Contract 9175

Advance Engineering Study for the Proposed Downtown Line 2 Extension and a New Station on Existing North-South Line

Environmental Study Report
Biodiversity and Hydrology Study Report

Design Stage: Preliminary

Submitted by:
AECOM Singapore Pte Ltd

Submitted to:
Land Transport Authority

14 January 2025

Volume 5 of 5

Appendix A

Environmental Impact Register

Environmental Aspect	Description of Receptor		Potential Activities Causing Impact	Minimum Controls *(Good practices in addition to LTA's General Safety, Health and Environmental specifications)*	Significance of Potential Impact (assumes implementation of minimum controls)			Mitigation Measures	Significance of Residual Impact (with Mitigated Scenario)	Description of Monitoring Required	Close Up Actions
	Receptor	**Value/ Sensitivity**			**Specific Parameter** *(e.g. Leq 12 hrs/ Leq 1 hr, CO, NO2, PM10, TSS etc)*	**Time Zone** *(E.g. Morning / evening/ night)*	**Impact Significance (with Base Scenario)**				
General	N/A	N/A	Exclusion of the evaluation of certain environmental impacts where detailed design is not available for review at the time of writing this report	• This ES was conducted based on preliminary worksite design. • The current worksite design excludes any inputs in terms of locations of piezometers, utilities/ road diversion areas, escape shafts and site elements (e.g. workers dormitory, detention tank, site office etc.). • If this be available at later stage, the Contractor shall update the findings of this ES.	N/A	N/A	N/A	N/A	N/A	N/A	CT
Biodiversity	Mangrove, Sungei Pang Sua (Habitats)	Priority 1	Loss/reduction of habitats Habitat degradation Change in species composition	• Install hoarding to delineate worksite. • Avoid fogging by implementing preventive measures for mosquito to remove sources of stagnant water or water-bearing receptacles, e.g., providing well-maintained pitched roof, clearing discarded items daily, store materials appropriately, level up ground depression/uneven surfaces, ensure effective drainage flow. • Daily checks by Environmental Manager on site. • Execute wildlife response plan when a trapped/ injured/ dead/ dangerous animal is encountered around or within the worksite according to Section 10 of Wildlife Act • Set up Tree Protection Zones (TPZs) around trees or other plant specimens to be retained within the worksites, within which no construction works are allowed. This should be executed by certified arborists and in accordance with NParks' guidelines. • Conduct inspections of fauna prior to felling or removal of vegetation. This should be done by an ecologist who is able to identify wildlife and/or active nesting structures, such as bird nests, tree hollows and/or burrows, and bamboo clusters. • Implement soil erosion control measures as soon as vegetation has been removed and soil is exposed. • Implement soil erosion control measures. • Ensure proper storage of materials likely to leach harmful chemicals and fuel-powered equipment by storing them away from waterbodies and/or sensitive habitats. • Implement dust control measures. • Ensure noise levels are within approved limits, and to implement noise barriers where required.	Flora and Fauna	No requirement	Negligible to Moderate	**Design Phase** • Minimize clearance of vegetation • Integrate road-calcming measures • Proper trash management design to minimize human-wildlife conflicts • Implement adaptive light controls and wildlife-friendly lighting to minimise light spills **Construction Phase** • Ensure no works outside of worksite or agreed working space. This includes additional clearance of vegetation for material storage, access routes, trampling and vegetation damage, outside of worksite. This is especially so for sensitive habitats, i.e., Sungei Pang Sua, mangrove and its adjacent habitats. • Engage arborists and flora specialists to clearly mark out areas and plants with conservation value before the start of works. This would avoid clearing unnecessary working space, eliminate the need of removing specimens of value and plants of conservation significance as much as possible. • Ensure that minimum control measures as well as engineering controls are in place to prevent contamination and siltation into the sensitive habitats and waterways, i.e., Sungei Pang Sua, mangrove and its adjacent habitats (see Section 8.8.1). • Ensure any associated slope stabilisation and grading works will not impact topography of areas outside worksite and, water quality and hydrology of the waterbodies within the Study Area. • Conduct regular inspections to ensure contractor compliance to the EMMP, with oversight by LTA • Ensure that the construction working space for the proposed potential future infrastructure (footings, storage and access routes) is located at least 5 m away from the banks of Sungei Pang Sua and does not affect the existing conditions (hydrology, water quality and slope stability) of Sungei Pang Sua and mangrove. • Implement dust control measures such as dust screens and water suppression systems • Retain ground cover for as long as possible before removal. When ground cover is removed, ECM is to be in place. • Conduct close supervision during the construction of the potential future infrastructure to ensure that machineries, such as cranes, will not cause any injury towards the tree specimens in proximity during the launching of the pre-cast cross head. • Conduct regular monitoring at Sungei Pang Sua to ensure no impacts to mangrove and Sonneratia caseolaris cluster • Engage with a certified arborist if topping/pruning is needed for any tree specimens to avoid the entire tree specimen during the construction of the potential future infrastructure. • Ensure that TPZs around tree and keystone specimens to be retained around worksites are installed properly as part of the minimum control measures (refer to Section 7.6). Conduct regular arboricultural inspections to monitor the health of the retained specimens. • Ensure that there is a continuous strip of 30-m wide vegetation maintained along the Rail Corridor at all times. This is to allow faunal movement along the Rail Corridor, including terrestrial mammals such as Sunda pangolin and Eurasian wild boars. • If the continuous strip of 30-m wide vegetation is not possible, a temporary wildlife crossing could be installed. It will be opened at night after works to allow animals to cross safely, and closed in the morning before works start. • Establish a Wildlife Response Plan in consultation with NParks Animal Management Centre, to be executed during encounters with trapped, injured or dead wildlife, as well as incidents of human-wildlife conflict • Conduct regular inspections to ensure contractor compliance to the EMMP and identify potential faunal entrapments • Retain ground cover for as long as possible before removal • 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 • Ensure good housekeeping controls such as provision of wildlife-proof bins and eating areas • Conduct regular monitoring to identify possible collapse of mud lobster mounds around potential future infrastructure. • Avoid night-time works to prevent disturbances to nocturnal fauna and nocturnal-migrating species; restrict working hours to 0700h–1900h • Avoid night-time works during bird migratory season (September to February) • Where night-time works are unavoidable, review construction method statements and site lighting plan with the EMMP Specialist and Ecologist before the commencement of night works and where necessary reduce light spillage into adjacent areas • No entry of site personnel to vegetated areas outside of the agreed working space, especially Sungei Pang Sua mangrove.	Negligible to Minor	**Arboriculture** • Monitoring of the condition of trees at and around the new development, especially at the potential future infrastructure, to determine the physiological health and structural stability of trees as edge effects can lead to die back of canopies, and branch and structural failures. • Review of method statements of construction works in proximity to retained trees, if any, to determine if additional tree removal is required post-site clearance. • Recommendation of solutions such as design changes, reduction of working space, reduction of TPZ area and reassessment of trees in cases of conflict with proposed works. • Assessment of physiological health, vigour and structural stability of retained trees. Recommend additional mitigating measures if necessary. • Assessment of the condition of retained trees, if any, to ensure that there has been no deterioration or mechanical damage and to determine if additional tree removal is required. • Where a tree exhibits signs of stress, the Arborist should inspect the tree and advise on strategies to reduce further impacts and rehabilitation measures. Where monitoring indicates that drying out or edge impacts are occurring, remediation measures shall be undertaken. These measures may be temporary (such as carrying out watering when there is seven continuous days without rainfall). Long-term solutions shall be investigated and implemented. • Inspection of the integrity of TPZs. • Identification of excessive or unauthorised tree removal. **Flora** • Monthly flora inspections shall be conducted in areas adjacent to the worksite up to 15 m from the hoarding. • Identification of any unauthorized removal of flora beyond the demarcated development worksite. • Identification of direct/indirect impacts to sensitive vegetation and habitats. Such impacts include soil erosion and degradation that have resulted from construction activities, and unauthorized dumping of waste material, construction debris or oil/chemical leakage. • Assessment of the status of invasive flora species and weeds and recommendation to remove them where necessary. • Monitoring of the health of all retained and planted flora, including identification of diseases and recommendations for treatment. **Fauna** • Visual inspection of sensitive habitats in the vicinity (e.g., Sungei Pang Sua and mangrove) to determine if the construction has damaged or affected them • Presence of trapped/injured/dead fauna • Potential fauna entrapments (e.g., ECBs, TPZs, pits, drains, ponds, trenches, tanks) • Gaps in hoarding that may allow entry of ground-dwelling fauna • Improperly disposed/stored food and food packaging • Degradation of adjacent sensitive habitats (e.g., streams, forest) • Reporting and documentation of all findings and recommendations	ECO, CT, Ecologist, Flora Specialist and Arborist
	Waste Woodland, Scrubland, Stream (Habitats)	Priority 2									
	Urban Vegetation, Pang Sua Canal (Habitats)	Priority 3									
	Flora species	Priority 1, 2, 3	Mortality Impediment to seedling recruitment Impediment to seedling recruitment Competition from exotic plant species Decline in plant health and survival				Negligible to Minor		Negligible to Minor		
	Fauna Species	Priority 1, 2, 3	Loss of/reduction in habitats and food sources Injury or mortality Loss of ecological connectivity for faunal movement				Negligible to Moderate		Negligible to Minor		

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Hydrology and Surface Water Quality	On-site construction workers	Priority 2	Solid & toxic waste generation on water quality	Site clearance, earthworks and general construction activities at launch/retrieval shafts, the open cut and the C&C works (e.g. clearing and preparation, trench excavation, backfill, soil mixing, compaction, spoil handling and transport, building of permanent structures, utilities diversion including diversion of water pipes and stormwater drains along the Project, etc.) - Development of a Standard Operation Procedure (SOP) for safe handling, transfer, storage and disposal of solid and toxic waste; - Effective ECM and monitoring implemented as required in the Code of Practice on Surface Water Drainage to ensure that discharge into the stormwater drainage system does not contain TSS in concentrations greater than the prescribed limits under the Sewerage and Drainage (Surface Water Drainage) Regulations; - ECM measures include but are not limited to minimisation of formation of bare soil, coverage of all bare/erodible surfaces, slope stability, concrete cut-off drains, silt fences/traps along the perimeter cut-off drain, turbidity curtains for works adjacent to watercourses, etc.; - Implementation of CCTV including SIDS at the public drain to monitor the surface runoff discharges from the sites as per the Public Utilities Board of Singapore's (PUB) circular on Preventing Muddy Waters from the Construction Sites (October 2015); - Provision of enclosed bins and waste disposal facilities cleared up as often as necessary to prevent build-up. Housekeeping checks will be carried out once a day to ensure all litter is cleared from site; - Hazardous substances and toxic wastes should be stored on hard stand, under shelter with a kerb around the storage area; - All wastes will be disposed only in the designated waste disposal facilities and appropriately separated, i.e. by trained workers to properly sort and label the different types of waste (reusable and recyclable waste, toxic and non-toxic waste, etc.); and - Appropriate disposal of any waste listed in the Environmental Public Health (General Waste Collection) Regulations by licensed waste operator/collector.	Water Quality - parameters listed in NEA's Allowable Limits for Trade Effluent Discharge for all discharge points; parameters listed in Water Quality Criteria for Aquatic Life for Sungei Pang Sua and Pang Sua Canal.	No requirement	Minor	Not applicable	Minor	- One time monitoring for all water quality parameters at all discharge point locations, Sungei Pang Sua and Pang Sua Canal before construction works commencement. - One time monitoring for hydrological conditions of stream/drain and discharge locations of construction sites (i.e. capacity and baseflow) before construction works commencement. - Online real time monitoring for total suspended solids at the discharge point location at all the construction sites throughout the construction period. - Monthly one-time monitoring for temperature, pH, conductivity, total dissolved solids and dissolved oxygen at all the discharge point locations at the construction sites, Sungei Pang Sua and Pang Sua Canal throughout the construction period. - Monthly one-time monitoring for biochemical oxygen demand, chemical oxygen demand, ammoniacal nitrogen, total nitrogen, nitrate, total phosphorus, orthophosphate, oil & grease - total, oil & grease - hydrocarbon, total alkalinity, total organic carbon, lead, zinc mercury, enterococcus at all the discharge point locations at the construction sites, Sungei Pang Sua and Pang Sua Canal throughout the construction period. -Hydrological conditions of drainage system within construction site and at immediate vicinity should also be closely monitored during construction phase. Before draining to public drains or waterbodies, surface runoff from the construction site should be drained to the ECM treatment system to be filtered and to reduce peak runoff. The hoarding and perimeter drains should be inspected daily to ensure no surface runoff flowing out from the site untreated and no clogging which would affect the flow capacity of the drains/streams. During heavy storm event, site inspection should be carried out to ensure no flooding. Monthly audit on the site should also be carried out by EMMP consultant.	CT, EM/ECO
	Off-site resident and visitors in the vicinity of the Study Area	Priority 2					Minor	Not applicable	Minor		
	Habitats and biocenosis of Pang Sua Canal	Priority 1					Minor	Not applicable	Minor		
	Habitats and biocenosis of Sungei Pang Sua	Priority 1					Moderate	•Relocation of proposed potential future infrastructure worksite away from Sungei Pang Sua (i.e. at least 5m buffer between the edge of worksite and the stream bank). •Discharge from worksite should comply with NEA Trade Effluent Discharge Limits and monitored regularly, especially TSS parameter.	Minor		
	On-site construction workers	Priority 2	Liquid effluent generation and stormwater runoff on hydrology	- Runoff within, upstream of, and adjacent to the worksite will be effectively drained away without causing flooding in the vicinity; - Potential increase of peak-flow due to the change in the land use at the worksite can be mitigated by providing detention tanks/ponds within the Study Area. Detention tanks/ponds can capture stormwater during heavy storm events to reduce the peak runoff. - Geotechnical aspect of site's slope stability (such as Earth Retaining and Stabilising structures (ERSS) to be included in detailed design engineering for the construction stage; and - The design engineers for detailed design may need to ensure that Earth Retaining Stabilisation structures (ERSS) are proposed when the site is cleared and excavated. Concurrently the ECO must ensure that these measures are implemented in the construction phase, as cutting of slopes may result in slope instability.	Hydrology - Existing drain/stream capacity, baseflow		Minor	Not applicable	Minor		
	Off-site resident and visitors in the vicinity of the Study Area	Priority 2					Minor	Not applicable	Minor		
	Habitats and biocenosis of Pang Sua Canal	Priority 1					Minor	Not applicable	Minor		
	Habitats and biocenosis of Sungei Pang Sua	Priority 1					Moderate	•Relocation of proposed potential future infrastructure worksite away from Sungei Pang Sua (i.e. at least 5m buffer between the edge of worksite and the stream bank). •Discharge from worksite should comply with NEA Trade Effluent Discharge Limits and monitored regularly, especially TSS parameter.	Minor		
	On-site construction workers	Priority 2	Liquid effluent generation and stormwater runoff on water quality	Construction wastewater resulting from site clearance, excavation, tunnelling, etc. - A full inventory of all anticipated wastewater streams and volumes should be finalised before the onset of the construction works; - No unmanaged discharge of wastewater stream permitted; - Reduce, reuse, and recycle hierarchy principle to be applied to wastewater on-site; - Regular audits on environmental management procedures will be carried out on site; - No hazardous liquids to be sent to the detention pond/tank; - Hazardous wastewater, such as oily water, thinners, solvents, or paints should be stored on hard stand, under shelter with a kerb around the storage area. The wastewater should be removed for treatment and disposal off-site by an approved Waste Management Contractor. Hazardous liquids to be handled as Hazardous Waste; - Containment pond/kerbs will be of impervious material and be designed with sufficient capacity to hold volumes of wastewater produced on-site and potential fire-fighting wastewater. Contractor should seek for comment and approval from relevant authorities (e.g. SCDF and NEA) on the treated wastewater to be used for firefighting purpose if applicable; - ECM tanks/ponds will be designed in sufficient capacity to hold the turbid stormwater prior to treatment at the ECM facility; - Temporary storage volumes should be provided for overflow situations. Temporary storage with sufficient capacity will capture any expected additional volumes to ensure untreated wastewater is not released to watercourses unless it complies with Singapore NEA Guidelines on trade effluent discharge concentrations; - A responsible person (e.g. ECO) to be assigned to oversee the efficient operation of the containment pond/kerbs where 'Good Housekeeping' practices would be adhered to. Also, the area would be carefully managed to avoid spills, leaks, and odour issues, with the containment pond/kerbs checked at least daily to ensure proper functionality; - Daily record volume of wastewater, as well as volumes of sludge and other produced wastes; - Contractor will need to seek approval from relevant authorities (i.e. PUB & NEA) as per PUB Sewerage and Drainage (Trade Effluent) Regulations if the wastewater will be disposed to public sewer or NEA's Trade Effluent Discharge Limits to controlled watercourse if the treated trade effluent will be disposed to surface watercourses. If such discharges are not approved, the trade effluent will be stored, treated or recycled on site and finally disposed off-site; - The containment pond/kerbs, as well as wastewater generating areas on-site, to be equipped with spill clean-up kits; - Tunnel washing effluent should be discharged to containment pond/kerbs that manually collected by operator assigned private wastewater collector to be transferred to wastewater treatment plant; - Adequate drainage, cut-off drains sump pit, road kerb, piping and toe wall will be designed for channelling of construction process wastewater (e.g. concrete batching, wash water, etc.) and stormwater runoff separately through detailed design for capture and treatment in the containment pond/kerbs. Where applicable (e.g. in the vicinity of liquid storage or refuelling areas), this infrastructure will include oil-water separators to capture inadvertent spills or leaked oils or greases; - Implement a construction EMMP and ensure full preparation of associated plans and procedures including the following: * EMMP to include SOPs, an Emergency Response Plan (ERP), an inventory of wastewater streams, training of staff as well as an inspection, maintenance and audit schedule; and * Full development of EMMP Wastewater Management Procedures to include dedicated management and monitoring procedures that covers all eventualities related to the proper operation of the containment pond/kerbs, or any other wastewater discharge location/equipment. - Regular and dedicated procedures for the inspection and maintenance of wastewater (i.e. trade effluent) collection, storage, and treatment infrastructure, such as pipes, oil water separators, silt screens, etc.; - Regular and dedicated procedures for the management of stormwater collection, settling, testing and eventual discharge of 'clean' water to watercourses. This should also include associated measures required to prevent high sediment concentration stormwater drainage to watercourses; - ECM measures include but are not limited to minimisation of formation of bare soil, coverage of all bare/erodible surfaces, concrete cut-off drains, silt fences/traps along the perimeter cut-off drain, turbidity curtains for works adjacent to watercourses (canals, drains, streams), etc.;	Water Quality - parameters listed in NEA's Allowable Limits for Trade Effluent Discharge for all discharge points; parameters listed in Water Quality Criteria for Aquatic Life for Sungei Pang Sua and Pang Sua Canal.		Minor	Not applicable	Minor		
	Off-site resident and visitors in the vicinity of the Study Area	Priority 2					Minor	Not applicable	Minor		

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	Habitats and biocenosis of Pang Sua Canal	Priority 1		- Adequate drainage and piping for channelling of stormwater run-off to be assured through detailed design for capture and treatment before discharge into watercourses; - Sizing of sediment/detention pond and its associate structures will strictly comply with the criteria required in ECM, i.e. design to cater for at least 5-year return period storm event; - Regular and dedicated procedures for the inspection and maintenance of stormwater collection, storage, and treatment infrastructure, such as pipes, oil water separation, silt screens, etc.; and - Regular and dedicated procedures for the management of stormwater collection, settling, testing and eventual discharge of 'clean' water to surface waters. Storage and disposal of domestic liquid wastes and construction solid wastes - Provision of portable toilets and on-site septic tank; - Regular cleaning of the portable toilets and clearing of sanitary waste; - Appropriate location of toilet facilities away from any nearby watercourses; - Inspections and audits to ascertain the hygienic conditions onsite; - The toilet facilities will be placed at least 30 m away from any nearby watercourse; - Training of workers on the best practices to contribute in environmental protection; and - Appropriate disposal of any waste listed in the Environmental Public Health (General Waste Collection) Regulations by licensed waste operator/collector; - Surface Water Drainage, to be endorsed by a QECP and submitted to PUB; - Implementation of the ECM plan before the start of any construction work; - Effective ECM and monitoring implemented as recommended in the Code of Practice on Surface Water Drainage to ensure that discharge into stormwater drainage system does not contain TSS in concentrations greater than the prescribed limits under the Sewerage and Drainage (Surface Water Drainage) Regulations; - ECM measures include but are not limited to minimisation of formation of bare soil, coverage of all bare/erodible surfaces, concrete cut-off drains, silt fences/traps along the perimeter cut-off drain, turbidity curtains for works adjacent to watercourses (i.e. canals, drains, streams), etc. - Implementation of CCTV including a SIDS at the public drain to monitor the surface runoff discharges from the sites as per the PUB circular on Preventing Muddy Waters from the Construction Sites (October 2015); - Runoff within, upstream of, and adjacent to the worksite will be effectively drained away without causing flooding in the vicinity; - Manholes should always be adequately covered and temporarily sealed; - Protection of stockpiles with erosion blanket coverage and proper scheduling of the demolition and earthworks to reduce the quantity of stockpiles to be stored onsite; - Coverage of temporary/open storage of excavated materials; - All vehicles should run via wheel washing process before leaving the site to ensure no earth, mud, debris, etc., is deposited on roads; and the wastewater hence generated should be stored and removed for treatment and disposal off-site by an approved Waste Management Contractor; and - Appropriate permits for discharge to be obtained from relevant authority prior to discharge. No trade effluent other than that of a nature or type approved by NEA Director-General will be discharged into any watercourse or land.			Minor	Not applicable	Minor		
	Habitats and biocenosis of Sungei Pang Sua	Priority 1					Moderate	•Relocation of proposed potential future infrastructure worksite away from Sungei Pang Sua (i.e. at least 5m buffer between the edge of worksite and the stream bank). •Discharge from worksite should comply with NEA Trade Effluent Discharge Limits and monitored regularly, especially TSS parameter.	Minor		
	On-site construction workers	Priority 2	Improper management of chemical substances on water quality	<u>Use, storage and disposal of chemical substances refuelling activities</u> - Development of SOP for safe handling, transfer and storage of toxic waste; housekeeping checks once a day to ensure all toxic waste is cleared from site; - Appropriate tests to ascertain the presence/absence of contamination of the excavated earth and sand; - Appropriate fully sheltered storage area with storage volume to be 110% of the largest volume of chemical substances to be stored (kerb up and enclosed on at least 3 sides, covered and with adequate ventilation); - Appropriate construction material for toxic waste storage containers with leak detection tests conducted periodically; - Provision of secondary containment for all toxic waste stored in bulk as per the requirements in the COPPC/SS593; - Preparation of an emergency response plan, training of the emergency response team (ERT) to be competent in the response mechanism and provision of response kits for any spillages; - Consignment notification/tracking system and transport emergency response plan for transport of toxic waste; and - Appropriate disposal of toxic waste as per required in the Environmental Public Health (Toxic Industrial Waste) Regulations by licensed waste operator/collector.	Water Quality - parameters listed in NEA's Allowable Limits for Trade Effluent Discharge for all discharge points; parameters listed in Water Quality Criteria for Aquatic Life for Sungei Pang Sua and Pang Sua Canal.		Minor	Not applicable	Minor		
	Off-site resident and visitors in the vicinity of the Study Area	Priority 2					Minor	Not applicable	Minor		
	Habitats and biocenosis of Pang Sua Canal	Priority 1					Minor	Not applicable	Minor		
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Soil and Groundwater & Waste	Urban Vegetation	Priority 3	• Site Clearance, levelling and land grading works • Earthworks • Construction of station boxes and superstructures • Construction of launch/ retrieval shafts, tunneling works • Soil dewatering	• Install piezometers to monitor the changes in groundwater level in compliance with Building Control Regulations 2003 as part of its instrumentation and monitoring plan to be endorsed by the Qualified Professional (QP). • Proper Earth Retaining Stabilising Structures (ERSS) should be selected and designed to limit groundwater settlement. • Plan soil dewatering in phases to avoid as much as practicably possible groundwater drawdown	Groundwater level	No requirement	Minor	Not applicable	Minor	Groundwater level continuous monitoring within the development boundary throughout the lifetime of the construction phase as per the instrumentation and monitoring plan developed by the QP.	CT, EM/ECO
	Scrubland	Priority 3					Minor	Not applicable	Minor		
	Mangrove Forest	Priority 2					Minor	Not applicable	Minor		
	Waste Woodland	Priority 3					Minor	Not applicable	Minor		
	Pang Sua Canal	Priority 3					Negligible	Not applicable	Negligible		
	Sungei Pang Sua	Priority 2					Minor	Not applicable	Minor		
	Future on-site construction workers and permanent off-site residents downgradient of study area	Priority 1					Negligible	Not applicable	Negligible		
	Off-site visitors	Priority 1					Negligible	Not applicable	Negligible		
	Urban Vegetation	Priority 3	• Site Clearance, levelling and land grading works • Construction of station boxes and superstructures • Excavation of cut and cover areas • Stockpiling of excavated soil from cut and cover areas and tunnel boring activities	• Identify all types of toxic chemical waste and implement comprehensive waste management system at the site in order to ensure proper disposal and prevent pollution to the environment. This contractor should conduct a construction risk assessment and prepare a comprehensive construction health, safety and environment plan. If health impacts to workers are foreseen due to the handling of such waste, necessary precautionary measures as per the safety data sheets (SDS) including personal protective equipment should be implemented on site. • Inspect all equipment prior to entering the site for fuel/hydraulic lines, leaking tanks, and other potential faulty parts that could potentially cause contamination to soil or groundwater. • Dispose all construction debris (under category C&D) at the gazetted Government dumping grounds or at such other sites or locations as directed by NEA.	Toxic Chemical Waste Generation and Improper Handling of Hazardous Chemicals/ Substances	No requirement	Minor	Not applicable	Minor	At locations within the project site where toxic chemical waste are stored - Records on chemical waste from the waste generator should be properly kept and records produced when requested.	CT, EM/ECO
	Scrubland	Priority 3					Minor	Not applicable	Minor	At locations within the project site where hazardous chemicals/ substances are used/ stored - Inspection of hazardous chemicals/ substances storage condition weekly during construction phase. Environmental audits to be conducted	

Environmental Aspect	Description of Receptor		Potential Activities Causing Impact	Minimum Controls *(Good practices in addition to LTA's General Safety, Health and Environmental specifications)*	Significance of Potential Impact (assumes implementation of minimum controls)			Mitigation Measures	Significance of Residual Impact (with Mitigated Scenario)	Description of Monitoring Required	Close Up Actions
	Receptor	**Value/ Sensitivity**			**Specific Parameter** *(e.g. Leq 12 hrs/ Leq 1 hr, CO, NO2, PM10, TSS etc)*	**Time Zone** *(E.g. Morning / evening/ night)*	**Impact Significance (with Base Scenario)**				
	Mangrove Forest	Priority 2	•Improper management and disposal of excavated soils and/or groundwater during excavations and tunnel boring activities •Improper handling, transfer and storage of toxic chemical waste •Improper handling, transfer, refuelling and storage of chemicals (e.g. diesel, bentonite, lubricants, oils, grease, paints, solvents, waste treatment chemicals, etc.) generated during construction activities.	• Store generated toxic chemical waste under shelter within concrete bund walls or in storage containers with good ventilation. Spill trays shall be provided for all waste containers Spill trays shall be regularly maintained to prevent rain from washing out the pollutive substances. • Note that the Earth Control Measures (ECM) is for the containment and treatment of silty discharge due to the impact of rainwater. ECM is not meant for the treatment of wastewater due to construction activities (such as pipe-jacking and bore-piling works) which shall be treated to comply with the requirements under prevailing legislation. • Contractor will need to seek approval from relevant authorities (e.g., PUB & NEA) as per PUB Sewerage and Drainage (Trade Effluent) Regulations if the wastewater will be disposed to public sewer or NEA's Trade Effluent Discharge Limits to controlled watercourse if the treated trade effluent will be disposed to surface watercourses. If such discharges are not approved, the trade effluent will be stored, treated, or recycled on site and finally disposed of. • Remove any hazardous substance or chemical if there are safer alternatives. • Ensure all hazardous substance and chemical containers are labelled its movement is recorded and returned to the designated storage areas when not in use. • Assess the SDS of all the hazardous substances and chemicals prior to its entry to site for its suitability in terms of SHE hazards and consider safer alternatives. • Ensure no trade effluent other than that of a nature or type approved by NEA Director-General shall be discharged into any watercourse or land. • Ensure all activities involving repair, servicing, engine overhaul works, etc. shall be carried out on an area which is appropriately contained (e.g. concreted area and with proper containment/sumps) and all wastes are channelled for appropriate treatment or disposal to meet the regulations. • Store chemicals stored under shelter within concrete bund walls or in storage containers with good ventilation. • Spill trays shall be provided for all drums, plants and machinery and potential pollutive substances used on site. • Spill trays shall be regularly maintained to prevent rain from washing out the pollutive substances. • Provide emergency spill kits on site in the event of any chemical spillages. The emergency response team shall also be competent in the use of these spill kits. • Handling and disposal of excavated soils following the procedure in Annex 5. This flow chart explains how to handle excavated soils, and identify potential areas of contamination as well as potential of contamination (POC) in excavated soils. If the POC soils are tested for exceedance in Dutch intervention values (DIV), the soils can be disposed of to toxic waste collectors or undergo soil treatment. If contaminated soils were sent for treatment to an acceptable standard such as the DIV, the treated soils can be disposed in the staging ground or through a general waste collector depending on the level of the contaminants during the staging ground testing. • Discharge of extracted groundwater shall be to an area approved for such disposal by the NEA and PUB following the process set out in Annex 6. Preliminary screening of the results from the three boreholes within the Project area showed that there were no exceedances of the DIV recorded for soils or groundwater samples. However, it is recommended that the construction contractor to be vigilant of site conditions and extracted groundwater to be tested at regular intervals. If a contamination beyond DIV is detected, the Contractor shall assess the potential inhalation and dermal impacts of the chemical identified and on the health and safety of exposed to groundwater before commencement of construction activities. Such contaminated wastewater may need to be disposed of to a licensed toxic waste collector.			Minor	Not applicable	Minor	quarterly during construction phase. Environmental audit monthly during construction phase	
	Waste Woodland	Priority 3					Minor	Not applicable	Minor		
	Pang Sua Canal	Priority 3					Minor	Not applicable	Minor		
	Sungei Pang Sua	Priority 2					Minor	Not applicable	Minor		
	Future on-site construction workers and permanent off-site residents downgradient of study area	Priority 1					Minor	Not applicable	Minor		
	Off-site visitors	Priority 1					Minor	Not applicable	Minor		
Air Quality	**All worksites** Rail corridor	Priority 1, 2	1. Dust emissions generated by the demolition of existing structures 2. Dust emissions generated by earthworks processes at worksites 3.. Dust emissions generated by the construction of new structures 4. Fugitive dust emissions from dumper trucks transporting spoil 5. Fugitive dust emissions from demolition activities 6. Gaseous emission from vehicle exhaust	The following control measures should be observed during the construction stage: - The construction footprint shall be hoarded on all sides; and - Road construction or expansion shall be completed first and paved where possible before the construction of other development commences.	Fugitive dust emissions, Particulate Matter (PM_{10} and $PM_{2.5}$) and Gaseous Emissions (NO_2 and CO)	6am to 10pm (Monday to Saturday)	Moderate to Major	GENERAL MITIGATION MEASURES TO BE IMPLEMENTED THROUGH OUT CONSTRUCTION PERIOD: 1. Develop and implement a stakeholder communications plan that includes community engagement before work commences on site. 2. Display the name and contact details of person(s) accountable for air quality and dust issues on the site boundary. This may be the environment manager/engineer or the site manager. 3. Develop and implement an Air Pollution Control Plan (APCP). 4. Record all dust and air quality complaints, identify cause(s), take appropriate measures to reduce emissions in a timely manner, and record the measures taken. 5. Make the complaints log available to the local authority when asked. 6. Record any exceptional incidents that cause dust and/or air emissions, either on-site or off- site, and the action taken to resolve the situation in the log book. 7. Hold liaison meetings with other high risk construction sites within 500m of the site boundary, to ensure plans are coordinated and dust and particulate matter emissions are minimised. 8. Undertake regular (daily frequency recommended) on-site and off-site inspections and record results. The log should be made available to the NEA or other Government Agencies if required. Inspections should include regular dust soiling checks of surfaces such as street furniture, cars and window sills within 100m of site boundary. Cleaning should be provided if necessary. 9. Carry out regular site inspections to monitor and record compliance with the Air Pollution Control Plan. 10. Increase the frequency of site inspections during prolonged dry or windy conditions. 11. Plan site layout so that machinery and dust causing activities are located away from receptors, where possible. 12. Erect hoarding around dusty activities and at the site boundary wherever possible. Boundary screens should be at least as high as any stockpiles or dust emission sources on site. 13. Fully enclose specific activities where there is a known high potential for dust production and the site will be active for an extensive period of time. 14. Keep site fencing, barriers, and scaffolding clean by cleaning regularly using wet methods (dry methods may give rise to fugitive dust). 15. Remove materials that have the potential to produce dust from site as soon as possible, unless being re-used on site. If they are being re-used on-site, stockpiled material should be covered, seeded, fenced or enclosed to prevent fugitive dust formation. 16. Ensure all vehicles and engine powered equipment comply with the legislative requirements of Singapore. 17. Ensure all vehicles and equipment switch off their engines when stationary – i.e. no idling vehicles or engines. Clear signs shall be erected at site entrance to inform all visitors. 18. Where practicable, avoid the use of diesel- or petrol-powered generators and use mains electricity or battery powered equipment. 19. Impose and signpost a maximum-speed-limit of 25 km/hr on paved or surfaced haul roads and 15 km/hr on unpaved haul roads and work areas. 20. Produce a Construction Logistics Plan to manage the sustainable delivery of goods and materials. 21. Only use cutting, grinding or sawing equipment fitted with, or in conjunction with, suitable dust suppression techniques such as water sprays or local extraction e.g. local exhaust ventilation system. 22. Ensure an adequate water supply on the site for effective dust/particulate matter suppression/ mitigation, using non-potable water where possible and appropriate. 23. Use enclosed chutes and conveyors and covered skips wherever possible. 24. Minimise drop heights from conveyors, loading shovels, hoppers, and other loading or handling equipment and use fine water sprays on such equipment wherever appropriate. 25. A stringent "Clean as you go" Policy should be implemented on site to ensure no loose dry material is left exposed when not in use. Equipment should be readily available on site to clean any dry spillages, and cleaning should be conducted as soon as reasonably practicable after the event using wet cleaning methods. MITIGATION MEASURES FOR DEMOLITION: 1. Soft strip inside buildings before demolition (retaining walls and windows in the rest of the building where possible, to provide a screen against dust). 2. Ensure effective water suppression is used during demolition operations. Hand held sprays are more effective than hoses attached to equipment as the water can be directed to where it is needed. In addition high volume water suppression systems, manually controlled, can produce fine water droplets that effectively bring the dust particles to the ground. 3. Avoid explosive blasting, using appropriate manual or mechanical alternatives. 4. Bag and remove any biological debris or damp down such material before demolition. MITIGATION MEASURES FOR EARTHWORKS: 1. Re-vegetate earthworks and exposed areas/soil stockpiles to stabilise surfaces as soon as practicable. 2. Use Hessian, mulches or soil tackifiers where it is not possible to re-vegetate or cover with topsoil, as soon as practicable. 3. Only remove the cover in small areas during work and not all at once. MITIGATION MEASURES FOR CONSTRUCTION: 1. Avoid scabbling (roughening of concrete surfaces) if possible. 2. Sand and aggregates will be delivered in a dampened stage and will be re-wetted before being dumped into storage bunker.	Minor	- 1 week monitoring of PM_{10} and $PM_{2.5}$ before commencement of construction works for re-establishment of baseline at the following locations: • Rail corridor near Intermediate Station worksite • Sungei Pang Sua near potential future infrastructure worksite • HDB Blk Senja Road near Docking Shaft worksite - Continuous monitoring of dust deposition during construction phase averaged over 4-week period at the following locations: • Rail corridor near Intermediate Station worksite • Sungei Pang Sua near potential future infrastructure worksite - Continuous monitoring of PM_{10} and $PM_{2.5}$ during site clearance and earthworks phase at the following location: • HDB Blk Senja Road near Docking Shaft worksite	CT, EM/ECO
	All worksites Matsushita House Trendspace Sungei Kadut Fire Post Sri Arasakesari Sivan Temple Grandwork Building BHL Factories Mandai Connection Eurokars Centre Gali Batu Depot 566 Woodlands Road Yew Tee Primary School MSW Nursing Home (Yew Tee) The Windermere The Quintet Sunray Building Grandwork Building LUXX Newhouse Design Centre M-Space Star Building Tiong Aik Building Tac Centre Avenue Engineering Building Mandai Food Link 300, 566 Woodlands Road West Life Mandai Dormitory SWI Warehouse Complex Foodfab @ Mandai (U/C) Mandai Industrial Building Innovation Place Temporary Site Office, 500A Woodlands Road 5 Stagmont Ring Star International 21, 23, 23A, 23F, 23H, 25, 25A, 25J, 27, 31, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 42A, 43, 44, 46, 48, 49, 50, 50A, 51, 52, 52A, 54, 56, 58 Sungei Kadut Street 1 4, 6, 8, 15, 18, 19A, 23, 25, 29, 31, 38 Sungei Kadut Street 2 1, 2, 3, 4, 6, 10, 14, 15, 16, 17, 18, 20 Sungei Kadut Street 3	Priority 1	1. Dust emissions generated by the demolition of existing structures 2. Fugitive dust emissions from demolition activities				Major		Minor		

Environmental Aspect	Description of Receptor		Potential Activities Causing Impact	Minimum Controls *(Good practices in addition to LTA's General Safety, Health and Environmental specifications)*	Significance of Potential Impact (assumes implementation of minimum controls)			Mitigation Measures	Significance of Residual Impact (with Mitigated Scenario)	Description of Monitoring Required	Close Up Actions
	Receptor	**Value/ Sensitivity**			**Specific Parameter** *(e.g. Leq 12 hrs/ Leq 1 hr, CO, NO2, PM10, TSS etc)*	**Time Zone** *(E.g. Morning / evening/ night)*	**Impact Significance (with Base Scenario)**				
	1, 1A, 3, 4, 5, 6, 7, 8, 9, 10, 11, 11A, 13, 15 Sungei Kadut Street 4 1, 3, 5, 6, 8, 10, 12, 14, 15, 16, 16A, 17, 18, 20, 20A Sungei Kadut Way 6, 8, 14, 16, 18, 19, 20, 21, 22, 31, 33, 39, 45, 46, 47, 48, 48A, 49, 50 Sungei Kadut Avenue 65, 69, 71, 81 Sungei Kadut Drive 2, 6 Mandai Link 6A, 8, 80, 82, 84, 86, 88, 90, 92 Mandai Estate Yew Mei Green Regent Grove 641 Choa Chu Kang Street 64 656, 657, 661, 661A, 662, 663, 664, 668A, 685, 685B, 685C, 686, 686A, 686B, 686C, 686D, 688C, 689, 690, 690A, 690B, 690C, 690D, 691, 691A, 691B, 692, 692A, 692B Choa Chu Kang Crescent 687, 687A, 687B, 687C, 687D, 688, 688A, 688B, 689A, 689B Choa Chu Kang Drive 359 Woodlands Road							3. Drop heights at transfer points will be minimised to lessen dust generation 4. Special covered area will be provided for loading and unloading process 5. Water sprays or sprinklers will be employed at conveyor transfer points 6. 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, in which case ensure that appropriate additional control measures are in place. 7. Ensure bulk cement and other fine powder materials are delivered in enclosed tankers and stored in silos with suitable emission control systems to prevent escape of material and overfilling during delivery. 8. For smaller supplies of fine power materials ensure bags are sealed after use and stored appropriately to prevent dust. 9. Vent will be provided with efficient fixed filter bags to comply with the dust emissions criteria. 10. Silos will not be filled up with cement more than 90% of its loading capacity, to avoid overfilling, 11. Silos will be equipped with overfill protection: audible high level sensor alarm and automatic shut-down switch, which could be activated to close when a problem is detected. MITIGATION MEASURES FOR TRACKOUT: 1. Use water-assisted dust sweeper(s) on the access and affected local roads, to remove, as necessary, any material tracked out of the site. This may require the sweeper being continuously in use. 2. Avoid dry sweeping of large areas. 3. Ensure vehicles entering and leaving sites are covered to prevent escape of materials during transport. 4. Inspect on-site haul routes for integrity and instigate necessary repairs to the surface as soon as reasonably practicable. 5. Record all inspections of haul routes and any subsequent action in a site log book. 6. Install hard surfaced haul routes, which are regularly damped down with fixed or mobile sprinkler systems, or mobile water bowsers and regularly cleaned. 7. Implement a wheel washing system (with rumble grids to dislodge accumulated dust and mud prior to leaving the site where reasonably practicable). 8. 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. 9. Site access gates to be located at least 10 m from receptors where possible.			
	Docking Shaft Worksite West View Primary School Bukit Panjang Polyclinic (50 Woodlands Road) Gali Batu Depot Jurong Pioneer Junior College Teck Whye Secondary School West Spring Secondary School Teck Whye Primary School Pacific Healthcare Nursing Home II @ Bukit Panjang 5A Woodlands Road (The Tennery) Bukit Panjang Telephone Exchange (40 Woodlands Road) Senja Soka Centre Bukit Panjang Polyclinic 301A Woodlands Road (Temporary Site Office) Temporary Site Office (250A Woodlands Road) Temporary Bus Terminal (21A Woodlands Road) Junction 10 Bukit Panjang MRT Station 603A, 605, 606, 607, 608, 610, 612, 614, 616, 616A, 618, 622, 625, 625A, 625B, 626, 627, 628, 629, 629A, 629B, 630, 631, 632, 632A, 632B, 633, 633A, 633B, 633C, 633D, 634, 634A, 634B, 634C, 635, 635A, 635B, 635C, 635D, 636, 636A, 636B, 636C, 636D Senja Road 638 Senja Close 609, 611, 611A, 613, 613A, 613B, 615A, 620 Bukit Panjang Ring Road 36, 161C, 162, 163, 164 Jalan Teck Whye 38 Teck Whye Crescent 1, 2, 3, 4, 5, 7, 9 Verde Crescent (Villa Verde) 87-129 (even number), 130-142 (odd number) Verde View (Villa Verde) 180 Woodlands Road	Priority 1	1. Dust emissions generated by earthworks processes at worksites 2. Fugitive dust emissions from dumper trucks transporting spoil 3. Gaseous emission from vehicle exhaust 4. Gaseous emissions from off road diesel engines on-site				Moderate to Major		Minor			
	Intermediate Station Worksite The Quintet The Windermere 5 Stagmont Ring Gali Batu Depot Eurokars Centre Yew Tee Primary School MWS Nursing Home (Yew Tee) Regent Grove Regent Secondary School Yew Mei Green Sri Arasakesari Sivan Temple Hua Kok Industrial Building 1, 3, 5, 7 Verde View	Priority 1 to Priority 2	1. Dust emissions generated by earthworks processes at worksites 3.. Dust emissions generated by the construction of new structures 4. Fugitive dust emissions from dumper trucks transporting spoil 5. Gaseous emission from vehicle exhaust 6. Gaseous emissions from off road diesel engines on-site				Moderate to Major		Minor			

Environmental Aspect	Description of Receptor		Potential Activities Causing Impact	Minimum Controls *(Good practices in addition to LTA's General Safety, Health and Environmental specifications)*	Significance of Potential Impact (assumes implementation of minimum controls)			Mitigation Measures	Significance of Residual Impact (with Mitigated Scenario)	Description of Monitoring Required	Close Up Actions
	Receptor	**Value/ Sensitivity**			**Specific Parameter** *(e.g. Leq 12 hrs/ Leq 1 hr, CO, NO2, PM10, TSS etc)*	**Time Zone** *(E.g. Morning / evening/ night)*	**Impact Significance (with Base Scenario)**				
	656, 657, 658, 659, 659A, 660, 660A, 661, 661A, 662, 663, 664, 665, 666, 667, 668, 668A, 669, 669A, 673, 673B, 685C, 686, 687C, 687D, 688C, 689, 690, 690A, 690B, 690C, 690D, 691, 691A, 691B, 692, 692A, 692B Choa Chu Kang Crescent										
	Temporary Site Office, 500A Woodlands Road										
	300 Woodlands Road										
	6, 8, 12, 14, 16, 18, 19, 20, 21, 22, 26, 28, 30 Sungei Kadut Avenue										
	Temporary Site Office (301A Woodlands Road)										
	359, 375, 385 Woodlands Road										
	632A, 633, 634, 635, 636, 637 Choa Chu Kang North 6										
	638, 639, 640, 641, 642, 643, 656, 657, 658, 660, 664, 665, 666, 667, 668, 688C, 690, 690A, 690B, 690C, 692B Choa Chu Kang Street 64										
	687, 687A, 687B, 687C, 687D, 688, 688A, 688B, 689A, 689B, 690, 691 Choa Chu Kang Drive										
	500A Woodlands Road (Temporary Site Office)										
	769, 770 Choa Chu Kang Street 54										
	1-10, 11-25 (even number) Verde View (Villa Verde)										
	28 Sungei Kadut Way										
	Interchange Station Worksite	Priority 1 to Priority 2	1. Dust emissions generated by earthworks processes at worksites 3.. Dust emissions generated by the construction of new structures 4. Fugitive dust emissions from dumper trucks transporting spoil 5. Gaseous emission from vehicle exhaust 6. Gaseous emissions from off road diesel engines on-site				Moderate to Major		Minor		
	Grandwork Building										
	Sungei Kadut Fire Post										
	Star Building										
	Tiong Aik Building										
	Trendspace										
	Sunray Building										
	LUXX Newhouse Design Centre										
	Star International (U/C)										
	TAC Centre										
	Avenue Engineering Building										
	Matsushita House										
	Star International										
	AOS Industrial Building										
	21, 23, 23A, 23F, 23H, 25, 25A, 25D, 25E, 25J, 27, 31, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 42A, 43, 44, 46, 48, 49, 50, 50A, 51, 52, 52A, 54, 56, 58 Sungei Kadut Street 1										
	4, 5, 6, 8, 10, 15, 18, 19A, 23, 27, 29, 31, 37, 38, 39 Sungei Kadut Street 2										
	1, 2, 3, 4, 6, 10, 14, 15, 16, 17, 18, 20, 22 Sungei Kadut Street 3										
	1, 1A, 3, 4, 5, 6, 7, 8, 9, 10, 11, 11A, 12, 13, 15, 17 Sungei Kadut Street 4										
	1, 3, 5, 6, 8, 10, 12, 14, 15, 16, 16A, 17, 18 Sungei Kadut Way										
	31, 33, 39, 45, 46, 47, 48, 48A, 49, 50 Sungei Kadut Avenue										
	4, 7, 8, 9 Sungei Kadut Crescent										
	63, 65, 74 Sungei Kadut Loop										
	58, 60, 62, 65, 69, 71, 81 Sungei Kadut Drive										
	Retrieval Shaft Worksite	Priority 1	1. Dust emissions generated by earthworks processes at worksites 2. Fugitive dust emissions from dumper trucks transporting spoil 3. Gaseous emission from vehicle exhaust 4. Gaseous emissions from off road diesel engines on-site				Moderate to Major		Minor		
	Gali Batu Depot										
	Temporary Site Office, 500A Woodlands Road										
	BHL Factories										
	Eurokars Centre										
	M-Space										
	566 Woodlands Road										
	Sri Arasakesari Sivan Temple										
	Mandai Connection										
	Innovation Place										
	Mandai Industrial Building										
	Westlite Mandai Dormitory										
	Mandai Foodlink										
	Foodfab@Mandai										
	Eldix										
	6A, 8, 10, 12, 16, 80, 82, 84, 86, 88, 90, 92, 94, 96 Mandai Estate										
	Multi-wide Industrial Building										
	SWI Warehouse Complex										
	Hua Kok Industrial Building										

Environmental Aspect	Description of Receptor		Potential Activities Causing Impact	Minimum Controls *(Good practices in addition to LTA's General Safety, Health and Environmental specifications)*	Significance of Potential Impact (assumes implementation of minimum controls)			Mitigation Measures	Significance of Residual Impact (with Mitigated Scenario)	Description of Monitoring Required	Close Up Actions
	Receptor	**Value/ Sensitivity**			**Specific Parameter** *(e.g. Leq 12 hrs/ Leq 1 hr, CO, NO2, PM10, TSS etc)*	**Time Zone** *(E.g. Morning / evening/ night)*	**Impact Significance (with Base Scenario)**				
	1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 26, 31, 33 Sungei Kadut Avenue 13, 15, 17, 30, 32 Sungei Kadut Way 21, 23, 34, 36, 38, 40 Sungei Kadut Street 1 2, 6 Mandai Link										
	Potential Future Infrastructure Worksite BHL Factories Sri Arasakesari Sivan Temple Trendspace 7 Mandai Link 566 Woodlands Road Mandai Connection M-Space Westlife Mandai Dormitory 88, 90, 92, 94, 96 Mandai Estate 500A, 566 Woodlands Road 687 Choa Chu Kang Drive Tiong Aik Building Star Building Eurokars Centre Mandai Foodlink Foodfab@Mandai ELDIX 6A, 8, 10, 12, 16, 80, 82, 84, 86, 88, 90, 92, 94, 96 Mandai Estate SWI Warehouse Complex Mandai Industrial Building Gali Batu Depot 686, 689 Choa Chu Kang Crescent 556 Woodlands Road 3 Mandai Link Innovation Place Matsushita House Westlite Mandai Dormitory Foodfab @ Mandai Multi-Wide Industrial Building 695 Mandai Road Shell 1, 3, 5, 6, 8, 10, 12, 14, 15, 16, 16A, 17, 18, 19, 20, 20A, 23B, 23C, 23E, 34 Sungei Kadut Way 6, 8, 14, 16, 18, 19, 20, 21, 22, 31, 33, 39, 45, 46, 47, 48, 48A, 49, 50 Sungei Kadut Avenue 21, 23, 23A, 23C, 23E, 23F, 23H, 25, 25A, 25J, 27, 31, 33, 34, 36, 38, 40, 42, 42A, 44, 46 Sungei Kadut Street 1 4, 5, 6, 8, 15, 18, 19A, 38 Sungei Kadut Street 2 2, 6 Mandai Link 81 Sungei Kadut Drive 65, 74 Sungei Kadut Loop 663, 664, 667, 685, 685B, 685C, 686A, 686B, 686C, 688C, 690, 690A, 690B, 690C, 690D, 691B Choa Chu Kang Crescent 687A, 687B, 687C, 687D, 688, 688A, 688B, 689A, 689B Choa Chu Kang Drive	Priority 1	1. Dust emissions generated by earthworks processes at worksites 3.. Dust emissions generated by the construction of new structures 4. Fugitive dust emissions from dumper trucks transporting spoil 5. Gaseous emission from vehicle exhaust 6. Gaseous emissions from off road diesel engines on-site				Moderate to Major		Minor		
Airborne Noise	Rail Corridor Sungei Pang Sua Pang Sua Canal 15 Sungei Kadut Street 2 15 Sungei Kadut Street 2, Worker's Dormitory 16A Sungei Kadut Way 18 Sungei Kadut Way, Liannex Corporation 20 Sungei Kadut Way, Liannex Corporation 21 Sungei Kadut Street 1 35 Sungei Kadut St 1 40 The Quintet 42 The Quintet 566 Woodlands Road Admira Pte Ltd BHL Factories 2A BHL Factories 2B Brighton Furniture Display Centre, 46 Sungei Kadut Ave Casco Adhesives (asia) Pte Castilla Singapore Chong Sun Wood Products Pte Ltd, Pan Star Wood Marketing Pte Ltd Chop Kim Huat Club July (Stagmont Ring) - Commercial, F&B Da Di Glass Durotech Industries (S) Pte Ltd, 15 Sungei Kadut Way EDL Pte Ltd, 43 Sungei Kadut St 1	Priority 1 & 2 Priority 1, 2 & 3	Noise generated by the use of PME, (such as excavators, generators, pumps, cranes, etc.,) for various construction activities. Noise from trucks transporting spoil / equipment.	• All machinery and equipment used shall be labelled with a weather-proof sticker clearly indicating its noise emission level (at source) under normal operating conditions; • All machinery and equipment used on site should be sound reduced, as far as is practicable; • Stationary noisy equipment should be housed in enclosures on site where necessary; • Machine operators and workers must be trained and briefed on quieter work techniques; • Ad-hoc noise monitoring must be carried out when work progresses during noisy operations; • Additional noise measures should be implemented when noise monitoring indicates the noise levels are approaching or exceeding permissible noise levels; • Avoid shouting, whistling, sirens, or similar loud intermittent noises especially near ecologically sensitive receptors which can be impacted by them; • Minimize noise disturbances by restricting construction activites that are not safety critical to 8am – 6pm; • Concrete walls along boundary of premises selected for building demolition (if any) shall not be removed until demolition is complete; • Apply noise reduction netting of a rating of STC15 or higher on all façades of buildings selected for demolition; and • Limit demolition works to a maximum of ten (10) construction gangs at any point in time.	Scenario 1 - Advanced Works - Weekday $L_{eq(5 mins)}$	Daytime Period	Moderate to Major Negligible to Moderate	Avoid - High noise Powered Mechanical Equipment (PME) - the equipment inventory list shall be analyzed to check the equipment causing high noise levels. The use of equipment with lower noise level shall be prioritized, as this si the most effective way to mitigate the noise level at source. Minimize - Erect Noise Barriers: Proposed erection of Noise Barriers of minimum STC 20 at the following areas for the three (3) assessment scenarios: <u>Scenario 1: Advanced Works:</u> - 3m and 12m high noise barriers at the construction boundary of demolition worksites fronting noise sensitive receptors along Rail Corridor, Sungei Pangsua, and the Pangsua Canal. <u>Scenario 2: Main Civil Works:</u> - 3m high noise barriers at the construction boudary of intermediate station, pedestrian overhead bridge worksites fronting noise sensitive receptors along Rail Corridor, Sungei Pangsua, and the Pangsua Canal; - 12m high noise barriers at the construction boundary of the pedestrian overhead bridge worksites fronting noise sensitive human receptors at CCK HDB estates, along noise sensitive human receptors with direct line of sight into the construction worksites; - Source noise control for equipment such as generators, lorry, trucks, excavators, cranes etc. with acoustic dampeners, sheds, enclosures. <u>Scenario 3: Potential Future Infrastructure, Reception Track Terminal, Elevated Vehicular Bridge Construction:</u> - 3m high noise barriers at the construction boudary of intermediate station, pedestrian overhead bridge worksites fronting noise sensitive receptors along Rail Corridor, Sungei Pangsua, and the Pangsua Canal; - 12m high noise barriers at the construction boundary of the pedestrian overhead bridge worksites fronting noise sensitive human receptors at CCK HDB estates, along noise sensitive human receptors with direct line of sight into the construction worksites; - Source noise control for equipment such as generators, lorry, trucks, excavators, cranes etc. with acoustic dampeners, sheds, enclosures.	Moderate to Major Negligible to Moderate	Before commencement of any construction works (including site clearance) •One-time airborne noise monitoring for 1 week at the following locations, for establishment of latest baseline: 1. Vicinity of Nexxis Asia Pte Ltd, Sungei Kadut Street 3; 2. JTC Lot No. MK11-00541K near The Stone Gallery by Hafary, Sungei Kadut Central; 3. Vicinity of JSM Construction Group Pte Ltd facing Woodlands Road; 4. Vicinity of HDB Block 691B facing Pang Sua Canal; 5. Vicinity of commercial buildings such as Chong Timber Pte Ltd, along Rail Corridor; 6. Along Rail Corridor on side opposite and facing Windermere Residences; 7. HDB Block 632A Senja Road; 8. Near Teck Whye Secondary School, facing the Pang Sua Canal; and 9. Along Rail Corridor near Sungei Kadut Avenue. During Construction Phase •Continuous monitoring to capture LAeq(12 hours), LAeq(1 hour) and LAeq(5 mins) at the following locations for the entire duration of construction: 1. Vicinity of Nexxis Asia Pte Ltd, Sungei Kadut Street 3; 2. JTC Lot No. MK11-00541K near The Stone Gallery by Hafary, Sungei Kadut Central; 3. Vicinity of JSM Construction Group Pte Ltd facing Woodlands Road; 4. Vicinity of HDB Block 691B facing Pang Sua Canal; 5. Vicinity of commercial buildings such as Chong Timber Pte Ltd, along Rail Corridor; 6. Along Rail Corridor on side opposite and facing Windermere Residences; 7. HDB Block 632A Senja Road; 8. Near Teck Whye Secondary School, facing the Pang Sua Canal; and	CT, ECO

Environmental Aspect	Description of Receptor		Potential Activities Causing Impact	Minimum Controls *(Good practices in addition to LTA's General Safety, Health and Environmental specifications)*	Significance of Potential Impact (assumes implementation of minimum controls)			Mitigation Measures	Significance of Residual Impact (with Mitigated Scenario)	Description of Monitoring Required	Close Up Actions
	Receptor	**Value/ Sensitivity**			**Specific Parameter** *(e.g. Leq 12 hrs/ Leq 1 hr, CO, NO2, PM10, TSS etc)*	**Time Zone** *(E.g. Morning / evening/ night)*	**Impact Significance (with Base Scenario)**				
	Eurokars Group									9. Along Rail Corridor near Sungei Kadut Avenue. Records on noise levels from construction sites should be properly kept and produced when requested. Environmental audit by independent EMMP Consultant, monthly during construction phase.	
	Ewins Pte, uberGARD										
	Gali Batu MRT Depot (SBS Transit)										
	Grandwork Building										
	GWT Engineering and Trading Pte Ltd, 36 Sungei Kadut St 1										
	HDB Block 687A, Choa Chu Kang										
	HDB Block 687B, Choa Chu Kang										
	HDB Block 687D, Choa Chu Kang Drive										
	HDB Block 690B, Choa Chu Kang Crescent										
	Heng Ann Engineering Pte Ltd										
	Hup Huat Glass Pte										
	Hup Huat Timber Co (Singapore) Pte Ltd										
	Ichiban Glass Construction										
	Jae Auto, 48A Sungei Kadut Ave										
	Jennings Trading Enterprise Pte										
	Joo Cheng Enterprise										
	JS Timber Pte Ltd										
	JSM Construction Group Pte Ltd										
	JTC Trendspace										
	KAFER Prostar Pte Ltd										
	Kenwood Industries Pte Ltd										
	Kenwood Trading (S) Pte Ltd, 1 Sungei Kadut St 3										
	KT&T Group of Contractors										
	Lam Chuan Import-Export Pte										
	LHT Holdings, Multiform Developments & Con Pte Ltd, 4 Sungei Kadut St 2										
	LHT Holdings Limited										
	Likok Paper Recycling, Wang Lai Construction Eng Pte Ltd, Rigger's Int Supp										
	Load Controls Systems Pte, Thi Foundation Equipment Pte Ltd										
	Luxx Newhouse Design Centre, 40 Sungei Kadut St 2										
	Macllord Industrial Pte Ltd										
	Mandai 66kV SPPG										
	Mandai Connection										
	Mandai Link Logistics										
	MRC Global (Singapore) Pte										
	MWS Nursing Home - Yew Tee, 51 CCK North 6										
	Nexxis Asia Pte										
	Nova Furnishing Centre, X'clusive Home Furniture's										
	NS Trading Pte Ltd										
	Rattan Cane Processors Manufacturing, Unicane, 37 Sungei Kadut St 1										
	Redwood Interior Pte, DDG Glass Pte, Zola Design Pte Ltd										
	Samco Civil Engineering Pte Ltd, Double-Trans Pte										
	Sen Wan Timber (S) Pte Ltd, Ann Ta Building Materials & Wooden Pdts Supp										
	Seng Hin Sawmill Co (Singapore) Pte Ltd										
	Silverline Renovation Contractor										
	Sin Gee Huat Recycling Pte Ltd, 41 Sungei Kadut St 1										
	Sin Lian Seng Bolts & Nuts Pte Ltd, 33 Sungei Kadut St 1										
	SMART Recycling Pte Ltd, Ker & Ker Co, 36 Sungei Kadut St 1										
	Sri Arasakesari Sivan Temple, Yew Tee BalaVihar										
	Sungei Kadut Fire Post										
	Sunray Building										
	Systmz Pte Ltd										
	Tai Giap Pte Ltd										
	Tan Chiang's Brothers Marble, Hot Spring Stone Pte Ltd										
	Tat Hong, THT Academy, 19 Sungei Kadut Ave										
	Teck Tong Furniture Decoration Co, Yee San Interior Design & Decoration										
	The Stone Gallery by Hafary, S Power Super Mart, Sun Petgamart										
	Tien Seng Marble Pte, 38 Sungei Kadut St 1										
	Tong Guan Plant										
	Topzone E&C Pte Ltd										
	Venture Logistics & Engineering Pte Ltd										

Environmental Aspect	Description of Receptor		Potential Activities Causing Impact	Minimum Controls *(Good practices in addition to LTA's General Safety, Health and Environmental specifications)*	Significance of Potential Impact (assumes implementation of minimum controls)			Mitigation Measures	Significance of Residual Impact (with Mitigated Scenario)	Description of Monitoring Required	Close Up Actions
	Receptor	**Value/ Sensitivity**			**Specific Parameter** *(e.g. Leq 12 hrs/ Leq 1 hr, CO, NO2, PM10, TSS etc)*	**Time Zone** *(E.g. Morning / evening/ night)*	**Impact Significance (with Base Scenario)**				
	White Horse Ceramic (S) Pte Ltd										
	Wong Coco Pte, Fashion Home										
	Xiong Lue Furniture Pte Ltd										
	Yew Tee Primary School										
	Rail Corridor	Priority 1 & 2			Scenario 2 - Main Civil Works - Weekday $L_{eq(5 mins)}$	Night Period	Moderate to Major		Moderate to Major		
	Sungei Pang Sua										
	Pang Sua Canal						Negligible to Major		Moderate		
	15 Sungei Kadut Street 2	Priority 1, 2 & 3									
	15 Sungei Kadut Street 2, Worker's Dormitory										
	20 The Windermere										
	21 Sungei Kadut Avenue, Worker's Dormitory										
	21 Sungei Kadut Street 1										
	25 Sungei Kadut Street 1										
	25J Sungei Kadut Street 1										
	40 The Quintet										
	42 The Quintet										
	Admira Pte Ltd										
	Brighton Furniture Display Centre, 46 Sungei Kadut Ave										
	Castilla Singapore										
	Chong Sun Wood Products Pte Ltd, Pan Star Wood Marketing Pte Ltd										
	Chop Kim Huat										
	Da Di Glass										
	Durotech Industries (S) Pte Ltd, 15 Sungei Kadut Way										
	Eurokars Group										
	Ewins Pte, uberGARD										
	Gali Batu MRT Depot (SBS Transit)										
	Grandwork Building										
	HDB Block 627, Senja Road										
	HDB Block 632A, Senja Road										
	HDB Block 632B, Senja Road										
	HDB Block 633, Senja Road										
	HDB Block 633A, Senja Road										
	HDB Block 633B, Senja Road										
	HDB Block 633C, Senja Road										
	HDB Block 633D Senja Road										
	HDB Block 634A, Senja Road										
	HDB Block 634B, Senja Road										
	HDB Block 634C, Senja Road										
	HDB Block 635 Senja Road										
	HDB Block 635A, Senja Road										
	HDB Block 635B, Senja Road										
	HDB Block 635C, Senja Road										
	HDB Block 656, Choa Chu Kang										
	HDB Block 660, Choa Chu Kang										
	HDB Block 661, Choa Chu Kang										
	HDB Block 662, Choa Chu Kang										
	HDB Block 663 Choa Chu Kang Crescent										
	HDB Block 664 Choa Chu Kang Crescent										
	HDB Block 665 Choa Chu Kang Crescent										
	HDB Block 666 Choa Chu Kang Crescent										
	HDB Block 688C Choa Chu Kang Crescent										
	HDB Block 689A, Choa Chu Kang										
	HDB Block 690 Choa Chu Kang Crescent										
	HDB Block 690A Choa Chu Kang Crescent										
	HDB Block 690B Choa Chu Kang Crescent										
	HDB Block 690C, Choa Chu Kang										
	HDB Block 690D, Choa Chu Kang										
	HDB Block 691, Choa Chu Kang										
	HDB Block 691A, Choa Chu Kang										
	HDB Block 691B, Choa Chu Kang										
	HDB Block 692A, Choa Chu Kang										
	HDB Block 692B, Choa Chu Kang										
	Hup Huat Timber Co (Singapore) Pte Ltd										
	Jae Auto, 48A Sungei Kadut Ave										

Environmental Aspect	Description of Receptor		Potential Activities Causing Impact	Minimum Controls *(Good practices in addition to LTA's General Safety, Health and Environmental specifications)*	Significance of Potential Impact (assumes implementation of minimum controls)			Mitigation Measures	Significance of Residual Impact (with Mitigated Scenario)	Description of Monitoring Required	Close Up Actions
	Receptor	**Value/ Sensitivity**			**Specific Parameter** *(e.g. Leq 12 hrs/ Leq 1 hr, CO, NO2, PM10, TSS etc)*	**Time Zone** *(E.g. Morning / evening/ night)*	**Impact Significance (with Base Scenario)**				
	Jennings Trading Enterprise Pte Joo Cheng Enterprise JS Timber Pte Ltd, 14 Sungei Kadut St 3 JTC Trendspace KAFER Prostar Pte Ltd Kenwood Industries Pte Ltd KT&T Group of Contractors LHT Holdings Limited Likok Paper Recycling, Wang Lai Construction Eng Pte Ltd, Rigger's Int Supp Load Controls Systems Pte, Thi Foundation Equipment Pte Ltd Macllord Industrial Pte Ltd MRC Global (Singapore) Pte Nexxis Asia Pte Nova Furnishing Centre, X'clusive Home Furnitures Pan-United Concrete Pte Ltd 15 Sungei Kadut St 3 Redwood Interior Pte, DDG Glass Pte, Zola Design Pte Ltd Samco Civil Engineering Pte Ltd, Double-Trans Pte Sen Wan Timber (S) Pte Ltd, Ann Ta Building Materials & Wooden Pdts Supp Seng Hin Sawmill Co (Singapore) Pte Ltd Soon Timber Trading Pte Sri Arasakesari Sivan Temple, Yew Tee BalaVihar STAR Living 52 Sungei Kadut Drive Sungei Kadut Fire Post Sunray Building Tai Giap Pte Ltd Tat Hong Training Centre, 19 Sungei Kadut Ave The Stone Gallery by Hafary, S Power Super Mart, Sun Petgamart Thong Huat Brothers Pte Ltd Tiong Aik Building Tong Guan Plant Topzone E&C Pte Ltd Welead Pte Ltd. 81 Sungei Kadut Drive West View Primary School Xiong Lue Furniture Pte Ltd Yew Tee Primary School										
	Rail Corridor Sungei Pang Sua Pang Sua Canal	Priority 1 & 2			Scenario 3 - Potential Future Infrastructure, Reception Track Terminal, Elevated Vehicular Bridge - Weekday Leq(5 mins)	Night Period	Moderate to Major		Moderate to Major		
	20 The Windemere 28 The Windemere 30 The Windemere 32 The Windemere 36 The Quintet 38 The Quintet 40 The Quintet 42 The Quintet 44 The Quintet 46 The Quintet 88 Mandai Estate Da Di Glass Eurokars Group Gali Batu MRT Depot (SBS Transit) HDB Block 656, Choa Chu Kang HDB Block 657, Choa Chu Kang HDB Block 661, Choa Chu Kang HDB Block 691, Choa Chu Kang HDB Block 692A, Choa Chu Kang HDB Block 692B, Choa Chu Kang Hup Huat Glass Pte Ichiban Glass Construction Immedia Tower 4, Seidensha Singapore Pte Ltd, Suites Technologies Pte JSM Construction Group Pte Ltd KT&T Group of Contractors Load Controls Systems Pte, Thi Foundation Equipment Pte Ltd Mandai 66kV SPPG MRC Global (Singapore) Pte NS Trading Pte Ltd	Priority 1, 2 & 3					Negligible to Moderate		Moderate to Major		
Ground-borne Noise	21A, 180, 243A, 250A, 337,350,397, 566 Woodlands Road 632, 632A, 632B, 633, 633A, 633B, 633C, 633D, 634, 634A, 634B, 634C, 635, 635A, 635B Senja Road 3 Jln Gali Batu 5 Stagmont RIng	Priority 2 & 3	•Rock breaking and excavation •Tunnel boring using the TBM •Compacting concrete using the vibrator equipment •Piling works for Station, vehicular bridge, and potential future infrastructure •Bulldozer for worksites and facility building	•Conduct surveys of burrows when the predicted vibration levels approach or exceed a level of 80 % of the lowest criteria, in this case, ecological criteria. •Use low vibration equipment and construction techniques. •Limiting the rotational speed of the cutting surface of the TBM or the thrust force and the progress rate of the tunnel boring. •Impose and signpost a maximum speed limit of 25 km/hr on paved or surfaced haul roads and 15 km/hr on unpaved haul roads and work areas.	Ground-borne Noise Threshold, $L_{Amax, slow}$ dB	24 Hours	Negligible to Major	• Schedule rock breaking and excavation activities during day time. • Reduce the maximum instantaneous charge (MIC) at Sungei Kadut Station. • The Contractor will ensure that the vibration levels for any construction activities at Rail Corridor (excluding the worksite area) do not exceed PPV, 8 mm/s, especially for rock breaking and tunnel boring. • No night works should be conducted after 7pm for all non-safety critical activities. • If there are justified complaints from the operations, particularly from the tunnel boring machine, then the operation may need to consider the use of reduced thrust force or rotational speed.	Negligible to Moderate	No monitoring for ground-borne noise is required.	ECO, CT

Table 1
Environmental Impact Register
(Construction Phase)

Environmental Aspect	**Description of Receptor**		**Potential Activities Causing Impact**	**Minimum Controls** *(Good practices in addition to LTA's General Safety, Health and Environmental specifications)*	**Significance of Potential Impact (assumes implementation of minimum controls)**			**Mitigation Measures**	**Significance of Residual Impact (with Mitigated Scenario)**	**Description of Monitoring Required**	**Close Up Actions**
	Receptor	**Value/ Sensitivity**			**Specific Parameter** *(e.g. Leq 12 hrs/ Leq 1 hr, CO, NO2, PM10, TSS etc)*	**Time Zone** *(E.g. Morning / evening/ night)*	**Impact Significance (with Base Scenario)**				
	32, 36, 38, 40, 42, 44, 46 Choa Chu Kang Street 64		•Heavy construction vehicles such as bulldozers •Other construction equipment •Stationary equipment with diesel engines								
	Tennis Court Beside 46 Choa Chu Kang Street 64										
	656, 661, 662, 663, 664, 668A, 690A, 690C, 690D, 691, 691A, 691B, 692, 692A, 692B Choa Chu Kang Cres										
	6, 8, 12, 14, 16, 18, 19, 22, 25, 31, 33, 39, 45, 46, 48 Sungei Kadut Avenue										
	5, 13, 15, 17, 18, 20, 20A, 32 Sungei Kadut Way										
	2A, 2B, 2C, 6A, 6D, 88, 90, 92, 94, 96 Mandai Estate										
	Building between 2A and 2B Mandai Estate										
	21, 23, 23A, 23F, 23H, 25, 27, 36 Sungei Kadut Street 1										
	Beside 25A Sungei Kadut Street 1										
	Beside 34 Sungei Kadut Street 1										
	5, 6, 8, 15, 18, 25, 29, 31, 36, 38 Sungei Kadut Street 2										
	3, 4, 6, 7, 8, 9, 10 Sungei Kadut Street 3										
	Beside 3 Sungei Kadut Street 3										
	Container Building along Gali Batu Close										
	West View Primary School										

Environmental Aspect	Description of Receptor		Potential Activities Causing Impact	Minimum Controls *(Good practices in addition to LTA's General Safety, Health and Environmental specifications)*	Significance of Potential Impact (assumes implementation of minimum controls)			Mitigation Measures	Significance of Residual Impact (with Mitigated Scenario)	Description of Monitoring Required	Close Up Actions
	Receptor	**Value/ Sensitivity**			**Specific Parameter** *(e.g. Leq 12 hrs/ Leq 1 hr, CO, NO2, PM10, TSS etc)*	**Time Zone** *(E.g. Morning / evening/ night)*	**Impact Significance (with Base Scenario)**				
Ground-borne Vibration	Rail Corridor	Priority 2 & 3	•Rock breaking and excavation •Tunnel boring using the TBM •Compacting concrete using the vibrator equipment •Piling works for Station, vehicular bridge, and potential future infrastructure •Bulldozer for worksites and facility building •Heavy construction vehicles such as bulldozers •Other construction equipment •Stationary equipment with diesel engines	•Conduct surveys of burrows when the predicted vibration levels approach or exceed a level of 80 % of the lowest criteria, in this case, ecological criteria. •Use low vibration equipment and construction techniques. •Limiting the rotational speed of the cutting surface of the TBM or the thrust force and the progress rate of the tunnel boring. •Impose and signpost a maximum speed limit of 25 km/hr on paved or surfaced haul roads and 15 km/hr on unpaved haul roads and work areas.	Ground-borne Vibration Level, PPV, mm/s	24 Hours	Negligible to Major	• Schedule rock breaking and excavation activities during day time. • Avoid rotary bore piling, rock breaking and excavation, and tunnel boring near rail corridor during peak bird breeding season from March to July. • Reduce the maximum instantaneous charge (MIC) at Sungei Kadut Station. • The Contractor will ensure that the vibration levels for any construction activities at Rail Corridor (excluding the worksite area) do not exceed PPV, 8 mm/s, especially for rock breaking and tunnel boring. • No night works should be conducted after 7pm for all non-safety critical activities. • The Ecologist shall be present to survey burrows and mud lobster mounds before any construction activities. Camera traps may be deployed if required to confirm fauna activity in the event they are detected within the Biodiversity Study Area. Construction works are allowed to be continued if no burrows, mud lobster mounds, or fauna activity is detected; • During, rock breaking and excavation, rotary bore piling and tunnel boring construction activities, EM/ECO shall monitor for any fauna behaviour at the GI pipes and canvas sheets barrier for at least thirty (30) minutes after the event. If any animal found dashing into the barriers, Wildlife Response Plan will be activated; • If there are justified complaints from the operations, particularly from the tunnel boring machine, then the operation may need to consider the use of reduced thrust force or rotational speed. • Set up barriers using GI pipes and canvas sheet to prevent road kills. • If there are industrial estates and/or E63 drain abutting the rail corridor, there is no need for barriers along the external perimeter along the road as risks of roadkill are low. Canvas sheets must be used to cover existing fences to prevent fauna from passing through. Along the road at Sungei Kadut Avenue, no barriers are required to maintain connectivity for fauna. However, to address the concerns on roadkills along this road, speed bumps can be considered to minimize chances of roadkill. • During Tunnel Boring, the Ecologist and ECO shall monitor for the collapse of specific burrow/mound that is confirmed to be used by a fauna and suggest ways to further mitigate on-site based on observations causing the impact. This is to be included in the daily checks by the ECO and monthly inspection by the Ecologist.	Negligible to Major	During Specific Stages in Construction Phase •In the event of a valid complaint, until the complaint has been resolved. •Environmental audit monthly during construction phase.	ECO, CT
	21A, 180, 243A, 250A, 337,350,397, 566 Woodlands Road	Priority 2 & 3					Negligible to Moderate		Negligible to Minor	Before commencement of any construction works (including site clearance) •Continuous monitoring for 1 week at the proposed monitoring locations before commencement of any construction works. During Specific Stages in Construction Phase •In the event of a valid complaint, until the complaint has been resolved. •Environmental audit monthly during construction phase. •Continuous monitoring for 24 hours during the start of rotary bore piling/ vibratory piling/ when the TBM approaches the receptor. Proposed Monitoring Locations: •632A Senja Road •44 Choa Chu Kang Street 64 •692 Choa Chu Kang Cres •25 Sungei Kadut Avenue	
	632, 632A, 632B, 633, 633A, 633B, 633C, 633D, 634, 634A, 634B, 634C, 635, 635A, 635B Senja Road										
	3 Jln Gali Batu										
	5 Stagmont RIng										
	32, 36, 38, 40, 42, 44, 46 Choa Chu Kang Street 64										
	Tennis Court Beside 46 Choa Chu Kang Street 64										
	656, 661, 662, 663, 664, 668A, 690A, 690C, 690D, 691, 691A, 691B, 692, 692A, 692B Choa Chu Kang Cres										
	6, 8, 12, 14, 16, 18, 19, 22, 25, 31, 33, 39, 45, 46, 48 Sungei Kadut Avenue										
	5, 13, 15, 17, 18, 20, 20A, 32 Sungei Kadut Way										
	2A, 2B, 2C, 6A, 6D, 88, 90, 92, 94, 96 Mandai Estate										
	Building between 2A and 2B Mandai Estate										
	21, 23, 23A, 23F, 23H, 25, 27, 36 Sungei Kadut Street 1										
	Beside 25A Sungei Kadut Street 1										
	Beside 34 Sungei Kadut Street 1										
	5, 6, 8, 15, 18, 25, 29, 31, 36, 38 Sungei Kadut Street 2										
	3, 4, 6, 7, 8, 9, 10 Sungei Kadut Street 3										
	Beside 3 Sungei Kadut Street 3										
	Container Building along Gali Batu Close										
	West View Primary School										

Table 2
Environmental Impact Register
(Operational Phase)

