-.-	8/11/2022 0:27	-.-
8/11/2022 0:02	0.05	8/11/2022 0:10	0.07	8/11/2022 0:18	0.05	8/11/2022 0:26	0.04
8/11/2022 0:03	-.-	8/11/2022 0:11	-.-	8/11/2022 0:19	-.-	8/11/2022 0:27	-.-
8/11/2022 0:04	-.-	8/11/2022 0:12	-.-	8/11/2022 0:20	-.-	8/11/2022 0:28	-.-
8/11/2022 0:03	0.04	8/11/2022 0:11	0.07	8/11/2022 0:19	0.04	8/11/2022 0:27	0.04
8/11/2022 0:04	-.-	8/11/2022 0:12	-.-	8/11/2022 0:20	-.-	8/11/2022 0:28	-.-
8/11/2022 0:05	-.-	8/11/2022 0:13	-.-	8/11/2022 0:21	-.-	8/11/2022 0:29	-.-
8/11/2022 0:04	0.04	8/11/2022 0:12	0.04	8/11/2022 0:20	0.05	8/11/2022 0:28	0.04
8/11/2022 0:05	-.-	8/11/2022 0:13	-.-	8/11/2022 0:21	-.-	8/11/2022 0:29	-.-
8/11/2022 0:06	-.-	8/11/2022 0:14	-.-	8/11/2022 0:22	-.-	8/11/2022 0:30	-.-

8/11/2022 0:29	0.04	8/11/2022 0:37	0.04	8/11/2022 0:45	0.04	8/11/2022 0:53	0.04
8/11/2022 0:30	-.-	8/11/2022 0:38	-.-	8/11/2022 0:46	-.-	8/11/2022 0:54	-.-
8/11/2022 0:31	-.-	8/11/2022 0:39	-.-	8/11/2022 0:47	-.-	8/11/2022 0:55	-.-
8/11/2022 0:30	0.04	8/11/2022 0:38	0.04	8/11/2022 0:46	0.04	8/11/2022 0:54	0.04
8/11/2022 0:31	-.-	8/11/2022 0:39	-.-	8/11/2022 0:47	-.-	8/11/2022 0:55	-.-
8/11/2022 0:32	-.-	8/11/2022 0:40	-.-	8/11/2022 0:48	-.-	8/11/2022 0:56	-.-
8/11/2022 0:31	0.04	8/11/2022 0:39	0.05	8/11/2022 0:47	0.04	8/11/2022 0:55	0.05
8/11/2022 0:32	-.-	8/11/2022 0:40	-.-	8/11/2022 0:48	-.-	8/11/2022 0:56	-.-
8/11/2022 0:33	-.-	8/11/2022 0:41	-.-	8/11/2022 0:49	-.-	8/11/2022 0:57	-.-
8/11/2022 0:32	0.04	8/11/2022 0:40	0.04	8/11/2022 0:48	0.04	8/11/2022 0:56	0.04
8/11/2022 0:33	-.-	8/11/2022 0:41	-.-	8/11/2022 0:49	-.-	8/11/2022 0:57	-.-
8/11/2022 0:34	-.-	8/11/2022 0:42	-.-	8/11/2022 0:50	-.-	8/11/2022 0:58	-.-
8/11/2022 0:33	0.04	8/11/2022 0:41	0.04	8/11/2022 0:49	0.05	8/11/2022 0:57	0.04
8/11/2022 0:34	-.-	8/11/2022 0:42	-.-	8/11/2022 0:50	-.-	8/11/2022 0:58	-.-
8/11/2022 0:35	-.-	8/11/2022 0:43	-.-	8/11/2022 0:51	-.-	8/11/2022 0:59	-.-
8/11/2022 0:34	0.04	8/11/2022 0:42	0.09	8/11/2022 0:50	0.04	8/11/2022 0:58	0.04
8/11/2022 0:35	-.-	8/11/2022 0:43	-.-	8/11/2022 0:51	-.-	8/11/2022 0:59	-.-
8/11/2022 0:36	-.-	8/11/2022 0:44	-.-	8/11/2022 0:52	-.-	8/11/2022 1:00	-.-
8/11/2022 0:35	0.04	8/11/2022 0:43	0.09	8/11/2022 0:51	0.04	8/11/2022 0:59	0.04
8/11/2022 0:36	-.-	8/11/2022 0:44	-.-	8/11/2022 0:52	-.-	8/11/2022 1:00	-.-
8/11/2022 0:37	-.-	8/11/2022 0:45	-.-	8/11/2022 0:53	-.-	8/11/2022 1:01	-.-
8/11/2022 0:36	0.05	8/11/2022 0:44	0.04	8/11/2022 0:52	0.04	8/11/2022 1:00	0.04
8/11/2022 0:37	-.-	8/11/2022 0:45	-.-	8/11/2022 0:53	-.-	8/11/2022 1:01	-.-
8/11/2022 0:38	-.-	8/11/2022 0:46	-.-	8/11/2022 0:54	-.-	8/11/2022 1:02	-.-