Environmental Aspect	Description of Receptor		Potential Activities Causing Impact	Minimum Controls *(Good practices in addition to LTA's General Safety, Health and Environmental specifications)*	Significance of Potential Impact (assumes implementation of minimum controls)			Mitigation Measures	Significance of Residual Impact (with Mitigated Scenario)	Description of Monitoring Required	Close Up Actions
	Receptor	**Value/Sensitivity**			**Specific Parameter** *(e.g. Leq 12 hrs/ Leq 1 hr, CO, NO2, PM10, TSS etc)*	**Time Zone** *(E.g. Morning / evening/ night)*	**Impact Significance (with Base Scenario)**				
Biodiversity	Mangrove, Sungei Pang Sua (Habitats)	Priority 1	Habitat degradation Change in species composition	• Ensure noise levels are within approved limits • Ensure dust levels are within approved limits • Avoid fogging by implementing preventive measures for mosquito to remove sources of stagnant water or water-bearing receptacles, e.g., providing well-maintained pitched roof, clearing discarded items daily, store materials appropriately, level up ground depression/uneven surfaces, ensure effective drainage flow.	Flora and Fauna	No requirement	Negligible to Minor	**Operational Phase** • Unused areas and/or areas which was cleared for works during the construction should be replanted. Adopt a native planting palette considering the existing and surrounding vegetation. • Execute in-fill planting or dense planting using native species and mangrove/back mangrove species, especially in areas with forest gaps or areas with bare or sparse undergrowth • Conduct monitoring to observe possible impacts of proposed potential future infrastructure at Sungei Pang Sua mangrove, especially for the Sonneratia caseolaris cluster. • Bird-friendly building designs • Design and administrative measures	Negligible to Minor	**Arboriculture, Flora** • Monitoring of the condition of trees at and around the new development, especially at the proposed potential future infrastructure, to determine the physiological health and structural stability of trees as edge effects can lead to die back of canopies, and branch and structural failures. Recommend additional mitigating measures if necessary. • Assessment of the condition of retained trees, if any, to ensure that there has been no deterioration or mechanical damage and to determine if additional tree removal is required. • Where a tree exhibits signs of stress, the Arborist should inspect the tree and advise on strategies to reduce further impacts and rehabilitation measures. Where monitoring indicates that drying out or edge impacts are occurring, remediation measures shall be undertaken. These measures may be temporary (such as carrying out watering when there is seven continuous days without rainfall). Long-term solutions shall be investigated and implemented.	Rail Operator/ EHS Officer, Floral Specialist, Arborist
	Waste Woodland, Scrubland, Stream (Habitats)	Priority 2									
	Urban Vegetation, Pang Sua Canal (Habitats)	Priority 3									
	Flora species	Priority 1, 2, 3	Mortality Competition from exotic plant species				Negligible to Moderate		Negligible to Minor		
	Fauna species	Priority 1, 2, 3	Collision with buildings (birds only) Injury or mortality Loss of ecological connectivity for faunal movement				Negligible to Moderate		Negligible to Minor		
Hydrology and Surface Water Quality	Maintenance workers and visitors of the proposed development	Priority 2	Stormwater runoff on hydrology	- Potential increase of peak-flow due to the change in the land use at the new developments can be mitigated by providing detention tanks within the Study Area. Detention tanks can capture stormwater during heavy storm events to reduce the peak runoff. Stored water can then be discharged back to the system after the storm event. As required by PUB, the storage system needs to be in place to reduce the peak flow at the operational phase to be the same or less than that of the existing condition; - Geotechnical aspect of site's slope stability (such as ERSS) to be included in detailed design engineering for the operational stage; - Active, Beautiful, Clean Water (ABC) Water Design approach can be considered to reduce the peak-flow as well; - Providing more softscape area should be considered in the design of the development to reduce the run-off coefficient which will help to reduce the peak flow and reduce flood risk at downstream area; and - Provide more pervious areas to increase the seepage of surface water into the soil.	Hydrology - Existing drain/stream capacity, baseflow	No requirement	Minor	Not applicable	Minor	• Monthly one-time monitoring for temperature, pH, conductivity, total dissolved solids, turbidity, total suspended solids, dissolved oxygen at discharge outlets of the Project, Sungei Pang Sua and Pang Sua Canal for first three (3) months of operational phase. • Monthly one-time monitoring for biochemical oxygen demand, chemical oxygen demand, total nitrogen, nitrate, ammoniacal nitrogen, total alkalinity, total organic carbon, total phosphorus, orthophosphate, enterococcus for discharge outlets of the Project, Sungei Pang Sua and Pang Sua Canal for first three (3) months of operational phase. • Daily inspection on water quality and hydrology especially during heavy storm event, for first three (3) months of operational phase.	Rail Operator/ EHS Officer
	Visitors and residents in the vicinity of the proposed development	Priority 2					Minor	Not applicable	Minor		
	Habitats and biocenosis of Pang Sua Canal	Priority 1					Minor	Not applicable	Minor		
	Habitats and biocenosis of Sungei Pang Sua	Priority 1					Minor	Not applicable	Minor		
	Maintenance workers and visitors of the proposed development	Priority 2	Stormwater runoff on water quality	- Adequate drainage, piping and/or channelling of stormwater runoff to be assured through detailed design [such as Active, Beautiful, Clean Water (ABC) Water Design approach] for capture and treatment before discharge into watercourses; - Regular and dedicated procedures for the inspection and maintenance of stormwater collection, storage, and treatment infrastructure, such as pipes, oil water separation, silt screens, etc.; and - Regular and dedicated procedures for the management of stormwater collection, settling, testing and eventual discharge of 'clean' water to watercourses.	Water Quality - parameters listed in NEA's Allowable Limits for Trade Effluent Discharge for all discharge points; parameters listed in Water Quality Criteria for Aquatic Life for Sungei Pang Sua and Pang Sua Canal.		Minor	Not applicable	Minor		
	Visitors and residents in the vicinity of the proposed development	Priority 2					Minor	Not applicable	Minor		
	Habitats and biocenosis of Pang Sua Canal	Priority 1					Minor	Not applicable	Minor		
	Habitats and biocenosis of Sungei Pang Sua	Priority 1					Minor	Not applicable	Minor		
	Maintenance workers and visitors of the proposed development	Priority 2	Improper management of liquid and solid wastes on water quality	- To prepare sufficient disposal bins surrounding of the Project to avoid improper disposal of waste; - To conduct regular inspection on wastes' storage system of the Project; - To monitor the existing and proposed watercourses and its surroundings with CCTV surveillance regularly to ensure no contamination occurred; - To develop an emergency response plan and conduct adequate training to maintenance workers to cope the accidental water contamination; and - Raising awareness of various stakeholders with community/stakeholder engagement (e.g. signage boards, warning signs, etc.)	Water Quality - parameters listed in NEA's Allowable Limits for Trade Effluent Discharge for all discharge points; parameters listed in Water Quality Criteria for Aquatic Life for Sungei Pang Sua and Pang Sua Canal.		Minor	Not applicable	Minor		
	Visitors and residents in the vicinity of the proposed development	Priority 2					Minor	Not applicable	Minor		
	Habitats and biocenosis of Pang Sua Canal	Priority 1					Minor	Not applicable	Minor		
	Habitats and biocenosis of Sungei Pang Sua	Priority 1					Minor	Not applicable	Minor		
Soil and Groundwater & Waste	Urban Vegetation	Priority 3	Permanent land use change	Incorporate more pervious surfaces in the development plan	Groundwater level	No requirement	Minor	Not applicable	Minor	N/A	N/A
	Scrubland	Priority 3					Minor	Not applicable	Minor		
	Mangrove Forest	Priority 2					Minor	Not applicable	Minor		
	Waste Woodland	Priority 3					Minor	Not applicable	Minor		
	Pang Sua Canal	Priority 3					Negligible	Not applicable	Negligible		

Environmental Aspect	Description of Receptor		Potential Activities Causing Impact	Minimum Controls *(Good practices in addition to LTA's General Safety, Health and Environmental specifications)*	Significance of Potential Impact (assumes implementation of minimum controls)			Mitigation Measures	Significance of Residual Impact (with Mitigated Scenario)	Description of Monitoring Required	Close Up Actions
	Receptor	**Value/Sensitivity**			**Specific Parameter** *(e.g. Leq 12 hrs/ Leq 1 hr, CO, NO2, PM10, TSS etc)*	**Time Zone** *(E.g. Morning / evening/ night)*	**Impact Significance (with Base Scenario)**				
	Sungei Pang Sua	Priority 2					Minor	Not applicable	Minor		
	Future maintenance workers and visitors of the area	Priority 1					Negligible	Not applicable	Negligible		
	Urban Vegetation	Priority 3	•Small quantities of chemical waste generated during maintenance works and operational phase (e.g. used fluorescent bulbs, used lead-batteries, used chemical containers, etc.) •Operation of trains resulting in diesel oil leakage •Improper handling of hazardous substances during operational phase •Heavy rain and stormwater wash-off pollutants in the new development area and discharge into surrounding soil and groundwater	•Ensure no trade effluent other than that of a nature or type approved by NEA Director-General will be discharged into any watercourse or land. •Store all toxic chemical waste at designated sheltered area provided with access-controlled entrance and concrete bund walls or in storage containers with good ventilation. Spill trays will be provided for all chemical drum and potentially pollutive substances. Spill trays will be regularly maintained to prevent rain from washing out the pollutive substances. •Dispose all toxic waste chemicals to licensed TIW collectors for treatment •Ensure all hazardous chemicals/substances are labelled its movement is recorded and returned to the designated storage areas when not in use. •Ensure all activities including repair, servicing, engine overhaul works, etc. involving the use of hazardous chemicals/ substances are carried out on an area which is appropriately contained (e.g. concreted area and with proper containment/sumps). •Provide emergency spill kits on site in the event of any chemical spillages. The emergency response team will also be competent in the use of these spill kits.	Toxic Chemical Waste Generation During Maintenance Work and Improper Handling of Hazardous Chemicals/ Substances	No requirement	Minor	Not applicable	Minor	•Monitoring records of the amount and type of toxic chemical waste generated during first three (3) months of the operational phase •Inspection of hazardous chemical/substances storage conditions during first three (3) months of the operational phase	CT/ EHS
	Scrubland	Priority 3					Minor	Not applicable	Minor		
	Mangrove Forest	Priority 2					Minor	Not applicable	Minor		
	Waste Woodland	Priority 3					Minor	Not applicable	Minor		
	Pang Sua Canal	Priority 3					Minor	Not applicable	Minor		
	Sungei Pang Sua	Priority 2					Minor	Not applicable	Minor		
	Future maintenance workers and visitors of the area	Priority 1					Minor	Not applicable	Minor		
Air Quality	**Ecological Receptors**		During operational phase, since the trains are powered by electricity, they do not emit air emissions as a direct impact to environment through the facility buildings. Gaseous and particulate emissions from vehicle exhaust due to the increased traffic in vicinity of the Project due to Project operation.	No minimum control has been assumed for the purpose of air quality impact assessment during operational phase.	Gaseous (NO_2 and CO) and Particulate emissions (PM10 and $PM_{2.5}$)	24/7 throughout project lifetime	Minor	No mitigation measures are required during operational phase as only Minor air quality impact significance is expected during project operational phase.	Minor	N/A	N/A
	Rail Corridor	Priority 1									
	Sungei Pang Sua										
	Human Receptors	Priority 1					Minor		Minor		
	Yew Tee Primary School										
	Teck Whye Secondary School										
	West View Primary School										
	HDB Block 635 at Choa Chu Kang North 6										
	HDB Block 639-643 at Choa Chu Kang Street 64										
	The Windermere										
	The Quintet										
	Regent Grove										
	HDB Block 656-666, 668, 690, 690A, 690B, 690C, 690D, 691, 691A, 691B, 692A, 692B at Choa Chu Kang Crescent										
	HDB Block 687C, 687D, 688B, 688C, 689A, 689B, 690A, 690B, 690C, 690D at Choa Chu Kang Drive										
	HDB Block 625, 626, 627, 629, 629B, 630, 632A, 632B, 633, 633A, 633B, 633C, 633D, 634A, 634B 635, 635A, 635B, 635C at Senja Road										
	Sri Arasakesari Sivan										
	HDB Multi Storey Carpark Block 629A, 632, 634, 636 at Senja Road										
	Senja Centre										
	HDB Multi Storey Carpark Block 660A, 661A, 668A, 692 at Choa Chu Kang										
	HDB Multi Storey Carpark 689 Choa Chu Kang Drive										
	Matsushita House Singapore										
	Trendspace										
	LUXX Newhouse Design Centre										
	Sungei Kadut Fire Post										
	Sunray Building										
	Grandwork Building										
	Mandai Connection										
	566 Woodlands Road										
	BHL Factories										
	M-Space										

Environmental Aspect	Description of Receptor		Potential Activities Causing Impact	Minimum Controls *(Good practices in addition to LTA's General Safety, Health and Environmental specifications)*	Significance of Potential Impact (assumes implementation of minimum controls)			Mitigation Measures	Significance of Residual Impact (with Mitigated Scenario)	Description of Monitoring Required	Close Up Actions
	Receptor	**Value/Sensitivity**			**Specific Parameter** *(e.g. Leq 12 hrs/ Leq 1 hr, CO, NO2, PM10, TSS etc)*	**Time Zone** *(E.g. Morning / evening/ night)*	**Impact Significance (with Base Scenario)**				
	80, 82, 84, 86, 88, 90, 92, 94, 96 Mandai Estate										
	Innovation Place										
	West Life Mandai Dormitory										
	Gali Batu Depot										
	Eurokars Centre										
	6, 8, 14, 16, 18, 19, 20, 21, 22, 31, 33, 39, 45, 46, 47, 48, 48A, 50, Sungei Kadut Avenue										
	1, 3, 5, 14, 15, 16, 16A, 17, 18, 20, 20A Sungei Kadut Way										
	21, 23, 23A, 23F, 23H, 25J, 25, 27, 35, 36, 38, 40, 41, 43 Sungei Kadut Street 1										
	4, 6, 8, 15, 18, 19A, 23, 29, 31, 37, 38, 39 Sungei Kadut Street 2										
	1, 2, 3, 4, 6, 10, 14, 15, 16, 18 Sungei Kadut Street 3										
	1A, 3, 5, 7, 9, 11, 11A Sungei Kadut Street 4										
	71 Sungei Kadut Drive										
	6 Mandai Link										
	387, 387A, 387B, 387C, 387D, 387E, 387F, 387G, 387H, 387J, 387K, 387L Woodlands Road										
	397, 397A, 397B, 397C, 397D, 397E, 397F, 397G, 397H, 397J, 397K, 397L Woodlands Road										
Airborne Noise	Rail Corridor	Priority 1 & 2	Traffic noise due to increase in vehicular volume due to the development of the project and air-conditioning and mechanical ventilation noise from services at the facility building.	No minimum control has been assumed for the purpose of operations of trains.	Leq 1 hr	Records on noise levels of boundary noise during first three (3) months of the operational	Negligible	Not applicable	Negligible	N/A	N/A
	Sungei Pang Sua										
	Pang Sua Canal										
Ground-borne Vibration	Rail Corridor	Priority 2 & 3	Operation of the alignment and traffic in the Study Area. Train induced vibration is mainly caused by the roughness of the wheel and rail. Vibration from operating trains is also dependent on the resonance frequencies of the train suspension system and track support system. These mechanical systems have resonances that results in increased vibration response. Traffic vibration is mainly due to heavy vehicles passing at relatively high speed on a road with an uneven surface profile. Interaction between wheels and road surface causes a dynamic excitation which generates waves propagating in the soil and to nearby sensitive receptors.	No minimum control has been assumed for the purpose of traffic induced vibration. Minimum controls for operation of trains: • Train, track and tunnel design; • Maintenance of vertical track alignment at the relevant longitudinal wavelengths; • Maintenance of roughness of the rail head and wheel thread at the relevant longitudinal and circumferential wavelengths, respectively; and • Maintenance of resilient elements in track construction, e.g. rail pads • Maintenance of rail joints, switches and crossings.	Ground-borne Vibration Level, PPV, mm/s	24 hours for first three (3) months of the initially operational phase	Minor	Not applicable	Minor	N/A	N/A

Table 3
Classification of Receptor Sensitivity

Environmental Parameter	Receptor Sensitivity		
	Priority 1	**Priority 2**	**Priority 3**
Biodiversity	Flora, fauna species and habitats of high ecological value (i.e., presence of conservation significant flora, fauna species and habitats; trees of conservation significance and NParks-designated heritage trees)	Flora, fauna species and habitats of moderate ecological value (i.e., mainly native species of flora, fauna and habitats)	Flora, fauna species and habitats of low ecological value (i.e., mainly exotic or cryptogenic flora, fauna and habitats; managed vegetation which can provide crucial habitat for significant species)
Hydrology	Human Receptors: •Residential developments or high-value industrial or agricultural developments in the vicinity of watercourses without any flood mitigation measures •Any other development where human activity would be changed long-term, severely altered or completely prevented due to changes in existing hydrology Ecological Receptors: Habitats and/or biocenosis of high ecological value that require certain quantities of water for normal functioning	Human Receptors: •Residential developments or high-value industrial or agricultural developments in the vicinity of watercourses with implemented flood mitigation measures •Any other development where human activities would be changed short-term and/or moderately altered due to changes in existing hydrology Ecological Receptors: Habitats and/or biocenosis of high ecological value that could be flooded due to changes in existing hydrology which would cause moderate and/or short-term disturbances in their functioning	Human Receptors: •Non high-value industrial or agricultural developments in the vicinity of the watercourses •Any other development in the vicinity of the watercourse where human activity will not be affected by changes in hydrology Ecological Receptors: Habitat and/or biocenosis that are not of high ecological value and that will not be flooded or disturbed due to changes in existing hydrology
Surface Water Quality	Human Receptors: •Humans or entities (e.g. companies, facilities) that use water for beneficial purposes (i.e. drinking purposes or irrigation) •Industrial or agricultural developments that require water of high-quality or water with particular physico-chemical characteristics for their processes and activities •Humans that may come in contact with contaminated water (i.e. water with one or more parameters that exceed adopted screening criteria[s] with respect to human health) Ecological Receptors: Habitats and/or biocenosis of high ecological value with low tolerance to changes in water quality	Human Receptors: •Entities (e.g. companies, facilities) that use water for industrial purposes and do not have special requirements regarding the water quality •Humans that may come in contact with water that is not contaminated (i.e. water with all the parameters below adopted screening criteria[s] with respect to human health) Ecological Receptors: Habitats and/or biocenosis of high ecological value with medium to high tolerance to changes in water quality	Human Receptors: •Humans or entities (e.g. companies, facilities) within or in the vicinity of the Study Area that do not use water for any beneficial purpose (i.e. drinking or industrial purposes, irrigation) •Humans within or in the vicinity of the Study Area that will not come in contact with water Ecological Receptors: Habitats and/or biocenosis within or in the vicinity of the Study Area that are not of high ecological value

Table 3
Classification of Receptor Sensitivity

Environmental Parameter	Receptor Sensitivity		
	Priority 1	**Priority 2**	**Priority 3**
Soil and Groundwater Quality	Ecological Receptors: Habitats and biocenosis of high ecological value that are dependent of groundwater. Human Receptors: •Humans or entities (e.g. companies, facilities) that use groundwater for drinking purposes or irrigation. •Humans (e.g. workers, visitors) that may come in direct contact with contaminated soil and/ or groundwater.	Ecological Receptors: Habitats and biocenosis of high ecological value that are partly dependent of groundwater. Human Receptors: •Entities (e.g. companies, facilities) that use groundwater for industrial purposes. •Humans that may come in contact with soil and/ or groundwater that are not contaminated.	Ecological Receptors: •Habitats and biocenosis of high ecological value that are not dependent of groundwater. •Habitats and biocenosis that are not of high ecological value. Human Receptors: •Humans or entities (e.g. companies, facilities) that do not use groundwater for any beneficial purpose (i.g. drinking or industrial purposes, irrigation). •Humans that will not come in contact with soil and/ or groundwater.
Air Quality	Ecological Receptors: Flora, Fauna Species and Habitats of High Ecological Value within 20 m of construction worksite area Human Receptors: •Sensitive receptors[2] (more than 100 receptors) within 50m of the construction area. •Sensitive receptors (1-100 receptors) within 20m of the construction area. •Office, industrial facilities, or shops (more than 10 receptors) within 20m of the construction area.	Ecological Receptors: •Flora, Fauna Species and Habitats of High Ecological Value within 20 m to 50m of construction worksite area. •Ecological sites having known sensitive communities within 20 m of construction worksite area. Human Receptors: •Sensitive receptors (more than 100 receptors) between 50m to 100m of the construction area. •Sensitive receptors (1-100 receptor) between 20m to 50m of the construction area. •Office, industrial facilities, or shops (more than 10 receptors) within 20m to 50m of the construction area. •Office, industrial facilities, or shops (1-10 receptors) within 20m of the construction area.	Ecological Receptors: •Ecological sites 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. Human Receptors: •Public footpath, playing fields and parks within 20m from the construction area. •All other buildings within the 350m study boundary.
Airborne Noise[3]	Species that use sound for communication, foraging and breeding or are known to have their behaviours disrupted by sound or are of Conservation Significance.	Species that are less affected by airborne noise but are of Conservation Significance.	Species that are less affected by airborne noise and are not of Conservation Significance.
Ground-borne Noise	Human Receptors: Hospitals using sensitive equipment, industries/laboratories using sensitive equipment.	Human Receptors: Residential buildings, community centres, religious buildings, schools and education buildings, hospitals or medical centres, nursing homes, heritage buildings and national monuments.	Human Receptors: Commercial buildings, industrial buildings, infrastructure, industrial food centres, sports and recreation centres (e.g. golf courses, stadiums, club houses).

Table 3
Classification of Receptor Sensitivity

Environmental Parameter	Receptor Sensitivity		
	Priority 1	**Priority 2**	**Priority 3**
Ground-borne Vibration	Ecological Receptors: Vibration-sensitive species with conservation status and low mobility and habitats of high sensitivity to ground-borne vibration in consultation with Biodiversity specialist after surveys[4]. Human Receptors: Hospitals using sensitive equipment, industries/laboratories using sensitive equipment.	Ecological Receptors: Vibration-sensitive species without conservation status and low mobility and habitats of moderate sensitivity to ground-borne vibration in consultation with Biodiversity specialist after surveys. Human Receptors: Residential buildings, community centres, religious buildings, schools and education buildings, hospitals or medical centres, nursing homes, heritage buildings and national monuments.	Ecological Receptors: Vibration-sensitive species with high mobility; species not sensitive to vibration, and habitats of low sensitivity to ground-borne vibration in consultation with Biodiversity specialists after surveys. Human Receptors: Commercial buildings, industrial buildings, infrastructure, industrial food centres, sports and recreation centres (e.g. golf courses, stadiums, club houses).

[1] Waterbody usage will be determined based on the PUB Water Catchment Map.

[2] 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.

[3] The fact is that different species are likely to react differently to disturbance and that will be influenced by various other factors such as how percussive the noise is (e.g. from rock breaking and excavation and piling), how far away the receptor is generally, 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).

[4] The receptor sensitivity of ground-borne noise and vibration will be determined based on the biodiversity baseline survey results.

Table 4 - Determine Impact Intensity

Environmental Parameters	Impact Intensity			
	Negligible Intensity	**Low Intensity**	**Medium Intensity**	**High Intensity**
Biodiversity (Construction and Operation) – Habitats	Potential impacts with no detectable changes to viability/function of habitats.	Potential impacts with • Small temporal and spatial (localised) scale changes that affects part of the habitat, such that there is no loss of viability/function of habitat • Changes that are reversible	Potential impacts with • Moderate duration and/or over a considerable spatial scale changes that affects part of the habit but does not threaten the long-term viability/function of the habitat • Changes that are reversible with significant input and mitigation measures	Potential impacts with • Extensive duration and large spatial scale that affects the entire habitat, or a significant proportion of it, and the long-term viability/function of the habitat is threatened • Changes that are non-reversible
Biodiversity (Construction and Operation) – Flora and Fauna	No expected changes to species population	•Short duration and small-scale localised spatial changes that could cause minimal changes to species population •Changes are reversible	•Moderate duration and medium-scale spatial changes that could cause moderate reduction in size of species population, but would not threaten species long-term viability •Changes are reversible with mitigation measures	•Extended duration and large-scale spatial changes that could cause substantial reduction in size of species population and threaten species long-term viability •Changes are irreversible
Hydrology (Construction and Operation)	Very minor change to existing hydrology and flow.	Small scale localised changes to existing hydrology or flow.	Medium scale changes to existing hydrology or peak flow.	Major changes to existing hydrology or peak flow.
Surface Water Quality (Construction and Operation)	No contamination; or Likely to be well within regulatory limits.	Small scale localised contamination within regulatory limits.	Medium scale contamination or just exceed regulatory limits.	Large scale contamination exceed regulatory limits by hazardous levels for the habitat/ conservation species.
Soil, Groundwater (Construction and Operation)	•No contamination of soil and groundwater. •No reduction in groundwater levels.	•Small scale, localised soil or groundwater contamination which is not likely to extend beyond the study area and is possible to remediate. •Small scale, localised groundwater level decrease which is not likely going to extend beyond the study area.	•Medium scale soil or groundwater contamination which is likely to extend beyond the study area but is possible to remediate within the construction period time frame. •Medium scale groundwater level decrease that is possibly going to extend beyond the study area.	•Large scale soil or groundwater contamination which is likely to extend beyond the study area and may require large scale remediation. •Large scale groundwater level decrease that is likely going to extend far beyond the study area.
Air Quality (Construction Phase) [1]	-	For Demolition: • Total building volume <20,000 m^3 • Construction material with low potential for dust release (e.g. metal cladding or timber) • Demolition activities <10m above ground • Demolition during wetter months	For Demolition: • Total building 20,000 – 50,000 m^3 • Potentially dusty construction material • Demolition activities 10-20 m above ground level	For Demolition: • Total building >50,000 m^3 • Potentially dusty construction material (e.g. concrete) • On-site crushing and screening • Demolition activities >20m above ground level
	-	For 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	For Earthworks: • Total site area 2,500 m^3 – 10,000 m^3 • 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	For Earthworks: • 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
	-	For Construction: • Total building volume <25,000 m^3 • Construction material with low potential for dust release (e.g. metal cladding or timber)	For Construction: • Total building volume 25,000-100,000 m^3 • Potentially dusty construction material (e.g. concrete) • On-site concrete batching	For Construction: • Total building volume >100,000 m^3 • On-site concrete batching • sandblasting
	-	For Trackout: • <10 HDV [2] (>3.5t) outward movements in any one day • Surface material with low potential for dust release • Unpaved road length <50 m	For Trackout: • 10-50 HDV [2] (>3.5t) outward movements in any one day • Moderately dusty surface material (e.g. high clay content) • Unpaved road length 50-100 m	For Trackout: • >50 HDV [2] (>3.5t) outward movements in any one day • Potentially dusty surface material (e.g. high clay content) • Unpaved road length >100 m
Air Quality (Operational Phase)	Insignificant increase in air quality levels in the vicinity of stations due to Project operation.	Small scale increase in air quality levels in the vicinity of stations due to Project operation.	Medium scale increase in air quality levels in the vicinity of stations due to Project operation.	Large scale increase in air quality levels in the vicinity of stations due to Project operation.
Airborne Noise (Construction and Operation)	No detectable change to flora, fauna and habitats. Predicted noise level at receptors are within the corrected baseline criteria. For A1-W1 Worksite, predicted noise levels at receptors are below the baseline noise (no correction applied here).	Potential impacts last a short duration, are reversible and/or of a small magnitude for species with low auditory sensitivity level. Predicted noise level exceeds the corrected baseline criteria of up to 3 dB(A).	Potential impacts last for a moderate duration, are reversible with significant input and compensatory measures, and/or of a moderate magnitude for species with auditory sensitivity level. Predicted noise level exceeds the corrected baseline criteria of up to 4 - 6 dB(A).	Potential impacts last for a long time, are non-reversible, and/or of a significant magnitude for species with high auditory sensitivity level. Predicted noise level exceeds the corrected baseline criteria of more than 6 dB(A).
Airborne Noise (Air Overpressure from rock breaking and excavation)	The predicted noise levels are equal or lower than 120 dB.	The predicted noise levels are between 121 to 149 dB.	The predicted noise levels are between 150 to 179 dB.	The predicted noise levels are equal or higher than 180 dB.
Ground-borne Noise see note 3	No Priority 1 sensitive receptors have been found for the assessment.			
	Human only (Priority 2)			
	≤ L_{ASmax} 35 dB	L_{ASmax} 36 - 39 dB	L_{ASmax} 40 - 44 dB	≥ L_{ASmax} 45 dB
	Human only (Priority 3)			
	≤ L_{ASmax} 45 dB	L_{ASmax} 46-49 dB	L_{ASmax} 50-54 dB	≥ L_{ASmax} 55 dB
Ground-borne Vibration due to blasting see note 5	No Priority 1 sensitive receptors have been found for the assessment.			
	Human only (Priority 2)			
	< PPV, 6.0 mm/s	PPV, 6.0 – 10.0 mm/s	PPV, > 10.0 - < 15.0 mm/s (see note 6)	
	Human only (Priority 3)			
	< PPV, 14.0 mm/s	PPV, 14.0 - < 15.0 mm/s (see note 6)		
Ground-borne Vibration due to other construction activities (see note 4)	No Priority 1 sensitive receptors have been found for the assessment.			
	Human only (Priority 2)			
	< PPV, 0.30 mm/s	PPV, 0.30 – < 1.0 mm/s	PPV, 1.0 – < 10.0 mm/s	≥ PPV, 10.0 - <15.0 mm/s (see note 6)
	Human only (Priority 3)			
	< PPV, 1.0 mm/s	PPV, 1.0 – < 10.0 mm/s	≥ PPV, 10.0 - < 15.0 mm/s (see note 6)	

[1] This impact intensity criterion is equivalent to the Emission Magnitude as defined in IAQM's Guidance.

[2] Heavy duty vehicles (HDV) defined as vehicles with a gross weight greater than 3.5 tonnes.

[3] Operational ground-borne noise impact assessment for human response is excluded from this report. Ground-borne noise impact assessment is not applicable for ecological receptors.

[4] The impact intensity criteria for ecology are PPV, 5.0 mm/s to screen for high vibration generating construction and operational activities; and PPV, 8.0 mm/s (equivalent to 80% of the vibration threshold recorded in the literature review for a different species) for assessing the structural integrity of terrestrial burrows and mud lobster mounds. Operational ground-borne noise impact assessment on humans is excluded from this report.

[5] Blast occurs in the day only, and this impact assessment assesses up to three blast events per day.

[6] > PPV, 15.0 mm/s is unacceptable as this will lead to cosmetic damage to the building

Table 5 - Determine Consequence of Impacts (General)

		Receptor Sensitivity		
		Priority 3	**Priority 2**	**Priority 1**
Impact Intensity	**Negligible**	Imperceptible	Imperceptible	Very Low
	Low	Very Low	Very Low	Low
	Medium	Very Low	Low	Medium
	High	Low	Medium	High

Table 6 - Determine Likelihood of Impacts

Likelihood Criteria	**Definition**	**Definition for Quantitative Evaluation (Construction & Operational)**
Unlikely/ Remote*	Would be unlikely or remotely expected to occur during construction and operational phases.	When the frequency of exposure to noise/vibration impacts for fauna is < 5% during the construction or operation phase
Less Likely/ Rare*	Would less likely or rarely occur during construction and operational phases.	When the frequency of exposure to noise/vibration impacts for fauna is 5 – 15% during the construction or operation phase.
Possible/ Occasional*	Would possibly or occasionally occur during construction and operational phases.	When the frequency of exposure to noise/vibration impacts for fauna is 16 – 25% during the construction or operation phase.
Likely/ Regular*	Would likely to occur or would occur on a regular basis during construction and operational phases.	When the frequency of exposure to noise/vibration impacts for fauna is 26 – 50% during the construction or operation phase.
Certain/ Continuous*	Would be certain to occur or would occur continuously during construction and operational phases.	When the frequency of exposure to noise/vibration impacts for fauna is > 50% during the construction or operation phase.

Note:
* The second term (i.e. remote, rare, occasional, regular, continuous) is not applicable to noise/ground-borne vibration.
References:
1.Ecological Impact Assessment (EcIA). EIANZ Guidelines for use in New Zealand: terrestrial and freshwater ecosystems. 2nd Edition. May 2018.
2.CIEEM (2018). Guidelines for ecological impact assessment in the UK and Ireland: Terrestrial, Freshwater and Coastal. September 2018.

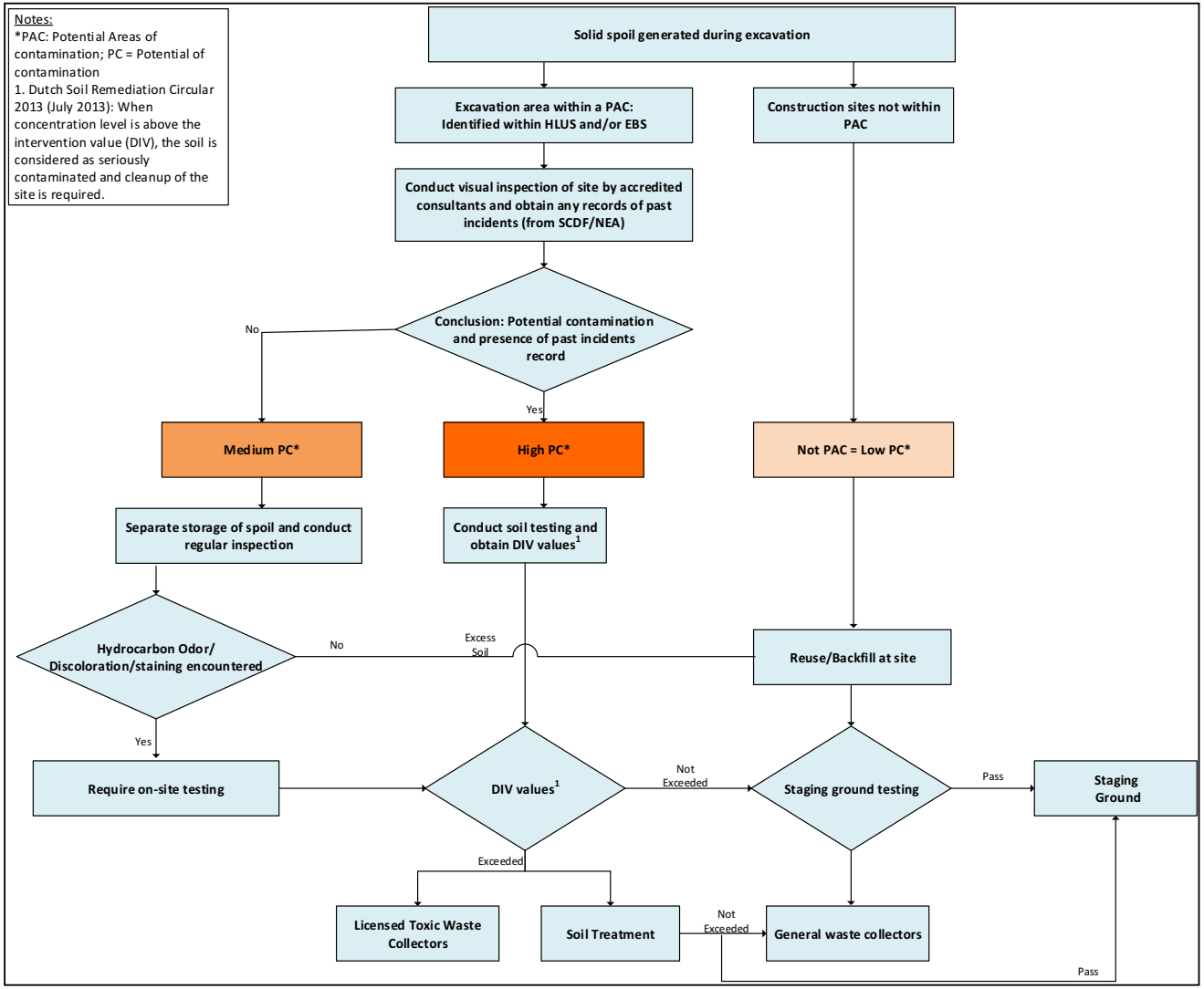
Table 7 - Determine Impact Significance (General)

		Consequence				
		Imperceptible	**Very Low**	**Low**	**Medium**	**High**
Likelihood	**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

Table 8 - Definition of Final Impact Significance Level

Impact Significance Levels	**Definitions**
Negligible	Impacts are indistinguishable from the existing baseline environmental conditions, or non-noticeable by the receptor/ habitat as a change. A negligible impact is unlikely to pose concern to the government, communities and organisations.
Minor	Impacts of low magnitude, shorter term, reversible. Minor impacts are usually within accepted limits/standards provided with minimum controls or best practices, and is unlikely to pose concern to the government, communities and organisations.
Moderate	Impacts of medium magnitude, longer term, but reversible. Moderate impacts are manageable within accepted limits/standards after consideration of suitable mitigation measures or can be reduced to a level that is as low as reasonably practicable.
Major	Impacts of high magnitude, exceeds limits/standards, permanent and non-reversible. Major impacts should seek alternatives in design/ location etc. and/ or mitigation measures to avoid/compensate and/or reduce major impacts to as low as reasonably practicable.

Figure 1 - Screening and disposal of excavated soils



Appendix B

Flora Species List

Species	Family	Common Name	Origin	Status
Acanthus ebracteatus	Acanthaceae	Sea Holly, Jeruju, Holly-Leaved Mangrove	Native	Vulnerable
Acanthus ilicifolius	Acanthaceae	Mangrove Holly, Sea Holly, Jeruju Putih, Kolimulli	Native	Common
Acanthus sp.	Acanthaceae	-	Native	Vulnerable
Acrostichum aureum	Pteridaceae	Leather Fern, Paku Laut, Mangrove Fern, Piai Raya	Native	Common
Adenanthera pavonina	Fabaceae	Saga, Coral Bean Tree, Red Sandalwood Tree	Exotic	Naturalised
Aegle marmelos	Rutaceae	Bel, Maja, Matum, Bilak, Bengal Quince, Bael Fruit	Exotic	Cultivated Only
Alocasia macrorrhizos	Araceae	Giant Taro, Greater Alocasia, Elephant's Ear	Exotic	Naturalised
Amphineuron opulentum	Thelypteridaceae	-	Native	Common
Andira inermis	Fabaceae	Brown Heart, Cabbage Tree, Bastard Mahogany	Exotic	Casual
Aphanamixis polystachya	Meliaceae	Pasak Lingga, Amoora	Native	Common
Artemisia vulgaris	Asteraceae	Common Mugwort, Common Wormwood	Exotic	Cultivated Only
Artocarpus altilis	Moraceae	Breadfruit, Sukun, Suku, Kulur, Kelor	Exotic	Casual
Artocarpus heterophyllus	Moraceae	Jackfruit, Nangka	Exotic	Casual
Asplenium nidus var. nidus	Aspleniaceae	Bird's Nest Fern, Rumah Langsuyar, Paku Pandan	Native	Common
Asystasia gangetica ssp. micrantha	Acanthaceae	Common Asystasia, Chinese Violet	Exotic	Naturalised
Averrhoa carambola	Oxalidaceae	Star Fruit, Belimbing Manis, Kembola, Carambola	Exotic	Casual
Avicennia alba	Acanthaceae	Api Api, Api Api Putih	Native	Common
Avicennia officinalis	Acanthaceae	Api Api Ludat	Native	Common
Avicennia rumphiana	Acanthaceae	Api-Api Bulu	Native	Common
Axonopus compressus	Poaceae	Tropical Carpet Grass, Cow Grass,	Exotic	Naturalised
Azadirachta indica	Meliaceae	Neem Tree, Nim Tree, Indian Lilac, Margosa Tree	Exotic	Casual
Baccaurea motleyana	Phyllanthaceae	Rambai, Common Rambai	Native	Critically Endangered
Bambusa heterostachya	Poaceae		Exotic	Casual
Barringtonia racemosa	Lecythidaceae	Common Putat, Fish-Killer Tree, Fish-Poison Tree	Native	Critically Endangered
Basella alba	Basellaceae	Indian Spinach, Ceylon Spinach	Exotic	Cultivated Only
Bidens alba	Asteraceae	Shepherd's Needles, Butterfly Needles	Exotic	Cultivated Only
Brachiaria mutica	Poaceae	-	Exotic	Naturalised
Bridelia stipularis	Phyllanthaceae	Kenidai, Kernam	Native	Vulnerable
Bruguiera cylindrica	Rhizophoraceae	Pakau Putih, Berus, Bakau Putih	Native	Common
Buchanania arborescens	Anacardiaceae	Sparrows' Mango, Otak Udang, Katak Udang, Ketak Udang	Native	Common

Species	Family	Common Name	Origin	Status
Bucida molinetii	Combretaceae	Spiny Black Olive, Spiny Bucida	Exotic	Cultivated Only
Caesalpinia crista	Fabaceae	Squirrel'S Claws, Kuku Tupai	Native	Common
Calophyllum inophyllum	Calophyllaceae	Penaga Laut, Bintangor Laut	Native	Endangered
Calopogonium mucunoides	Fabaceae	Calopo, Calapo, Wild Ground Nut	Exotic	Naturalised
Canarium odontophyllum	Burseraceae	Dabai, Kambayau	Exotic	Cultivated Only
Carallia brachiata	Rhizophoraceae	Corkwood, Corky Bark, False Kelat	Native	Vulnerable
Carica papaya	Caricaceae	Papaya, Betik, Pawpaw, Betek, Melon Tree, Ketalah	Exotic	Casual
Cecropia pachystachya	Urticaceae	-	Exotic	Naturalised
Cenchrus purpureus	Poaceae	Napier Grass, Elephant Grass, Uganda Grass	Exotic	Naturalised
Centrosema molle	Fabaceae	-	Exotic	Naturalised
Cerbera odollam	Apocynaceae	Pong Pong	Native	Vulnerable
Ceriops zippeliana	Rhizophoraceae	Tengar Merah	Native	Endangered
Chamaesyce thymifolia	Euphorbiaceae	-	Cryptogenic	-
Chrysopogon aciculatus	Poaceae	Love Grass, Temuchut	Native	Common
Chukrasia tabularis	Meliaceae	Chittagong Wood, Chukrasia, Indian Redwood	Exotic	Cultivated Only
Cinnamomum iners	Lauraceae	Wild Cinnamon	Native	Common
Claoxylon indicum	Euphorbiaceae	Laping Budak, Jarak Kayu, Lampin Budak	Native	Common
Clausena excavata	Rutaceae	Pink Lime-Berry	Native	Common
Clidemia hirta	Melastomataceae	Koster'S Curse	Exotic	Naturalised
Cocos nucifera	Arecaceae	Coconut, Coconut Palm, Kelapa, Niyor	Exotic	Naturalised
Commelina diffusa	Commelinaceae	Spreading Dayflower, Climbing Dayflower, Scurvy Weed	Cryptogenic	-
Cordyline fruticosa	Asparagaceae	Red Dracaena, Cabbage Tree	Exotic	Casual
Couroupita guianensis	Lecythidaceae	Cannon Ball Tree	Exotic	Cultivated Only
Crassocephalum crepidioides	Asteraceae	Thickhead Weed, Redflower Ragleaf, Fireweed	Exotic	Naturalised
Cratoxylum cochinchinense	Hypericaceae	Kayu Arang, Yellow Cow Wood	Native	Endangered
Cyathula prostrata	Amaranthaceae	Hookweed, Pastureweed, Nyarang	Native	Common
Cyclosorus interruptus	Thelypteridaceae	Swamp Shield-Fern	Native	Common
Cyperus aromaticus	Cyperaceae	Navua Sedge	Exotic	Naturalised
Cyperus mindorensis	Cyperaceae	White Kyllinga, Whitehead Spikesedge	Native	Common
Cyrtophyllum fragrans	Gentianaceae	Tembusu	Native	Common

Species	Family	Common Name	Origin	Status
Davallia denticulata	Davalliaceae	Rabbit'S Foot Fern, Paku Tertutup	Native	Common
Dendrobium crumenatum	Orchidaceae	Pigeon Orchid, White Dove Orchid	Native	Common
Derris trifoliata	Fabaceae	Common Derris, Ketui, Salang, Selang, Setui	Native	Common
Digitaria longiflora	Poaceae	False Couch Grass	Native	Vulnerable
Dimocarpus lichi	Sapindaceae	Mata Kuching	Native	Data Deficient
Dimocarpus longan	Sapindaceae	Longan, Mata Kuching, Lungen, Dragon'S Eye	Exotic	Casual
Dolichandrone spathacea	Bignoniaceae	Mangrove Trumpet Tree, Tui, Tuai, Joran	Native	Critically Endangered
Dracaena surculosa	Ruscaceae	Gold Dust Dracaena, Spotted DracaenA	Exotic	Cultivated Only
Drynaria quercifolia	Polypodiaceae	Oak Leaf Fern, Daun Kepala Tupai, Sakat Laipang	Native	Common
Durio zibethinus	Malvaceae	Durian, Durian Kampong	Exotic	Casual
Elaeis guineensis	Arecaceae	African Oil Palm	Exotic	Casual
Eleutheranthera ruderalis	Asteraceae	-	Exotic	Naturalised
Emblica urinaria	Phyllanthaceae	Shatterstone, Leafflower, Chamber Bitter	Exotic	Naturalised
Emilia sonchifolia	Asteraceae	Katumbi Jantan, Cupid's Shaving Brush	Native	Common
Epipremnum aureum	Araceae	-	Exotic	Casual
Epipremnum pinnatum	Araceae	Dragon-Tail Plant, Taro Vine, Silver Vine	Native	Critically Endangered
Eragrostis unioloides	Poaceae	-	Native	Common
Excoecaria agallocha	Euphorbiaceae	Blind-Your-Eyes, Buta-Buta	Native	Common
Ficus benjamina	Moraceae	Weeping Fig, Benjamin's Fig	Cryptogenic	-
Ficus elastica	Moraceae	Rubber Plant, Rubber Tree	Exotic	Casual
Ficus heteropleura	Moraceae	Sandy-Leafed Fig	Native	Common
Ficus microcarpa	Moraceae	Malayan Banyan	Native	Common
Ficus punctata	Moraceae	Climbing Fig	Native	Common
Ficus religiosa	Moraceae	Sacred Fig Tree, Bodhi Tree	Exotic	Naturalised
Ficus variegata	Moraceae	Common Red-Stem Fig, Variegated Fig	Native	Common
Fimbristylis dichotoma	Cyperaceae	-	Native	Common
Finlaysonia obovata	Apocynaceae	Finlayson’s Creeper	Native	Critically Endangered
Flacourtia inermis	Salicaceae	Batoko Plum, Rukam Masam, Thornless Rukam	Exotic	Cultivated Only
Garcinia atroviridis	Clusiaceae	Asam Gelugor, Gelugor	Native	Critically Endangered
Garcinia subelliptica	Clusiaceae	Happiness Tree, Philippine Fortune Tree, Fukugi	Exotic	Cultivated Only

Species	Family	Common Name	Origin	Status
Gardenia elata var. elata	Rubiaceae	Kula Gardenia	Native	Nationally Extinct; Cultivated
Gardenia gjellerupii	Rubiaceae	Thai Gardenia	Exotic	Cultivated Only
Gnetum gnemon var. gnemon	Gnetaceae	Belinjau, Gnemon Tree	Native	Critically Endangered
Gomphrena globosa	Amaranthaceae	Globe Amaranth, Bachelor's Button	Exotic	Cultivated Only
Grona heterophylla	Fabaceae	Variable-Leaf Tick Trefoil, Spanish Clover	Native	Common
Gymnopetalum scabrum	Cucurbitaceae	-	Native	Common
Halophila beccari	Hydrocharitaceae	Beccari's seagrass, Tiger seagrass, Ocean Turf's seagrass	Native	Endangered
Hedyotis corymbosa	Rubiaceae	Two-Flowered Oldenlandia	Native	Common
Heterotis rotundifolia	Melastomataceae	Spanish Shawl, Pinklady, Trailing Dissotis	Exotic	Cultivated Only
Hibiscus mutabilis	Malvaceae	Confederate Rose, Dixie Rosemallow	Exotic	Cultivated Only
Hopea odorata	Dipterocarpaceae	Chengal Pasir, Merawan Siput Jantan, Chengal Kampong	Exotic	Cultivated Only
Hura crepitans	Euphorbiaceae	Sandbox Tree, Monkey'S Dinner Bell, Huru, Pin Wheel Tree	Exotic	Cultivated Only
Impatiens balsamina	Balsaminaceae	Garden Balsam, Rose Balsam	Exotic	Cultivated Only
Imperata cylindrica	Poaceae	Lalang, Cogon Grass, Alang-Alang, Blady Grass, Speargrass	Native	Common
Indigofera hirsuta	Fabaceae	Hairy Indigo, Roughhairy Indigo	Exotic	Naturalised
Ipomoea batatas	Convolvulaceae	Sweet Potato, Keledek	Exotic	Casual
Ipomoea cairica	Convolvulaceae	Messina Creeper, Mile A Minute Vine, Railway Creeper	Exotic	Naturalised
Ipomoea obscura	Convolvulaceae	Obscure Morning Glory	Native	Common
Ischaemum ciliare	Poaceae	-	Native	Common
Ischaemum muticum	Poaceae	Seashore Centipede Grass,	Native	Common
Khaya senegalensis	Meliaceae	Senegal Mahogany, African Mahogany, Senegal Khaya, Bisselon	Exotic	Cultivated Only
Lagerstroemia speciosa	Lythraceae	Pride Of India, Rose Of India	Exotic	Cultivated Only
Lepisanthes alata	Sapindaceae	Johore Tree, Blimbing Cina	Exotic	Cultivated Only
Leucaena leucocephala	Fabaceae	Lead Tree, Reuse Wattel, Wild Tamarind, Leucaena	Exotic	Naturalised
Leuenbergeria bleo	Cactaceae	Wax Rose, Rose Cactus,	Exotic	Cultivated Only
Limnocharis flava	Alismataceae	Sawah Lettuce, Velvetleaf, Yellow Burrhead, Hermit'S Waterlily	Exotic	Naturalised
Ludwigia octovalvis	Onagraceae	Mexican Primrose Willow, Primrose Willow	Cryptogenic	-
Lumnitzera littorea	Combretaceae	Teruntum Merah, Red Teruntum, Red-Flowered Black Mangrove	Native	Endangered
Lumnitzera racemosa	Combretaceae	White Teruntum, Teruntum Bunga Putih	Native	Endangered
Lygodium flexuosum	Schizaeaceae	-	Native	Common

Species	Family	Common Name	Origin	Status
Macaranga gigantea	Euphorbiaceae	-	Native	Common
Mangifera indica	Anacardiaceae	Mango, Mangas, Mangga, Mempalam, Puah, Mempelam	Exotic	Casual
Mangifera odorata	Anacardiaceae	Saipan Mango, Fragrant Mango, Kweni	Native	Vulnerable
Melastoma malabathricum	Melastomataceae	Common Sendudok, Singapore Rhododendron, Sesenduk	Native	Common
Melothria pendula	Cucurbitaceae	Guadeloupe Cucumber	Exotic	Naturalised
Microsorum punctatum	Polypodiaceae	-	Native	Common
Mikania micrantha	Asteraceae	American Rope, Mile-A-Minute Weed	Exotic	Naturalised
Mimosa diplotricha	Fabaceae	-	Exotic	Naturalised
Mimosa pudica	Fabaceae	Sensitive Plant, Sleepy Plant, Touch-Me-Not	Exotic	Naturalised
Mimusops elengi	Sapotaceae	Tanjong Tree, Bunga Tanjung, Red Coondoo, Mengkulang	Exotic	Casual
Moeroris amara	Phyllanthaceae	Child Pick-A-Back, Gale Of Wind, Carry Me Seed	Exotic	Naturalised
Morus alba	Moraceae	White Mulberry	Exotic	Cultivated Only
Musa acuminata	Musaceae	Banana	Exotic	Cultivated Only
Nelsonia canescens	Acanthaceae	Blue Pussyleaf	Exotic	Naturalised
Nephelium lappaceum var. *lappaceum*	Sapindaceae	Rambutan, Hairy Lychee	Cryptogenic	-
Nephrolepis biserrata	Oleandraceae	Broad Sword Fern, Paku Larat, Giant Sword Fern, Sword Fern	Native	Common
Nypa fruticans	Arecaceae	Nipah Palm, Mangrove Palm, Nipah, Attap, Water Coconut	Native	Vulnerable
Ottochloa nodosa	Poaceae	-	Native	Common
Oxalis barrelieri	Oxalidaceae	Lavender Sorrel	Exotic	Naturalised
Oxyceros longiflorus	Rubiaceae	Akar Berdara Laut	Native	Vulnerable
Paederia foetida	Rubiaceae	Lesser Malayan Stinkwort, Akar Sekentut, Daun Kentut-Kentut	Native	Common
Palaquium obovatum var. *obovatum*	Sapotaceae	Nyatoh Puteh, White Gutta, Nyatoh Putih	Native	Vulnerable
Panicum repens	Poaceae	Torpedo grass	Exotic	Naturalised
Paspalum conjugatum	Poaceae	Buffalo Grass, Hilo Grass	Exotic	Naturalised
Passiflora suberosa	Passifloraceae	Corky Passionflower, Corkystem Passionflower	Exotic	Naturalised
Peltophorum pterocarpum	Fabaceae	Yellow Flame	Native	Critically Endangered
Pentaspadon motleyi	Anacardiaceae	Pelong, White Pelong-Tree, Pelajau	Exotic	Cultivated Only
Philodendron erubescens	Araceae	Blushing Philodendron, Red-Leaf Philodendron	Exotic	Cultivated Only
Piper aduncum	Piperaceae	Spiked Pepper, Matico, Higuillo De Hoja Menuda	Exotic	Naturalised
Piper sarmentosum	Piperaceae	Wild Pepper, Wild Betel, Kadok, Daun Kaduk	Native	Common

Species	Family	Common Name	Origin	Status
Plectranthus monostachyus	Lamiaceae	Monkey's Potato	Exotic	Naturalised
Portulaca grandiflora	Portulacaceae	Japanese Rose, Moss Rose, Portulaca	Exotic	Cultivated Only
Portulaca oleracea	Portulacaceae	-	Exotic	Naturalised
Pteleocarpa lamponga	Gelsemiaceae	Tembusu Tikus	Native	Nationally Extinct; Cultivated
Pterocarpus indicus	Fabaceae	Angsana, Sena, Burmese Rosewood	Exotic	Casual
Ptychosperma macarthurii	Arecaceae	Macarthur Palm	Exotic	Naturalised
Pyrrosia longifolia	Polypodiaceae	Suloi	Native	Common
Pyrrosia piloselloides	Polypodiaceae	Dragon's Scale Fern	Native	Common
Rhizophora apiculata	Rhizophoraceae	Bakau Minyak, Bakau Tandok, Bakau Akik	Native	Common
Samanea saman	Fabaceae	Rain Tree, Pukul Lima	Exotic	Casual
Sandoricum koetjape	Meliaceae	Sentul	Native	Endangered
Sansevieria cylindrica	Asparagaceae	Common Spear Plant, Spear Sansevieria	Exotic	Cultivated Only
Schefflera actinophylla	Araliaceae	Umbrella Tree, Octopus Tree	Exotic	Casual
Scurrula ferruginea	Loranthaceae	-	Native	Vulnerable
Selenicereus undatus	Cactaceae	Dragon Fruit, Pitaya	Exotic	Cultivated Only
Setaria barbata	Poaceae	-	Exotic	Naturalised
Sieruela rutidosperma	Cleomaceae	Ciliate Spider-Flower, Wild Cat's Whiskers	Exotic	Naturalised
Solanum torvum	Solanaceae	Turkey Berry, Devil'S Fig, Terung Pipit	Exotic	Naturalised
Sonneratia alba	Lythraceae	Perepat, Mangrove Apple, Pedada, Pidada	Native	Common
Sonneratia caseolaris	Lythraceae	Crabapple Mangrove, Mangrove Apple, Berembang	Native	Critically Endangered
Spathodea campanulata	Bignoniaceae	African Tulip Tree	Exotic	Naturalised
Sporobolus indicus	Poaceae	Giant Parramatta Grass	Native	Common
Sterculia cordata	Malvaceae	Kelumpang, Kembang	Native	Critically Endangered
Sterculia parviflora	Malvaceae	Common Sterculia	Native	Critically Endangered
Striga asiatica	Orobanchaceae	Asiatic Witchweed	Cryptogenic	-
Struchium sparganophorum	Asteraceae	-	Exotic	Naturalised
Suregada multiflora	Euphorbiaceae	False Lime, Limau Hantu, Ruas-Ruas	Native	Critically Endangered
Swietenia macrophylla	Meliaceae	Broad-Leafed Mahogany, American Mahogany	Exotic	Casual
Synedrella nodiflora	Asteraceae	Cinderella Weed, Pig'S Grass	Exotic	Naturalised
Syngonium podophyllum	Araceae	Arrowhead Vine	Exotic	Naturalised

Species	Family	Common Name	Origin	Status
Syzygium aqueum	Myrtaceae	Water Apple, Jambu Air Mawar	Exotic	Cultivated Only
Syzygium cf *malaccense*	Myrtaceae	Malay Apple, Pomerac, Jambu Bol, Jambu Merah	Exotic	Casual
Syzygium cumini	Myrtaceae	Java Plum, Jambolan, Jiwat, Salam, Kerian Duat	Exotic	Naturalised
Syzygium lineatum	Myrtaceae	Common Kelat, Gelam Tikus	Native	Common
Syzygium myrtifolium	Myrtaceae	Kelat Oil, Kelat Paya, Red Lip	Native	Critically Endangered
Syzygium polyanthum	Myrtaceae	Indonesian Bayleaf	Native	Common
Syzygium zeylanicum	Myrtaceae	Spicate Eugenia, Kelat Nasi Nasi,	Native	Common
Tabebuia rosea	Bignoniaceae	Trumpet Tree, Pink Poui	Exotic	Casual
Talinum triangulare	Portulacaceae	Surinum Purslane, Ceylon Spinach, Waterleaf	Exotic	Cultivated Only
Talipariti tiliaceum	Malvaceae	Sea Hibiscus	Native	Common
Tamarindus indica	Fabaceae	Tamarind, Asam, Asam Jawa, Tamarindo, Indian Date	Exotic	Casual
Tecoma stans	Bignoniaceae	Golden Bells, Yellow Bells, Yellow Bignonia	Exotic	Cultivated Only
Terminalia catappa	Combretaceae	Sea Almond, Ketapang	Native	Common
Terminalia mantaly	Combretaceae	Madagascar Almond, Umbrella Tree	Exotic	Cultivated Only
Tetracera indica	Dilleniaceae	Fireweed, Tetracera, Hedge Row Tetracera	Native	Common
Thunbergia fragrans	Acanthaceae	Angel Wings, Fragrant Thunbergia	Exotic	Naturalised
Thysanolaena latifolia	Poaceae	Bamboo Grass, Buloh Terbau, Tiger Grass	Exotic	Naturalised
Tridax procumbens	Asteraceae	Coat Buttons, Kanching Baju	Exotic	Naturalised
Typhonium roxburghii	Araceae	-	Cryptogenic	-
Urochloa maxima	Poaceae	Guinea Grass, Green Panic Grass	Exotic	Naturalised
Volkameria inermis	Lamiaceae	Indian Privet, Seashore Tubeflower, Seaside Clerodendrum	Native	Common
Xanthosoma sagittifolium	Araceae	-	Exotic	Cultivated Only
Xanthostemon chrysanthus	Myrtaceae	Golden Penda, Golden Myrtle, Black Penda	Exotic	Cultivated Only
Xylocarpus granatum	Meliaceae	Nyireh Bunga, Mangrove Cannonball Tree	Native	Common
Zoysia japonica	Poaceae	Japanese Lawn Grass, Zoysia	Exotic	Cultivated Only

Appendix C

List and location of flora species of conservation significance

Species	Family	Origin	Status	Habit
Acanthus ebracteatus	Acanthaceae	Native	Vulnerable	Shrub
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub
Barringtonia racemosa	Lecythidaceae	Native	Critically Endangered	Tree
Bridelia stipularis	Phyllanthaceae	Native	Vulnerable	Climber
Calophyllum inophyllum	Calophyllaceae	Native	Endangered	Tree
Ceriops zippeliana	Rhizophoraceae	Native	Endangered	Tree
Digitaria longiflora	Poaceae	Native	Vulnerable	Herb
Dolichandrone spathacea	Bignoniaceae	Native	Critically Endangered	Tree
Finlaysonia obovata	Apocynaceae	Native	Critically Endangered	Climber
Halophila beccari	Hydrocharitaceae	Native	Endangered	Herb
Lumnitzera littorea	Combretaceae	Native	Endangered	Tree
Lumnitzera racemosa	Combretaceae	Native	Endangered	Tree
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm
Oxyceros longiflorus	Rubiaceae	Native	Vulnerable	Climber
Palaquium obovatum var. *obovatum*	Sapotaceae	Native	Vulnerable	Tree
Scurrula ferruginea	Loranthaceae	Native	Vulnerable	Climber

Species	Family	Origin	Status	Habit	Northing	Easting
Acanthus ebracteatus	Acanthaceae	Native	Vulnerable	Shrub	43150.06229	19189.07241
Acanthus ebracteatus	Acanthaceae	Native	Vulnerable	Shrub	46206.47391	19041.05683
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	43261.74293	19226.46837
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	43269.92568	19220.45919
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	43296.68483	19221.01653
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	43342.24135	19232.9257
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	43374.75031	19235.93152
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	43391.55742	19244.83498
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	43400.40381	19233.26152
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	43412.45683	19223.24617
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	43424.39842	19238.60407
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	43452.37372	19244.05803
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	43119.29061	19181.44825
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	43105.945	19169.262
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	43092.53191	19167.89267
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	43597.00549	19256.08182
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	43574.89054	19254.18921
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	43553.10718	19256.30291
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	43542.93446	19250.96083
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	43558.74603	19270.43644
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	43521.81406	19267.76432
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	43521.59368	19244.95066
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	43943.10654	19222.70774
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	43985.56782	19209.24358
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	44631.88237	19112.66968
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	44363.84683	19158.73273
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	44265.43441	19176.64637

Species	Family	Origin	Status	Habit	Northing	Easting
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	45692.74759	18885.57338
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	45123.28225	18989.93885
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	45129.69418	19030.55826
Acanthus sp.	Acanthaceae	Native	Vulnerable	Shrub	45652.38984	18943.32896
Barringtonia racemosa	Lecythidaceae	Native	Critically endangered	Tree	44526.06153	19127.24445
Bridelia stipularis	Phyllanthaceae	Native	Vulnerable	Climber	44938.28691	19082.85576
Bridelia stipularis	Phyllanthaceae	Native	Vulnerable	Climber	1.383449	103.75681
Calophyllum inophyllum	Calophyllaceae	Native	Endangered	Tree	43042.36525	19131.53372
Calophyllum inophyllum	Calophyllaceae	Native	Endangered	Tree	43067.57607	19140.21492
Calophyllum inophyllum	Calophyllaceae	Native	Endangered	Tree	46196.08189	18983.29957
Calophyllum inophyllum	Calophyllaceae	Native	Endangered	Tree	45947.51233	18892.48215
Calophyllum inophyllum	Calophyllaceae	Native	Endangered	Tree	45851.31292	18866.99442
Ceriops zippeliana	Rhizophoraceae	Native	Endangered	Tree	46507.2401	18985.425
Dolichandrone spathacea	Bignoniaceae	Native	Critically endangered	Tree	43706.13	19259.05
Dolichandrone spathacea	Bignoniaceae	Native	Critically endangered	Tree	45070.08	18990.21
Finlaysonia obovata	Apocynaceae	Native	Critically endangered	Climber	43368.88945	19247.3938
Finlaysonia obovata	Apocynaceae	Native	Critically endangered	Climber	43409.24905	19255.85291
Finlaysonia obovata	Apocynaceae	Native	Critically endangered	Climber	43434.12843	19256.07632
Finlaysonia obovata	Apocynaceae	Native	Critically endangered	Climber	44652.3401	19073.72041
Finlaysonia obovata	Apocynaceae	Native	Critically endangered	Climber	44814.66551	19039.11624
Finlaysonia obovata	Apocynaceae	Native	Critically endangered	Climber	44898.92412	19027.4342
Finlaysonia obovata	Apocynaceae	Native	Critically endangered	Climber	46135.92974	18963.71128
Finlaysonia obovata	Apocynaceae	Native	Critically endangered	Climber	45583.71987	18904.93312
Finlaysonia obovata	Apocynaceae	Native	Critically endangered	Climber	45123.28225	18989.93885
Finlaysonia obovata	Apocynaceae	Native	Critically endangered	Climber	44956.86445	19056.25917
Finlaysonia obovata	Apocynaceae	Native	Critically endangered	Climber	43929.39589	19203.4548
Finlaysonia obovata	Apocynaceae	Native	Critically endangered	Climber	44151.54279	19156.27717

Species	Family	Origin	Status	Habit	Northing	Easting
Finlaysonia obovata	Apocynaceae	Native	Critically endangered	Climber	44154.41752	19162.84313
Finlaysonia obovata	Apocynaceae	Native	Critically endangered	Climber	44497.09166	19104.09603
Halophila beccari	Hydrocharitaceae	Native	Endangered	Herb	46482.029	18993.882
Lumnitzera littorea	Combretaceae	Native	Endangered	Tree	45650.07	18945.61
Lumnitzera racemosa	Combretaceae	Native	Endangered	Tree	43083.658	19156.148
Lumnitzera racemosa	Combretaceae	Native	Endangered	Tree	46101.53951	19002.65981
Lumnitzera racemosa	Combretaceae	Native	Endangered	Tree	45834.28125	18913.84485
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43253.512	19221.783
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43263.774	19227.447
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43272.078	19220.792
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43277.624	19217.45
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43352.313	19234.631
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43363.119	19244.156
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43373.748	19247.427
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43376.678	19242.376
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43427.364	19253.449
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43442.026	19258.616
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43452.394	19259.687
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43527.31	19269.98
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43503.52	19263.7
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43991.11	19210.07
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	44043.24	19201.46
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43373.24	19227.28
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43410.36	19222.42
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43428.85	19227.74
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43424.87	19226.75
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43444.1	19224.92

Species	Family	Origin	Status	Habit	Northing	Easting
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43450.03	19239.2
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43462.23	19248.02
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43484.9	19242.15
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43480.33	19250.21
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43487.03	19246.99
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43485.91	19253.22
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43501.74	19251.93
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43497.13	19250.25
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43505.73	19240.6
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43531.23	19247.06
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43529.73	19247.27
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43546.18	19247.94
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43552.84	19252.72
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43554.34	19247.96
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43564.77	19261.48
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43591.96	19255.59
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43604.07	19258.23
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43611.43	19253.05
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43640.69	19253.03
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43641.64	19256.65
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	44624.064	19078.066
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	44676.164	19065.34
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	44581.93	19096.89
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43265.878	19198.45
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43252.529	19204.561
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43245.221	19204.104
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43211.355	19192.093

Species	Family	Origin	Status	Habit	Northing	Easting
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43146.719	19164.032
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43177.862	19185.432
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43188.945	19186.304
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43200.628	19181.763
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43219.585	19196.038
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43234.427	19199.257
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43142.96	19184.259
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43135.456	19182.514
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43130.047	19179.52
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43815.06027	19233.16427
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43400.40372	19235.93239
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43434.6823	19226.80808
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43480.34915	19245.95084
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43115.65299	19172.80119
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43105.945	19169.262
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43092.53191	19167.89267
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43119.29061	19181.44825
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	42944.94969	19100.4815
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43048.00445	19135.31765
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43094.88782	19148.45104
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43112.13712	19160.47054
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43114.90137	19164.36566
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43530.99226	19253.74258
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	44039.52864	19203.45855
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	44630.55548	19112.33578
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	44898.92412	19027.4342
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	45536.72512	18914.61327

Species	Family	Origin	Status	Habit	Northing	Easting
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	46348.67206	19081.1244
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	46173.41245	19027.25633
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	46097.33786	18996.98413
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43810.30625	19212.35363
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43822.24834	19212.79918
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43878.86273	19214.02525
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43936.69395	19200.11647
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	43976.83307	19189.3231
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	44167.24431	19160.39528
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	44193.11891	19159.39459
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	44369.48743	19121.56348
Nypa fruticans	Arecaceae	Native	Vulnerable	Palm	45529.09342	18949.66786
Oxyceros longiflorus	Rubiaceae	Native	Vulnerable	Climber	44265.43441	19176.64637
Palaquium obovatum var. obovatum	Sapotaceae	Native	Vulnerable	Tree	45016.13187	19079.63118
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	44971.23914	19058.26281
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43180.80521	19186.95901
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43260.101	19199.656
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43252.593	19201.347
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43175.689	19185.748
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43217.629	19201.952
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43224.29	19206.377
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43222.969	19209.396
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43151.589	19193.564
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43144.023	19178.033
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43216.962	19206.932
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43223.428	19198.897
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43235.093	19199.408

Species	Family	Origin	Status	Habit	Northing	Easting
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43145.611	19188.305
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43142.218	19188.612
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43228.881	19207.381
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43153.296	19192.886
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43229.614	19207.435
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43221.802	19210.768
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43210.462	19194.888
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43224.683	19201.418
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43224.41	19203.085
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43235.883	19200.984
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43235.02	19199.251
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43152.511	19193.434
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43223.083	19209.307
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43213.495	19199.795
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43195.745	19191.594
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43207.062	19204.009
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43234.623	19199.186
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43151.979	19193.163
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43142.67	19175.318
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43224.541	19201.701
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43194.015	19197.611
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43140.746	19187.045
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43134.521	19179.908
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43209.895	19199.352
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43213.585	19203.575
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43158.665	19165.365
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43204.456	19198.36

Species	Family	Origin	Status	Habit	Northing	Easting
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43207.315	19202.664
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43141.077	19188.68
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43140.618	19175.489
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43153.131	19170.13
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43143.205	19175.679
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43152.77	19167.926
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43209.585	19201.357
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43217.62	19202.092
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43146.916	19189.892
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43140.982	19176.558
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43192.017	19186.29
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43208.984	19201.862
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43198.6	19198.915
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43218.903	19198.179
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43145.389	19178.638
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43238.731	19202.224
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43187.091	19188.764
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43227.138	19209.452
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43248.582	19200.547
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43211.98314	19204.09815
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43319.068	19226.736
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43316.828	19226.292
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43343.714	19234.827
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43425.039	19254.075
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43370.39	19223.17
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43401.92	19224.02
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43490.45	19253.06

Species	Family	Origin	Status	Habit	Northing	Easting
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43499.09	19259.93
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43497.94	19261.1
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43495.95	19260.92
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43498.65	19255.4
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43339.725	19233.172
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43416.425	19254.727
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43370.36	19225.5
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43483.53	19250.88
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43309.543	19221.371
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43333.046	19231.834
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43335.093	19231.383
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43336.349	19232.502
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43337.86	19234.397
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43435.086	19254.69
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43439.105	19252.229
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43377.06	19223.44
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43411.53	19229.48
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43428.36	19224.63
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43487.33	19246.49
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43488.98	19248.91
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43274.85	19215.777
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43315.327	19225.253
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43316.957	19224.398
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43318.512	19223.665
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43350.099	19237.448
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43356.09	19239.41
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43363.869	19239.967

Species	Family	Origin	Status	Habit	Northing	Easting
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43441.772	19258.891
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43376.96	19228.93
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43375.21	19229.48
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43427.66	19226.69
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43271.997	19222.03
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43305.467	19224.933
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43339.819	19233.319
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43363.102	19239.203
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43376.633	19241.568
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43394.068	19248.267
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43429.767	19253.299
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43446.2	19230.6
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43450.53	19239.02
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43270.041	19228.164
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43271.796	19220.975
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43311.043	19223.938
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43319.626	19227.58
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43333.982	19231.418
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43344.233	19232.824
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43367.529	19239.04
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43388.455	19246.91
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43390.565	19247.797
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43397.24	19250.5
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43405.957	19249.948
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43369.61	19227.1
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43431.69	19229.17
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43483.23	19245.03

Species	Family	Origin	Status	Habit	Northing	Easting
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43252.08	19217.555
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43270.812	19228.201
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43273.936	19219.604
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43330.041	19232.667
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43383.755	19246.518
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43387.69	19247.349
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43469.933	19266.281
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43271.842	19222.62
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43273.673	19221.536
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43336.703	19232.159
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43399.401	19248.384
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43419.652	19255.026
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43421.464	19256.249
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43460.451	19262.724
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43369.02	19219.11
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43410.88	19230.45
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43479.5	19251.65
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43431.05	19225.03
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43435.87	19229.9
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43454.01	19231.71
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43444.415	19258.934
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43456.3	19236.77
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43412.745	19253.287
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43452.236	19259.214
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43461.11	19246.31
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43109.832	19169.792
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43079.64	19163.151

Species	Family	Origin	Status	Habit	Northing	Easting
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43078.694	19166.109
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43078.08	19152.791
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43109.81	19171.79
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43106.558	19168.732
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43108.769	19171.571
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43103.382	19170.247
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43081.243	19162.859
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43071.084	19160.924
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43126.333	19180.226
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43126.176	19182.381
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43115.041	19172.313
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43115.069	19171.355
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43100.648	19170.256
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43096.588	19167.566
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43075.871	19163.207
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43068.391	19162.813
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43069.68	19161.18
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	42942.822	19124.346
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	42903.373	19126.194
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43073.104	19155.016
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43129.083	19184.172
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43072.181	19164.562
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	42960.64	19129.052
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	42895.832	19097.626
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43125.349	19179.95
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43108.577	19164.014
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43108.112	19168.772

Species	Family	Origin	Status	Habit	Northing	Easting
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43093.24	19167.467
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43080.177	19163.705
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43124.508	19181.637
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43069.369	19160.132
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	42962.588	19128.837
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43128.429	19183.326
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43097.262	19167.101
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43130.158	19175.981
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43120.76209	19157.13225
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43114.174	19159.185
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43083.554	19149.102
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43092.76	19149.951
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43090.746	19147.674
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43092.384	19149.91
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43087.692	19148.471
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43044.197	19130.934
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43108.607	19153.874
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	42962.865	19108.092
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43133.519	19158.595
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	42875.7304	19080.3363
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	42883.865	19092.604
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43524.7	19249.08
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43585.44	19263.11
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43584.53	19249.27
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43553.43	19245.04
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43567.61	19262.82
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43588.17	19255.91

Species	Family	Origin	Status	Habit	Northing	Easting
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43586.39	19247.04
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43586.43	19246.67
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43646.02	19252.2
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43538.29	19251.09
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43564.43	19262.02
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43595.62	19253.4
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43645.23	19251.03
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43533.07	19251.99
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43552.92	19252.54
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43546.68	19257.69
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43602.57	19255.71
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43604.57	19258.46
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43605.66	19257.13
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43622.34	19263.34
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43658.46	19247.34
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43759.61	19230.88
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43519.64	19245.06
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43761.38	19228.67
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43525.9	19249.69
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43542.96	19251.14
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43639.2	19252.94
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43661.12	19250.74
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43521.53	19239.36
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43557.05	19250.58
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43758.72	19239.09
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43528.84	19242.06
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43580.82	19258.57

Species	Family	Origin	Status	Habit	Northing	Easting
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43530.65	19246.63
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43506.36	19240.22
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43945.64	19218.66
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43852.34	19238.53
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43815.82	19228.19
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43791.17	19235.14
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43558.43	19267.07
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43798.4	19247.2
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43831.26	19226.2
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43795.67	19248.5
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43943.47	19211.22
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43611.53	19268.23
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43559.26	19267.42
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43608.63	19270.59
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43858.94	19230.72
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43794.37	19248.51
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43558.91	19267.35
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43811.3	19224.19
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43819.29	19242.48
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	44385.27	19158.76
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	44377.37	19155.79
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	44383.92	19152.68
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	44181.84	19160.396
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	43780.275	19244.921
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	44395.982	19182.544
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	45873.09655	18857.64725
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	45723.15398	18922.52114

Species	Family	Origin	Status	Habit	Northing	Easting
Sonneratia caseolaris	Lythraceae	Native	Critically endangered	Tree	45620.64	18939.09

Appendix D

List and location of large specimens

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK005	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40482.245	19696.691	3	10
CCK007	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40526.41	19674.04	3.95	11
CCK008	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40542.299	19668.227	3	10
CCK022	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40475.053	19776.17	4.8	11
CCK024	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40517.939	19754.234	3.35	9
CCK038	*Pterocarpus indicus*	Fabaceae	Exotic	Casual	Tree	40597.053	19547.462	3.8	12
CCK039	*Pterocarpus indicus*	Fabaceae	Exotic	Casual	Tree	40593.928	19540.023	5.2	16
CCK043	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40532.87	19590.572	4.4	15
CCK048	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40499.212	19615.06	3.85	15
CCK049	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40494.263	19619.033	3.4	15
CCK052	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40497.514	19603.039	3.4	15
CCK062	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40454.799	19624.963	3.1	15
CCK067	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40450.817	19643.646	3.5	15
CCK069	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40446.873	19635.619	3.05	15
CCK073	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40429.997	19639.847	3.3	15
CCK076	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40442.494	19657.791	3.2	15
CCK078	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40434.75	19658.551	3.8	15
CCK080	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40427.957	19662.167	3.1	15
CCK082	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40410.623	19656.289	3.9	15
CCK091	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40390.007	19642.873	3.2	12
CCK099	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40407.187	19630.092	3.1	14
CCK1002	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	43841.667	19276.774	3	20
CCK1003	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	43808.735	19271.229	3	20
CCK1004	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	43815.124	19271.699	4	20
CCK102	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40428.737	19611.985	3.2	13
CCK107	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40449.836	19606.817	4.1	14
CCK1101	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43253.512	19221.783	3	5
CCK1104	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43263.774	19227.447	5	6
CCK1110	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43272.078	19220.792	3	6
CCK1141	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43352.313	19234.631	3	5
CCK1151	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43373.748	19247.427	10 spread	5

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK1154	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43376.678	19242.376	10 spread	6
CCK116	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40478.059	19573.526	3.7	14
CCK117	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40487.632	19574.405	3	15
CCK1178	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43442.026	19258.616	4	6
CCK1184	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43461.745	19266.023	3.5	6
CCK120	*Artocarpus altilis*	Moraceae	Exotic	Casual	Tree	40498.368	19572.154	3.7	16
CCK1236	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43527.31	19269.98	5	6
CCK1237	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43503.52	19263.7	4	8
CCK1244	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43991.11	19210.07	5	6
CCK1254	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	44043.24	19201.46	4	6
CCK129	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40531.414	19546.229	3.7	15
CCK1305	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43373.24	19216.97	3	5
CCK1321	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43410.36	19222.42	4.3	6
CCK1322	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43419.64	19224.77	3	6
CCK1323	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43428.85	19227.74	3	6
CCK1333	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43444.1	19224.92	3	6
CCK1334	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43450.03	19239.2	4	5
CCK1338	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43462.23	19248.02	4	6
CCK134	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40550.517	19536.64	3.2	15
CCK1356	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43501.74	19251.93	5	6
CCK1361	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43505.73	19240.6	3	8
CCK1370	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43531.23	19247.06	4	6
CCK1372	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43529.73	19247.27	3	6
CCK1376	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43546.18	19247.94	5	6
CCK1378	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43552.84	19252.72	3	6
CCK1380	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43554.34	19247.96	6 spread	6
CCK1387	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43573.4	19258.14	3.8	12
CCK139	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40586.33005	19511.66388	3.7	18
CCK1393	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43591.96	19255.59	4	6
CCK1401	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43604.07	19258.23	4	6
CCK1407	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43611.43	19253.05	5	10

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK1418	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43641.64	19256.65	3	7
CCK1424	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43720.15	19240.44	3	8
CCK1433	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44778.55	19140.26	3.2	25
CCK1434	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	44801.587	19126.448	3	25
CCK1435	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44803.763	19152.175	3	25
CCK1440	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44860.544	19145.369	3	30
CCK1441	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44857.232	19150.411	5	30
CCK1442	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44869.37	19151.423	3.3	30
CCK149	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40602.13999	19503.8854	3.7	17
CCK152	*Ficus benjamina*	Moraceae	Cryptogenic	-	Strangler	40625.02997	19481.18352	3.9	15
CCK153	*Pterocarpus indicus*	Fabaceae	Exotic	Casual	Tree	40638.29997	19463.82312	5.4	15
CCK158	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40665.62002	19431.3281	3.2	14
CCK1599	*Ficus microcarpa*	Moraceae	Native	Common	Strangler	46522.36	18997.59	10 spread	20
CCK165	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40681.54003	19425.43039	3.5	12
CCK166	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40698.78999	19417.75212	3.7	15
CCK167	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40702.98996	19421.09088	3.2	14
CCK168	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40706.74995	19410.96386	3.2	14
CCK172	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40741.13999	19401.17169	3.4	14
CCK173	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40722.89004	19390.37623	3.2	14
CCK1737	*Ficus religiosa*	Moraceae	Exotic	Naturalised	Tree	41730.125	19111.676	3.2	12
CCK1738	*Artocarpus altilis*	Moraceae	Exotic	Casual	Tree	41746.552	19092.427	3.3	15
CCK174	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40725.99004	19382.80879	3.4	14
CCK1741A	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41829.356	19102.754	6.5	14
CCK1741B	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41813.046	19110.227	6	14
CCK1741C	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41812.004	19120.339	7	14
CCK1742	*Artocarpus altilis*	Moraceae	Exotic	Casual	Tree	41757.773	19063.955	3	15
CCK1744	*Artocarpus altilis*	Moraceae	Exotic	Casual	Tree	41739.773	19066.346	3.5	15
CCK175	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40726.65	19377.91217	3	13
CCK1756	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41287.944	19118.231	3	18
CCK1757	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41370.757	19107.828	3	18
CCK1758	*Ficus microcarpa*	Moraceae	Native	Common	Strangler	41347.563	19140.573	8 spread	25

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK176	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40748.43995	19383.69983	3.05	13
CCK1760	*Ficus microcarpa*	Moraceae	Native	Common	Strangler	41325.961	19139.522	5 spread	20
CCK1766	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41298.501	19140.207	4	20
CCK1771	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41296.335	19121.153	3	20
CCK1773	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41315.408	19116.709	3.5	20
CCK1774	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41296.769	19117.967	3	20
CCK182	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40788.58005	19379.02707	3.4	14
CCK1843	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44047.504	19230.293	3.5	20
CCK1845	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44058.118	19237.859	3.8	20
CCK1846	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44072.33	19222.742	3.5	20
CCK1848	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44146.162	19221.636	3.8	30
CCK1849	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44161.884	19215.023	3	30
CCK1851	*Macaranga gigantea*	Euphorbiaceae	Native	Common	Tree	44175.229	19201.874	4	15
CCK1859	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44484.071	19174.273	3	25
CCK1860	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44495.192	19175.703	3	30
CCK1861	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	44500.129	19174.199	3.5	20
CCK1862	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44500.967	19166.341	3.8	20
CCK1864	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44519.264	19152.134	3.5	30
CCK1865	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44527.384	19155.856	3.5	30
CCK1869	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44541.936	19147.447	3.5	30
CCK187	*Ficus benjamina*	Moraceae	Cryptogenic	-	Strangler	40803.73004	19369.01171	3.2 spread	16
CCK1870	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44548.609	19158.122	3.8	30
CCK1871	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44557.35	19151.062	3.8	25
CCK1875	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44567.807	19137.183	3.5	30
CCK1876	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44580.212	19136.567	3.8	30
CCK1879	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44609.229	19154.707	3	25
CCK1881	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44645.955	19169.424	3.2	25
CCK1882	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44666.555	19170.86	3.5	25
CCK1885	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44682.541	19161.692	3.8	30
CCK1886	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44693.868	19174.072	4	25
CCK1887	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44707.324	19165.746	3.8	25

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK1888	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44711.875	19164.418	4.2	25
CCK1890	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44713.169	19123.254	3.5	30
CCK1891	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44727.741	19128.184	3.8	30
CCK192	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40798.41995	19346.97666	3.2	15
CCK194	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40826.62002	19346.8663	3.1	15
CCK213	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40895.28	19294.1184	3.1	14
CCK216	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40921.93004	19273.41985	3.2	14
CCK218	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	40941.50996	19254.61296	3.2	10
CCK219	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	40953.88998	19256.9504	3	10
CCK222	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	40976.22999	19234.24856	3	10
CCK223	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	40981.08999	19227.23762	3.4	10
CCK228	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	41027.75996	19197.08035	3	8
CCK231	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41118.76005	19149.67507	3.6	13
CCK233	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41119.41999	19152.2347	3.2	13
CCK234	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41119.18997	19162.69568	3.1	12
CCK237	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	41100.07001	19178.94296	3.6	10
CCK239	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41143.20004	19188.18124	3.8	12
CCK242	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41099.85001	19223.79168	3.4	12
CCK245	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41098.40995	19261.62926	3	8
CCK248	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40618.82	19510.58	4.5	12
CCK2528	*Excoecaria agallocha*	Euphorbiaceae	Native	Common	Tree	44302.92	19170.54	3.4	10
CCK2531	*Excoecaria agallocha*	Euphorbiaceae	Native	Common	Tree	44318.83	19173.82	3.2	8
CCK2553	*Excoecaria agallocha*	Euphorbiaceae	Native	Common	Tree	44466.95	19132.84	3.6	15
CCK258	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40705.81	19460.24	3.2	14
CCK271	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40743.27	19424.87	3.1	16
CCK272	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40742.65	19444.16	3.2	17
CCK275	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40786.17	19451.23	3.5	15
CCK282	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40786.49	19405.16	3.6	18
CCK285	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40816.79	19369.68	3.3	18
CCK286	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40809.39	19371.38	3.4	20
CCK291	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40842.89	19362.14	3	20

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK300	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40864.78	19349.82	3	22
CCK301	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40877.34	19347.16	3.6	20
CCK305	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40866.39	19382.9	3.4	19
CCK306	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40878.55	19380.16	3.4	18
CCK310	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40942.8	19353.58	3	17
CCK315	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40940.03	19356.94	3.7	18
CCK319	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40914.37	19315.58	3	18
CCK321	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40911.46	19306.15	3	18
CCK322	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40912.81	19298.59	3.2	18
CCK323	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40910.78	19294.51	3.4	18
CCK332	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40957.88	19343.21	3	18
CCK335	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40970.52	19323.8	3.1	18
CCK336	*Ficus microcarpa*	Moraceae	Native	Common	Tree	40965.1	19312.82	8 spread	18
CCK338	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40945.86	19290.73	3.7	18
CCK342	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40931.34	19280.25	3.2	15
CCK347	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	40975.01	19306.23	4	17
CCK361	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41021.69	19271.03	3	15
CCK365	*Ficus microcarpa*	Moraceae	Native	Common	Tree	41017.47	19224.87	3.2 spread	15
CCK368	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	41044.98	19200.55	3.6	14
CCK376	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41068.11	19244.66	3	20
CCK377	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41075.66	19241.28	3	20
CCK380	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41089.31	19238.68	3	15
CCK500	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	41905.939	19028.112	4.5	15
CCK503	*Ficus microcarpa*	Moraceae	Native	Common	Strangler	41985.728	19047.346	15 spread	20
CCK505	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42041.385	19043.288	4	18
CCK518	*Ficus microcarpa*	Moraceae	Native	Common	Strangler	42131.312	19033.407	15 spread	25
CCK524	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42175.704	19024.283	3	20
CCK525	*Ficus microcarpa*	Moraceae	Native	Common	Strangler	42187.872	19030.188	8 spread	20
CCK527	*Dimocarpus lichi*	Sapindaceae	Native	Data Deficient	Tree	42193.667	19025.65	3	20
CCK530	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42214.042	19038.505	3	20
CCK532	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42225.753	19035.193	3.5	20

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK533	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42216.039	19019.732	3.2	20
CCK555	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42331.727	19020.39	3	15
CCK556	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42335.153	19018.819	3	15
CCK571	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42363.659	19032.01	3.5	15
CCK572	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42364.614	19039.171	4.5	18
CCK576	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42373.574	19037.109	4.5	18
CCK587	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42419.087	19030.076	3	15
CCK600	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42452.064	19031.923	3.8	12
CCK606	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42445.434	19055.376	3.2	15
CCK611	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42459.15	19056.701	3	15
CCK617	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42474.065	19043.567	3.5	15
CCK618	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42477.98	19044.196	3	15
CCK622	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42474.652	19050.479	3	15
CCK639	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42534.957	19057.504	3	10
CCK647	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42571.727	19071.978	4.5	12
CCK655	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42651.443	19091.908	3	15
CCK659	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	42668.403	19103.411	3.5	20
CCK660	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42690.56	19110.702	3	15
CCK660A	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	42724.995	19115.609	3	30
CCK678	*Ficus religiosa*	Moraceae	Exotic	Naturalised	Tree	42922.383	19183.053	3.7	10
CCK719	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43211.355	19192.093	4	10
CCK737	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43177.862	19185.432	3	7
CCK740	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43188.945	19186.304	4	8
CCK772	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43234.427	19199.257	4	5
CCK852	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	43015.674	19231.327	3.2	14
CCK877	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	43046.392	19247.336	4	15
CCK914	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	43114.958	19205.801	8	14
CCK922	*Ficus microcarpa*	Moraceae	Native	Common	Strangler	42274.8	18987.416	10 spread	12
CCK923	*Ficus microcarpa*	Moraceae	Native	Common	Strangler	42257.909	18980.317	10 spread	10
CCK924	*Ficus microcarpa*	Moraceae	Native	Common	Strangler	41907.107	19029.19	5 spread	16
CCK955	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	43262.261	19265.457	3.6 spread	16

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK991	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	43680.079	19311.526	3	20
CCK992	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	43677.739	19290.154	3	20
TR0285	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	45285.49468	19024.22044	3	16
TR0371	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	45325.74161	18997.99189	6 spread	9
TR0374	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	45285.39782	19005.07935	4 spread	8
TR0376	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	45210.68353	19018.93176	5 spread	8
TR0386	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	45124.45251	19035.92203	4 spread	7
TR0392	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	44924.13277	19076.02233	3	8
TR1062	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	45108.51651	19052.69219	4	25

Appendix E

List and location of other specimens of value

Site	Species	Family	Origin	Status	Habit	Girth/Spread (m)	Height	Northing	Easting	Remarks
Study Area	*Bambusa* cf *heterostachya*	Poaceae	Exotic	Cultivated only	Shrub	2.5	6	40734.874	19474.999	-
Study Area	*Bambusa heterostachya*	Poaceae	Exotic	Cultivated only	Shrub	1-2.5	6-8	44726.089	19214.165	Cluster of 5 bamboo clusters.
Adjacent to Study Area	*Falcataria falcataria*	Fabaceae	Exotic	Naturalised	Tree	-	-	45298.099	19053.378	Approximate location. Nest of changeable hawk eagle.
Adjacent to Study Area	*Falcataria falcataria*	Fabaceae	Exotic	Naturalised	Tree	-	-	45230.612	19098.524	Approximate location. Nest of white-bellied sea eagle.

Appendix F

List and location of all tree specimens

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK869	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	43047.734	19234.493	2.3	12
CCK878	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	43043.313	19251.256	1.5	10
CCK990	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	43365.549	19365.039	1	8
CCK994	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	43710.297	19301.652	2.4	20
TR0301	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45250.44236	19024.77564	1.25	14
TR0304	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45270.78834	19020.21365	1.2	16
TR0310	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45338.57152	19001.18623	1.1	10
TR0312	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45344.32141	19001.63158	1.2	15
TR0313	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45348.74429	19005.19286	1.1	16
TR0337	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45462.19479	18991.62005	1.3	10
TR0367	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45489.92048	18982.68481	2.2	9
TR1063	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45108.96833	19052.54753	1.1	16
TR1222	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	44962.83477	19077.40362	1.6	15
TR1230	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	44987.49321	19071.50635	1	15
TR1231	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	44994.90163	19074.73388	1.1	18
TR1234	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45003.41601	19071.84076	1.4	12
TR1236	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45010.27168	19071.28457	1.1	15
TR1244	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45032.93986	19063.05023	1.2	14
TR1245	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45047.97816	19060.3799	1.4	18
TR1246	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45055.71839	19061.27046	1.2	16
TR1247	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45059.25658	19067.39128	1	16
TR1248	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45061.02581	19066.50106	1.3	18
TR1249	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45073.74205	19063.27422	1.35	14
TR1250	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45073.96318	19063.94194	1.35	15
TR1607	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45124.1647	19051.36844	1.2	18
TR1608	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45131.57327	19050.14456	1.2	16
TR1609	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45130.02518	19051.36864	1.1	16
TR1610	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45129.14047	19054.4846	2	16
TR1611	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45136.88083	19051.36888	1.2	16
TR1613	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45149.48645	19049.81133	1	16
TR1615	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45179.78442	19038.12742	1.5	15
TR1616	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45185.20251	19040.90974	1.1	16
TR1617	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45189.51497	19039.90832	1.6	16
TR1620	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45200.57274	19032.45259	1.2	16
TR1621	*Acacia auriculiformis*	Fabaceae	Exotic	Naturalised	Tree	45201.56802	19029.44792	1.8	18
CCK1834	*Adenanthera pavonina*	Fabaceae	Exotic	Naturalised	Tree	42257.869	18938.812	2.5	12

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK1832	*Andira inermis*	Fabaceae	Exotic	Casual	Tree	42273.214	18938.298	1.1	10
CCK1833	*Andira inermis*	Fabaceae	Exotic	Casual	Tree	42271.074	18938.206	1	10
CCK120	*Artocarpus altilis*	Moraceae	Exotic	Casual	Tree	40498.368	19572.154	3.7	16
CCK121	*Artocarpus altilis*	Moraceae	Exotic	Casual	Tree	40501.043	19572.96	1.4	12
CCK140	*Artocarpus altilis*	Moraceae	Exotic	Casual	Tree	40586.64002	19510.90713	2.7	17
CCK141	*Artocarpus altilis*	Moraceae	Exotic	Casual	Tree	40587.91004	19515.71479	1.65	17
CCK142	*Artocarpus altilis*	Moraceae	Exotic	Casual	Tree	40582.31	19511.08505	1.8	16
CCK143	*Artocarpus altilis*	Moraceae	Exotic	Casual	Tree	40592.72997	19513.13307	2.9	16
CCK147	*Artocarpus altilis*	Moraceae	Exotic	Casual	Tree	40603.90997	19510.34012	1.7	10
CCK148	*Artocarpus altilis*	Moraceae	Exotic	Casual	Tree	40604.91001	19510.56273	1.95	17
CCK1738	*Artocarpus altilis*	Moraceae	Exotic	Casual	Tree	41746.552	19092.427	3.3	15
CCK1741	*Artocarpus altilis*	Moraceae	Exotic	Casual	Tree	41761.294	19065.544	1.6	15
CCK1742	*Artocarpus altilis*	Moraceae	Exotic	Casual	Tree	41757.773	19063.955	3	15
CCK1743	*Artocarpus altilis*	Moraceae	Exotic	Casual	Tree	41744.012	19066.365	2.5	15
CCK1744	*Artocarpus altilis*	Moraceae	Exotic	Casual	Tree	41739.773	19066.346	3.5	15
CCK538	*Artocarpus altilis*	Moraceae	Exotic	Casual	Tree	42254.051	19037.176	1	12
CCK540	*Artocarpus altilis*	Moraceae	Exotic	Casual	Tree	42249.796	19027.181	1.3	15
CCK542	*Artocarpus altilis*	Moraceae	Exotic	Casual	Tree	42252.528	19022.789	1.1	18
CCK077	*Artocarpus heterophyllus*	Moraceae	Exotic	Casual	Tree	40441.841	19658.592	1.05	12
CCK133	*Artocarpus heterophyllus*	Moraceae	Exotic	Casual	Tree	40543.006	19535.051	1.1	6
CCK135	*Artocarpus heterophyllus*	Moraceae	Exotic	Casual	Tree	40558.518	19544.181	1.1	8
CCK146	*Artocarpus heterophyllus*	Moraceae	Exotic	Casual	Tree	40593.29998	19503.1061	1.1	8
CCK252	*Artocarpus heterophyllus*	Moraceae	Exotic	Casual	Tree	40642.75	19521.7	1.05	9
CCK515	*Artocarpus heterophyllus*	Moraceae	Exotic	Casual	Tree	42124.687	19043.39	1	10
CCK667	*Artocarpus heterophyllus*	Moraceae	Exotic	Casual	Tree	42900.568	19173.691	1	7
CCK670	*Artocarpus heterophyllus*	Moraceae	Exotic	Casual	Tree	42899.977	19177.821	1	7
CCK672	*Artocarpus heterophyllus*	Moraceae	Exotic	Casual	Tree	42909.381	19181.437	1	10
CCK683	*Artocarpus heterophyllus*	Moraceae	Exotic	Casual	Tree	42930.324	19186.114	1	10
CCK870	*Artocarpus heterophyllus*	Moraceae	Exotic	Casual	Tree	43049.523	19232.085	1	10
CCK871	*Artocarpus heterophyllus*	Moraceae	Exotic	Casual	Tree	43049.064	19234.377	1	10
CCK873	*Artocarpus heterophyllus*	Moraceae	Exotic	Casual	Tree	43039.116	19231.533	1	8
CCK882	*Artocarpus heterophyllus*	Moraceae	Exotic	Casual	Tree	43055.985	19255.881	1	10
CCK884	*Artocarpus heterophyllus*	Moraceae	Exotic	Casual	Tree	43056.539	19245.645	1.5	8
CCK885	*Artocarpus heterophyllus*	Moraceae	Exotic	Casual	Tree	43052.84	19238.822	1	8
CCK886	*Artocarpus heterophyllus*	Moraceae	Exotic	Casual	Tree	43051.797	19228.479	1	8
CCK891	*Artocarpus heterophyllus*	Moraceae	Exotic	Casual	Tree	43095.015	19249.545	1	10

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK027	*Averrhoa carambola*	Oxalidaceae	Exotic	Casual	Tree	40675.476	19581.416	1.1	6
CCK028	*Averrhoa carambola*	Oxalidaceae	Exotic	Casual	Tree	40677.475	19582.11	1	6
CCK032	*Averrhoa carambola*	Oxalidaceae	Exotic	Casual	Tree	40703.182	19569.267	1.4	5
CCK1115	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43290.558	19221.674	1.5	16
CCK1117	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43305.656	19230.508	1.3	16
CCK1117	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43299.115	19226.365	1.7	16
CCK1118	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43307.1	19231.668	1.5	16
CCK1238	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43949.14	19207.97	1	10
CCK1242	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43960.84	19195.1	1.2	16
CCK1243	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43991.27	19204.11	1	16
CCK1245	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44000.01	19205.57	1.4	16
CCK1246	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44004.72	19198.12	1.1	16
CCK1247	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44011.55	19206.64	1.4	16
CCK1248	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44012.87	19207.61	1	10
CCK1249	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44015.8	19205.6	1.1	16
CCK1250	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44019.71	19205.35	1	16
CCK1251	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44021.72	19200.49	1.4	16
CCK1252	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44032.69	19198.26	1.3	20
CCK1253	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44034.82	19199.58	2.8	20
CCK1258	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44043.76	19201.92	1.8	18
CCK1259	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44063.95	19185.59	2	16
CCK1260	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44069.67	19188.67	1	16
CCK1341	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43478.51	19236.73	1.3	10
CCK1387	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43573.4	19258.14	3.8	12
CCK1398	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43594.91	19253.56	2	12
CCK1400	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43601.93	19251.14	1.6	12
CCK1403	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43604.37	19253.29	1.3	10
CCK1413	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43634.4	19246.84	1.4	16
CCK1419	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43649.52	19252.16	1.1	16
CCK1420	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43644.99	19240.58	1.3	14
CCK1423	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43662.42	19247.67	1.4	16
CCK1425	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43747.62	19238.16	1.3	18
CCK1426	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43742.2	19244.39	1.6	18
CCK1527	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43808.822	19224.089	1.6	12
CCK1530	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43890.219	19210.731	1.6	12
CCK1531	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43879.716	19209.853	1.8	15

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK1532	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43880.676	19210.702	1.6	12
CCK1533	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43882.144	19209.82	1.5	12
CCK1534	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43899.008	19205.645	1.2	12
CCK1535	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43908.673	19206.875	1.8	12
CCK1536	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43912.014	19211.054	1.2	12
CCK1538	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44236.687	19158.129	1.7	15
CCK1539	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44275.079	19149.174	1.4	10
CCK1540	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44274.145	19151.737	1.2	10
CCK1541	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44255.023	19146.735	1	10
CCK1542	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44283.966	19146.886	1	10
CCK1543	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44269.733	19153.09	1	10
CCK1545	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44282.304	19146.404	1	8
CCK1546	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44284.783	19146.64	1.3	12
CCK1547	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44285.015	19147.351	1.1	9
CCK1548	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44286.036	19148.383	1	8
CCK1549	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44295.625	19137.712	1.8	15
CCK1551	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44337.556	19129.92	1.1	14
CCK1552	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44337.677	19128.91	1.6	18
CCK1553	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44338.961	19128.333	1	10
CCK1554	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44345.299	19129.231	2	15
CCK1555	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44350.087	19128.427	1.2	12
CCK1556	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44362.32	19123.432	1.4	14
CCK1557	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44410.11	19112.748	1.3	12
CCK1558	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44577.334	19091.004	1	15
CCK1559	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44581.219	19089.948	1	15
CCK1560	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44578.209	19088.475	1	15
CCK1562	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44703.946	19068.772	1.2	10
CCK1563	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44720.908	19060.423	2.5	14
CCK1564	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44721.239	19064.695	1.9	8
CCK1565	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44729.823	19057.653	1.6	12
CCK1566	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44772.556	19084.355	1.5	15
CCK1567	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44765.935	19055.776	1.6	15
CCK1569	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44782.523	19048.41	1	15
CCK1570	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44787.614	19047.908	2.2	15
CCK1571	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44823.321	19040.546	2	10
CCK1573	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44901.07	19031.119	1.3	15

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK1574	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44944.825	19021.51	1	14
CCK1575	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44946.333	19021.768	1.2	14
CCK1576	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44949.725	19020.064	1	11
CCK1577	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45038.246	19004.022	1.2	10
CCK1579	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45053.855	19001.019	1.3	14
CCK1580	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45057.935	18999.378	1.4	10
CCK1581	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45063.907	18999.811	1	12
CCK1582	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46391.25	19023.41	1.6	10
CCK1583	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46406.08	19015.09	1.4	12
CCK1584	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46409.72	19010.8	1.3	10
CCK1585	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46428.44	19012.77	1.5	12
CCK1586	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46452.38	19006.83	1.5	10
CCK1587	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46479.19	18992.64	1.1	12
CCK1588	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46483.32	18980.54	1	8
CCK1589	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46486.7	18990.43	1	10
CCK1590	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46488.95	18999.09	1.1	14
CCK1591	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46493.89	19001.04	1.1	5
CCK1593	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46497.06	18994.26	1	12
CCK1594	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46507.59	18987.1	1.6	16
CCK1595	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46514.62	18994.29	1.4	14
CCK1596	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46522.24	18990.16	1	15
CCK1597	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46522	18988.94	1.9	10
CCK1598	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46538.26	18985.48	2.3	16
CCK1600	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46341.62	19038.12	1.8	18
CCK1601	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46346.94	19041.63	1.2	7
CCK1602	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46338.76	19037.51	1.9	10
CCK1603	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46321.75	19036	1.1	10
CCK1604	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46310.04	19032.2	1	10
CCK1605	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46303.56	19035.22	1	12
CCK1606	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46295.09	19027.71	1	8
CCK1607	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46291.72	19034.79	1	8
CCK1608	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46286.46	19024.96	1	10
CCK1609	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46276.77	19022.46	1.4	9
CCK1610	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46275.7	19017.75	1.5	12
CCK1611	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46258.14	19014.45	1	10
CCK1612	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46251.3	19010.32	1	8

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK1613	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46226.17	18993.73	1.4	12
CCK1614	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46134.81	18968.47	1.3	12
CCK1615	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46141.15	18970.33	1	7
CCK1616	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46124.95	18967.74	2.2	12
CCK1617	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46131.68	18975.66	1.5	12
CCK1621	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46028.73	18928.17	1	12
CCK1622	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46010.93	18917.52	2	12
CCK1623	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46009.86	18919.18	1.1	8
CCK1624	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45946.88	18904.33	1.3	12
CCK1625	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45946.02	18894.3	1.2	12
CCK1626	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45941.58	18905.5	1.1	12
CCK1627	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45941.15	18882.19	1.3	12
CCK1628	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45854.68	18851.87	1.6	14
CCK1629	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45833.53	18857.43	1.1	12
CCK1630	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45805.44	18858.68	2.1	12
CCK1631	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45816.7	18848.78	1.3	12
CCK1632	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45776.77	18861.07	1.2	12
CCK1633	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45782.28	18886.67	1.1	12
CCK1634	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45724.78	18879.98	1	10
CCK1635	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45716.25	18882.79	1.4	12
CCK1636	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45715.04	18876.14	1	12
CCK1637	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45719.01	18872.81	1	12
CCK1638	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45724.09	18871.74	1.8	14
CCK1639	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45701.79	18891.14	1.6	10
CCK1640	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45679.63	18888.4	1.1	12
CCK1641	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45681.67	18886.48	1.6	10
CCK1642	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45658.07	18891.23	1.2	12
CCK1643	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45657.43	18891.25	1	10
CCK1644	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45643.53	18898.07	1	10
CCK1645	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45647.18	18893.88	1.2	10
CCK1646	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45652.32	18903.84	1	12
CCK1647	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45649.7	18898.34	1	12
CCK1648	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45642.77	18894.79	1.3	12
CCK1650	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45609.72	18889.62	1.4	10
CCK1651	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45612.16	18901.53	1	10
CCK1652	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45573.56	18900.83	1	9

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK1653	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45575.4	18905.84	1	10
CCK1654	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45578.37	18904.43	1	10
CCK1655	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45560.9	18904.82	1	10
CCK1656	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45555.21	18897.97	1	10
CCK1657	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45473.53	18915.27	1	10
CCK1660	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45363.89	18942.8	1.4	8
CCK1661	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45366.69	18947.56	1.4	8
CCK1662	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45324.67	18939.08	1.4	14
CCK1663	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45339.4	18939.18	1.2	12
CCK1664	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45343.54	18945.37	1.1	8
CCK1665	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45318.46	18952.01	1.2	10
CCK1666	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45285.74	18956.28	2	14
CCK1667	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45265.62	18961.71	1.5	14
CCK1668	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45267.62	18959.67	1.4	14
CCK1669	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45277.04	18955.34	1.4	16
CCK1670	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45252.09	18960.68	1.9	14
CCK1672	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45130.3	18979.17	1.2	16
CCK1673	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45121.57	18992.28	1.3	16
CCK1675	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45119.46	18985.14	2.1	16
CCK1676	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45080.56	18999.72	2.3	16
CCK1678	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46393.488	19072.278	1.5	8
CCK1679	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46359.985	19076.829	1.9	10
CCK1682	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46303.474	19073.467	1.5	12
CCK1684	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46267.513	19062.157	1.2	8
CCK1685	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46266.033	19049.487	1	6
CCK1687	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46254.662	19053.241	1.1	6
CCK1688	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46249.883	19053.569	1	6
CCK1689	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46248.952	19050.344	1	6
CCK1690	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46243.196	19052.125	1.2	6
CCK1691	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46239.253	19052.071	1.7	12
CCK1693	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46225.49	19047.948	1.3	6
CCK1694	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46218.231	19045.358	1.5	7
CCK1695	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46209.251	19042.403	1	7
CCK1696	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46204.666	19042.41	1.2	7
CCK1697	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46200.069	19039.337	1.8	15
CCK1698	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46189.85	19036.004	1.3	7

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK1700	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46182.096	19033.702	1.3	8
CCK1701	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46178.115	19031.382	1.1	8
CCK1702	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46170.961	19028.642	1.5	10
CCK1705	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46138.372	19016.821	1.1	6
CCK1706	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46128.44	19016.827	1.4	10
CCK1707	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46124.666	19012.552	1.5	8
CCK1708	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46118.736	19008.035	1	6
CCK1711	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46102.45	19002.708	1.2	6
CCK1713	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46085.922	18992.868	1.3	10
CCK1714	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46077.882	18990.175	1.8	15
CCK1715	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46067.824	18988.807	1.1	6
CCK1717	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46052.349	18985.687	1.3	12
CCK1718	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46043.825	18982.937	1.2	12
CCK1719	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46037.641	18980.443	1.2	7
CCK1720	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46025.571	18977.994	1.3	8
CCK1721	*Avicennia alba*	Acanthaceae	Native	Common	Tree	46014.028	18974.043	1.1	8
CCK1722	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45999.654	18964.667	1.4	6
CCK1723	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45994.267	18963.079	1.3	6
CCK1725	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45975.38	18956.873	1.3	7
CCK1726	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45967.917	18954.367	1.5	7
CCK2507	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44068.37	19203.84	1.5	16
CCK2508	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44069.01	19193.3	1.7	14
CCK2543	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44395.2	19151.13	1	12
CCK2544	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44401.27	19139.73	1.3	20
CCK2555	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44468.45	19136.46	1.3	16
CCK2556	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44463.21	19137.89	1.9	20
CCK2559	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44544.5	19120.42	1.1	18
CCK2560	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44542.48	19106.27	1	16
CCK2561	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44563.21	19114.94	1.5	10
CCK2563	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44590.62	19093.29	1	12
CCK2564	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44618.48	19105.32	1.5	18
CCK2601	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45577.29	18930.22	1.3	16
CCK2605	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45639.18	18948.6	1	10
CCK2606	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45652.06	18944.73	1	12
CCK2608	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45649.34	18942.85	1	16
CCK2609	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45649.23	18942.18	1.2	16

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK2610	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45657.41	18931.94	2.6	16
CCK2611	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45668.47	18930.5	1.2	14
CCK2612	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45679.39	18932.5	1.4	14
CCK2613	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45680.8	18929.44	1.4	14
CCK2614	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45693.57	18922.99	1.4	14
CCK2615	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45695.53	18928.15	1.6	12
CCK2616	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45711.34	18926.59	1.6	12
CCK2617	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45743.35	18916.99	1.5	12
CCK2618	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45746.21	18915.93	1.2	12
CCK2619	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45752.69	18914.75	1.4	10
CCK2620	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45754.13	18914.46	1.6	12
CCK2621	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45762.44	18914.2	1	6
CCK2622	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45769.51	18910.08	1.1	12
CCK2623	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45780.13	18909.41	2.4	12
CCK2624	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45790.6	18903.09	1.4	16
CCK2625	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45796.1	18905.8	1	10
CCK2626	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45808.38	18903.35	1.7	12
CCK2628	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45805.06	18901.76	1.3	12
CCK2629	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45820.32	18913.81	1.8	14
CCK2630	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45829.82	18910.74	1.4	16
CCK2631	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45839.43	18910.71	1.7	10
CCK2632	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45843.81	18916.17	1.4	12
CCK2633	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45846.6	18916.91	1.2	12
CCK2634	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45852.01	18908.58	2.8	16
CCK2635	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45860.63	18911.14	1.1	12
CCK2636	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45859.33	18917.93	1.2	16
CCK2637	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45871.62	18917.23	1.4	18
CCK2638	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45874.9	18921.64	1	5
CCK2639	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45875.15	18923.92	1.3	12
CCK2640	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45906.9	18947.11	1.3	10
CCK2641	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45908.77	18938.42	1.2	10
CCK2642	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45910.27	18938.38	1.3	14
CCK2643	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45919.45	18936.5	1.5	14
CCK2644	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45921.14	18936.7	1.2	8
CCK2645	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45920.26	18938.56	1.2	14
CCK2646	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45930.44	18933	1.3	18

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK2647	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45933.64	18935.56	1.3	10
CCK745	*Avicennia alba*	Acanthaceae	Native	Common	Tree	43196.264	19191.35	1	12
TR0369	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45454.28811	18973.13528	1.8	16
TR0373	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45314.71487	18997.19025	1.7	12
TR0375	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45222.52901	19012.25506	1.2	10
TR0377	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45210.79593	19017.21797	1.1	14
TR0378	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45185.7957	19016.81647	1.5	16
TR0379	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45182.5629	19020.8115	1.2	16
TR0381	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45154.22559	19027.52102	1.1	18
TR0382	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45145.83156	19025.97386	1.1	18
TR0383	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45141.18536	19033.79706	1.3	18
TR0384	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45132.80009	19031.59332	1.2	18
TR0387	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45048.91567	19046.15765	2	18
TR0388	*Avicennia alba*	Acanthaceae	Native	Common	Tree	45021.39067	19049.07237	1.4	16
TR0389	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44995.4236	19054.0348	1.4	16
TR0390	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44968.72429	19053.0323	1.2	12
TR0391	*Avicennia alba*	Acanthaceae	Native	Common	Tree	44937.86611	19062.33469	1.5	18
CCK1568	*Avicennia officinalis*	Acanthaceae	Native	Common	Tree	44780.751	19049.924	1.4	10
CCK1578	*Avicennia officinalis*	Acanthaceae	Native	Common	Tree	45037.378	19005.395	1.1	8
CCK1619	*Avicennia officinalis*	Acanthaceae	Native	Common	Tree	46079.95	18952.49	1.3	5
CCK1592	*Avicennia rumphiana*	Acanthaceae	Native	Common	Tree	46496.19	18994.01	2.2	10
CCK1618	*Avicennia rumphiana*	Acanthaceae	Native	Common	Tree	46109.77	18959.9	1.3	8
CCK1649	*Avicennia rumphiana*	Acanthaceae	Native	Common	Tree	45630.89	18891.69	1.5	6
CCK1658	*Avicennia rumphiana*	Acanthaceae	Native	Common	Tree	45364.15	18933.45	1.4	8
CCK2558	*Avicennia rumphiana*	Acanthaceae	Native	Common	Tree	44534.21	19104.96	1	8
TR0385	*Avicennia rumphiana*	Acanthaceae	Native	Common	Tree	45132.30357	19032.72841	1.2	9
CCK501	*Azadirachta indica*	Meliaceae	Exotic	Casual	Tree	41980.651	19065.997	1.3	12
CCK813	*Azadirachta indica*	Meliaceae	Exotic	Casual	Tree	42970.398	19212.267	1	12
CCK126	*Baccaurea motleyana*	Phyllanthaceae	Native	Critically endangered	Tree	40509.783	19568.106	1.4	13
CCK1300	*Cerbera odollam*	Apocynaceae	Native	Vulnerable	Tree	43309.01	19201.63	1.1	4
CCK1502	*Cerbera odollam*	Apocynaceae	Native	Vulnerable	Tree	42917.167	19091.715	1	6
CCK1505	*Cerbera odollam*	Apocynaceae	Native	Vulnerable	Tree	42967.46	19106.045	0.45	6
CCK138	*Chukrasia tabularis*	Meliaceae	Exotic	Cultivated Only	Tree	40561.224	19501.351	1	6
CCK800	*Cinnamomum iners*	Lauraceae	Native	Common	Tree	42954.459	19214.044	1.3	8
CCK921	*Cinnamomum iners*	Lauraceae	Native	Common	Tree	42528.638	19007.941	1	8
CCK504	*Claoxylon indicum*	Euphorbiaceae	Native	Common	Tree	42022.545	19056.39	1	8

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK920	*Claoxylon indicum*	Euphorbiaceae	Native	Common	Tree	42553.662	19017.93	1	8
CCK663	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42882.325	19179.298	1	8
CCK664	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42886.093	19178.75	1	8
CCK665	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42889.988	19179.417	1	8
CCK666	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42894.514	19182.177	1	10
CCK668	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42899.92	19180.665	1.1	10
CCK669	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42898.114	19185.472	1	10
CCK671	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42906.313	19189.665	1	10
CCK673	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42913.614	19187.062	1	8
CCK674	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42914.575	19193.671	1	10
CCK675	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42918.651	19189.719	1	12
CCK676	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42915.13	19191.466	1	12
CCK677	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42917.108	19194.408	1	12
CCK679	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42922.907	19189.977	1	12
CCK680	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42921.39	19195.832	1	10
CCK681	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42922.898	19197.852	1	8
CCK682	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42925.919	19193.636	1	10
CCK684	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42930.556	19188.136	1	10
CCK685	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42930.13	19194.265	1	10
CCK686	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42927.39	19198.845	1	10
CCK687	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42931.252	19200.128	1	10
CCK688	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42935.215	19194.654	1	10
CCK689	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42935.397	19196.521	1	10
CCK690	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42937.151	19200.018	1	10
CCK692	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42940.991	19198.763	1	10
CCK693	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42940.832	19192.103	1	10
CCK694	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42946.974	19195.977	1	10
CCK695	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42951.332	19198.048	1	10
CCK696	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42948.036	19200.511	1	10
CCK697	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42951.985	19201.737	1	10
CCK698	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42951.861	19201.536	1	10
CCK801	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42964.935	19209.184	1.1	10
CCK802	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42955.245	19203.258	1	8
CCK803	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42956.457	19201.984	1.3	10
CCK804	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42957.76	19199.474	1.1	10
CCK805	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42960.225	19189.254	1.4	8

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK806	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42961.378	19212.839	1.3	7
CCK807	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42963.053	19208.931	1.1	11
CCK807A	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42956.174	19234.876	1	10
CCK807B	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42953.119	19234.051	1	10
CCK807C	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42944.427	19230.572	1	10
CCK807D	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42937.077	19228.143	1	10
CCK807E	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42935.682	19232.479	1	10
CCK807F	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42932.677	19225.073	1	10
CCK807G	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42922.803	19222.092	1	10
CCK807H	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42917.029	19219.262	1	10
CCK808	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42962.174	19204.206	1	12
CCK809	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42964.309	19203.217	1.1	7
CCK810	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42963.369	19208.777	1	12
CCK811	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42970.441	19211.993	1.1	12
CCK812	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42970.727	19215.276	1.4	12
CCK814	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42969.449	19209.398	1	12
CCK815	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42977.297	19195.798	1.4	8
CCK816	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42979.309	19199.131	1.5	8
CCK817	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42974.904	19209.395	1	12
CCK818	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42975.303	19215.483	1	12
CCK819	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42982.56	19214.373	1	8
CCK820	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42978.62	19216.718	1	12
CCK821	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42976.095	19212.263	1	12
CCK822	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42979.176	19211.551	1	11
CCK823	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42985.956	19199.893	1.3	7
CCK824	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42980.037	19212.434	1	12
CCK825	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42981.027	19214.883	1.1	12
CCK826	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42984.56	19220.779	1	12
CCK827	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42983.611	19213.446	1	12
CCK828	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42996.477	19204.129	1.1	7
CCK829	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42995.68	19201.681	1.1	7
CCK830	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42989.179	19220.134	1	12
CCK831	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42992.071	19224.295	1	13
CCK832	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42993.309	19226.07	1.1	12
CCK833	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42996.214	19223.572	1	12
CCK834	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42995.656	19220.031	1	8

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK835	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42997.081	19217.253	1	12
CCK836	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42995.725	19212.408	1	7
CCK837	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42998.328	19221.234	1	12
CCK838	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42999.227	19225.221	1	12
CCK839	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42997.212	19233.285	1	8
CCK840	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43004.509	19221.504	1	3
CCK841	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43002.442	19223.831	1	7
CCK842	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43005.354	19221.176	1	10
CCK843	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43007.803	19223.816	1	10
CCK844	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43003.08	19229.102	1	12
CCK845	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43000.023	19235.049	1	8
CCK846	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43004.582	19235.281	1	12
CCK847	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43006.565	19231.969	1	8
CCK848	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43009.844	19227.068	1	10
CCK849	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43009.271	19218.751	1	10
CCK850	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43011.517	19222.837	1	12
CCK853	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43011.688	19238.107	1	10
CCK854	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43013.88	19238.568	1	10
CCK855	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43016.743	19238.72	1	10
CCK856	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43019.012	19231.82	1	10
CCK857	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43018.543	19225.465	1	10
CCK858	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43020.502	19222.267	1	10
CCK861	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43028.471	19230.807	1	10
CCK862	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43025.263	19238.909	1	10
CCK863	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43026.959	19244.86	1	12
CCK864	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43028.666	19243.702	1	10
CCK865	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43034.961	19226.461	1	10
CCK866	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43040.963	19221.431	1	8
CCK867	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43040.918	19227.03	1	10
CCK868	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43047.581	19228.901	1	10
CCK874	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43040.401	19241.751	1	12
CCK875	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43034.614	19249.475	1	12
CCK876	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43044.559	19249.787	1	10
CCK879	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43047.705	19251.735	1	10
CCK880	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43052.848	19256.406	1	12
CCK881	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43057.991	19256.661	1	10

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK881A	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43052.203	19266.923	1	10
CCK881B	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43045.868	19274.396	1	10
CCK881C	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43045.133	19275.535	1	10
CCK881D	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43042.486	19273.908	1	10
CCK881E	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43035.722	19270.166	1	10
CCK881F	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43033.016	19268.224	1	10
CCK881G	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43028.365	19269.334	1	10
CCK881H	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43025.086	19265.97	1	10
CCK881I	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43016.374	19264.123	1	10
CCK881J	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43014.959	19260.271	1	10
CCK881K	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43009.754	19257.088	1	10
CCK881L	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43006.574	19256.548	1	6
CCK881M	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43023.48	19243.396	1	8
CCK881N	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43002.757	19256.989	1	6
CCK881O	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42994.993	19251.952	1	8
CCK881P	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42995.913	19247.955	1	8
CCK881Q	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42992.794	19250.061	1	10
CCK881R	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42989.826	19248.868	1	10
CCK881S	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43005.895	19235.327	1	10
CCK881T	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42978.637	19242.134	1	10
CCK881U	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42971.971	19241.886	1	10
CCK881V	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42968.642	19237.746	1	10
CCK881W	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42965.001	19238.762	1	10
CCK881X	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42960.162	19238.847	1	8
CCK881Y	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42961.685	19238.19	1	8
CCK881Z	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	42956.913	19235.053	1	10
CCK883	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43048.236	19248.901	1.1	8
CCK887	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43056.711	19220.991	1	10
CCK888	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43069.076	19227.053	1.2	8
CCK894	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43120.803	19244.249	1	8
CCK895	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43118.909	19239.75	1	8
CCK896	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43126.925	19245.2	1	8
CCK897	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43139.469	19262.463	1.1	12
CCK898	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43141.381	19263.722	1	14
CCK899	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43143.111	19263.574	1	14
CCK900	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43142.984	19251.938	1	8

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK901	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43139.787	19248.338	1	8
CCK902	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43151.818	19257.07	1.2	10
CCK903	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43151.229	19267.872	1	12
CCK904	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43155.262	19269.258	1	12
CCK905	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43165.753	19257.095	1.2	10
CCK906	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43169.965	19271.453	1	14
CCK908	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43180.341	19259.259	1.2	8
CCK909	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43182.07	19262.024	1	8
CCK910	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43188.894	19263.788	1.1	8
CCK911	*Cocos nucifera*	Arecaceae	Exotic	Naturalised	Tree	43187.138	19263.505	1	8
CCK699	*Couroupita guianensis*	Lecythidaceae	Exotic	Cultivated only	Tree	42955.419	19208.5	1.5	12
CCK1741D	*Cratoxylum cochinchinense*	Hypericaceae	Native	Endangered	Tree	41832.413	19135.256	1.4	10
CCK1741E	*Cratoxylum cochinchinense*	Hypericaceae	Native	Endangered	Tree	41839.19	19139.428	1.4	10
CCK034	*Dimocarpus lichi*	Sapindaceae	Native	Data Deficient	Tree	40608.04	19519.044	1.65	14
CCK035	*Dimocarpus lichi*	Sapindaceae	Native	Data Deficient	Tree	40605.939	19517.802	1.1	13
CCK036	*Dimocarpus lichi*	Sapindaceae	Native	Data Deficient	Tree	40603.396	19520.982	1.8	14
CCK188	*Dimocarpus lichi*	Sapindaceae	Native	Data Deficient	Tree	40792.00001	19355.76814	2	12
CCK527	*Dimocarpus lichi*	Sapindaceae	Native	Data Deficient	Tree	42193.667	19025.65	3	20
CCK1230A	*Dolichandrone spathacea*	Bignoniaceae	Native	Critically endangered	Tree	43706.13	19259.05	0.4	3
CCK1677	*Dolichandrone spathacea*	Bignoniaceae	Native	Critically endangered	Tree	45070.08	18990.21	1.3	8
CCK110	*Durio zibethinus*	Malvaceae	Exotic	Casual	Tree	40474.127	19596.364	1.6	16
CCK113	*Durio zibethinus*	Malvaceae	Exotic	Casual	Tree	40481.057	19591.985	1.3	16
CCK122	*Durio zibethinus*	Malvaceae	Exotic	Casual	Tree	40497.442	19567.965	1.5	16
CCK127	*Durio zibethinus*	Malvaceae	Exotic	Casual	Tree	40516.986	19561.588	2.8	17
CCK246	*Durio zibethinus*	Malvaceae	Exotic	Casual	Tree	40634.93	19511.6	1.4	14
CCK510	*Durio zibethinus*	Malvaceae	Exotic	Casual	Tree	42075.731	19045.471	2	20
CCK1075A	*Elaeis guineensis*	Arecaceae	Exotic	Cultivated only	Tree	41141.05	19282.159	1.3	10
CCK547	*Elaeis guineensis*	Arecaceae	Exotic	Cultivated only	Tree	42319.035	19034.631	2	7
CCK691	*Elaeis guineensis*	Arecaceae	Exotic	Cultivated only	Tree	42941.047	19203.064	2	10
CCK1220	*Excoecaria agallocha*	Euphorbiaceae	Native	Common	Tree	43848.76	19220.83	2	10
CCK1255	*Excoecaria agallocha*	Euphorbiaceae	Native	Common	Tree	44051.08	19200.66	2.2	8
CCK1256	*Excoecaria agallocha*	Euphorbiaceae	Native	Common	Tree	44052.03	19201.4	1.3	8
CCK1257	*Excoecaria agallocha*	Euphorbiaceae	Native	Common	Tree	44049.36	19206.12	2.8	8
CCK1528	*Excoecaria agallocha*	Euphorbiaceae	Native	Common	Tree	43821.116	19221.473	1.5	12
CCK1544	*Excoecaria agallocha*	Euphorbiaceae	Native	Common	Tree	44286.416	19139.035	1.5	12
CCK1572	*Excoecaria agallocha*	Euphorbiaceae	Native	Common	Tree	44853.686	19038.086	1.8	15

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK1659	*Excoecaria agallocha*	Euphorbiaceae	Native	Common	Tree	45373.66	18937.56	1.5	8
CCK1674	*Excoecaria agallocha*	Euphorbiaceae	Native	Common	Tree	45128.01	18989.12	1.8	10
CCK2501	*Excoecaria agallocha*	Euphorbiaceae	Native	Common	Tree	44064.38	19185.19	2.3	10
CCK2504	*Excoecaria agallocha*	Euphorbiaceae	Native	Common	Tree	44069.61	19205.17	1.8	14
CCK2513	*Excoecaria agallocha*	Euphorbiaceae	Native	Common	Tree	44104.3	19199.02	1.3	10
CCK2515	*Excoecaria agallocha*	Euphorbiaceae	Native	Common	Tree	44210.04	19185.36	1.2	6
CCK2517	*Excoecaria agallocha*	Euphorbiaceae	Native	Common	Tree	44217.67	19184.89	2.3	15
CCK2519	*Excoecaria agallocha*	Euphorbiaceae	Native	Common	Tree	44218	19181.81	1.6	8
CCK2528	*Excoecaria agallocha*	Euphorbiaceae	Native	Common	Tree	44302.92	19170.54	3.4	10
CCK2531	*Excoecaria agallocha*	Euphorbiaceae	Native	Common	Tree	44318.83	19173.82	3.2	8
CCK2553	*Excoecaria agallocha*	Euphorbiaceae	Native	Common	Tree	44466.95	19132.84	3.6	15
CCK2602	*Excoecaria agallocha*	Euphorbiaceae	Native	Common	Tree	45600.38	18947.15	1.3	6
TR0309	*Excoecaria agallocha*	Euphorbiaceae	Native	Common	Tree	45320.76884	19003.96774	1	10
TR0372	*Excoecaria agallocha*	Euphorbiaceae	Native	Common	Tree	45326.88879	18999.01576	1.8	10
TR0380	*Excoecaria agallocha*	Euphorbiaceae	Native	Common	Tree	45173.16731	19018.27387	1.3	6
CCK1000	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	43845.012	19275.313	2.5	20
CCK1002	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	43841.667	19276.774	3	20
CCK1003	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	43808.735	19271.229	3	20
CCK1004	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	43815.124	19271.699	4	20
CCK1430	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44747.477	19142.452	2.1	25
CCK1431	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44752.61	19155.521	2.5	25
CCK1432	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44776.91	19141.326	2.5	25
CCK1433	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44778.55	19140.26	3.2	25
CCK1435	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44803.763	19152.175	3	25
CCK1438	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44846.538	19145.618	2.5	25
CCK1439	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44853.709	19141.781	2.8	25
CCK1440	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44860.544	19145.369	3	30
CCK1441	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44857.232	19150.411	5	30
CCK1442	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44869.37	19151.423	3.3	30
CCK1444	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44872.848	19192.207	2.5	20
CCK1445	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44854.405	19187.832	2	25
CCK1446	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44841.746	19188.009	1.2	18
CCK1447	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44838.741	19186.477	2	20
CCK1448	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44830.582	19184.057	2.2	30
CCK1449	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44822.989	19184.184	1	25
CCK1450	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44818.477	19180.812	1.8	30

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK1451	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44835.396	19165.998	2.5	30
CCK1452	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44824.686	19161.55	2.5	30
CCK1453	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44820.972	19166.575	1.5	25
CCK1454	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44809.641	19181.144	2	25
CCK1455	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44808.671	19182.733	2.2	30
CCK1456	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44807.071	19180.972	1	20
CCK1457	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44797.486	19177.504	1	25
CCK1458	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44795.953	19178.145	1	25
CCK1459	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44799.02	19175.478	1.2	25
CCK1460	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44802.675	19172.909	2	30
CCK1461	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44802.718	19165.648	2.5	30
CCK1462	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44796.992	19167.474	1.8	20
CCK1463	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44796.56	19166.035	1	20
CCK1464	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44795.46	19169.862	1.2	25
CCK1465	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44795.129	19173.053	1	25
CCK1466	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44794.777	19174.176	1.5	25
CCK1467	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44793.118	19175.381	2	30
CCK1468	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44788.992	19173.054	2.2	30
CCK1620	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	46073.11	18943.79	1.5	10
CCK1838	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44017.072	19265.626	2.2	15
CCK1840	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	43989.852	19234.43	2.8	18
CCK1841	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44032.722	19231.224	2.5	20
CCK1843	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44047.504	19230.293	3.5	20
CCK1844	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44049.448	19228.035	1.2	15
CCK1845	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44058.118	19237.859	3.8	20
CCK1846	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44072.33	19222.742	3.5	20
CCK1847	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44101.051	19213.719	2.8	15
CCK1848	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44146.162	19221.636	3.8	30
CCK1849	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44161.884	19215.023	3	30
CCK1850	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44164.317	19216.803	2.2	20
CCK1852	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44208.627	19190.387	1.8	25
CCK1853	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44246.781	19185.049	1.8	25
CCK1854	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44250.632	19181.01	1.5	25
CCK1856	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44295.814	19173.811	1	12
CCK1858	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44488.994	19169.419	1.5	18
CCK1859	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44484.071	19174.273	3	25

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK1860	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44495.192	19175.703	3	30
CCK1862	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44500.967	19166.341	3.8	20
CCK1864	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44519.264	19152.134	3.5	30
CCK1865	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44527.384	19155.856	3.5	30
CCK1866	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44533.471	19155.043	2.8	18
CCK1867	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44534.461	19151.873	2.5	18
CCK1868	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44535.141	19145.866	1.8	18
CCK1869	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44541.936	19147.447	3.5	30
CCK1870	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44548.609	19158.122	3.8	30
CCK1871	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44557.35	19151.062	3.8	25
CCK1872	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44555.163	19145.512	2.5	25
CCK1873	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44557.021	19139.875	2	25
CCK1874	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44549.855	19138.2	2	18
CCK1875	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44567.807	19137.183	3.5	30
CCK1876	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44580.212	19136.567	3.8	30
CCK1877	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44590.738	19161.815	2	20
CCK1878	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44599.94	19162.229	2.2	25
CCK1879	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44609.229	19154.707	3	25
CCK1880	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44630.209	19160.769	2.5	25
CCK1881	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44645.955	19169.424	3.2	25
CCK1882	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44666.555	19170.86	3.5	25
CCK1883	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44676.102	19173.058	2	25
CCK1884	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44682.374	19171.476	2	25
CCK1885	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44682.541	19161.692	3.8	30
CCK1886	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44693.868	19174.072	4	25
CCK1887	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44707.324	19165.746	3.8	25
CCK1888	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44711.875	19164.418	4.2	25
CCK1889	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44713.737	19131.108	2.5	18
CCK1890	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44713.169	19123.254	3.5	30
CCK1891	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44727.741	19128.184	3.8	30
CCK1892	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44715.338	19121.696	1.5	20
CCK1893	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44714.878	19119.452	2.2	25
CCK1894	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44711.213	19119.771	2	25
CCK1895	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44700.362	19175.221	2.5	25
CCK1896	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44699.824	19173.325	2	25
CCK308A	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44422.838	19166.552	2.5	20

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK321A	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44554.183	19194.216	2.5	25
CCK321B	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44531.213	19196.246	2.5	25
CCK589	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	42427.437	19022.813	1.4	15
CCK659	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	42668.403	19103.411	3.5	20
CCK660A	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	42724.995	19115.609	3	30
CCK726	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	43154.42	19145.658	1.9	20
CCK851	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	43015.916	19222.498	2.1	14
CCK852	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	43015.674	19231.327	3.2	14
CCK860	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	43029.56	19223.527	2.6	14
CCK877	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	43046.392	19247.336	4	15
CCK919	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	42663.976	19055.092	1.3	16
CCK983	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	43351.567	19333.287	1.5	18
CCK984	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	43355.016	19337.035	1.5	18
CCK985	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	43370.467	19316.05	1.5	10
CCK986	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	43369.529	19330.685	1.5	14
CCK992	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	43677.739	19290.154	3	20
CCK993	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	43674.925	19289.837	2.2	20
CCK996	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	43751.903	19280.327	2.4	20
CCK997	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	43755.17	19284.203	2.5	20
CCK998	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	43734.329	19282.478	2.5	20
CCK999	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	43822.648	19287.164	1	10
TR0298	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	45246.9037	19032.23164	1.8	25
TR0302	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	45256.74524	19021.88244	2.5	25
TR0303	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	45257.07701	19020.7696	2	12
TR0317	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	45360.13353	19004.85941	2.2	22
TR0322	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	45375.39291	19004.4148	1.3	18
TR0323	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	45381.58505	19006.19559	1.2	16
TR0324	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	45385.89765	19001.29918	1.5	16
TR0325	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	45386.89285	19000.74279	1.3	16
TR0326	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	45390.09947	19002.18961	1.2	16
TR0327	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	45392.42159	19001.07684	1.6	21
TR0328	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	45395.40712	19000.96566	1.5	21
TR0329	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	45394.63311	19000.40921	1.8	21
TR0370	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	45363.44743	18990.18099	1	18
TR1062	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	45108.51651	19052.69219	4	25
TR1217	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44970.02182	19086.64057	2.8	25

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
TR1219	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44975.88252	19080.40878	2.6	25
TR1220	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44977.09899	19076.29126	1.6	25
TR1221	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44968.14209	19085.41636	2	25
TR1223	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	44969.69007	19087.41955	2.1	25
TR1237	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	45017.79069	19074.06697	1.6	25
TR1238	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	45022.2136	19076.84926	2.5	25
TR1240	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	45030.72796	19074.51256	1.5	22
TR1241	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	45029.73286	19072.28681	1.4	22
TR1242	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	45029.5118	19069.72724	2	20
TR1243	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	45029.84375	19063.38398	1.6	12
TR1612	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	45145.28463	19048.69832	1	25
TR1618	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	45195.15416	19043.91479	1.9	25
TR1619	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	45203.77912	19040.7991	1.6	25
TR1622	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	45230.98086	19033.01008	2.4	25
TR1623	*Falcataria moluccana*	Fabaceae	Exotic	Naturalised	Tree	45241.26466	19023.99632	2.6	25
CCK152	*Ficus benjamina*	Moraceae	Cryptogenic	-	Strangler	40625.02997	19481.18352	3.9	15
CCK187	*Ficus benjamina*	Moraceae	Cryptogenic	-	Strangler	40803.73004	19369.01171	3.2 spread	16
CCK1599	*Ficus microcarpa*	Moraceae	Native	Common	Strangler	46522.36	18997.59	10 spread	20
CCK1758	*Ficus microcarpa*	Moraceae	Native	Common	Strangler	41347.563	19140.573	8 spread	25
CCK1760	*Ficus microcarpa*	Moraceae	Native	Common	Strangler	41325.961	19139.522	5 spread	20
CCK336	*Ficus microcarpa*	Moraceae	Native	Common	Tree	40965.1	19312.82	8 spread	18
CCK365	*Ficus microcarpa*	Moraceae	Native	Common	Tree	41017.47	19224.87	3.2 spread	15
CCK503	*Ficus microcarpa*	Moraceae	Native	Common	Strangler	41985.728	19047.346	15 spread	20
CCK518	*Ficus microcarpa*	Moraceae	Native	Common	Strangler	42131.312	19033.407	15 spread	25
CCK525	*Ficus microcarpa*	Moraceae	Native	Common	Strangler	42187.872	19030.188	8 spread	20
CCK922	*Ficus microcarpa*	Moraceae	Native	Common	Strangler	42274.8	18987.416	10 spread	12
CCK923	*Ficus microcarpa*	Moraceae	Native	Common	Strangler	42257.909	18980.317	10 spread	10
CCK924	*Ficus microcarpa*	Moraceae	Native	Common	Strangler	41907.107	19029.19	5 spread	16
CCK1737	*Ficus religiosa*	Moraceae	Exotic	Naturalised	Tree	41730.125	19111.676	3.2	12
CCK678	*Ficus religiosa*	Moraceae	Exotic	Naturalised	Tree	42922.383	19183.053	3.7	10
CCK528	*Ficus variegata*	Moraceae	Native	Common	Tree	42195.925	19027.599	1.2	15
CCK541	*Ficus variegata*	Moraceae	Native	Common	Tree	42247.315	19020.592	1.5	20
CCK1835	*Gnetum gnemon* var. *gnemon*	Gnetaceae	Native	Critically endangered	Tree	42169.132	18945.887	1	8
CCK274	*Hura crepitans*	Euphorbiaceae	Exotic	Cultivated Only	Tree	40778.63	19453.38	1.4	6
CCK154	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40656.87998	19450.92552	2.95	15
CCK155	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40669.47996	19466.04987	2.85	13

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK156	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40672.14001	19454.03093	2.5	12
CCK157	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40672.03002	19446.24081	2.3	12
CCK158	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40665.62002	19431.3281	3.2	14
CCK159	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40671.35995	19438.89582	2.2	12
CCK160	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40680.65	19439.56385	2.2	12
CCK161	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40690.15994	19441.34476	2.9	12
CCK162	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40695.69004	19433.88868	2.85	12
CCK163	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40694.48003	19430.32745	2.6	12
CCK164	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40689.94	19424.76294	2.3	12
CCK165	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40681.54003	19425.43039	3.5	12
CCK166	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40698.78999	19417.75212	3.7	15
CCK167	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40702.98996	19421.09088	3.2	14
CCK168	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40706.74995	19410.96386	3.2	14
CCK169	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40719.69001	19413.96904	2.4	13
CCK170	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40731.73995	19412.85655	2.9	13
CCK171	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40741.03005	19405.28932	2.3	13
CCK172	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40741.13999	19401.17169	3.4	14
CCK173	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40722.89004	19390.37623	3.2	14
CCK174	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40725.99004	19382.80879	3.4	14
CCK1741A	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41829.356	19102.754	6.5	14
CCK1741B	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41813.046	19110.227	6	14
CCK1741C	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41812.004	19120.339	7	14
CCK175	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40726.65	19377.91217	3	13
CCK1756	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41287.944	19118.231	3	18
CCK1757	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41370.757	19107.828	3	18
CCK1759	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41340.074	19123.673	2.7	20
CCK176	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40748.43995	19383.69983	3.05	13
CCK1761	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41325.817	19131.8	2.5	20
CCK1762	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41321.039	19134.457	1.5	20
CCK1764	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41308.772	19136.291	1	10
CCK1765	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41307.261	19134.503	2.5	20
CCK1766	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41298.501	19140.207	4	20
CCK1767	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41298.302	19136.176	1.6	10
CCK1768	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41294.757	19135.479	2.5	20
CCK1769	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41301.864	19130.975	1	10
CCK177	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40753.19005	19386.37088	1.5	11

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK1770	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41305.063	19123.608	1.7	15
CCK1771	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41296.335	19121.153	3	20
CCK1772	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41306.921	19119.983	1.8	20
CCK1773	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41315.408	19116.709	3.5	20
CCK1774	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	41296.769	19117.967	3	20
CCK178	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40760.16005	19396.27567	2.75	13
CCK179	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40761.59997	19385.59214	2.5	12
CCK180	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40761.15	19376.68914	2	9
CCK181	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40778.40001	19390.93448	2.9	12
CCK231	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	41118.76005	19149.67507	3.6	13
CCK232	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	41119.20005	19152.45726	2.7	13
CCK233	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	41119.41999	19152.2347	3.2	13
CCK234	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	41119.18997	19162.69568	3.1	12
CCK235	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	41114.45004	19160.02463	2.9	9
CCK238	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	41122.41002	19182.83876	2.05	10
CCK239	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	41143.20004	19188.18124	3.8	12
CCK240	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	41118.09999	19213.55387	2.9	12
CCK241	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	41101.40003	19214.43248	2.45	10
CCK242	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	41099.85001	19223.79168	3.4	12
CCK243	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	41100.39997	19235.14299	2.6	11
CCK244	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	41109.57995	19253.72825	2.7	8
CCK245	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	41098.40995	19261.62926	3	8
CCK253	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40636.37	19498.65	1.6	9
CCK254	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40664	19508.86	1.35	6
CCK257	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40693.86	19468.58	2.8	14
CCK258	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40705.81	19460.24	3.2	14
CCK259	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40717.64	19480.08	2.2	10
CCK260	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40715.95	19492.28	1.3	8
CCK261	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40718.74	19466.98	1.3	8
CCK262	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40735.73	19482.49	2.4	14
CCK263	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40724.79	19448.61	2.4	12
CCK264	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40723.79	19447.05	2.5	13
CCK265	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40719.03	19446.05	1	10
CCK266	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40719.5	19454.59	2.1	13
CCK267	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40731.23	19450	2	11
CCK268	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40738.97	19441.2	2.8	14

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK269	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40748.18	19442.01	2.3	13
CCK270	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40729.38	19434.88	2.05	11
CCK271	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40743.27	19424.87	3.1	16
CCK272	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40742.65	19444.16	3.2	17
CCK273	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40748.87	19413.74	2.85	13
CCK275	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40786.17	19451.23	3.5	15
CCK276	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40790.81	19455.13	1.95	10
CCK277	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40790.31	19435.55	2.9	15
CCK278	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40801.12	19452.87	2.3	10
CCK279	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40806.54	19451.27	2	9
CCK280	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40790.66	19427.08	1.9	10
CCK281	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40788.03	19419.96	2.4	18
CCK282	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40786.49	19405.16	3.6	18
CCK283	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40787.23	19397.36	2.8	18
CCK284	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40805.13	19372.72	2.6	17
CCK285	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40816.79	19369.68	3.3	18
CCK286	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40809.39	19371.38	3.4	20
CCK287	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40832.66	19368.52	1.7	8
CCK288	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40827.29	19362.37	2.1	18
CCK289	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40836.11	19361.98	1.8	15
CCK290	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40843.91	19373.83	2.5	20
CCK291	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40842.89	19362.14	3	20
CCK292	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40845.45	19381.11	1.8	12
CCK293	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40837.42	19384.5	2	17
CCK294	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40837.36	19386.68	2.2	18
CCK295	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40842.11	19385.18	1.9	12
CCK296	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40847.84	19381.22	2.3	18
CCK297	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40854.96	19355.41	2	17
CCK298	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40862.19	19341.5	2.4	18
CCK299	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40862.63	19338.46	2.2	18
CCK300	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40864.78	19349.82	3	22
CCK301	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40877.34	19347.16	3.6	20
CCK302	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40875.99	19351.57	1.9	18
CCK303	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40869.17	19359.65	2.6	20
CCK304	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40884.72	19361.79	2.6	20
CCK305	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40866.39	19382.9	3.4	19

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK306	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40878.55	19380.16	3.4	18
CCK308	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40939.73	19371.44	2.8	15
CCK309	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40946.93	19369.4	2.6	16
CCK310	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40942.8	19353.58	3	17
CCK311	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40950.44	19348.38	1	11
CCK312	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40947.8	19342.41	2.8	18
CCK313	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40943.2	19348.78	2.8	18
CCK314	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40932.85	19347.39	2.6	17
CCK315	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40940.03	19356.94	3.7	18
CCK330	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40948.05	19331.45	1.7	14
CCK332	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40957.88	19343.21	3	18
CCK333	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40964.57	19334.31	1.6	10
CCK334	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40959.41	19331.63	1.8	14
CCK335	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40970.52	19323.8	3.1	18
CCK344	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40953.07	19282.7	2.4	15
CCK345	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40965.2	19288.07	2.6	16
CCK347	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40975.01	19306.23	4	17
CCK348	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40987.95	19309.26	2.7	11
CCK349	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40969.32	19280.36	2.4	18
CCK356	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	41004.69	19250.16	2.2	15
CCK357	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	41002.78	19255.29	2.2	15
CCK358	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	40996.96	19262.82	2	15
CCK359	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	41001.35	19263.7	2.5	15
CCK360	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	41011.94	19266.7	2.1	15
CCK361	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	41021.69	19271.03	3	15
CCK372	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	41059.58	19223.85	2.4	17
CCK373	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	41045.93	19261.58	2.7	18
CCK374	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	41055.04	19258.71	2.7	18
CCK375	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	41066.95	19257.24	2.3	18
CCK376	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	41068.11	19244.66	3	20
CCK377	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	41075.66	19241.28	3	20
CCK380	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated Only	Tree	41089.31	19238.68	3	15
CCK955	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	43262.261	19265.457	3.6 spread	16
CCK956	*Khaya senegalensis*	Meliaceae	Exotic	Cultivated only	Tree	43237.531	19309.048	2.8	14
CCK1855	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	44286.968	19200.675	1.4	15
CCK2503	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	44069.64	19196.27	1.6	15

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK629	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	42507.304	19061.574	2.8	8
CCK630	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	42503.963	19055.029	1.2	8
CCK638	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	42527.457	19066.008	1.4	10
CCK640	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	42538.192	19067.403	1.4	12
CCK641	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	42543.579	19069.89	1.6	8
CCK642	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	42550.258	19068.304	1.1	10
CCK643	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	42554.958	19070.346	1.5	12
CCK644	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	42555.417	19067.118	1	8
CCK645	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	42559.759	19073.568	1.2	10
CCK646	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	42570.598	19076.755	1.9	8
CCK649	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	42581.122	19073.626	1.2	10
CCK650	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	42587.419	19077.316	1	8
CCK651	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	42596.825	19074.513	1.8	8
CCK652	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	42596.933	19080.263	1	8
CCK653	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	42605.375	19075.045	1.8	6
CCK654	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	42607.558	19075.64	1.8	8
CCK662	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	42794.513	19148.732	1	10
CCK721	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	43213.286	19165.323	1.7	12
CCK722	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	43226.967	19172.141	1	10
CCK723	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	43203.546	19173.949	1.9	12
CCK912	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	43185.596	19267.277	1.1	12
CCK913	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	43175.525	19237.462	1.2	10
CCK916	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	42927.531	19152.4	1	10
CCK917	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	42927.076	19153.093	1	8
TR0299	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	45251.76906	19030.45124	1.1	12
TR0300	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	45256.08152	19029.78368	1.3	20
TR0336	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	45443.2864	18993.28866	1	12
TR0368	*Leucaena leucocephala*	Fabaceae	Exotic	Naturalised	Tree	45483.97809	18982.02802	1	7
CCK2607	*Lumnitzera littorea*	Combretaceae	Native	Endangered	Tree	45650.07	18945.61	0.3	5
CCK1202	*Lumnitzera racemosa*	Combretaceae	Native	Endangered	Tree	43083.658	19156.148	0.4	8
CCK1005	*Macaranga gigantea*	Euphorbiaceae	Native	Common	Tree	43454.281	19291.982	1	8
CCK1006	*Macaranga gigantea*	Euphorbiaceae	Native	Common	Tree	43511.227	19300.935	1.2	10
CCK1007	*Macaranga gigantea*	Euphorbiaceae	Native	Common	Tree	43521.458	19305.556	1.3	10
CCK1436	*Macaranga gigantea*	Euphorbiaceae	Native	Common	Tree	44828.824	19146.98	1	18
CCK1437	*Macaranga gigantea*	Euphorbiaceae	Native	Common	Tree	44834.28	19144.918	1	18
CCK1842	*Macaranga gigantea*	Euphorbiaceae	Native	Common	Tree	44031.035	19229.169	1.2	15

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK1851	*Macaranga gigantea*	Euphorbiaceae	Native	Common	Tree	44175.229	19201.874	4	15
CCK1863	*Macaranga gigantea*	Euphorbiaceae	Native	Common	Tree	44492.002	19159.738	1	15
CCK002	*Mangifera indica*	Anacardiaceae	Exotic	Casual	Tree	40395.487	19741.627	2.1	10
CCK023	*Mangifera indica*	Anacardiaceae	Exotic	Casual	Tree	40505.559	19761.674	2.4	9
CCK030	*Mangifera indica*	Anacardiaceae	Exotic	Casual	Tree	40681.809	19579.16	1.6	13
CCK111	*Mangifera indica*	Anacardiaceae	Exotic	Casual	Tree	40478.122	19593.726	1.1	12
CCK118	*Mangifera indica*	Anacardiaceae	Exotic	Casual	Tree	40497.537	19574.87	1.25	13
CCK123	*Mangifera indica*	Anacardiaceae	Exotic	Casual	Tree	40493.891	19555.999	1.25	12
CCK125	*Mangifera indica*	Anacardiaceae	Exotic	Casual	Tree	40500.295	19563.079	2.3	15
CCK131	*Mangifera indica*	Anacardiaceae	Exotic	Casual	Tree	40540.478	19538.063	1.2	14
CCK132	*Mangifera indica*	Anacardiaceae	Exotic	Casual	Tree	40542.022	19533.294	1.7	14
CCK1763	*Mangifera indica*	Anacardiaceae	Exotic	Casual	Tree	41311.794	19136.995	1.5	20
CCK198	*Mangifera indica*	Anacardiaceae	Exotic	Casual	Tree	40843.98001	19335.29299	2	14
CCK247	*Mangifera indica*	Anacardiaceae	Exotic	Casual	Tree	40649.55	19509.15	2.3	8
CCK255	*Mangifera indica*	Anacardiaceae	Exotic	Casual	Tree	40673.36	19476.63	2.2	9
CCK256	*Mangifera indica*	Anacardiaceae	Exotic	Casual	Tree	40672.91	19462.38	1.9	8
CCK386	*Mangifera indica*	Anacardiaceae	Exotic	Casual	Tree	40600.41	19638.254	1.2	8
CCK516	*Mangifera indica*	Anacardiaceae	Exotic	Casual	Tree	42127.306	19039.335	1	8
CCK520	*Mangifera indica*	Anacardiaceae	Exotic	Casual	Tree	42155.008	19039.176	1.2	15
CCK537	*Mangifera indica*	Anacardiaceae	Exotic	Casual	Tree	42253.065	19034.728	1.4	12
CCK859	*Mangifera indica*	Anacardiaceae	Exotic	Casual	Tree	43028.084	19220.977	1	8
CCK889	*Mangifera indica*	Anacardiaceae	Exotic	Casual	Tree	43086.009	19248.27	1	14
CCK890	*Mangifera indica*	Anacardiaceae	Exotic	Casual	Tree	43094.773	19250.588	1	14
CCK892	*Mangifera indica*	Anacardiaceae	Exotic	Casual	Tree	43108.422	19255.831	1.1	10
CCK893	*Mangifera indica*	Anacardiaceae	Exotic	Casual	Tree	43110.546	19253.383	1.1	12
CCK907	*Mangifera indica*	Anacardiaceae	Exotic	Casual	Tree	43173.263	19269.973	1	12
CCK966	*Mangifera indica*	Anacardiaceae	Exotic	Casual	Tree	43132.016	19309.581	1.1	10
CCK982	*Mangifera indica*	Anacardiaceae	Exotic	Casual	Tree	43317.946	19312.386	2.2	14
CCK031	*Mangifera odorata*	Anacardiaceae	Native	Vulnerable	Tree	40693.897	19576.896	1.6	12
CCK114	*Mangifera odorata*	Anacardiaceae	Native	Vulnerable	Tree	40482.447	19586.809	1.8	13
CCK045	*Nephelium lappaceum* var. *lappa*	Sapindaceae	Cryptogenic	-	Tree	40515.4	19580.117	1.2	12
CCK115	*Nephelium lappaceum* var. *lappa*	Sapindaceae	Cryptogenic	-	Tree	40478.912	19583.499	1	11
CCK119	*Nephelium lappaceum* var. *lappa*	Sapindaceae	Cryptogenic	-	Tree	40497.897	19577.732	1.1	10
CCK130	*Nephelium lappaceum* var. *lappa*	Sapindaceae	Cryptogenic	-	Tree	40539.503	19537.253	1.55	10
CCK519	*Nephelium lappaceum* var. *lappa*	Sapindaceae	Cryptogenic	-	Tree	42149.577	19032.823	1	12
CCK521	*Nephelium lappaceum* var. *lappa*	Sapindaceae	Cryptogenic	-	Tree	42150.876	19044.702	1.4	10

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK526	*Nephelium lappaceum* var. *lappa*	Sapindaceae	Cryptogenic	-	Tree	42189.092	19024.495	1	15
CCK1101	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43253.512	19221.783	3	5
CCK1104	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43263.774	19227.447	5	6
CCK1110	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43272.078	19220.792	3	6
CCK1113	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43277.624	19217.45	2	6
CCK1141	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43352.313	19234.631	3	5
CCK1147	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43363.119	19244.156	2	5
CCK1151	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43373.748	19247.427	10 spread	5
CCK1154	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43376.678	19242.376	10 spread	6
CCK1171	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43427.364	19253.449	2	6
CCK1178	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43442.026	19258.616	4	6
CCK1181	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43452.394	19259.687	2	5
CCK1236	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43527.31	19269.98	5	6
CCK1237	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43503.52	19263.7	4	8
CCK1244	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43991.11	19210.07	5	6
CCK1254	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	44043.24	19201.46	4	6
CCK1311	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43373.24	19227.28	0.3	3
CCK1321	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43410.36	19222.42	4.3	6
CCK1323	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43428.85	19227.74	3	6
CCK1327	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43424.87	19226.75	1	4
CCK1333	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43444.1	19224.92	3	6
CCK1334	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43450.03	19239.2	4	5
CCK1338	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43462.23	19248.02	4	6
CCK1342	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43484.9	19242.15	0.5	5
CCK1344	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43480.33	19250.21	2	5
CCK1345	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43487.03	19246.99	1	5
CCK1350	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43485.91	19253.22	1	6
CCK1356	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43501.74	19251.93	5	6
CCK1357	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43497.13	19250.25	2	6
CCK1361	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43505.73	19240.6	3	8
CCK1370	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43531.23	19247.06	4	6
CCK1372	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43529.73	19247.27	3	6
CCK1376	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43546.18	19247.94	5	6
CCK1378	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43552.84	19252.72	3	6
CCK1380	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43554.34	19247.96	6 spread	6
CCK1385	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43564.77	19261.48	2	6

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK1393	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43591.96	19255.59	4	6
CCK1401	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43604.07	19258.23	4	6
CCK1407	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43611.43	19253.05	5	10
CCK1414	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43640.69	19253.03	2	5
CCK1418	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43641.64	19256.65	3	7
CCK1560A	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	44624.064	19078.066	1.5	6
CCK1561A	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	44676.164	19065.34	2.5	6
CCK2562	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	44581.93	19096.89	1.5	6
CCK704	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43265.878	19198.45	2	6
CCK707	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43252.529	19204.561	1.5	3
CCK709	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43245.221	19204.104	1.5	2
CCK719	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43211.355	19192.093	4	10
CCK729	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43146.719	19164.032	2.5	5
CCK737	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43177.862	19185.432	3	7
CCK740	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43188.945	19186.304	4	8
CCK742	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43200.628	19181.763	1.5	5
CCK759	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43219.585	19196.038	2.5	7
CCK772	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43234.427	19199.257	4	5
CCK783	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43142.96	19184.259	2	8
CCK784	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43135.456	19182.514	1.5	5
CCK793	*Nypa fruticans*	Arecaceae	Native	Vulnerable	Palm	43130.047	19179.52	1.5	6
CCK019	*Peltophorum pterocarpum*	Fabaceae	Native	Critically endangered	Tree	40437.741	19800.589	2.2	9
CCK1727	*Peltophorum pterocarpum*	Fabaceae	Native	Critically endangered	Tree	41534.289	19138.064	1.4	10
CCK1728	*Peltophorum pterocarpum*	Fabaceae	Native	Critically endangered	Tree	41525.94	19142.08	1.3	10
CCK1729	*Peltophorum pterocarpum*	Fabaceae	Native	Critically endangered	Tree	41490.679	19148.769	1.2	10
CCK1730	*Peltophorum pterocarpum*	Fabaceae	Native	Critically endangered	Tree	41478.815	19151.339	1.4	10
CCK1731	*Peltophorum pterocarpum*	Fabaceae	Native	Critically endangered	Tree	41472.579	19155.691	1.4	10
CCK1732	*Peltophorum pterocarpum*	Fabaceae	Native	Critically endangered	Tree	41542.688	19135.984	1.4	10
CCK1733	*Peltophorum pterocarpum*	Fabaceae	Native	Critically endangered	Tree	41554.16	19134.238	1.6	10
CCK1734	*Peltophorum pterocarpum*	Fabaceae	Native	Critically endangered	Tree	41689.149	19117.985	1.5	12
CCK1735	*Peltophorum pterocarpum*	Fabaceae	Native	Critically endangered	Tree	41699.609	19116.65	1.6	12
CCK1736	*Peltophorum pterocarpum*	Fabaceae	Native	Critically endangered	Tree	41708.585	19112.165	2	12
CCK1739	*Peltophorum pterocarpum*	Fabaceae	Native	Critically endangered	Tree	41758.493	19105.165	2	15
CCK1740	*Peltophorum pterocarpum*	Fabaceae	Native	Critically endangered	Tree	41767.593	19103.275	1.6	14
CCK038	*Pterocarpus indicus*	Fabaceae	Exotic	Casual	Tree	40597.053	19547.462	3.8	12
CCK039	*Pterocarpus indicus*	Fabaceae	Exotic	Casual	Tree	40593.928	19540.023	5.2	16

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK153	*Pterocarpus indicus*	Fabaceae	Exotic	Casual	Tree	40638.29997	19463.82312	5.4	15
CCK249	*Pterocarpus indicus*	Fabaceae	Exotic	Casual	Tree	40683.72	19542.88	2.4	16
CCK250	*Pterocarpus indicus*	Fabaceae	Exotic	Casual	Tree	40673.8	19507.21	1.6	14
CCK251	*Pterocarpus indicus*	Fabaceae	Exotic	Casual	Tree	40663.58	19506.64	2.6	12
CCK001	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40377.215	19755.589	2.95	10
CCK003	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40406.392	19735.065	1.85	9
CCK004	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40435.357	19720.886	1.25	10
CCK005	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40482.245	19696.691	3	10
CCK006	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40504.015	19685.205	2.55	10
CCK007	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40526.41	19674.04	3.95	11
CCK008	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40542.299	19668.227	3	10
CCK009	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40554.671	19661.946	2.85	10
CCK010	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40562	19697.082	1.4	8
CCK011	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40507.67	19717.43	1.6	8
CCK012	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40496.251	19722.792	2.6	9
CCK013	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40485.958	19728.228	2	7
CCK014	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40475.356	19734.422	2.65	7
CCK015	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40425.464	19775.279	1.9	10
CCK017	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40410.671	19811.385	2.4	9
CCK018	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40426.097	19804.368	1	9
CCK020	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40440.099	19797.711	1.4	9
CCK021	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40455.422	19792.327	1.85	8
CCK022	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40475.053	19776.17	4.8	11
CCK024	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40517.939	19754.234	3.35	9
CCK025	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40568.307	19736.139	1.3	9
CCK037	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40615.362	19556.388	2.8	10
CCK043	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40532.87	19590.572	4.4	15
CCK046	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40510.523	19595.636	1.8	15
CCK047	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40518.121	19602.902	2.6	15
CCK048	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40499.212	19615.06	3.85	15
CCK049	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40494.263	19619.033	3.4	15
CCK050	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40492.393	19612.835	1.25	12
CCK051	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40492.917	19606.577	1.2	13
CCK052	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40497.514	19603.039	3.4	15
CCK053	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40491.628	19594.995	2.6	15
CCK054	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40486.229	19600.753	1.5	15

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK055	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40474.404	19608.627	2.6	15
CCK056	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40479.343	19613.846	1.5	11
CCK057	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40474.623	19615.663	2.1	15
CCK058	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40480.199	19631.799	2.4	14
CCK059	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40471.472	19628.692	2.1	13
CCK060	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40465.808	19623.795	2.6	15
CCK061	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40460.388	19616.204	1.55	15
CCK062	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40454.799	19624.963	3.1	15
CCK063	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40465.768	19632.409	1.9	15
CCK064	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40462.596	19635.02	2.75	15
CCK067	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40450.817	19643.646	3.5	15
CCK069	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40446.873	19635.619	3.05	15
CCK070	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40441.124	19636.058	2.2	14
CCK071	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40441.031	19627.325	1.45	13
CCK072	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40434.244	19633.194	2.5	15
CCK073	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40429.997	19639.847	3.3	15
CCK076	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40442.494	19657.791	3.2	15
CCK078	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40434.75	19658.551	3.8	15
CCK080	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40427.957	19662.167	3.1	15
CCK081	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40419.464	19657.449	2	12
CCK082	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40410.623	19656.289	3.9	15
CCK083	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40403.465	19657.428	2.1	13
CCK084	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40402.08	19661.474	1.5	8
CCK086	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40389.899	19651.131	2.85	16
CCK089	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40383.087	19644.816	2.1	13
CCK091	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40390.007	19642.873	3.2	12
CCK091	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40392.848	19645.013	1.35	13
CCK092	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40394.124	19648.894	1.15	14
CCK093	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40399.057	19644.513	1.65	15
CCK094	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40396.165	19640.848	1.55	14
CCK095	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40393.597	19639.319	1.55	14
CCK096	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40402.368	19641.811	1.7	14
CCK097	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40405.96	19636.083	1.55	15
CCK098	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40407.974	19639.723	1.5	15
CCK099	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40407.187	19630.092	3.1	14
CCK100	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40405.262	19630.657	2.35	12