8/11/2022 1:01	0.04	8/11/2022 1:09	0.05	8/11/2022 1:17	0.05	8/11/2022 1:25	0.04
8/11/2022 1:02	-.-	8/11/2022 1:10	-.-	8/11/2022 1:18	-.-	8/11/2022 1:26	-.-
8/11/2022 1:03	-.-	8/11/2022 1:11	-.-	8/11/2022 1:19	-.-	8/11/2022 1:27	-.-
8/11/2022 1:02	0.04	8/11/2022 1:10	0.05	8/11/2022 1:18	0.06	8/11/2022 1:26	0.04
8/11/2022 1:03	-.-	8/11/2022 1:11	-.-	8/11/2022 1:19	-.-	8/11/2022 1:27	-.-
8/11/2022 1:04	-.-	8/11/2022 1:12	-.-	8/11/2022 1:20	-.-	8/11/2022 1:28	-.-
8/11/2022 1:03	0.04	8/11/2022 1:11	0.04	8/11/2022 1:19	0.04	8/11/2022 1:27	0.04
8/11/2022 1:04	-.-	8/11/2022 1:12	-.-	8/11/2022 1:20	-.-	8/11/2022 1:28	-.-
8/11/2022 1:05	-.-	8/11/2022 1:13	-.-	8/11/2022 1:21	-.-	8/11/2022 1:29	-.-
8/11/2022 1:04	0.04	8/11/2022 1:12	0.04	8/11/2022 1:20	0.04	8/11/2022 1:28	0.05
8/11/2022 1:05	-.-	8/11/2022 1:13	-.-	8/11/2022 1:21	-.-	8/11/2022 1:29	-.-
8/11/2022 1:06	-.-	8/11/2022 1:14	-.-	8/11/2022 1:22	-.-	8/11/2022 1:30	-.-
8/11/2022 1:05	0.04	8/11/2022 1:13	0.05	8/11/2022 1:21	0.04	8/11/2022 1:29	0.04
8/11/2022 1:06	-.-	8/11/2022 1:14	-.-	8/11/2022 1:22	-.-	8/11/2022 1:30	-.-
8/11/2022 1:07	-.-	8/11/2022 1:15	-.-	8/11/2022 1:23	-.-	8/11/2022 1:31	-.-
8/11/2022 1:06	0.04	8/11/2022 1:14	0.05	8/11/2022 1:22	0.04	8/11/2022 1:30	0.04
8/11/2022 1:07	-.-	8/11/2022 1:15	-.-	8/11/2022 1:23	-.-	8/11/2022 1:31	-.-
8/11/2022 1:08	-.-	8/11/2022 1:16	-.-	8/11/2022 1:24	-.-	8/11/2022 1:32	-.-
8/11/2022 1:07	0.04	8/11/2022 1:15	0.04	8/11/2022 1:23	0.04	8/11/2022 1:31	0.05
8/11/2022 1:08	-.-	8/11/2022 1:16	-.-	8/11/2022 1:24	-.-	8/11/2022 1:32	-.-
8/11/2022 1:09	-.-	8/11/2022 1:17	-.-	8/11/2022 1:25	-.-	8/11/2022 1:33	-.-
8/11/2022 1:08	0.04	8/11/2022 1:16	0.04	8/11/2022 1:24	0.04	8/11/2022 1:32	0.05
8/11/2022 1:09	-.-	8/11/2022 1:17	-.-	8/11/2022 1:25	-.-	8/11/2022 1:33	-.-
8/11/2022 1:10	-.-	8/11/2022 1:18	-.-	8/11/2022 1:26	-.-	8/11/2022 1:34	-.-

8/11/2022 1:33	0.04	8/11/2022 1:41	0.04	8/11/2022 1:49	0.04	8/11/2022 1:57	0.04
8/11/2022 1:34	-.-	8/11/2022 1:42	-.-	8/11/2022 1:50	-.-	8/11/2022 1:58	-.-
8/11/2022 1:35	-.-	8/11/2022 1:43	-.-	8/11/2022 1:51	-.-	8/11/2022 1:59	-.-
8/11/2022 1:34	0.04	8/11/2022 1:42	0.05	8/11/2022 1:50	0.04	8/11/2022 1:58	0.04
8/11/2022 1:35	-.-	8/11/2022 1:43	-.-	8/11/2022 1:51	-.-	8/11/2022 1:59	-.-
8/11/2022 1:36	-.-	8/11/2022 1:44	-.-	8/11/2022 1:52	-.-	8/11/2022 2:00	-.-
8/11/2022 1:35	0.04	8/11/2022 1:43	0.04	8/11/2022 1:51	0.04	8/11/2022 1:59	0.05
8/11/2022 1:36	-.-	8/11/2022 1:44	-.-	8/11/2022 1:52	-.-	8/11/2022 2:00	-.-
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8/11/2022 1:36	0.04	8/11/2022 1:44	0.05	8/11/2022 1:52	0.05	8/11/2022 2:00	0.04
8/11/2022 1:37	-.-	8/11/2022 1:45	-.-	8/11/2022 1:53	-.-	8/11/2022 2:01	-.-
8/11/2022 1:38	-.-	8/11/2022 1:46	-.-	8/11/2022 1:54	-.-	8/11/2022 2:02	-.-
8/11/2022 1:37	0.05	8/11/2022 1:45	0.04	8/11/2022 1:53	0.05	8/11/2022 2:01	0.05
8/11/2022 1:38	-.-	8/11/2022 1:46	-.-	8/11/2022 1:54	-.-	8/11/2022 2:02	-.-
8/11/2022 1:39	-.-	8/11/2022 1:47	-.-	8/11/2022 1:55	-.-	8/11/2022 2:03	-.-
8/11/2022 1:38	0.05	8/11/2022 1:46	0.04	8/11/2022 1:54	0.04	8/11/2022 2:02	0.04
8/11/2022 1:39	-.-	8/11/2022 1:47	-.-	8/11/2022 1:55	-.-	8/11/2022 2:03	-.-
8/11/2022 1:40	-.-	8/11/2022 1:48	-.-	8/11/2022 1:56	-.-	8/11/2022 2:04	-.-
8/11/2022 1:39	0.04	8/11/2022 1:47	0.04	8/11/2022 1:55	0.04	8/11/2022 2:03	0.04
8/11/2022 1:40	-.-	8/11/2022 1:48	-.-	8/11/2022 1:56	-.-	8/11/2022 2:04	-.-
8/11/2022 1:41	-.-	8/11/2022 1:49	-.-	8/11/2022 1:57	-.-	8/11/2022 2:05	-.-
8/11/2022 1:40	0.04	8/11/2022 1:48	0.04	8/11/2022 1:56	0.04	8/11/2022 2:04	0.04
8/11/2022 1:41	-.-	8/11/2022 1:49	-.-	8/11/2022 1:57	-.-	8/11/2022 2:05	-.-
8/11/2022 1:42	-.-	8/11/2022 1:50	-.-	8/11/2022 1:58	-.-	8/11/2022 2:06	-.-

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8/11/2022 2:07	-.-	8/11/2022 2:15	-.-	8/11/2022 2:23	-.-	8/11/2022 2:31	-.-
8/11/2022 2:06	0.04	8/11/2022 2:14	0.04	8/11/2022 2:22	0.05	8/11/2022 2:30	0.04
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8/11/2022 2:08	-.-	8/11/2022 2:16	-.-	8/11/2022 2:24	-.-	8/11/2022 2:32	-.-
8/11/2022 2:07	0.05	8/11/2022 2:15	0.04	8/11/2022 2:23	0.05	8/11/2022 2:31	0.05
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8/11/2022 2:09	-.-	8/11/2022 2:17	-.-	8/11/2022 2:25	-.-	8/11/2022 2:33	-.-
8/11/2022 2:08	0.05	8/11/2022 2:16	0.04	8/11/2022 2:24	0.05	8/11/2022 2:32	0.04
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8/11/2022 2:10	-.-	8/11/2022 2:18	-.-	8/11/2022 2:26	-.-	8/11/2022 2:34	-.-
8/11/2022 2:09	0.04	8/11/2022 2:17	0.04	8/11/2022 2:25	0.04	8/11/2022 2:33	0.04
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8/11/2022 2:11	-.-	8/11/2022 2:19	-.-	8/11/2022 2:27	-.-	8/11/2022 2:35	-.-
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8/11/2022 2:12	-.-	8/11/2022 2:20	-.-	8/11/2022 2:28	-.-	8/11/2022 2:36	-.-
8/11/2022 2:11	0.04	8/11/2022 2:19	0.04	8/11/2022 2:27	0.04	8/11/2022 2:35	0.04
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8/11/2022 2:13	-.-	8/11/2022 2:21	-.-	8/11/2022 2:29	-.-	8/11/2022 2:37	-.-
8/11/2022 2:12	0.04	8/11/2022 2:20	0.04	8/11/2022 2:28	0.04	8/11/2022 2:36	0.05
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8/11/2022 2:14	-.-	8/11/2022 2:22	-.-	8/11/2022 2:30	-.-	8/11/2022 2:38	-.-

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8/11/2022 2:38	-.-	8/11/2022 2:46	-.-	8/11/2022 2:54	-.-	8/11/2022 3:02	-.-
8/11/2022 2:39	-.-	8/11/2022 2:47	-.-	8/11/2022 2:55	-.-	8/11/2022 3:03	-.-
8/11/2022 2:38	0.04	8/11/2022 2:46	0.04	8/11/2022 2:54	0.05	8/11/2022 3:02	0.05
8/11/2022 2:39	-.-	8/11/2022 2:47	-.-	8/11/2022 2:55	-.-	8/11/2022 3:03	-.-
8/11/2022 2:40	-.-	8/11/2022 2:48	-.-	8/11/2022 2:56	-.-	8/11/2022 3:04	-.-
8/11/2022 2:39	0.04	8/11/2022 2:47	0.04	8/11/2022 2:55	0.04	8/11/2022 3:03	0.04
8/11/2022 2:40	-.-	8/11/2022 2:48	-.-	8/11/2022 2:56	-.-	8/11/2022 3:04	-.-
8/11/2022 2:41	-.-	8/11/2022 2:49	-.-	8/11/2022 2:57	-.-	8/11/2022 3:05	-.-
8/11/2022 2:40	0.04	8/11/2022 2:48	0.04	8/11/2022 2:56	0.04	8/11/2022 3:04	0.04
8/11/2022 2:41	-.-	8/11/2022 2:49	-.-	8/11/2022 2:57	-.-	8/11/2022 3:05	-.-
8/11/2022 2:42	-.-	8/11/2022 2:50	-.-	8/11/2022 2:58	-.-	8/11/2022 3:06	-.-
8/11/2022 2:41	0.04	8/11/2022 2:49	0.05	8/11/2022 2:57	0.04	8/11/2022 3:05	0.04
8/11/2022 2:42	-.-	8/11/2022 2:50	-.-	8/11/2022 2:58	-.-	8/11/2022 3:06	-.-
8/11/2022 2:43	-.-	8/11/2022 2:51	-.-	8/11/2022 2:59	-.-	8/11/2022 3:07	-.-
8/11/2022 2:42	0.04	8/11/2022 2:50	0.04	8/11/2022 2:58	0.04	8/11/2022 3:06	0.04
8/11/2022 2:43	-.-	8/11/2022 2:51	-.-	8/11/2022 2:59	-.-	8/11/2022 3:07	-.-
8/11/2022 2:44	-.-	8/11/2022 2:52	-.-	8/11/2022 3:00	-.-	8/11/2022 3:08	-.-
8/11/2022 2:43	0.04	8/11/2022 2:51	0.05	8/11/2022 2:59	0.04	8/11/2022 3:07	0.04
8/11/2022 2:44	-.-	8/11/2022 2:52	-.-	8/11/2022 3:00	-.-	8/11/2022 3:08	-.-
8/11/2022 2:45	-.-	8/11/2022 2:53	-.-	8/11/2022 3:01	-.-	8/11/2022 3:09	-.-
8/11/2022 2:44	0.04	8/11/2022 2:52	0.05	8/11/2022 3:00	0.05	8/11/2022 3:08	0.04
8/11/2022 2:45	-.-	8/11/2022 2:53	-.-	8/11/2022 3:01	-.-	8/11/2022 3:09	-.-
8/11/2022 2:46	-.-	8/11/2022 2:54	-.-	8/11/2022 3:02	-.-	8/11/2022 3:10	-.-

8/11/2022 3:09	0.04	8/11/2022 3:17	0.04	8/11/2022 3:25	0.05	8/11/2022 3:33	0.04
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8/11/2022 3:12	-.-	8/11/2022 3:20	-.-	8/11/2022 3:28	-.-	8/11/2022 3:36	-.-
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8/11/2022 3:13	-.-	8/11/2022 3:21	-.-	8/11/2022 3:29	-.-	8/11/2022 3:37	-.-
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8/11/2022 3:14	-.-	8/11/2022 3:22	-.-	8/11/2022 3:30	-.-	8/11/2022 3:38	-.-
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8/11/2022 3:15	-.-	8/11/2022 3:23	-.-	8/11/2022 3:31	-.-	8/11/2022 3:39	-.-
8/11/2022 3:14	0.04	8/11/2022 3:22	0.04	8/11/2022 3:30	0.04	8/11/2022 3:38	0.04
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8/11/2022 3:18	-.-	8/11/2022 3:26	-.-	8/11/2022 3:34	-.-	8/11/2022 3:42	-.-