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK1008	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40759.396	19568.435	1	10
CCK1009	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40773.73	19560.304	1.5	11
CCK101	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40429.94	19619.958	2.45	14
CCK102	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40428.737	19611.985	3.2	13
CCK1028	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40838.235	19500.317	1.2	11
CCK1031	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40852.155	19491.124	1.1	10
CCK1033	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40865.812	19483.136	1.1	10
CCK1036	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40877.591	19472.694	1.2	10
CCK1038	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40886.195	19466.311	1.3	10
CCK1040	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40924.159	19437.565	1.3	10
CCK1046	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40941.686	19427.619	1.2	10
CCK105	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40439.48	19607.192	2.3	12
CCK1052	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40964.189	19410.363	1.2	11
CCK1055	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40976.817	19401.188	1.3	10
CCK1058	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40990.82	19388.732	1.3	11
CCK106	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40444.695	19599.07	2.75	12
CCK1064	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	41026.658	19369.216	1.3	10
CCK1067	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	41043.529	19358.752	1.4	11
CCK107	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40449.836	19606.817	4.1	14
CCk108	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40452.548	19593.376	1.95	12
CCK116	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40478.059	19573.526	3.7	14
CCK117	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40487.632	19574.405	3	15
CCK129	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40531.414	19546.229	3.7	15
CCK134	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40550.517	19536.64	3.2	15
CCK139	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40586.33005	19511.66388	3.7	18
CCK1434	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	44801.587	19126.448	3	25
CCK144	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40589.75996	19508.78164	2.6	17
CCK145	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40593.29999	19502.77224	1.9	15
CCK149	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40602.13999	19503.8854	3.7	17
CCK150	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40599.16	19493.20172	2.8	16
CCK151	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40599.82002	19493.31302	2.6	16
CCK182	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40788.58005	19379.02707	3.4	14
CCK183	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40788.36001	19378.91578	2.7	14
CCK184	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40775.53003	19357.22547	2.55	11
CCK185	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40779.95005	19350.53724	2.2	13
CCK1857	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	44474.59	19158.311	2.7	25

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK186	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40780.39003	19350.42597	2.2	12
CCK189	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40814.22999	19359.77521	1.7	14
CCK190	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40805.27004	19354.87828	2.35	15
CCK191	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40798.52997	19347.08795	1.8	15
CCK192	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40798.41995	19346.97666	3.2	15
CCK193	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40807.03999	19342.0803	2.8	15
CCK194	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40826.62002	19346.8663	3.1	15
CCK195	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40813.68004	19331.28565	2.8	15
CCK196	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40818.42997	19322.6054	2.7	14
CCK197	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40841.21003	19334.29131	2.25	15
CCK199	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40844.75005	19332.17697	2.1	15
CCK200	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40859.12998	19302.68632	2.95	14
CCK201	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40841.64997	19322.04973	2.2	12
CCK202	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40849.73004	19324.83218	2.5	13
CCK203	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40848.18	19314.5937	2.5	13
CCK204	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40850.28004	19307.91653	1.5	7
CCK205	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40858.46004	19308.25066	1.5	14
CCK206	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40866.63995	19317.82164	2.6	14
CCK207	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40867.63995	19315.70721	2	14
CCK208	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40865.75999	19307.91704	1.9	14
CCK209	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40863.55004	19301.12845	2.4	12
CCK210	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40870.18002	19300.90609	1.5	12
CCK211	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40880.36004	19309.58683	2.3	12
CCK212	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40889.64003	19306.80496	2.4	14
CCK213	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40895.28	19294.1184	3.1	14
CCK214	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40894.50996	19294.11837	2.3	14
CCK215	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40886.10998	19288.44245	2.2	12
CCK216	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40921.93004	19273.41985	3.2	14
CCK248	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40618.82	19510.58	4.5	12
CCK316	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40925.88	19331.08	2.6	17
CCK317	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40922.55	19328.43	2.7	17
CCK318	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40922.05	19314.24	1.7	18
CCK319	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40914.37	19315.58	3	18
CCK320	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40914.43	19309.99	2.4	18
CCK321	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40911.46	19306.15	3	18
CCK322	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40912.81	19298.59	3.2	18

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK323	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40910.78	19294.51	3.4	18
CCK324	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40908.99	19295.47	2.5	18
CCK325	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40919.71	19306.24	1.2	13
CCK326	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40926.26	19309.29	1.8	14
CCK327	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40931.54	19313.51	1.6	15
CCK328	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40931.89	19323.81	1.6	15
CCK329	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40937.04	19323.77	2.2	12
CCK337	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40961.46	19307.39	2	16
CCK338	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40945.86	19290.73	3.7	18
CCK339	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40931.96	19299.74	2.3	15
CCK340	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40924.94	19291.78	2.8	15
CCK341	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40926.17	19280.19	1.6	12
CCK342	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40931.34	19280.25	3.2	15
CCK343	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	40940.35	19287.73	1.6	12
CCK500	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	41905.939	19028.112	4.5	15
CCK700	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	43283.827	19195.139	1.6	12
CCK914	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	43114.958	19205.801	8	14
TR0305	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	45276.31732	19013.53672	2	16
TR1614	*Samanea saman*	Fabaceae	Exotic	Casual	Tree	45151.14506	19050.03395	1.3	14
CCK128	*Sandoricum koetjape*	Meliaceae	Native	Endangered	Tree	40517.472	19552.284	2.05	13
CCK1139	*Sonneratia alba*	Lythraceae	Native	Common	Tree	43347.688	19237.84	1	16
CCK1142	*Sonneratia alba*	Lythraceae	Native	Common	Tree	43349.396	19240.19	1.2	16
CCK1152	*Sonneratia alba*	Lythraceae	Native	Common	Tree	43375.928	19245.003	1.3	13
CCK1176	*Sonneratia alba*	Lythraceae	Native	Common	Tree	43442.9	19256.584	1.5	15
CCK1239	*Sonneratia alba*	Lythraceae	Native	Common	Tree	43936.4	19206.67	1	10
CCK1368	*Sonneratia alba*	Lythraceae	Native	Common	Tree	43530.76	19246.63	1.1	12
CCK1371	*Sonneratia alba*	Lythraceae	Native	Common	Tree	43526.59	19259.95	1	10
CCK1377	*Sonneratia alba*	Lythraceae	Native	Common	Tree	43551.45	19252.58	1	12
CCK1406	*Sonneratia alba*	Lythraceae	Native	Common	Tree	43609.77	19254.61	1.2	14
CCK1408	*Sonneratia alba*	Lythraceae	Native	Common	Tree	43616.17	19252.39	1	12
CCK1410	*Sonneratia alba*	Lythraceae	Native	Common	Tree	43624.39	19260.01	1	12
CCK1412	*Sonneratia alba*	Lythraceae	Native	Common	Tree	43633.77	19253.4	1	12
CCK1529	*Sonneratia alba*	Lythraceae	Native	Common	Tree	43826.652	19214.69	1.2	12
CCK1550	*Sonneratia alba*	Lythraceae	Native	Common	Tree	44301.157	19139.132	1	9
CCK1561	*Sonneratia alba*	Lythraceae	Native	Common	Tree	44665.977	19067.004	1	10
CCK1680	*Sonneratia alba*	Lythraceae	Native	Common	Tree	46350.531	19076.107	1.4	12

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK1681	*Sonneratia alba*	Lythraceae	Native	Common	Tree	46316.274	19076.633	2	12
CCK1683	*Sonneratia alba*	Lythraceae	Native	Common	Tree	46283.523	19067.785	1	6
CCK1686	*Sonneratia alba*	Lythraceae	Native	Common	Tree	46257.656	19052.475	1.2	6
CCK1692	*Sonneratia alba*	Lythraceae	Native	Common	Tree	46235.63	19048.993	1.3	8
CCK1699	*Sonneratia alba*	Lythraceae	Native	Common	Tree	46269.25	19020.11	1	8
CCK1703	*Sonneratia alba*	Lythraceae	Native	Common	Tree	46143.375	19021.565	1.1	6
CCK1704	*Sonneratia alba*	Lythraceae	Native	Common	Tree	46139.173	19021.073	1	6
CCK1709	*Sonneratia alba*	Lythraceae	Native	Common	Tree	46111.775	19005.97	1.1	6
CCK1710	*Sonneratia alba*	Lythraceae	Native	Common	Tree	46109.701	19006.941	1	6
CCK1712	*Sonneratia alba*	Lythraceae	Native	Common	Tree	46096.115	18997.992	1	6
CCK1716	*Sonneratia alba*	Lythraceae	Native	Common	Tree	46058.726	18986.609	1.3	8
CCK1724	*Sonneratia alba*	Lythraceae	Native	Common	Tree	45980.655	18958.025	1.3	7
CCK2627	*Sonneratia alba*	Lythraceae	Native	Common	Tree	45807.82	18903.35	1	12
CCK728	*Sonneratia alba*	Lythraceae	Native	Common	Tree	43141.325	19159.895	1.6	8
CCK738	*Sonneratia alba*	Lythraceae	Native	Common	Tree	43181.433	19195.033	1.5	12
CCK749	*Sonneratia alba*	Lythraceae	Native	Common	Tree	43203.156	19201.283	1.2	15
CCK756	*Sonneratia alba*	Lythraceae	Native	Common	Tree	43217.66	19203.511	1.1	10
CCK767	*Sonneratia alba*	Lythraceae	Native	Common	Tree	43231.952	19207.766	1.2	15
CCK1309	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43370.39	19223.17	0.3	2
CCK1319	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43401.92	19224.02	0.3	2
CCK1131	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43335.093	19231.383	0.5	3
CCK1308	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43370.36	19225.5	0.4	3
CCK1324	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43428.36	19224.63	0.5	3
CCK1348	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43483.53	19250.88	0.4	3
CCK1222	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43852.34	19238.53	0.4	4
CCK1223	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43815.82	19228.19	0.4	4
CCK1318	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43411.53	19229.48	0.5	4
CCK1353	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43497.94	19261.1	0.3	4
CCK1354	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43495.95	19260.92	0.3	4
CCK1355	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43498.65	19255.4	0.3	4
CCK713	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43223.083	19209.307	0.6	4
CCK1233	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43558.43	19267.07	0.4	5
CCK1307	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43369.61	19227.1	0.8	5
CCK1310	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43377.06	19223.44	0.5	5
CCK1332	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43446.2	19230.6	0.7	5
CCK1383	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43546.68	19257.69	0.6	5

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK1517	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43083.554	19149.102	0.5	5
CCK2602	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	45620.64	18939.09	0.3	5
CCK705	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43260.101	19199.656	0.3	5
CCK706	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43252.593	19201.347	0.3	5
CCK710	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43238.731	19202.224	1.5	5
CCK714	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43221.802	19210.768	0.5	5
CCK736	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43175.689	19185.748	0.3	5
CCK765	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43222.969	19209.396	0.3	5
CCK780	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43142.218	19188.612	0.35	5
CCK1127	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43316.828	19226.292	0.3	6
CCK1138	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43343.714	19234.827	0.3	6
CCK1149	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43363.102	19239.203	0.7	6
CCK1168	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43419.652	19255.026	1	6
CCK1175	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43439.105	19252.229	0.5	6
CCK1177	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43441.772	19258.891	0.6	6
CCK1230	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43791.17	19235.14	0.4	6
CCK1336	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43454.01	19231.71	1.3	6
CCK1364	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43519.64	19245.06	0.7	6
CCK1366	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43524.7	19249.08	0.3	6
CCK1379	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43552.92	19252.54	0.6	6
CCK1500A	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	42883.865	19092.604	0.5-0.9	6
CCK1519	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43090.746	19147.674	1	6
CCK718	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43210.462	19194.888	0.5	6
CCK760	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43223.428	19198.897	0.35	6
CCK764	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43224.29	19206.377	0.3	6
CCK775	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43151.589	19193.564	0.3	6
CCK1114	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43274.85	19215.777	0.6	7
CCK1120	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43309.543	19221.371	0.5	7
CCK1124	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43318.512	19223.665	0.6	7
CCK1129	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43333.046	19231.834	0.5	7
CCK1140	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43350.099	19237.448	0.6	7
CCK1170	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43425.039	19254.075	0.3	7
CCK1188	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43115.041	19172.313	0.5	7
CCK1312	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43376.96	19228.93	0.6	7
CCK1313	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43375.21	19229.48	0.6	7
CCK1335	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43450.53	19239.02	0.7	7

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK1346	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43487.33	19246.49	0.5	7
CCK1347	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43488.98	19248.91	0.5	7
CCK1351	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43490.45	19253.06	0.3	7
CCK1352	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43499.09	19259.93	0.3	7
CCK1384	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43564.43	19262.02	0.5	7
CCK1392	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43585.44	19263.11	0.3	7
CCK1396	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43586.43	19246.67	0.4	7
CCK715	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43216.962	19206.932	0.35	7
CCK762	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43224.683	19201.418	0.5	7
CCK717	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43209.895	19199.352	0.75	7.5
CCK1100	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43252.08	19217.555	0.9	8
CCK1126	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43319.068	19226.736	0.3	8
CCK1153	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43376.633	19241.568	0.7	8
CCK1191	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43109.832	19169.792	0.3	8
CCK1224	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43831.26	19226.2	0.6	8
CCK1231	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43611.53	19268.23	0.7	8
CCK1234	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43559.26	19267.42	0.7	8
CCK1240	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43945.64	19218.66	0.3	8
CCK1306	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43369.02	19219.11	1	8
CCK1317	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43410.88	19230.45	1	8
CCK1326	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43427.66	19226.69	0.6	8
CCK1329	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43435.87	19229.9	1.3	8
CCK1330	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43431.69	19229.17	0.8	8
CCK1337	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43456.3	19236.77	1.5	8
CCK1343	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43479.5	19251.65	1.1	8
CCK1349	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43483.23	19245.03	0.8	8
CCK1363	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43528.84	19242.06	1.1	8
CCK1373	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43538.29	19251.09	0.5	8
CCK1374	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43533.07	19251.99	0.6	8
CCK1375	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43542.96	19251.14	0.8	8
CCK1382	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43553.43	19245.04	0.4	8
CCK1386	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43567.61	19262.82	0.4	8
CCK1391	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43588.17	19255.91	0.4	8
CCK1394	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43584.53	19249.27	0.3	8
CCK1395	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43586.39	19247.04	0.4	8
CCK1397	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43595.62	19253.4	0.5	8

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK1402	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43602.57	19255.71	0.6	8
CCK1409	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43622.34	19263.34	0.6	8
CCK1415	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43646.02	19252.2	0.4	8
CCK1427	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43759.61	19230.88	0.6	8
CCK1518	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43087.692	19148.471	1.1	8
CCK1524	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43114.174	19159.185	0.4	8
CCK1558A	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	44395.982	19182.544	1.1	8
CCK2542	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	44377.37	19155.79	0.5	8
CCK708	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43248.582	19200.547	1.9	8
CCK711	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43229.614	19207.435	0.5	8
CCK712	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43228.881	19207.381	0.4	8
CCK746	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43194.015	19197.611	0.7	8
CCK750	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43207.062	19204.009	0.6	8
CCK755	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43217.629	19201.952	0.3	8
CCK773	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43153.296	19192.886	0.4	8
CCK774	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43152.511	19193.434	0.5	8
CCK776	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43151.979	19193.163	0.6	8
CCK779	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43145.611	19188.305	0.35	8
CCK789	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43144.023	19178.033	0.3	8
CCK1106	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43270.041	19228.164	0.8	9
CCK1122	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43315.327	19225.253	0.6	9
CCK1132	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43336.349	19232.502	0.5	9
CCK1134	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43337.86	19234.397	0.5	9
CCK1157	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43387.69	19247.349	0.9	9
CCK1172	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43429.767	19253.299	0.7	9
CCK1174	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43435.086	19254.69	0.5	9
CCK731	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43153.131	19170.13	0.9	9
CCK741	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43192.017	19186.29	1.1	9
CCK770	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43235.093	19199.408	0.35	9
CCK777	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43146.916	19189.892	1	9
CCK787	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43142.67	19175.318	0.6	9
CCK1121	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43311.043	19223.938	0.8	10
CCK1166	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43416.425	19254.727	0.4	10
CCK1189	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43115.069	19171.355	0.5	10
CCK1193	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43108.577	19164.014	0.64	10
CCK1197	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43103.382	19170.247	0.4	10

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK1203	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43081.243	19162.859	0.4	10
CCK1206	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43078.694	19166.109	0.3	10
CCK1207	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43075.871	19163.207	0.5	10
CCK1219	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	42960.64	19129.052	0.6	10
CCK1219A	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	42942.822	19124.346	0.5	10
CCK1219B	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	42903.373	19126.194	0.5	10
CCK1221	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43858.94	19230.72	0.9	10
CCK1232	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43608.63	19270.59	0.8	10
CCK1297	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43073.104	19155.016	0.5	10
CCK1325	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43431.05	19225.03	1.2	10
CCK1339	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43461.11	19246.31	2	10
CCK1367	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43525.9	19249.69	0.8	10
CCK1369	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43530.65	19246.63	1.5	10
CCK1404	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43604.57	19258.46	0.6	10
CCK1405	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43605.66	19257.13	0.6	10
CCK1416	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43645.23	19251.03	0.5	10
CCK1421	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43658.46	19247.34	0.6	10
CCK1422	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43661.12	19250.74	0.8	10
CCK1520	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43092.384	19149.91	1	10
CCK1521	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43092.76	19149.951	0.8	10
CCK2541	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	44385.27	19158.76	0.5	10
CCK730	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43152.77	19167.926	1	10
CCK735	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43158.665	19165.365	0.8	10
CCK744	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43195.745	19191.594	0.6	10
CCK754	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43213.585	19203.575	0.75	10
CCK763	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43224.41	19203.085	0.5	10
CCK768	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43235.883	19200.984	0.5	10
CCK769	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43235.02	19199.251	0.5	10
CCK771	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43234.623	19199.186	0.6	10
CCK797	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43126.333	19180.226	0.4	10
CCK798	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43126.176	19182.381	0.4	10
CCK799	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43124.508	19181.637	0.7	10
CCK1123	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43316.957	19224.398	0.6	11
CCK1136	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43339.725	19233.172	0.4	11
CCK1148	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43363.869	19239.967	0.6	11
CCK1156	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43383.755	19246.518	0.9	11

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK1162	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43399.401	19248.384	1	11
CCK1179	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43444.415	19258.934	1.4	11
CCK1195	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43108.769	19171.571	0.4	11
CCK1417	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43639.2	19252.94	0.8	11
CCK794	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43129.083	19184.172	0.5	11
CCK795	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43128.429	19183.326	0.8	11
CCK796	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43125.349	19179.95	0.6	11
CCK1105	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43270.812	19228.201	0.9	12
CCK1107	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43271.842	19222.62	1	12
CCK1108	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43271.997	19222.03	0.7	12
CCK1109	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43271.796	19220.975	0.8	12
CCK1111	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43273.673	19221.536	1	12
CCK1112	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43273.936	19219.604	0.9	12
CCK1119	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43305.467	19224.933	0.7	12
CCK1130	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43333.982	19231.418	0.8	12
CCK1137	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43344.233	19232.824	0.8	12
CCK1145	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43356.09	19239.41	0.6	12
CCK1163	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43405.957	19249.948	0.8	12
CCK1169	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43421.464	19256.249	1	12
CCK1190	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43109.81	19171.79	0.4	12
CCK1192	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43108.112	19168.772	0.7	12
CCK1194	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43106.558	19168.732	0.4	12
CCK1198	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43100.648	19170.256	0.5	12
CCK1204	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43080.177	19163.705	0.7	12
CCK1225	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43811.3	19224.19	1	12
CCK1226	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43819.29	19242.48	1	12
CCK1227	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43798.4	19247.2	0.5	12
CCK1229	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43794.37	19248.51	0.9	12
CCK1235	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43558.91	19267.35	0.9	12
CCK1241	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43943.47	19211.22	0.6	12
CCK1360	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43506.36	19240.22	1.7	12
CCK1362	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43521.53	19239.36	1	12
CCK1428	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43761.38	19228.67	0.7	12
CCK1429	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43758.72	19239.09	1	12
CCK1504	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	42962.865	19108.092	1.8	12
CCK1523	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43108.607	19153.874	1.2	12

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK1537	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	44181.84	19160.396	1	12
CCK716	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43213.495	19199.795	0.6	12
CCK747	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43198.6	19198.915	1.2	12
CCK748	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43204.456	19198.36	0.8	12
CCK751	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43207.315	19202.664	0.8	12
CCK752	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43209.585	19201.357	1	12
CCK753	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43208.984	19201.862	1.1	12
CCK757	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43217.62	19202.092	1	12
CCK758	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43218.903	19198.179	1.2	12
CCK761	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43224.541	19201.701	0.68	12
CCK766	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43227.138	19209.452	1.8	12
CCK781	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43141.077	19188.68	0.8	12
CCK782	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43140.746	19187.045	0.7	12
CCK785	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43134.521	19179.908	0.7	12
CCK786	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43140.618	19175.489	0.8	12
CCK790	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43145.389	19178.638	1.2	12
CCK791	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43140.982	19176.558	1	12
CCK792	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43130.158	19175.981	1.2	12
CKK788	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43143.205	19175.679	0.9	12
CCK1158	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43388.455	19246.91	0.8	13
CCK1159	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43390.565	19247.797	0.8	13
CCK1160	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43394.068	19248.267	0.7	13
CCK1161	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43397.24	19250.5	0.8	13
CCK1200	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43096.588	19167.566	0.5	13
CCK1205	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43079.64	19163.151	0.3	13
CCK1208	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43072.181	19164.562	0.6	13
CCK1210	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43068.391	19162.813	0.5	13
CCK1212	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43069.369	19160.132	0.8	13
CCK1294	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43078.08	19152.791	0.3	13
CCK1135	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43339.819	19233.319	0.7	14
CCK1201	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43093.24	19167.467	0.7	14
CCK1209	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43071.084	19160.924	0.4	14
CCK1218	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	42962.588	19128.837	0.8	14
CCK1219C	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	42895.832	19097.626	0.6	14
CCK1381	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43557.05	19250.58	1	14
CCK1525	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43133.519	19158.595	1.8	14

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK2540	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	44383.92	19152.68	0.8	14
CCK1165	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43412.745	19253.287	1.6	15
CCK1183	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43460.451	19262.724	1	15
CCK1185	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43469.933	19266.281	0.9	15
CCK1199	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43097.262	19167.101	0.9	15
CCK1211	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43069.68	19161.18	0.5	15
CCK739	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43187.091	19188.764	1.7	15
CCK1125	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43319.626	19227.58	0.8	16
CCK1128	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43330.041	19232.667	0.9	16
CCK1150	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43367.529	19239.04	0.8	16
CCK1182	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43452.236	19259.214	1.6	16
CCK1133	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43336.703	19232.159	1	18
CCK1389	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43580.82	19258.57	1.4	18
CCK1513	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43044.197	19130.934	1.2	18
CCK1526	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43780.275	19244.921	2	20
CCK1228	*Sonneratia caseolaris*	Lythraceae	Native	Critically endangered	Tree	43795.67	19248.5	0.6	-
CCK1001	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	43841.509	19279.286	1.2	14
CCK1443	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	44864.269	19173.026	2	20
CCK1469	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	44795.999	19185.716	1	12
CCK1511	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	43029.174	19120.904	1.2	15
CCK1516	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	43061.637	19132.439	1.4	12
CCK1671	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	45244.07	18963.35	1	8
CCK1839	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	43996.843	19235.409	2	12
CCK1861	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	44500.129	19174.199	3.5	20
CCK2506	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	44065.83	19208.63	1.1	10
CCK548	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42318.002	19026.712	2.8	15
CCK549	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42319.24	19025.982	2.5	15
CCK550	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42323.74	19028.849	2.8	15
CCK551	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42326.357	19031.97	2.3	15
CCK552	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42323.999	19028.356	2.8	15
CCK553	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42326.658	19022.067	1.2	10
CCK554	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42329.406	19024.144	1.5	15
CCK555	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42331.727	19020.39	3	15
CCK556	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42335.153	19018.819	3	15
CCK557	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42335.69	19021.386	1.8	15
CCK558	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42338.819	19021.755	2	15

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK559	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42339.755	19024.831	1	10
CCK560	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42349.131	19025.139	2.2	15
CCK561	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42350.562	19026.759	2	15
CCK562	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42354.467	19027.28	2	15
CCK563	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42354.453	19033.941	1.6	15
CCK564	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42352.599	19028.228	1.5	15
CCK565	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42348.7	19030.385	1	15
CCK566	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42348.991	19032.076	1.3	15
CCK567	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42350.847	19034.79	1.3	12
CCK568	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42352.282	19033.216	1.3	15
CCK569	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42354.537	19033.061	2.3	15
CCK570	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42360.269	19035.068	2	15
CCK571	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42363.659	19032.01	3.5	15
CCK572	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42364.614	19039.171	4.5	18
CCK573	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42368.82	19036.826	1.3	12
CCK574	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42373.011	19035.024	2.2	18
CCK575	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42372.662	19038.814	2	15
CCK576	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42373.574	19037.109	4.5	18
CCK577	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42376.442	19030.618	2	15
CCK578	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42377.196	19036.844	1.8	15
CCK579	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42386.635	19041.54	2	15
CCK580	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42386.822	19039.81	2	15
CCK581	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42387.863	19036.526	2.3	18
CCK582	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42384.851	19017.457	1.5	10
CCK583	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42430.34	19048.262	2	15
CCK584	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42429.716	19045.44	2	15
CCK585	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42438.434	19050.308	1	12
CCK587	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42419.087	19030.076	3	15
CCK588	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42424.616	19027.601	2.2	15
CCK590	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42432.131	19020.91	2.8	15
CCK591	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42433.204	19023.751	1.7	15
CCK592	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42436.889	19020.431	1.2	15
CCK593	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42429.67	19030.73	1	15
CCK594	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42429.857	19028.445	1	15
CCK595	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42429.862	19031.023	1	15
CCK596	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42439.464	19030.81	1	15

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK597	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42444.596	19028.874	1	15
CCK598	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42444.455	19032.201	1.2	15
CCK599	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42447.815	19023.226	1.5	12
CCK600	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42452.064	19031.923	3.8	12
CCK601	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42448.803	19036.867	1.8	18
CCK603	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42435.474	19049.865	2	15
CCK604	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42438.542	19049.683	1.8	15
CCK605	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42442.177	19050.025	1.1	8
CCK606	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42445.434	19055.376	3.2	15
CCK607	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42449.079	19051.196	1.7	15
CCK608	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42452.435	19051.645	2.4	15
CCK609	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42454.141	19053.691	1	12
CCK610	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42455.936	19050.703	1.2	15
CCK611	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42459.15	19056.701	3	15
CCK612	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42462.013	19056.679	2.6	15
CCK613	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42463.312	19053.954	2.4	15
CCK614	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42467.113	19051.607	1	12
CCK615	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42467.415	19049.192	2.3	15
CCK616	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42470.584	19045.627	1.2	12
CCK617	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42474.065	19043.567	3.5	15
CCK618	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42477.98	19044.196	3	15
CCK619	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42482.759	19040.377	1	15
CCK620	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42487.257	19034.126	1.5	15
CCK621	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42488.26	19038.812	1	15
CCK622	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42474.652	19050.479	3	15
CCK623	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42489.602	19035.494	1	12
CCK624	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42495.244	19045.482	1	12
CCK625	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42493.422	19047.859	1	12
CCK626	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42492.4	19048.438	1	12
CCK627	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42500.938	19042.941	1.1	12
CCK628	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42503.53	19042.973	1.1	8
CCK631	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42515.177	19044.646	2.4	15
CCK632	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42520.28	19049.983	1.1	8
CCK633	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42523.683	19048.767	1	12
CCK634	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42525.236	19049.599	1.5	12
CCK635	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42526.444	19046.864	1.5	12

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK636	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42526.745	19048.504	1.5	12
CCK637	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42529.465	19054.234	2.7	12
CCK639	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42534.957	19057.504	3	10
CCK647	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42571.727	19071.978	4.5	12
CCK648	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42583.516	19071.32	1.8	15
CCK655	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42651.443	19091.908	3	15
CCK656	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42648.739	19097.645	2	15
CCK657	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42663.916	19097.599	1	8
CCK658	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42672.108	19094.656	1.4	8
CCK660	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42690.56	19110.702	3	15
CCK660B	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42735.978	19121.419	2	15
CCK661	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42779.668	19128.99	2	12
CCK702	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	43273.521	19193.258	1.2	9
CCK724	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	43193.411	19173.271	1.3	12
CCK725	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	43188.789	19167.461	1.2	10
CCK918	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	42909.963	19152.007	1.6	14
CCK991	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	43680.079	19311.526	3	20
CCK995	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	43753.992	19298.189	1.8	14
TR0274	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	45331.49431	19012.98223	1.5	15
TR0285	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	45285.49468	19024.22044	3	16
TR0392	*Spathodea campanulata*	Bignoniaceae	Exotic	Naturalised	Tree	44924.13277	19076.02233	3	8
CCK1070	*Swietenia macrophylla*	Meliaceae	Exotic	Casual	Tree	41079.964	19336.633	1.1	9
CCK1071	*Swietenia macrophylla*	Meliaceae	Exotic	Casual	Tree	41102.323	19324.226	1	8
CCK1072	*Swietenia macrophylla*	Meliaceae	Exotic	Casual	Tree	41127.219	19311.338	1.5	10
CCK1073	*Swietenia macrophylla*	Meliaceae	Exotic	Casual	Tree	41136.133	19307.518	2.35	12
CCK1074	*Swietenia macrophylla*	Meliaceae	Exotic	Casual	Tree	41147.704	19302.358	2	12
CCK1075	*Swietenia macrophylla*	Meliaceae	Exotic	Casual	Tree	41159.239	19296.272	1.5	11
CCK502	*Syzygium aqueum*	Myrtaceae	Exotic	Cultivated only	Tree	41980.855	19056.23	1.3	10
CCK044	*Syzygium* cf *malaccense*	Myrtaceae	Exotic	Casual	Tree	40523.577	19577.275	1.8	11
CCK987	*Syzygium cumini*	Myrtaceae	Exotic	Naturalised	Tree	43368.06	19343.719	2.2	10
CCK988	*Syzygium cumini*	Myrtaceae	Exotic	Naturalised	Tree	43368.626	19348.762	2	10
CCK989	*Syzygium cumini*	Myrtaceae	Exotic	Naturalised	Tree	43365.787	19362.612	1	8
CCK1301	*Syzygium polyanthum*	Myrtaceae	Native	Common	Tree	43319.05	19197.82	2.3	8
CCK915	*Syzygium polyanthum*	Myrtaceae	Native	Common	Tree	42921.988	19136.413	1	14
CCK217	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	40933.75999	19270.97193	2.6	10
CCK218	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	40941.50996	19254.61296	3.2	10

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK219	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	40953.88998	19256.9504	3	10
CCK220	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	40955.44005	19246.05544	2.8	10
CCK221	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	40968.14998	19242.92869	2.2	10
CCK222	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	40976.22999	19234.24856	3	10
CCK223	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	40981.08999	19227.23762	3.4	10
CCK224	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	40987.27996	19224.56694	1.75	10
CCK225	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	40991.48994	19222.78648	1.9	9
CCK226	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	40999.44998	19217.33368	1.85	10
CCK227	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	41009.94999	19213.2164	2.4	10
CCK228	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	41027.75996	19197.08035	3	8
CCK229	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	41079.39995	19170.48445	2.9	9
CCK230	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	41079.94999	19169.37159	2.8	9
CCK236	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	41104.94002	19170.4853	1.3	9
CCK237	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	41100.07001	19178.94296	3.6	10
CCK350	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	40972.2	19264.67	2.4	13
CCK351	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	40973.07	19258.12	1.6	13
CCK352	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	40973.31	19253.87	2.1	10
CCK353	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	40986.57	19243.09	2.4	10
CCK354	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	40990.56	19239.6	2.6	10
CCK355	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	40998.34	19241.34	1.3	10
CCK362	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	41012.74	19245	2	15
CCK363	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	41008.39	19241.83	2	15
CCK364	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	41011.74	19237.32	1.6	10
CCK366	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	41034.36	19218.1	1.4	7
CCK367	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	41039.46	19207.83	2.5	14
CCK368	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	41044.98	19200.55	3.6	14
CCK369	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	41051.3	19209.03	2.1	16
CCK370	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	41056.69	19211.35	2.2	12
CCK371	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	41060.37	19216.3	1.6	12
CCK378	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	41069.83	19211.11	2.4	15
CCK379	*Tabebuia rosea*	Bignoniaceae	Exotic	Casual	Tree	41069.99	19200.76	2.4	15
CCK1102	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43256.714	19224.884	1.1	11
CCK1103	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43260.141	19228.192	1.1	8
CCK1143	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43345.828	19245.134	1.2	10
CCK1144	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43351.985	19243.959	1.8	9
CCK1146	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43361.746	19245.509	1.1	8

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK1155	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43381.836	19248.683	2.5	5
CCK1164	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43408.813	19255.941	1.3	12
CCK1167	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43417.414	19256.672	1	9
CCK1173	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43427.876	19257.576	2.5	9
CCK1180	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43449.27	19262	1.5	7
CCK1184	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43461.745	19266.023	3.5	6
CCK1186	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43471.373	19267.598	1.1	10
CCK1187	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43442.03	19274.334	1.5	10
CCK1196	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43104.999	19175.505	1.2	12
CCK1214	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43003.587	19140.689	2.5	10
CCK1215	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	42992.332	19138.015	2.2	12
CCK1216	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	42988.307	19135.91	2	10
CCK1217	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	42984.538	19135.14	2	8
CCK1302	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43359.57	19208.22	1.1	6
CCK1303	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43365.89	19216.62	2.5	5
CCK1304	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43363.73	19211.63	1.3	5
CCK1305	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43373.24	19216.97	3	5
CCK1314	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43382.46	19221.53	1.4	5
CCK1315	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43383.95	19227.17	1.4	5
CCK1316	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43393.55	19217.1	1.7	5
CCK1320	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43407.25	19223.05	2.5	8
CCK1322	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43419.64	19224.77	3	6
CCK1328	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43428.75	19227.47	1.3	8
CCK1331	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43434.87	19233.37	2	6
CCK1340	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43468.72	19234.78	2	6
CCK1358	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43488.68	19236.81	1	8
CCK1359	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43501.81	19235.1	1.2	6
CCK1365	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43523.69	19247.87	1.8	6
CCK1390	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43575.57	19256.86	2.5	8
CCK1399	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43443	19236.57	2	6
CCK1411	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43625.67	19250.23	2.6	8
CCK1424	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43720.15	19240.44	3	8
CCK1501	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	42915.877	19088.531	1	8
CCK1507	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	42976.868	19105.983	1	12
CCK1510	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43026.009	19120.938	1.5	10
CCK1514	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43045.739	19130.207	1	10

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK1515	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43052.844	19130.812	1	12
CCK1522	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43107.667	19147.427	1.5	10
CCK2502	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44071.59	19198.82	1.3	6
CCK2505	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44065.85	19200.07	1.6	8
CCK2509	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44084.49	19210.24	1.1	8
CCK2510	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44099.55	19201.82	2	10
CCK2511	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44108.92	19204.03	2	10
CCK2512	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44108.78	19208.53	1.6	10
CCK2514	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44209.42	19188.07	1	8
CCK2516	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44203.84	19183.22	1.2	6
CCK2518	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44210.9	19184.25	2.6	10
CCK2520	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44229.92	19184.06	1.5	8
CCK2521	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44212.95	19184.18	1.6	8
CCK2522	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44245.19	19175.71	1.8	8
CCK2523	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44259.55	19173.42	1	6
CCK2524	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44256.84	19173.92	1.1	6
CCK2525	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44288.89	19175.4	1.2	6
CCK2526	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44290.52	19172.83	1.1	6
CCK2527	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44293.46	19178.43	1.3	6
CCK2529	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44313.56	19165.71	1.3	6
CCK2530	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44316.83	19164.01	1.3	8
CCK2532	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44329.33	19162.79	1.4	8
CCK2533	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44332.81	19164.65	1.3	8
CCK2534	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44339.15	19165.56	1.8	8
CCK2535	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44356.39	19166.37	2	8
CCK2536	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44369.88	19165.18	1.6	8
CCK2537	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44366.26	19170.14	2.1	8
CCK2538	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44376.17	19165.07	1.4	6
CCK2539	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44374.87	19153.79	1.6	8
CCK2545	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44398.48	19147.16	1.1	8
CCK2546	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44399.75	19132.57	1.9	10
CCK2547	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44417.21	19137.05	1.6	10
CCK2548	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44419.03	19126.4	1.5	10
CCK2549	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44433.25	19119.68	1.5	10
CCK2550	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44457.44	19129.35	1.4	12
CCK2551	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44472.72	19134.21	1.4	10

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK2552	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44453.22	19137.72	2.1	8
CCK2554	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44474.61	19123.17	1.4	10
CCK2557	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44467.66	19139.23	1.8	8
CCK2565	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44635.82	19115.04	1.2	8
CCK701	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43280.383	19194.826	1.3	8
CCK703	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43271.766	19194.659	1	6
CCK720	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43212.87	19182.537	1.3	10
CCK727	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43145.763	19158.689	1.5	12
CCK732	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43151.392	19163.405	1	6
CCK733	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43151.668	19161.301	1	6
CCK734	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43150.37	19159.869	2	6
CCK743	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43201.895	19177.813	1	8
CCK778	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	43147.063	19191.406	1	9
TR0288	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	45278.63899	19025.11048	1.2	15
TR0306	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	45273.4424	19012.75763	1.2	14
TR0307	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	45315.90323	19012.75912	1	8
TR0308	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	45315.35039	19011.75753	1	8
TR0311	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	45340.89346	19005.19259	1.1	16
TR0371	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	45325.74161	18997.99189	6 spread	9
TR0374	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	45285.39782	19005.07935	4 spread	8
TR0376	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	45210.68353	19018.93176	5 spread	8
TR0386	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	45124.45251	19035.92203	4 spread	7
TR1232	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	44990.36784	19080.85443	1.6	12
TR1235	*Talipariti tiliaceum*	Malvaceae	Native	Common	Tree	45004.52181	19070.50537	1.3	9
CCK508	*Tamarindus indica*	Fabaceae	Exotic	Casual	Tree	42062.905	19042.147	2	15
CCK040	*Terminalia catappa*	Combretaceae	Native	Common	Tree	40577.075	19564.046	2.4	16
CCK041	*Terminalia catappa*	Combretaceae	Native	Common	Tree	40575.939	19564.803	1.1	12
CCK042	*Terminalia catappa*	Combretaceae	Native	Common	Tree	40574.547	19569.08	1.8	12
CCK1213	*Terminalia catappa*	Combretaceae	Native	Common	Tree	43006.039	19141.241	1.1	11
CCK1500	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42908.454	19088.547	1	10
CCK1503	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42919.65	19091.215	1	10
CCK1506	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42973.862	19105.907	1	12
CCK1508	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42984.503	19108.571	1.5	12
CCK1509	*Terminalia catappa*	Combretaceae	Native	Common	Tree	43018.662	19120.385	1.5	12
CCK1512	*Terminalia catappa*	Combretaceae	Native	Common	Tree	43033.282	19122.795	1.2	12
CCK505	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42041.385	19043.288	4	18

Tag ID	Species	Family	Origin	Status	Habit	Northing	Easting	Girth/ spread (m)	Height (m)
CCK506	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42062.278	19039.149	1.2	8
CCK507	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42064.575	19036.944	1.2	15
CCK509	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42068.85	19051.473	1.1	15
CCK511	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42113.82	19036.659	1.5	15
CCK512	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42114.753	19044.514	2	15
CCK513	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42124.905	19048.792	1.3	15
CCK514	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42130.119	19049.06	2	17
CCK517	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42127.952	19033.008	1.8	15
CCK522	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42154.281	19047.972	1.4	15
CCK523	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42167.634	19027.517	1.8	15
CCK524	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42175.704	19024.283	3	20
CCK529	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42200.975	19023.626	2	15
CCK530	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42214.042	19038.505	3	20
CCK531	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42221.338	19036.204	1	20
CCK532	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42225.753	19035.193	3.5	20
CCK533	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42216.039	19019.732	3.2	20
CCK534	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42236.081	19035.545	1.2	20
CCK535	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42241.888	19036.732	1.5	20
CCK536	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42239.881	19034.2	1.8	20
CCK539	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42256.032	19034.313	1.8	20
CCK543	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42261.726	19028.897	1	15
CCK544	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42279.141	19025.299	1.5	15
CCK545	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42273.954	19024.58	1.5	15
CCK546	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42274.229	19016.211	1.1	15
CCK586	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42428.014	19045.122	1	12
CCK602	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42446.203	19044.422	1.8	18
CCK925	*Terminalia catappa*	Combretaceae	Native	Common	Tree	42502.885	19080.226	2.4	14
CCK1836	*Terminalia mantaly*	Combretaceae	Exotic	Cultivated only	Tree	42212.193	18941.256	1.2	12
CCK1837	*Terminalia mantaly*	Combretaceae	Exotic	Cultivated only	Tree	42221.447	18941.119	1.2	10
CCK387	*Terminalia mantaly*	Combretaceae	Exotic	Cultivated Only	Tree	40664.101	19601.971	1.2	11
CCK388	*Terminalia mantaly*	Combretaceae	Exotic	Cultivated Only	Tree	40668.056	19599.855	1.1	9
CCK396	*Terminalia mantaly*	Combretaceae	Exotic	Cultivated Only	Tree	40673.555	19609.814	1	9
CCK401	*Terminalia mantaly*	Combretaceae	Exotic	Cultivated Only	Tree	40679.863	19631.737	1	11
CCK402	*Terminalia mantaly*	Combretaceae	Exotic	Cultivated Only	Tree	40676.648	19635.302	1	9

Appendix G

Fauna species list

Faunal group	Total no. of probable threatened species	Total no. of recorded species	
	CS species	All species	CS species
Odonates	6	27	0
Dragonflies	4	23	0
Damselflies	2	4	0
Butterflies	15	59	3
Herpetofauna	1	23	0
Amphibians	0	11	0
Reptiles	1	12	0
Birds	33	99	18
Mammals	7	19	1
Non-volant Mammals	3	12	1
Bats	4	7	0
Fish	1	18	0
Molluscs	6	37	0
Decapods and Limulidae	13	11	2
Total	**82**	**293**	**24**

No.	Type	Family	Scientific Name	Common Name	Global Status (IUCN/CITES)	National Status (Soh & Ngiam, 2019)	Species of Conservation Significance	Distribution/Rarity (Soh et al. 2019)	Probable Species	Recorded Species
1	Damselfly	Coenagrionidae	*Agriocnemis femina*	Variable wisp	Least Concern	Least Concern	No	Widespread and Common	Yes	Yes
2	Damselfly	Coenagrionidae	*Agriocnemis pygmaea*	Wandering wisp	Least Concern	Least Concern	No	Widespread but Rare	Yes	No
3	Damselfly	Coenagrionidae	*Ceriagrion cerinorubellum*	Ornate coraltail	Least Concern	Least Concern	No	Widespread and Common	Yes	Yes
4	Damselfly	Coenagrionidae	*Ischnura senegalensis*	Common bluetail	Least Concern	Least Concern	No	Widespread and Common	Yes	Yes
5	Damselfly	Coenagrionidae	*Mortonagrion arthuri*	Arthur's midget	Near Threatened	Vulnerable	Yes	Restricted and Rare	Yes	No
6	Damselfly	Platycnemididae	*Onychargia atrocyana*	Shorttail	Least Concern	Least Concern	No	Widespread but Uncommon	Yes	Yes
7	Dragonfly	Aeshnidae	*Anax panybeus*	Arrow emperor	Least Concern	Least Concern	No	Widespread but Rare	Yes	No
8	Dragonfly	Aeshnidae	*Gynacantha basiguttata*	Spoon-tailed duskhawker	Least Concern	Vulnerable	Yes	Restricted and Rare	Yes	No
9	Dragonfly	Aeshnidae	*Gynacantha bayadera*	Small duskhawker	Least Concern	Least Concern	No	Widespread but Rare	Yes	No
10	Dragonfly	Aeshnidae	*Gynacantha subinterrupta*	Dingy duskhawker	Least Concern	Least Concern	No	Widespread but Uncommon	Yes	Yes
11	Dragonfly	Libellulidae	*Acisoma panorpoides*	Trumpet tail	Least Concern	Least Concern	No	Widespread and Common	Yes	Yes
12	Dragonfly	Libellulidae	*Aethriamanta gracilis*	Pond adjudant	Least Concern	Least Concern	No	Widespread and Common	Yes	Yes
13	Dragonfly	Libellulidae	*Agrionoptera insignis*	Grenadier	Least Concern	Least Concern	No	Widespread and Common	Yes	Yes
14	Dragonfly	Libellulidae	*Brachydiplax chalybea*	Blue dasher	Least Concern	Least Concern	No	Widespread and Common	Yes	Yes
15	Dragonfly	Libellulidae	*Chalybiothemis fluviatilis*	Green-eyed percher	Not Assessed	Vulnerable	Yes	Restricted and Uncommon	Yes	No
16	Dragonfly	Libellulidae	*Crocothemis servilia*	Common scarlet	Least Concern	Least Concern	No	Widespread and Common	Yes	Yes
17	Dragonfly	Libellulidae	*Diplacodes trivialis*	Blue percher	Least Concern	Least Concern	No	Widespread and Common	Yes	Yes
18	Dragonfly	Libellulidae	*Lathrecista asiatica*	Scarlet grenadier	Least Concern	Least Concern	No	Widespread and Common	Yes	Yes
19	Dragonfly	Libellulidae	*Macrodiplax cora*	Coastal glider	Least Concern	Least Concern	No	Widespread and Common	Yes	Yes
20	Dragonfly	Libellulidae	*Neurothemis fluctuans*	Common parasol	Least Concern	Least Concern	No	Widespread and Common	Yes	Yes
21	Dragonfly	Libellulidae	*Orthetrum chrysis*	Spine-tufted skimmer	Least Concern	Least Concern	No	Widespread and Common	Yes	Yes
22	Dragonfly	Libellulidae	*Orthetrum glaucum*	Common blue skimmer	Least Concern	Least Concern	No	Widespread and Common	Yes	Yes
23	Dragonfly	Libellulidae	*Orthetrum luzonicum*	Slender blue skimmer	Least Concern	Least Concern	No	Widespread and Common	Yes	Yes
24	Dragonfly	Libellulidae	*Orthetrum sabina*	Variegated green skimmer	Least Concern	Least Concern	No	Widespread and Common	Yes	Yes
25	Dragonfly	Libellulidae	*Orthetrum testaceum*	Scarlet skimmer	Least Concern	Least Concern	No	Widespread and Common	Yes	Yes
26	Dragonfly	Libellulidae	*Pantala flavescens*	Wandering glider	Least Concern	Least Concern	No	Widespread and Common	Yes	Yes
27	Dragonfly	Libellulidae	*Pseudothemis jorina*	Banded skimmer	Least Concern	Least Concern	No	Widespread but Uncommon	Yes	Yes
28	Dragonfly	Libellulidae	*Rhyothemis phyllis*	Yellow-barred flutterer	Least Concern	Least Concern	No	Widespread and Common	Yes	Yes
29	Dragonfly	Libellulidae	*Tholymis tillarga*	White-barred duskhawk	Least Concern	Least Concern	No	Widespread and Common	Yes	Yes
30	Dragonfly	Libellulidae	*Tramea transmarina*	Saddlebag glider	Least Concern	Least Concern	No	Widespread and Common	Yes	Yes
31	Dragonfly	Libellulidae	*Trithemis aurora*	Crimson dropwing	Least Concern	Least Concern	No	Widespread and Common	Yes	Yes
32	Dragonfly	Libellulidae	*Trithemis festiva*	Indigo dropwing	Least Concern	Least Concern	No	Widespread and Common	Yes	Yes
33	Dragonfly	Libellulidae	*Urothemis signata*	Scarlet basker	Not Assessed	Least Concern	No	Widespread and Common	Yes	Yes

No.	Family	Scientific Name	Common Name	Global Status (IUCN/CITES)	National Status (Davison et al., 2008; Jain et al, 2018)	Species of Conservation Significance	Distribution/ Abundance /Rarity (Khew, 2015)	Probable Species	Recorded Species
1	Hesperiidae	*Ampittia dioscorides camertes*	Bush hopper	Not Assessed	Not Assessed	No	Moderately common	Yes	Yes
2	Hesperiidae	*Astictopterus jama jama*	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	Yes	Moderately rare	Yes	No
3	Hesperiidae	*Borbo cinnara*	Formosan swift	Not Assessed	Endangered	Yes	Moderately common	Yes	Yes
4	Hesperiidae	*Caltoris cormasa*	Full stop swift	Not Assessed	Not Assessed	No	Moderately rare	Yes	Yes
5	Hesperiidae	*Caltoris malaya*	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	Yes	Moderately rare	Yes	No
6	Hesperiidae	*Cephrenes trichopepla*	Yellow palm dart	Not Assessed	Not Assessed	No	Common	Yes	Yes
7	Hesperiidae	*Iambrix salsala salsala*	Chestnut bob	Not Assessed	Not Assessed	No	Common	Yes	Yes
8	Hesperiidae	*Matapa aria*	Common redeye	Not Assessed	Not Assessed	No	Moderately rare	Yes	Yes
9	Hesperiidae	*Pelopidas agna agna*	Bengal swift	Not Assessed	Endangered	Yes	Moderately common	Yes	No
10	Hesperiidae	*Pelopidas mathias mathias*	Small branded swift	Not Assessed	Not Assessed	No	Common	Yes	Yes
11	Hesperiidae	*Polytremis lubricans lubricans*	Contiguous swift	Not Assessed	Not Assessed	No	Common	Yes	Yes
12	Hesperiidae	*Potanthus omaha omaha*	Lesser dart	Not Assessed	Not Assessed	No	Common	Yes	Yes
13	Hesperiidae	*Potanthus trachala tytleri*	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	Yes	Moderately rare	Yes	Yes
14	Hesperiidae	*Suastus gremius gremius*	Palm bob	Not Assessed	Not Assessed	No	Common	Yes	Yes
15	Hesperiidae	*Telicota colon stinga*	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	Yes	Moderately common	Yes	Yes
16	Hesperiidae	*Udaspes folus*	Grass demon	Not Assessed	Not Assessed	No	Moderately common	Yes	Yes
17	Lycaenidae	*Anthene emolus goberus*	Ciliate blue	Not Assessed	Not Assessed	No	Common	Yes	Yes
18	Lycaenidae	*Arhopala centaurus nakula*	Centaur oakblue	Not Assessed	Not Assessed	No	Moderately common	Yes	Yes
19	Lycaenidae	*Catopyrops ancyra*	Ancyra blue	Not Assessed	Vulnerable	Yes	Moderately rare	Yes	No
20	Lycaenidae	*Curetis saronis sumatrana*	Sumatran sunbeam	Not Assessed	Not Assessed	No	Moderately common	Yes	Yes
21	Lycaenidae	*Euchrysops cnejus cnejus*	Gram blue	Not Assessed	Not Assessed	No	Moderately common	Yes	Yes
22	Lycaenidae	*Jamides alecto ageladas*	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	Yes	Moderately rare	Yes	No
23	Lycaenidae	*Jamides bochus nabonassar*	Dark caerulean	Not Assessed	Not Assessed	No	Moderately rare	Yes	Yes
24	Lycaenidae	*Jamides celeno aelianus*	Common caerulean	Not Assessed	Not Assessed	No	Common	Yes	Yes
25	Lycaenidae	*Lampides boeticus*	Pea blue	Not Assessed	Not Assessed	No	Common	Yes	Yes
26	Lycaenidae	*Nacaduba angusta kerriana*	White fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Yes	Rare	Yes	No
27	Lycaenidae	*Nacaduba kurava nemana*	Transparent sixline blue	Not Assessed	Nationally Extinct (Rediscovered)	Yes	Moderately common	Yes	No
28	Lycaenidae	*Nacaduba pactolus odon*	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Yes	Moderately rare	Yes	No
29	Lycaenidae	*Nacaduba sanaya elioti*	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Yes	Moderately rare	Yes	No
30	Lycaenidae	*Nacaduba sp.*	Blue	N.A	N.A	N.A	N.A	Yes	Yes
31	Lycaenidae	*Prosotas dubiosa lumpura*	Tailless line blue	Not Assessed	Not Assessed	No	Common	Yes	Yes
32	Lycaenidae	*Rapala pheretima sequeira*	Copper flash	Not Assessed	Not Assessed	No	Moderately common	Yes	Yes
33	Lycaenidae	*Zizina otis lampa*	Lesser grass blue	Not Assessed	Not Assessed	No	Common	Yes	Yes
34	Lycaenidae	*Zizula hylax pygmaea*	Pygmy grass blue	Not Assessed	Not Assessed	No	Common	Yes	Yes
35	Nymphalidae	*Acraea terpsicore*	Tawny coster	Not Assessed	Not Assessed	No	Common	Yes	Yes
36	Nymphalidae	*Amathusia phidippus phidippus*	Palm king	Not Assessed	Not Assessed	No	Moderately rare	Yes	Yes
37	Nymphalidae	*Danaus chrysippus chrysippus*	Plain tiger	Not Assessed	Not Assessed	No	Common	Yes	Yes
38	Nymphalidae	*Doleschallia bisaltide bisaltide*	Autumn leaf	Not Assessed	Not Assessed	No	Common	Yes	Yes
39	Nymphalidae	*Elymnias hypermnestra agina*	Common palmfly	Not Assessed	Not Assessed	No	Common	Yes	Yes
40	Nymphalidae	*Euthalia sp.*	N.A	N.A	N.A	N.A	N.A	Yes	Yes
41	Nymphalidae	*Hypolimnas anomala anomala*	Malayan eggfly	Not Assessed	Not Assessed	No	Common	Yes	Yes
42	Nymphalidae	*Hypolimnas bolina bolina*	Great eggfly	Not Assessed	Not Assessed	No	Moderately common	Yes	Yes
43	Nymphalidae	*Hypolimnas bolina jacintha*	Jacintha eggfly	Not Assessed	Not Assessed	No	Common	Yes	Yes
44	Nymphalidae	*Ideopsis vulgaris macrina*	Blue glassy tiger	Not Assessed	Not Assessed	No	Common	Yes	Yes

No.	Family	Scientific Name	Common Name	Global Status (IUCN/CITES)	National Status (Davison et al., 2008; Jain et al, 2018)	Species of Conservation Significance	Distribution/ Abundance /Rarity (Khew, 2015)	Probable Species	Recorded Species
45	Nymphalidae	*Junonia almana javana*	Peacock pansy	Least Concern	Not Assessed	No	Common	Yes	Yes
46	Nymphalidae	*Junonia atlites atlites*	Grey pansy	Not Assessed	Not Assessed	No	Moderately common	Yes	Yes
47	Nymphalidae	*Junonia hedonia ida*	Chocolate pansy	Not Assessed	Not Assessed	No	Common	Yes	Yes
48	Nymphalidae	*Junonia orithya wallacei*	Blue pansy	Not Assessed	Not Assessed	No	Common	Yes	Yes
49	Nymphalidae	*Melanitis leda leda*	Common evening brown	Not Assessed	Not Assessed	No	Moderately rare	Yes	Yes
50	Nymphalidae	*Mycalesis mineus macromalayana*	Dark brand bush brown	Not Assessed	Not Assessed	No	Common	Yes	Yes
51	Nymphalidae	*Mycalesis perseoides perseoides*	Burmese bush brown	Not Assessed	Data Deficient	No	Common	Yes	Yes
52	Nymphalidae	*Mycalesis perseus cepheus*	Dingy bush brown	Not Assessed	Not Assessed	No	Moderately common	Yes	Yes
53	Nymphalidae	*Mycalesis visala phamis*	Long brand bush brown	Not Assessed	Not Assessed	No	Moderately common	Yes	Yes
54	Nymphalidae	*Neptis hylas papaja*	Common sailor	Not Assessed	Not Assessed	No	Moderately common	Yes	Yes
55	Nymphalidae	*Orsotriaena medus cinerea*	Dark grass brown	Not Assessed	Not Assessed	No	Common	Yes	Yes
56	Nymphalidae	*Parantica agleoides agleoides*	Dark glassy tiger	Not Assessed	Not Assessed	No	Common	Yes	Yes
57	Nymphalidae	*Phaedyma columella singa*	Short banded sailor	Not Assessed	Not Assessed	No	Common	Yes	Yes
58	Nymphalidae	*Phalanta phalantha phalantha*	Leopard	Not Assessed	Not Assessed	No	Common	Yes	Yes
59	Nymphalidae	*Polyura hebe plautus*	Plain nawab	Not Assessed	Not Assessed	No	Common	Yes	Yes
60	Papilionidae	*Graphium sarpedon luctatius*	Common bluebottle	Not Assessed	Not Assessed	No	Common	Yes	Yes
61	Papilionidae	*Pachliopta aristolochiae asteris*	Common rose	Not Assessed	Vulnerable	Yes	Moderately common	Yes	No
62	Papilionidae	*Papilio demoleus malayanus*	Lime butterfly	Not Assessed	Not Assessed	No	Common	Yes	Yes
63	Papilionidae	*Papilio polytes romulus*	Common mormon	Not Assessed	Not Assessed	No	Common	Yes	Yes
64	Papilionidae	*Troides helena cerberus*	Common birdwing	Not Assessed	Vulnerable	Yes	Moderately common	Yes	No
65	Pieridae	*Appias libythea olferna*	Striped albatross	Not Assessed	Not Assessed	No	Common	Yes	Yes
66	Pieridae	*Catopsilia pyranthe pyranthe*	Mottled emigrant	Not Assessed	Not Assessed	No	Common	Yes	Yes
67	Pieridae	*Delias hyparete metarete*	Painted jezebel	Not Assessed	Not Assessed	No	Common	Yes	Yes
68	Pieridae	*Eurema blanda snelleni*	Three spot grass yellow	Not Assessed	Not Assessed	No	Common	Yes	Yes
69	Pieridae	*Eurema brigitta senna*	No brand grass yellow	Not Assessed	Nationally Extinct (Rediscovered)	Yes	Very rare	Yes	No
70	Pieridae	*Eurema hecabe contubernalis*	Common grass yellow	Not Assessed	Not Assessed	No	Common	Yes	Yes
71	Pieridae	*Leptosia nina malayana*	Psyche	Not Assessed	Not Assessed	No	Common	Yes	Yes

No.	Type	Family	Scientific Name	Common Name	Global Status (IUCN/CITES)	National Status (NParks, 2021)	Species of Conservation Signficance	Distribution/ Abundance/ Rarity (Baker & Lim, 2012)	Native Status (Baker & Lim, 2012)	Probable Species	Recorded Species
1	Frog	Dicroglossidae	*Fejervarya cancrivora*	Crab-eating frog	Least Concern	Least Concern	No	Widespread and Common	Native	Yes	Yes
2	Frog	Dicroglossidae	*Fejervarya limnocharis*	Field frog	Least Concern	Least Concern	No	Widespread and Common	Native	Yes	Yes
3	Frog	Dicroglossidae	*Limnonectes blythii*	Malayan giant frog	Near Threatened	Least Concern	No	Widespread and Common	Native	Yes	Yes
4	Frog	Eleutherodactylidae	*Eleutherodactylus planirostris*	Greenhouse frog	Least Concern	Not Assessed	No	Widespread and Common	Non-native	Yes	Yes
5	Frog	Microhylidae	*Kaloula pulchra*	Banded bull frog	Least Concern	Not Assessed	No	Widespread and Common	Non-native	Yes	Yes
6	Frog	Microhylidae	*Microhyla butleri*	Painted chorus frog	Least Concern	Least Concern	No	Widespread and Common	Native	Yes	Yes
7	Frog	Microhylidae	*Microhyla heymonsi*	Dark-sided chorus frog	Least Concern	Least Concern	No	Widespread and Common	Native	Yes	Yes
8	Frog	Microhylidae	*Microhyla mukhlesuri*	East Asian ornate chorus frog	Least Concern	Not Assessed	No	Restricted and Rare	Non-native	Yes	Yes
9	Frog	Ranidae	*Sylvirana guentheri*	Guenther's frog	Least Concern	Not Assessed	No	Widespread but Uncommon	Non-native	Yes	Yes
10	Frog	Rhacophoridae	*Polypedates leucomystax*	Four-lined tree frog	Least Concern	Least Concern	No	Widespread and Common	Native	Yes	Yes
11	Toad	Bufonidae	*Duttaphrynus melanostictus*	Asian toad	Least Concern	Least Concern	No	Widespread and Common	Native	Yes	Yes

No.	Type	Family	Scientific Name	Common Name	Global Status (IUCN/CITES)	National Status (NParks, 2021)	Species of Conservation Signficance	Distribution/ Abundance/ Rarity (Baker & Lim, 2012)	Native Status (Baker & Lim, 2012)	Probable Species	Recorded Species
1	Marine crocodile	Crocodylidae	*Crocodylus porosus*	Estuarine crocodile	Least Concern	Critically Endangered	Yes	Widespread but Rare	Native	Yes	No
2	Non-marine lizard	Agamidae	*Bronchocela cristatella*	Green crested lizard	Not Assessed	Least Concern	No	Widespread but Uncommo	Native	Yes	Yes
3	Non-marine lizard	Agamidae	*Calotes versicolor*	Changeable lizard	Not Assessed	Not Assessed	No	Widespread and Common	Non-native	Yes	Yes
4	Non-marine lizard	Gekkonidae	*Gekko monarchus*	Spotted house gecko	Not Assessed	Not Assessed	No	Widespread and Common	Native	Yes	Yes
5	Non-marine lizard	Gekkonidae	*Hemidactylus frenatus*	Spiny-tailed house gecko	Least Concern	Least Concern	No	Widespread and Common	Native	Yes	Yes
6	Non-marine lizard	Scincidae	*Eutropis multifasciata*	Many-lined sun skink	Not Assessed	Least Concern	No	Widespread and Common	Native	Yes	Yes
7	Non-marine lizard	Scincidae	*Lygosoma bowringii*	Garden supple skink	Not Assessed	Least Concern	No	Widespread and Common	Native	Yes	Yes
8	Non-marine snake	Colubridae	*Ahaetulla prasina*	Oriental whip snake	Least Concern	Least Concern	No	Widespread and Common	Native	Yes	Yes
9	Non-marine snake	Colubridae	*Chrysopelea pelias*	Twin-barred gliding snake	Least Concern	Near Threatened	No	Restricted and Rare	Native	Yes	Yes
10	Non-marine snake	Colubridae	*Dendrelaphis caudolineatus*	Striped bronzeback	Least Concern	Least Concern	No	Widespread and Common	Native	Yes	Yes
11	Non-marine snake	Colubridae	*Dendrelaphis pictus*	Painted bronzeback	Least Concern	Least Concern	No	Widespread and Common	Native	Yes	Yes
12	Non-marine snake	Elapidae	*Naja sumatrana*	Equatorial spitting cobra	Least Concern	Not Assessed	No	Widespread and Common	Native	Yes	Yes
13	Non-marine turtle	Emydidae	*Trachemys scripta*	Red-eared slider	Least Concern	Not Assessed	No	Widespread and Common	Non-native	Yes	Yes

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1	Acanthizidae	*Gerygone sulphurea*	Golden-bellied gerygone	Least Concern	Near Threatened	No	Common	Resident breeder	Yes	Yes
2	Accipitridae	Accipiter trivirgatus	Crested goshawk	Least Concern	Near Threatened	No	Uncommon	Resident breeder	Yes	No
3	Accipitridae	*Aquila heliaca*	Eastern imperial eagle	Vulnerable	Not Evaluated	Yes	Rare	Winter visitor	Yes	No
4	Accipitridae	*Aquila nipalensis*	Steppe eagle	Endangered	Not Evaluated	Yes	Rare	Winter visitor	Yes	No
5	Accipitridae	*Aviceda leuphotes*	Black baza	Least Concern	Least Concern	No	Common	Passage migrant	Yes	Yes
6	Accipitridae	*Clanga clanga*	Greater spotted eagle	Vulnerable	Vulnerable	Yes	Rare	Winter visitor	Yes	No
7	Accipitridae	*Haliaeetus ichthyaetus*	Grey-headed fish eagle	Near Threatened	Vulnerable	Yes	Uncommon	Resident breeder	Yes	Yes
8	Accipitridae	*Haliaeetus leucogaster*	White-bellied sea eagle	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
9	Accipitridae	*Haliastur indus*	Brahminy kite	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
10	Accipitridae	*Nisaetus cirrhatus*	Changeable hawk-eagle	Least Concern	Vulnerable	Yes	Common	Resident breeder	Yes	Yes
11	Accipitridae	*Pernis ptilorhynchus*	Crested honey-buzzard	Least Concern	Least Concern	No	Common	Passage migrant	Yes	Yes
12	Accipitridae	*Spilornis cheela*	Crested serpent eagle	Least Concern	Critically Endangered	Yes	Rare	Resident, breeding not proven	Yes	No
13	Acrocephalidae	*Acrocephalus orientalis*	Oriental reed warbler	Least Concern	Vulnerable	Yes	Common	Winter visitor	Yes	Yes
14	Aegithinidae	*Aegithina tiphia*	Common iora	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
15	Alcedinidae	*Alcedo atthis*	Common kingfisher	Least Concern	Vulnerable	Yes	Common	Winter visitor	Yes	Yes
16	Alcedinidae	*Alcedo meninting*	Blue-eared kingfisher	Least Concern	Endangered	Yes	Uncommon	Resident breeder	Yes	No
17	Alcedinidae	*Halcyon coromanda*	Ruddy kingfisher	Least Concern	Critically Endangered	Yes	Uncommon	Resident breeder	Yes	No
18	Alcedinidae	*Halcyon pileata*	Black-capped kingfisher	Least Concern	Vulnerable	Yes	Uncommon	Winter visitor	Yes	Yes
19	Alcedinidae	*Halcyon smyrnensis*	White-throated kingfisher	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
20	Alcedinidae	*Pelargopsis capensis*	Stork-billed kingfisher	Least Concern	Least Concern	No	Uncommon	Resident breeder	Yes	Yes
21	Alcedinidae	*Todiramphus chloris*	Collared kingfisher	Least Concern	Least Concern	No	Abundant	Resident breeder	Yes	Yes
22	Apodidae	*Aerodramus sp.*	N.A	N.A	N.A	N.A	N.A	N.A	Yes	Yes
23	Ardeidae	*Ardea alba*	Great egret	Least Concern	Vulnerable	Yes	Common	Non-breeding visitor	Yes	Yes
24	Ardeidae	*Ardea cinerea*	Grey heron	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
25	Ardeidae	*Ardea intermedia*	Intermediate egret	Least Concern	Least Concern	No	Uncommon	Non-breeding visitor	Yes	Yes
26	Ardeidae	*Ardea purpurea*	Purple heron	Least Concern	Endangered	Yes	Uncommon	Resident breeder	Yes	Yes
27	Ardeidae	*Ardea sumatrana*	Great-billed heron	Least Concern	Critically Endangered	Yes	Uncommon	Resident breeder	Yes	No
28	Ardeidae	*Ardeola sp.*	N.A	N.A	N.A	N.A	N.A	N.A	Yes	Yes
29	Ardeidae	*Butorides striata*	Striated heron	Least Concern	Near Threatened	No	Common	Resident breeder	Yes	Yes
30	Ardeidae	*Egretta eulophotes*	Chinese egret	Vulnerable	Endangered	Yes	Rare	Winter visitor	Yes	No
31	Ardeidae	*Egretta garzetta*	Little egret	Least Concern	Least Concern	No	Common	Non-breeding visitor	Yes	Yes
32	Ardeidae	*Ixobrychus sinensis*	Yellow bittern	Least Concern	Vulnerable	Yes	Common	Resident breeder	Yes	Yes
33	Ardeidae	*Nycticorax nycticorax*	Black-crowned night heron	Least Concern	Endangered	Yes	Uncommon	Resident breeder	Yes	Yes
34	Bucerotidae	*Anthracoceros albirostris*	Oriental pied hornbill	Least Concern	Near Threatened	No	Common	Introduced resident breeder	Yes	No
35	Campephagidae	*Lalage nigra*	Pied triller	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
36	Campephagidae	*Pericrocotus divaricatus*	Ashy minivet	Least Concern	Least Concern	No	Common	Winter visitor	Yes	Yes
37	Caprimulgidae	*Caprimulgus affinis*	Savanna nightjar	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
38	Caprimulgidae	*Caprimulgus macrurus*	Large-tailed nightjar	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
39	Charadriidae	*Vanellus indicus*	Red-wattled lapwing	Least Concern	Near Threatened	No	Common	Resident breeder	Yes	No
40	Ciconiidae	*Leptoptilos javanicus*	Lesser adjutant	Vulnerable	Vulnerable	Yes	Rare	Non-breeding visitor	Yes	No
41	Cisticolidae	*Orthotomus ruficeps*	Ashy tailorbird	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
42	Cisticolidae	*Orthotomus sericeus*	Rufous-tailed tailorbird	Least Concern	Near Threatened	No	Uncommon	Resident breeder	Yes	Yes

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43	Cisticolidae	*Orthotomus sutorius*	Common tailorbird	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
44	Cisticolidae	*Prinia flaviventris*	Yellow-bellied prinia	Least Concern	Near Threatened	No	Common	Resident breeder	Yes	Yes
45	Columbidae	*Chalcophaps indica*	Common emerald dove	Least Concern	Least Concern	No	Uncommon	Resident breeder	Yes	Yes
46	Columbidae	*Columba livia*	Rock dove	Least Concern	Not Listed	No	Abundant	Introduced resident breeder	Yes	Yes
47	Columbidae	*Ducula bicolor*	Pied imperial pigeon	Least Concern	Data Deficient	No	Uncommon	Introduced resident breeder	Yes	Yes
48	Columbidae	*Geopelia striata*	Zebra dove	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
49	Columbidae	*Spilopelia chinensis*	Spotted dove	Least Concern	Least Concern	No	Abundant	Resident breeder	Yes	Yes
50	Columbidae	*Treron vernans*	Pink-necked green pigeon	Least Concern	Least Concern	No	Abundant	Resident breeder	Yes	Yes
51	Coraciidae	*Eurystomus orientalis*	Oriental dollarbird	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
52	Corvidae	*Corvus macrorhynchos*	Large-billed crow	Least Concern	Vulnerable	Yes	Uncommon	Resident breeder	Yes	Yes
53	Corvidae	*Corvus splendens*	House crow	Least Concern	Not Listed	No	Common	Introduced resident breeder	Yes	Yes
54	Cuculidae	*Cacomantis sepulcralis*	Rusty-breasted cuckoo	Least Concern	Near Threatened	No	Uncommon	Resident breeder	Yes	No
55	Cuculidae	*Cacomantis sonneratii*	Banded bay cuckoo	Least Concern	Least Concern	No	Uncommon	Resident breeder	Yes	Yes
56	Cuculidae	*Centropus bengalensis*	Lesser coucal	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
57	Cuculidae	*Centropus sinensis*	Greater coucal	Least Concern	Near Threatened	No	Uncommon	Resident breeder	Yes	Yes
58	Cuculidae	*Chrysococcyx minutillus*	Little bronze-cuckoo	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
59	Cuculidae	*Chrysococcyx xanthorhynchus*	Violet cuckoo	Least Concern	Vulnerable	Yes	Uncommon	Resident breeder	Yes	No
60	Cuculidae	*Cuculus micropterus*	Indian cuckoo	Least Concern	Least Concern	No	Uncommon	Winter visitor	Yes	Yes
61	Cuculidae	*Eudynamys scolopaceus*	Asian koel	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
62	Cuculidae	*Surniculus lugubris*	Square-tailed drongo-cuckoo	Least Concern	Vulnerable	Yes	Uncommon	Resident breeder	Yes	No
63	Dicaeidae	*Dicaeum cruentatum*	Scarlet-backed flowerpecker	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
64	Estrildidae	*Lonchura leucogastroides*	Javan munia	Least Concern	Not Listed	N.A	Uncommon	Introduced resident breeder	Yes	Yes
65	Estrildidae	*Lonchura punctulata*	Scaly-breasted munia	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
66	Estrildidae	*Lonchura striata*	White-rumped munia	Least Concern	Critically Endangered	Yes	Rare	Resident breeder	Yes	No
67	Hirundinidae	*Hirundo rustica*	Barn swallow	Least Concern	Near Threatened	No	Abundant	Winter visitor	Yes	Yes
68	Hirundinidae	*Hirundo tahitica*	Pacific swallow	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
69	Laniidae	*Lanius cristatus*	Brown shrike	Least Concern	Vulnerable	Yes	Common	Winter visitor	Yes	Yes
70	Laniidae	*Lanius tigrinus*	Tiger shrike	Least Concern	Near Threatened	No	Common	Winter visitor	Yes	Yes
71	Leiothrichidae	*Garrulax leucolophus*	White-crested laughingthrush	Least Concern	Not Listed	No	Common	Introduced resident breeder	Yes	Yes
72	Locustellidae	*Helopsaltes certhiola*	Pallas's grasshopper warbler	Least Concern	Least Concern	No	Common	Winter visitor	Yes	Yes
73	Megalaimidae	*Psilopogon haemacephalus*	Coppersmith barbet	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
74	Megalaimidae	*Psilopogon lineatus*	Lineated barbet	Least Concern	Not Listed	No	Common	Introduced resident breeder	Yes	Yes
75	Meropidae	*Merops philippinus*	Blue-tailed bee-eater	Least Concern	Least Concern	No	Common	Winter visitor	Yes	Yes
76	Meropidae	*Merops viridis*	Blue-throated bee-eater	Least Concern	Least Concern	No	Common	Migrant breeder	Yes	Yes
77	Motacillidae	*Anthus rufulus*	Paddyfield pipit	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
78	Muscicapidae	*Copsychus saularis*	Oriental magpie-robin	Least Concern	Vulnerable	Yes	Uncommon	Resident breeder	Yes	Yes
79	Muscicapidae	*Cyornis brunneatus*	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	Yes	Uncommon	Winter visitor	Yes	No
80	Muscicapidae	*Ficedula zanthopygia*	Yellow-rumped flycatcher	Least Concern	Least Concern	No	Uncommon	Passage migrant	Yes	Yes
81	Muscicapidae	*Muscicapa dauurica*	Asian brown flycatcher	Least Concern	Least Concern	No	Common	Winter visitor	Yes	Yes
82	Nectariniidae	*Anthreptes malacensis*	Brown-throated sunbird	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
83	Nectariniidae	*Cinnyris jugularis*	Olive-backed sunbird	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
84	Oriolidae	*Oriolus chinensis*	Black-naped oriole	Least Concern	Least Concern	No	Abundant	Resident breeder	Yes	Yes

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85	Passeridae	*Passer montanus*	Eurasian tree sparrow	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
86	Phasianidae	*Gallus gallus*	Red junglefowl	Least Concern	Near Threatened	No	Common	Resident breeder	Yes	Yes
87	Phasianidae	*Pavo cristatus*	Indian peafowl	Least Concern	Not Listed	No	NA	Introduced	Yes	Yes
88	Phylloscopidae	*Phylloscopus borealis*	Arctic warbler	Least Concern	Least Concern	No	Common	Winter visitor	Yes	Yes
89	Phylloscopidae	*Phylloscopus inornatus*	Yellow-browed warbler	Least Concern	Least Concern	No	Rare	Passage migrant	Yes	Yes
90	Picidae	*Chrysophlegma miniaceum*	Banded woodpecker	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
91	Picidae	*Dinopium javanense*	Common flameback	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
92	Picidae	*Micropternus brachyurus*	Rufous woodpecker	Least Concern	Least Concern	No	Uncommon	Resident breeder	Yes	Yes
93	Picidae	*Picus vittatus*	Laced woodpecker	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
94	Picidae	*Yungipicus moluccensis*	Sunda pygmy woodpecker	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
95	Pittidae	*Pitta megarhyncha*	Mangrove pitta	Near Threatened	Critically Endangered	Yes	Uncommon	Resident breeder	Yes	No
96	Pittidae	*Pitta moluccensis*	Blue-winged pitta	Least Concern	Least Concern	No	Uncommon	Winter visitor	Yes	Yes
97	Ploceidae	*Ploceus philippinus*	Baya weaver	Least Concern	Vulnerable	Yes	Uncommon	Resident breeder	Yes	Yes
98	Psittaculidae	*Loriculus galgulus*	Blue-crowned hanging-parrot	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
99	Psittaculidae	*Psittacula alexandri*	Red-breasted parakeet	Near Threatened	Not Listed	No	Common	Introduced resident breeder	Yes	Yes
100	Psittaculidae	*Psittacula krameri*	Rose-ringed parakeet	Least Concern	Not Listed	No	Common	Introduced resident breeder	Yes	Yes
101	Psittaculidae	*Psittacula longicauda*	Long-tailed parakeet	Vulnerable	Near Threatened	Yes	Common	Resident breeder	Yes	Yes
102	Psittaculidae	*Trichoglossus haematodus*	Coconut lorikeet	Least Concern	Not Listed	No	Uncommon	Introduced resident breeder	Yes	Yes
103	Pycnonotidae	*Pycnonotus aurigaster*	Sooty-headed bulbul	Least Concern	Not Listed	No	Uncommon	Introduced resident breeder	Yes	Yes
104	Pycnonotidae	*Pycnonotus goiavier*	Yellow-vented bulbul	Least Concern	Least Concern	No	Abundant	Resident breeder	Yes	Yes
105	Pycnonotidae	*Pycnonotus plumosus*	Olive-winged bulbul	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
106	Pycnonotidae	*Pycnonotus zeylanicus*	Straw-headed bulbul	Critically Endangered	Endangered	Yes	Uncommon	Resident breeder	Yes	Yes
107	Rallidae	*Amaurornis phoenicurus*	White-breasted waterhen	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
108	Rallidae	*Lewinia striata*	Slaty-breasted rail	Least Concern	Least Concern	No	Uncommon	Resident breeder	Yes	Yes
109	Rallidae	*Rallina fasciata*	Red-legged crake	Least Concern	Near Threatened	No	Uncommon	Resident breeder	Yes	Yes
110	Rhipiduridae	*Rhipidura javanica*	Malaysian pied fantail	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
111	Scolopacidae	*Actitis hypoleucos*	Common sandpiper	Least Concern	Vulnerable	Yes	Common	Winter visitor	Yes	Yes
112	Strigidae	*Ketupa ketupu*	Buffy fish owl	Least Concern	Vulnerable	Yes	Uncommon	Resident breeder	Yes	No
113	Strigidae	*Strix seloputo*	Spotted wood owl	Least Concern	Vulnerable	Yes	Uncommon	Resident breeder	Yes	Yes
114	Sturnidae	*Acridotheres javanicus*	Javan myna	Least Concern	Not Listed	No	Abundant	Introduced resident breeder	Yes	Yes
115	Sturnidae	*Aplonis panayensis*	Asian glossy starling	Least Concern	Least Concern	No	Abundant	Resident breeder	Yes	Yes
116	Sturnidae	*Gracula religiosa*	Common hill myna	Least Concern	Near Threatened	No	Uncommon	Resident breeder	Yes	Yes
117	Timaliidae	*Mixornis gularis*	Pin-striped tit-babbler	Least Concern	Least Concern	No	Common	Resident breeder	Yes	Yes
118	Zosteropidae	*Zosterops simplex*	Swinhoe's white-eye	Least Concern	Vulnerable	Yes	Common	Introduced resident breeder	Yes	Yes

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1	Canidae	*Canis lupus familiaris*	Feral dog	Not Assessed	Not Assessed	No	N.A	Non-native	Yes	Yes
2	Cercopithecidae	*Macaca fascicularis*	Long-tailed macaque	Endangered	Least Concern	Yes	Widespread and Common	Native	Yes	No
3	Felidae	*Felis catus*	Feral cat	Not Assessed	Not Assessed	No	N.A	Non-native	Yes	Yes
4	Manidae	*Manis javanica*	Sunda pangolin	Critically Endangered	Critically Endangered	Yes	Widespread but Rare	Native	Yes	No
5	Muridae	*Mus musculus*	House mouse	Least Concern	Not Assessed	No	Widespread and Common	Native	Yes	Yes
6	Muridae	*Rattus norvegicus*	Brown rat	Least Concern	Not Assessed	No	Widespread and Common	Non-native	Yes	Yes
7	Muridae	*Rattus tanezumi*	Asian house rat	Least Concern	Least Concern	No	Widespread and Common	Native	Yes	Yes
8	Muridae	*Rattus tiomanicus*	Malaysian wood rat	Least Concern	Least Concern	No	Widespread and Common	Native	Yes	Yes
9	Mustelidae	*Lutrogale perspicillata*	Smooth otter	Vulnerable	Endangered	Yes	Widespread but Rare	Native	Yes	Yes
10	Sciuridae	*Callosciurus notatus*	Plantain squirrel	Least Concern	Not Assessed	No	Widespread and Common	Native	Yes	Yes
11	Soricidae	*Suncus murinus*	House shrew	Least Concern	Not Assessed	No	Widespread and Common	Native	Yes	Yes
12	Suidae	*Sus scrofa*	Eurasian wild boar	Least Concern	Least Concern	No	Widespread and Common	Native	Yes	Yes
13	Tupaiidae	*Tupaia glis*	Common treeshrew	Least Concern	Not Assessed	No	Widespread and Common	Native	Yes	Yes
14	Viverridae	*Paradoxurus musangus*	Sumatran palm civet	Least Concern	Least Concern	No	Widespread but Uncommon	Native	Yes	Yes

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1	Emballonuridae	*Saccolaimus saccolaimus*	Pouch-bearing bat	Least Concern	Least Concern	No	Widespread and Common	Native	Yes	Yes
2	Emballonuridae	*Taphozous melanopogon*	Black-bearded tomb bat	Least Concern	Least Concern	No	Widespread but Rare	Native	Yes	Yes
3	Pteropodidae	*Cynopterus brachyotis*	Lesser dog-faced fruit bat	Least Concern	Not Assessed	No	Widespread and Common	Native	Yes	No
4	Pteropodidae	*Eonycteris spelaea*	Cave nectar bat	Least Concern	Vulnerable	Yes	Widespread but Uncommon	Native	Yes	No
5	Pteropodidae	*Macroglossus minimus*	Lesser long-tongued nectar bat	Least Concern	Vulnerable	Yes	Restricted and Rare	Native	Yes	No
6	Pteropodidae	*N.A*	Fruit bat	N.A	N.A	N.A	N.A	N.A	N.A	Yes
7	Rhinolophidae	*Rhinolophus refulgens*	Glossy horseshoe bat	Least Concern	Not Assessed	No	Restricted but Common	Native	Yes	Yes
8	Vespertilionidae	*Myotis muricola*	Whiskered myotis	Least Concern	Least Concern	No	Widespread and Common	Native	Yes	Yes
9	Vespertilionidae	*Pipistrellus javanicus*	Javan pipistrelle	Least Concern	Not Assessed	No	Widespread but Uncommon	Native	Yes	Yes
10	Vespertilionidae	*Scotophilus kuhlii*	Asiatic lesser yellow house bat	Least Concern	Least Concern	No	Widespread and Common	Native	Yes	Yes
11	Vespertilionidae	*Tylonycteris fulvida*	Lesser bamboo bat	Least Concern	Vulnerable	Yes	Restricted and Rare	Native	Yes	No
12	Vespertilionidae	*Tylonycteris malayana*	Greater bamboo bat	Least Concern	Vulnerable	Yes	Widespread and Common	Native	Yes	No

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1	Adrianichthyidae	*Oryzias javanicus*	Javanese ricefish	Least Concern	Not Assessed	Native	No	Yes	Yes
2	Channidae	*Channa micropeltes*	Giant snakehead/toman	Least Concern	Not Assessed	Non-native	No	Yes	Yes
3	Cichlidae	*Cichlasoma urophthalmum*	Mayan cichlid	Least Concern	Not Assessed	Non-native	No	Yes	Yes
4	Cichlidae	*Heterotilapia buttikoferi*	Bumblebee tilapia	Least Concern	Not Assessed	Non-native	No	Yes	Yes
5	Dasyatidae	*Himantura uarnak*	Honeycomb ray	Endangered	Not Assessed	N.A	Yes	Yes	No
6	Eleotridae	*Butis butis/humeralis*	N.A	N.A	N.A	Native	N.A	Yes	Yes
7	Eleotridae	*Ophiocara porocephala*	Snakehead gudgeon	Least Concern	Not Assessed	N.A	No	Yes	Yes
8	Gobiidae	*Acentrogobius janthinopterus*	Robust mangrove goby / green-spotted goby	Least Concern	Not Assessed	N.A	No	Yes	Yes
9	Gobiidae	*Brachygobius kabiliensis*	Bumblebee goby	Least Concern	Not Assessed	Native	No	Yes	Yes
10	Gobiidae	*Eugnathogobius variegatus*	Stripe-face brackish goby	Least Concern	Not Assessed	N.A	No	Yes	Yes
11	Gobiidae	*Pandaka pygmaea*	Pygmy goby	Data Deficient	Not Assessed	N.A	No	Yes	No
12	Gobiidae	*Pseudogobius javanicus*	Java fat-nose goby	Not Assessed	Not Assessed	Native	No	Yes	Yes
13	Gobiidae	*Rhinogobius similis*	Barcheek goby	Least Concern	Not Assessed	Non-native	No	Yes	Yes
14	Gobiidae	*Stigmatogobius sadanundio*	Grey knight goby	Not Assessed	Not Assessed	Native	No	Yes	Yes
15	Gobionellidae	*Mugilogobius chulae*	N.A	N.A	N.A	N.A	N.A	Yes	Yes
16	N.A	*Batoidea (Order)*	Ray	N.A	N.A	Non-native	N.A	Yes	Yes
17	Phallostethidae	*Neostethus lankesteri*	One-horned priapus fish	Least Concern	Not Assessed	Native	No	Yes	Yes
18	Poeciliidae	*Poecilia sphenops*	Green molly	Least Concern	Not Assessed	Non-native	No	Yes	Yes
19	Toxotidae	*Toxotes jaculatrix*	Banded archerfish	Least Concern	Not Assessed	Native	No	Yes	Yes
20	Zenarchopteridae	*Dermogenys collettei*	Sunda pygmy halfbeak	Least Concern	Not Assessed	Native	No	Yes	Yes

No	Family	Scientific name	Common name	Global Status (IUCN/CITES)	National Status (Davison et al., 2008)	Species of Conservation Significance	Native status	Probable Species	Recorded Species
1	Achatinidae	*Achatina fulica*	N.A	Not Assessed	Not Assessed	No	Non-native	Yes	Yes
2	Arcidae	*Tegillarca granosa*	Blood cockle	Not Assessed	Not Assessed	No	N.A	Yes	Yes
3	Assimineidae	*Optediceros breviculum*	N.A	Not Assessed	Not Assessed	No	N.A	Yes	Yes
4	Cardiidae	N.A	N.A	N.A	N.A	N.A	N.A	Yes	Yes
5	Cerithiidae	*Cerithium traillii*	Traill's cerith	Not Assessed	Endangered	Yes	N.A	Yes	No
6	Cyrenidae	*Geloina coaxans*	N.A	Not Assessed	Not Assessed	No	N.A	Yes	Yes
7	Cyrenidae	*Geloina expansa*	Giant mud clam, lokan	Not Assessed	Not Assessed	No	N.A	Yes	Yes
8	Donacidae	*Donax sp.*	N.A	N.A	N.A	N.A	N.A	Yes	Yes
9	Ellobiidae	*Cassidula sp.*	N.A	N.A	N.A	N.A	Native	Yes	Yes
10	Ellobiidae	*Ellobium aurisjudae*	N.A	Least Concern	Not Assessed	No	Native	Yes	Yes
11	Ellobiidae	*Ellobium aurismidae*	Mida's ear shell	Least Concern	Not Assessed	No	Native	Yes	Yes
12	Glauconomidae	*Glauconome sp.*	N.A	N.A	N.A	N.A	N.A	Yes	Yes
13	Laternulidae	*Exolaternula spengleri*	N.A	N.A	N.A	N.A	N.A	Yes	Yes
14	Littorinidae	*Littoraria melanostoma*	N.A	Not Assessed	Not Assessed	No	N.A	Yes	Yes
15	Muricidae	*Chicoreus capucinus*	Mangrove murex	Not Assessed	Not Assessed	No	N.A	Yes	Yes
16	Muricidae	*Murex trapa*	Rare-spinned murex	Endangered	Not Assessed	Yes	N.A	Yes	No
17	Muricidae	*Indothais gradata*	N.A	Not Assessed	Not Assessed	No	N.A	Yes	No
18	Mytilidae	*Arcuatula senhousia*	N.A	Not Assessed	Not Assessed	No	N.A	Yes	Yes
19	Mytilidae	*Mytella strigata*	N.A	Not Assessed	Not Assessed	No	Non-native	Yes	Yes
20	Mytilidae	*Mytilopsis adamsi*	N.A	N.A	N.A	N.A	N.A	Yes	Yes
21	Mytilidae	*Xenostrobus sp.*	N.A	Not Assessed	Not Assessed	No	N.A	Yes	Yes
22	Nassariidae	*Nassarius jacksonianus*	Mud whelk	Not Assessed	Not Assessed	No	N.A	Yes	Yes
23	Neritidae	*Clithon oualaniense*	N.A	Least Concern	Vulnerable	Yes	N.A	Yes	No
24	Neritidae	*Nerita balteata*	Lined nerite	Not Assessed	Not Assessed	No	N.A	Yes	Yes
25	Neritidae	*Nerita planospira*	Flat-spire nerite	Not Assessed	Vulnerable	Yes	N.A	Yes	No
26	Neritidae	*Neritina cornucopia*	N.A	Not Assessed	Not Assessed	No	Native	Yes	Yes
27	Onchidiidae	N.A	Onch slug	N.A	N.A	N.A	N.A	Yes	Yes
28	Onchidiidae	*Platevindex luteus*	N.A	Not Assessed	Not Assessed	No	N.A	Yes	Yes
29	*Ostreidae*	N.A	N.A	N.A	N.A	N.A	N.A	Yes	Yes
30	Physidae	*Physa acuta*	N.A	N.A	N.A	N.A	Non-native	Yes	Yes
31	Pinnidae	*Pinna bicolor*	Two-colloured fan shell	Not Assessed	Vulnerable	Yes	N.A	Yes	No
32	Pinnidae	*Pinna incurva*	Fan mussel	Critically Endangered	Not Assessed	Yes	N.A	Yes	No
33	Potamididae	*Cerithidea obtusa*	Chut-chut	Not Assessed	Not Assessed	No	N.A	Yes	Yes
34	Potamididae	*Telescopium telescopium*	Telescope snail	Least Concern	Not Assessed	No	Native	Yes	Yes
35	Psammobiidae	*Gari sp.*	N.A	N.A	N.A	N.A	N.A	Yes	Yes
36	Thiaridae	*Melanoides tuberculata*	N.A	Least Concern	Not Assessed	No	Native	Yes	Yes
37	Thiaridae	*Sermyla riquetii*	N.A	Least Concern	Not Assessed	No	Native	Yes	Yes
38	Thiaridae	*Tarebia granifera*	N.A	Least Concern	Not Assessed	No	Indeterminate	Yes	Yes
39	Thiaridae	*Thiara scabra*	N.A	N.A	N.A	N.A	N.A	Yes	Yes
40	Ungulinidae	*Diplodonta sp.*	N.A	Not Assessed	Not Assessed	No	N.A	Yes	Yes
41	Veneridae	*cf. Ruditapes philippinarum*	N.A	N.A	N.A	N.A	N.A	Yes	Yes
42	Veneridae	*Marcia japonica*	N.A	Not Assessed	Not Assessed	No	N.A	Yes	Yes
43	Veneridae	*Neotrapezium sublaevigatum*	N.A	N.A	N.A	N.A	N.A	Yes	Yes
44	Veneridae	*Paphia sp.*	N.A	N.A	N.A	N.A	Native	Yes	Yes

No.	Type	Family	Scientific Name	Common Name	Global Status (IUCN/CITES)	National Status (Davison et al., 2008)	Species of Conservation Significance	Native Status	Probable Species	Recorded Species
1	Decapod	Alpheidae	*Athanas japonicus*	N.A	Not Assessed	Vulnerable	Yes	N.A	Yes	No
2	Decapod	Alpheidae	*Athanas polymorphus*	N.A	Not Assessed	Vulnerable	Yes	N.A	Yes	No
3	Decapod	Alpheidae	*Potamalpheops johnsoni*	N.A	Not Assessed	Vulnerable	Yes	N.A	Yes	No
4	Decapod	Alpheidae	*Potamalpheops tigger*	N.A	Not Assessed	Vulnerable	Yes	N.A	Yes	No
5	Decapod	Alpheidae	*Salmoneus singaporensis*	N.A	Not Assessed	Critically Endangered	Yes	N.A	Yes	No
6	Decapod	Camptandriidae	*Baruna trigranulum*	N.A	Not Assessed	Not Assessed	No	N.A	Yes	Yes
7	Decapod	Camptandriidae	*cf. Ilyogynnis microcheirum*	N.A	N.A	N.A	N.A	Native	Yes	Yes
8	Decapod	Camptandriidae	*Paracleistostoma depressum*	N.A	Not Assessed	Not Assessed	No	Native	Yes	Yes
9	Decapod	Dotillidae	*Ilyoplax delsmani*	N.A	Not Assessed	Vulnerable	Yes	Native	Yes	No
10	Decapod	Ocypodidae	*N.A*	N.A	N.A	N.A	N.A	N.A	Yes	Yes
11	Decapod	Ocypodidae	*Uca rosea*	Rosy fiddler crab	Not Assessed	Endangered	Yes	Native	Yes	No
12	Decapod	Palaemonidae	*Macrobrachium sp.*	N.A	N.A	N.A	N.A	N.A	Yes	Yes
13	Decapod	Sesarmidae	*Perisesarma eumolpe*	N.A	Not Assessed	Not Assessed	No	N.A	Yes	Yes
14	Decapod	Sesarmidae	*Sarmatium germaini*	N.A	Not Assessed	Endangered	Yes	N.A	Yes	No
15	Decapod	Sesarmidae	*cf. Sarmatium germaini*	N.A	N.A	N.A	N.A	Native	Yes	Yes
16	Decapod	Sesarmidae	*Episesarma chentongense*	N.A	N.A	N.A	N.A	Native	Yes	Yes
17	Decapod	Thalassinidae	*Thalassina anomala*	N.A	Not Assessed	Endangered	Yes	Native	Yes	No
18	Decapod	Thalassinidae	*Thalassina gracilis*	N.A	Not Assessed	Endangered	Yes	Native	Yes	No
19	Decapod	Thalassinidae	*Thalassina sp.*	N.A	N.A	N.A	N.A	N.A	N.A	Yes*
20	Decapod	Upogebiidae	*Wolffogebia phuketensis*	N.A	Not Assessed	Endangered	Yes	Native	Yes	No
21	Decapod	Varunidae	*Metaplax elegans*	Orange fiddler crab	Not Assessed	Not Assessed	No	N.A	Yes	Yes
22	Xiphosurid	Limulidae	*Carcinoscorpius rotundicauda*	Mangrove horseshoe crab	Data Deficient	Vulnerable	Yes	Native	Yes	Yes

*These species could potentially be found in the mud lobster mounds that were scattered in the habitat. The presence of mounds was used as an indication of the mud lobster.

No.	Type	Family	Scientific Name	Common Name	Global Status (IUCN/CITES)	National Status (NParks, 2021)	Species of Conservation Significance	Native Status (NParks, 2021)	Probable Species	Recorded Species
1	Algae	Bryopsidaceae	*Bryopsis sp.*	N.A	N.A	N.A	N.A	N.A	Yes	Yes
2	Platyhelminthes	Callioplanidae	*Meixneria furva*	NA	Not Assessed	Data deficient	No	Native	Yes	Yes
3	Algae	Cladophoraceae	*Chaetomorpha sp.*	N.A	N.A	N.A	N.A	N.A	Yes	Yes
4	Playhelminthes	Limnostylochidae	*Limnostylochus sp.*	NA	Not Assessed	Not Assessed	No	N.A	Yes	Yes
5	Polycheate	N.A	*Polychaeta* (class)	N.A	N.A	N.A	N.A	N.A	Yes	Yes
6	Algae	N.A	*Rhodophyta*	N.A	N.A	N.A	N.A	N.A	Yes	Yes
7	Polycheate	Nereididae	*Neanthes glandicincta (cf. Ceratonereis burmensis)*	N.A	N.A	N.A	N.A	Native	Yes	Yes
8	Nemertea	Prosorhochmidae	*Pantinonemertes sp.*	N.A	Not Assessed	Endangered	Yes	N.A	Yes	No
9	Algae	Rhodomelaceae	*Acanthophora sp.*	N.A	N.A	N.A	N.A	N.A	Yes	Yes
10	Algae	Ulvaceae	*Ulva flexuosa*	N.A	N.A	N.A	N.A	N.A	Yes	Yes

Appendix H

Faunal survey data

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
4/2/2021	1.42272	103.75354	N.A	22:15	Amphibian	*Microhyla mukhlesuri*	2	Seen	Targeted
4/2/2021	1.42272	103.75354	N.A	22:15	Amphibian	*Sylvirana guentheri*	2	Heard	Targeted
4/2/2021	1.42272	103.75354	N.A	22:15	Bird	*Rallina fasciata*	1	Seen	Targeted
4/2/2021	1.42272	103.75354	N.A	22:15	Fish	*Oryzias javanicus*	20	Seen	Targeted
4/2/2021	1.42272	103.75354	N.A	22:15	Fish	*Calamiana variegata*	1	Seen	Targeted
4/2/2021	1.42272	103.75354	N.A	22:15	Fish	*Dermogenys collettei*	60	Seen	Targeted
10/2/2021	1.42272	103.75354	N.A	15:23	Bird	*Chalcophaps indica*	1	Heard	Incidental
10/2/2021	1.42272	103.75354	N.A	15:23	Bird	*Mixornis gularis*	1	Heard	Incidental
10/2/2021	1.42272	103.75354	N.A	15:23	Fish	*Oryzias javanicus*	10	Seen	Targeted
10/2/2021	1.42272	103.75354	N.A	15:23	Fish	*Dermogenys collettei*	50	Seen	Targeted
10/2/2021	1.394444006	103.752965	N.A	731	Bird	Aerodramus sp.	2	Seen	Incidental
10/2/2021	1.394527992	103.752988	N.A	731	Bird	Acridotheres javanicus	2	Seen	Incidental
10/2/2021	1.394527992	103.752988	N.A	731	Bird	Spilopelia chinensis	1	Seen	Incidental
10/2/2021	1.394731002	103.752964	N.A	732	Bird	Treron vernans	4	Seen	Incidental
10/2/2021	1.394731002	103.752964	N.A	732	Bird	Acridotheres javanicus	2	Seen	Incidental
10/2/2021	1.394983968	103.752925	N.A	733	Bird	Acridotheres javanicus	5	Seen	Incidental
10/2/2021	1.395276999	103.752879	N.A	733	Bird	Aerodramus sp.	3	Seen	Incidental
10/2/2021	1.395276999	103.752879	N.A	733	Bird	Oriolus chinensis	1	Heard	Incidental
10/2/2021	1.395276999	103.752879	N.A	733	Bird	Treron vernans	4	Seen	Incidental
10/2/2021	1.395730963	103.752818	N.A	736	Bird	Treron vernans	6	Seen	Incidental
10/2/2021	1.395730963	103.752818	N.A	736	Bird	Aerodramus sp.	4	Seen	Incidental
10/2/2021	1.395730963	103.752818	N.A	736	Bird	Zosterops simplex	1	Seen	Incidental
10/2/2021	1.395931961	103.752777	N.A	738	Bird	Aegithina tiphia	1	Heard	Incidental
10/2/2021	1.395931961	103.752777	N.A	738	Bird	Aplonis panayensis	3	Seen	Incidental
10/2/2021	1.396162966	103.752756	N.A	738	Bird	Unidentified Ardeidae	1	Seen	Incidental
10/2/2021	1.396162966	103.752756	N.A	738	Bird	Aplonis panayensis	10	Seen	Incidental
10/2/2021	1.396162966	103.752756	N.A	738	Bird	Eudynamys scolopaceus	1	Seen	Incidental

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
10/2/2021	1.396319959	103.752732	N.A	740	Mammal	Callosciurus notatus	1	Seen	Incidental
10/2/2021	1.396319959	103.752732	N.A	740	Bird	Acridotheres javanicus	2	Seen	Incidental
10/2/2021	1.396532021	103.752455	N.A	741	Bird	Acridotheres javanicus	3	Seen	Incidental
10/2/2021	1.396532021	103.752455	N.A	741	Bird	Copsychus saularis	1	Heard	Incidental
10/2/2021	1.396532021	103.752455	N.A	741	Bird	Cinnyris jugularis	1	Heard	Incidental
10/2/2021	1.396953966	103.752418	N.A	742	Bird	Aegithina tiphia	1	Heard	Incidental
10/2/2021	1.397211961	103.752357	N.A	743	Mammal	Callosciurus notatus	1	Seen	Incidental
10/2/2021	1.397722	103.752272	N.A	744	Bird	Oriolus chinensis	1	Heard	Incidental
10/2/2021	1.397872036	103.752277	N.A	745	Bird	Psittacula alexandri	1	Seen	Incidental
10/2/2021	1.397988964	103.752242	N.A	745	Bird	Pycnonotus plumosus	2	Seen	Incidental
10/2/2021	1.397988964	103.752242	N.A	745	Bird	Anthreptes malacensis	1	Seen	Incidental
10/2/2021	1.397988964	103.752242	N.A	745	Bird	Todiramphus chloris	1	Seen	Incidental
10/2/2021	1.398248971	103.752291	N.A	747	Bird	Treron vernans	2	Seen	Incidental
10/2/2021	1.398248971	103.752291	N.A	747	Bird	Psittacula alexandri	1	Heard	Incidental
10/2/2021	1.398248971	103.752291	N.A	747	Bird	Hirundo tahitica	1	Seen	Incidental
10/2/2021	1.398248971	103.752291	N.A	747	Bird	Zosterops simplex	1	Heard	Incidental
10/2/2021	1.398554994	103.752233	N.A	749	Bird	Treron vernans	1	Seen	Incidental
10/2/2021	1.398823969	103.752208	N.A	750	Bird	Ardeola sp.	1	Seen	Incidental
10/2/2021	1.399002001	103.752232	N.A	751	Bird	Zosterops simplex	2	Seen	Incidental
10/2/2021	1.399002001	103.752232	N.A	751	Bird	Treron vernans	1	Seen	Incidental
10/2/2021	1.399002001	103.752232	N.A	751	Bird	Psittacula alexandri	1	Seen	Incidental
10/2/2021	1.399294026	103.752221	N.A	752	Bird	Acridotheres javanicus	1	Seen	Incidental
10/2/2021	1.399294026	103.752221	N.A	752	Bird	Aplonis panayensis	7	Seen	Incidental
10/2/2021	1.399491001	103.752283	N.A	752	Bird	Oriolus chinensis	1	Seen	Incidental
10/2/2021	1.399491001	103.752283	N.A	752	Bird	Pycnonotus goiavier	1	Seen	Incidental
10/2/2021	1.400098018	103.752285	N.A	754	Bird	Egretta garzetta	1	Seen	Incidental
10/2/2021	1.400098018	103.752285	N.A	754	Reptile	Varanus salvator	1	Seen	Incidental

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
10/2/2021	1.400098018	103.752285	N.A	754	Bird	Lonchura punctulata	11	Seen	Incidental
10/2/2021	1.400191979	103.752289	N.A	756	Bird	Butorides striata	1	Seen	Incidental
10/2/2021	1.400191979	103.752289	N.A	756	Bird	Geopelia striata	3	Seen	Incidental
10/2/2021	1.400253	103.75229	N.A	758	Bird	Aplonis panayensis	15	Seen	Incidental
10/2/2021	1.400354002	103.752326	N.A	758	Bird	Oriolus chinensis	2	Seen	Incidental
10/2/2021	1.400432037	103.752339	N.A	759	Bird	Butorides striata	2	Seen	Incidental
10/2/2021	1.400432037	103.752339	N.A	759	Bird	Acridotheres javanicus	2	Seen	Incidental
10/2/2021	1.400432037	103.752339	N.A	759	Bird	Pycnonotus goiavier	1	Seen	Incidental
10/2/2021	1.400759015	103.752417	N.A	801	Bird	Eudynamys scolopaceus	1	Seen	Incidental
10/2/2021	1.400759015	103.752417	N.A	801	Bird	Pericrocotus divaricatus	1	Seen	Incidental
10/2/2021	1.400759015	103.752417	N.A	801	Bird	Aplonis panayensis	6	Seen	Incidental
10/2/2021	1.400759015	103.752417	N.A	801	Bird	Loriculus galgulus	1	Heard	Incidental
10/2/2021	1.400742	103.752404	N.A	803	Bird	Columba livia	2	Seen	Incidental
10/2/2021	1.400742	103.752404	N.A	803	Mammal	Lutrogale perspicillata	7	Seen	Incidental
10/2/2021	1.400742	103.752404	N.A	803	Bird	Orthotomus sutorius	1	Heard	Incidental
10/2/2021	1.400869992	103.752451	N.A	804	Reptile	Calotes versicolor	1	Seen	Incidental
10/2/2021	1.400869992	103.752451	N.A	804	Bird	Treron vernans	4	Seen	Incidental
10/2/2021	1.400869992	103.752451	N.A	804	Bird	Ardeola sp.	1	Seen	Incidental
10/2/2021	1.400869992	103.752451	N.A	804	Bird	Acridotheres javanicus	1	Seen	Incidental
10/2/2021	1.401023967	103.752485	N.A	806	Bird	Pycnonotus goiavier	2	Seen	Incidental
10/2/2021	1.401063027	103.752505	N.A	806	Reptile	Calotes versicolor	1	Seen	Incidental
10/2/2021	1.401323033	103.752581	N.A	807	Bird	Acridotheres javanicus	12	Seen	Incidental
10/2/2021	1.401606007	103.752652	N.A	809	Bird	Actitis hypoleucos	1	Seen	Incidental
10/2/2021	1.401624028	103.752652	N.A	811	N.A	Unidentified sp.	1	Seen	Incidental
10/2/2021	1.401624028	103.752652	N.A	811	Bird	Loriculus galgulus	1	Seen	Incidental
10/2/2021	1.401624028	103.752652	N.A	811	Bird	Treron vernans	2	Seen	Incidental
10/2/2021	1.401902977	103.752756	N.A	812	Bird	Acridotheres javanicus	1	Seen	Incidental

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
10/2/2021	1.401902977	103.752756	N.A	812	Bird	Oriolus chinensis	1	Heard	Incidental
10/2/2021	1.402354008	103.752938	N.A	814	Bird	Acridotheres javanicus	2	Seen	Incidental
10/2/2021	1.402354008	103.752938	N.A	814	Bird	Psilopogon haemacephalus	1	Heard	Incidental
10/2/2021	1.402354008	103.752938	N.A	814	Bird	Aegithina tiphia	1	Heard	Incidental
10/2/2021	1.402354008	103.752938	N.A	814	Bird	Butorides striata	1	Seen	Incidental
10/2/2021	1.402493985	103.752967	N.A	818	Bird	Aerodramus sp.	2	Seen	Incidental
10/2/2021	1.402493985	103.752967	N.A	818	Bird	Zosterops simplex	2	Seen	Incidental
10/2/2021	1.402493985	103.752967	N.A	818	Bird	Corvus splendens	1	Seen	Incidental
10/2/2021	1.402493985	103.752967	N.A	818	Bird	Hirundo tahitica	1	Seen	Incidental
10/2/2021	1.403074013	103.753156	N.A	818	Bird	Merops philippinus	1	Seen	Incidental
10/2/2021	1.403394034	103.753281	N.A	820	Bird	Helopsaltes certhiola	1	Heard	Incidental
10/2/2021	1.403394034	103.753281	N.A	820	Bird	Acridotheres javanicus	2	Seen	Incidental
10/2/2021	1.403522026	103.753317	N.A	821	Bird	Amaurornis phoenicurus	5	Seen	Incidental
10/2/2021	1.403522026	103.753317	N.A	821	Bird	Eudynamys scolopaceus	1	Heard	Incidental
10/2/2021	1.403522026	103.753317	N.A	821	Bird	Pycnonotus goiavier	2	Seen	Incidental
10/2/2021	1.403991999	103.753473	N.A	823	Reptile	Trachemys scripta	1	Seen	Incidental
10/2/2021	1.403991999	103.753473	N.A	823	Bird	Butorides striata	1	Seen	Incidental
10/2/2021	1.403991999	103.753473	N.A	823	Bird	Oriolus chinensis	2	Seen	Incidental
10/2/2021	1.40422401	103.753508	N.A	826	Bird	Prinia flaviventris	1	Heard	Incidental
10/2/2021	1.404358037	103.753593	N.A	826	Bird	Pycnonotus goiavier	2	Seen	Incidental
10/2/2021	1.404358037	103.753593	N.A	826	Bird	Merops philippinus	2	Seen	Incidental
10/2/2021	1.404358037	103.753593	N.A	826	Bird	Acridotheres javanicus	2	Seen	Incidental
10/2/2021	1.404358037	103.753593	N.A	826	Bird	Butorides striata	1	Seen	Incidental
10/2/2021	1.404358037	103.753593	N.A	826	Bird	Treron vernans	2	Seen	Incidental
10/2/2021	1.404676968	103.753714	N.A	830	Reptile	Calotes versicolor	1	Seen	Incidental
10/2/2021	1.404676968	103.753714	N.A	830	Bird	Aplonis panayensis	3	Seen	Incidental
10/2/2021	1.404761039	103.753709	N.A	831	Bird	Dicaeum cruentatum	1	Seen	Incidental

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
10/2/2021	1.404761039	103.753709	N.A	831	Bird	Psittacula krameri	2	Seen	Incidental
10/2/2021	1.404761039	103.753709	N.A	831	Bird	Aerodramus sp.	14	Seen	Incidental
10/2/2021	1.404761039	103.753709	N.A	831	Bird	Columba livia	1	Seen	Incidental
10/2/2021	1.405040994	103.753823	N.A	832	Bird	Acridotheres javanicus	2	Seen	Incidental
10/2/2021	1.405597972	103.753996	N.A	834	Bird	Pycnonotus goiavier	1	Heard	Incidental
10/2/2021	1.405597972	103.753996	N.A	834	Bird	Oriolus chinensis	1	Heard	Incidental
10/2/2021	1.405758988	103.754165	N.A	836	Bird	Pavo cristatus	1	Heard	Incidental
10/2/2021	1.405758988	103.754165	N.A	836	Bird	Gallus gallus (domestic)	1	Heard	Incidental
10/2/2021	1.405758988	103.754165	N.A	836	Bird	Amaurornis phoenicurus	1	Heard	Incidental
10/2/2021	1.405758988	103.754165	N.A	836	Bird	Trichoglossus haematodus	1	Heard	Incidental
10/2/2021	1.405758988	103.754165	N.A	836	Bird	Gallus gallus (domestic)	1	Heard	Incidental
10/2/2021	1.406209012	103.754167	N.A	840	Bird	Aplonis panayensis	2	Seen	Incidental
10/2/2021	1.406269027	103.754221	N.A	840	Bird	Todiramphus chloris	1	Seen	Incidental
10/2/2021	1.406269027	103.754221	N.A	840	Bird	Cinnyris jugularis	1	Heard	Incidental
10/2/2021	1.406532973	103.754275	N.A	842	Bird	Pycnonotus goiavier	1	Heard	Incidental
10/2/2021	1.406532973	103.754275	N.A	842	Bird	Zosterops simplex	2	Seen	Incidental
10/2/2021	1.406611009	103.754294	N.A	843	Bird	Phylloscopus inornatus	1	Seen	Incidental
10/2/2021	1.406611009	103.754294	N.A	843	Mammal	Callosciurus notatus	1	Seen	Incidental
10/2/2021	1.406611009	103.754294	N.A	843	Bird	Orthotomus ruficeps	1	Heard	Incidental
10/2/2021	1.406611009	103.754294	N.A	843	Bird	Columba livia	1	Seen	Incidental
10/2/2021	1.406723997	103.754331	N.A	844	Bird	Ardea sp.	1	Seen	Incidental
10/2/2021	1.407219032	103.75448	N.A	846	Bird	Anthreptes malacensis	1	Heard	Incidental
10/2/2021	1.407219032	103.75448	N.A	846	Bird	Todiramphus chloris	1	Seen	Incidental
10/2/2021	1.407219032	103.75448	N.A	846	Bird	Corvus splendens	2	Seen	Incidental
10/2/2021	1.407219032	103.75448	N.A	846	Bird	Ducula bicolor	2	Seen	Incidental
10/2/2021	1.407219032	103.75448	N.A	846	Bird	Psittacula alexandri	2	Seen	Incidental
10/2/2021	1.407476021	103.754595	N.A	847	Bird	Corvus splendens	1	Seen	Incidental

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
10/2/2021	1.407686993	103.754332	N.A	849	Bird	Centropus sp.	1	Seen	Incidental
10/2/2021	1.407686993	103.754332	N.A	849	Bird	Columba livia	1	Seen	Incidental
10/2/2021	1.407972984	103.754118	N.A	851	Bird	Acridotheres javanicus	4	Seen	Incidental
10/2/2021	1.407972984	103.754118	N.A	851	Reptile	Calotes versicolor	1	Seen	Incidental
10/2/2021	1.408480005	103.75429	N.A	852	Bird	Aerodramus sp.	1	Seen	Incidental
10/2/2021	1.408480005	103.75429	N.A	852	Bird	Aplonis panayensis	4	Seen	Incidental
10/2/2021	1.408480005	103.75429	N.A	852	Bird	Oriolus chinensis	1	Seen	Incidental
10/2/2021	1.408480005	103.75429	N.A	852	Bird	Psittacula alexandri	5	Seen	Incidental
10/2/2021	1.408480005	103.75429	N.A	852	Bird	Orthotomus sutorius	1	Heard	Incidental
10/2/2021	1.408480005	103.75429	N.A	852	Bird	Treron vernans	2	Seen	Incidental
10/2/2021	1.408480005	103.75429	N.A	852	Bird	Dicaeum cruentatum	2	Seen	Incidental
10/2/2021	1.408480005	103.75429	N.A	852	Bird	Corvus splendens	1	Seen	Incidental
10/2/2021	1.408699024	103.754318	N.A	856	Reptile	Varanus salvator	1	Seen	Incidental
10/2/2021	1.408699024	103.754318	N.A	856	Mammal	Callosciurus notatus	1	Seen	Incidental
10/2/2021	1.409141002	103.7544	N.A	856	Bird	Treron vernans	1	Seen	Incidental
10/2/2021	1.409141002	103.7544	N.A	856	Bird	Aplonis panayensis	1	Heard	Incidental
10/2/2021	1.409394974	103.754406	N.A	856	Bird	Pycnonotus goiavier	2	Seen	Incidental
10/2/2021	1.409394974	103.754406	N.A	856	Bird	Cinnyris jugularis	2	Seen	Incidental
10/2/2021	1.409394974	103.754406	N.A	856	Bird	Orthotomus ruficeps	1	Heard	Incidental
10/2/2021	1.409484996	103.754426	N.A	857	Bird	Aegithina tiphia	1	Heard	Incidental
10/2/2021	1.40951802	103.754533	N.A	857	Bird	Rhipidura javanica	1	Seen	Incidental
10/2/2021	1.40951802	103.754533	N.A	900	Bird	Psittacula alexandri	1	Seen	Incidental
10/2/2021	1.40951802	103.754533	N.A	900	Bird	Eudynamys scolopaceus	1	Seen	Incidental
10/2/2021	1.40951802	103.754533	N.A	900	Bird	Todiramphus chloris	1	Heard	Incidental
10/2/2021	1.409868971	103.754499	N.A	901	Bird	Orthotomus ruficeps	1	Heard	Incidental
10/2/2021	1.409868971	103.754499	N.A	901	Bird	Hirundo tahitica	1	Seen	Incidental
10/2/2021	1.409942983	103.7545	N.A	902	Bird	Cinnyris jugularis	2	Seen	Incidental

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
10/2/2021	1.409942983	103.7545	N.A	902	Bird	Aegithina tiphia	1	Heard	Incidental
10/2/2021	1.410083966	103.75451	N.A	902	Bird	Psittacula alexandri	1	Seen	Incidental
10/2/2021	1.410083966	103.75451	N.A	902	Bird	Pycnonotus goiavier	2	Seen	Incidental
10/2/2021	1.410432989	103.754528	N.A	903	Bird	Eudynamys scolopaceus	1	Heard	Incidental
10/2/2021	1.410432989	103.754528	N.A	903	Bird	Acridotheres javanicus	2	Seen	Incidental
10/2/2021	1.410432989	103.754528	N.A	903	Bird	Corvus splendens	2	Seen	Incidental
10/2/2021	1.410432989	103.754528	N.A	903	Bird	Zosterops simplex	1	Heard	Incidental
10/2/2021	1.411289033	103.754372	N.A	907	Bird	Todiramphus chloris	1	Seen	Incidental
10/2/2021	1.411289033	103.754372	N.A	907	Bird	Aplonis panayensis	1	Seen	Incidental
10/2/2021	1.411289033	103.754372	N.A	907	Bird	Oriolus chinensis	1	Seen	Incidental
10/2/2021	1.411543004	103.754374	N.A	907	Bird	Corvus splendens	1	Seen	Incidental
10/2/2021	1.411543004	103.754374	N.A	907	Bird	Pycnonotus goiavier	1	Heard	Incidental
10/2/2021	1.41172397	103.754365	N.A	908	Bird	Aplonis panayensis	1	Heard	Incidental
10/2/2021	1.41172397	103.754365	N.A	908	Bird	Psittacula alexandri	4	Seen	Incidental
10/2/2021	1.411854979	103.754345	N.A	908	Bird	Acridotheres javanicus	1	Seen	Incidental
10/2/2021	1.411939971	103.754315	N.A	910	Bird	Spilopelia chinensis	1	Heard	Incidental
10/2/2021	1.411939971	103.754315	N.A	910	Bird	Lalage nigra	1	Seen	Incidental
10/2/2021	1.411939971	103.754315	N.A	910	Bird	Acridotheres javanicus	2	Seen	Incidental
10/2/2021	1.411939971	103.754315	N.A	910	Bird	Aplonis panayensis	2	Seen	Incidental
10/2/2021	1.412211964	103.754274	N.A	911	Bird	Pycnonotus goiavier	1	Seen	Incidental
10/2/2021	1.412429977	103.75425	N.A	912	Bird	Gallus gallus (domestic)	7	Seen	Incidental
10/2/2021	1.412492003	103.754236	N.A	912	Bird	Pycnonotus goiavier	2	Seen	Incidental
10/2/2021	1.412492003	103.754236	N.A	912	Bird	Haliastur indus	1	Seen	Incidental
10/2/2021	1.412492003	103.754236	N.A	912	Bird	Picus vittatus	2	Seen	Incidental
10/2/2021	1.412492003	103.754236	N.A	912	Bird	Hirundo tahitica	1	Seen	Incidental
10/2/2021	1.412492003	103.754236	N.A	912	Bird	Aegithina tiphia	1	Heard	Incidental
10/2/2021	1.412716974	103.754211	N.A	914	Bird	Aerodramus sp.	15	Seen	Incidental

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
10/2/2021	1.412716974	103.754211	N.A	914	Bird	Columba livia	10	Seen	Incidental
10/2/2021	1.412858041	103.754222	N.A	915	Bird	Prinia flaviventris	1	Heard	Incidental
10/2/2021	1.412878996	103.754218	N.A	916	Bird	Acridotheres javanicus	1	Seen	Incidental
10/2/2021	1.412878996	103.754218	N.A	916	Bird	Gallus gallus (domestic)	3	Seen	Incidental
10/2/2021	1.412878996	103.754218	N.A	916	Bird	Eudynamys scolopaceus	1	Heard	Incidental
10/2/2021	1.413272023	103.754137	N.A	917	Bird	Aplonis panayensis	13	Seen	Incidental
10/2/2021	1.413272023	103.754137	N.A	917	Bird	Corvus splendens	1	Seen	Incidental
10/2/2021	1.413646024	103.754073	N.A	918	Bird	Columba livia	1	Seen	Incidental
10/2/2021	1.413807962	103.754044	N.A	919	Bird	Pycnonotus goiavier	2	Seen	Incidental
10/2/2021	1.414094036	103.753988	N.A	924	Bird	Psittacula alexandri	1	Seen	Incidental
10/2/2021	1.414244995	103.753946	N.A	925	Bird	Rhipidura javanica	1	Seen	Incidental
10/2/2021	1.414244995	103.753946	N.A	925	Bird	Gallus gallus (domestic)	1	Seen	Incidental
10/2/2021	1.414697031	103.753883	N.A	928	Bird	Ardea purpurea	1	Seen	Incidental
10/2/2021	1.414697031	103.753883	N.A	928	Bird	Pycnonotus goiavier	1	Seen	Incidental
10/2/2021	1.414697031	103.753883	N.A	928	Bird	Oriolus chinensis	1	Seen	Incidental
10/2/2021	1.414900962	103.753865	N.A	928	Bird	Acridotheres javanicus	3	Seen	Incidental
10/2/2021	1.415088968	103.753786	N.A	928	Bird	Oriolus chinensis	1	Seen	Incidental
10/2/2021	1.415088968	103.753786	N.A	928	Bird	Todiramphus chloris	1	Heard	Incidental
10/2/2021	1.415888015	103.75364	N.A	931	Bird	Aplonis panayensis	1	Seen	Incidental
10/2/2021	1.416969029	103.753486	N.A	933	Bird	Rhipidura javanica	1	Heard	Incidental
10/2/2021	1.416969029	103.753486	N.A	933	Bird	Spilopelia chinensis	1	Seen	Incidental
10/2/2021	1.417492982	103.753378	N.A	934	Bird	Oriolus chinensis	1	Seen	Incidental
10/2/2021	1.418031016	103.753306	N.A	935	Bird	Phylloscopus borealis	1	Heard	Incidental
10/2/2021	1.418031016	103.753306	N.A	935	Bird	Aplonis panayensis	2	Heard	Incidental
10/2/2021	1.418031016	103.753306	N.A	935	Bird	Cinnyris jugularis	2	Seen	Incidental
10/2/2021	1.418522028	103.753239	N.A	937	Mammal	Callosciurus notatus	1	Seen	Incidental
10/2/2021	1.418742975	103.753184	N.A	938	Bird	Acridotheres javanicus	1	Seen	Incidental

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
10/2/2021	1.418836014	103.753136	N.A	939	Bird	Aegithina tiphia	1	Heard	Incidental
10/2/2021	1.418836014	103.753136	N.A	939	Bird	Pycnonotus goiavier	2	Seen	Incidental
10/2/2021	1.418836014	103.753136	N.A	939	Bird	Orthotomus atrogularis	2	Heard	Incidental
10/2/2021	1.418836014	103.753136	N.A	939	Bird	Cinnyris jugularis	2	Seen	Incidental
10/2/2021	1.419185037	103.753133	N.A	940	Bird	Psittacula alexandri	4	Heard	Incidental
10/2/2021	1.419185037	103.753133	N.A	940	Bird	Aplonis panayensis	4	Seen	Incidental
10/2/2021	1.419459963	103.753074	N.A	943	Bird	Hirundo tahitica	4	Seen	Incidental
10/2/2021	1.419459963	103.753074	N.A	943	Bird	Pycnonotus goiavier	1	Seen	Incidental
10/2/2021	1.419559959	103.753035	N.A	944	Bird	Treron vernans	2	Seen	Incidental
10/2/2021	1.419559959	103.753035	N.A	944	Bird	Aegithina tiphia	1	Heard	Incidental
10/2/2021	1.419570018	103.753041	N.A	946	Bird	Orthotomus sutorius	1	Heard	Incidental
10/2/2021	1.419570018	103.753041	N.A	946	Bird	Aerodramus sp.	7	Seen	Incidental
10/2/2021	1.41966599	103.753022	N.A	947	Reptile	Eutropis multifasciata	1	Seen	Incidental
10/2/2021	1.41966599	103.753022	N.A	947	Bird	Acridotheres javanicus	1	Seen	Incidental
10/2/2021	1.41966599	103.753022	N.A	947	Bird	Pelargopsis capensis	1	Heard	Incidental
10/2/2021	1.41966599	103.753022	N.A	947	Bird	Pycnonotus goiavier	1	Seen	Incidental
10/2/2021	1.41966599	103.753022	N.A	947	Bird	Treron vernans	2	Seen	Incidental
10/2/2021	1.41966599	103.753022	N.A	947	Bird	Oriolus chinensis	1	Seen	Incidental
10/2/2021	1.41966599	103.753022	N.A	947	Bird	Aplonis panayensis	10	Seen	Incidental
10/2/2021	1.419966985	103.752985	N.A	949	Bird	Cinnyris jugularis	1	Heard	Incidental
10/2/2021	1.419966985	103.752985	N.A	949	Bird	Pycnonotus goiavier	4	Seen	Incidental
10/2/2021	1.420221962	103.75292	N.A	949	Bird	Dicaeum cruentatum	1	Seen	Incidental
10/2/2021	1.420221962	103.75292	N.A	949	Bird	Todiramphus chloris	1	Heard	Incidental
10/2/2021	1.420221962	103.75292	N.A	949	Bird	Corvus splendens	1	Heard	Incidental
10/2/2021	1.420655977	103.752801	N.A	953	Bird	Pycnonotus zeylanicus	1	Heard	Incidental
10/2/2021	1.420655977	103.752801	N.A	953	Bird	Cinnyris jugularis	1	Heard	Incidental
10/2/2021	1.420768965	103.75279	N.A	955	Bird	Aplonis panayensis	2	Seen	Incidental

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
10/2/2021	1.421054034	103.752751	N.A	955	Bird	Centropus bengalensis	1	Heard	Incidental
10/2/2021	1.422077967	103.752655	N.A	959	Bird	Butorides striata	1	Seen	Incidental
10/2/2021	1.422077967	103.752655	N.A	959	Bird	Columba livia	1	Seen	Incidental
24/2/2021	1.381665962	103.758273	N.A	7:32	Bird	*Todiramphus chloris*	1	Heard	Targeted
24/2/2021	1.381665962	103.758273	N.A	7:32	Bird	*Eudynamys scolopaceus*	1	Heard	Targeted
24/2/2021	1.381665962	103.758273	N.A	7:32	Bird	*Aegithina tiphia*	1	Heard	Targeted
24/2/2021	1.381665962	103.758273	N.A	7:32	Bird	*Todiramphus chloris*	1	Seen	Targeted
24/2/2021	1.381665962	103.758273	N.A	7:32	Mammal	*Callosciurus notatus*	2	Seen	Targeted
24/2/2021	1.381665962	103.758273	N.A	7:32	Reptile	*Lygosoma bowringii*	1	Seen	Targeted
24/2/2021	1.381880036	103.757958	N.A	7:35	Bird	*Oriolus chinensis*	1	Heard	Targeted
24/2/2021	1.381880036	103.757958	N.A	7:35	Bird	*Cinnyris jugularis*	2	Heard	Targeted
24/2/2021	1.381880036	103.757958	N.A	7:35	Bird	*Aplonis panayensis*	1	Heard	Targeted
24/2/2021	1.382288989	103.757839	N.A	7:37	Bird	*Phylloscopus borealis*	1	Heard	Targeted
24/2/2021	1.382288989	103.757839	N.A	7:37	Bird	*Cinnyris jugularis*	1	Heard	Targeted
24/2/2021	1.382288989	103.757839	N.A	7:37	Bird	*Pycnonotus goiavier*	1	Heard	Targeted
24/2/2021	1.382288989	103.757839	N.A	7:37	Bird	*Loriculus galgulus*	1	Heard	Targeted
24/2/2021	1.382288989	103.757839	N.A	7:37	Bird	*Todiramphus chloris*	1	Heard	Targeted
24/2/2021	1.382288989	103.757839	N.A	7:37	Mammal	*Callosciurus notatus*	1	Heard	Targeted
24/2/2021	1.382384039	103.757673	N.A	7:41	Bird	*Treron vernans*	5	Seen	Targeted
24/2/2021	1.382384039	103.757673	N.A	7:41	Bird	*Oriolus chinensis*	1	Seen	Targeted
24/2/2021	1.382384039	103.757673	N.A	7:41	Mammal	*Callosciurus notatus*	1	Seen	Targeted
24/2/2021	1.382777989	103.757425	N.A	7:45	Bird	*Treron vernans*	2	Seen	Targeted
24/2/2021	1.382777989	103.757425	N.A	7:45	Bird	*Todiramphus chloris*	1	Heard	Targeted
24/2/2021	1.383112008	103.75724	N.A	7:47	Bird	*Aplonis panayensis*	1	Heard	Incidental
24/2/2021	1.383112008	103.75724	N.A	7:47	Mammal	*Callosciurus notatus*	1	Seen	Incidental
24/2/2021	1.383358017	103.757097	N.A	7:49	Bird	*Cinnyris jugularis*	1	Heard	Incidental
24/2/2021	1.383575024	103.75691	N.A	7:51	Bird	*Aplonis panayensis*	2	Seen	Incidental

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
24/2/2021	1.383575024	103.75691	N.A	7:51	Bird	*Corvus splendens*	1	Seen	Incidental
24/2/2021	1.383575024	103.75691	N.A	7:51	Bird	*Treron vernans*	8	Seen	Incidental
24/2/2021	1.383575024	103.75691	N.A	7:51	Bird	*Orthotomus sutorius*	1	Heard	Incidental
24/2/2021	1.383575024	103.75691	N.A	7:51	Bird	*Todiramphus chloris*	1	Heard	Incidental
24/2/2021	1.383575024	103.75691	N.A	7:51	Mammal	*Callosciurus notatus*	4	Seen	Incidental
24/2/2021	1.384111969	103.756532	N.A	7:55	Bird	*Aplonis panayensis*	1	Seen	Incidental
24/2/2021	1.384111969	103.756532	N.A	7:55	Bird	*Eudynamys scolopaceus*	1	Heard	Incidental
24/2/2021	1.384291006	103.756329	N.A	7:57	Bird	*Aegithina tiphia*	1	Heard	Targeted
24/2/2021	1.384291006	103.756329	N.A	7:57	Mammal	*Callosciurus notatus*	1	Seen	Targeted
24/2/2021	1.384697026	103.756077	N.A	7:59	Bird	*Orthotomus sutorius*	1	Heard	Targeted
24/2/2021	1.384697026	103.756077	N.A	7:59	Bird	*Eudynamys scolopaceus*	1	Seen	Targeted
24/2/2021	1.384697026	103.756077	N.A	7:59	Bird	*Treron vernans*	1	Seen	Targeted
24/2/2021	1.384697026	103.756077	N.A	7:59	Bird	*Cinnyris jugularis*	1	Heard	Targeted
24/2/2021	1.385117965	103.755878	N.A	8:02	Bird	*Cinnyris jugularis*	1	Heard	Targeted
24/2/2021	1.385117965	103.755878	N.A	8:02	Bird	*Dicaeum cruentatum*	1	Heard	Targeted
24/2/2021	1.385117965	103.755878	N.A	8:02	Bird	*Chrysophlegma miniaceum*	1	Heard	Targeted
24/2/2021	1.385117965	103.755878	N.A	8:02	Mammal	*Callosciurus notatus*	1	Seen	Targeted
24/2/2021	1.385117965	103.755878	N.A	8:02	Reptile	*Hemidactylus frenatus*	1	Seen	Targeted
24/2/2021	1.385787008	103.75534	N.A	8:07	Bird	*Trichoglossus haematodus*	2	Seen	Targeted
24/2/2021	1.385960011	103.755215	N.A	8:08	Bird	*Orthotomus sutorius*	1	Heard	Targeted
24/2/2021	1.385960011	103.755215	N.A	8:08	Bird	*Dicaeum cruentatum*	1	Heard	Targeted
24/2/2021	1.385960011	103.755215	N.A	8:08	Bird	*Aerodramus sp.*	10	Seen	Targeted
24/2/2021	1.385960011	103.755215	N.A	8:08	Mammal	*Callosciurus notatus*	1	Seen	Targeted
24/2/2021	1.38648103	103.754807	N.A	8:12	Bird	*Acridotheres javanicus*	2	Seen	Incidental
24/2/2021	1.38648103	103.754807	N.A	8:12	Bird	*Treron vernans*	2	Seen	Incidental
24/2/2021	1.38648103	103.754807	N.A	8:12	Bird	*Zosterops simplex*	1	Seen	Incidental
24/2/2021	1.38648103	103.754807	N.A	8:12	Bird	*Pycnonotus goiavier*	1	Heard	Incidental

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
24/2/2021	1.38648103	103.754807	N.A	8:12	Bird	*Chrysophlegma miniaceum*	1	Heard	Incidental
24/2/2021	1.38648103	103.754807	N.A	8:12	Bird	*Aegithina tiphia*	1	Heard	Incidental
24/2/2021	1.38648103	103.754807	N.A	8:12	Bird	*Pycnonotus goiavier*	3	Seen	Incidental
24/2/2021	1.38711202	103.754216	N.A	8:16	Bird	*Egretta garzetta*	1	Seen	Incidental
24/2/2021	1.38711202	103.754216	N.A	8:16	Bird	*Treron vernans*	2	Seen	Incidental
24/2/2021	1.388223041	103.753592	N.A	8:20	Bird	*Zosterops simplex*	2	Seen	Incidental
24/2/2021	1.381494552	103.7583222	N.A	12:19	Butterfly	*Mycalesis sp.*	4	Seen	Targeted
24/2/2021	1.381494552	103.7583222	N.A	14:10	Butterfly	*Junonia atlites atlites*	1	Seen	Targeted
24/2/2021	1.381494552	103.7583222	N.A	14:10	Butterfly	*Appias libythea olferna*	1	Seen	Targeted
24/2/2021	1.381494552	103.7583222	N.A	14:10	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
24/2/2021	1.381509556	103.7583048	N.A	14:11	Butterfly	*Zizula hylax pygmaea*	1	Seen	Targeted
24/2/2021	1.381622544	103.7582721	N.A	14:13	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
24/2/2021	1.381622544	103.7582721	N.A	14:13	Butterfly	*Mycalesis sp.*	2	Seen	Targeted
24/2/2021	1.381745003	103.7582213	N.A	14:14	Butterfly	*Eurema sp.*	1	Seen	Targeted
24/2/2021	1.381745003	103.7582213	N.A	14:14	Butterfly	*Hypolimnas bolina bolina*	1	Seen	Targeted
24/2/2021	1.381745003	103.7582213	N.A	14:14	Butterfly	*Hypolimnas bolina bolina*	1	Seen	Targeted
24/2/2021	1.381745338	103.7582265	N.A	14:15	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
24/2/2021	1.381790265	103.7581953	N.A	14:16	Butterfly	*Junonia atlites atlites*	4	Seen	Targeted
24/2/2021	1.381790265	103.7581953	N.A	14:16	Butterfly	*Doleschallia sp.*	1	Seen	Targeted
24/2/2021	1.381862853	103.7581377	N.A	14:17	Butterfly	*Doleschallia bisaltide bisaltide*	1	Seen	Targeted
24/2/2021	1.381862853	103.7581377	N.A	14:17	Butterfly	*Zizina otis lampa*	1	Seen	Targeted
24/2/2021	1.381886574	103.7581384	N.A	14:18	Butterfly	*Junonia hedonia ida*	3	Seen	Targeted
24/2/2021	1.381907361	103.7581228	N.A	14:19	Butterfly	*Zizina otis lampa*	1	Seen	Targeted
24/2/2021	1.382024288	103.7580206	N.A	14:20	Butterfly	*Iambrix salsala salsala*	1	Seen	Targeted
24/2/2021	1.382177677	103.7579395	N.A	14:22	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
24/2/2021	1.382177677	103.7579395	N.A	14:22	Butterfly	*Junonia hedonia ida*	2	Seen	Targeted
24/2/2021	1.382234339	103.7578936	N.A	14:23	Butterfly	*Junonia atlites atlites*	2	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
24/2/2021	1.382234339	103.7578936	N.A	14:23	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
24/2/2021	1.382286223	103.7578709	N.A	14:24	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
24/2/2021	1.3823542	103.7578338	N.A	14:25	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
24/2/2021	1.3823542	103.7578338	N.A	14:25	Butterfly	*Melanitis leda leda*	1	Seen	Targeted
24/2/2021	1.3823542	103.7578338	N.A	14:25	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
24/2/2021	1.382478168	103.7577475	N.A	14:26	Butterfly	*Appias libythea olferna*	1	Seen	Targeted
24/2/2021	1.382478168	103.7577475	N.A	14:26	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
24/2/2021	1.382478168	103.7577475	N.A	14:26	Butterfly	*Mycalesis sp.*	2	Seen	Targeted
24/2/2021	1.382474564	103.7577236	N.A	14:27	Butterfly	*Hesperiidae*	1	Seen	Targeted
24/2/2021	1.382511277	103.7578087	N.A	14:28	Butterfly	*Iambrix salsala salsala*	2	Seen	Targeted
24/2/2021	1.382511277	103.7578087	N.A	14:28	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
24/2/2021	1.382511277	103.7578087	N.A	14:28	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
24/2/2021	1.382574309	103.7576802	N.A	14:29	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
24/2/2021	1.382574309	103.7576802	N.A	14:29	Butterfly	*Iambrix salsala salsala*	1	Seen	Targeted
24/2/2021	1.382591994	103.7576685	N.A	14:30	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
24/2/2021	1.382639604	103.757615	N.A	14:31	Butterfly	*Mycalesis sp.*	2	Seen	Targeted
24/2/2021	1.382639604	103.757615	N.A	14:31	Butterfly	*Hesperiidae*	1	Seen	Targeted
24/2/2021	1.382821072	103.7574885	N.A	14:33	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
24/2/2021	1.383035816	103.7573237	N.A	14:34	Butterfly	*Junonia hedonia ida*	1	Seen	Incidental
24/2/2021	1.383076049	103.7572598	N.A	14:35	Butterfly	*Melanitis leda leda*	1	Seen	Incidental
24/2/2021	1.383076049	103.7572598	N.A	14:35	Butterfly	*Junonia atlites atlites*	1	Seen	Incidental
24/2/2021	1.383178728	103.7572556	N.A	14:36	Butterfly	*Iambrix salsala salsala*	2	Seen	Incidental
24/2/2021	1.383178728	103.7572556	N.A	14:36	Butterfly	*Junonia atlites atlites*	1	Seen	Incidental
24/2/2021	1.383343348	103.7571233	N.A	14:38	Butterfly	*Hesperiidae*	1	Seen	Incidental
24/2/2021	1.383343348	103.7571233	N.A	14:38	Butterfly	*Matapa aria*	1	Seen	Incidental
24/2/2021	1.383343348	103.7571233	N.A	14:38	Butterfly	*Junonia atlites atlites*	1	Seen	Incidental
24/2/2021	1.38338794	103.7570922	N.A	14:39	Butterfly	*Appias libythea olferna*	1	Seen	Incidental

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
24/2/2021	1.383415349	103.757064	N.A	14:40	Butterfly	*Mycalesis sp.*	4	Seen	Incidental
24/2/2021	1.383438148	103.757063	N.A	14:42	Butterfly	*Mycalesis sp.*	1	Seen	Incidental
24/2/2021	1.383442003	103.757063	N.A	14:42	Butterfly	*Mycalesis sp.*	1	Seen	Incidental
24/2/2021	1.383517021	103.757023	N.A	14:43	Butterfly	*Mycalesis sp.*	1	Seen	Incidental
24/2/2021	1.383517021	103.757023	N.A	14:44	Butterfly	*Eurema sp.*	1	Seen	Incidental
24/2/2021	1.383517021	103.757023	N.A	14:44	Butterfly	*Junonia hedonia ida*	1	Seen	Incidental
24/2/2021	1.383517021	103.757023	N.A	14:44	Butterfly	*Junonia atlites atlites*	1	Seen	Incidental
24/2/2021	1.383555997	103.75701	N.A	14:45	Butterfly	*Mycalesis sp.*	1	Seen	Incidental
24/2/2021	1.383555997	103.75701	N.A	14:45	Reptile	*Lygosoma bowringii*	1	Seen	Incidental
24/2/2021	1.383647025	103.756933	N.A	14:46	Butterfly	*Junonia atlites atlites*	1	Seen	Incidental
24/2/2021	1.383647025	103.756933	N.A	14:46	Butterfly	*Junonia atlites atlites*	2	Seen	Incidental
24/2/2021	1.383647025	103.756933	N.A	14:47	Butterfly	*Eurema sp.*	1	Seen	Incidental
24/2/2021	1.383956987	103.756697	N.A	14:50	Bird	*Phylloscopus inornatus*	1	Heard	Incidental
24/2/2021	1.383956987	103.756697	N.A	14:50	Butterfly	*Junonia atlites atlites*	3	Seen	Incidental
24/2/2021	1.383956987	103.756697	N.A	14:50	Butterfly	*Junonia hedonia ida*	1	Seen	Incidental
24/2/2021	1.383956987	103.756697	N.A	14:51	Butterfly	*Junonia orithya wallacei*	2	Seen	Incidental
24/2/2021	1.38404198	103.756584	N.A	14:51	Butterfly	*Mycalesis sp.*	1	Seen	Incidental
24/2/2021	1.384271979	103.756529	N.A	14:53	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
24/2/2021	1.384369964	103.756429	N.A	14:54	Butterfly	*Mycalesis sp.*	4	Seen	Targeted
24/2/2021	1.384417992	103.756418	N.A	14:55	Butterfly	*Iambrix salsala salsala*	1	Seen	Targeted
24/2/2021	1.384417992	103.756418	N.A	14:55	Butterfly	*Junonia atlites atlites*	1	Seen	Targeted
24/2/2021	1.384492004	103.756356	N.A	14:56	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
24/2/2021	1.384541038	103.756312	N.A	14:57	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
24/2/2021	1.384574985	103.756286	N.A	14:57	Butterfly	*Junonia atlites atlites*	2	Seen	Targeted
24/2/2021	1.384726027	103.75618	N.A	14:59	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
24/2/2021	1.384747988	103.75617	N.A	14:59	Butterfly	*Appias libythea olferna*	1	Seen	Targeted
24/2/2021	1.384861981	103.756047	N.A	14:59	Butterfly	*Junonia atlites atlites*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
24/2/2021	1.384861981	103.756047	N.A	14:59	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
24/2/2021	1.384861981	103.756047	N.A	14:59	Butterfly	*Acraea terpsicore*	1	Seen	Targeted
24/2/2021	1.384861981	103.756047	N.A	14:59	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
24/2/2021	1.384861981	103.756047	N.A	15:02	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
24/2/2021	1.385050993	103.755953	N.A	15:02	Butterfly	*Junonia atlites atlites*	1	Seen	Targeted
24/2/2021	1.385120982	103.755858	N.A	15:02	Butterfly	*Appias libythea olferna*	1	Seen	Targeted
24/2/2021	1.385146966	103.755855	N.A	15:03	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
24/2/2021	1.385146966	103.755855	N.A	15:03	Butterfly	*Iambrix salsala salsala*	2	Seen	Targeted
24/2/2021	1.385146966	103.755855	N.A	15:04	Butterfly	*Junonia atlites atlites*	1	Seen	Targeted
24/2/2021	1.385316029	103.75574	N.A	15:05	Butterfly	*Junonia atlites atlites*	2	Seen	Targeted
24/2/2021	1.385367997	103.755666	N.A	15:06	Butterfly	*Iambrix salsala salsala*	2	Seen	Targeted
24/2/2021	1.385367997	103.755666	N.A	15:06	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
24/2/2021	1.385421976	103.755638	N.A	15:07	Butterfly	*Junonia atlites atlites*	1	Seen	Targeted
24/2/2021	1.385421976	103.755638	N.A	15:07	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
24/2/2021	1.385493977	103.755572	N.A	15:07	Butterfly	*Iambrix salsala salsala*	1	Seen	Targeted
24/2/2021	1.385565978	103.755472	N.A	15:09	Butterfly	*Mycalesis sp.*	4	Seen	Targeted
24/2/2021	1.385565978	103.755472	N.A	15:09	Butterfly	*Eurema sp.*	1	Seen	Targeted
24/2/2021	1.385565978	103.755472	N.A	15:09	Butterfly	*Junonia hedonia ida*	2	Seen	Targeted
24/2/2021	1.385703022	103.755386	N.A	15:10	Butterfly	*Mycalesis sp.*	4	Seen	Targeted
24/2/2021	1.385703022	103.755386	N.A	15:10	Butterfly	*Iambrix salsala salsala*	1	Seen	Targeted
24/2/2021	1.385703022	103.755386	N.A	15:12	Butterfly	*Junonia atlites atlites*	1	Seen	Targeted
24/2/2021	1.385815004	103.755333	N.A	15:13	Butterfly	*Acraea terpsicore*	1	Seen	Targeted
24/2/2021	1.385815004	103.755333	N.A	15:14	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
24/2/2021	1.385815004	103.755333	N.A	15:15	Butterfly	*Acraea terpsicore*	1	Seen	Targeted
24/2/2021	1.385959005	103.755236	N.A	15:15	Butterfly	*Iambrix salsala salsala*	2	Seen	Targeted
24/2/2021	1.386022959	103.755185	N.A	15:15	Butterfly	*Mycalesis sp.*	6	Seen	Targeted
24/2/2021	1.386279026	103.754743	N.A	15:17	Butterfly	*Junonia hedonia ida*	1	Seen	Incidental

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
24/2/2021	1.386279026	103.754743	N.A	15:17	Butterfly	*Acraea terpsicore*	1	Seen	Incidental
24/2/2021	1.38650802	103.754621	N.A	15:19	Butterfly	*Mycalesis sp.*	1	Seen	Incidental
24/2/2021	1.387086036	103.754243	N.A	15:23	Butterfly	*Eurema blanda snelleni*	1	Seen	Incidental
24/2/2021	1.387623986	103.753945	N.A	15:25	Butterfly	*Junonia almana javana*	1	Seen	Incidental
24/2/2021	1.38780403	103.753861	N.A	15:26	Butterfly	*Mycalesis sp.*	1	Seen	Incidental
24/2/2021	1.42272	103.75354	N.A	21:44	Amphibian	*Sylvirana guentheri*	3	Heard	Targeted
24/2/2021	1.42272	103.75354	N.A	21:44	Decapod	*Machrobrachium sp.*	1	Seen	Targeted
24/2/2021	1.42272	103.75354	N.A	21:44	Fish	*Brachygobius kabiliensis*	2	Seen	Targeted
24/2/2021	1.42272	103.75354	N.A	21:44	Fish	*Poecilia sphenops*	5	Seen	Targeted
24/2/2021	1.42272	103.75354	N.A	21:44	Fish	*Oryzias javanicus*	40	Seen	Targeted
24/2/2021	1.42272	103.75354	N.A	21:44	Fish	*Dermogenys collettei*	50	Seen	Targeted
24/2/2021	1.42272	103.75354	N.A	21:44	Fish	*Stigmatogobius sp.*	1	Seen	Targeted
24/2/2021	1.42272	103.75354	N.A	21:44	Fish	*Gobiidae*	5	Seen	Targeted
25/2/2021	1.42272	103.75354	N.A	9:44	Odonata	*Orthetrum testaceum*	1	Seen	Targeted
25/2/2021	1.385732023	103.7554	N.A	9:45	Odonata	*Neurothemis fluctuans*	1	Seen	Targeted
25/2/2021	1.386588989	103.755216	N.A	10:00	Butterfly	*Hypolimnas bolina jacintha*	2	Seen	Incidental
25/2/2021	1.386588989	103.755216	N.A	10:00	Butterfly	*Matapa aria*	1	Seen	Incidental
25/2/2021	1.386588989	103.755216	N.A	10:00	Butterfly	*Mycalesis sp.*	1	Seen	Incidental
25/2/2021	1.386588989	103.755216	N.A	10:00	Odonata	*Neurothemis fluctuans*	1	Seen	Targeted
25/2/2021	1.38728301	103.75429	N.A	10:09	Odonata	*Orthetrum chrysis*	3	Seen	Incidental
25/2/2021	1.38728301	103.75429	N.A	10:09	Odonata	*Agriocnemis femina*	1	Seen	Incidental
25/2/2021	1.387390969	103.754228	N.A	10:20	Odonata	*Neurothemis fluctuans*	1	Seen	Incidental
25/2/2021	1.388596036	103.753788	N.A	10:23	Odonata	*Pantala flavescens*	2	Seen	Incidental
25/2/2021	1.388283977	103.754793	N.A	10:31	Odonata	*Pantala flavescens*	1	Seen	Targeted
25/2/2021	1.387262978	103.755358	N.A	10:37	Odonata	*Crocothemis servilia*	2	Seen	Targeted
25/2/2021	1.386308027	103.756122	N.A	10:47	Odonata	*Crocothemis servilia*	1	Seen	Targeted
25/2/2021	1.386308027	103.756122	N.A	10:47	Odonata	*Pantala flavescens*	1	Seen	Incidental

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
25/2/2021	1.384933982	103.75713	N.A	10:53	Bird	*Anthus rufulus*	1	Seen	Incidental
25/2/2021	1.384052038	103.757568	N.A	10:56	Butterfly	*Junonia atlites atlites*	1	Seen	Targeted
25/2/2021	1.383768981	103.757704	N.A	10:56	Butterfly	*Junonia atlites atlites*	3	Seen	Targeted
25/2/2021	1.38315903	103.75804	N.A	10:58	Odonata	*Pantala flavescens*	2	Seen	Targeted
25/2/2021	1.38315903	103.75804	N.A	10:58	Odonata	*Pantala flavescens*	1	Seen	Targeted
26/2/2021	1.422841977	103.752316	N.A	728	Bird	Pycnonotus goiavier	6	Heard	Incidental
26/2/2021	1.422841977	103.752316	N.A	728	Bird	Oriolus chinensis	1	Heard	Incidental
26/2/2021	1.422841977	103.752316	N.A	728	Bird	Columba livia	5	Seen	Incidental
26/2/2021	1.422841977	103.752316	N.A	728	Bird	Acridotheres javanicus	1	Seen	Incidental
26/2/2021	1.422841977	103.752316	N.A	728	Bird	Halcyon smyrnensis	1	Heard	Incidental
26/2/2021	1.422841977	103.752316	N.A	728	Bird	Aerodramus sp.	5	Seen	Incidental
26/2/2021	1.422841977	103.752316	N.A	728	Bird	Psittacula alexandri	1	Seen	Incidental
26/2/2021	1.422841977	103.752316	N.A	728	Bird	Psittacula longicauda	2	Heard	Incidental
26/2/2021	1.422841977	103.752316	N.A	728	Bird	Dicaeum cruentatum	1	Heard	Incidental
26/2/2021	1.422841977	103.752316	N.A	728	Bird	Todiramphus chloris	1	Seen	Incidental
26/2/2021	1.422841977	103.752316	N.A	728	Bird	Orthotomus ruficeps	1	Heard	Incidental
26/2/2021	1.422670987	103.752397	N.A	732	Bird	Aplonis panayensis	6	Seen	Incidental
26/2/2021	1.422670987	103.752397	N.A	732	Bird	Eurystomus orientalis	1	Seen	Incidental
26/2/2021	1.422670987	103.752397	N.A	732	Bird	Aegithina tiphia	1	Heard	Incidental
26/2/2021	1.422670987	103.752397	N.A	732	Bird	Pericrocotus divaricatus	1	Seen	Incidental
26/2/2021	1.422670987	103.752397	N.A	732	Bird	Hirundo tahitica	2	Heard	Incidental
26/2/2021	1.422090959	103.752695	N.A	734	Bird	Psilopogon haemacephalus	1	Heard	Incidental
26/2/2021	1.422090959	103.752695	N.A	734	Bird	Pycnonotus goiavier	3	Seen	Incidental
26/2/2021	1.422090959	103.752695	N.A	734	Bird	Dicaeum cruentatum	1	Seen	Incidental
26/2/2021	1.421890967	103.752657	N.A	736	Bird	Corvus splendens	1	Seen	Incidental
26/2/2021	1.421890967	103.752657	N.A	736	Bird	Amaurornis phoenicurus	1	Seen	Incidental
26/2/2021	1.421890967	103.752657	N.A	736	Bird	Gallus gallus	1	Seen	Incidental

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
26/2/2021	1.420656983	103.75284	N.A	738	Bird	Pycnonotus goiavier	4	Heard	Incidental
26/2/2021	1.420656983	103.75284	N.A	738	Bird	Pycnonotus zeylanicus	1	Heard	Incidental
26/2/2021	1.420656983	103.75284	N.A	738	Bird	Amaurornis phoenicurus	1	Heard	Incidental
26/2/2021	1.420656983	103.75284	N.A	738	Bird	Acridotheres javanicus	1	Seen	Incidental
26/2/2021	1.420656983	103.75284	N.A	738	Bird	Rhipidura javanica	1	Heard	Incidental
26/2/2021	1.420656983	103.75284	N.A	738	Bird	Centropus sinensis	1	Heard	Incidental
26/2/2021	1.420656983	103.75284	N.A	738	Bird	Orthotomus sericeus	1	Heard	Incidental
26/2/2021	1.420656983	103.75284	N.A	742	Bird	Psittacula longicauda	2	Seen	Incidental
26/2/2021	1.420656983	103.75284	N.A	743	Bird	Psittacula alexandri	3	Seen	Incidental
26/2/2021	1.420379039	103.752913	N.A	744	Bird	Eurystomus orientalis	1	Seen	Incidental
26/2/2021	1.420379039	103.752913	N.A	745	Bird	Hirundo tahitica	1	Seen	Incidental
26/2/2021	1.420379039	103.752913	N.A	745	Bird	Acridotheres javanicus	1	Seen	Incidental
26/2/2021	1.420379039	103.752913	N.A	745	Bird	Haliaeetus leucogaster	1	Seen	Incidental
26/2/2021	1.420379039	103.752913	N.A	747	Bird	Acridotheres javanicus	2	Seen	Incidental
26/2/2021	1.419284027	103.753094	N.A	748	Bird	Oriolus chinensis	1	Heard	Incidental
26/2/2021	1.419284027	103.753094	N.A	749	Bird	Acridotheres javanicus	3	Seen	Incidental
26/2/2021	1.419284027	103.753094	N.A	751	Bird	Treron vernans	1	Heard	Incidental
26/2/2021	1.419284027	103.753094	N.A	751	Bird	Aegithina tiphia	1	Heard	Incidental
26/2/2021	1.419284027	103.753094	N.A	751	Bird	Ardea cinerea	1	Seen	Incidental
26/2/2021	1.419284027	103.753094	N.A	751	Bird	Corvus macrorhynchos	1	Seen	Incidental
26/2/2021	1.419284027	103.753094	N.A	751	Bird	Aplonis panayensis	4	Heard	Incidental
26/2/2021	1.419284027	103.753094	N.A	751	Bird	Anthreptes malacensis	1	Heard	Incidental
26/2/2021	1.419284027	103.753094	N.A	752	Amphibian	Duttaphrynus melanostictus	1	Seen	Incidental
26/2/2021	1.419284027	103.753094	N.A	754	Bird	Zosterops simplex	2	Seen	Incidental
26/2/2021	1.419056961	103.753103	N.A	754	Bird	Acridotheres javanicus	1	Seen	Incidental
26/2/2021	1.419056961	103.753103	N.A	755	Bird	Cinnyris jugularis	1	Heard	Incidental
26/2/2021	1.419056961	103.753103	N.A	755	Bird	Aerodramus sp.	15	Seen	Incidental

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
26/2/2021	1.419056961	103.753103	N.A	755	Bird	Psittacula alexandri	3	Seen	Incidental
26/2/2021	1.419056961	103.753103	N.A	755	Bird	Orthotomus atrogularis	1	Heard	Incidental
26/2/2021	1.418598974	103.753244	N.A	758	Bird	Corvus macrorhynchos	1	Heard	Incidental
26/2/2021	1.418598974	103.753244	N.A	758	Bird	Hirundo tahitica	2	Seen	Incidental
26/2/2021	1.418598974	103.753244	N.A	758	Bird	Pycnonotus goiavier	1	Heard	Incidental
26/2/2021	1.418598974	103.753244	N.A	759	Bird	Merops sp.	1	Seen	Incidental
26/2/2021	1.418598974	103.753244	N.A	759	Bird	Todiramphus chloris	1	Heard	Incidental
26/2/2021	1.418598974	103.753244	N.A	759	Bird	Cinnyris jugularis	1	Heard	Incidental
26/2/2021	1.418598974	103.753244	N.A	759	Bird	Columba livia	1	Seen	Incidental
26/2/2021	1.418598974	103.753244	N.A	759	Bird	Pycnonotus goiavier	1	Seen	Incidental
26/2/2021	1.418021042	103.753345	N.A	803	Bird	Eudynamys scolopaceus	1	Seen	Incidental
26/2/2021	1.418021042	103.753345	N.A	803	Bird	Cinnyris jugularis	1	Seen	Incidental
26/2/2021	1.418021042	103.753345	N.A	803	Bird	Acridotheres javanicus	1	Seen	Incidental
26/2/2021	1.418021042	103.753345	N.A	803	Bird	Picus vittatus	1	Heard	Incidental
26/2/2021	1.418021042	103.753345	N.A	803	Bird	Pernis ptilorhynchus	1	Seen	Incidental
26/2/2021	1.418021042	103.753345	N.A	803	Bird	Lonchura leucogastroides	2	Seen	Incidental
26/2/2021	1.418021042	103.753345	N.A	803	Bird	Oriolus chinensis	2	Seen	Incidental
26/2/2021	1.418021042	103.753345	N.A	805	Bird	Merops philippinus	1	Seen	Incidental
26/2/2021	1.418021042	103.753345	N.A	805	Bird	Treron vernans	1	Seen	Incidental
26/2/2021	1.418021042	103.753345	N.A	805	Bird	Zosterops simplex	2	Seen	Incidental
26/2/2021	1.418021042	103.753345	N.A	805	Bird	Acridotheres javanicus	1	Seen	Incidental
26/2/2021	1.416582959	103.753562	N.A	811	Bird	Acridotheres javanicus	2	Seen	Incidental
26/2/2021	1.416582959	103.753562	N.A	811	Bird	Eudynamys scolopaceus	1	Heard	Incidental
26/2/2021	1.416582959	103.753562	N.A	811	Bird	Columba livia	1	Seen	Incidental
26/2/2021	1.416582959	103.753562	N.A	811	Bird	Ardea cinerea	1	Seen	Incidental
26/2/2021	1.416582959	103.753562	N.A	811	Bird	Copsychus saularis	1	Seen	Incidental
26/2/2021	1.416582959	103.753562	N.A	811	Bird	Pycnonotus goiavier	2	Heard	Incidental

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
26/2/2021	1.416582959	103.753562	N.A	818	Mammal	Callosciurus notatus	1	Seen	Incidental
26/2/2021	1.41525602	103.7538	N.A	818	Bird	Acridotheres javanicus	2	Seen	Incidental
26/2/2021	1.41525602	103.7538	N.A	818	Bird	Aegithina tiphia	1	Seen	Incidental
26/2/2021	1.41525602	103.7538	N.A	818	Bird	Zosterops simplex	2	Heard	Incidental
26/2/2021	1.41525602	103.7538	N.A	818	Bird	Pericrocotus divaricatus	1	Heard	Incidental
26/2/2021	1.41525602	103.7538	N.A	818	Mammal	Canis lupus familiaris	1	Seen	Incidental
26/2/2021	1.41525602	103.7538	N.A	820	Bird	Orthotomus ruficeps	1	Seen	Incidental
26/2/2021	1.41525602	103.7538	N.A	820	Mammal	Canis lupus familiaris	1	Seen	Incidental
26/2/2021	1.41525602	103.7538	N.A	820	Bird	Hirundo tahitica	1	Seen	Incidental
26/2/2021	1.41525602	103.7538	N.A	820	Bird	Orthotomus sutorius	1	Heard	Incidental
26/2/2021	1.41525602	103.7538	N.A	821	Bird	Aplonis panayensis	2	Seen	Incidental
26/2/2021	1.414856035	103.753913	N.A	823	Bird	Aerodramus sp.	6	Seen	Incidental
26/2/2021	1.414856035	103.753913	N.A	823	Bird	Amaurornis phoenicurus	1	Seen	Incidental
26/2/2021	1.414856035	103.753913	N.A	823	Bird	Columba livia	2	Seen	Incidental
26/2/2021	1.414856035	103.753913	N.A	823	Bird	Psittacula alexandri	3	Seen	Incidental
26/2/2021	1.414237032	103.754003	N.A	825	Bird	Centropus sinensis	1	Seen	Incidental
26/2/2021	1.414237032	103.754003	N.A	825	Bird	Acridotheres javanicus	1	Seen	Incidental
26/2/2021	1.414237032	103.754003	N.A	829	Bird	Pycnonotus goiavier	2	Seen	Incidental
26/2/2021	1.414237032	103.754003	N.A	829	Bird	Cinnyris jugularis	1	Heard	Incidental
26/2/2021	1.414237032	103.754003	N.A	829	Bird	Lanius sp.	1	Heard	Incidental
26/2/2021	1.414237032	103.754003	N.A	829	Bird	Spilopelia chinensis	1	Seen	Incidental
26/2/2021	1.413774015	103.754051	N.A	830	Bird	Eurystomus orientalis	1	Seen	Incidental
26/2/2021	1.413774015	103.754051	N.A	830	Bird	Zosterops simplex	4	Seen	Incidental
26/2/2021	1.413774015	103.754051	N.A	831	Bird	Eudynamys scolopaceus	1	Seen	Incidental
26/2/2021	1.413774015	103.754051	N.A	831	Bird	Columba livia	7	Seen	Incidental
26/2/2021	1.413774015	103.754051	N.A	831	Bird	Oriolus chinensis	1	Heard	Incidental
26/2/2021	1.413774015	103.754051	N.A	831	Bird	Acridotheres javanicus	4	Seen	Incidental