8/11/2022 3:41	0.04	8/11/2022 3:49	0.04	8/11/2022 3:57	0.05	8/11/2022 4:05	0.04
8/11/2022 3:42	-.-	8/11/2022 3:50	-.-	8/11/2022 3:58	-.-	8/11/2022 4:06	-.-
8/11/2022 3:43	-.-	8/11/2022 3:51	-.-	8/11/2022 3:59	-.-	8/11/2022 4:07	-.-
8/11/2022 3:42	0.04	8/11/2022 3:50	0.04	8/11/2022 3:58	0.04	8/11/2022 4:06	0.04
8/11/2022 3:43	-.-	8/11/2022 3:51	-.-	8/11/2022 3:59	-.-	8/11/2022 4:07	-.-
8/11/2022 3:44	-.-	8/11/2022 3:52	-.-	8/11/2022 4:00	-.-	8/11/2022 4:08	-.-
8/11/2022 3:43	0.04	8/11/2022 3:51	0.04	8/11/2022 3:59	0.05	8/11/2022 4:07	0.04
8/11/2022 3:44	-.-	8/11/2022 3:52	-.-	8/11/2022 4:00	-.-	8/11/2022 4:08	-.-
8/11/2022 3:45	-.-	8/11/2022 3:53	-.-	8/11/2022 4:01	-.-	8/11/2022 4:09	-.-
8/11/2022 3:44	0.04	8/11/2022 3:52	0.04	8/11/2022 4:00	0.05	8/11/2022 4:08	0.05
8/11/2022 3:45	-.-	8/11/2022 3:53	-.-	8/11/2022 4:01	-.-	8/11/2022 4:09	-.-
8/11/2022 3:46	-.-	8/11/2022 3:54	-.-	8/11/2022 4:02	-.-	8/11/2022 4:10	-.-
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8/11/2022 3:47	-.-	8/11/2022 3:55	-.-	8/11/2022 4:03	-.-	8/11/2022 4:11	-.-
8/11/2022 3:46	0.04	8/11/2022 3:54	0.04	8/11/2022 4:02	0.04	8/11/2022 4:10	0.05
8/11/2022 3:47	-.-	8/11/2022 3:55	-.-	8/11/2022 4:03	-.-	8/11/2022 4:11	-.-
8/11/2022 3:48	-.-	8/11/2022 3:56	-.-	8/11/2022 4:04	-.-	8/11/2022 4:12	-.-
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8/11/2022 4:17	-.-	8/11/2022 4:25	-.-	8/11/2022 4:33	-.-	8/11/2022 4:41	-.-
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8/11/2022 4:17	-.-	8/11/2022 4:25	-.-	8/11/2022 4:33	-.-	8/11/2022 4:41	-.-
8/11/2022 4:18	-.-	8/11/2022 4:26	-.-	8/11/2022 4:34	-.-	8/11/2022 4:42	-.-
8/11/2022 4:17	0.05	8/11/2022 4:25	0.04	8/11/2022 4:33	0.05	8/11/2022 4:41	0.04
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8/11/2022 4:19	-.-	8/11/2022 4:27	-.-	8/11/2022 4:35	-.-	8/11/2022 4:43	-.-
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8/11/2022 4:20	-.-	8/11/2022 4:28	-.-	8/11/2022 4:36	-.-	8/11/2022 4:44	-.-
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8/11/2022 4:21	-.-	8/11/2022 4:29	-.-	8/11/2022 4:37	-.-	8/11/2022 4:45	-.-
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8/11/2022 4:22	-.-	8/11/2022 4:30	-.-	8/11/2022 4:38	-.-	8/11/2022 4:46	-.-

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8/11/2022 4:47	-.-	8/11/2022 4:55	-.-	8/11/2022 5:03	-.-	8/11/2022 5:11	-.-
8/11/2022 4:46	0.04	8/11/2022 4:54	0.04	8/11/2022 5:02	0.05	8/11/2022 5:10	0.04
8/11/2022 4:47	-.-	8/11/2022 4:55	-.-	8/11/2022 5:03	-.-	8/11/2022 5:11	-.-
8/11/2022 4:48	-.-	8/11/2022 4:56	-.-	8/11/2022 5:04	-.-	8/11/2022 5:12	-.-
8/11/2022 4:47	0.04	8/11/2022 4:55	0.04	8/11/2022 5:03	0.04	8/11/2022 5:11	0.04
8/11/2022 4:48	-.-	8/11/2022 4:56	-.-	8/11/2022 5:04	-.-	8/11/2022 5:12	-.-
8/11/2022 4:49	-.-	8/11/2022 4:57	-.-	8/11/2022 5:05	-.-	8/11/2022 5:13	-.-
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8/11/2022 4:50	-.-	8/11/2022 4:58	-.-	8/11/2022 5:06	-.-	8/11/2022 5:14	-.-
8/11/2022 4:49	0.04	8/11/2022 4:57	0.04	8/11/2022 5:05	0.04	8/11/2022 5:13	0.04
8/11/2022 4:50	-.-	8/11/2022 4:58	-.-	8/11/2022 5:06	-.-	8/11/2022 5:14	-.-
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8/11/2022 4:50	0.05	8/11/2022 4:58	0.05	8/11/2022 5:06	0.04	8/11/2022 5:14	0.04
8/11/2022 4:51	-.-	8/11/2022 4:59	-.-	8/11/2022 5:07	-.-	8/11/2022 5:15	-.-
8/11/2022 4:52	-.-	8/11/2022 5:00	-.-	8/11/2022 5:08	-.-	8/11/2022 5:16	-.-
8/11/2022 4:51	0.05	8/11/2022 4:59	0.04	8/11/2022 5:07	0.05	8/11/2022 5:15	0.04
8/11/2022 4:52	-.-	8/11/2022 5:00	-.-	8/11/2022 5:08	-.-	8/11/2022 5:16	-.-
8/11/2022 4:53	-.-	8/11/2022 5:01	-.-	8/11/2022 5:09	-.-	8/11/2022 5:17	-.-
8/11/2022 4:52	0.05	8/11/2022 5:00	0.04	8/11/2022 5:08	0.04	8/11/2022 5:16	0.04
8/11/2022 4:53	-.-	8/11/2022 5:01	-.-	8/11/2022 5:09	-.-	8/11/2022 5:17	-.-
8/11/2022 4:54	-.-	8/11/2022 5:02	-.-	8/11/2022 5:10	-.-	8/11/2022 5:18	-.-