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
26/2/2021	1.413007993	103.754192	N.A	834	Bird	Copsychus saularis	1	Seen	Incidental
26/2/2021	1.413007993	103.754192	N.A	834	Bird	Treron vernans	1	Seen	Incidental
26/2/2021	1.413007993	103.754192	N.A	834	Bird	Spilopelia chinensis	2	Seen	Incidental
26/2/2021	1.413007993	103.754192	N.A	834	Bird	Geopelia striata	1	Seen	Incidental
26/2/2021	1.413007993	103.754192	N.A	834	Bird	Orthotomus sutorius	1	Heard	Incidental
26/2/2021	1.413007993	103.754192	N.A	834	Bird	Merops philippinus	2	Seen	Incidental
26/2/2021	1.413007993	103.754192	N.A	834	Bird	Cinnyris jugularis	1	Heard	Incidental
26/2/2021	1.413007993	103.754192	N.A	834	Bird	Pycnonotus goiavier	3	Seen	Incidental
26/2/2021	1.412233002	103.754312	N.A	840	Bird	Orthotomus sutorius	1	Heard	Incidental
26/2/2021	1.412233002	103.754312	N.A	840	Bird	Orthotomus atrogularis	1	Heard	Incidental
26/2/2021	1.412233002	103.754312	N.A	840	Bird	Aplonis panayensis	1	Seen	Incidental
26/2/2021	1.412233002	103.754312	N.A	840	Bird	Alcedo atthis	1	Seen	Incidental
26/2/2021	1.412233002	103.754312	N.A	840	Bird	Dinopium javanense	1	Heard	Incidental
26/2/2021	1.411580974	103.754425	N.A	843	Bird	Todiramphus chloris	1	Seen	Incidental
26/2/2021	1.411580974	103.754425	N.A	843	Bird	Spilopelia chinensis	1	Seen	Incidental
26/2/2021	1.411580974	103.754425	N.A	843	Bird	Rhipidura javanica	1	Heard	Incidental
26/2/2021	1.411580974	103.754425	N.A	843	Bird	Muscicapa dauurica	1	Seen	Incidental
26/2/2021	1.411580974	103.754425	N.A	843	Bird	Aplonis panayensis	7	Seen	Incidental
26/2/2021	1.411580974	103.754425	N.A	843	Bird	Cinnyris jugularis	1	Seen	Incidental
26/2/2021	1.411580974	103.754425	N.A	845	Bird	Pycnonotus goiavier	2	Seen	Incidental
26/2/2021	1.411580974	103.754425	N.A	845	Mammal	Callosciurus notatus	1	Seen	Incidental
26/2/2021	1.411580974	103.754425	N.A	845	Bird	Psittacula longicauda	1	Heard	Incidental
26/2/2021	1.411580974	103.754425	N.A	845	Bird	Treron vernans	1	Seen	Incidental
26/2/2021	1.411580974	103.754425	N.A	845	Bird	Oriolus chinensis	1	Seen	Incidental
26/2/2021	1.411580974	103.754425	N.A	845	Bird	Aegithina tiphia	1	Heard	Incidental
26/2/2021	1.410901034	103.754505	N.A	849	Bird	Acridotheres javanicus	5	Seen	Incidental
26/2/2021	1.410901034	103.754505	N.A	849	Bird	Cinnyris jugularis	2	Seen	Incidental

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
26/2/2021	1.410901034	103.754505	N.A	849	Bird	Aplonis panayensis	3	Seen	Incidental
26/2/2021	1.410901034	103.754505	N.A	851	Bird	Pernis ptilorhynchus	1	Seen	Incidental
26/2/2021	1.410901034	103.754505	N.A	851	Bird	Pycnonotus goiavier	1	Seen	Incidental
26/2/2021	1.410412034	103.754574	N.A	852	Bird	Muscicapa dauurica	1	Seen	Incidental
26/2/2021	1.410412034	103.754574	N.A	852	Bird	Dicaeum cruentatum	1	Seen	Incidental
26/2/2021	1.410412034	103.754574	N.A	852	Bird	Pycnonotus goiavier	4	Seen	Incidental
26/2/2021	1.410412034	103.754574	N.A	852	Bird	Amaurornis phoenicurus	1	Heard	Incidental
26/2/2021	1.409848016	103.754522	N.A	855	Bird	Orthotomus sutorius	1	Heard	Incidental
26/2/2021	1.409848016	103.754522	N.A	855	Bird	Aegithina tiphia	1	Heard	Incidental
26/2/2021	1.409848016	103.754522	N.A	855	Bird	Treron vernans	3	Seen	Incidental
26/2/2021	1.409848016	103.754522	N.A	855	Bird	Cinnyris jugularis	1	Seen	Incidental
26/2/2021	1.409848016	103.754522	N.A	855	Bird	Hirundo tahitica	1	Seen	Incidental
26/2/2021	1.409848016	103.754522	N.A	855	Bird	Lanius cristatus	1	Heard	Incidental
26/2/2021	1.409848016	103.754522	N.A	855	Bird	Todiramphus chloris	1	Heard	Incidental
26/2/2021	1.409848016	103.754522	N.A	855	Bird	Muscicapa dauurica	1	Seen	Incidental
26/2/2021	1.409167992	103.754446	N.A	859	Bird	Eudynamys scolopaceus	1	Heard	Incidental
26/2/2021	1.409167992	103.754446	N.A	859	Bird	Acridotheres javanicus	1	Heard	Incidental
26/2/2021	1.409167992	103.754446	N.A	859	Bird	Treron vernans	2	Heard	Incidental
26/2/2021	1.409167992	103.754446	N.A	900	Bird	Psittacula alexandri	1	Seen	Incidental
26/2/2021	1.409167992	103.754446	N.A	900	Bird	Aplonis panayensis	6	Seen	Incidental
26/2/2021	1.408714028	103.754354	N.A	903	Reptile	Calotes versicolor	2	Seen	Incidental
26/2/2021	1.408714028	103.754354	N.A	903	Bird	Spilopelia chinensis	3	Seen	Incidental
26/2/2021	1.408269033	103.754232	N.A	905	Bird	Todiramphus chloris	1	Heard	Incidental
26/2/2021	1.408269033	103.754232	N.A	905	Reptile	Varanus salvator	1	Seen	Incidental
26/2/2021	1.408269033	103.754232	N.A	905	Bird	Acridotheres javanicus	3	Seen	Incidental
26/2/2021	1.408269033	103.754232	N.A	905	Bird	Hirundo tahitica	1	Seen	Incidental
26/2/2021	1.408269033	103.754232	N.A	905	Bird	Psittacula alexandri	1	Seen	Incidental

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
26/2/2021	1.408269033	103.754232	N.A	905	Bird	Columba livia	2	Seen	Incidental
26/2/2021	1.407704009	103.754319	N.A	910	Bird	Spilopelia chinensis	2	Seen	Incidental
26/2/2021	1.407704009	103.754319	N.A	910	Bird	Aplonis panayensis	1	Seen	Incidental
26/2/2021	1.407704009	103.754319	N.A	910	Bird	Cinnyris jugularis	1	Seen	Incidental
26/2/2021	1.407704009	103.754319	N.A	912	Bird	Aerodramus sp.	2	Seen	Incidental
26/2/2021	1.407704009	103.754319	N.A	912	Bird	Columba livia	1	Seen	Incidental
26/2/2021	1.407704009	103.754319	N.A	912	Bird	Corvus macrorhynchos	2	Seen	Incidental
26/2/2021	1.407704009	103.754319	N.A	912	Bird	Psittacula alexandri	1	Seen	Incidental
26/2/2021	1.40675501	103.754377	N.A	915	Bird	Treron vernans	3	Seen	Incidental
26/2/2021	1.40675501	103.754377	N.A	915	Bird	Pericrocotus divaricatus	1	Heard	Incidental
26/2/2021	1.40675501	103.754377	N.A	915	Bird	Aplonis panayensis	6	Seen	Incidental
26/2/2021	1.406295011	103.754218	N.A	916	Reptile	Trachemys scripta	1	Seen	Incidental
26/2/2021	1.406295011	103.754218	N.A	916	Reptile	Varanus salvator	1	Seen	Incidental
26/2/2021	1.406295011	103.754218	N.A	916	Bird	Anthreptes malacensis	1	Seen	Incidental
26/2/2021	1.406295011	103.754218	N.A	919	Bird	Nycticorax nycticorax	1	Seen	Incidental
26/2/2021	1.406295011	103.754218	N.A	919	Bird	Eudynamys scolopaceus	1	Seen	Incidental
26/2/2021	1.406295011	103.754218	N.A	919	Bird	Treron vernans	2	Seen	Incidental
26/2/2021	1.406295011	103.754218	N.A	919	Bird	Phylloscopus borealis	2	Seen	Incidental
26/2/2021	1.406295011	103.754218	N.A	919	Bird	Acridotheres javanicus	1	Seen	Incidental
26/2/2021	1.406295011	103.754218	N.A	919	Bird	Cinnyris jugularis	2	Heard	Incidental
26/2/2021	1.406295011	103.754218	N.A	919	Bird	Amaurornis phoenicurus	2	Seen	Incidental
26/2/2021	1.406295011	103.754218	N.A	919	Bird	Aplonis panayensis	1	Heard	Incidental
26/2/2021	1.406295011	103.754218	N.A	919	Bird	Muscicapa dauurica	1	Heard	Incidental
26/2/2021	1.406295011	103.754218	N.A	919	Bird	Gallus gallus (domestic)	1	Heard	Incidental
26/2/2021	1.40571096	103.75402	N.A	922	Bird	Gallus gallus	1	Heard	Incidental
26/2/2021	1.40571096	103.75402	N.A	922	Bird	Oriolus chinensis	1	Heard	Incidental
26/2/2021	1.40571096	103.75402	N.A	922	Bird	Aplonis panayensis	6	Heard	Incidental

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
26/2/2021	1.40571096	103.75402	N.A	924	Bird	Acridotheres javanicus	1	Heard	Incidental
26/2/2021	1.405235035	103.753857	N.A	924	Bird	Pernis ptilorhynchus	1	Seen	Incidental
26/2/2021	1.405235035	103.753857	N.A	924	Bird	Pycnonotus goiavier	1	Heard	Incidental
26/2/2021	1.405235035	103.753857	N.A	924	Reptile	Calotes versicolor	1	Seen	Incidental
26/2/2021	1.405235035	103.753857	N.A	926	Bird	Egretta garzetta	1	Seen	Incidental
26/2/2021	1.405235035	103.753857	N.A	926	Bird	Aegithina tiphia	1	Heard	Incidental
26/2/2021	1.405235035	103.753857	N.A	926	Bird	Eudynamys scolopaceus	1	Heard	Incidental
26/2/2021	1.404697001	103.753684	N.A	927	Bird	Lanius cristatus	1	Seen	Incidental
26/2/2021	1.404697001	103.753684	N.A	927	Bird	Acridotheres javanicus	1	Seen	Incidental
26/2/2021	1.404697001	103.753684	N.A	927	Bird	Rhipidura javanica	1	Heard	Incidental
26/2/2021	1.404697001	103.753684	N.A	930	Bird	Treron vernans	2	Seen	Incidental
26/2/2021	1.404697001	103.753684	N.A	930	Bird	Pycnonotus goiavier	2	Seen	Incidental
26/2/2021	1.402581995	103.753	N.A	931	Bird	Ixobrychus sinensis	1	Seen	Incidental
26/2/2021	1.402581995	103.753	N.A	931	Reptile	Varanus salvator	1	Seen	Incidental
26/2/2021	1.402581995	103.753	N.A	933	Bird	Prinia flaviventris	1	Heard	Incidental
26/2/2021	1.402581995	103.753	N.A	933	Bird	Spilopelia chinensis	1	Seen	Incidental
26/2/2021	1.402581995	103.753	N.A	933	Bird	Acridotheres javanicus	4	Seen	Incidental
26/2/2021	1.402581995	103.753	N.A	936	Bird	Egretta garzetta	3	Seen	Incidental
26/2/2021	1.402581995	103.753	N.A	936	Reptile	Trachemys scripta	1	Seen	Incidental
26/2/2021	1.402581995	103.753	N.A	936	Reptile	Calotes versicolor	1	Seen	Incidental
26/2/2021	1.402581995	103.753	N.A	936	Bird	Eudynamys scolopaceus	1	Heard	Incidental
26/2/2021	1.402581995	103.753	N.A	939	Bird	Hirundo rustica	1	Seen	Incidental
26/2/2021	1.402581995	103.753	N.A	939	Bird	Ducula bicolor	1	Seen	Incidental
26/2/2021	1.402581995	103.753	N.A	939	Bird	Columba livia	1	Seen	Incidental
26/2/2021	1.402581995	103.753	N.A	939	Bird	Psittacula alexandri	2	Seen	Incidental
26/2/2021	1.402581995	103.753	N.A	942	Bird	Helopsaltes certhiola	1	Heard	Incidental
26/2/2021	1.402581995	103.753	N.A	942	Bird	Loriculus galgulus	1	Seen	Incidental

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
26/2/2021	1.402581995	103.753	N.A	942	Bird	Acridotheres javanicus	2	Seen	Incidental
26/2/2021	1.402014038	103.752819	N.A	943	Bird	Cinnyris jugularis	1	Seen	Incidental
26/2/2021	1.402014038	103.752819	N.A	944	Bird	Aplonis panayensis	2	Heard	Incidental
26/2/2021	1.402014038	103.752819	N.A	944	Bird	Acridotheres javanicus	4	Seen	Incidental
26/2/2021	1.401039977	103.75249	N.A	945	Bird	Geopelia striata	1	Seen	Incidental
26/2/2021	1.401039977	103.75249	N.A	945	Bird	Pycnonotus goiavier	1	Heard	Incidental
26/2/2021	1.401039977	103.75249	N.A	946	Bird	Spilopelia chinensis	1	Seen	Incidental
26/2/2021	1.401039977	103.75249	N.A	946	Bird	Aplonis panayensis	4	Seen	Incidental
26/2/2021	1.401039977	103.75249	N.A	946	Bird	Hirundo tahitica	3	Seen	Incidental
26/2/2021	1.401039977	103.75249	N.A	946	Bird	Treron vernans	1	Seen	Incidental
26/2/2021	1.400444023	103.752356	N.A	949	Bird	Butorides striata	2	Seen	Incidental
26/2/2021	1.400444023	103.752356	N.A	949	Bird	Lonchura punctulata	1	Seen	Incidental
26/2/2021	1.400444023	103.752356	N.A	949	Bird	Acridotheres javanicus	3	Seen	Incidental
26/2/2021	1.400444023	103.752356	N.A	949	Bird	Geopelia striata	1	Seen	Incidental
26/2/2021	1.400444023	103.752356	N.A	949	Bird	Aegithina tiphia	2	Heard	Incidental
26/2/2021	1.400444023	103.752356	N.A	953	Bird	Oriolus chinensis	1	Heard	Incidental
26/2/2021	1.400444023	103.752356	N.A	953	Bird	Orthotomus sutorius	2	Heard	Incidental
26/2/2021	1.399555039	103.752239	N.A	954	Bird	Spilopelia chinensis	2	Seen	Incidental
26/2/2021	1.399555039	103.752239	N.A	954	Bird	Actitis hypoleucos	2	Seen	Incidental
26/2/2021	1.399555039	103.752239	N.A	954	Bird	Acridotheres javanicus	1	Seen	Incidental
26/2/2021	1.399555039	103.752239	N.A	956	Bird	Pernis ptilorhynchus	1	Seen	Incidental
26/2/2021	1.399555039	103.752239	N.A	956	Bird	Zosterops simplex	3	Seen	Incidental
26/2/2021	1.399555039	103.752239	N.A	956	Bird	Psittacula alexandri	1	Seen	Incidental
26/2/2021	1.398589024	103.752194	N.A	959	Bird	Actitis hypoleucos	2	Seen	Incidental
26/2/2021	1.398589024	103.752194	N.A	959	Bird	Acridotheres javanicus	2	Seen	Incidental
26/2/2021	1.398589024	103.752194	N.A	959	Bird	Dicaeum cruentatum	1	Seen	Incidental
26/2/2021	1.398589024	103.752194	N.A	959	Bird	Oriolus chinensis	1	Seen	Incidental