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8/11/2022 5:18	-.-	8/11/2022 5:26	-.-	8/11/2022 5:34	-.-	8/11/2022 5:42	-.-
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8/11/2022 5:22	0.04	8/11/2022 5:30	0.05	8/11/2022 5:38	0.09	8/11/2022 5:46	0.04
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8/11/2022 5:24	-.-	8/11/2022 5:32	-.-	8/11/2022 5:40	-.-	8/11/2022 5:48	-.-
8/11/2022 5:23	0.05	8/11/2022 5:31	0.04	8/11/2022 5:39	0.04	8/11/2022 5:47	0.04
8/11/2022 5:24	-.-	8/11/2022 5:32	-.-	8/11/2022 5:40	-.-	8/11/2022 5:48	-.-
8/11/2022 5:25	-.-	8/11/2022 5:33	-.-	8/11/2022 5:41	-.-	8/11/2022 5:49	-.-
8/11/2022 5:24	0.04	8/11/2022 5:32	0.05	8/11/2022 5:40	0.04	8/11/2022 5:48	0.04
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8/11/2022 5:26	-.-	8/11/2022 5:34	-.-	8/11/2022 5:42	-.-	8/11/2022 5:50	-.-

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8/11/2022 5:51	-.-	8/11/2022 5:59	-.-	8/11/2022 6:07	-.-	8/11/2022 6:15	-.-
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8/11/2022 5:52	-.-	8/11/2022 6:00	-.-	8/11/2022 6:08	-.-	8/11/2022 6:16	-.-
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8/11/2022 5:53	-.-	8/11/2022 6:01	-.-	8/11/2022 6:09	-.-	8/11/2022 6:17	-.-
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8/11/2022 5:56	-.-	8/11/2022 6:04	-.-	8/11/2022 6:12	-.-	8/11/2022 6:20	-.-
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8/11/2022 5:56	-.-	8/11/2022 6:04	-.-	8/11/2022 6:12	-.-	8/11/2022 6:20	-.-
8/11/2022 5:57	-.-	8/11/2022 6:05	-.-	8/11/2022 6:13	-.-	8/11/2022 6:21	-.-
8/11/2022 5:56	0.05	8/11/2022 6:04	0.04	8/11/2022 6:12	0.05	8/11/2022 6:20	0.04
8/11/2022 5:57	-.-	8/11/2022 6:05	-.-	8/11/2022 6:13	-.-	8/11/2022 6:21	-.-
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8/11/2022 6:23	-.-	8/11/2022 6:31	-.-	8/11/2022 6:39	-.-	8/11/2022 6:47	-.-
8/11/2022 6:22	0.06	8/11/2022 6:30	0.05	8/11/2022 6:38	0.08	8/11/2022 6:46	0.04
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8/11/2022 6:24	-.-	8/11/2022 6:32	-.-	8/11/2022 6:40	-.-	8/11/2022 6:48	-.-
8/11/2022 6:23	0.04	8/11/2022 6:31	0.04	8/11/2022 6:39	0.05	8/11/2022 6:47	0.05
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8/11/2022 6:25	-.-	8/11/2022 6:33	-.-	8/11/2022 6:41	-.-	8/11/2022 6:49	-.-
8/11/2022 6:24	0.04	8/11/2022 6:32	0.04	8/11/2022 6:40	0.05	8/11/2022 6:48	0.05
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8/11/2022 6:26	-.-	8/11/2022 6:34	-.-	8/11/2022 6:42	-.-	8/11/2022 6:50	-.-
8/11/2022 6:25	0.07	8/11/2022 6:33	0.05	8/11/2022 6:41	0.04	8/11/2022 6:49	0.04
8/11/2022 6:26	-.-	8/11/2022 6:34	-.-	8/11/2022 6:42	-.-	8/11/2022 6:50	-.-
8/11/2022 6:27	-.-	8/11/2022 6:35	-.-	8/11/2022 6:43	-.-	8/11/2022 6:51	-.-
8/11/2022 6:26	0.05	8/11/2022 6:34	0.04	8/11/2022 6:42	0.05	8/11/2022 6:50	0.06
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8/11/2022 6:28	-.-	8/11/2022 6:36	-.-	8/11/2022 6:44	-.-	8/11/2022 6:52	-.-
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8/11/2022 6:29	-.-	8/11/2022 6:37	-.-	8/11/2022 6:45	-.-	8/11/2022 6:53	-.-
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8/11/2022 6:55	-.-	8/11/2022 7:03	-.-	8/11/2022 7:11	-.-	8/11/2022 7:19	-.-
8/11/2022 6:56	-.-	8/11/2022 7:04	-.-	8/11/2022 7:12	-.-	8/11/2022 7:20	-.-
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8/11/2022 6:57	-.-	8/11/2022 7:05	-.-	8/11/2022 7:13	-.-	8/11/2022 7:21	-.-
8/11/2022 6:56	0.04	8/11/2022 7:04	0.04	8/11/2022 7:12	0.06	8/11/2022 7:20	0.04
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8/11/2022 6:57	0.04	8/11/2022 7:05	0.04	8/11/2022 7:13	0.04	8/11/2022 7:21	0.05
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8/11/2022 6:59	-.-	8/11/2022 7:07	-.-	8/11/2022 7:15	-.-	8/11/2022 7:23	-.-
8/11/2022 6:58	0.05	8/11/2022 7:06	0.04	8/11/2022 7:14	0.05	8/11/2022 7:22	0.06
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8/11/2022 7:00	-.-	8/11/2022 7:08	-.-	8/11/2022 7:16	-.-	8/11/2022 7:24	-.-
8/11/2022 6:59	0.05	8/11/2022 7:07	0.04	8/11/2022 7:15	0.04	8/11/2022 7:23	0.05
8/11/2022 7:00	-.-	8/11/2022 7:08	-.-	8/11/2022 7:16	-.-	8/11/2022 7:24	-.-
8/11/2022 7:01	-.-	8/11/2022 7:09	-.-	8/11/2022 7:17	-.-	8/11/2022 7:25	-.-
8/11/2022 7:00	0.05	8/11/2022 7:08	0.04	8/11/2022 7:16	0.05	8/11/2022 7:24	0.05
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8/11/2022 7:27	-.-	8/11/2022 7:35	-.-	8/11/2022 7:43	-.-	8/11/2022 7:51	-.-
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8/11/2022 7:29	-.-	8/11/2022 7:37	-.-	8/11/2022 7:45	-.-	8/11/2022 7:53	-.-
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8/11/2022 7:30	-.-	8/11/2022 7:38	-.-	8/11/2022 7:46	-.-	8/11/2022 7:54	-.-
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8/11/2022 7:31	-.-	8/11/2022 7:39	-.-	8/11/2022 7:47	-.-	8/11/2022 7:55	-.-
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8/11/2022 7:32	-.-	8/11/2022 7:40	-.-	8/11/2022 7:48	-.-	8/11/2022 7:56	-.-
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8/11/2022 7:33	-.-	8/11/2022 7:41	-.-	8/11/2022 7:49	-.-	8/11/2022 7:57	-.-
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8/11/2022 7:34	-.-	8/11/2022 7:42	-.-	8/11/2022 7:50	-.-	8/11/2022 7:58	-.-

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8/11/2022 7:59	-.-	8/11/2022 8:07	-.-	8/11/2022 8:15	-.-	8/11/2022 8:23	-.-
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8/11/2022 8:00	-.-	8/11/2022 8:08	-.-	8/11/2022 8:16	-.-	8/11/2022 8:24	-.-
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8/11/2022 8:01	-.-	8/11/2022 8:09	-.-	8/11/2022 8:17	-.-	8/11/2022 8:25	-.-
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8/11/2022 8:02	-.-	8/11/2022 8:10	-.-	8/11/2022 8:18	-.-	8/11/2022 8:26	-.-
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8/11/2022 8:03	-.-	8/11/2022 8:11	-.-	8/11/2022 8:19	-.-	8/11/2022 8:27	-.-
8/11/2022 8:02	0.05	8/11/2022 8:10	0.04	8/11/2022 8:18	0.05	8/11/2022 8:26	0.07
8/11/2022 8:03	-.-	8/11/2022 8:11	-.-	8/11/2022 8:19	-.-	8/11/2022 8:27	-.-
8/11/2022 8:04	-.-	8/11/2022 8:12	-.-	8/11/2022 8:20	-.-	8/11/2022 8:28	-.-
8/11/2022 8:03	0.04	8/11/2022 8:11	0.04	8/11/2022 8:19	0.04	8/11/2022 8:27	0.05
8/11/2022 8:04	-.-	8/11/2022 8:12	-.-	8/11/2022 8:20	-.-	8/11/2022 8:28	-.-
8/11/2022 8:05	-.-	8/11/2022 8:13	-.-	8/11/2022 8:21	-.-	8/11/2022 8:29	-.-
8/11/2022 8:04	0.04	8/11/2022 8:12	0.04	8/11/2022 8:20	0.04	8/11/2022 8:28	0.05
8/11/2022 8:05	-.-	8/11/2022 8:13	-.-	8/11/2022 8:21	-.-	8/11/2022 8:29	-.-
8/11/2022 8:06	-.-	8/11/2022 8:14	-.-	8/11/2022 8:22	-.-	8/11/2022 8:30	-.-

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8/11/2022 8:31	-.-	8/11/2022 8:39	-.-	8/11/2022 8:47	-.-	8/11/2022 8:55	-.-
8/11/2022 8:30	0.04	8/11/2022 8:38	0.05	8/11/2022 8:46	0.04	8/11/2022 8:54	0.05
8/11/2022 8:31	-.-	8/11/2022 8:39	-.-	8/11/2022 8:47	-.-	8/11/2022 8:55	-.-
8/11/2022 8:32	-.-	8/11/2022 8:40	-.-	8/11/2022 8:48	-.-	8/11/2022 8:56	-.-
8/11/2022 8:31	0.05	8/11/2022 8:39	0.05	8/11/2022 8:47	0.05	8/11/2022 8:55	0.05
8/11/2022 8:32	-.-	8/11/2022 8:40	-.-	8/11/2022 8:48	-.-	8/11/2022 8:56	-.-
8/11/2022 8:33	-.-	8/11/2022 8:41	-.-	8/11/2022 8:49	-.-	8/11/2022 8:57	-.-
8/11/2022 8:32	0.04	8/11/2022 8:40	0.05	8/11/2022 8:48	0.04	8/11/2022 8:56	0.05
8/11/2022 8:33	-.-	8/11/2022 8:41	-.-	8/11/2022 8:49	-.-	8/11/2022 8:57	-.-
8/11/2022 8:34	-.-	8/11/2022 8:42	-.-	8/11/2022 8:50	-.-	8/11/2022 8:58	-.-
8/11/2022 8:33	0.05	8/11/2022 8:41	0.04	8/11/2022 8:49	0.06	8/11/2022 8:57	0.07
8/11/2022 8:34	-.-	8/11/2022 8:42	-.-	8/11/2022 8:50	-.-	8/11/2022 8:58	-.-
8/11/2022 8:35	-.-	8/11/2022 8:43	-.-	8/11/2022 8:51	-.-	8/11/2022 8:59	-.-
8/11/2022 8:34	0.05	8/11/2022 8:42	0.04	8/11/2022 8:50	0.05	8/11/2022 8:58	0.05
8/11/2022 8:35	-.-	8/11/2022 8:43	-.-	8/11/2022 8:51	-.-	8/11/2022 8:59	-.-
8/11/2022 8:36	-.-	8/11/2022 8:44	-.-	8/11/2022 8:52	-.-	8/11/2022 9:00	-.-
8/11/2022 8:35	0.04	8/11/2022 8:43	0.05	8/11/2022 8:51	0.05	8/11/2022 8:59	0.04
8/11/2022 8:36	-.-	8/11/2022 8:44	-.-	8/11/2022 8:52	-.-	8/11/2022 9:00	-.-
8/11/2022 8:37	-.-	8/11/2022 8:45	-.-	8/11/2022 8:53	-.-	8/11/2022 9:01	-.-
8/11/2022 8:36	0.04	8/11/2022 8:44	0.05	8/11/2022 8:52	0.06	8/11/2022 9:00	0.05
8/11/2022 8:37	-.-	8/11/2022 8:45	-.-	8/11/2022 8:53	-.-	8/11/2022 9:01	-.-
8/11/2022 8:38	-.-	8/11/2022 8:46	-.-	8/11/2022 8:54	-.-	8/11/2022 9:02	-.-