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
26/2/2021	1.398046967	103.752222	N.A	1000	Bird	Butorides striata	1	Seen	Incidental
26/2/2021	1.397143984	103.752325	N.A	1003	Bird	Loriculus galgulus	1	Seen	Incidental
26/2/2021	1.397143984	103.752325	N.A	1006	Bird	Orthotomus sutorius	1	Heard	Incidental
26/2/2021	1.397143984	103.752325	N.A	1006	Bird	Todiramphus chloris	1	Seen	Incidental
26/2/2021	1.397143984	103.752325	N.A	1006	Bird	Zosterops simplex	1	Seen	Incidental
26/2/2021	1.397143984	103.752325	N.A	1007	Bird	Hirundo tahitica	2	Seen	Incidental
26/2/2021	1.397143984	103.752325	N.A	1007	Bird	Phylloscopus borealis	1	Seen	Incidental
26/2/2021	1.397143984	103.752325	N.A	1007	Bird	Dinopium javanense	1	Heard	Incidental
26/2/2021	1.397143984	103.752325	N.A	1009	Bird	Zosterops simplex	2	Heard	Incidental
1/3/2021	1.42272	103.75354	N.A	15:47	Fish	*Dermogenys collettei*	30	Seen	Targeted
4/3/2021	1.381828487	103.7590613	N.A	19:54	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.381827313	103.7590576	N.A	19:54	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.381827313	103.7590576	N.A	19:54	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.381832678	103.7590769	N.A	19:54	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.381832678	103.7590769	N.A	19:54	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.381400591	103.7594026	N.A	19:56	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.381400591	103.7594026	N.A	19:56	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.381400591	103.7594026	N.A	19:56	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.381156007	103.758588	N.A	19:58	Reptile	*Calotes versicolor*	2	Seen	Targeted
4/3/2021	1.381359687	103.7583135	N.A	19:58	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.381468317	103.7582269	N.A	19:58	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.381610977	103.758169	N.A	19:59	Reptile	*Gekko monarchus*	2	Seen	Targeted
4/3/2021	1.381521709	103.7581717	N.A	19:59	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.381616928	103.7581565	N.A	19:59	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.381615838	103.7581567	N.A	19:59	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.381664788	103.7582022	N.A	19:59	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.381694041	103.758153	N.A	20:00	Reptile	*Hemidactylus frenatus*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
4/3/2021	1.381694041	103.758153	N.A	20:00	Reptile	*Gekko monarchus*	2	Seen	Targeted
4/3/2021	1.381690605	103.7582238	N.A	20:00	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.381690605	103.7582238	N.A	20:00	Mammal	*Myotis muricola*	1	Acoustic	Targeted
4/3/2021	1.381717343	103.7582533	N.A	20:00	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.381717343	103.7582533	N.A	20:00	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.381746009	103.758179	N.A	20:01	Amphibian	*Microhyla butleri*	1	Heard	Targeted
4/3/2021	1.381826978	103.75811	N.A	20:02	Amphibian	*Duttaphrynus melanostictus*	1	Seen	Targeted
4/3/2021	1.381920101	103.7581367	N.A	20:03	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.381920101	103.7581367	N.A	20:03	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.382033676	103.7580808	N.A	20:03	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.382064018	103.757945	N.A	20:04	Reptile	*Gekko monarchus*	1	Seen	Targeted
4/3/2021	1.382063935	103.7580688	N.A	20:04	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.382057229	103.758066	N.A	20:04	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.382057229	103.758066	N.A	20:04	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.382057229	103.758066	N.A	20:04	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.382126966	103.757862	N.A	20:05	Reptile	*Hemidactylus frenatus*	1	Seen	Targeted
4/3/2021	1.382088996	103.757816	N.A	20:06	Reptile	*Hemidactylus frenatus*	1	Seen	Targeted
4/3/2021	1.382087404	103.7578233	N.A	20:06	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.382087404	103.7578233	N.A	20:06	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.382124871	103.7578547	N.A	20:06	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.382138617	103.757853	N.A	20:07	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.382138617	103.757853	N.A	20:07	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.382219838	103.7578472	N.A	20:07	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.382269878	103.7578451	N.A	20:08	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.382286642	103.757833	N.A	20:08	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.382286642	103.757833	N.A	20:08	Mammal	*Myotis muricola*	1	Acoustic	Targeted
4/3/2021	1.382286642	103.757833	N.A	20:08	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
4/3/2021	1.382356631	103.7578096	N.A	20:09	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.382410778	103.7577987	N.A	20:10	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.382410778	103.7577987	N.A	20:10	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.382534998	103.757628	N.A	20:11	Amphibian	*Eleutherodactylus planirostris*	5	Seen	Targeted
4/3/2021	1.382478504	103.7577839	N.A	20:11	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.382509097	103.7577591	N.A	20:11	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.382509097	103.7577591	N.A	20:11	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.382507337	103.7577736	N.A	20:11	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.382531226	103.7577788	N.A	20:12	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.382542374	103.757762	N.A	20:13	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.382548995	103.757688	N.A	20:14	Amphibian	*Eleutherodactylus planirostris*	3	Seen	Targeted
4/3/2021	1.382517982	103.7577148	N.A	20:14	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.382531729	103.7577078	N.A	20:14	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.382531729	103.7577078	N.A	20:14	Mammal	*Myotis muricola*	1	Acoustic	Targeted
4/3/2021	1.382552432	103.7577584	N.A	20:14	Mammal	*Myotis muricola*	1	Acoustic	Targeted
4/3/2021	1.382597359	103.7576704	N.A	20:15	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.38258596	103.7576265	N.A	20:15	Mammal	*Myotis muricola*	1	Acoustic	Targeted
4/3/2021	1.38258596	103.7576265	N.A	20:15	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.38258596	103.7576265	N.A	20:15	Mammal	*Myotis muricola*	1	Acoustic	Targeted
4/3/2021	1.382636921	103.7576427	N.A	20:16	Mammal	*Myotis muricola*	1	Acoustic	Targeted
4/3/2021	1.382671036	103.757555	N.A	20:17	Amphibian	*Eleutherodactylus planirostris*	1	Seen	Targeted
4/3/2021	1.382709006	103.757583	N.A	20:18	Reptile	*Hemidactylus frenatus*	1	Seen	Targeted
4/3/2021	1.383136483	103.7576089	N.A	20:20	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.383189959	103.757558	N.A	20:21	Reptile	*Hemidactylus frenatus*	2	Seen	Targeted
4/3/2021	1.383224996	103.75759	N.A	20:22	Amphibian	*Eleutherodactylus planirostris*	2	Seen	Targeted
4/3/2021	1.383303031	103.757661	N.A	20:24	Reptile	*Dendrelaphis pictus*	1	Seen	Targeted
4/3/2021	1.383303031	103.757661	N.A	20:24	Reptile	*Calotes versicolor*	2	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
4/3/2021	1.383423982	103.757595	N.A	20:26	Reptile	*Calotes versicolor*	1	Seen	Targeted
4/3/2021	1.383749032	103.757479	N.A	20:29	Reptile	*Calotes versicolor*	2	Seen	Targeted
4/3/2021	1.384580014	103.757237	N.A	20:32	Reptile	*Calotes versicolor*	4	Seen	Targeted
4/3/2021	1.384741031	103.757106	N.A	20:33	Reptile	*Calotes versicolor*	1	Seen	Targeted
4/3/2021	1.384745808	103.7564401	N.A	20:36	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.384745808	103.7564401	N.A	20:36	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.3847904	103.7564071	N.A	20:36	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.384791993	103.756349	N.A	20:37	Amphibian	*Eleutherodactylus planirostris*	1	Seen	Targeted
4/3/2021	1.385014197	103.7561608	N.A	20:38	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.385099944	103.7561362	N.A	20:38	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.385099944	103.7561362	N.A	20:39	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.385201784	103.7560842	N.A	20:39	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.385518033	103.755736	N.A	20:42	Reptile	*Calotes versicolor*	1	Seen	Targeted
4/3/2021	1.385743003	103.755699	N.A	20:44	Reptile	*Calotes versicolor*	1	Seen	Targeted
4/3/2021	1.385873007	103.7556	N.A	20:46	Reptile	*Calotes versicolor*	1	Seen	Targeted
4/3/2021	1.386082973	103.75539	N.A	20:47	Amphibian	*Kaloula pulchra*	1	Seen	Targeted
4/3/2021	1.386131002	103.755365	N.A	20:48	Reptile	*Calotes versicolor*	1	Seen	Targeted
4/3/2021	1.386299478	103.7552943	N.A	20:49	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
4/3/2021	1.386273997	103.755229	N.A	20:50	Reptile	*Gekko monarchus*	1	Seen	Targeted
4/3/2021	1.386709018	103.755208	N.A	20:54	Reptile	*Ahaetulla prasina*	1	Seen	Targeted
4/3/2021	1.386779007	103.755206	N.A	20:56	Reptile	*Calotes versicolor*	1	Seen	Targeted
4/3/2021	1.387086036	103.755332	N.A	20:58	Reptile	*Calotes versicolor*	1	Seen	Targeted
4/3/2021	1.387215033	103.755382	N.A	21:00	Amphibian	*Duttaphrynus melanostictus*	1	Seen	Targeted
4/3/2021	1.387322992	103.755355	N.A	21:01	Amphibian	*Duttaphrynus melanostictus*	1	Seen	Targeted
4/3/2021	1.387458025	103.755271	N.A	21:01	Bird	*Caprimulgus macrurus*	1	Seen	Targeted
4/3/2021	1.387458025	103.755271	N.A	21:01	Reptile	*Calotes versicolor*	2	Seen	Targeted
4/3/2021	1.387458025	103.755271	N.A	21:01	Reptile	*Dendrelaphis pictus*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
4/3/2021	1.387588028	103.755188	N.A	21:03	Amphibian	*Duttaphrynus melanostictus*	1	Seen	Targeted
4/3/2021	1.387588028	103.755188	N.A	21:03	Reptile	*Calotes versicolor*	1	Seen	Targeted
4/3/2021	1.387791038	103.755055	N.A	21:04	Reptile	*Calotes versicolor*	3	Seen	Targeted
4/3/2021	1.388103012	103.754883	N.A	21:05	Amphibian	*Duttaphrynus melanostictus*	1	Seen	Targeted
4/3/2021	1.388292024	103.754802	N.A	21:06	Reptile	*Calotes versicolor*	1	Seen	Targeted
4/3/2021	1.387083018	103.754231	N.A	21:14	Amphibian	*Fejervarya sp.*	1	Seen	Incidental
10/3/2021	1.42272	103.75354	N.A	9:21	Odonata	*Orthetrum testaceum*	2	Seen	Targeted
11/3/2021	1.350805974	103.735953	D1_04	21:51	Amphibian	*Duttaphrynus melanostictus*	9	Seen	Targeted
11/3/2021	1.350805974	103.735953	D1_04	21:51	Amphibian	*Fejervarya sp.*	2	Seen	Targeted
11/3/2021	1.350805974	103.735953	D1_04	21:51	Reptile	*Lygosoma bowringii*	1	Seen	Targeted
11/3/2021	1.382333999	103.757555	N.A	21:57	Amphibian	*Eleutherodactylus planirostris*	1	Seen	Incidental
11/3/2021	1.350000976	103.734946	D1_02	22:12	Amphibian	*Duttaphrynus melanostictus*	1	Seen	Targeted
11/3/2021	1.350000976	103.734946	D1_02	22:12	Amphibian	*Fejervarya sp.*	1	Seen	Targeted
11/3/2021	1.349819759	103.7341638	D1_01	22:16	Amphibian	*Duttaphrynus melanostictus*	1	Seen	Targeted
11/3/2021	1.349819759	103.7341638	D1_01	22:16	Reptile	*Indotyphlops braminus*	1	Seen	Targeted
15/3/2021	1.383424988	103.757909	N.A	9:15	Bird	*Cinnyris jugularis*	1	Heard	Targeted
15/3/2021	1.383424988	103.757909	N.A	9:15	Butterfly	*Delias hyparete metarete*	2	Seen	Targeted
15/3/2021	1.383424988	103.757909	N.A	9:15	Butterfly	*Zizina otis lampa*	1	Seen	Targeted
15/3/2021	1.383778034	103.757744	N.A	9:17	Butterfly	*Junonia orithya wallacei*	4	Seen	Targeted
15/3/2021	1.383923963	103.757663	N.A	9:18	Bird	*Acridotheres javanicus*	4	Seen	Targeted
15/3/2021	1.383923963	103.757663	N.A	9:18	Bird	*Pycnonotus goiavier*	1	Seen	Targeted
15/3/2021	1.383923963	103.757663	N.A	9:18	Bird	*Aerodramus sp.*	10	Seen	Targeted
15/3/2021	1.383923963	103.757663	N.A	9:18	Bird	*Aplonis panayensis*	1	Seen	Targeted
15/3/2021	1.383923963	103.757663	N.A	9:18	Butterfly	*Zizina otis lampa*	2	Seen	Targeted
15/3/2021	1.383923963	103.757663	N.A	9:18	Butterfly	*Zizina otis lampa*	1	Seen	Targeted
15/3/2021	1.383923963	103.757663	N.A	9:18	Butterfly	*Prosotas dubiosa lumpura*	1	Seen	Targeted
15/3/2021	1.383923963	103.757663	N.A	9:18	Butterfly	*Delias hyparete metarete*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
15/3/2021	1.384397037	103.757426	N.A	9:21	Butterfly	*Danaus chrysippus chrysippus*	1	Seen	Targeted
15/3/2021	1.384397037	103.757426	N.A	9:21	Butterfly	*Junonia orithya wallacei*	1	Seen	Targeted
15/3/2021	1.384713035	103.757266	N.A	9:23	Butterfly	*Junonia orithya wallacei*	1	Seen	Targeted
15/3/2021	1.384713035	103.757266	N.A	9:23	Butterfly	*Junonia atlites atlites*	1	Seen	Targeted
15/3/2021	1.386530986	103.755281	N.A	9:29	Bird	*Todiramphus chloris*	1	Heard	Targeted
15/3/2021	1.386530986	103.755281	N.A	9:29	Bird	*Acridotheres javanicus*	1	Seen	Targeted
15/3/2021	1.386530986	103.755281	N.A	9:29	Bird	*Oriolus chinensis*	1	Seen	Targeted
15/3/2021	1.386530986	103.755281	N.A	9:29	Butterfly	*Prosotas dubiosa lumpura*	1	Seen	Targeted
15/3/2021	1.386530986	103.755281	N.A	9:29	Butterfly	*Hypolimnas bolina jacintha*	1	Seen	Targeted
15/3/2021	1.386530986	103.755281	N.A	9:29	Odonata	*Gynacantha subinterrupta*	1	Seen	Incidental
15/3/2021	1.388122961	103.754903	N.A	9:36	Bird	*Todiramphus chloris*	1	Seen	Targeted
15/3/2021	1.388122961	103.754903	N.A	9:36	Bird	*Cinnyris jugularis*	1	Heard	Targeted
15/3/2021	1.388122961	103.754903	N.A	9:36	Butterfly	*Junonia orithya wallacei*	1	Seen	Targeted
23/3/2021	1.388482964	103.754701	N.A	7:35	Amphibian	*Kaloula pulchra*	1	Seen	Targeted
23/3/2021	1.388482964	103.754701	N.A	7:35	Bird	*Hirundo tahitica*	1	Seen	Targeted
23/3/2021	1.388482964	103.754701	N.A	7:35	Bird	*Acridotheres javanicus*	2	Seen	Targeted
23/3/2021	1.388482964	103.754701	N.A	7:35	Bird	*Aerodramus sp.*	1	Seen	Targeted
23/3/2021	1.388482964	103.754701	N.A	7:35	Bird	*Aplonis panayensis*	1	Seen	Targeted
23/3/2021	1.387806041	103.755012	N.A	7:36	Bird	*Oriolus chinensis*	1	Heard	Targeted
23/3/2021	1.387806041	103.755012	N.A	7:36	Bird	*Treron vernans*	1	Seen	Targeted
23/3/2021	1.387806041	103.755012	N.A	7:36	Butterfly	*Acraea terpsicore*	1	Seen	Incidental
23/3/2021	1.387307988	103.75532	N.A	7:40	Bird	*Aplonis panayensis*	8	Seen	Targeted
23/3/2021	1.387307988	103.75532	N.A	7:40	Bird	*Todiramphus chloris*	1	Heard	Targeted
23/3/2021	1.387307988	103.75532	N.A	7:40	Bird	*Treron vernans*	2	Seen	Targeted
23/3/2021	1.387307988	103.75532	N.A	7:40	Mammal	*Callosciurus notatus*	1	Heard	Targeted
23/3/2021	1.386990985	103.755422	N.A	7:42	Reptile	*Calotes versicolor*	1	Seen	Targeted
23/3/2021	1.386565017	103.755154	N.A	7:44	Bird	*Aplonis panayensis*	2	Heard	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
23/3/2021	1.386565017	103.755154	N.A	7:44	Bird	*Oriolus chinensis*	1	Heard	Targeted
23/3/2021	1.386565017	103.755154	N.A	7:44	Bird	*Todiramphus chloris*	1	Heard	Targeted
23/3/2021	1.385889016	103.755438	N.A	7:47	Bird	*Pycnonotus goiavier*	1	Heard	Targeted
23/3/2021	1.385889016	103.755438	N.A	7:47	Bird	*Treron vernans*	1	Seen	Targeted
23/3/2021	1.385889016	103.755438	N.A	7:47	Bird	*Orthotomus sutorius*	1	Heard	Targeted
23/3/2021	1.385889016	103.755438	N.A	7:47	Mammal	*Callosciurus notatus*	2	Seen	Targeted
23/3/2021	1.385889016	103.755438	N.A	7:47	Mammal	*Callosciurus notatus*	1	Heard	Targeted
23/3/2021	1.385889016	103.755438	N.A	7:47	Reptile	*Calotes versicolor*	1	Seen	Targeted
23/3/2021	1.385611994	103.755674	N.A	7:51	Bird	*Dicaeum cruentatum*	1	Heard	Targeted
23/3/2021	1.385611994	103.755674	N.A	7:51	Bird	*Spilopelia chinensis*	1	Heard	Targeted
23/3/2021	1.385611994	103.755674	N.A	7:51	Bird	*Pycnonotus goiavier*	1	Heard	Targeted
23/3/2021	1.385611994	103.755674	N.A	7:51	Bird	*Aplonis panayensis*	6	Seen	Targeted
23/3/2021	1.385611994	103.755674	N.A	7:51	Bird	*Todiramphus chloris*	2	Seen	Targeted
23/3/2021	1.385611994	103.755674	N.A	7:51	Bird	*Pycnonotus goiavier*	2	Seen	Targeted
23/3/2021	1.38484396	103.756274	N.A	7:57	Bird	*Todiramphus chloris*	1	Seen	Targeted
23/3/2021	1.38484396	103.756274	N.A	7:57	Bird	*Dicaeum cruentatum*	1	Heard	Targeted
23/3/2021	1.38484396	103.756274	N.A	7:57	Mammal	*Callosciurus notatus*	1	Seen	Targeted
23/3/2021	1.384794004	103.757224	N.A	8:05	Bird	*Aerodramus sp.*	3	Seen	Targeted
23/3/2021	1.384794004	103.757224	N.A	8:05	Bird	*Pycnonotus goiavier*	1	Heard	Targeted
23/3/2021	1.384794004	103.757224	N.A	8:05	Bird	*Cinnyris jugularis*	1	Heard	Targeted
23/3/2021	1.384794004	103.757224	N.A	8:05	Bird	*Columba livia*	1	Seen	Targeted
23/3/2021	1.384794004	103.757224	N.A	8:05	Bird	*Aegithina tiphia*	1	Heard	Targeted
23/3/2021	1.384794004	103.757224	N.A	8:05	Bird	*Oriolus chinensis*	1	Heard	Targeted
23/3/2021	1.384794004	103.757224	N.A	8:05	Bird	*Aplonis panayensis*	6	Seen	Targeted
23/3/2021	1.384794004	103.757224	N.A	8:05	Mammal	*Callosciurus notatus*	1	Seen	Targeted
23/3/2021	1.384794004	103.757224	N.A	8:05	Reptile	*Calotes versicolor*	1	Seen	Targeted
23/3/2021	1.384110963	103.757572	N.A	8:09	Bird	*Orthotomus sutorius*	1	Heard	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
23/3/2021	1.384110963	103.757572	N.A	8:09	Bird	*Treron vernans*	1	Seen	Targeted
23/3/2021	1.384110963	103.757572	N.A	8:09	Bird	*Yungipicus moluccensis*	1	Heard	Targeted
23/3/2021	1.384110963	103.757572	N.A	8:09	Bird	*Pycnonotus goiavier*	1	Seen	Targeted
23/3/2021	1.383404033	103.757904	N.A	8:13	Bird	*Aplonis panayensis*	4	Seen	Targeted
23/3/2021	1.383404033	103.757904	N.A	8:13	Bird	*Acridotheres javanicus*	2	Seen	Targeted
23/3/2021	1.383404033	103.757904	N.A	8:13	Bird	*Oriolus chinensis*	1	Seen	Targeted
23/3/2021	1.383404033	103.757904	N.A	8:13	Mammal	*Callosciurus notatus*	1	Seen	Targeted
23/3/2021	1.382224029	103.758016	N.A	8:20	Bird	*Orthotomus sutorius*	2	Heard	Targeted
23/3/2021	1.382224029	103.758016	N.A	8:20	Bird	*Todiramphus chloris*	1	Heard	Targeted
23/3/2021	1.382224029	103.758016	N.A	8:20	Bird	*Aegithina tiphia*	1	Heard	Targeted
23/3/2021	1.382224029	103.758016	N.A	8:20	Bird	*Gerygone sulphurea*	1	Heard	Targeted
23/3/2021	1.382224029	103.758016	N.A	8:20	Mammal	*Callosciurus notatus*	1	Seen	Targeted
23/3/2021	1.382224029	103.758016	N.A	8:20	Mammal	*Callosciurus notatus*	1	Heard	Targeted
23/3/2021	1.381741986	103.757972	N.A	8:23	Bird	*Spilopelia chinensis*	2	Seen	Targeted
23/3/2021	1.381741986	103.757972	N.A	8:23	Bird	*Aegithina tiphia*	1	Heard	Targeted
23/3/2021	1.381741986	103.757972	N.A	8:23	Bird	*Orthotomus sutorius*	1	Seen	Targeted
23/3/2021	1.381741986	103.757972	N.A	8:23	Mammal	*Callosciurus notatus*	1	Seen	Targeted
23/3/2021	1.381118959	103.759228	N.A	8:38	Bird	*Lanius cristatus*	1	Seen	Incidental
25/3/2021	1.388163026	103.754853	N.A	11:13	Butterfly	*Junonia orithya wallacei*	1	Seen	Targeted
25/3/2021	1.388041992	103.754921	N.A	11:14	Butterfly	*Phalanta phalantha phalantha*	1	Seen	Targeted
25/3/2021	1.388041992	103.754921	N.A	11:14	Butterfly	*Junonia orithya wallacei*	1	Seen	Targeted
25/3/2021	1.387860021	103.755018	N.A	11:16	Butterfly	*Acraea terpsicore*	1	Seen	Targeted
25/3/2021	1.386386985	103.755314	N.A	11:24	Butterfly	*Iambrix salsala salsala*	3	Seen	Targeted
25/3/2021	1.386364019	103.755383	N.A	11:25	Butterfly	*Melanitis leda leda*	1	Seen	Targeted
25/3/2021	1.386364019	103.755383	N.A	11:26	Butterfly	*Iambrix salsala salsala*	1	Seen	Targeted
25/3/2021	1.386364019	103.755383	N.A	11:26	Butterfly	*Delias hyparete metarete*	1	Seen	Targeted
25/3/2021	1.386157991	103.755452	N.A	11:27	Butterfly	*Junonia hedonia ida*	2	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
25/3/2021	1.386157991	103.755452	N.A	11:27	Butterfly	*Hypolimnas bolina bolina*	1	Seen	Targeted
25/3/2021	1.386157991	103.755452	N.A	11:28	Butterfly	*Junonia atlites atlites*	1	Seen	Targeted
25/3/2021	1.385782985	103.755824	N.A	11:32	Butterfly	*Junonia atlites atlites*	1	Seen	Targeted
25/3/2021	1.385636972	103.755888	N.A	11:33	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
25/3/2021	1.385523984	103.75592	N.A	11:33	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
25/3/2021	1.385441003	103.755985	N.A	11:34	Butterfly	*Appias libythea olferna*	1	Seen	Targeted
25/3/2021	1.385441003	103.755985	N.A	11:34	Butterfly	*Acraea terpsicore*	1	Seen	Targeted
25/3/2021	1.385441003	103.755985	N.A	11:35	Butterfly	*Anthene emolus goberus*	1	Seen	Targeted
25/3/2021	1.385383001	103.756018	N.A	11:36	Butterfly	*Appias libythea olferna*	1	Seen	Targeted
25/3/2021	1.385383001	103.756018	N.A	11:36	Butterfly	*Delias hyparete metarete*	1	Seen	Targeted
25/3/2021	1.385029033	103.756177	N.A	11:39	Butterfly	*Mycalesis mineus macromalayana*	1	Seen	Targeted
25/3/2021	1.384875979	103.756387	N.A	11:39	Butterfly	*Acraea terpsicore*	1	Seen	Targeted
25/3/2021	1.384875979	103.756387	N.A	11:40	Butterfly	*Zizula hylax pygmaea*	1	Seen	Targeted
25/3/2021	1.384695014	103.756487	N.A	11:41	Butterfly	*Appias libythea olferna*	2	Seen	Targeted
25/3/2021	1.384695014	103.756487	N.A	11:41	Butterfly	*Junonia orithya wallacei*	1	Seen	Targeted
25/3/2021	1.384695014	103.756487	N.A	11:41	Butterfly	*Acraea terpsicore*	2	Seen	Targeted
25/3/2021	1.384651009	103.756642	N.A	11:43	Butterfly	*Junonia hedonia ida*	2	Seen	Targeted
25/3/2021	1.384651009	103.756642	N.A	11:43	Butterfly	*Matapa aria*	10	Seen	Targeted
25/3/2021	1.38465696	103.756798	N.A	11:45	Butterfly	*Junonia atlites atlites*	1	Seen	Targeted
25/3/2021	1.38465696	103.756798	N.A	11:45	Butterfly	*Acraea terpsicore*	1	Seen	Targeted
25/3/2021	1.38465696	103.756798	N.A	11:45	Butterfly	*Junonia orithya wallacei*	1	Seen	Targeted
25/3/2021	1.384710018	103.757006	N.A	11:46	Butterfly	*Junonia orithya wallacei*	1	Seen	Targeted
25/3/2021	1.384710018	103.757006	N.A	11:46	Butterfly	*Junonia atlites atlites*	1	Seen	Targeted
25/3/2021	1.384572973	103.757265	N.A	11:47	Butterfly	*Acraea terpsicore*	1	Seen	Targeted
25/3/2021	1.384512959	103.757293	N.A	11:48	Butterfly	*Junonia orithya wallacei*	1	Seen	Targeted
25/3/2021	1.384512959	103.757293	N.A	11:48	Butterfly	*Appias libythea olferna*	1	Seen	Targeted
25/3/2021	1.384512959	103.757293	N.A	11:48	Butterfly	*Junonia atlites atlites*	2	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
25/3/2021	1.384269968	103.757407	N.A	11:50	Butterfly	*Junonia atlites atlites*	1	Seen	Targeted
25/3/2021	1.384134013	103.757478	N.A	11:51	Butterfly	*Junonia orithya wallacei*	1	Seen	Targeted
25/3/2021	1.384134013	103.757478	N.A	11:51	Butterfly	*Appias libythea olferna*	2	Seen	Targeted
25/3/2021	1.384134013	103.757478	N.A	11:51	Butterfly	*Acraea terpsicore*	2	Seen	Targeted
25/3/2021	1.383957993	103.757556	N.A	11:52	Butterfly	*Junonia orithya wallacei*	1	Seen	Targeted
25/3/2021	1.383957993	103.757556	N.A	11:52	Butterfly	*Zizina otis lampa*	1	Seen	Targeted
25/3/2021	1.383697987	103.757785	N.A	11:53	Butterfly	*Zizina otis lampa*	5	Seen	Targeted
25/3/2021	1.383290961	103.75799	N.A	11:56	Butterfly	*Junonia almana javana*	1	Seen	Targeted
25/3/2021	1.383189037	103.757862	N.A	11:56	Butterfly	*Junonia orithya wallacei*	1	Seen	Targeted
25/3/2021	1.383189037	103.757862	N.A	11:56	Butterfly	*Junonia atlites atlites*	1	Seen	Targeted
25/3/2021	1.383189037	103.757862	N.A	11:56	Butterfly	*Eurema sp.*	1	Seen	Targeted
25/3/2021	1.383127011	103.757709	N.A	11:57	Butterfly	*Junonia almana javana*	1	Seen	Targeted
25/3/2021	1.383127011	103.757709	N.A	11:57	Butterfly	*Junonia atlites atlites*	1	Seen	Targeted
25/3/2021	1.382980999	103.757527	N.A	11:59	Butterfly	*Junonia atlites atlites*	2	Seen	Targeted
25/3/2021	1.382980999	103.757527	N.A	11:59	Butterfly	*Prosotas dubiosa lumpura*	2	Seen	Targeted
25/3/2021	1.382746976	103.757629	N.A	12:03	Bird	*Cuculus micropterus*	1	Seen	Incidental
25/3/2021	1.382755022	103.757414	N.A	12:05	Butterfly	*Iambrix salsala salsala*	1	Seen	Targeted
25/3/2021	1.382484036	103.757565	N.A	12:06	Butterfly	*Prosotas dubiosa lumpura*	1	Seen	Targeted
25/3/2021	1.382484036	103.757565	N.A	12:07	Butterfly	*Junonia atlites atlites*	1	Seen	Targeted
25/3/2021	1.382484036	103.757565	N.A	12:07	Butterfly	*Mycalesis mineus macromalayana*	1	Seen	Targeted
25/3/2021	1.382036023	103.757888	N.A	12:09	Butterfly	*Mycalesis mineus macromalayana*	1	Seen	Targeted
25/3/2021	1.382036023	103.757888	N.A	12:09	Butterfly	*Junonia atlites atlites*	1	Seen	Targeted
25/3/2021	1.382036023	103.757888	N.A	12:10	Butterfly	*Prosotas dubiosa lumpura*	10	Seen	Targeted
25/3/2021	1.38196704	103.757974	N.A	12:12	Butterfly	*Prosotas dubiosa lumpura*	10	Seen	Targeted
25/3/2021	1.38196704	103.757974	N.A	12:12	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
25/3/2021	1.381746009	103.758112	N.A	12:13	Bird	*Gerygone sulphurea*	1	Heard	Targeted
25/3/2021	1.381854974	103.758065	N.A	12:13	Butterfly	*Junonia atlites atlites*	2	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
25/3/2021	1.381854974	103.758065	N.A	12:13	Butterfly	*Appias libythea olferna*	1	Seen	Targeted
25/3/2021	1.381746009	103.758112	N.A	12:13	Butterfly	*Junonia atlites atlites*	2	Seen	Targeted
25/3/2021	1.381667973	103.758169	N.A	12:15	Butterfly	*Mycalesis mineus macromalayana*	1	Seen	Targeted
31/3/2021	1.387980971	103.754586	N.A	12:15	Amphibian	*Microhyla mukhlesuri*	30	Heard	Targeted
31/3/2021	1.388052972	103.754958	N.A	13:29	Odonata	*Pantala flavescens*	3	Seen	Targeted
31/3/2021	1.387474034	103.755249	N.A	13:33	Odonata	*Neurothemis fluctuans*	4	Seen	Targeted
31/3/2021	1.387474034	103.755249	N.A	13:33	Odonata	*Brachydiplax chalybea*	1	Seen	Targeted
31/3/2021	1.387474034	103.755249	N.A	13:33	Odonata	*Trithemis aurora*	1	Seen	Targeted
31/3/2021	1.387474034	103.755249	N.A	13:35	Odonata	*Crocothemis servilia*	1	Seen	Targeted
31/3/2021	1.387474034	103.755249	N.A	13:35	Odonata	*Rhyothemis phyllis*	1	Seen	Targeted
31/3/2021	1.387474034	103.755249	N.A	13:35	Odonata	*Tramea transmarina*	2	Seen	Targeted
31/3/2021	1.387257027	103.755331	N.A	13:45	Odonata	*Pantala flavescens*	1	Seen	Targeted
31/3/2021	1.386302998	103.755373	N.A	13:50	Odonata	*Lathrecista asiatica*	4	Seen	Targeted
31/3/2021	1.384913279	103.7562728	N.A	14:02	Odonata	*Orthetrum chrysis*	1	Seen	Targeted
31/3/2021	1.384613961	103.757224	N.A	14:09	Bird	*Lanius sp.*	1	Seen	Incidental
31/3/2021	1.383647025	103.757734	N.A	14:14	Odonata	*Neurothemis fluctuans*	1	Seen	Targeted
31/3/2021	1.382228974	103.757848	N.A	14:23	Bird	*Cuculidae*	1	Seen	Incidental
31/3/2021	1.381925968	103.75809	N.A	14:25	Odonata	*Lathrecista asiatica*	2	Seen	Targeted
31/3/2021	1.381753972	103.758201	N.A	14:26	Odonata	*Lathrecista asiatica*	1	Seen	Targeted
31/3/2021	1.387980971	103.754586	N.A	20:06	Amphibian	*Polypedates leucomystax*	1	Heard	Targeted
31/3/2021	1.388395038	103.754759	N.A	20:07	Reptile	*Calotes versicolor*	2	Seen	Targeted
31/3/2021	1.388211977	103.754857	N.A	20:08	Amphibian	*Duttaphrynus melanostictus*	2	Seen	Targeted
31/3/2021	1.388015002	103.754961	N.A	20:09	Amphibian	*Duttaphrynus melanostictus*	2	Seen	Targeted
31/3/2021	1.387949958	103.754983	N.A	20:09	Reptile	*Calotes versicolor*	1	Seen	Targeted
31/3/2021	1.387551986	103.75521	N.A	20:10	Amphibian	*Polypedates leucomystax*	1	Heard	Targeted
31/3/2021	1.387551986	103.75521	N.A	20:10	Amphibian	*Microhyla mukhlesuri*	1	Heard	Targeted
31/3/2021	1.387457019	103.755243	N.A	20:11	Amphibian	*Microhyla butleri*	20	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
31/3/2021	1.387457019	103.755243	N.A	20:11	Reptile	*Hemidactylus frenatus*	1	Seen	Targeted
31/3/2021	1.387457019	103.755243	N.A	20:11	Reptile	*Calotes versicolor*	2	Seen	Targeted
31/3/2021	1.387346964	103.755333	N.A	20:13	Bird	*Caprimulgus sp.*	1	Seen	Targeted
31/3/2021	1.387346964	103.755333	N.A	20:13	Reptile	*Calotes versicolor*	1	Seen	Targeted
31/3/2021	1.387050999	103.755449	N.A	20:14	Amphibian	*Duttaphrynus melanostictus*	1	Seen	Targeted
31/3/2021	1.386129996	103.755381	N.A	20:21	Amphibian	*Kaloula pulchra*	2	Seen	Targeted
31/3/2021	1.385733029	103.755497	N.A	20:24	Amphibian	*Microhyla mukhlesuri*	5	Heard	Targeted
31/3/2021	1.385733029	103.755497	N.A	20:24	Amphibian	*Duttaphrynus melanostictus*	1	Seen	Targeted
31/3/2021	1.385620041	103.755552	N.A	20:25	Amphibian	*Duttaphrynus melanostictus*	3	Seen	Targeted
31/3/2021	1.385559021	103.755586	N.A	20:26	Mammal	*Rattus sp.*	1	Seen	Targeted
31/3/2021	1.386901299	103.7543827	N.A	20:27	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
31/3/2021	1.386901299	103.7543827	N.A	20:27	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
31/3/2021	1.385163981	103.756045	N.A	20:29	Amphibian	*Microhyla mukhlesuri*	10	Heard	Targeted
31/3/2021	1.386901299	103.7543827	N.A	20:29	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
31/3/2021	1.386901299	103.7543827	N.A	20:29	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
31/3/2021	1.384886038	103.756226	N.A	20:31	Amphibian	*Eleutherodactylus planirostris*	1	Seen	Targeted
31/3/2021	1.384886038	103.756226	N.A	20:31	Reptile	*Hemidactylus frenatus*	1	Seen	Targeted
31/3/2021	1.384791993	103.756365	N.A	20:32	Reptile	*Calotes versicolor*	1	Seen	Targeted
31/3/2021	1.386901299	103.7543827	N.A	20:33	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
31/3/2021	1.384654026	103.756673	N.A	20:35	Reptile	*Calotes versicolor*	1	Seen	Targeted
31/3/2021	1.386901299	103.7543827	N.A	20:35	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
31/3/2021	1.384857958	103.756966	N.A	20:36	Reptile	*Calotes versicolor*	1	Seen	Targeted
31/3/2021	1.386901299	103.7543827	N.A	20:36	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
31/3/2021	1.386901299	103.7543827	N.A	20:36	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
31/3/2021	1.386901299	103.7543827	N.A	20:36	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
31/3/2021	1.386901299	103.7543827	N.A	20:36	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
31/3/2021	1.386901299	103.7543827	N.A	20:36	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
31/3/2021	1.384999026	103.757113	N.A	20:38	Amphibian	*Duttaphrynus melanostictus*	1	Seen	Targeted
31/3/2021	1.384999026	103.757113	N.A	20:38	Reptile	*Calotes versicolor*	1	Seen	Targeted
31/3/2021	1.384886038	103.757177	N.A	20:38	Reptile	*Calotes versicolor*	3	Seen	Targeted
31/3/2021	1.384806996	103.757225	N.A	20:39	Reptile	*Calotes versicolor*	1	Seen	Targeted
31/3/2021	1.384687973	103.757273	N.A	20:39	Reptile	*Calotes versicolor*	2	Seen	Targeted
31/3/2021	1.384575991	103.757328	N.A	20:39	Reptile	*Calotes versicolor*	1	Seen	Targeted
31/3/2021	1.384377005	103.757433	N.A	20:40	Reptile	*Calotes versicolor*	1	Seen	Targeted
31/3/2021	1.384188998	103.757551	N.A	20:41	Reptile	*Calotes versicolor*	3	Seen	Targeted
31/3/2021	1.384188998	103.757551	N.A	20:41	Reptile	*Ahaetulla prasina*	1	Seen	Targeted
31/3/2021	1.386901299	103.7543827	N.A	20:43	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
31/3/2021	1.383578042	103.757831	N.A	20:44	Amphibian	*Microhyla mukhlesuri*	3	Heard	Targeted
31/3/2021	1.383578042	103.757831	N.A	20:44	Bird	*Caprimulgus macrurus*	1	Seen	Targeted
31/3/2021	1.383276964	103.757908	N.A	20:45	Reptile	*Calotes versicolor*	1	Seen	Targeted
31/3/2021	1.386901299	103.7543827	N.A	20:45	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
31/3/2021	1.382908998	103.757864	N.A	20:46	Amphibian	*Microhyla mukhlesuri*	2	Heard	Targeted
31/3/2021	1.382723004	103.757784	N.A	20:47	Amphibian	*Eleutherodactylus planirostris*	1	Heard	Targeted
31/3/2021	1.386901299	103.7543827	N.A	20:47	Mammal	*Myotis muricola*	1	Acoustic	Targeted
31/3/2021	1.386901299	103.7543827	N.A	20:48	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
31/3/2021	1.386901299	103.7543827	N.A	20:49	Mammal	*Myotis muricola*	1	Acoustic	Targeted
31/3/2021	1.386901299	103.7543827	N.A	20:49	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
31/3/2021	1.386901299	103.7543827	N.A	20:49	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
31/3/2021	1.38224599	103.758039	N.A	20:50	Reptile	*Calotes versicolor*	1	Seen	Targeted
31/3/2021	1.386901299	103.7543827	N.A	20:50	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
31/3/2021	1.386901299	103.7543827	N.A	20:50	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
31/3/2021	1.386901299	103.7543827	N.A	20:50	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
31/3/2021	1.386901299	103.7543827	N.A	20:50	Mammal	*Scotophilus kuhlii*	1	Acoustic	Targeted
31/3/2021	1.382209025	103.758064	N.A	20:51	Amphibian	*Eleutherodactylus planirostris*	1	Heard	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
31/3/2021	1.382002998	103.758153	N.A	20:51	Reptile	*Hemidactylus frenatus*	1	Seen	Targeted
31/3/2021	1.381771993	103.758206	N.A	20:52	Amphibian	*Eleutherodactylus planirostris*	1	Seen	Targeted
31/3/2021	1.381829996	103.758207	N.A	20:52	Reptile	*Hemidactylus frenatus*	1	Seen	Targeted
31/3/2021	1.381771993	103.758206	N.A	20:52	Reptile	*Hemidactylus frenatus*	1	Seen	Targeted
31/3/2021	1.381677026	103.758191	N.A	20:52	Reptile	*Calotes versicolor*	1	Seen	Targeted
31/3/2021	1.381313	103.758237	N.A	20:53	Reptile	*Calotes versicolor*	2	Seen	Targeted
22/4/2021	1.383668315	103.7561077	D1_03	21:38	Amphibian	*Duttaphrynus melanostictus*	3	Seen	Targeted
22/4/2021	1.383668315	103.7561077	D1_03	21:38	Fish	*Poecilia reticulata*	100	Seen	Targeted
22/4/2021	1.381730922	103.7577384	D1_04	21:47	Reptile	*Trachemys scripta*	1	Seen	Targeted
22/4/2021	1.381176291	103.7597424	D1_05	21:59	Amphibian	*Duttaphrynus melanostictus*	2	Seen	Targeted
22/4/2021	1.381176291	103.7597424	D1_05	21:59	Amphibian	*Fejervarya cancrivora*	1	Heard	Targeted
22/4/2021	1.381176291	103.7597424	D1_05	21:59	Reptile	*Hemidactylus brookii*	3	Seen	Incidental
22/4/2021	1.380989039	103.759296	N.A	22:15	Fish	*Heterotilapia buttikoferi*	1	Seen	Incidental
22/4/2021	1.380989039	103.759296	N.A	22:17	Amphibian	*Duttaphrynus melanostictus*	3	Seen	Targeted
22/4/2021	1.386045925	103.7546675	D1_02	22:21	Amphibian	*Duttaphrynus melanostictus*	11	Seen	Targeted
22/4/2021	1.386045925	103.7546675	D1_02	22:21	Mammal	*Microchiroptera*	1	Seen	Targeted
22/4/2021	1.388531998	103.7533666	D1_01	22:35	Amphibian	*Duttaphrynus melanostictus*	6	Seen	Targeted
22/4/2021	1.388531998	103.7533666	D1_01	22:35	Amphibian	*Kaloula pulchra*	1	Seen	Targeted
22/4/2021	1.388531998	103.7533666	D1_01	22:35	Fish	*Cichlidae*	1	Seen	Targeted
22/4/2021	1.388531998	103.7533666	D1_01	22:35	Fish	*Poecilia reticulata*	100	Seen	Targeted
22/4/2021	1.388531998	103.7533666	D1_01	22:35	N.A	*Puntigrus partipentazona*	2	Seen	Targeted
22/4/2021	1.388531998	103.7533666	D1_01	22:35	Fish	*Rhinogobius sp.*	2	Seen	Targeted
29/4/2021	1.381176291	103.7597424	D1_05	11:37	Odonate	*Pantala flavescens*	1	Seen	Targeted
29/4/2021	1.381176291	103.7597424	D1_05	11:43	Odonate	*Orthetrum sabina*	1	Seen	Incidental
29/4/2021	1.383668315	103.7561077	D1_03	12:00	Fish	*Poecilia reticulata*	11	Seen	Targeted
29/4/2021	1.388531998	103.7533666	D1_01	12:28	Fish	*Amphilophus citrinellus*	1	Seen	Targeted
29/4/2021	1.388531998	103.7533666	D1_01	12:28	Fish	*Poecilia reticulata*	105	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
29/4/2021	1.388531998	103.7533666	D1_01	12:28	Odonate	*Orthetrum sabina*	1	Seen	Targeted
########	1.381733017	103.75819	N.A	7:08	Bird	*Halcyon smyrnensis*	1	Heard	Targeted
########	1.381733017	103.75819	N.A	7:08	Bird	*Zosterops simplex*	1	Heard	Targeted
########	1.381733017	103.75819	N.A	7:08	Bird	*Oriolus chinensis*	2	Heard	Targeted
########	1.381733017	103.75819	N.A	7:08	Bird	*Cinnyris jugularis*	2	Heard	Targeted
########	1.382012973	103.757939	N.A	7:15	Bird	*Muscicapa dauurica*	3	Heard	Targeted
########	1.382223023	103.757826	N.A	7:17	Bird	*Phylloscopus borealis*	1	Heard	Targeted
########	1.382223023	103.757826	N.A	7:17	Bird	*Lanius cristatus*	1	Heard	Targeted
########	1.382223023	103.757826	N.A	7:17	Bird	*Dicaeum cruentatum*	1	Heard	Targeted
########	1.382223023	103.757826	N.A	7:17	Bird	*Halcyon smyrnensis*	1	Heard	Targeted
########	1.382617978	103.757573	N.A	7:25	Bird	*Eudynamys scolopaceus*	1	Heard	Targeted
########	1.382617978	103.757573	N.A	7:25	Bird	*Phylloscopus borealis*	1	Heard	Targeted
########	1.382617978	103.757573	N.A	7:25	Bird	*Treron vernans*	1	Seen	Targeted
########	1.382617978	103.757573	N.A	7:25	Bird	*Oriolus chinensis*	1	Heard	Targeted
########	1.382617978	103.757573	N.A	7:25	Bird	*Aplonis panayensis*	2	Heard	Targeted
########	1.382617978	103.757573	N.A	7:25	Bird	*Ficedula zanthopygia*	1	Heard	Targeted
########	1.383366985	103.757092	N.A	7:34	Bird	*Phylloscopus borealis*	1	Seen	Targeted
########	1.383366985	103.757092	N.A	7:34	Bird	*Lanius cristatus*	1	Heard	Targeted
########	1.383593967	103.756952	N.A	7:36	Bird	*Muscicapa dauurica*	2	Heard	Targeted
########	1.383593967	103.756952	N.A	7:36	Bird	*Phylloscopus borealis*	1	Heard	Targeted
########	1.383593967	103.756952	N.A	7:36	Bird	*Geopelia striata*	1	Heard	Targeted
########	1.383593967	103.756952	N.A	7:36	Bird	*Aegithina tiphia*	3	Heard	Targeted
########	1.383902002	103.756704	N.A	7:38	Bird	*Todiramphus chloris*	1	Heard	Targeted
########	1.384278014	103.756377	N.A	7:40	Bird	*Aplonis panayensis*	3	Heard	Targeted
########	1.384278014	103.756377	N.A	7:40	Bird	*Eudynamys scolopaceus*	2	Heard	Targeted
########	1.384278014	103.756377	N.A	7:40	Bird	*Todiramphus chloris*	1	Heard	Targeted
########	1.384278014	103.756377	N.A	7:40	Bird	*Oriolus chinensis*	1	Heard	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.385525996	103.755521	N.A	7:48	Bird	*Phylloscopus borealis*	1	Heard	Targeted
########	1.385525996	103.755521	N.A	7:48	Bird	*Aegithina tiphia*	3	Seen	Targeted
########	1.385525996	103.755521	N.A	7:48	Bird	*Cinnyris jugularis*	1	Seen	Targeted
########	1.385525996	103.755521	N.A	7:48	Bird	*Ficedula zanthopygia*	1	Seen	Targeted
########	1.38599203	103.755189	N.A	7:59	Bird	*Muscicapa dauurica*	2	Seen	Targeted
########	1.38599203	103.755189	N.A	7:59	Bird	*Orthotomus sutorius*	2	Seen	Targeted
########	1.38599203	103.755189	N.A	7:59	Bird	*Zosterops simplex*	3	Seen	Targeted
########	1.386396959	103.754847	N.A	8:03	Bird	*Todiramphus chloris*	1	Heard	Targeted
########	1.386396959	103.754847	N.A	8:03	Bird	*Aplonis panayensis*	32	Seen	Targeted
########	1.386396959	103.754847	N.A	8:03	Bird	*Muscicapa dauurica*	1	Seen	Targeted
########	1.388326976	103.75484	N.A	8:18	Bird	*Psittacula alexandri*	1	Heard	Incidental
2/11/2021	1.387578975	103.754526	N.A	7:16	Bird	*Egretta garzetta*	1	Seen	Targeted
2/11/2021	1.387578975	103.754526	N.A	7:16	Bird	*Aplonis panayensis*	17	Seen	Targeted
2/11/2021	1.387578975	103.754526	N.A	7:16	Bird	*Lanius tigrinus*	1	Heard	Targeted
2/11/2021	1.387578975	103.754526	N.A	7:16	Bird	*Aerodramus sp.*	1	Seen	Targeted
2/11/2021	1.387115959	103.75484	N.A	7:19	Bird	*Aplonis panayensis*	21	Seen	Targeted
2/11/2021	1.387115959	103.75484	N.A	7:19	Bird	*Aegithina tiphia*	1	Heard	Targeted
2/11/2021	1.386717986	103.755078	N.A	7:22	Bird	*Pernis ptilorhynchus*	1	Seen	Targeted
2/11/2021	1.386717986	103.755078	N.A	7:22	Bird	*Oriolus chinensis*	2	Seen	Targeted
2/11/2021	1.386717986	103.755078	N.A	7:22	Bird	*Orthotomus sutorius*	1	Heard	Targeted
2/11/2021	1.386717986	103.755078	N.A	7:22	Bird	*Phylloscopus borealis*	1	Heard	Targeted
2/11/2021	1.386717986	103.755078	N.A	7:22	Bird	*Pernis ptilorhynchus*	1	Seen	Targeted
2/11/2021	1.386717986	103.755078	N.A	7:22	Bird	*Corvus splendens*	2	Seen	Targeted
2/11/2021	1.385993036	103.755496	N.A	7:29	Bird	*Muscicapa dauurica*	1	Heard	Targeted
2/11/2021	1.385993036	103.755496	N.A	7:29	Bird	*Phylloscopus borealis*	1	Heard	Targeted
2/11/2021	1.385993036	103.755496	N.A	7:29	Bird	*Cinnyris jugularis*	1	Heard	Targeted
2/11/2021	1.385993036	103.755496	N.A	7:29	Bird	*Treron vernans*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
2/11/2021	1.385661028	103.755665	N.A	7:33	Bird	*Pycnonotus goiavier*	1	Heard	Targeted
2/11/2021	1.385262972	103.755991	N.A	7:37	Bird	*Halcyon smyrnensis*	1	Heard	Targeted
2/11/2021	1.385262972	103.755991	N.A	7:37	Bird	*Eudynamys scolopaceus*	1	Heard	Targeted
2/11/2021	1.384578003	103.756594	N.A	7:40	Bird	*Todiramphus chloris*	1	Heard	Targeted
2/11/2021	1.384578003	103.756594	N.A	7:40	Bird	*Chrysophlegma miniaceum*	2	Heard	Targeted
2/11/2021	1.384578003	103.756594	N.A	7:40	Bird	*Eudynamys scolopaceus*	1	Heard	Targeted
2/11/2021	1.384578003	103.756594	N.A	7:40	Bird	*Cinnyris jugularis*	1	Heard	Targeted
2/11/2021	1.383468993	103.757203	N.A	7:45	Bird	*Dicaeum cruentatum*	1	Heard	Targeted
2/11/2021	1.383468993	103.757203	N.A	7:45	Bird	*Phylloscopus borealis*	1	Heard	Targeted
2/11/2021	1.383468993	103.757203	N.A	7:45	Bird	*Lanius cristatus*	1	Heard	Targeted
2/11/2021	1.383468993	103.757203	N.A	7:45	Bird	*Orthotomus sutorius*	1	Heard	Targeted
2/11/2021	1.382684028	103.757715	N.A	7:52	Bird	*Cinnyris jugularis*	1	Heard	Targeted
2/11/2021	1.382684028	103.757715	N.A	7:52	Bird	*Todiramphus chloris*	1	Heard	Targeted
2/11/2021	1.382378004	103.75798	N.A	7:54	Bird	*Lanius cristatus*	1	Heard	Targeted
2/11/2021	1.381847011	103.758154	N.A	7:58	Bird	*Muscicapa dauurica*	1	Heard	Targeted
2/11/2021	1.381055005	103.759069	N.A	8:02	Bird	*Columba livia*	22	Seen	Targeted
########	1.427750001	103.752214	N.A	7:05	Bird	*Todiramphus chloris*	1	Heard	Targeted
########	1.427750001	103.752214	N.A	7:05	Bird	*Rhipidura javanica*	2	Heard	Targeted
########	1.427750001	103.752214	N.A	7:05	Bird	*Todiramphus chloris*	1	Heard	Targeted
########	1.427750001	103.752214	N.A	7:05	Bird	*Psilopogon lineatus*	1	Heard	Targeted
########	1.427750001	103.752214	N.A	7:05	Bird	*Eurystomus orientalis*	1	Heard	Targeted
########	1.427750001	103.752214	N.A	7:05	Bird	*Oriolus chinensis*	1	Heard	Targeted
########	1.427750001	103.752214	N.A	7:05	Bird	*Pycnonotus zeylanicus*	1	Heard	Targeted
########	1.427750001	103.752214	N.A	7:05	Bird	*Eudynamys scolopaceus*	1	Seen	Targeted
########	1.427750001	103.752214	N.A	7:05	Bird	*Treron vernans*	1	Seen	Targeted
########	1.427750001	103.752214	N.A	7:05	Bird	*Columba livia*	1	Seen	Targeted
########	1.427750001	103.752214	N.A	7:05	Bird	*Acridotheres javanicus*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.427750001	103.752214	N.A	7:05	Bird	*Corvus splendens*	3	Seen	Targeted
########	1.427750001	103.752214	N.A	7:05	Bird	*Aerodramus sp.*	3	Seen	Targeted
########	1.42795301	103.752235	N.A	7:14	Bird	*Orthotomus ruficeps*	1	Heard	Targeted
########	1.42795301	103.752235	N.A	7:14	Bird	*Eudynamys scolopaceus*	1	Seen	Targeted
########	1.42795301	103.752235	N.A	7:14	Mammal	*Callosciurus notatus*	1	Seen	Targeted
########	1.428264985	103.752186	N.A	7:16	Bird	*Amaurornis phoenicurus*	1	Heard	Targeted
########	1.428264985	103.752186	N.A	7:16	Bird	*Spilopelia chinensis*	1	Heard	Targeted
########	1.428264985	103.752186	N.A	7:16	Bird	*Haliaeetus leucogaster*	1	Seen	Targeted
########	1.428264985	103.752186	N.A	7:16	Bird	*Haliastur indus*	1	Seen	Targeted
########	1.428264985	103.752186	N.A	7:16	Bird	*Corvus splendens*	7	Seen	Targeted
########	1.428264985	103.752186	N.A	7:16	Mammal	*Callosciurus notatus*	1	Seen	Targeted
########	1.428264985	103.752186	N.A	7:16	Reptile	*Unidentified Gekkonidae*	1	Heard	Targeted
########	1.428535972	103.752133	N.A	7:19	Bird	*Spilopelia chinensis*	1	Heard	Targeted
########	1.428535972	103.752133	N.A	7:19	Bird	*Acridotheres javanicus*	5	Seen	Targeted
########	1.428987002	103.75208	N.A	7:22	Bird	*Todiramphus chloris*	1	Heard	Targeted
########	1.429246003	103.752007	N.A	7:24	Bird	*Oriolus chinensis*	1	Heard	Targeted
########	1.429562001	103.751928	N.A	7:26	Bird	*Todiramphus chloris*	1	Heard	Targeted
########	1.429562001	103.751928	N.A	7:26	Bird	*Aerodramus sp.*	10	Seen	Targeted
########	1.429562001	103.751928	N.A	7:26	Mammal	*Sus scrofa*	1	Seen	Targeted
########	1.429940024	103.75189	N.A	7:28	Bird	*Corvus splendens*	5	Seen	Targeted
########	1.430553999	103.751795	N.A	7:31	Bird	*Todiramphus chloris*	1	Seen	Targeted
########	1.430996982	103.751872	N.A	7:35	Bird	*Acridotheres javanicus*	3	Heard	Targeted
########	1.431401996	103.752213	N.A	7:37	Bird	*Pycnonotus goiavier*	1	Heard	Targeted
########	1.431401996	103.752213	N.A	7:37	Bird	*Orthotomus ruficeps*	1	Heard	Targeted
########	1.431401996	103.752213	N.A	7:37	Bird	*Oriolus chinensis*	1	Heard	Targeted
########	1.431401996	103.752213	N.A	7:37	Bird	*Acrocephalus orientalis*	1	Heard	Targeted
########	1.431401996	103.752213	N.A	7:37	Bird	*Butorides striata*	1	Heard	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.431401996	103.752213	N.A	7:37	Bird	*Pycnonotus goiavier*	2	Seen	Targeted
########	1.432617959	103.752539	N.A	7:48	Bird	*Orthotomus sutorius*	1	Heard	Targeted
########	1.432617959	103.752539	N.A	7:48	Bird	*Eudynamys scolopaceus*	2	Heard	Targeted
########	1.432617959	103.752539	N.A	7:48	Bird	*Pycnonotus goiavier*	2	Seen	Targeted
########	1.433051974	103.752621	N.A	7:51	Bird	*Cinnyris jugularis*	1	Heard	Targeted
########	1.433277028	103.752695	N.A	7:52	Butterfly	*Curetis saronis sumatrana*	1	Seen	Targeted
########	1.433601994	103.752792	N.A	7:54	Bird	*Oriolus chinensis*	1	Heard	Targeted
########	1.433811961	103.752857	N.A	7:56	Bird	*Eurystomus orientalis*	1	Heard	Targeted
########	1.433811961	103.752857	N.A	7:56	Bird	*Pycnonotus goiavier*	1	Seen	Targeted
########	1.433811961	103.752857	N.A	7:56	Bird	*Oriolus chinensis*	1	Seen	Targeted
########	1.434066016	103.752919	N.A	7:57	Bird	*Pericrocotus divaricatus*	1	Heard	Targeted
########	1.434066016	103.752919	N.A	7:57	Bird	*Acridotheres javanicus*	1	Seen	Targeted
########	1.434066016	103.752919	N.A	7:57	Bird	*Corvus splendens*	1	Seen	Targeted
########	1.434702035	103.753121	N.A	8:00	Bird	*Cinnyris jugularis*	1	Heard	Targeted
########	1.434702035	103.753121	N.A	8:00	Bird	*Phylloscopus borealis*	1	Seen	Targeted
########	1.434941003	103.753259	N.A	8:01	Bird	*Actitis hypoleucos*	1	Heard	Targeted
########	1.434941003	103.753259	N.A	8:01	Bird	*Oriolus chinensis*	1	Seen	Targeted
########	1.434941003	103.753259	N.A	8:01	Mammal	*Callosciurus notatus*	2	Seen	Targeted
########	1.43554098	103.753299	N.A	8:04	Bird	*Oriolus chinensis*	1	Seen	Targeted
########	1.43554098	103.753299	N.A	8:04	Bird	*Passer montanus*	4	Seen	Targeted
########	1.43554098	103.753299	N.A	8:04	Bird	*Acridotheres javanicus*	5	Seen	Targeted
########	1.43554098	103.753299	N.A	8:04	Bird	*Spilopelia chinensis*	1	Seen	Targeted
########	1.435773997	103.752949	N.A	8:07	Bird	*Dicaeum cruentatum*	1	Heard	Targeted
########	1.435819007	103.752831	N.A	8:11	Bird	*Phylloscopus borealis*	1	Heard	Targeted
########	1.435819007	103.752831	N.A	8:11	Bird	*Todiramphus chloris*	2	Seen	Targeted
########	1.435819007	103.752831	N.A	8:11	Bird	*Egretta garzetta*	2	Seen	Targeted
########	1.435819007	103.752831	N.A	8:11	Bird	*Acridotheres javanicus*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.435819007	103.752831	N.A	8:11	Bird	*Ardea cinerea*	1	Seen	Targeted
########	1.435819007	103.752831	N.A	8:11	Bird	*Butorides striata*	1	Seen	Targeted
########	1.435819007	103.752831	N.A	8:11	Bird	*Amaurornis phoenicurus*	1	Seen	Targeted
########	1.435819007	103.752831	N.A	8:11	Bird	*Spilopelia chinensis*	1	Seen	Targeted
8/12/2021	1.389303971	103.754285	N.A	7:14	Bird	*Haliastur indus*	1	Seen	Targeted
8/12/2021	1.389548974	103.754212	N.A	7:17	Bird	*Cinnyris jugularis*	1	Heard	Targeted
8/12/2021	1.389548974	103.754212	N.A	7:17	Bird	*Pernis ptilorhynchus*	1	Seen	Targeted
8/12/2021	1.389548974	103.754212	N.A	7:17	Bird	*Acridotheres javanicus*	3	Seen	Targeted
8/12/2021	1.389548974	103.754212	N.A	7:17	Bird	*Loriculus galgulus*	1	Seen	Targeted
8/12/2021	1.389548974	103.754212	N.A	7:17	Bird	*Aerodramus sp.*	7	Seen	Targeted
8/12/2021	1.389548974	103.754212	N.A	7:17	Reptile	*Calotes versicolor*	2	Seen	Targeted
8/12/2021	1.389737986	103.754128	N.A	7:18	Bird	*Aplonis panayensis*	5	Seen	Targeted
8/12/2021	1.389931021	103.754035	N.A	7:19	Reptile	*Calotes versicolor*	1	Seen	Targeted
8/12/2021	1.390436031	103.753816	N.A	7:21	Reptile	*Calotes versicolor*	2	Seen	Targeted
8/12/2021	1.390556982	103.753775	N.A	7:22	Bird	*Treron vernans*	4	Seen	Targeted
8/12/2021	1.39078103	103.75369	N.A	7:23	Bird	*Pycnonotus goiavier*	1	Seen	Targeted
8/12/2021	1.39078103	103.75369	N.A	7:23	Bird	*Todiramphus chloris*	1	Seen	Targeted
8/12/2021	1.39115897	103.753581	N.A	7:24	Bird	*Haliastur indus*	1	Seen	Targeted
8/12/2021	1.391234994	103.753306	N.A	7:27	Bird	*Pycnonotus goiavier*	1	Heard	Targeted
8/12/2021	1.391234994	103.753306	N.A	7:27	Bird	*Aegithina tiphia*	1	Heard	Targeted
8/12/2021	1.391234994	103.753306	N.A	7:27	Bird	*Phylloscopus borealis*	1	Heard	Targeted
8/12/2021	1.391234994	103.753306	N.A	7:27	Bird	*Oriolus chinensis*	1	Heard	Targeted
8/12/2021	1.391234994	103.753306	N.A	7:27	Bird	*Lonchura leucogastroides*	3	Seen	Targeted
8/12/2021	1.391234994	103.753306	N.A	7:27	Bird	*Corvus splendens*	1	Seen	Targeted
8/12/2021	1.391555015	103.753258	N.A	7:28	Bird	*Pycnonotus goiavier*	4	Seen	Targeted
8/12/2021	1.391746961	103.753251	N.A	7:29	Bird	*Columba livia*	8	Seen	Targeted
8/12/2021	1.391746961	103.753251	N.A	7:29	Bird	*Actitis hypoleucos*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
8/12/2021	1.391934967	103.7532	N.A	7:31	Bird	*Treron vernans*	4	Seen	Targeted
8/12/2021	1.391934967	103.7532	N.A	7:31	Bird	*Aerodramus sp.*	20	Seen	Targeted
8/12/2021	1.392085003	103.753149	N.A	7:32	Bird	*Zosterops simplex*	1	Heard	Targeted
8/12/2021	1.392085003	103.753149	N.A	7:32	Bird	*Acridotheres javanicus*	1	Seen	Targeted
8/12/2021	1.392235961	103.753135	N.A	7:33	Bird	*Todiramphus chloris*	2	Seen	Targeted
8/12/2021	1.39294398	103.75303	N.A	7:33	Bird	*Dicaeum cruentatum*	1	Heard	Targeted
8/12/2021	1.39294398	103.75303	N.A	7:33	Bird	*Dinopium javanense*	1	Heard	Targeted
8/12/2021	1.39294398	103.75303	N.A	7:33	Bird	*Oriolus chinensis*	1	Seen	Targeted
8/12/2021	1.393397022	103.752969	N.A	7:33	Bird	*Pycnonotus goiavier*	1	Heard	Targeted
8/12/2021	1.393397022	103.752969	N.A	7:34	Bird	*Psittacula longicauda*	1	Heard	Targeted
8/12/2021	1.394510977	103.752783	N.A	7:35	Bird	*Geopelia striata*	9	Seen	Targeted
8/12/2021	1.394510977	103.752783	N.A	7:35	Bird	*Spilopelia chinensis*	1	Seen	Targeted
8/12/2021	1.394758997	103.752756	N.A	7:46	Bird	*Egretta garzetta*	1	Seen	Targeted
8/12/2021	1.394758997	103.752756	N.A	7:46	Bird	*Psittacula alexandri*	1	Seen	Targeted
8/12/2021	1.394758997	103.752756	N.A	7:46	Bird	*Ardea intermedia*	1	Seen	Targeted
8/12/2021	1.394758997	103.752756	N.A	7:46	Bird	*Hirundo rustica*	3	Seen	Targeted
8/12/2021	1.395033002	103.752941	N.A	7:47	Reptile	*Calotes versicolor*	1	Seen	Targeted
8/12/2021	1.395802964	103.752839	N.A	7:52	Bird	*Todiramphus chloris*	1	Heard	Targeted
8/12/2021	1.395802964	103.752839	N.A	7:52	Bird	*Aegithina tiphia*	7	Heard	Targeted
8/12/2021	1.395802964	103.752839	N.A	7:52	Bird	*Treron vernans*	1	Seen	Targeted
8/12/2021	1.396094989	103.752789	N.A	7:53	Bird	*Hirundo tahitica*	2	Seen	Targeted
8/12/2021	1.396094989	103.752789	N.A	7:53	Bird	*Eudynamys scolopaceus*	2	Seen	Targeted
8/12/2021	1.396094989	103.752789	N.A	7:53	Bird	*Corvus splendens*	1	Seen	Targeted
8/12/2021	1.396616008	103.752706	N.A	7:55	Bird	*Orthotomus sutorius*	2	Heard	Targeted
8/12/2021	1.396616008	103.752706	N.A	7:55	Reptile	*Calotes versicolor*	1	Seen	Targeted
8/12/2021	1.397438021	103.752549	N.A	7:59	Bird	*Dicaeum cruentatum*	1	Seen	Targeted
8/12/2021	1.397438021	103.752549	N.A	7:59	Mammal	*Callosciurus notatus*	2	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
8/12/2021	1.39768797	103.752544	N.A	8:00	Reptile	*Calotes versicolor*	1	Seen	Targeted
8/12/2021	1.397854015	103.752493	N.A	8:02	Bird	*Lanius cristatus*	1	Seen	Targeted
8/12/2021	1.397854015	103.752493	N.A	8:02	Bird	*Egretta garzetta*	4	Seen	Targeted
8/12/2021	1.397854015	103.752493	N.A	8:02	Bird	*Yungipicus moluccensis*	1	Seen	Targeted
8/12/2021	1.397854015	103.752493	N.A	8:03	Bird	*Loriculus galgulus*	1	Heard	Targeted
8/12/2021	1.397854015	103.752493	N.A	8:03	Bird	*Acridotheres javanicus*	2	Seen	Targeted
8/12/2021	1.398160039	103.752456	N.A	8:03	Bird	*Ducula bicolor*	2	Seen	Targeted
8/12/2021	1.39868198	103.75246	N.A	8:08	Bird	*Pycnonotus goiavier*	1	Seen	Targeted
8/12/2021	1.398938969	103.75247	N.A	8:09	Bird	*Lalage nigra*	1	Heard	Targeted
8/12/2021	1.398938969	103.75247	N.A	8:09	Bird	*Amaurornis phoenicurus*	1	Seen	Targeted
8/12/2021	1.398938969	103.75247	N.A	8:09	Bird	*Eudynamys scolopaceus*	1	Seen	Targeted
8/12/2021	1.399057992	103.752467	N.A	8:10	Bird	*Orthotomus sericeus*	1	Heard	Targeted
8/12/2021	1.399057992	103.752467	N.A	8:10	Bird	*Prinia flaviventris*	1	Heard	Targeted
8/12/2021	1.399057992	103.752467	N.A	8:10	Bird	*Mixornis gularis*	1	Heard	Targeted
8/12/2021	1.399057992	103.752467	N.A	8:10	Bird	*Pycnonotus goiavier*	1	Seen	Targeted
8/12/2021	1.399220014	103.752475	N.A	8:12	Bird	*Lonchura leucogastroides*	5	Seen	Targeted
8/12/2021	1.399220014	103.752475	N.A	8:12	Bird	*Haliaeetus leucogaster*	1	Seen	Incidental
8/12/2021	1.399220014	103.752475	N.A	8:12	Bird	*Lanius cristatus*	1	Seen	Targeted
8/12/2021	1.399956029	103.752608	N.A	8:16	Bird	*Aplonis panayensis*	4	Seen	Targeted
8/12/2021	1.400122996	103.752589	N.A	8:17	Bird	*Treron vernans*	2	Seen	Targeted
8/12/2021	1.400387026	103.752606	N.A	8:18	Bird	*Amaurornis phoenicurus*	1	Heard	Targeted
8/12/2021	1.401124969	103.75287	N.A	8:21	Bird	*Psittacula krameri*	1	Seen	Targeted
8/12/2021	1.401124969	103.75287	N.A	8:21	Bird	*Psittacula alexandri*	4	Seen	Targeted
8/12/2021	1.401124969	103.75287	N.A	8:21	Bird	*Acridotheres javanicus*	5	Seen	Targeted
8/12/2021	1.401124969	103.75287	N.A	8:21	Bird	*Corvus splendens*	1	Seen	Targeted
8/12/2021	1.401124969	103.75287	N.A	8:21	Bird	*Spilopelia chinensis*	1	Seen	Targeted
8/12/2021	1.401453959	103.752936	N.A	8:22	Bird	*Pycnonotus goiavier*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
8/12/2021	1.401453959	103.752936	N.A	8:22	Reptile	*Calotes versicolor*	1	Seen	Targeted
8/12/2021	1.402444029	103.753312	N.A	8:26	Bird	*Loriculus galgulus*	1	Seen	Targeted
8/12/2021	1.402671011	103.753328	N.A	8:28	Bird	*Cinnyris jugularis*	1	Seen	Targeted
8/12/2021	1.40397599	103.753825	N.A	8:33	Reptile	*Calotes versicolor*	1	Seen	Targeted
8/12/2021	1.404129965	103.753872	N.A	8:34	Reptile	*Calotes versicolor*	1	Seen	Targeted
8/12/2021	1.404995983	103.754087	N.A	8:37	Bird	*Pycnonotus goiavier*	1	Heard	Targeted
8/12/2021	1.40516798	103.75415	N.A	8:38	Bird	*Dinopium javanense*	1	Heard	Targeted
8/12/2021	1.40516798	103.75415	N.A	8:38	Reptile	*Calotes versicolor*	1	Seen	Targeted
8/12/2021	1.405518008	103.754248	N.A	8:40	Bird	*Loriculus galgulus*	1	Heard	Targeted
8/12/2021	1.405768963	103.754326	N.A	8:41	Mammal	*Callosciurus notatus*	1	Heard	Targeted
8/12/2021	1.405944983	103.754407	N.A	8:43	Reptile	*Calotes versicolor*	2	Seen	Targeted
8/12/2021	1.406746963	103.754634	N.A	8:47	Bird	*Orthotomus sutorius*	1	Heard	Targeted
8/12/2021	1.406746963	103.754634	N.A	8:47	Bird	*Corvus splendens*	1	Seen	Targeted
8/12/2021	1.406746963	103.754634	N.A	8:47	Butterfly	*Phalanta phalantha phalantha*	1	Seen	Incidental
8/12/2021	1.406746963	103.754634	N.A	8:52	Bird	*Amaurornis phoenicurus*	1	Seen	Incidental
8/12/2021	1.407738961	103.754331	N.A	8:52	Reptile	*Trachemys scripta*	1	Seen	Incidental
########	1.407841975	103.755051	N.A	7:02	Bird	*Pericrocotus divaricatus*	3	Heard	Targeted
########	1.407841975	103.755051	N.A	7:02	Bird	*Prinia flaviventris*	1	Heard	Targeted
########	1.407841975	103.755051	N.A	7:02	Bird	*Acridotheres javanicus*	5	Seen	Targeted
########	1.407976002	103.755089	N.A	7:04	Bird	*Pycnonotus goiavier*	2	Seen	Targeted
########	1.408050014	103.755108	N.A	7:04	Bird	*Aerodramus sp.*	2	Seen	Targeted
########	1.408730038	103.755253	N.A	7:05	Bird	*Acridotheres javanicus*	1	Seen	Targeted
########	1.408812013	103.755287	N.A	7:07	Bird	*Oriolus chinensis*	1	Heard	Targeted
########	1.408812013	103.755287	N.A	7:07	Bird	*Orthotomus sutorius*	1	Heard	Targeted
########	1.408812013	103.755287	N.A	7:07	Bird	*Aplonis panayensis*	4	Seen	Targeted
########	1.408932041	103.755324	N.A	7:09	Bird	*Pycnonotus goiavier*	5	Heard	Targeted
########	1.408932041	103.755324	N.A	7:09	Bird	*Todiramphus chloris*	1	Heard	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.408932041	103.755324	N.A	7:09	Bird	*Oriolus chinensis*	2	Heard	Targeted
########	1.408932041	103.755324	N.A	7:09	Bird	*Eudynamys scolopaceus*	1	Seen	Targeted
########	1.408932041	103.755324	N.A	7:09	Bird	*Acridotheres javanicus*	2	Seen	Targeted
########	1.409019968	103.755329	N.A	7:10	Bird	*Prinia flaviventris*	1	Heard	Targeted
########	1.409210991	103.755348	N.A	7:10	Bird	*Aplonis panayensis*	10	Seen	Targeted
########	1.409437973	103.755375	N.A	7:12	Bird	*Aplonis panayensis*	10	Seen	Targeted
########	1.409809962	103.755409	N.A	7:14	Bird	*Pycnonotus goiavier*	5	Heard	Targeted
########	1.409809962	103.755409	N.A	7:14	Bird	*Acridotheres javanicus*	5	Seen	Targeted
########	1.410260992	103.755414	N.A	7:16	Bird	*Lanius cristatus*	1	Seen	Targeted
########	1.410260992	103.755414	N.A	7:16	Bird	*Ploceus philippinus*	15	Seen	Targeted
########	1.410483029	103.755394	N.A	7:18	Bird	*Psittacula longicauda*	20	Seen	Targeted
########	1.410633987	103.755407	N.A	7:19	Bird	*Cinnyris jugularis*	1	Heard	Targeted
########	1.41072996	103.755374	N.A	7:21	Bird	*Dinopium javanense*	1	Heard	Targeted
########	1.41072996	103.755374	N.A	7:21	Bird	*Ardea cinerea*	1	Seen	Targeted
########	1.410820987	103.755394	N.A	7:21	Bird	*Pycnonotus goiavier*	5	Heard	Targeted
########	1.410820987	103.755394	N.A	7:21	Bird	*Columba livia*	8	Seen	Targeted
########	1.41090598	103.755368	N.A	7:23	Bird	*Psittacula alexandri*	4	Seen	Targeted
########	1.411123993	103.755346	N.A	7:23	Bird	*Acridotheres javanicus*	2	Seen	Targeted
########	1.411123993	103.755346	N.A	7:25	Bird	*Pericrocotus divaricatus*	3	Seen	Targeted
########	1.411265982	103.755324	N.A	7:25	Bird	*Acridotheres javanicus*	2	Seen	Targeted
########	1.411265982	103.755324	N.A	7:26	Bird	*Aplonis panayensis*	2	Seen	Targeted
########	1.411359021	103.755299	N.A	7:26	Bird	*Psittacula alexandri*	1	Seen	Targeted
########	1.411488019	103.7553	N.A	7:28	Bird	*Lanius cristatus*	1	Heard	Targeted
########	1.411488019	103.7553	N.A	7:28	Bird	*Acridotheres javanicus*	2	Seen	Targeted
########	1.411658004	103.755279	N.A	7:30	Bird	*Aegithina tiphia*	1	Heard	Targeted
########	1.411658004	103.755279	N.A	7:30	Bird	*Prinia flaviventris*	1	Heard	Targeted
########	1.411658004	103.755279	N.A	7:30	Bird	*Psittacula alexandri*	4	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.411748026	103.755234	N.A	7:32	Bird	*Garrulax leucolophus*	3	Heard	Targeted
########	1.411748026	103.755234	N.A	7:32	Bird	*Treron vernans*	3	Seen	Targeted
########	1.411748026	103.755234	N.A	7:32	Bird	*Pycnonotus goiavier*	5	Seen	Targeted
########	1.411748026	103.755234	N.A	7:32	Bird	*Aplonis panayensis*	5	Seen	Targeted
########	1.411748026	103.755234	N.A	7:32	Bird	*Pericrocotus divaricatus*	5	Seen	Targeted
########	1.411748026	103.755234	N.A	7:32	Bird	*Cinnyris jugularis*	1	Seen	Targeted
########	1.411853973	103.755197	N.A	7:32	Bird	*Oriolus chinensis*	1	Heard	Targeted
########	1.411892027	103.755208	N.A	7:33	Bird	*Pycnonotus goiavier*	7	Heard	Targeted
########	1.411892027	103.755208	N.A	7:33	Bird	*Merops viridis*	1	Heard	Targeted
########	1.411892027	103.755208	N.A	7:33	Bird	*Acridotheres javanicus*	2	Seen	Targeted
########	1.411966961	103.755167	N.A	7:34	Bird	*Aplonis panayensis*	2	Seen	Targeted
########	1.411980037	103.755183	N.A	7:35	Bird	*Yungipicus moluccensis*	1	Heard	Targeted
########	1.411980037	103.755183	N.A	7:35	Bird	*Pycnonotus goiavier*	7	Seen	Targeted
########	1.412258986	103.755159	N.A	7:35	Bird	*Orthotomus sutorius*	1	Heard	Targeted
########	1.412258986	103.755159	N.A	7:35	Bird	*Oriolus chinensis*	2	Heard	Targeted
########	1.412417991	103.755129	N.A	7:38	Bird	*Oriolus chinensis*	2	Seen	Targeted
########	1.412417991	103.755129	N.A	7:38	Bird	*Ploceus philippinus*	5	Seen	Targeted
########	1.412417991	103.755129	N.A	7:38	Bird	*Aplonis panayensis*	30	Seen	Targeted
########	1.412636004	103.75506	N.A	7:41	Bird	*Todiramphus chloris*	1	Heard	Targeted
########	1.412636004	103.75506	N.A	7:41	Bird	*Dinopium javanense*	1	Heard	Targeted
########	1.412636004	103.75506	N.A	7:41	Bird	*Psittacula longicauda*	2	Seen	Targeted
########	1.412636004	103.75506	N.A	7:41	Bird	*Todiramphus chloris*	1	Seen	Targeted
########	1.412636004	103.75506	N.A	7:41	Bird	*Treron vernans*	2	Seen	Targeted
########	1.412751004	103.755019	N.A	7:43	Bird	*Psittacula longicauda*	8	Seen	Targeted
########	1.412844965	103.75503	N.A	7:44	Bird	*Psittacula longicauda*	30	Seen	Targeted
########	1.412844965	103.75503	N.A	7:44	Bird	*Treron vernans*	3	Seen	Targeted
########	1.41304303	103.75501	N.A	7:45	Bird	*Halcyon smyrnensis*	1	Heard	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.41304303	103.75501	N.A	7:45	Bird	*Amaurornis phoenicurus*	1	Seen	Targeted
########	1.41304303	103.75501	N.A	7:45	Bird	*Psittacula longicauda*	15	Seen	Targeted
########	1.41304303	103.75501	N.A	7:45	Bird	*Psittacula alexandri*	1	Seen	Targeted
########	1.413121987	103.754976	N.A	7:46	Bird	*Treron vernans*	2	Seen	Targeted
########	1.413121987	103.754976	N.A	7:46	Bird	*Oriolus chinensis*	2	Seen	Targeted
########	1.41319097	103.754989	N.A	7:47	Bird	*Todiramphus chloris*	1	Heard	Targeted
########	1.41319097	103.754989	N.A	7:47	Bird	*Eurystomus orientalis*	1	Seen	Targeted
########	1.41319097	103.754989	N.A	7:47	Bird	*Ducula bicolor*	4	Seen	Targeted
########	1.41346598	103.754974	N.A	7:49	Bird	*Orthotomus sutorius*	1	Heard	Targeted
########	1.41346598	103.754974	N.A	7:49	Bird	*Treron vernans*	2	Seen	Targeted
########	1.41346598	103.754974	N.A	7:49	Bird	*Eudynamys scolopaceus*	1	Heard	Incidental
########	1.413782984	103.754892	N.A	7:50	Bird	*Acridotheres javanicus*	7	Seen	Targeted
########	1.413782984	103.754892	N.A	7:50	Bird	*Aerodramus sp.*	10	Seen	Targeted
########	1.413965961	103.754835	N.A	7:50	Bird	*Orthotomus ruficeps*	1	Heard	Targeted
########	1.413965961	103.754835	N.A	7:50	Bird	*Eudynamys scolopaceus*	1	Heard	Targeted
########	1.413965961	103.754835	N.A	7:50	Bird	*Pycnonotus goiavier*	1	Heard	Targeted
########	1.414182968	103.754799	N.A	7:55	Bird	*Oriolus chinensis*	2	Heard	Targeted
########	1.41423896	103.754778	N.A	7:55	Bird	*Phylloscopus borealis*	1	Heard	Targeted
########	1.41423896	103.754778	N.A	7:55	Bird	*Prinia flaviventris*	1	Heard	Targeted
########	1.41423896	103.754778	N.A	7:55	Bird	*Psittacula longicauda*	1	Seen	Targeted
########	1.414411962	103.754729	N.A	7:56	Bird	*Eudynamys scolopaceus*	1	Seen	Incidental
########	1.414411962	103.754729	N.A	7:57	Bird	*Aviceda leuphotes*	3	Seen	Targeted
########	1.414651014	103.754719	N.A	7:58	Bird	*Oriolus chinensis*	1	Heard	Targeted
########	1.415481996	103.754573	N.A	8:01	Bird	*Prinia flaviventris*	1	Heard	Targeted
########	1.415590039	103.754508	N.A	8:01	Bird	*Amaurornis phoenicurus*	2	Heard	Targeted
########	1.415590039	103.754508	N.A	8:01	Bird	*Pericrocotus divaricatus*	3	Heard	Targeted
########	1.415590039	103.754508	N.A	8:01	Bird	*Psittacula longicauda*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.415896984	103.754467	N.A	8:04	Bird	*Oriolus chinensis*	1	Seen	Targeted
########	1.41612296	103.75444	N.A	8:05	Bird	*Columba livia*	3	Seen	Targeted
########	1.416233014	103.754422	N.A	8:06	Bird	*Todiramphus chloris*	1	Heard	Targeted
########	1.416233014	103.754422	N.A	8:06	Bird	*Pycnonotus goiavier*	1	Heard	Targeted
########	1.416233014	103.754422	N.A	8:06	Bird	*Oriolus chinensis*	1	Heard	Targeted
########	1.416725032	103.754363	N.A	8:10	Bird	*Oriolus chinensis*	1	Heard	Targeted
########	1.417317968	103.754224	N.A	8:12	Bird	*Eudynamys scolopaceus*	1	Heard	Targeted
########	1.417317968	103.754224	N.A	8:12	Bird	*Aerodramus sp.*	5	Seen	Targeted
########	1.417317968	103.754224	N.A	8:12	Mammal	*Sus scrofa*	1	Seen	Targeted
########	1.417485019	103.754202	N.A	8:14	Bird	*Psittacula alexandri*	3	Seen	Targeted
########	1.417485019	103.754202	N.A	8:14	Bird	*Aplonis panayensis*	1	Seen	Targeted
########	1.417485019	103.754202	N.A	8:14	Bird	*Aerodramus sp.*	5	Seen	Targeted
########	1.417796994	103.754167	N.A	8:16	Bird	*Halcyon smyrnensis*	1	Heard	Targeted
########	1.417796994	103.754167	N.A	8:16	Bird	*Todiramphus chloris*	2	Seen	Targeted
########	1.417796994	103.754167	N.A	8:16	Mammal	*Canis lupus familiaris*	2	Seen	Targeted
########	1.418075021	103.754105	N.A	8:19	Bird	*Columba livia*	3	Seen	Targeted
########	1.418250035	103.754113	N.A	8:20	Bird	*Treron vernans*	2	Seen	Targeted
########	1.418662006	103.754117	N.A	8:22	Bird	*Acridotheres javanicus*	5	Seen	Targeted
########	1.418972975	103.754105	N.A	8:24	Bird	*Chrysophlegma miniaceum*	1	Heard	Targeted
########	1.418972975	103.754105	N.A	8:24	Bird	*Psittacula alexandri*	3	Seen	Targeted
########	1.419091998	103.754133	N.A	8:26	Bird	*Picus vittatus*	1	Heard	Targeted
########	1.419091998	103.754133	N.A	8:26	Bird	*Acridotheres javanicus*	5	Heard	Targeted
########	1.419091998	103.754133	N.A	8:26	Bird	*Oriolus chinensis*	2	Seen	Targeted
########	1.419272041	103.75411	N.A	8:26	Bird	*Acridotheres javanicus*	1	Seen	Targeted
########	1.419329038	103.754154	N.A	8:28	Bird	*Psittacula alexandri*	5	Seen	Targeted
########	1.419374971	103.754135	N.A	8:28	Bird	*Psilopogon lineatus*	1	Seen	Targeted
########	1.419420987	103.754112	N.A	8:28	Bird	*Psittacula alexandri*	5	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.419420987	103.754112	N.A	8:29	Bird	*Aplonis panayensis*	5	Seen	Targeted
########	1.419646041	103.754154	N.A	8:29	Bird	*Oriolus chinensis*	1	Seen	Targeted
########	1.419646041	103.754154	N.A	8:31	Bird	*Corvus macrorhynchos*	2	Seen	Targeted
########	1.419646041	103.754154	N.A	8:31	Bird	*Ploceus philippinus*	3	Seen	Targeted
########	1.41966599	103.754183	N.A	8:31	Bird	*Eudynamys scolopaceus*	2	Heard	Targeted
########	1.419837987	103.754198	N.A	8:31	Bird	*Pycnonotus goiavier*	1	Seen	Targeted
########	1.419907976	103.754194	N.A	8:33	Bird	*Orthotomus sutorius*	1	Heard	Targeted
########	1.419907976	103.754194	N.A	8:33	Bird	*Pycnonotus goiavier*	3	Seen	Targeted
########	1.420087013	103.754201	N.A	8:33	Bird	*Psittacula alexandri*	1	Seen	Targeted
########	1.420178041	103.754206	N.A	8:35	Bird	*Treron vernans*	1	Seen	Targeted
########	1.420633011	103.754231	N.A	8:36	Bird	*Psittacula longicauda*	2	Seen	Targeted
########	1.420633011	103.754231	N.A	8:38	Bird	*Oriolus chinensis*	2	Seen	Targeted
########	1.420633011	103.754231	N.A	8:38	Bird	*Lanius cristatus*	1	Seen	Targeted
########	1.420633011	103.754231	N.A	8:38	Bird	*Loriculus galgulus*	1	Seen	Targeted
########	1.420633011	103.754231	N.A	8:38	Bird	*Pycnonotus goiavier*	1	Seen	Targeted
########	1.420633011	103.754231	N.A	8:38	Bird	*Aerodramus sp.*	10	Seen	Targeted
########	1.420815988	103.754248	N.A	8:39	Bird	*Eudynamys scolopaceus*	1	Heard	Targeted
########	1.420815988	103.754248	N.A	8:39	Bird	*Spilopelia chinensis*	1	Seen	Targeted
########	1.420815988	103.754248	N.A	8:39	Bird	*Pycnonotus goiavier*	2	Seen	Targeted
########	1.420815988	103.754248	N.A	8:39	Bird	*Eurystomus orientalis*	2	Seen	Targeted
########	1.420877008	103.754251	N.A	8:40	Bird	*Psilopogon lineatus*	1	Heard	Targeted
########	1.420877008	103.754251	N.A	8:40	Bird	*Loriculus galgulus*	2	Seen	Targeted
########	1.420877008	103.754251	N.A	8:40	Bird	*Aplonis panayensis*	5	Seen	Targeted
########	1.420975998	103.754272	N.A	8:44	Bird	*Treron vernans*	7	Seen	Targeted
########	1.42145603	103.754284	N.A	8:45	Bird	*Lalage nigra*	1	Heard	Targeted
########	1.42145603	103.754284	N.A	8:45	Bird	*Oriolus chinensis*	2	Seen	Targeted
########	1.42145603	103.754284	N.A	8:45	Bird	*Pycnonotus goiavier*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.421600031	103.754316	N.A	8:47	Bird	*Chrysophlegma miniaceum*	1	Heard	Targeted
########	1.421600031	103.754316	N.A	8:47	Bird	*Halcyon smyrnensis*	1	Heard	Targeted
########	1.421600031	103.754316	N.A	8:47	Bird	*Pycnonotus plumosus*	1	Heard	Targeted
########	1.421600031	103.754316	N.A	8:47	Bird	*Orthotomus sericeus*	1	Heard	Targeted
########	1.421600031	103.754316	N.A	8:47	Bird	*Gallus gallus*	1	Heard	Targeted
########	1.421675971	103.754314	N.A	8:50	Bird	*Loriculus galgulus*	1	Heard	Targeted
########	1.421675971	103.754314	N.A	8:50	Bird	*Yungipicus moluccensis*	1	Heard	Targeted
########	1.421923991	103.754342	N.A	8:51	Bird	*Columba livia*	1	Heard	Targeted
########	1.421923991	103.754342	N.A	8:51	Bird	*Oriolus chinensis*	1	Heard	Targeted
########	1.422253987	103.754356	N.A	8:52	Bird	*Oriolus chinensis*	2	Seen	Targeted
########	1.422397988	103.754397	N.A	8:53	Bird	*Picus vittatus*	1	Heard	Targeted
########	1.422451967	103.753861	N.A	8:56	Mammal	*Sus scrofa*		Seen	Incidental
########	1.42229598	103.753171	N.A	8:59	Bird	*Spilopelia chinensis*	1	Heard	Targeted
########	1.42229598	103.753171	N.A	8:59	Bird	*Cacomantis sonneratii*	1	Heard	Targeted
########	1.42229598	103.753171	N.A	8:59	Bird	*Pycnonotus goiavier*	1	Heard	Targeted
########	1.42229598	103.753171	N.A	8:59	Bird	*Rhipidura javanica*	1	Heard	Targeted
########	1.42229598	103.753171	N.A	8:59	Bird	*Acridotheres javanicus*	2	Seen	Targeted
########	1.422382984	103.753143	N.A	9:00	Bird	*Todiramphus chloris*	1	Heard	Targeted
########	1.42222398	103.753142	N.A	9:00	Mammal	*Lutrogale perspicillata*	1	Seen	Incidental
########	1.422388013	103.753133	N.A	9:01	Bird	*Rhipidura javanica*	1	Heard	Targeted
########	1.422388013	103.753133	N.A	9:01	Bird	*Psittacula alexandri*	2	Seen	Targeted
########	1.422388013	103.753133	N.A	9:01	Bird	*Loriculus galgulus*	1	Seen	Targeted
########	1.422682973	103.753004	N.A	9:03	Bird	*Psittacula krameri*	1	Seen	Targeted
########	1.422967035	103.752999	N.A	9:07	Bird	*Halcyon smyrnensis*	1	Heard	Targeted
########	1.422967035	103.752999	N.A	9:07	Bird	*Psittacula longicauda*	4	Seen	Targeted
########	1.423318991	103.752891	N.A	9:08	Bird	*Treron vernans*	1	Seen	Targeted
########	1.423482019	103.752911	N.A	9:09	Bird	*Psittacula alexandri*	1	Heard	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.423606994	103.752954	N.A	9:11	Bird	*Psittacula krameri*	1	Heard	Targeted
########	1.423606994	103.752954	N.A	9:11	Bird	*Pycnonotus zeylanicus*	1	Heard	Targeted
########	1.42373004	103.75285	N.A	9:11	Bird	*Psittacula alexandri*	1	Heard	Targeted
########	1.423822995	103.752849	N.A	9:14	Bird	*Halcyon smyrnensis*	1	Heard	Targeted
########	1.423818972	103.752835	N.A	9:16	Bird	*Haliaeetus leucogaster*	1	Heard	Targeted
########	1.423818972	103.752835	N.A	9:16	Bird	*Todiramphus chloris*	2	Seen	Targeted
########	1.423947969	103.752796	N.A	9:17	Bird	*Oriolus chinensis*	1	Heard	Targeted
########	1.423947969	103.752796	N.A	9:17	Bird	*Cinnyris jugularis*	1	Heard	Targeted
########	1.424058024	103.752857	N.A	9:18	Mammal	*Sus scrofa*	1	Seen	Targeted
########	1.42408099	103.752875	N.A	9:18	Mammal	*Sus scrofa*	1	Seen	Targeted
########	1.424445016	103.752809	N.A	9:22	Bird	*Psilopogon lineatus*	1	Heard	Targeted
########	1.424445016	103.752809	N.A	9:22	Bird	*Psittacula alexandri*	1	Heard	Targeted
########	1.424737964	103.752722	N.A	9:24	Bird	*Psittacula alexandri*	2	Heard	Targeted
########	1.424794961	103.75274	N.A	9:25	Bird	*Oriolus chinensis*	1	Heard	Targeted
########	1.425030995	103.752665	N.A	9:27	Bird	*Aplonis panayensis*	1	Heard	Targeted
########	1.425265018	103.752582	N.A	9:27	Bird	*Amaurornis phoenicurus*	1	Heard	Targeted
########	1.425265018	103.752582	N.A	9:34	Bird	*Todiramphus chloris*	1	Heard	Targeted
########	1.425265018	103.752582	N.A	9:34	Bird	*Psilopogon lineatus*	1	Heard	Targeted
########	1.425265018	103.752582	N.A	9:34	Bird	*Psittacula alexandri*	1	Heard	Targeted
########	1.425265018	103.752582	N.A	9:34	Bird	*Acridotheres javanicus*	1	Heard	Targeted
########	1.425265018	103.752582	N.A	9:34	Bird	*Psittacula alexandri*	3	Heard	Targeted
########	1.425265018	103.752582	N.A	9:34	Bird	*Pericrocotus divaricatus*	2	Heard	Targeted
########	1.425265018	103.752582	N.A	9:34	Bird	*Merops viridis*	2	Seen	Targeted
########	1.425772961	103.752463	N.A	9:36	Bird	*Todiramphus chloris*	1	Heard	Targeted
########	1.425772961	103.752463	N.A	9:36	Bird	*Spilopelia chinensis*	1	Heard	Targeted
########	1.425936995	103.752457	N.A	9:38	Bird	*Phylloscopus borealis*	1	Heard	Targeted
########	1.426317031	103.752409	N.A	9:40	Bird	*Spilopelia chinensis*	1	Heard	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.426317031	103.752409	N.A	9:40	Bird	*Psittacula alexandri*	2	Seen	Targeted
########	1.426437981	103.752392	N.A	9:42	Mammal	*Sciuridae*	1	Seen	Targeted
########	1.426644009	103.752351	N.A	9:44	Bird	*Dicaeum cruentatum*	1	Heard	Targeted
########	1.426644009	103.752351	N.A	9:44	Bird	*Psittacula alexandri*	2	Seen	Targeted
########	1.426947014	103.752315	N.A	9:47	Bird	*Todiramphus chloris*	1	Heard	Targeted
########	1.427108031	103.752332	N.A	9:48	Bird	*Acridotheres javanicus*	5	Seen	Targeted
########	1.427241974	103.752303	N.A	9:49	Bird	*Todiramphus chloris*	1	Heard	Targeted
########	1.427241974	103.752303	N.A	9:49	Mammal	*Callosciurus notatus*	1	Seen	Targeted
########	1.427284973	103.752294	N.A	9:50	Bird	*Orthotomus ruficeps*	1	Heard	Targeted
########	1.427515978	103.752194	N.A	9:50	Bird	*Dicaeum cruentatum*	1	Heard	Targeted
########	1.427773973	103.752178	N.A	9:55	Bird	*Butorides striata*	1	Seen	Targeted
########	1.427773973	103.752178	N.A	9:55	Bird	*Pelargopsis capensis*	2	Seen	Targeted
########	1.427773973	103.752178	N.A	9:55	Bird	*Dicaeum cruentatum*	1	Seen	Targeted
########	1.435931996	103.753263	N.A	6:57	Bird	*Todiramphus chloris*	1	Seen	Targeted
########	1.435931996	103.753263	N.A	6:57	Bird	*Actitis hypoleucos*	1	Seen	Targeted
########	1.435931996	103.753263	N.A	6:59	Bird	*Corvus splendens*	3	Seen	Targeted
########	1.435931996	103.753263	N.A	7:00	Bird	*Todiramphus chloris*	1	Heard	Targeted
########	1.435931996	103.753263	N.A	7:00	Bird	*Rhipidura javanica*	1	Heard	Targeted
########	1.435931996	103.753263	N.A	7:00	Bird	*Aerodramus sp.*	4	Seen	Targeted
########	1.435931996	103.753263	N.A	7:02	Bird	*Pericrocotus divaricatus*	5	Seen	Targeted
########	1.435931996	103.753263	N.A	7:03	Bird	*Acridotheres javanicus*	2	Seen	Targeted
########	1.435931996	103.753263	N.A	7:03	Bird	*Ardea cinerea*	3	Seen	Targeted
########	1.435519019	103.753312	N.A	7:06	Bird	*Amaurornis phoenicurus*	1	Seen	Targeted
########	1.435519019	103.753312	N.A	7:07	Bird	*Oriolus chinensis*	1	Heard	Targeted
########	1.435519019	103.753312	N.A	7:08	Bird	*Passer montanus*	1	Heard	Targeted
########	1.435519019	103.753312	N.A	7:09	Bird	*Todiramphus chloris*	1	Heard	Targeted
########	1.435519019	103.753312	N.A	7:09	Bird	*Corvus splendens*	2	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.435519019	103.753312	N.A	7:09	Bird	*Acridotheres javanicus*	3	Seen	Targeted
########	1.435519019	103.753312	N.A	7:09	Bird	*Aerodramus sp.*	5	Seen	Targeted
########	1.435519019	103.753312	N.A	7:10	Bird	*Oriolus chinensis*	1	Seen	Targeted
########	1.435519019	103.753312	N.A	7:10	Bird	*Spilopelia chinensis*	1	Seen	Targeted
########	1.435010992	103.753282	N.A	7:11	Bird	*Todiramphus chloris*	1	Heard	Targeted
########	1.435010992	103.753282	N.A	7:11	Bird	*Eudynamys scolopaceus*	1	Heard	Targeted
########	1.434737993	103.753159	N.A	7:13	Bird	*Phylloscopus borealis*	1	Heard	Targeted
########	1.434517968	103.753137	N.A	7:14	Bird	*Muscicapa dauurica*	1	Heard	Targeted
########	1.434070962	103.752927	N.A	7:17	Bird	*Corvus splendens*	1	Seen	Targeted
########	1.434070962	103.752927	N.A	7:17	Bird	*Spilopelia chinensis*	1	Seen	Targeted
########	1.434070962	103.752927	N.A	7:17	Reptile	*Hemidactylus frenatus*	1	Heard	Targeted
########	1.433979012	103.752925	N.A	7:18	Bird	*Orthotomus ruficeps*	1	Heard	Targeted
########	1.433979012	103.752925	N.A	7:18	Bird	*Pycnonotus goiavier*	2	Heard	Targeted
########	1.433979012	103.752925	N.A	7:18	Bird	*Oriolus chinensis*	1	Seen	Targeted
########	1.433979012	103.752925	N.A	7:19	Bird	*Todiramphus chloris*	1	Seen	Targeted
########	1.433979012	103.752925	N.A	7:19	Bird	*Aplonis panayensis*	3	Seen	Targeted
########	1.433696961	103.752793	N.A	7:20	Bird	*Aegithina tiphia*	1	Heard	Targeted
########	1.433696961	103.752793	N.A	7:20	Bird	*Corvus splendens*	1	Seen	Targeted
########	1.433696961	103.752793	N.A	7:20	Bird	*Acridotheres javanicus*	2	Seen	Targeted
########	1.433475008	103.752766	N.A	7:21	Bird	*Corvus splendens*	1	Seen	Targeted
########	1.433475008	103.752766	N.A	7:21	Bird	*Acridotheres javanicus*	3	Seen	Targeted
########	1.433475008	103.752766	N.A	7:21	Bird	*Spilopelia chinensis*	1	Seen	Targeted
########	1.433112994	103.752605	N.A	7:23	Mammal	*Callosciurus notatus*	1	Seen	Targeted
########	1.43294896	103.752519	N.A	7:24	Bird	*Todiramphus chloris*	1	Heard	Targeted
########	1.432694988	103.752454	N.A	7:25	Bird	*Lanius cristatus*	1	Seen	Targeted
########	1.432694988	103.752454	N.A	7:25	Bird	*Pycnonotus goiavier*	1	Seen	Targeted
########	1.432321994	103.752215	N.A	7:28	Bird	*Cinnyris jugularis*	1	Heard	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.432101969	103.75218	N.A	7:30	Bird	*Corvus splendens*	1	Seen	Targeted
########	1.431185994	103.751863	N.A	7:36	Bird	*Todiramphus chloris*	1	Heard	Targeted
########	1.430722978	103.7517	N.A	7:38	Bird	*Spilopelia chinensis*	1	Heard	Targeted
########	1.430722978	103.7517	N.A	7:39	Bird	*Pycnonotus goiavier*	1	Heard	Targeted
########	1.430272032	103.751709	N.A	7:43	Bird	*Corvus splendens*	5	Seen	Targeted
########	1.430272032	103.751709	N.A	7:43	Bird	*Acridotheres javanicus*	5	Seen	Targeted
########	1.429866012	103.751908	N.A	7:44	Bird	*Pycnonotus goiavier*	2	Heard	Targeted
########	1.429866012	103.751908	N.A	7:45	Bird	*Corvus splendens*	2	Seen	Targeted
########	1.429668032	103.751943	N.A	7:45	Bird	*Corvus splendens*	3	Seen	Targeted
########	1.429668032	103.751943	N.A	7:45	Mammal	*Callosciurus notatus*	1	Seen	Targeted
########	1.429668032	103.751943	N.A	7:46	Mammal	*Callosciurus notatus*	1	Seen	Targeted
########	1.429484971	103.751921	N.A	7:47	Bird	*Pycnonotus goiavier*	1	Heard	Targeted
########	1.429484971	103.751921	N.A	7:47	Bird	*Oriolus chinensis*	2	Heard	Targeted
########	1.429484971	103.751921	N.A	7:47	Bird	*Hirundo rustica*	1	Seen	Targeted
########	1.429484971	103.751921	N.A	7:47	Bird	*Aerodramus sp.*	10	Seen	Targeted
########	1.429275004	103.752001	N.A	7:48	Bird	*Todiramphus chloris*	1	Heard	Targeted
########	1.428591041	103.752101	N.A	7:51	Bird	*Spilopelia chinensis*	1	Heard	Targeted
########	1.428591041	103.752101	N.A	7:51	Mammal	*Callosciurus notatus*	1	Seen	Targeted
########	1.428311002	103.752152	N.A	7:53	Bird	*Ficedula zanthopygia*	1	Heard	Targeted
########	1.427800963	103.752173	N.A	7:56	Bird	*Amaurornis phoenicurus*	1	Heard	Targeted
########	1.427800963	103.752173	N.A	7:56	Bird	*Dicaeum cruentatum*	1	Heard	Targeted
########	1.427800963	103.752173	N.A	7:56	Bird	*Psilopogon lineatus*	1	Heard	Targeted
########	1.427858965	103.752642	N.A	8:00	Bird	*Cacomantis sonneratii*	1	Heard	Targeted
########	1.427858965	103.752642	N.A	8:00	Bird	*Pycnonotus zeylanicus*	1	Heard	Incidental
########	1.415179996	103.754682	N.A	7:26	Amphibian	*Eleutherodactylus planirostris*	2	Heard	Targeted
########	1.41532802	103.75461	N.A	7:26	Amphibian	*Eleutherodactylus planirostris*	1	Heard	Targeted
########	1.41574502	103.75456	N.A	7:29	Amphibian	*Microhyla heymonsi*	1	Heard	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.416140981	103.754459	N.A	7:29	Amphibian	*Eleutherodactylus planirostris*	2	Heard	Targeted
########	1.416919995	103.754319	N.A	7:33	Amphibian	*Eleutherodactylus planirostris*	2	Heard	Targeted
########	1.423688969	103.752879	N.A	8:03	Bird	*Caprimulgus macrurus*	1	Seen	Incidental
########	1.424189033	103.752877	N.A	8:07	Bird	*Nisaetus cirrhatus*	1	Seen	Incidental
########	1.407727981	103.754335	0m	7:07	Amphibian	*Microhyla butleri*	1	Heard	Incidental
########	1.407727981	103.754335	0m	7:07	Bird	*Amaurornis phoenicurus*	1	Seen	Incidental
########	1.407727981	103.754335	0m	7:07	Bird	*Gallus gallus*	1	Seen	Incidental
########	1.407286003	103.754513	0m	7:09	Bird	*Pericrocotus divaricatus*	1	Heard	Incidental
########	1.407286003	103.754513	0m	7:09	Bird	*Orthotomus ruficeps*	1	Heard	Incidental
########	1.407286003	103.754513	0m	7:09	Bird	*Eudynamys scolopaceus*	1	Heard	Incidental
########	1.407286003	103.754513	0m	7:09	Bird	*Dicaeum cruentatum*	1	Heard	Incidental
########	1.407286003	103.754513	0m	7:09	Bird	*Psittacula alexandri*	1	Heard	Incidental
########	1.407286003	103.754513	0m	7:09	Bird	*Rhipidura javanica*	1	Heard	Incidental
########	1.407286003	103.754513	0m	7:09	Bird	*Phylloscopus borealis*	1	Seen	Incidental
########	1.407286003	103.754513	0m	7:09	Bird	*Todiramphus chloris*	1	Seen	Incidental
########	1.407286003	103.754513	0m	7:09	Bird	*Columba livia*	4	Seen	Incidental
########	1.407286003	103.754513	0m	7:09	Bird	*Acridotheres javanicus*	2	Seen	Incidental
########	1.407005042	103.754437	0m	7:12	Bird	*Zosterops simplex*	1	Heard	Incidental
########	1.407005042	103.754437	0m	7:12	Bird	*Gallus gallus*	2	Seen	Incidental
########	1.407005042	103.754437	0m	7:12	Bird	*Aerodramus sp.*	4	Seen	Incidental
########	1.406884007	103.75474	N.A	7:16	Bird	*Spilopelia chinensis*	1	Heard	Targeted
########	1.406884007	103.75474	N.A	7:16	Bird	*Acridotheres javanicus*	4	Seen	Targeted
########	1.406884007	103.75474	N.A	7:16	Bird	*Columba livia*	4	Seen	Targeted
########	1.406884007	103.75474	N.A	7:16	Mammal	*Callosciurus notatus*	1	Heard	Targeted
########	1.406884007	103.75474	N.A	7:16	Reptile	*Calotes versicolor*	1	Seen	Targeted
########	1.406356031	103.754557	N.A	7:18	Bird	*Corvus splendens*	2	Seen	Targeted
########	1.406356031	103.754557	N.A	7:18	Bird	*Acridotheres javanicus*	2	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.406356031	103.754557	N.A	7:18	Bird	*Eurystomus orientalis*	1	Seen	Targeted
########	1.406356031	103.754557	N.A	7:18	Mammal	*Callosciurus notatus*	1	Seen	Targeted
########	1.406065011	103.754464	N.A	7:20	Bird	*Treron vernans*	1	Seen	Targeted
########	1.406065011	103.754464	N.A	7:20	Bird	*Pycnonotus goiavier*	2	Seen	Targeted
########	1.405868037	103.754398	N.A	7:22	Bird	*Dicaeum cruentatum*	1	Heard	Targeted
########	1.405868037	103.754398	N.A	7:22	Bird	*Eudynamys scolopaceus*	1	Heard	Targeted
########	1.405868037	103.754398	N.A	7:22	Bird	*Dicaeum cruentatum*	1	Heard	Targeted
########	1.405868037	103.754398	N.A	7:22	Bird	*Psittacula alexandri*	3	Seen	Targeted
########	1.405868037	103.754398	N.A	7:22	Bird	*Acridotheres javanicus*	3	Seen	Targeted
########	1.405868037	103.754398	N.A	7:22	Bird	*Amaurornis phoenicurus*	1	Seen	Targeted
########	1.405868037	103.754398	N.A	7:22	Bird	*Psittacula longicauda*	23	Seen	Targeted
########	1.405321034	103.754212	N.A	7:25	Bird	*Picus vittatus*	1	Heard	Targeted
########	1.405321034	103.754212	N.A	7:25	Bird	*Pycnonotus goiavier*	1	Heard	Targeted
########	1.405321034	103.754212	N.A	7:25	Bird	*Corvus macrorhynchos*	1	Seen	Targeted
########	1.405321034	103.754212	N.A	7:25	Bird	*Psittacula krameri*	2	Seen	Targeted
########	1.405321034	103.754212	N.A	7:25	Bird	*Aplonis panayensis*	2	Seen	Targeted
########	1.404623995	103.753993	N.A	7:28	Bird	*Pycnonotus goiavier*	1	Heard	Targeted
########	1.404623995	103.753993	N.A	7:28	Bird	*Pycnonotus goiavier*	2	Seen	Targeted
########	1.404623995	103.753993	N.A	7:28	Bird	*Aerodramus sp.*	10	Seen	Targeted
########	1.404299028	103.753897	N.A	7:30	Bird	*Orthotomus ruficeps*	1	Heard	Targeted
########	1.404299028	103.753897	N.A	7:30	Bird	*Prinia flaviventris*	1	Heard	Targeted
########	1.404299028	103.753897	N.A	7:30	Bird	*Eudynamys scolopaceus*	1	Heard	Targeted
########	1.404176988	103.753844	N.A	7:31	Bird	*Pycnonotus goiavier*	2	Heard	Targeted
########	1.404176988	103.753844	N.A	7:31	Bird	*Amaurornis phoenicurus*	1	Seen	Targeted
########	1.404176988	103.753844	N.A	7:31	Bird	*Gallus gallus*	1	Seen	Targeted
########	1.402967982	103.753441	N.A	7:33	Bird	*Hirundo tahitica*	2	Seen	Targeted
########	1.402967982	103.753441	N.A	7:33	Bird	*Pycnonotus goiavier*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.402967982	103.753441	N.A	7:33	Bird	*Psittacula alexandri*	2	Seen	Targeted
########	1.402967982	103.753441	N.A	7:33	Bird	*Acridotheres javanicus*	3	Seen	Targeted
########	1.402967982	103.753441	N.A	7:33	Bird	*Oriolus chinensis*	1	Seen	Targeted
########	1.402967982	103.753441	N.A	7:33	Bird	*Pycnonotus aurigaster*	1	Seen	Targeted
########	1.402967982	103.753441	N.A	7:33	Bird	*Centropus bengalensis*	2	Seen	Targeted
########	1.402967982	103.753441	N.A	7:33	Bird	*Todiramphus chloris*	1	Seen	Targeted
########	1.402967982	103.753441	N.A	7:33	Bird	*Amaurornis phoenicurus*	1	Seen	Targeted
########	1.403582962	103.753644	N.A	7:34	Bird	*Psittacula alexandri*	1	Heard	Targeted
########	1.403066972	103.753478	N.A	7:35	Bird	*Psittacula alexandri*	1	Seen	Targeted
########	1.403066972	103.753478	N.A	7:35	Bird	*Acridotheres javanicus*	3	Seen	Targeted
########	1.403066972	103.753478	N.A	7:35	Bird	*Ardea sp.*	1	Seen	Targeted
########	1.403236035	103.753535	N.A	7:36	Bird	*Spilopelia chinensis*	1	Heard	Targeted
########	1.403236035	103.753535	N.A	7:36	Bird	*Columba livia*	1	Seen	Targeted
########	1.403236035	103.753535	N.A	7:36	Bird	*Eudynamys scolopaceus*	2	Seen	Targeted
########	1.402392983	103.753267	N.A	7:43	Bird	*Ploceus philippinus*	5	Heard	Targeted
########	1.402392983	103.753267	N.A	7:43	Bird	*Orthotomus sutorius*	1	Heard	Targeted
########	1.402392983	103.753267	N.A	7:43	Bird	*Eurystomus orientalis*	1	Heard	Targeted
########	1.402392983	103.753267	N.A	7:43	Bird	*Prinia flaviventris*	1	Heard	Targeted
########	1.402392983	103.753267	N.A	7:43	Bird	*Eudynamys scolopaceus*	1	Heard	Targeted
########	1.402392983	103.753267	N.A	7:43	Bird	*Pycnonotus goiavier*	1	Heard	Targeted
########	1.402392983	103.753267	N.A	7:43	Bird	*Aplonis panayensis*	3	Heard	Targeted
########	1.402392983	103.753267	N.A	7:43	Bird	*Oriolus chinensis*	3	Heard	Targeted
########	1.402392983	103.753267	N.A	7:43	Bird	*Treron vernans*	1	Seen	Targeted
########	1.402392983	103.753267	N.A	7:43	Bird	*Ducula bicolor*	2	Seen	Targeted
########	1.402392983	103.753267	N.A	7:43	Bird	*Pycnonotus goiavier*	2	Seen	Targeted
########	1.402392983	103.753267	N.A	7:43	Bird	*Spilopelia chinensis*	2	Seen	Targeted
########	1.401686976	103.753013	N.A	7:47	Bird	*Psilopogon lineatus*	1	Heard	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.401686976	103.753013	N.A	7:47	Bird	*Oriolus chinensis*	1	Seen	Targeted
########	1.401686976	103.753013	N.A	7:47	Bird	*Acridotheres javanicus*	3	Seen	Targeted
########	1.401686976	103.753013	N.A	7:47	Bird	*Cinnyris jugularis*	2	Seen	Targeted
########	1.401686976	103.753013	N.A	7:47	Bird	*Treron vernans*	1	Seen	Targeted
########	1.401686976	103.753013	N.A	7:47	Bird	*Aerodramus sp.*	10	Seen	Targeted
########	1.401347006	103.752895	N.A	7:50	Bird	*Orthotomus sutorius*	1	Heard	Targeted
########	1.401347006	103.752895	N.A	7:50	Bird	*Corvus splendens*	1	Seen	Targeted
########	1.401347006	103.752895	N.A	7:50	Bird	*Treron vernans*	2	Seen	Targeted
########	1.401347006	103.752895	N.A	7:50	Bird	*Acridotheres javanicus*	2	Seen	Targeted
########	1.401347006	103.752895	N.A	7:50	Bird	*Pycnonotus goiavier*	1	Seen	Targeted
########	1.401347006	103.752895	N.A	7:50	Bird	*Treron vernans*	2	Seen	Targeted
########	1.401347006	103.752895	N.A	7:50	Bird	*Spilopelia chinensis*	1	Seen	Targeted
########	1.401095968	103.752811	N.A	7:51	Bird	*Eudynamys scolopaceus*	1	Heard	Targeted
########	1.401095968	103.752811	N.A	7:51	Bird	*Amaurornis phoenicurus*	1	Heard	Targeted
########	1.401095968	103.752811	N.A	7:51	Bird	*Corvus splendens*	1	Seen	Targeted
########	1.401095968	103.752811	N.A	7:51	Bird	*Actitis hypoleucos*	1	Seen	Targeted
########	1.401095968	103.752811	N.A	7:51	Bird	*Pycnonotus goiavier*	1	Seen	Targeted
########	1.401095968	103.752811	N.A	7:51	Bird	*Acridotheres javanicus*	5	Seen	Targeted
########	1.401095968	103.752811	N.A	7:51	Bird	*Spilopelia chinensis*	1	Seen	Targeted
########	1.400586013	103.752667	N.A	7:53	Bird	*Prinia flaviventris*	1	Heard	Targeted
########	1.400586013	103.752667	N.A	7:53	Bird	*Geopelia striata*	1	Heard	Targeted
########	1.400586013	103.752667	N.A	7:53	Bird	*Eudynamys scolopaceus*	1	Heard	Targeted
########	1.400586013	103.752667	N.A	7:53	Bird	*Pycnonotus goiavier*	1	Seen	Targeted
########	1.400586013	103.752667	N.A	7:53	Bird	*Oriolus chinensis*	1	Seen	Targeted
########	1.400586013	103.752667	N.A	7:53	Bird	*Spilopelia chinensis*	1	Seen	Targeted
########	1.399975978	103.752558	N.A	7:57	Bird	*Todiramphus chloris*	1	Heard	Targeted
########	1.399975978	103.752558	N.A	7:57	Bird	*Geopelia striata*	1	Heard	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.399975978	103.752558	N.A	7:57	Bird	*Pycnonotus goiavier*	4	Seen	Targeted
########	1.399975978	103.752558	N.A	7:57	Bird	*Egretta garzetta*	1	Seen	Targeted
########	1.399975978	103.752558	N.A	7:57	Bird	*Pycnonotus goiavier*	3	Seen	Targeted
########	1.399975978	103.752558	N.A	7:57	Bird	*Acridotheres javanicus*	3	Seen	Targeted
########	1.399975978	103.752558	N.A	7:57	Bird	*Aplonis panayensis*	5	Seen	Targeted
########	1.399975978	103.752558	N.A	7:57	Bird	*Spilopelia chinensis*	1	Seen	Targeted
########	1.399265025	103.752457	N.A	8:00	Bird	*Orthotomus sericeus*	1	Heard	Targeted
########	1.399265025	103.752457	N.A	8:00	Bird	*Orthotomus sutorius*	1	Heard	Targeted
########	1.399265025	103.752457	N.A	8:00	Bird	*Aegithina tiphia*	1	Heard	Targeted
########	1.399265025	103.752457	N.A	8:00	Bird	*Geopelia striata*	1	Heard	Targeted
########	1.399265025	103.752457	N.A	8:00	Bird	*Halcyon smyrnensis*	1	Heard	Targeted
########	1.399265025	103.752457	N.A	8:00	Bird	*Corvus splendens*	4	Seen	Targeted
########	1.399265025	103.752457	N.A	8:00	Bird	*Psittacula alexandri*	2	Seen	Targeted
########	1.399265025	103.752457	N.A	8:00	Bird	*Loriculus galgulus*	1	Seen	Targeted
########	1.399265025	103.752457	N.A	8:00	Bird	*Eudynamys scolopaceus*	1	Seen	Targeted
########	1.399265025	103.752457	N.A	8:00	Bird	*Treron vernans*	1	Seen	Targeted
########	1.399265025	103.752457	N.A	8:00	Bird	*Acridotheres javanicus*	10	Seen	Targeted
########	1.397897014	103.7525	N.A	8:07	Bird	*Orthotomus ruficeps*	1	Heard	Targeted
########	1.397897014	103.7525	N.A	8:07	Bird	*Phylloscopus borealis*	1	Heard	Targeted
########	1.397897014	103.7525	N.A	8:07	Bird	*Lanius cristatus*	1	Seen	Targeted
########	1.397897014	103.7525	N.A	8:07	Bird	*Acridotheres javanicus*	1	Seen	Targeted
########	1.397266025	103.752609	N.A	8:11	Bird	*Chrysococcyx minutillus*	1	Heard	Targeted
########	1.397266025	103.752609	N.A	8:11	Bird	*Aegithina tiphia*	1	Heard	Targeted
########	1.397266025	103.752609	N.A	8:11	Bird	*Acridotheres javanicus*	1	Seen	Targeted
########	1.397266025	103.752609	N.A	8:11	Bird	*Oriolus chinensis*	1	Seen	Targeted
########	1.397266025	103.752609	N.A	8:11	Bird	*Pycnonotus goiavier*	2	Seen	Targeted
########	1.397266025	103.752609	N.A	8:11	Bird	*Aplonis panayensis*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.396104041	103.752746	N.A	8:15	Bird	*Geopelia striata*	2	Heard	Targeted
########	1.396104041	103.752746	N.A	8:15	Bird	*Orthotomus sutorius*	1	Heard	Targeted
########	1.396104041	103.752746	N.A	8:15	Bird	*Aegithina tiphia*	1	Heard	Targeted
########	1.396104041	103.752746	N.A	8:15	Bird	*Lanius cristatus*	1	Heard	Targeted
########	1.396104041	103.752746	N.A	8:15	Bird	*Lanius cristatus*	1	Seen	Targeted
########	1.396104041	103.752746	N.A	8:15	Bird	*Geopelia striata*	1	Seen	Targeted
########	1.396104041	103.752746	N.A	8:15	Bird	*Spilopelia chinensis*	1	Seen	Targeted
########	1.39478297	103.752928	N.A	8:22	Bird	*Loriculus galgulus*	1	Heard	Targeted
########	1.39478297	103.752928	N.A	8:22	Bird	*Treron vernans*	1	Seen	Targeted
########	1.39478297	103.752928	N.A	8:22	Bird	*Lonchura punctulata*	5	Seen	Targeted
########	1.394047961	103.752859	N.A	8:23	Bird	*Spilopelia chinensis*	1	Seen	Targeted
########	1.393572036	103.752906	N.A	8:25	Reptile	*Calotes versicolor*	1	Seen	Targeted
########	1.392576015	103.753091	N.A	8:27	Bird	*Yungipicus moluccensis*	1	Heard	Targeted
########	1.391887022	103.753253	N.A	8:30	Bird	*Phylloscopus borealis*	1	Heard	Targeted
########	1.391887022	103.753253	N.A	8:30	Bird	*Loriculus galgulus*	1	Heard	Targeted
########	1.391887022	103.753253	N.A	8:30	Bird	*Yungipicus moluccensis*	1	Heard	Targeted
########	1.391887022	103.753253	N.A	8:30	Bird	*Actitis hypoleucos*	1	Seen	Targeted
########	1.391887022	103.753253	N.A	8:30	Reptile	*Naja sumatrana*	1	Seen	Targeted
########	1.391113037	103.753426	N.A	8:33	Bird	*Prinia flaviventris*	1	Heard	Targeted
########	1.391113037	103.753426	N.A	8:33	Bird	*Acridotheres javanicus*	2	Seen	Targeted
########	1.390606016	103.753749	N.A	8:35	Bird	*Dicaeum cruentatum*	1	Heard	Targeted
########	1.390606016	103.753749	N.A	8:35	Bird	*Oriolus chinensis*	1	Heard	Targeted
########	1.390606016	103.753749	N.A	8:35	Bird	*Treron vernans*	5	Seen	Targeted
########	1.390606016	103.753749	N.A	8:35	Reptile	*Calotes versicolor*	1	Seen	Targeted
########	1.390606016	103.753749	N.A	8:35	Reptile	*Calotes versicolor*	1	Seen	Targeted
########	1.398663037	103.752457	N.A	18:03	Bird	*Mixornis gularis*	3	Heard	Targeted
########	1.398663037	103.752457	N.A	18:03	Bird	*Orthotomus sutorius*	1	Heard	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.398663037	103.752457	N.A	18:03	Bird	*Dicaeum cruentatum*	1	Heard	Targeted
########	1.398663037	103.752457	N.A	18:03	Bird	*Aplonis panayensis*	3	Seen	Targeted
########	1.398663037	103.752457	N.A	18:03	Bird	*Spilopelia chinensis*	1	Seen	Targeted
########	1.428108998	103.753616	N.A	6:45	Bird	*Haliaeetus ichthyaetus*	1	Heard	Incidental
########	1.428108998	103.753616	N.A	6:45	Bird	*Pycnonotus zeylanicus*	1	Heard	Incidental
########	1.428108998	103.753616	N.A	6:45	Bird	*Cacomantis sonneratii*	1	Heard	Incidental
########	1.428108998	103.753616	N.A	6:45	Bird	*Caprimulgus affinis*	1	Heard	Incidental
########	1.428108998	103.753616	N.A	6:45	Bird	*Caprimulgus macrurus*	1	Heard	Incidental
########	1.428108998	103.753616	N.A	6:45	Bird	*Micropternus brachyurus*	1	Heard	Incidental
########	1.428108998	103.753616	N.A	6:45	Bird	*Halcyon smyrnensis*	1	Heard	Incidental
########	1.427594014	103.752211	N.A	7:04	Bird	*Aplonis panayensis*	1	Heard	Targeted
########	1.427594014	103.752211	N.A	7:04	Bird	*Rhipidura javanica*	1	Heard	Incidental
########	1.427594014	103.752211	N.A	7:04	Bird	*Oriolus chinensis*	1	Heard	Incidental
########	1.427526036	103.752233	N.A	7:05	Bird	*Pycnonotus zeylanicus*	3	Seen	Targeted
########	1.427374994	103.752243	N.A	7:07	Bird	*Psilopogon lineatus*	1	Heard	Targeted
########	1.427374994	103.752243	N.A	7:07	Bird	*Corvus splendens*	5	Seen	Targeted
########	1.42735404	103.752286	N.A	7:07	Bird	*Todiramphus chloris*	1	Heard	Targeted
########	1.42728799	103.752306	N.A	7:07	Bird	*Aplonis panayensis*	2	Heard	Targeted
########	1.426810976	103.752382	N.A	7:10	Bird	*Rhipidura javanica*	1	Heard	Targeted
########	1.426810976	103.752382	N.A	7:10	Bird	*Acridotheres javanicus*	1	Heard	Targeted
########	1.426810976	103.752382	N.A	7:10	Bird	*Oriolus chinensis*	1	Heard	Targeted
########	1.426810976	103.752382	N.A	7:11	Bird	*Butorides striata*	1	Heard	Targeted
########	1.426701006	103.75239	N.A	7:11	Bird	*Todiramphus chloris*	1	Heard	Targeted
########	1.426626993	103.752422	N.A	7:11	Bird	*Acridotheres javanicus*	1	Heard	Targeted
########	1.426505959	103.752407	N.A	7:14	Bird	*Rhipidura javanica*	1	Heard	Targeted
########	1.426005978	103.752497	N.A	7:21	Bird	*Psittacula alexandri*	1	Heard	Targeted
########	1.426005978	103.752497	N.A	7:21	Bird	*Amaurornis phoenicurus*	1	Heard	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.426005978	103.752497	N.A	7:21	Bird	*Dicaeum cruentatum*	1	Heard	Targeted
########	1.425901037	103.752529	N.A	7:22	Bird	*Acridotheres javanicus*	1	Heard	Targeted
########	1.425871029	103.752526	N.A	7:23	Bird	*Spilopelia chinensis*	1	Seen	Targeted
########	1.425720993	103.752493	N.A	7:24	Bird	*Psilopogon lineatus*	1	Heard	Targeted
########	1.425720993	103.752493	N.A	7:24	Bird	*Acridotheres javanicus*	5	Heard	Targeted
########	1.425600965	103.752639	N.A	7:25	Bird	*Todiramphus chloris*	2	Heard	Targeted
########	1.425600965	103.752639	N.A	7:25	Bird	*Spilopelia chinensis*	2	Heard	Targeted
########	1.425521001	103.752602	N.A	7:25	Bird	*Pycnonotus goiavier*	1	Heard	Targeted
########	1.425493006	103.752596	N.A	7:26	Bird	*Psittacula alexandri*	1	Heard	Targeted
########	1.425493006	103.752596	N.A	7:26	Bird	*Amaurornis phoenicurus*	1	Heard	Targeted
########	1.425493006	103.752596	N.A	7:26	Bird	*Actitis hypoleucos*	1	Seen	Targeted
########	1.425398039	103.752631	N.A	7:28	Bird	*Picus vittatus*	1	Heard	Targeted
########	1.425398039	103.752631	N.A	7:28	Bird	*Eudynamys scolopaceus*	1	Heard	Targeted
########	1.425340036	103.752592	N.A	7:28	Bird	*Psittacula krameri*	1	Heard	Targeted
########	1.425340036	103.752592	N.A	7:28	Bird	*Aplonis panayensis*	5	Heard	Targeted
########	1.425188994	103.752654	N.A	7:30	Bird	*Psittacula alexandri*	2	Heard	Targeted
########	1.425114982	103.752654	N.A	7:32	Bird	*Spilopelia chinensis*	1	Heard	Targeted
########	1.425059997	103.752635	N.A	7:35	Bird	*Oriolus chinensis*	2	Heard	Targeted
########	1.425059997	103.752635	N.A	7:35	Bird	*Treron vernans*	1	Seen	Targeted
########	1.425059997	103.752635	N.A	7:35	Mammal	*Callosciurus notatus*	2	Seen	Targeted
########	1.42499797	103.752656	N.A	7:36	Bird	*Orthotomus sericeus*	1	Heard	Targeted
########	1.42499797	103.752656	N.A	7:36	Bird	*Amaurornis phoenicurus*	1	Heard	Targeted
########	1.42499797	103.752656	N.A	7:36	Bird	*Pericrocotus divaricatus*	3	Heard	Targeted
########	1.42499797	103.752656	N.A	7:36	Bird	*Psittacula krameri*	1	Heard	Targeted
########	1.42499797	103.752656	N.A	7:36	Bird	*Acridotheres javanicus*	5	Heard	Targeted
########	1.42499797	103.752656	N.A	7:36	Bird	*Aplonis panayensis*	1	Seen	Targeted
########	1.424897974	103.752638	N.A	7:40	Bird	*Psittacula alexandri*	2	Heard	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.424885988	103.752749	N.A	7:42	Bird	*Psilopogon lineatus*	1	Heard	Targeted
########	1.424885988	103.752749	N.A	7:42	Bird	*Eudynamys scolopaceus*	1	Heard	Targeted
########	1.424701	103.752791	N.A	7:43	Bird	*Todiramphus chloris*	1	Heard	Targeted
########	1.424582982	103.752723	N.A	7:45	Bird	*Acridotheres javanicus*	5	Heard	Targeted
########	1.424582982	103.752723	N.A	7:45	Bird	*Aplonis panayensis*	5	Heard	Targeted
########	1.424591029	103.752774	N.A	7:46	Bird	*Psilopogon lineatus*	1	Heard	Targeted
########	1.424346026	103.752815	N.A	7:47	Bird	*Psittacula alexandri*	2	Heard	Targeted
########	1.424346026	103.752815	N.A	7:47	Bird	*Psittacula krameri*	2	Seen	Targeted
########	1.424287017	103.752775	N.A	7:49	Bird	*Eudynamys scolopaceus*	1	Heard	Targeted
########	1.424287017	103.752775	N.A	7:49	Bird	*Psilopogon lineatus*	1	Heard	Targeted
########	1.424287017	103.752775	N.A	7:49	Bird	*Pernis ptilorhynchus*	1	Seen	Targeted
########	1.424287017	103.752775	N.A	7:49	Bird	*Psittacula alexandri*	4	Seen	Targeted
########	1.424117032	103.752921	N.A	7:51	Bird	*Spilopelia chinensis*	1	Heard	Targeted
########	1.424117032	103.752921	N.A	7:51	Bird	*Oriolus chinensis*	2	Seen	Targeted
########	1.42373004	103.752857	N.A	7:54	Bird	*Rhipidura javanica*	1	Heard	Targeted
########	1.42373004	103.752857	N.A	7:54	Bird	*Acridotheres javanicus*	2	Seen	Targeted
########	1.42373004	103.752857	N.A	7:54	Bird	*Aplonis panayensis*	4	Seen	Targeted
########	1.42373004	103.752857	N.A	7:55	Bird	*Aplonis panayensis*	5	Heard	Targeted
########	1.423688969	103.752906	N.A	7:55	Bird	*Haliaeetus leucogaster*	1	Heard	Targeted
########	1.423673965	103.752951	N.A	7:55	Bird	*Cinnyris jugularis*	1	Heard	Targeted
########	1.423600959	103.752927	N.A	7:55	Mammal	*Callosciurus notatus*	1	Seen	Targeted
########	1.423390992	103.752895	N.A	7:58	Bird	*Rhipidura javanica*	1	Heard	Targeted
########	1.423390992	103.752895	N.A	7:58	Bird	*Halcyon smyrnensis*	1	Heard	Targeted
########	1.423189994	103.753001	N.A	7:59	Bird	*Psittacula alexandri*	2	Heard	Targeted
########	1.423189994	103.753001	N.A	7:59	Bird	*Nisaetus cirrhatus*	1	Heard	Targeted
########	1.422911966	103.753	N.A	8:02	Bird	*Pycnonotus goiavier*	1	Heard	Targeted
########	1.422863016	103.753007	N.A	8:02	Bird	*Geopelia striata*	1	Heard	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.422660006	103.753016	N.A	8:04	Bird	*Psittacula alexandri*	1	Heard	Targeted
########	1.422660006	103.753016	N.A	8:04	Bird	*Spilopelia chinensis*	1	Heard	Targeted
########	1.422494967	103.753115	N.A	8:06	Bird	*Aegithina tiphia*	1	Heard	Targeted
########	1.422376027	103.753127	N.A	8:07	Bird	*Halcyon smyrnensis*	3	Heard	Targeted
########	1.422376027	103.753127	N.A	8:07	Bird	*Psittacula alexandri*	1	Heard	Targeted
########	1.422376027	103.753127	N.A	8:07	Bird	*Pericrocotus divaricatus*	2	Seen	Targeted
########	1.422376027	103.753127	N.A	8:07	Bird	*Pycnonotus goiavier*	2	Seen	Targeted
########	1.422376027	103.753127	N.A	8:07	Bird	*Psittacula alexandri*	8	Seen	Targeted
########	1.422298998	103.754365	N.A	8:15	Bird	*Pycnonotus zeylanicus*	1	Heard	Targeted
########	1.422298998	103.754365	N.A	8:15	Bird	*Psittacula alexandri*	5	Seen	Targeted
########	1.422298998	103.754365	N.A	8:15	Bird	*Aplonis panayensis*	18	Seen	Targeted
########	1.422234038	103.754391	N.A	8:15	Bird	*Pycnonotus goiavier*	5	Heard	Targeted
########	1.422234038	103.754391	N.A	8:15	Bird	*Pericrocotus divaricatus*	2	Heard	Targeted
########	1.422234038	103.754391	N.A	8:15	Bird	*Treron vernans*	6	Seen	Targeted
########	1.422000015	103.754365	N.A	8:18	Bird	*Oriolus chinensis*	1	Seen	Targeted
########	1.42136802	103.754312	N.A	8:22	Bird	*Psittacula alexandri*	3	Heard	Targeted
########	1.42136802	103.754312	N.A	8:22	Bird	*Gallus gallus*	1	Heard	Targeted
########	1.42136802	103.754312	N.A	8:22	Bird	*Psittacula longicauda*	1	Seen	Targeted
########	1.42136802	103.754312	N.A	8:22	Bird	*Pycnonotus goiavier*	1	Seen	Targeted
########	1.42136802	103.754312	N.A	8:22	Bird	*Psilopogon lineatus*	1	Seen	Targeted
########	1.42136802	103.754312	N.A	8:22	Bird	*Oriolus chinensis*	2	Seen	Targeted
########	1.42121396	103.754323	N.A	8:23	Bird	*Psittacula longicauda*	3	Seen	Targeted
########	1.42121396	103.754323	N.A	8:23	Bird	*Aplonis panayensis*	10	Seen	Targeted
########	1.421004999	103.754263	N.A	8:24	Bird	*Eudynamys scolopaceus*	1	Heard	Targeted
########	1.421004999	103.754263	N.A	8:24	Bird	*Eurystomus orientalis*	1	Seen	Targeted
########	1.420815988	103.754247	N.A	8:26	Bird	*Pernis ptilorhynchus*	2	Seen	Targeted
########	1.420653965	103.754274	N.A	8:27	Bird	*Aegithina tiphia*	2	Heard	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.420653965	103.754274	N.A	8:27	Bird	*Dicaeum cruentatum*	1	Heard	Targeted
########	1.420653965	103.754274	N.A	8:27	Bird	*Acridotheres javanicus*	5	Heard	Targeted
########	1.42056101	103.754291	N.A	8:28	Bird	*Yungipicus moluccensis*	1	Heard	Targeted
########	1.42056101	103.754291	N.A	8:28	Bird	*Orthotomus sericeus*	1	Heard	Targeted
########	1.42056101	103.754291	N.A	8:28	Bird	*Lalage nigra*	1	Seen	Targeted
########	1.420422038	103.754254	N.A	8:29	Bird	*Pycnonotus goiavier*	2	Seen	Targeted
########	1.420422038	103.754254	N.A	8:30	Bird	*Todiramphus chloris*	1	Heard	Targeted
########	1.420422038	103.754254	N.A	8:30	Bird	*Acridotheres javanicus*	2	Seen	Targeted
########	1.42031299	103.754236	N.A	8:31	Bird	*Lanius cristatus*	1	Seen	Targeted
########	1.420017025	103.75425	N.A	8:33	Bird	*Aegithina tiphia*	1	Heard	Targeted
########	1.420017025	103.75425	N.A	8:33	Bird	*Aplonis panayensis*	4	Seen	Targeted
########	1.419905964	103.754208	N.A	8:33	Bird	*Psittacula alexandri*	3	Seen	Targeted
########	1.419905964	103.754208	N.A	8:33	Bird	*Acridotheres javanicus*	2	Seen	Targeted
########	1.419794988	103.754194	N.A	8:34	Bird	*Aegithina tiphia*	2	Heard	Targeted
########	1.419794988	103.754194	N.A	8:34	Bird	*Pycnonotus goiavier*	2	Seen	Targeted
########	1.419794988	103.754194	N.A	8:34	Bird	*Aerodramus sp.*	5	Seen	Targeted
########	1.419666996	103.754195	N.A	8:35	Bird	*Pycnonotus goiavier*	1	Seen	Targeted
########	1.419666996	103.754195	N.A	8:35	Bird	*Corvus macrorhynchos*	1	Seen	Targeted
########	1.419666996	103.754195	N.A	8:35	Bird	*Psittacula alexandri*	3	Seen	Targeted
########	1.419666996	103.754195	N.A	8:35	Bird	*Acridotheres javanicus*	2	Seen	Targeted
########	1.419666996	103.754195	N.A	8:35	Bird	*Corvus splendens*	1	Seen	Targeted
########	1.419524001	103.754151	N.A	8:37	Bird	*Prinia flaviventris*	1	Seen	Targeted
########	1.419268018	103.754152	N.A	8:38	Bird	*Treron vernans*	1	Heard	Targeted
########	1.419268018	103.754152	N.A	8:38	Bird	*Aplonis panayensis*	20	Seen	Targeted
########	1.419268018	103.754152	N.A	8:38	Bird	*Psittacula alexandri*	5	Seen	Targeted
########	1.419048999	103.754138	N.A	8:40	Bird	*Amaurornis phoenicurus*	1	Heard	Targeted
########	1.419048999	103.754138	N.A	8:40	Bird	*Acridotheres javanicus*	10	Heard	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.419048999	103.754138	N.A	8:40	Bird	*Oriolus chinensis*	1	Seen	Targeted
########	1.418713974	103.754141	N.A	8:41	Bird	*Todiramphus chloris*	2	Seen	Targeted
########	1.418614984	103.754118	N.A	8:42	Bird	*Treron vernans*	2	Seen	Targeted
########	1.418614984	103.754118	N.A	8:42	Bird	*Psittacula alexandri*	1	Seen	Targeted
########	1.418482969	103.754101	N.A	8:42	Bird	*Eudynamys scolopaceus*	1	Heard	Targeted
########	1.418482969	103.754101	N.A	8:42	Bird	*Pycnonotus goiavier*	1	Seen	Targeted
########	1.418435024	103.754094	N.A	8:43	Bird	*Oriolus chinensis*	1	Seen	Targeted
########	1.418435024	103.754094	N.A	8:43	Bird	*Loriculus galgulus*	1	Seen	Targeted
########	1.418159008	103.75414	N.A	8:45	Bird	*Spilopelia chinensis*	1	Seen	Targeted
########	1.418018024	103.754183	N.A	8:46	Bird	*Rhipidura javanica*	1	Heard	Targeted
########	1.418018024	103.754183	N.A	8:46	Bird	*Aplonis panayensis*	7	Seen	Targeted
########	1.417737985	103.754193	N.A	8:47	Bird	*Treron vernans*	2	Seen	Targeted
########	1.417453	103.754201	N.A	8:47	Bird	*Eudynamys scolopaceus*	1	Heard	Targeted
########	1.416595029	103.75437	N.A	8:51	Bird	*Acridotheres javanicus*	3	Seen	Targeted
########	1.416280037	103.754426	N.A	8:51	Bird	*Oriolus chinensis*	1	Heard	Targeted
########	1.416280037	103.754426	N.A	8:51	Bird	*Corvus splendens*	1	Seen	Targeted
########	1.41570596	103.754553	N.A	8:55	Bird	*Acridotheres javanicus*	3	Seen	Targeted
########	1.41570596	103.754553	N.A	8:55	Bird	*Aerodramus sp.*	5	Seen	Targeted
########	1.41564603	103.75456	N.A	8:56	Bird	*Cinnyris jugularis*	1	Heard	Targeted
########	1.41564603	103.75456	N.A	8:56	Bird	*Eudynamys scolopaceus*	1	Heard	Targeted
########	1.414684039	103.754731	N.A	8:58	Bird	*Acridotheres javanicus*	1	Heard	Targeted
########	1.414224962	103.7548	N.A	8:59	Bird	*Lalage nigra*	5	Heard	Targeted
########	1.413973002	103.754839	N.A	9:00	Bird	*Rhipidura javanica*	1	Heard	Targeted
########	1.413369002	103.754973	N.A	9:06	Bird	*Psittacula longicauda*	1	Seen	Targeted
########	1.412801966	103.755055	N.A	9:09	Bird	*Geopelia striata*	1	Heard	Targeted
########	1.412801966	103.755055	N.A	9:09	Bird	*Orthotomus sutorius*	1	Heard	Targeted
########	1.412801966	103.755055	N.A	9:09	Bird	*Aplonis panayensis*	2	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
########	1.412801966	103.755055	N.A	9:09	Bird	*Eurystomus orientalis*	2	Seen	Targeted
########	1.412801966	103.755055	N.A	9:09	Reptile	*Calotes versicolor*	1	Seen	Incidental
########	1.411810974	103.755231	N.A	9:12	Bird	*Orthotomus sutorius*	1	Heard	Targeted
########	1.411810974	103.755231	N.A	9:12	Bird	*Corvus splendens*	1	Seen	Targeted
########	1.411481984	103.755311	N.A	9:14	Bird	*Chrysococcyx minutillus*	1	Heard	Targeted
########	1.411481984	103.755311	N.A	9:14	Bird	*Ploceus philippinus*	5	Seen	Targeted
########	1.411481984	103.755311	N.A	9:14	Bird	*Psittacula alexandri*	4	Seen	Targeted
########	1.411481984	103.755311	N.A	9:14	Bird	*Aegithina tiphia*	2	Seen	Targeted
########	1.411366984	103.755329	N.A	9:19	Bird	*Lanius cristatus*	1	Seen	Targeted
########	1.411366984	103.755329	N.A	9:19	Bird	*Acridotheres javanicus*	2	Seen	Targeted
########	1.411272017	103.755323	N.A	9:20	Bird	*Prinia flaviventris*	1	Heard	Targeted
########	1.411272017	103.755323	N.A	9:20	Bird	*Aegithina tiphia*	1	Heard	Targeted
########	1.411272017	103.755323	N.A	9:20	Bird	*Oriolus chinensis*	1	Seen	Targeted
########	1.410717973	103.755412	N.A	9:23	Bird	*Pycnonotus goiavier*	1	Heard	Targeted
########	1.410717973	103.755412	N.A	9:23	Bird	*Pycnonotus goiavier*	2	Seen	Targeted
########	1.410717973	103.755412	N.A	9:23	Bird	*Treron vernans*	2	Seen	Targeted
########	1.410500966	103.755418	N.A	9:23	Bird	*Acridotheres javanicus*	6	Seen	Targeted
12/1/2022	1.43664	103.75239	MF06	9:04	Aculeata	*Chalybion bengalense*	1	Seen	Targeted
12/1/2022	1.43664	103.75239	MF06	9:04	Aculeata	*Eumenes sp.*	1	Seen	Targeted
12/1/2022	1.435830994	103.753213	MF02	9:14	Aculeata	*Apis cerana*	3	Seen	Targeted
12/1/2022	1.435830994	103.753213	N.A	9:14	Aculeata	*Rhynchium haemorrhoidale*	1	Seen	Targeted
12/1/2022	1.435830994	103.753213	N.A	9:14	Odonata	*Urothemis signata*	1	Seen	Targeted
12/1/2022	1.435186006	103.753289	N.A	9:25	Aculeata	*Rhynchium haemorrhoidale*	1	Seen	Targeted
12/1/2022	1.435186006	103.753289	N.A	9:25	Aculeata	*Delta pyriforme*	1	Seen	Targeted
12/1/2022	1.435186006	103.753289	N.A	9:25	Odonata	*Urothemis signata*	4	Seen	Targeted
12/1/2022	1.43444798	103.753055	N.A	9:36	Aculeata	*Megachile laticeps*	1	Seen	Targeted
12/1/2022	1.43444798	103.753055	N.A	9:36	Aculeata	*Parischnogaster nigricans*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
12/1/2022	1.43444798	103.753055	N.A	9:36	Butterfly	*Unidentified Sphingidae*	1	Seen	Incidental
12/1/2022	1.432650983	103.752463	N.A	9:48	Aculeata	*Nomia strigata*	1	Seen	Targeted
12/1/2022	1.432650983	103.752463	N.A	9:48	Odonata	*Orthetrum testaceum*	1	Seen	Targeted
12/1/2022	1.432047989	103.752304	N.A	9:53	Aculeata	*Vespa tropica*	1	Seen	Targeted
12/1/2022	1.431910023	103.752181	N.A	9:57	Odonata	*Tholymis tillarga*	2	Seen	Targeted
12/1/2022	1.431211978	103.752149	N.A	10:02	Butterfly	*Papilio demoleus malayanus*	1	Seen	Targeted
12/1/2022	1.431211978	103.752149	N.A	10:02	Odonata	*Tholymis tillarga*	1	Seen	Targeted
12/1/2022	1.43048401	103.751752	N.A	10:09	Odonata	*Tholymis tillarga*	2	Seen	Targeted
12/1/2022	1.430276977	103.751805	N.A	10:12	Odonata	*Orthetrum glaucum*	1	Seen	Targeted
12/1/2022	1.429564012	103.75196	N.A	10:20	Odonata	*Tholymis tillarga*	1	Seen	Targeted
12/1/2022	1.428568996	103.752049	N.A	10:27	Butterfly	*Danaus chrysippus chrysippus*	1	Seen	Targeted
12/1/2022	1.42683	103.75222	MF05	10:39	Aculeata	*Lasioglossum vagans*	2	Seen	Targeted
12/1/2022	1.42683	103.75222	MF05	10:39	Odonata	*Agrionoptera insignis*	1	Seen	Targeted
12/1/2022	1.426208988	103.752432	N.A	10:50	Aculeata	*Liostenogaster varipicta*	1	Seen	Targeted
12/1/2022	1.426208988	103.752432	N.A	10:50	Aculeata	*Parischnogaster mellyi*	1	Seen	Targeted
12/1/2022	1.426039003	103.752484	MF02	10:52	Odonata	*Tholymis tillarga*	3	Seen	Targeted
12/1/2022	1.425683023	103.752503	MF02	10:55	Odonata	*Neurothemis fluctuans*	1	Seen	Targeted
12/1/2022	1.425683023	103.752503	N.A	10:55	Odonata	*Tholymis tillarga*	2	Seen	Targeted
12/1/2022	1.424087025	103.752876	N.A	11:09	Odonate	*Orthetrum sp.*	1	Seen	Targeted
12/1/2022	1.42222398	103.753142	N.A	11:25	Mammal	*Lutrogale perspicillata*	1	Seen	Targeted
12/1/2022	1.422219034	103.753112	N.A	11:36	Aculeata	*Lasioglossum albescens*	5	Seen	Targeted
13/1/2022	1.40658	103.75417	MF01	N.A	Fish	*Mugilogobius chulae*	1	Caught	Trapping (B)
13/1/2022	1.42196	103.75306	MF04	N.A	Fish	*Butis butis/humeralis*	2	Caught	Trapping (B)
13/1/2022	1.407172009	103.754366	N.A	N.A	Fish	*Toxotes jaculatrix*	1	Seen	Incidental
13/1/2022	1.41266	103.75446	MF02	N.A	Fish	*Stigmatogobius sadanundio*	2	Caught	Trapping (B)
13/1/2022	1.43664	103.75239	MF06	NA	Mollusc	*Nerita articulata*	5	Seen	Incidental
17/1/2022	1.435918249	103.7529073	N.A	19:46:48	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
17/1/2022	1.435904084	103.7528973	N.A	19:47:09	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.435904084	103.7528973	N.A	19:47:18	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.435889499	103.7528873	N.A	19:47:58	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.435900396	103.7528854	N.A	19:48:14	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.435900396	103.7528854	N.A	19:48:19	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.435900396	103.7528854	N.A	19:48:25	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.435895702	103.7528903	N.A	19:48:40	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.435895702	103.7528903	N.A	19:48:40	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
17/1/2022	1.435865862	103.7528479	N.A	19:48:55	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.435888996	103.752889	N.A	19:49	Bird	*Nycticorax nycticorax*	1	Seen	Targeted
17/1/2022	1.435888996	103.752889	N.A	19:49	Mammal	*Muridae sp.*	1	Seen	Targeted
17/1/2022	1.435865862	103.7528479	N.A	19:49:00	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.43586209	103.752833	N.A	19:49:21	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.435893103	103.7528764	N.A	19:49:36	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.435893103	103.7528764	N.A	19:49:51	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.435919842	103.7528993	N.A	19:50:02	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.435919842	103.7528993	N.A	19:50:17	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.435920764	103.7529084	N.A	19:50:29	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.435920764	103.7529084	N.A	19:50:37	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.435911795	103.7531866	N.A	19:52:01	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.435736613	103.7532056	N.A	19:52:42	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.435411982	103.753291	N.A	19:57	Amphibian	*Duttaphrynus melanostictus*	1	Seen	Targeted
17/1/2022	1.435169578	103.7532549	N.A	19:57:15	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.435252978	103.753266	N.A	19:58	Reptile	*Unidentified Gekkonidae*	1	Heard	Targeted
17/1/2022	1.435012333	103.7533027	N.A	19:58:20	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.43496816	103.7532536	N.A	19:58:30	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.434820807	103.7531857	N.A	19:59:20	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
17/1/2022	1.434671022	103.753127	N.A	20:00:37	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.434671022	103.753127	N.A	20:00:37	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
17/1/2022	1.434629448	103.7531817	N.A	20:01:09	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
17/1/2022	1.434576642	103.7531483	N.A	20:01:30	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
17/1/2022	1.43453666	103.7531229	N.A	20:01:53	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
17/1/2022	1.434630034	103.753181	N.A	20:02	Reptile	*Unidentified Gekkonidae*	1	Seen	Targeted
17/1/2022	1.4344976	103.7530805	N.A	20:02:19	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
17/1/2022	1.4344976	103.7530805	N.A	20:02:27	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
17/1/2022	1.434391737	103.7530357	N.A	20:03:42	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.434496008	103.753077	N.A	20:04	Bird	*Caprimulgus macrurus*	1	Seen	Targeted
17/1/2022	1.434421996	103.753037	N.A	20:04	Bird	*Oriolus chinensis*	1	Seen	Targeted
17/1/2022	1.434186045	103.7529678	N.A	20:05:00	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.434183028	103.752966	N.A	20:06	Bird	*Caprimulgus macrurus*	1	Seen	Targeted
17/1/2022	1.433773991	103.7528308	N.A	20:08:21	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.433771979	103.752818	N.A	20:09	Bird	*Halcyon pileata*	1	Heard	Targeted
17/1/2022	1.433637701	103.7527703	N.A	20:09:56	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.432966981	103.752535	N.A	20:14	Reptile	*Unidentified Gekkonidae*	1	Heard	Targeted
17/1/2022	1.432494996	103.752463	N.A	20:18	Bird	*Caprimulgus macrurus*	1	Heard	Targeted
17/1/2022	1.431978	103.752142	N.A	20:25	Bird	*Caprimulgus macrurus*	1	Seen	Targeted
17/1/2022	1.431571981	103.752128	N.A	20:30	Bird	*Amaurornis phoenicurus*	1	Seen	Targeted
17/1/2022	1.431380035	103.751981	N.A	20:32	Reptile	*Calotes versicolor*	1	Seen	Targeted
17/1/2022	1.430768995	103.751745	N.A	20:39	Bird	*Nycticorax nycticorax*	1	Heard	Targeted
17/1/2022	1.43063304	103.751724	N.A	20:40	Amphibian	*Eleutherodactylus planirostris*	2	Seen	Targeted
17/1/2022	1.430316959	103.75169	N.A	20:42	Reptile	*Bronchocela cristatella*	1	Seen	Targeted
17/1/2022	1.429832904	103.7519233	N.A	20:45:56	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.429111389	103.7520279	N.A	20:51:28	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
17/1/2022	1.42908901	103.752016	N.A	20:52	Reptile	*Calotes versicolor*	1	Heard	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
17/1/2022	1.428861022	103.752059	N.A	20:54	Bird	*Butorides striata*	1	Seen	Targeted
17/1/2022	1.428861022	103.752059	N.A	20:54	Butterfly	*Papilio demoleus malayanus*	1	Seen	Incidental
17/1/2022	1.427961979	103.752206	N.A	21:03	Amphibian	*Fejervarya cancrivora*	1	Seen	Targeted
17/1/2022	1.427781014	103.752159	N.A	21:06	Butterfly	*Unidentified Pteropodidae*	1	Seen	Targeted
18/1/2022	1.422459008	103.754379	N.A	9:16	Aculeata	*Nomia strigata*	1	Seen	Targeted
18/1/2022	1.422459008	103.754379	N.A	9:16	Aculeata	*Lipotriches ceratina*	1	Seen	Targeted
18/1/2022	1.422459008	103.754379	N.A	9:16	Butterfly	*Mycalesis mineus macromalayana*	1	Seen	Targeted
18/1/2022	1.422459008	103.754379	N.A	9:16	Butterfly	*Papilio polytes romulus*	1	Seen	Targeted
18/1/2022	1.422459008	103.754379	N.A	9:16	Butterfly	*Euchrysops cnejus cnejus*	1	Seen	Targeted
18/1/2022	1.422459008	103.754379	N.A	9:16	Butterfly	*Neptis hylas papaja*	1	Seen	Targeted
18/1/2022	1.422459008	103.754379	N.A	9:16	Butterfly	*Euchrysops cnejus cnejus*	1	Seen	Targeted
18/1/2022	1.422459008	103.754379	N.A	9:16	Butterfly	*Neptis hylas papaja*	1	Seen	Targeted
18/1/2022	1.422459008	103.754379	N.A	9:16	Butterfly	*Junonia almana javana*	1	Seen	Targeted
18/1/2022	1.422459008	103.754379	N.A	9:16	Butterfly	*Eurema sp.*	2	Seen	Targeted
18/1/2022	1.422459008	103.754379	N.A	9:16	Odonata	*Agriocnemis femina*	1	Seen	Targeted
18/1/2022	1.421918962	103.754316	N.A	9:24	Aculeata	*Parischnogaster nigricans*	1	Seen	Targeted
18/1/2022	1.421918962	103.754316	N.A	9:24	Butterfly	*Hesperiidae*	1	Seen	Targeted
18/1/2022	1.421918962	103.754316	N.A	9:24	Butterfly	*Potanthus omaha omaha*	1	Seen	Targeted
18/1/2022	1.421918962	103.754316	N.A	9:24	Butterfly	*Potanthus omaha omaha*	1	Seen	Targeted
18/1/2022	1.421918962	103.754316	N.A	9:24	Butterfly	*Potanthus omaha omaha*	1	Seen	Targeted
18/1/2022	1.421918962	103.754316	N.A	9:24	Butterfly	*Telicota colon stinga*	1	Seen	Targeted
18/1/2022	1.421918962	103.754316	N.A	9:24	Butterfly	*Potanthus omaha omaha*	1	Seen	Targeted
18/1/2022	1.421918962	103.754316	N.A	9:24	Odonata	*Orthetrum sabina*	1	Seen	Targeted
18/1/2022	1.421918962	103.754316	N.A	9:24	Odonata	*Neurothemis fluctuans*	1	Seen	Targeted
18/1/2022	1.421918962	103.754316	N.A	9:24	Odonata	*Acisoma panorpoides*	1	Seen	Targeted
18/1/2022	1.421298031	103.754279	N.A	9:35	Aculeata	*Trypoxylon sp.*	1	Seen	Targeted
18/1/2022	1.421298031	103.754279	N.A	9:35	Butterfly	*Ampittia dioscorides camertes*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
18/1/2022	1.421298031	103.754279	N.A	9:35	Butterfly	*Euchrysops cnejus cnejus*	1	Seen	Targeted
18/1/2022	1.421298031	103.754279	N.A	9:35	Odonata	*Neurothemis fluctuans*	1	Seen	Targeted
18/1/2022	1.421003994	103.754261	N.A	9:39	Butterfly	*Ampittia dioscorides camertes*	1	Seen	Targeted
18/1/2022	1.421003994	103.754261	N.A	9:39	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
18/1/2022	1.421003994	103.754261	N.A	9:39	Butterfly	*Ampittia dioscorides camertes*	2	Seen	Targeted
18/1/2022	1.421003994	103.754261	N.A	9:39	Odonata	*Onychargia atrocyana*	2	Seen	Targeted
18/1/2022	1.420684978	103.754228	N.A	9:50	Butterfly	*Euchrysops cnejus cnejus*	1	Seen	Targeted
18/1/2022	1.420684978	103.754228	N.A	9:50	Butterfly	*Junonia almana javana*	1	Seen	Targeted
18/1/2022	1.420684978	103.754228	N.A	9:50	Butterfly	*Neptis sp.*	3	Seen	Targeted
18/1/2022	1.420684978	103.754228	N.A	9:50	Odonata	*Neurothemis fluctuans*	2	Seen	Targeted
18/1/2022	1.420684978	103.754228	N.A	9:50	Odonata	*Agriocnemis femina*	3	Seen	Targeted
18/1/2022	1.420684978	103.754228	N.A	9:50	Odonata	*Ischnura senegalensis*	1	Seen	Targeted
18/1/2022	1.420684978	103.754228	N.A	9:50	Odonata	*Ceriagrion cerinorubellum*	3	Seen	Targeted
18/1/2022	1.420708029	103.754214	N.A	9:56	Butterfly	*Ampittia dioscorides camertes*	1	Seen	Targeted
18/1/2022	1.420708029	103.754214	N.A	9:56	Butterfly	*Junonia almana javana*	1	Seen	Targeted
18/1/2022	1.420708029	103.754214	N.A	9:56	Butterfly	*Caltoris cormasa*	4	Seen	Targeted
18/1/2022	1.420708029	103.754214	N.A	9:56	Butterfly	*Euchrysops cnejus cnejus*	3	Seen	Targeted
18/1/2022	1.420708029	103.754214	N.A	9:56	Odonata	*Orthetrum sabina*	1	Seen	Targeted
18/1/2022	1.420708029	103.754214	N.A	9:56	Odonata	*Ceriagrion cerinorubellum*	1	Seen	Targeted
18/1/2022	1.420708029	103.754214	N.A	9:56	Odonata	*Neurothemis fluctuans*	5	Seen	Targeted
18/1/2022	1.420636028	103.754226	N.A	9:59	Aculeata	*Apis cerana*	1	Seen	Targeted
18/1/2022	1.420636028	103.754226	N.A	9:59	Aculeata	*Lipotriches ceratina*	1	Seen	Targeted
18/1/2022	1.420636028	103.754226	N.A	9:59	Butterfly	*Jamides celeno aelianus*	4	Seen	Targeted
18/1/2022	1.420636028	103.754226	N.A	9:59	Butterfly	*Euchrysops cnejus cnejus*	2	Seen	Targeted
18/1/2022	1.420636028	103.754226	N.A	9:59	Butterfly	*Neptis hylas papaja*	2	Seen	Targeted
18/1/2022	1.420636028	103.754226	N.A	9:59	Butterfly	*Potanthus omaha omaha*	2	Seen	Targeted
18/1/2022	1.420636028	103.754226	N.A	9:59	Odonata	*Ceriagrion cerinorubellum*	2	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
18/1/2022	1.420636028	103.754226	N.A	9:59	Odonata	*Brachydiplax chalybea*	1	Seen	Targeted
18/1/2022	1.420636028	103.754226	N.A	9:59	Odonata	*Neurothemis fluctuans*	3	Seen	Targeted
18/1/2022	1.420636028	103.754226	N.A	9:59	Odonata	*Orthetrum testaceum*	1	Seen	Targeted
18/1/2022	1.42022498	103.754195	N.A	10:28	Butterfly	*Jamides celeno aelianus*	1	Seen	Targeted
18/1/2022	1.42022498	103.754195	N.A	10:28	Butterfly	*Eurema sp.*	1	Seen	Targeted
18/1/2022	1.42022498	103.754195	N.A	10:28	Butterfly	*Euchrysops cnejus cnejus*	8	Seen	Targeted
18/1/2022	1.42022498	103.754195	N.A	10:28	Odonata	*Orthetrum chrysis*	3	Seen	Targeted
18/1/2022	1.42022498	103.754195	N.A	10:28	Odonata	*Orthetrum luzonicum*	1	Seen	Targeted
18/1/2022	1.42022498	103.754195	N.A	10:28	Odonata	*Neurothemis fluctuans*	1	Seen	Targeted
18/1/2022	1.42022498	103.754195	N.A	10:28	Odonata	*Crocothemis servilia*	1	Seen	Targeted
18/1/2022	1.419838993	103.754163	N.A	10:34	Butterfly	*Acraea terpsicore*	1	Seen	Targeted
18/1/2022	1.419776967	103.754161	N.A	10:34	Butterfly	*Neptis hylas papaja*	1	Seen	Targeted
18/1/2022	1.419776967	103.754161	N.A	10:34	Butterfly	*Acraea terpsicore*	1	Seen	Targeted
18/1/2022	1.419838993	103.754163	N.A	10:34	Odonata	*Neurothemis fluctuans*	1	Seen	Targeted
18/1/2022	1.419776967	103.754161	N.A	10:34	Odonata	*Orthetrum sabina*	1	Seen	Targeted
18/1/2022	1.419776967	103.754161	N.A	10:34	Odonata	*Neurothemis fluctuans*	1	Seen	Targeted
18/1/2022	1.41266	103.75446	MF02	10:39	Fish	*Dermogenys collettei*	2	Seen	Incidental
18/1/2022	1.418992002	103.754108	N.A	10:40	Butterfly	*Acraea terpsicore*	1	Seen	Targeted
18/1/2022	1.418992002	103.754108	N.A	10:40	Butterfly	*Eurema sp.*	1	Seen	Targeted
18/1/2022	1.418992002	103.754108	N.A	10:40	Butterfly	*Potanthus omaha omaha*	2	Seen	Targeted
18/1/2022	1.41875999	103.754069	N.A	10:42	Aculeata	*Apis cerana*	2	Seen	Targeted
18/1/2022	1.41875999	103.754069	N.A	10:42	Butterfly	*Junonia almana javana*	1	Seen	Targeted
18/1/2022	1.41875999	103.754069	N.A	10:42	Butterfly	*Jamides celeno aelianus*	3	Seen	Targeted
18/1/2022	1.41875999	103.754069	N.A	10:42	Butterfly	*Euchrysops cnejus cnejus*	3	Seen	Targeted
18/1/2022	1.416973975	103.754261	N.A	10:47	Aculeata	*Vespa tropica*	1	Seen	Targeted
18/1/2022	1.416973975	103.754261	N.A	10:47	Aculeata	*Ceratina nigrolateralis*	1	Seen	Targeted
18/1/2022	1.417446965	103.754162	N.A	10:47	Butterfly	*Iambrix salsala salsala*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
18/1/2022	1.416973975	103.754261	N.A	10:47	Butterfly	*Appias libythea olferna*	1	Seen	Targeted
18/1/2022	1.416973975	103.754261	N.A	10:47	Butterfly	*Eurema sp.*	1	Seen	Targeted
18/1/2022	1.416973975	103.754261	N.A	10:47	Odonata	*Aethriamanta gracilis*	1	Seen	Targeted
18/1/2022	1.416973975	103.754261	N.A	10:47	Odonata	*Neurothemis fluctuans*	1	Seen	Targeted
18/1/2022	1.416973975	103.754261	N.A	10:47	Odonata	*Orthetrum testaceum*	1	Seen	Targeted
18/1/2022	1.416973975	103.754261	N.A	10:47	Odonata	*Pantala flavescens*	1	Seen	Targeted
18/1/2022	1.417446965	103.754162	N.A	10:58	Aculeata	*Ropalidia stigma*	1	Seen	Targeted
18/1/2022	1.417446965	103.754162	N.A	10:58	Bird	*Pernis ptilorhynchus*	2	Seen	Incidental
18/1/2022	1.417446965	103.754162	N.A	10:58	Butterfly	*Junonia atlites atlites*	2	Seen	Targeted
18/1/2022	1.417446965	103.754162	N.A	10:58	Odonata	*Neurothemis fluctuans*	1	Seen	Targeted
18/1/2022	1.417446965	103.754162	N.A	10:58	Odonata	*Pantala flavescens*	3	Seen	Targeted
18/1/2022	1.417446965	103.754162	N.A	10:58	Odonata	*Rhyothemis phyllis*	1	Seen	Targeted
18/1/2022	1.416973975	103.754261	N.A	11:05	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
18/1/2022	1.416435018	103.75435	N.A	11:08	Aculeata	*Stenodyneriellus sp.*	1	Seen	Targeted
18/1/2022	1.416435018	103.75435	N.A	11:08	Aculeata	*Eumenes sp.3*	1	Seen	Targeted
18/1/2022	1.416435018	103.75435	N.A	11:08	Butterfly	*Potanthus trachala tytleri*	1	Seen	Targeted
18/1/2022	1.416435018	103.75435	N.A	11:08	Butterfly	*Eurema sp.*	2	Seen	Targeted
18/1/2022	1.416435018	103.75435	N.A	11:08	Odonata	*Orthetrum chrysis*	1	Seen	Targeted
18/1/2022	1.416435018	103.75435	N.A	11:08	Odonata	*Orthetrum testaceum*	1	Seen	Targeted
18/1/2022	1.416435018	103.75435	N.A	11:08	Odonata	*Crocothemis servilia*	2	Seen	Targeted
18/1/2022	1.415335983	103.75457	N.A	11:21	Aculeata	*Apis cerana*	3	Seen	Targeted
18/1/2022	1.415335983	103.75457	N.A	11:21	Butterfly	*Appias libythea olferna*	1	Seen	Targeted
18/1/2022	1.415335983	103.75457	N.A	11:21	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
18/1/2022	1.414838014	103.754646	N.A	11:24	Aculeata	*Lipotriches ceratina*	1	Seen	Targeted
18/1/2022	1.414838014	103.754646	N.A	11:24	Butterfly	*Catopsilia pyranthe pyranthe*	1	Seen	Targeted
18/1/2022	1.414838014	103.754646	N.A	11:24	Butterfly	*Telicota colon stinga*	1	Seen	Targeted
18/1/2022	1.414838014	103.754646	N.A	11:24	Butterfly	*Junonia hedonia ida*	2	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
18/1/2022	1.414525034	103.754713	N.A	11:26	Butterfly	*Eurema blanda snelleni*	1	Seen	Targeted
18/1/2022	1.414525034	103.754713	N.A	11:26	Butterfly	*Unidentified Nymphalidae*	1	Seen	Targeted
18/1/2022	1.414062018	103.75479	N.A	11:31	Butterfly	*Hypolimnas anomala anomala*	1	Seen	Targeted
18/1/2022	1.414062018	103.75479	N.A	11:31	Butterfly	*Polyura hebe plautus*	1	Seen	Targeted
18/1/2022	1.414062018	103.75479	N.A	11:31	Butterfly	*Zizula hylax pygmaea*	1	Seen	Targeted
18/1/2022	1.414062018	103.75479	N.A	11:31	Butterfly	*Eurema sp.*	5	Seen	Targeted
18/1/2022	1.414062018	103.75479	N.A	11:31	Odonata	*Rhyothemis phyllis*	1	Seen	Targeted
18/1/2022	1.414062018	103.75479	N.A	11:31	Odonata	*Orthetrum testaceum*	2	Seen	Targeted
18/1/2022	1.413327008	103.754968	N.A	11:44	Butterfly	*Borbo cinnara*	1	Seen	Targeted
18/1/2022	1.413327008	103.754968	N.A	11:44	Butterfly	*Arhopala centaurus nakula*	1	Seen	Targeted
18/1/2022	1.413327008	103.754968	N.A	11:44	Butterfly	*Zizina otis lampa*	1	Seen	Targeted
18/1/2022	1.413327008	103.754968	N.A	11:44	Butterfly	*Potanthus omaha omaha*	2	Seen	Targeted
18/1/2022	1.413327008	103.754968	N.A	11:44	Butterfly	*Junonia hedonia ida*	2	Seen	Targeted
18/1/2022	1.41266	103.75446	MF02	11:47	Aculeata	*Vespa affinis*	1	Seen	Targeted
18/1/2022	1.41266	103.75446	MF02	11:47	Butterfly	*Unidentified Nymphalidae*	1	Seen	Targeted
18/1/2022	1.41266	103.75446	MF02	11:47	Odonata	*Crocothemis servilia*	4	Seen	Targeted
18/1/2022	1.41266	103.75446	MF02	11:47	Odonata	*Pseudothemis jorina*	1	Seen	Targeted
18/1/2022	1.41266	103.75446	MF02	11:47	Reptile	*Trachemys scripta*	1	Seen	Targeted
18/1/2022	1.412513042	103.755107	N.A	11:59	Butterfly	*Eurema sp.*	1	Seen	Incidental
18/1/2022	1.412513042	103.755107	N.A	11:59	Butterfly	*Junonia almana javana*	2	Seen	Targeted
18/1/2022	1.412513042	103.755107	N.A	11:59	Odonata	*Crocothemis servilia*	5	Seen	Targeted
18/1/2022	1.412513042	103.755107	N.A	11:59	Odonata	*Neurothemis fluctuans*	2	Seen	Targeted
18/1/2022	1.411855984	103.75522	N.A	12:03	Butterfly	*Eurema sp.*	1	Seen	Targeted
18/1/2022	1.411855984	103.75522	N.A	12:03	Odonata	*Neurothemis fluctuans*	8	Seen	Targeted
18/1/2022	1.411855984	103.75522	N.A	12:03	Odonata	*Orthetrum sabina*	1	Seen	Targeted
18/1/2022	1.411855984	103.75522	N.A	12:03	Odonata	*Acisoma panorpoides*	3	Seen	Targeted
18/1/2022	1.411855984	103.75522	N.A	12:03	Odonata	*Orthetrum testaceum*	10	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
18/1/2022	1.411855984	103.75522	N.A	12:03	Odonata	*Brachydiplax chalybea*	15	Seen	Targeted
18/1/2022	1.411855984	103.75522	N.A	12:03	Odonata	*Ischnura senegalensis*	1	Seen	Targeted
18/1/2022	1.411546022	103.755275	N.A	12:07	Butterfly	*Prosotas dubiosa lumpura*	1	Seen	Targeted
18/1/2022	1.411546022	103.755275	N.A	12:07	Butterfly	*Junonia almana javana*	1	Seen	Targeted
18/1/2022	1.411546022	103.755275	N.A	12:07	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
18/1/2022	1.411546022	103.755275	N.A	12:07	Odonata	*Neurothemis fluctuans*	3	Seen	Targeted
18/1/2022	1.411546022	103.755275	N.A	12:07	Odonata	*Brachydiplax chalybea*	5	Seen	Targeted
18/1/2022	1.411087029	103.75536	N.A	12:10	Butterfly	*Junonia atlites atlites*	1	Seen	Targeted
18/1/2022	1.411087029	103.75536	N.A	12:10	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
18/1/2022	1.411087029	103.75536	N.A	12:10	Butterfly	*Eurema sp.*	1	Seen	Targeted
18/1/2022	1.411087029	103.75536	N.A	12:10	Butterfly	*Junonia almana javana*	2	Seen	Targeted
18/1/2022	1.410720991	103.755385	N.A	12:12	Butterfly	*Eurema sp.*	3	Seen	Targeted
18/1/2022	1.410720991	103.755385	N.A	12:12	Butterfly	*Acraea terpsicore*	2	Seen	Targeted
18/1/2022	1.410720991	103.755385	N.A	12:12	Odonata	*Pantala flavescens*	1	Seen	Targeted
18/1/2022	1.408464	103.755176	N.A	12:17	Aculeata	*Delta pyriforme*	1	Seen	Targeted
18/1/2022	1.407873994	103.755043	N.A	12:19	Butterfly	*Junonia almana javana*	1	Seen	Targeted
18/1/2022	1.407873994	103.755043	N.A	12:19	Butterfly	*Appias libythea olferna*	1	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:44	Bird	*Todiramphus chloris*	1	Heard	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:44	Bird	*Pycnonotus goiavier*	2	Heard	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:44	Bird	*Lanius cristatus*	1	Heard	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:44	Bird	*Actitis hypoleucos*	1	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:44	Bird	*Todiramphus chloris*	2	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:44	Bird	*Butorides striata*	1	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:44	Bird	*Amaurornis phoenicurus*	1	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:44	Bird	*Corvus splendens*	4	Seen	Targeted
18/1/2022	1.42220797	103.753127	9m	16:44	Mammal	*Lutrogale perspicillata*	N.A	Seen	Incidental
18/1/2022	1.426830003	103.752228	MF05	16:50	Decapod	*Paracleistostoma depressum*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
18/1/2022	1.426830003	103.752228	MF05	16:50	Decapod	*Paracleistostoma sp.*	1	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:50	Decapod	*Metaplax elegans*	1	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:50	Decapod	*Paracleistostoma sp.*	1	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:50	Decapod	*Perisesarma eumolpe*	1	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:50	Decapod	*Baruna trigranulum*	1	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:50	Decapod	*cf. Ilyogynnis microcheirum*	1	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:50	Decapod	*cf. Sarmatium germaini*	2	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:50	Fish	*Pseudogobius javanicus*	1	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:50	Mollusc	*Chicoreus capucinus*	5	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:50	Mollusc	*Chicoreus capucinus*	1	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:50	Mollusc	*Diplodonta sp.*	2	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:50	Mollusc	*Geloina expansa*	38	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:50	Mollusc	*Glauconome sp.*	5	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:50	Mollusc	*Mytella strigata*	6	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:50	Mollusc	*Chicoreus capucinus*	1	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:50	Mollusc	*Exolaternula spengleri*	1		Targeted
18/1/2022	1.426830003	103.752228	MF05	16:50	Mollusc	*Geloina coaxans*	39	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:50	Mollusc	*Glauconome sp.*	1	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:50	Mollusc	*Mytella strigata*	1	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:50	Mollusc	*Mytella strigata*	1		Targeted
18/1/2022	1.426830003	103.752228	MF05	16:50	Mollusc	*Neotrapezium sublaevigatum*	1	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:50	Mollusc	*Nerita balteata*	2	Seen	Incidental
18/1/2022	1.426830003	103.752228	MF05	16:50	Mollusc	*Tegillarca granosa*	1	Seen	Incidental
18/1/2022	1.426830003	103.752228	MF05	16:50	Mollusc	*Optediceros breviculum*	1	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:50	Mollusc	*Chicoreus capucinus*	18	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:50	Mollusc	*Geloina expansa*	71	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:50	Mollusc	*Glauconome sp.*	2	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
18/1/2022	1.426830003	103.752228	MF05	16:50	Mollusc	*Neotrapezium sublaevigatum*	1	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:50	Platyhelminthes	*Neanthes glandicincta (cf. Ceratonere*	4	Seen	Targeted
18/1/2022	1.426830003	103.752228	MF05	16:50	Platyhelminthes	*Neanthes glandicincta (cf. Ceratonere*	5	Seen	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:10	Bird	*Psittacula krameri*	1	Heard	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:10	Bird	*Lalage nigra*	1	Heard	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:10	Bird	*Acridotheres javanicus*	2	Heard	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:10	Bird	*Pycnonotus goiavier*	2	Heard	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:10	Bird	*Psittacula alexandri*	2	Heard	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:10	Bird	*Todiramphus chloris*	1	Seen	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:10	Bird	*Treron vernans*	2	Seen	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:10	Bird	*Treron vernans*	8	Seen	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:10	Bird	*Psittacula alexandri*	6	Seen	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:10	Bird	*Aerodramus sp.*	14	Seen	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:15	Mollusc	*Gari sp.*	1	Seen	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:15	Mollusc	*Geloina coaxans*	1	Seen	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:15	Mollusc	*Melanoides tuberculata*	1	Seen	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:15	Mollusc	*Mytilopsis adamsi*	2	Seen	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:15	Mollusc	*Sermyla riqueti*	3	Seen	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:15	Mollusc	*Melanoides tuberculata*	1	Seen	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:15	Mollusc	*Mytilopsis adamsi*	2	Seen	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:15	Mollusc	*Neritina cornucopia*	1	Seen	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:15	Mollusc	*Sermyla riqueti*	2	Seen	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:15	Mollusc	*Chicoreus capucinus*	1	Seen	Incidental
18/1/2022	1.421961039	103.753068	MF04	18:15	Mollusc	*Tegillarca sp.*	1	Seen	Incidental
18/1/2022	1.421961039	103.753068	MF04	18:15	Mollusc	*Telescopium telescopium*	1	Seen	Incidental
18/1/2022	1.421961039	103.753068	MF04	18:15	Mollusc	*Gari sp.*	1	Seen	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:15	Mollusc	*Geloina coaxans*	6	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
18/1/2022	1.421961039	103.753068	MF04	18:15	Mollusc	*Geloina expansa*	2	Seen	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:15	Mollusc	*Glauconome sp.*	1	Seen	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:15	Mollusc	*Melanoides tuberculata*	4	Seen	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:15	Mollusc	*Mytilopsis adamsi*	6	Seen	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:15	Mollusc	*Sermyla riqueti*	2	Seen	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:15	Mollusc	*Tarebia granifera*	2	Seen	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:15	Polychaete	*Polychaeta*	1	Seen	Targeted
18/1/2022	1.421961039	103.753068	MF04	18:25	Bird	*Gracula religiosa*	1	Heard	Incidental
18/1/2022	1.40658	103.75417	MF01	N.A	Bird	*Actitis hypoleucos*	1	Seen	Targeted
18/1/2022	1.40658	103.75417	MF01	N.A	Bird	*Amaurornis phoenicurus*	1	Seen	Targeted
18/1/2022	1.40658	103.75417	MF01	N.A	Bird	*Todiramphus chloris*	2	Seen	Targeted
18/1/2022	1.40658	103.75417	MF01	N.A	Bird	*Gallus gallus*	1	Seen	Targeted
18/1/2022	1.436643032	103.752394	MF06	N.A	Bird	*Ardea alba*	1	Seen	Targeted
18/1/2022	1.436643032	103.752394	MF06	N.A	Bird	*Todiramphus chloris*	1	Seen	Targeted
18/1/2022	1.436643032	103.752394	MF06	N.A	Bird	*Actitis hypoleucos*	1	Seen	Targeted
18/1/2022	1.436643032	103.752394	MF06	N.A	Bird	*Ardea cinerea*	1	Seen	Targeted
18/1/2022	1.436643032	103.752394	MF06	N.A	Decapod	*Ilyoplax sp.*	1	Seen	Targeted
18/1/2022	1.40658	103.75417	MF01	NA	Mollusc	*Faunus ater*	6	Seen	Targeted
18/1/2022	1.40658	103.75417	MF01	NA	Mollusc	*Faunus ater*	25	Seen	Targeted
18/1/2022	1.40658	103.75417	MF01	NA	Mollusc	*Geloina expansa*	1	Seen	Targeted
18/1/2022	1.40658	103.75417	MF01	NA	Mollusc	*Tarebia granifera*	13	Seen	Targeted
18/1/2022	1.40658	103.75417	MF01	NA	Mollusc	*Physa acuta*	4	Seen	Targeted
18/1/2022	1.40658	103.75417	MF01	NA	Mollusc	*Sermyla riqueti*	1	Seen	Targeted
18/1/2022	1.40658	103.75417	MF01	NA	Mollusc	*Tarebia granifera*	24	Seen	Targeted
18/1/2022	1.40658	103.75417	MF01	NA	Mollusc	*Faunus ater*	19	Seen	Targeted
18/1/2022	1.40658	103.75417	MF01	NA	Mollusc	*Mytilidae*	1	Seen	Targeted
18/1/2022	1.40658	103.75417	MF01	NA	Mollusc	*Physa acuta*	2	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
18/1/2022	1.40658	103.75417	MF01	NA	Mollusc	*Sermyla riqueti*	1	Seen	Targeted
18/1/2022	1.40658	103.75417	MF01	NA	Mollusc	*Tarebia granifera*	tmtc	Seen	Targeted
18/1/2022	1.436643032	103.752394	MF06	NA	Mollusc	*Chicoreus capucinus*	4	Seen	Targeted
18/1/2022	1.436643032	103.752394	MF06	NA	Mollusc	*Geloina expansa*	1	Seen	Targeted
18/1/2022	1.436643032	103.752394	MF06	NA	Mollusc	*Glauconome sp.*	2	Seen	Targeted
18/1/2022	1.436643032	103.752394	MF06	NA	Mollusc	*Indothais grandata*	1	Seen	Targeted
18/1/2022	1.436643032	103.752394	MF06	NA	Mollusc	*Mytilidae*	2	Seen	Targeted
18/1/2022	1.436643032	103.752394	MF06	NA	Mollusc	*Xenostrobus sp.*	15	Seen	Targeted
18/1/2022	1.436643032	103.752394	MF06	NA	Mollusc	*Chicoreus capucinus*	2	Seen	Targeted
18/1/2022	1.436643032	103.752394	MF06	NA	Mollusc	*Glauconome sp.*	4	Seen	Targeted
18/1/2022	1.436643032	103.752394	MF06	NA	Mollusc	*Xenostrobus sp.*	22	Seen	Targeted
18/1/2022	1.436643032	103.752394	MF06	NA	Mollusc	*Chicoreus capucinus*	5	Seen	Targeted
18/1/2022	1.436643032	103.752394	MF06	NA	Mollusc	*Exolaternula spengleri*	3	Seen	Targeted
18/1/2022	1.436643032	103.752394	MF06	NA	Mollusc	*Glauconome sp.*	2	Seen	Targeted
18/1/2022	1.436643032	103.752394	MF06	NA	Mollusc	*Xenostrobus sp.*	4	Seen	Targeted
18/1/2022	1.436643032	103.752394	MF06	NA	Mollusc	*Littoraria angulifera*	1	Seen	Incidental
18/1/2022	1.421961039	103.753068	MF04	NA	Platyhelminthes	*Meixneria furva*	1	Seen	Incidental
18/1/2022	1.40658	103.75417	MF01	NA	Polychaete	*Polychaeta*	4	Seen	Targeted
18/1/2022	1.40658	103.75417	MF01	NA	Polychaete	*Polychaeta*	3	Seen	Targeted
18/1/2022	1.436643032	103.752394	MF06	NA	Polychaete	*Polychaeta*	4	Seen	Targeted
18/1/2022	1.436643032	103.752394	MF06	NA	Polychaete	*Polychaeta*	7	Seen	Targeted
18/1/2022	1.436643032	103.752394	MF06	NA	Polychaete	*Polychaeta*	1	Seen	Targeted
20/1/2022	1.43664	103.75239	MF06	9:07	Butterfly	*Unidentified Nymphalidae*	1	Seen	Targeted
20/1/2022	1.435740972	103.753164	N.A	9:14	Butterfly	*Potanthus omaha omaha*	1	Seen	Targeted
20/1/2022	1.435740972	103.753164	N.A	9:14	Butterfly	*Acraea terpsicore*	1	Seen	Targeted
20/1/2022	1.435740972	103.753164	N.A	9:14	Butterfly	*Eurema sp.*	2	Seen	Targeted
20/1/2022	1.435246021	103.753292	N.A	9:19	Butterfly	*Junonia atlites atlites*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
20/1/2022	1.435246021	103.753292	N.A	9:19	Butterfly	*Zizina otis lampa*	1	Seen	Targeted
20/1/2022	1.435246021	103.753292	N.A	9:19	Butterfly	*Junonia almana javana*	1	Seen	Targeted
20/1/2022	1.435246021	103.753292	N.A	9:19	Butterfly	*Potanthus omaha omaha*	1	Seen	Targeted
20/1/2022	1.434859028	103.753198	N.A	9:24	Butterfly	*Iambrix salsala salsala*	1	Seen	Targeted
20/1/2022	1.434859028	103.753198	N.A	9:24	Butterfly	*Polytremis lubricans lubricans*	1	Seen	Targeted
20/1/2022	1.434859028	103.753198	N.A	9:24	Butterfly	*Unidentified Nymphalidae*	1	Seen	Targeted
20/1/2022	1.434859028	103.753198	N.A	9:24	Butterfly	*Unidentified Nymphalidae*	1	Seen	Targeted
20/1/2022	1.434859028	103.753198	N.A	9:24	Butterfly	*Prosotas dubiosa lumpura*	4	Seen	Targeted
20/1/2022	1.434517968	103.75315	N.A	9:35	Butterfly	*Pelopidas mathias mathias*	1	Seen	Targeted
20/1/2022	1.434517968	103.75315	N.A	9:35	Butterfly	*Appias libythea olferna*	2	Seen	Targeted
20/1/2022	1.434517968	103.75315	N.A	9:35	Butterfly	*Delias hyparete metarete*	1	Seen	Targeted
20/1/2022	1.434517968	103.75315	N.A	9:35	Butterfly	*Potanthus omaha omaha*	1	Seen	Targeted
20/1/2022	1.434517968	103.75315	N.A	9:35	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
20/1/2022	1.434517968	103.75315	N.A	9:35	Butterfly	*Prosotas dubiosa lumpura*	30	Seen	Targeted
20/1/2022	1.434517968	103.75315	N.A	9:35	Butterfly	*Unidentified swift*	1	Seen	Targeted
20/1/2022	1.434517968	103.75315	N.A	9:35	Butterfly	*Iambrix salsala salsala*	2	Seen	Targeted
20/1/2022	1.434214041	103.752954	N.A	9:40	Butterfly	*Mycalesis mineus macromalayana*	1	Seen	Targeted
20/1/2022	1.434214041	103.752954	N.A	9:40	Butterfly	*Phaedyma columella singa*	1	Seen	Targeted
20/1/2022	1.434214041	103.752954	N.A	9:40	Butterfly	*Eurema sp.*	1	Seen	Targeted
20/1/2022	1.434214041	103.752954	N.A	9:40	Butterfly	*Iambrix salsala salsala*	2	Seen	Targeted
20/1/2022	1.433521025	103.752741	N.A	9:45	Butterfly	*Mycalesis mineus macromalayana*	1	Seen	Targeted
20/1/2022	1.433137972	103.7526	N.A	9:48	Butterfly	*Appias libythea olferna*	1	Seen	Targeted
20/1/2022	1.432611002	103.752425	N.A	9:48	Butterfly	*Mycalesis mineus macromalayana*	1	Seen	Targeted
20/1/2022	1.432611002	103.752425	N.A	9:48	Butterfly	*Eurema sp.*	1	Seen	Targeted
20/1/2022	1.432611002	103.752425	N.A	9:48	Butterfly	*Mycalesis mineus macromalayana*	2	Seen	Targeted
20/1/2022	1.432140023	103.752168	N.A	9:57	Butterfly	*Mycalesis mineus macromalayana*	1	Seen	Targeted
20/1/2022	1.432140023	103.752168	N.A	9:57	Butterfly	*Mycalesis mineus macromalayana*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
20/1/2022	1.432140023	103.752168	N.A	9:57	Butterfly	*Eurema sp.*	1	Seen	Targeted
20/1/2022	1.432140023	103.752168	N.A	9:57	Butterfly	*Junonia almana javana*	2	Seen	Targeted
20/1/2022	1.430842001	103.751869	N.A	10:08	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
20/1/2022	1.430842001	103.751869	N.A	10:08	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
20/1/2022	1.430429025	103.751679	N.A	10:11	Butterfly	*Orsotriaena medus cinerea*	1	Seen	Targeted
20/1/2022	1.430429025	103.751679	N.A	10:11	Butterfly	*Eurema sp.*	1	Seen	Targeted
20/1/2022	1.430429025	103.751679	N.A	10:11	Butterfly	*Papilio demoleus malayanus*	2	Seen	Targeted
20/1/2022	1.430429025	103.751679	N.A	10:11	Butterfly	*Elymnias hypermnestra agina*	2	Seen	Targeted
20/1/2022	1.430429025	103.751679	N.A	10:11	Odonata	*Orthetrum testaceum*	1	Seen	Targeted
20/1/2022	1.429497041	103.751931	N.A	10:17	Butterfly	*Iambrix salsala salsala*	1	Seen	Targeted
20/1/2022	1.429497041	103.751931	N.A	10:17	Butterfly	*Mycalesis perseoides perseoides*	1	Seen	Targeted
20/1/2022	1.429497041	103.751931	N.A	10:17	Butterfly	*Papilio demoleus malayanus*	1	Seen	Targeted
20/1/2022	1.429497041	103.751931	N.A	10:17	Butterfly	*Neptis hylas papaja*	1	Seen	Targeted
20/1/2022	1.429497041	103.751931	N.A	10:17	Butterfly	*Unidentified Nymphalidae*	1	Seen	Targeted
20/1/2022	1.429497041	103.751931	N.A	10:17	Butterfly	*Neptis hylas papaja*	2	Seen	Targeted
20/1/2022	1.429497041	103.751931	N.A	10:17	Butterfly	*Eurema sp.*	2	Seen	Targeted
20/1/2022	1.428846018	103.752026	N.A	10:24	Butterfly	*Eurema hecabe contubernalis*	1	Seen	Targeted
20/1/2022	1.428846018	103.752026	N.A	10:24	Butterfly	*Eurema sp.*	2	Seen	Targeted
20/1/2022	1.427747989	103.752172	N.A	10:32	Butterfly	*Mycalesis perseus cepheus*	1	Seen	Targeted
20/1/2022	1.427747989	103.752172	N.A	10:32	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
20/1/2022	1.427747989	103.752172	N.A	10:32	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
20/1/2022	1.427327972	103.752266	N.A	10:35	Butterfly	*Junonia atlites atlites*	1	Seen	Targeted
20/1/2022	1.427327972	103.752266	N.A	10:35	Butterfly	*Suastus gremius gremius*	1	Seen	Targeted
20/1/2022	1.427327972	103.752266	N.A	10:35	Butterfly	*Junonia almana javana*	1	Seen	Targeted
20/1/2022	1.427327972	103.752266	N.A	10:35	Butterfly	*Eurema sp.*	1	Seen	Targeted
20/1/2022	1.427327972	103.752266	N.A	10:35	Butterfly	*Unidentified Nymphalidae*	1	Seen	Targeted
20/1/2022	1.427327972	103.752266	N.A	10:35	Butterfly	*Junonia hedonia ida*	2	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
20/1/2022	1.42683	103.75222	MF05	10:39	Butterfly	*Eurema sp.*	1	Seen	Targeted
20/1/2022	1.425067959	103.752672	N.A	10:39	Butterfly	*Iambrix salsala salsala*	1	Seen	Targeted
20/1/2022	1.42683	103.75222	MF05	10:39	Fish	*Toxotes jaculatrix*	1	Seen	Incidental
20/1/2022	1.426742999	103.752283	N.A	10:42	Butterfly	*Eurema sp.*	1	Seen	Targeted
20/1/2022	1.426742999	103.752283	N.A	10:42	Butterfly	*Unidentified Nymphalidae*	1	Seen	Targeted
20/1/2022	1.426493973	103.752285	N.A	10:47	Butterfly	*Mycalesis perseoides perseoides*	1	Seen	Targeted
20/1/2022	1.426060041	103.752428	N.A	10:49	Butterfly	*Elymnias hypermnestra agina*	1	Seen	Targeted
20/1/2022	1.426060041	103.752428	N.A	10:49	Butterfly	*Prosotas dubiosa lumpura*	1	Seen	Targeted
20/1/2022	1.426060041	103.752428	N.A	10:49	Butterfly	*Iambrix salsala salsala*	1	Seen	Targeted
20/1/2022	1.425627032	103.7525	N.A	10:55	Bird	*Nisaetus cirrhatus*	1	Heard	Incidental
20/1/2022	1.425627032	103.7525	N.A	10:55	Plant	*Ardisia elliptica*	1	Seen	Targeted
20/1/2022	1.425398961	103.752559	N.A	10:57	Butterfly	*Parantica agleoides agleoides*	1	Seen	Targeted
20/1/2022	1.425148007	103.752606	N.A	10:59	Butterfly	*Papilio polytes romulus*	1	Seen	Targeted
20/1/2022	1.425148007	103.752606	N.A	10:59	Butterfly	*Ideopsis vulgaris macrina*	1	Seen	Targeted
20/1/2022	1.425067959	103.752672	N.A	11:01	Butterfly	*Ideopsis vulgaris macrina*	2	Seen	Targeted
20/1/2022	1.425067959	103.752672	N.A	11:01	Butterfly	*Eurema sp.*	2	Seen	Targeted
20/1/2022	1.423756024	103.752858	N.A	11:01	Butterfly	*Jamides celeno aelianus*	1	Seen	Targeted
20/1/2022	1.423756024	103.752858	N.A	11:01	Butterfly	*Elymnias hypermnestra agina*	1	Seen	Targeted
20/1/2022	1.423756024	103.752858	N.A	11:01	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
20/1/2022	1.424379973	103.752716	N.A	11:06	Butterfly	*Parantica agleoides agleoides*	1	Seen	Targeted
20/1/2022	1.424379973	103.752716	N.A	11:06	Butterfly	*Iambrix salsala salsala*	1	Seen	Targeted
20/1/2022	1.424379973	103.752716	N.A	11:06	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
20/1/2022	1.424379973	103.752716	N.A	11:06	Butterfly	*Eurema sp.*	4	Seen	Targeted
20/1/2022	1.423542034	103.752886	N.A	11:13	Butterfly	*Melanitis leda leda*	1	Seen	Targeted
20/1/2022	1.423135009	103.752953	N.A	11:15	Butterfly	*Iambrix salsala salsala*	1	Seen	Targeted
20/1/2022	1.423135009	103.752953	N.A	11:15	Butterfly	*Melanitis leda leda*	1	Seen	Targeted
20/1/2022	1.423008023	103.752972	N.A	11:17	Butterfly	*Elymnias hypermnestra agina*	2	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
20/1/2022	1.423008023	103.752972	N.A	11:17	Butterfly	*Eurema sp.*	2	Seen	Targeted
20/1/2022	1.422738042	103.753007	N.A	11:19	Butterfly	*Amathusia phidippus phidippus*	1	Seen	Targeted
20/1/2022	1.422738042	103.753007	N.A	11:19	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
20/1/2022	1.422738042	103.753007	N.A	11:19	Butterfly	*Eurema sp.*	2	Seen	Targeted
21/1/2022	1.407035971	103.75443	N.A	9:02	Butterfly	*Ideopsis vulgaris macrina*	1	Seen	Targeted
21/1/2022	1.40680002	103.754321	N.A	9:07	Aculeata	*Amegilla korotonensis*	1	Seen	Targeted
21/1/2022	1.40680002	103.754321	N.A	9:07	Bird	*Rhipidura javanica*	1	Seen	Incidental
21/1/2022	1.40680002	103.754321	N.A	9:07	Bird	*Actitis hypoleucos*	1	Seen	Incidental
21/1/2022	1.406700024	103.754321	N.A	9:14	Butterfly	*Elymnias hypermnestra agina*	1	Seen	Targeted
21/1/2022	1.406322001	103.754238	N.A	9:18	Butterfly	*Anthene emolus goberus*	1	Seen	Targeted
21/1/2022	1.406322001	103.754238	N.A	9:18	Butterfly	*Potanthus omaha omaha*	1	Seen	Targeted
21/1/2022	1.406000974	103.754186	N.A	9:21	Aculeata	*Apis cerana*	2	Seen	Targeted
21/1/2022	1.406000974	103.754186	N.A	9:21	Butterfly	*Ideopsis vulgaris macrina*	1	Seen	Targeted
21/1/2022	1.406000974	103.754186	N.A	9:21	Butterfly	*Suastus gremius gremius*	1	Seen	Targeted
21/1/2022	1.406000974	103.754186	N.A	9:21	Butterfly	*Acraea terpsicore*	1	Seen	Targeted
21/1/2022	1.406000974	103.754186	N.A	9:21	Butterfly	*Ideopsis vulgaris macrina*	8	Seen	Targeted
21/1/2022	1.406000974	103.754186	N.A	9:21	Butterfly	*Parantica agleoides agleoides*	2	Seen	Targeted
21/1/2022	1.404990032	103.753757	N.A	9:33	Aculeata	*Lipotriches ceratina*	1	Seen	Targeted
21/1/2022	1.404990032	103.753757	N.A	9:33	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
21/1/2022	1.404990032	103.753757	N.A	9:33	Butterfly	*Junonia almana javana*	1	Seen	Targeted
21/1/2022	1.404990032	103.753757	N.A	9:33	Butterfly	*Junonia orithya wallacei*	1	Seen	Targeted
21/1/2022	1.404990032	103.753757	N.A	9:33	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
21/1/2022	1.40427296	103.75353	N.A	9:36	Aculeata	*Apis cerana*	10	Seen	Targeted
21/1/2022	1.404036004	103.753462	N.A	9:37	Aculeata	*Lipotriches ceratina*	1	Seen	Targeted
21/1/2022	1.404036004	103.753462	N.A	9:37	Butterfly	*Acraea terpsicore*	1	Seen	Targeted
21/1/2022	1.400660025	103.752342	N.A	9:47	Aculeata	*Apis cerana*	3	Seen	Targeted
21/1/2022	1.399532994	103.752171	N.A	9:53	Bird	*Egretta garzetta*	1	Seen	Incidental