8/11/2022 9:01	0.05	8/11/2022 9:09	0.04	8/11/2022 9:17	0.05	8/11/2022 9:25	0.05
8/11/2022 9:02	-.-	8/11/2022 9:10	-.-	8/11/2022 9:18	-.-	8/11/2022 9:26	-.-
8/11/2022 9:03	-.-	8/11/2022 9:11	-.-	8/11/2022 9:19	-.-	8/11/2022 9:27	-.-
8/11/2022 9:02	0.07	8/11/2022 9:10	0.05	8/11/2022 9:18	0.05	8/11/2022 9:26	0.05
8/11/2022 9:03	-.-	8/11/2022 9:11	-.-	8/11/2022 9:19	-.-	8/11/2022 9:27	-.-
8/11/2022 9:04	-.-	8/11/2022 9:12	-.-	8/11/2022 9:20	-.-	8/11/2022 9:28	-.-
8/11/2022 9:03	0.05	8/11/2022 9:11	0.05	8/11/2022 9:19	0.04	8/11/2022 9:27	0.05
8/11/2022 9:04	-.-	8/11/2022 9:12	-.-	8/11/2022 9:20	-.-	8/11/2022 9:28	-.-
8/11/2022 9:05	-.-	8/11/2022 9:13	-.-	8/11/2022 9:21	-.-	8/11/2022 9:29	-.-
8/11/2022 9:04	0.06	8/11/2022 9:12	0.04	8/11/2022 9:20	0.05	8/11/2022 9:28	0.07
8/11/2022 9:05	-.-	8/11/2022 9:13	-.-	8/11/2022 9:21	-.-	8/11/2022 9:29	-.-
8/11/2022 9:06	-.-	8/11/2022 9:14	-.-	8/11/2022 9:22	-.-	8/11/2022 9:30	-.-
8/11/2022 9:05	0.04	8/11/2022 9:13	0.05	8/11/2022 9:21	0.04	8/11/2022 9:29	0.05
8/11/2022 9:06	-.-	8/11/2022 9:14	-.-	8/11/2022 9:22	-.-	8/11/2022 9:30	-.-
8/11/2022 9:07	-.-	8/11/2022 9:15	-.-	8/11/2022 9:23	-.-	8/11/2022 9:31	-.-
8/11/2022 9:06	0.04	8/11/2022 9:14	0.04	8/11/2022 9:22	0.06	8/11/2022 9:30	0.07
8/11/2022 9:07	-.-	8/11/2022 9:15	-.-	8/11/2022 9:23	-.-	8/11/2022 9:31	-.-
8/11/2022 9:08	-.-	8/11/2022 9:16	-.-	8/11/2022 9:24	-.-	8/11/2022 9:32	-.-
8/11/2022 9:07	0.04	8/11/2022 9:15	0.05	8/11/2022 9:23	0.05	8/11/2022 9:31	0.04
8/11/2022 9:08	-.-	8/11/2022 9:16	-.-	8/11/2022 9:24	-.-	8/11/2022 9:32	-.-
8/11/2022 9:09	-.-	8/11/2022 9:17	-.-	8/11/2022 9:25	-.-	8/11/2022 9:33	-.-
8/11/2022 9:08	0.05	8/11/2022 9:16	0.04	8/11/2022 9:24	0.06	8/11/2022 9:32	0.04
8/11/2022 9:09	-.-	8/11/2022 9:17	-.-	8/11/2022 9:25	-.-	8/11/2022 9:33	-.-
8/11/2022 9:10	-.-	8/11/2022 9:18	-.-	8/11/2022 9:26	-.-	8/11/2022 9:34	-.-

8/11/2022 9:33	0.05	8/11/2022 9:41	0.05	8/11/2022 9:49	0.05	8/11/2022 9:57	0.04
8/11/2022 9:34	-.-	8/11/2022 9:42	-.-	8/11/2022 9:50	-.-	8/11/2022 9:58	-.-
8/11/2022 9:35	-.-	8/11/2022 9:43	-.-	8/11/2022 9:51	-.-	8/11/2022 9:59	-.-
8/11/2022 9:34	0.06	8/11/2022 9:42	0.05	8/11/2022 9:50	0.06	8/11/2022 9:58	0.07
8/11/2022 9:35	-.-	8/11/2022 9:43	-.-	8/11/2022 9:51	-.-	8/11/2022 9:59	-.-
8/11/2022 9:36	-.-	8/11/2022 9:44	-.-	8/11/2022 9:52	-.-	8/11/2022 10:00	-.-
8/11/2022 9:35	0.06	8/11/2022 9:43	0.05	8/11/2022 9:51	0.08	8/11/2022 9:59	0.05
8/11/2022 9:36	-.-	8/11/2022 9:44	-.-	8/11/2022 9:52	-.-	8/11/2022 10:00	-.-
8/11/2022 9:37	-.-	8/11/2022 9:45	-.-	8/11/2022 9:53	-.-	8/11/2022 10:01	-.-
8/11/2022 9:36	0.05	8/11/2022 9:44	0.05	8/11/2022 9:52	0.05	8/11/2022 10:00	0.05
8/11/2022 9:37	-.-	8/11/2022 9:45	-.-	8/11/2022 9:53	-.-	8/11/2022 10:01	-.-
8/11/2022 9:38	-.-	8/11/2022 9:46	-.-	8/11/2022 9:54	-.-	8/11/2022 10:02	-.-
8/11/2022 9:37	0.05	8/11/2022 9:45	0.06	8/11/2022 9:53	0.05	8/11/2022 10:01	0.04
8/11/2022 9:38	-.-	8/11/2022 9:46	-.-	8/11/2022 9:54	-.-	8/11/2022 10:02	-.-
8/11/2022 9:39	-.-	8/11/2022 9:47	-.-	8/11/2022 9:55	-.-	8/11/2022 10:03	-.-
8/11/2022 9:38	0.06	8/11/2022 9:46	0.05	8/11/2022 9:54	0.05	8/11/2022 10:02	0.05
8/11/2022 9:39	-.-	8/11/2022 9:47	-.-	8/11/2022 9:55	-.-	8/11/2022 10:03	-.-
8/11/2022 9:40	-.-	8/11/2022 9:48	-.-	8/11/2022 9:56	-.-	8/11/2022 10:04	-.-
8/11/2022 9:39	0.04	8/11/2022 9:47	0.05	8/11/2022 9:55	0.05	8/11/2022 10:03	0.04
8/11/2022 9:40	-.-	8/11/2022 9:48	-.-	8/11/2022 9:56	-.-	8/11/2022 10:04	-.-
8/11/2022 9:41	-.-	8/11/2022 9:49	-.-	8/11/2022 9:57	-.-	8/11/2022 10:05	-.-
8/11/2022 9:40	25.5	8/11/2022 9:48	0.06	8/11/2022 9:56	0.04	8/11/2022 10:04	0.05
8/11/2022 9:41	-.-	8/11/2022 9:49	-.-	8/11/2022 9:57	-.-	8/11/2022 10:05	-.-
8/11/2022 9:42	-.-	8/11/2022 9:50	-.-	8/11/2022 9:58	-.-	8/11/2022 10:06	-.-

8/11/2022 10:05	0.05	8/11/2022 10:13	0.05
8/11/2022 10:06	-.-	8/11/2022 10:14	-.-
8/11/2022 10:07	-.-	8/11/2022 10:15	-.-
8/11/2022 10:06	0.05	8/11/2022 10:14	0.06
8/11/2022 10:07	-.-	8/11/2022 10:15	-.-
8/11/2022 10:08	-.-	8/11/2022 10:16	-.-
8/11/2022 10:07	0.05	8/11/2022 10:15	0.05
8/11/2022 10:08	-.-	8/11/2022 10:16	-.-
8/11/2022 10:09	-.-	8/11/2022 10:17	-.-
8/11/2022 10:08	0.05	8/11/2022 10:16	0.04
8/11/2022 10:09	-.-	8/11/2022 10:17	-.-
8/11/2022 10:10	-.-	8/11/2022 10:18	-.-
8/11/2022 10:09	0.04	8/11/2022 10:17	0.04
8/11/2022 10:10	-.-	8/11/2022 10:18	-.-
8/11/2022 10:11	-.-	8/11/2022 10:19	-.-
8/11/2022 10:10	0.04	8/11/2022 10:18	0.05
8/11/2022 10:11	-.-	8/11/2022 10:19	-.-
8/11/2022 10:12	-.-	8/11/2022 10:20	-.-
8/11/2022 10:11	0.05	8/11/2022 10:19	0.04
8/11/2022 10:12	-.-	8/11/2022 10:20	-.-
8/11/2022 10:13	-.-	8/11/2022 10:21	-.-
8/11/2022 10:12	0.05	8/11/2022 10:20	0.55
8/11/2022 10:13	-.-	8/11/2022 10:21	1.8
8/11/2022 10:14	-.-		

APPENDIX J

Wildlife Incident Report Form

TEMBUSU Asia

WILDLIFE INCIDENT FORM

Part A – Wildlife Incident Details

The CEMMP In-charge is to complete the Form and submit to PM within 24 hours of reporting incident. Note:

Reference No. (by CEMMP In-charge)			
Personnel	**Reporting Person**	**Witness**	
Name:			
Contact Number:			
Title / Company:			
Time / Date of Wildlife Encounter	**Date**	**Time**	
Affected Area			
Weather:	☐ Clear	☐ Overcast	☐ Thunderstorm
	☐ Sunny	☐ Others (To Describe):	
Actual Location:			
Description of Area:	☐ Vegetated area	☐ Non-vegetated area	
	☐ Excavated area	☐ Others (to describe):	
Activities Carried Out Nearby at Time of Incident:	If there are no active works near wildlife encountered, please state so.		

Details of Animal			
Animal:	Where identifiable, please provide [Common Name (Scientific Name)] If animal cannot be identified, carcass to be described to the best of ability.		
Animal Condition:	☐ Active	☐ Outwardly injured (e.g. bleeding, limping)	☐ Flattened
	☐ Stationary	☐ Decomposed	☐ Trapped
	☐ Others (to describe):		
Photographs:	1) Close-up of Animal ☐ No Close-up available Please provide reason here if close-up photographs could not be obtained, e.g. unsafe to approach		
	2) Animal with surroundings or showing full width of road (if roadkill), indicating where the animal is.		
	☐ No photographs available. Reason: e.g. animal moved away too quickly		

Incident Details	
Incident Summary: To be filled by reporting party	Briefly describe when, what, who, where and how the incident happened. *Sample incident summary:* *[Personnel] was conducting [activity] on [date/time] when he observed an [animal] at [location]. The animal was observed to be [condition]. [Personnel] reported the incident to [contractor representative] who contacted the WMO. While awaiting wildlife response, [contractor] barricaded the area and continued monitoring for movement of animal.* If EMMP Specialist (Fauna) visited site: Recommended actions
Follow-up Actions: To be filled by CEMMP In-charge	☐ Animal rescued to NParks Shelter ☐ Immediate relocation ☐ Carcass transported to disposal location ☐ Others:_____
	☐ No Action Taken by CEMMP In-charge

Part B – Closure of Incident

Possible Causes What is/are the possible cause/s of the incident? (Man / Machine / Management / Medium / Mission)		
Preventive/Corrective Actions To be filled by CEMMP In-charge	**Close-up** To be filled by reporting party	
1)	Close-up Action.	Close-up Date
2)		Close-up Date
Closure of Incident Report		
Date of Closure of Incident Report:		
Acknowledged by PM (Name/Title):		