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
21/1/2022	1.39702999	103.752319	N.A	9:59	Bird	*Egretta garzetta*	1	Seen	Incidental
21/1/2022	1.393095022	103.752976	N.A	10:07	Butterfly	*Zizina otis lampa*	1	Seen	Targeted
21/1/2022	1.412668023	103.754467	MF02	18:07	Mollusc	*Faunus ater*	9	Seen	Targeted
21/1/2022	1.412668023	103.754467	MF02	18:07	Mollusc	*Geloina coaxans*	8	Seen	Targeted
21/1/2022	1.412668023	103.754467	MF02	18:07	Mollusc	*Geloina expansa*	2	Seen	Targeted
21/1/2022	1.412668023	103.754467	MF02	18:07	Mollusc	*Melanoides tuberculata*	14	Seen	Targeted
21/1/2022	1.412668023	103.754467	MF02	18:07	Mollusc	*Sermyla riqueti*	27	Seen	Targeted
21/1/2022	1.412668023	103.754467	MF02	18:07	Polychaete	*Polychaeta*	3	Seen	Targeted
21/1/2022	1.412668023	103.754467	MF02	18:41	Marine algae	*Chaetomorpha sp.*	90%	Seen	Targeted
21/1/2022	1.412668023	103.754467	MF02	18:41	Mollusc	*Faunus ater*	6	Seen	Targeted
21/1/2022	1.412668023	103.754467	MF02	18:41	Mollusc	*Melanoides tuberculata*	18	Seen	Targeted
21/1/2022	1.412668023	103.754467	MF02	18:41	Mollusc	*Sermyla riqueti*	47	Seen	Targeted
21/1/2022	1.412668023	103.754467	MF02	19:43	Decapod	*Ocypodidae*	1	Seen	Targeted
21/1/2022	1.412668023	103.754467	MF02	19:43	Decapod	*Sesarmidae*	1	Seen	Targeted
21/1/2022	1.412668023	103.754467	MF02	19:43	Marine algae	*Chaetomorpha sp.*	10%	Seen	Targeted
21/1/2022	1.412668023	103.754467	MF02	19:43	Mollusc	*Faunus ater*	1	Seen	Targeted
21/1/2022	1.412668023	103.754467	MF02	19:43	Mollusc	*Geloina coaxans*	4	Seen	Targeted
21/1/2022	1.412668023	103.754467	MF02	19:43	Mollusc	*Melanoides tuberculata*	4	Seen	Targeted
21/1/2022	1.412668023	103.754467	MF02	19:43	Mollusc	*Sermyla riqueti*	26	Seen	Targeted
21/1/2022	1.412668023	103.754467	MF02	19:43	Platyhelminthes	*Limnostylochus sp.*	1	Seen	Targeted
21/1/2022	1.441152999	103.822872	N.A	20:13	Bird	*Halcyon smyrnensis*	1	Seen	Targeted
21/1/2022	1.427812865	103.7522157	N.A	20:16:35	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
21/1/2022	1.427693004	103.752229	N.A	20:19	Reptile	*Ahaetulla prasina*	1	Seen	Targeted
21/1/2022	1.427403744	103.7522292	N.A	20:20:37	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
21/1/2022	1.427324871	103.7522506	N.A	20:21:16	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
21/1/2022	1.427345993	103.7522511	N.A	20:24:10	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
21/1/2022	1.427300228	103.7522656	N.A	20:24:23	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
21/1/2022	1.427300228	103.7522656	N.A	20:24:38	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
21/1/2022	1.427277094	103.7522414	N.A	20:24:51	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
21/1/2022	1.427277094	103.7522414	N.A	20:25:15	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
21/1/2022	1.427280027	103.7522631	N.A	20:25:39	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
21/1/2022	1.427220851	103.752316	N.A	20:27:49	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
21/1/2022	1.426942991	103.752358	N.A	20:29	Bird	*Butorides striata*	1	Seen	Targeted
21/1/2022	1.426942991	103.752358	N.A	20:29	Reptile	*Dendrelaphis caudolineatus*	1	Seen	Targeted
21/1/2022	1.426962353	103.7523566	N.A	20:30:06	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
21/1/2022	1.426962689	103.7523326	N.A	20:30:25	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
21/1/2022	1.426969562	103.7523552	N.A	20:31:18	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
21/1/2022	1.426942991	103.752358	N.A	20:32	Reptile	*Unidentified Gekkonidae*	1	Heard	Targeted
21/1/2022	1.426881216	103.752369	N.A	20:32:38	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
21/1/2022	1.426812988	103.7523656	N.A	20:33:08	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
21/1/2022	1.426747106	103.7524094	N.A	20:33:40	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
21/1/2022	1.426736042	103.752389	N.A	20:34	Reptile	*Calotes versicolor*	1	Seen	Targeted
21/1/2022	1.426736042	103.752389	N.A	20:35	Bird	*Muscicapa dauurica*	1	Seen	Targeted
21/1/2022	1.42652683	103.7524127	N.A	20:36:48	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
21/1/2022	1.426439993	103.752443	N.A	20:37	Bird	*Muscicapa dauurica*	1	Seen	Targeted
21/1/2022	1.426439993	103.752443	N.A	20:37	Reptile	*Dendrelaphis pictus*	1	Seen	Targeted
21/1/2022	1.426261961	103.752444	N.A	20:40	Mammal	*Muridae sp.*	1	Seen	Targeted
21/1/2022	1.426261961	103.752444	N.A	20:40	Reptile	*Unidentified Gekkonidae*	1	Seen	Targeted
21/1/2022	1.426134976	103.752576	N.A	20:42	Amphibian	*Limnonectes blythii*	1	Seen	Targeted
21/1/2022	1.425801963	103.752514	N.A	20:45	Reptile	*Dendrelaphis pictus*	1	Seen	Targeted
21/1/2022	1.425618986	103.752537	N.A	20:48	Bird	*Muscicapa dauurica*	1	Seen	Targeted
21/1/2022	1.425618818	103.7525346	N.A	20:48:41	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
21/1/2022	1.425283961	103.752652	N.A	20:53	Reptile	*Ahaetulla prasina*	1	Seen	Targeted
21/1/2022	1.425144989	103.752684	N.A	20:53	Reptile	*Unidentified Gekkonidae*	1	Heard	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
21/1/2022	1.424587592	103.7527767	N.A	21:01:59	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
21/1/2022	1.424349966	103.752846	N.A	21:06	Bird	*Rallina fasciata*	1	Seen	Targeted
21/1/2022	1.424347535	103.7528278	N.A	21:06:06	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
21/1/2022	1.424224656	103.7528256	N.A	21:07:49	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
21/1/2022	1.424166989	103.7528497	N.A	21:08:25	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
21/1/2022	1.423928607	103.7528749	N.A	21:11:25	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
21/1/2022	1.423186976	103.753008	N.A	21:18	Reptile	*Dendrelaphis caudolineatus*	1	Seen	Targeted
21/1/2022	1.423188318	103.753009	N.A	21:18:03	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
21/1/2022	1.423009029	103.753073	N.A	21:20	Bird	*Caprimulgus macrurus*	1	Seen	Targeted
21/1/2022	1.422191961	103.753121	N.A	21:30	Mammal	*Lutrogale perspicillata*	1	Seen	Targeted
21/1/2022	1.422444005	103.754378	N.A	21:36	Amphibian	*Sylvirana guentheri*	1	Seen	Targeted
21/1/2022	1.422444005	103.754378	N.A	21:36	Bird	*Caprimulgus macrurus*	1	Seen	Targeted
21/1/2022	1.422444005	103.754378	N.A	21:36	Reptile	*Unidentified Gekkonidae*	1	Heard	Targeted
21/1/2022	1.421347987	103.754302	N.A	21:40	Amphibian	*Microhyla mukhlesuri*	1	Heard	Targeted
21/1/2022	1.421347987	103.754302	N.A	21:40	Amphibian	*Polypedates leucomystax*	1	Heard	Targeted
21/1/2022	1.420901986	103.754253	N.A	21:41	Amphibian	*Microhyla heymonsi*	5	Heard	Targeted
21/1/2022	1.42057199	103.754233	N.A	21:42	Amphibian	*Microhyla mukhlesuri*	9	Heard	Targeted
21/1/2022	1.420260016	103.75421	N.A	21:43	Bird	*Caprimulgus macrurus*	1	Seen	Targeted
21/1/2022	1.41945703	103.754169	N.A	21:45	Amphibian	*Microhyla mukhlesuri*	2	Heard	Targeted
21/1/2022	1.419764981	103.754194	N.A	21:45	Butterfly	*Unidentified Pteropodidae*	1	Seen	Targeted
21/1/2022	1.41928101	103.75414	N.A	21:46	Amphibian	*Microhyla mukhlesuri*	4	Heard	Targeted
21/1/2022	1.418968029	103.754128	N.A	21:48	Mammal	*Sus scrofa*	1	Seen	Targeted
21/1/2022	N.A	N.A	N.A	21:48:07	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
21/1/2022	N.A	N.A	N.A	21:48:16	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
21/1/2022	1.418486992	103.754124	N.A	21:50	Reptile	*Ahaetulla prasina*	1	Seen	Targeted
21/1/2022	1.417767992	103.754162	N.A	21:53	Bird	*Caprimulgus macrurus*	1	Seen	Targeted
21/1/2022	1.418023976	103.754127	N.A	21:54	Reptile	*Unidentified Gekkonidae*	1	Heard	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
21/1/2022	1.416843971	103.754292	N.A	21:59	Amphibian	*Eleutherodactylus planirostris*	1	Seen	Targeted
21/1/2022	1.416843971	103.754292	N.A	21:59	Reptile	*Unidentified Gekkonidae*	1	Heard	Targeted
21/1/2022	1.416843971	103.754292	N.A	21:59	Reptile	*Dendrelaphis pictus*	1	Seen	Targeted
21/1/2022	1.416400988	103.75436	N.A	22:01	Reptile	*Ahaetulla prasina*	1	Seen	Targeted
21/1/2022	1.416008966	103.754445	N.A	22:03	Amphibian	*Eleutherodactylus planirostris*	1	Heard	Targeted
21/1/2022	1.415752983	103.754481	N.A	22:04	Bird	*Caprimulgus macrurus*	1	Seen	Targeted
21/1/2022	1.415027026	103.754627	N.A	22:07	Bird	*Caprimulgus macrurus*	1	Seen	Targeted
21/1/2022	1.414645985	103.754714	N.A	22:08	Amphibian	*Eleutherodactylus planirostris*	1	Heard	Targeted
21/1/2022	1.414645985	103.754714	N.A	22:08	Reptile	*Unidentified Gekkonidae*	1	Heard	Targeted
21/1/2022	1.412167037	103.755147	N.A	22:10	Amphibian	*Eleutherodactylus planirostris*	1	Heard	Targeted
21/1/2022	1.411790019	103.755215	N.A	22:22	Amphibian	*Sylvirana guentheri*	3	Heard	Targeted
21/1/2022	1.411790019	103.755215	N.A	22:22	Amphibian	*Microhyla heymonsi*	10	Heard	Targeted
21/1/2022	1.411790019	103.755215	N.A	22:22	Reptile	*Dendrelaphis pictus*	10	Heard	Targeted
21/1/2022	1.411735034	103.755208	N.A	22:24	Bird	*Caprimulgus macrurus*	2	Seen	Targeted
21/1/2022	1.409363039	103.755342	N.A	22:30	Amphibian	*Limnonectes blythii*	1	Heard	Targeted
21/1/2022	1.408246988	103.755138	N.A	22:33	Bird	*Caprimulgus macrurus*	1	Heard	Targeted
21/1/2022	1.425614879	103.752529	N.A	8:49:16 pm\	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
21/1/2022	1.418870967	103.753434	MF03	N.A	Bird	*Psittacula alexandri*	10	Heard	Targeted
21/1/2022	1.418870967	103.753434	MF03	N.A	Bird	*Todiramphus chloris*	1	Heard	Targeted
21/1/2022	1.418870967	103.753434	MF03	N.A	Bird	*Eudynamys scolopaceus*	1	Heard	Targeted
21/1/2022	1.418870967	103.753434	MF03	N.A	Bird	*Copsychus saularis*	1	Heard	Targeted
21/1/2022	1.418870967	103.753434	MF03	N.A	Bird	*Actitis hypoleucos*	1	Seen	Targeted
21/1/2022	1.418870967	103.753434	MF03	N.A	Bird	*Merops philippinus*	1	Seen	Targeted
21/1/2022	1.418870967	103.753434	MF03	N.A	Bird	*Psittacula alexandri*	1	Seen	Targeted
21/1/2022	1.412668023	103.754467	MF02	NA	Mollusc	*Achatina fulica*	1	Seen	Incidental
21/1/2022	1.412668023	103.754467	MF02	NA	Mollusc	*Cerithidea obtusa*	1	Seen	Incidental
21/1/2022	1.412668023	103.754467	MF02	NA	Mollusc	*Neritina cornucopia*	1	Seen	Incidental

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
21/1/2022	1.418870967	103.753434	MF03	NA	Mollusc	*Faunus ater*	1	Seen	Targeted
21/1/2022	1.418870967	103.753434	MF03	NA	Mollusc	*Geloina expansa*	23	Seen	Targeted
21/1/2022	1.418870967	103.753434	MF03	NA	Mollusc	*Tarebia granifera*	tmtc	Seen	Targeted
21/1/2022	1.418870967	103.753434	MF03	NA	Mollusc	*Geloina expansa*	16	Seen	Targeted
21/1/2022	1.418870967	103.753434	MF03	NA	Mollusc	*Sermyla riqueti*	4	Seen	Targeted
21/1/2022	1.418870967	103.753434	MF03	NA	Mollusc	*Tarebia granifera*	tmtc	Seen	Targeted
21/1/2022	1.418870967	103.753434	MF03	NA	Mollusc	*Xenostrobus sp.*	3	Seen	Targeted
21/1/2022	1.418870967	103.753434	MF03	NA	Mollusc	*Optediceros breviculum*	1	Seen	Targeted
21/1/2022	1.418870967	103.753434	MF03	NA	Mollusc	*Faunus ater*	1	Seen	Targeted
21/1/2022	1.418870967	103.753434	MF03	NA	Mollusc	*Geloina expansa*	9	Seen	Targeted
21/1/2022	1.418870967	103.753434	MF03	NA	Mollusc	*Sermyla riqueti*	6	Seen	Targeted
21/1/2022	1.418870967	103.753434	MF03	NA	Mollusc	*Tarebia granifera*	tmtc	Seen	Targeted
21/1/2022	1.418870967	103.753434	MF03	NA	Mollusc	*Xenostrobus sp.*	18	Seen	Targeted
21/1/2022	1.418870967	103.753434	MF03	NA	Polychaete	*Polychaeta*	1	Seen	Targeted
24/1/2022	1.407729993	103.7543066	N.A	19:52:07	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407725802	103.754321	N.A	19:53:40	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407724964	103.754321	N.A	19:55	Fish	*Channa micropeltes*	1	Seen	Targeted
24/1/2022	1.407724964	103.754321	N.A	19:55	Reptile	*Unidentified Gekkonidae*	1	Heard	Targeted
24/1/2022	1.407740135	103.7543028	N.A	19:55:16	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407725718	103.7543083	N.A	19:55:34	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407742733	103.7542983	N.A	19:56:16	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407742733	103.7542983	N.A	19:56:39	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407741476	103.7542988	N.A	19:57:06	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407738375	103.7543076	N.A	19:57:21	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407738375	103.7543076	N.A	19:57:32	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407741224	103.754311	N.A	19:57:53	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407741224	103.754311	N.A	19:58:08	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
24/1/2022	1.40774617	103.754303	N.A	19:58:23	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407754719	103.7543	N.A	19:58:38	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407722952	103.7543534	N.A	19:58:58	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407546261	103.7545744	N.A	19:59:34	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407442493	103.7545671	N.A	19:59:49	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407320034	103.754509	N.A	20:00	Amphibian	*Polypedates leucomystax*	1	Heard	Targeted
24/1/2022	1.407320034	103.754509	N.A	20:00	Reptile	*Unidentified Gekkonidae*	1	Heard	Targeted
24/1/2022	1.407345431	103.7545343	N.A	20:00:04	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407321794	103.7545103	N.A	20:00:33	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407316094	103.7545049	N.A	20:00:55	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407318274	103.7545039	N.A	20:01:56	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407318106	103.754504	N.A	20:02:11	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407318106	103.754504	N.A	20:02:25	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.40730218	103.7544936	N.A	20:02:40	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407233281	103.7545102	N.A	20:02:49	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407185169	103.7544547	N.A	20:03:31	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407185169	103.7544547	N.A	20:03:39	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407175362	103.7544573	N.A	20:03:45	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407176452	103.7544673	N.A	20:04:02	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407176452	103.7544673	N.A	20:04:13	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407108055	103.7544355	N.A	20:04:22	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.406902364	103.7543647	N.A	20:06:40	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.406850396	103.75436	N.A	20:06:48	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.406850396	103.75436	N.A	20:06:58	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.407077964	103.754427	N.A	20:07	Amphibian	*Fejervarya cancrivora*	1	Seen	Targeted
24/1/2022	1.407077964	103.754427	N.A	20:07	Bird	*Butorides striata*	1	Seen	Targeted
24/1/2022	1.407077964	103.754427	N.A	20:07	Reptile	*Calotes versicolor*	2	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
24/1/2022	1.407077964	103.754427	N.A	20:09	Amphibian	*Microhyla mukhlesuri*	1	Seen	Targeted
24/1/2022	1.406266009	103.754223	N.A	20:09	Bird	*Muscicapa dauurica*	1	Seen	Targeted
24/1/2022	1.407077964	103.754427	N.A	20:09	Reptile	*Calotes versicolor*	3	Seen	Targeted
24/1/2022	1.407077964	103.754427	N.A	20:09	Bird	*Butorides striata*	1	Seen	Targeted
24/1/2022	1.407077964	103.754427	N.A	20:09	Butterfly	*Unidentified Pteropodidae*	1	Seen	Targeted
24/1/2022	1.406359049	103.7542112	N.A	20:10:45	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.406248324	103.7541717	N.A	20:11:40	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
24/1/2022	1.406169785	103.7541482	N.A	20:11:48	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.406169785	103.7541482	N.A	20:11:56	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.406092253	103.7541251	N.A	20:12:04	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.406092253	103.7541251	N.A	20:12:12	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.406266009	103.754223	N.A	20:14	Reptile	*Unidentified Gekkonidae*	1	Heard	Targeted
24/1/2022	1.406266009	103.754223	N.A	20:14	Reptile	*Calotes versicolor*	1	Seen	Targeted
24/1/2022	1.406266009	103.754223	N.A	20:14	Reptile	*Calotes versicolor*	1	Seen	Targeted
24/1/2022	1.406262657	103.7542242	N.A	20:14:16	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.406202726	103.754193	N.A	20:15:15	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.406202726	103.754193	N.A	20:15:15	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
24/1/2022	1.406130977	103.7541809	N.A	20:15:24	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.406130977	103.7541809	N.A	20:15:24	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
24/1/2022	1.406045146	103.754141	N.A	20:15:49	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
24/1/2022	1.406045146	103.754141	N.A	20:15:49	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
24/1/2022	1.406004326	103.7541151	N.A	20:16:07	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
24/1/2022	1.405786984	103.75407	N.A	20:20	Bird	*Caprimulgus macrurus*	1	Seen	Targeted
24/1/2022	1.405357998	103.753905	N.A	20:22	Reptile	*Calotes versicolor*	1	Seen	Targeted
24/1/2022	1.405357998	103.753905	N.A	20:22	Reptile	*Dendrelaphis pictus*	1	Seen	Targeted
24/1/2022	1.40426198	103.753546	N.A	20:27	Reptile	*Calotes versicolor*	1	Seen	Targeted
24/1/2022	1.40426198	103.753546	N.A	20:27	Reptile	*Calotes versicolor*	2	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
24/1/2022	1.403678013	103.753332	N.A	20:29	Bird	*Butorides striata*	1	Heard	Targeted
24/1/2022	1.403495036	103.753279	N.A	20:29	Reptile	*Calotes versicolor*	1	Seen	Targeted
24/1/2022	1.403495036	103.753279	N.A	20:29	Reptile	*Calotes versicolor*	3	Seen	Targeted
24/1/2022	1.401985958	103.752768	N.A	20:35	Reptile	*Calotes versicolor*	1	Seen	Targeted
24/1/2022	1.401541969	103.752627	N.A	20:36	Reptile	*Calotes versicolor*	1	Seen	Targeted
24/1/2022	1.401008042	103.752473	N.A	20:38	Amphibian	*Eleutherodactylus planirostris*	1	Heard	Targeted
24/1/2022	1.401008042	103.752473	N.A	20:39	Reptile	*Unidentified Gekkonidae*	1	Heard	Targeted
24/1/2022	1.400692966	103.752381	N.A	20:40	Amphibian	*Polypedates leucomystax*	1	Heard	Targeted
24/1/2022	1.400190974	103.752314	N.A	20:42	Bird	*Butorides striata*	1	Seen	Targeted
24/1/2022	1.400190974	103.752314	N.A	20:42	Reptile	*Calotes versicolor*	1	Seen	Targeted
24/1/2022	1.398997977	103.752236	N.A	20:44	Reptile	*Calotes versicolor*	1	Seen	Targeted
24/1/2022	1.39871601	103.752205	N.A	20:45	Reptile	*Calotes versicolor*	1	Seen	Targeted
24/1/2022	1.39871601	103.752205	N.A	20:50	Amphibian	*Fejervarya sp.*	TMTC	Seen	Targeted
24/1/2022	1.39871601	103.752205	N.A	20:50	Amphibian	*Microhyla butleri*	1	Seen	Targeted
24/1/2022	1.397852004	103.75226	N.A	20:50	Amphibian	*Eleutherodactylus planirostris*	TMTC	Seen	Targeted
24/1/2022	1.397852004	103.75226	N.A	20:52	Amphibian	*Microhyla mukhlesuri*	1	Seen	Targeted
24/1/2022	1.397532988	103.752303	N.A	20:52	Reptile	*Calotes versicolor*	1	Seen	Targeted
24/1/2022	1.397366021	103.752314	N.A	20:52	Reptile	*Calotes versicolor*	1	Seen	Targeted
24/1/2022	1.397135016	103.75235	N.A	20:54	Amphibian	*Fejervarya sp.*	50	Seen	Targeted
24/1/2022	1.396661019	103.752437	N.A	20:56	Reptile	*Unidentified Gekkonidae*	1	Seen	Targeted
24/1/2022	1.396295987	103.752507	N.A	20:58	Amphibian	*Fejervarya sp.*	1	Seen	Targeted
24/1/2022	1.396299005	103.752513	N.A	20:59	Amphibian	*Duttaphrynus melanostictus*	1	Seen	Targeted
24/1/2022	1.395972027	103.752566	N.A	21:00	Reptile	*Hemidactylus frenatus*	1	Seen	Targeted
24/1/2022	1.39587597	103.752535	N.A	21:02	Amphibian	*Fejervarya sp.*	1	Seen	Targeted
24/1/2022	1.395454025	103.75262	N.A	21:03	Reptile	*Calotes versicolor*	1	Seen	Targeted
24/1/2022	1.395259984	103.752656	N.A	21:04	Bird	*Butorides striata*	1	Heard	Targeted
24/1/2022	1.394825969	103.752719	N.A	21:08	Reptile	*Hemidactylus frenatus*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
24/1/2022	1.393665997	103.752909	N.A	21:08	Reptile	*Calotes versicolor*	1	Seen	Targeted
24/1/2022	1.393444967	103.752947	N.A	21:09	Reptile	*Calotes versicolor*	2	Seen	Targeted
24/1/2022	1.393265007	103.75296	N.A	21:09	Reptile	*Calotes versicolor*	1	Seen	Targeted
24/1/2022	1.392925959	103.753013	N.A	21:10	Reptile	*Calotes versicolor*	2	Seen	Targeted
24/1/2022	1.392578026	103.75306	N.A	21:11	Reptile	*Calotes versicolor*	3	Seen	Targeted
24/1/2022	1.392319025	103.753097	N.A	21:12	Reptile	*Calotes versicolor*	2	Seen	Targeted
24/1/2022	1.392130014	103.753138	N.A	21:12	Reptile	*Calotes versicolor*	1	Seen	Targeted
24/1/2022	1.391977966	103.753157	N.A	21:13	Reptile	*Calotes versicolor*	1	Seen	Targeted
24/1/2022	1.391554009	103.75322	N.A	21:14	Amphibian	*Polypedates leucomystax*	1	Heard	Targeted
24/1/2022	1.391977966	103.753157	N.A	21:14	Reptile	*Hemidactylus frenatus*	1	Seen	Targeted
24/1/2022	1.391677978	103.75321	N.A	21:14	Reptile	*Calotes versicolor*	1	Seen	Targeted
24/1/2022	1.391554009	103.75322	N.A	21:14	Reptile	*Calotes versicolor*	1	Seen	Targeted
24/1/2022	1.391554009	103.75322	N.A	21:14	Reptile	*Calotes versicolor*	2	Seen	Targeted
24/1/2022	1.391226025	103.753308	N.A	21:15	Reptile	*Hemidactylus frenatus*	1	Seen	Targeted
24/1/2022	1.391113959	103.753499	N.A	21:17	Reptile	*Calotes versicolor*	2	Seen	Targeted
24/1/2022	1.390879015	103.753631	N.A	21:17	Reptile	*Calotes versicolor*	1	Seen	Targeted
24/1/2022	1.390348021	103.753816	N.A	21:19	Reptile	*Calotes versicolor*	1	Seen	Targeted
24/1/2022	1.390279038	103.753829	N.A	21:19	Reptile	*Calotes versicolor*	3	Seen	Targeted
25/1/2022	1.425749995	103.752488	N.A	7:30	Reptile	*Ahaetulla prasina*	1	Seen	Targeted
25/1/2022	1.413094997	103.754953	N.A	8:10	Reptile	*Naja sumatrana*	1	Seen	Targeted
25/1/2022	1.40807	103.75506	N.A	8:20	Reptile	*Naja sumatrana*	1	Seen	Targeted
25/1/2022	1.427799538	103.7522776	N.A	19:54:46	Mammal	*Saccolaimus saccolaimus*	NA	Acoustic	Targeted
25/1/2022	1.427799538	103.7522776	N.A	19:54:46	Mammal	*Saccolaimus saccolaimus*	NA	Acoustic	Targeted
25/1/2022	1.427808004	103.752254	N.A	19:55	Bird	*Caprimulgus macrurus*	1	Heard	Targeted
25/1/2022	1.427808004	103.752254	N.A	19:55	Bird	*Butorides striata*	1	Heard	Targeted
25/1/2022	1.427799538	103.7522776	N.A	19:55:04	Mammal	*Saccolaimus saccolaimus*	NA	Acoustic	Targeted
25/1/2022	1.427799538	103.7522776	N.A	19:55:04	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
25/1/2022	1.427799538	103.7522776	N.A	19:55:04	Mammal	*Saccolaimus saccolaimus*	NA	Acoustic	Targeted
25/1/2022	1.427799538	103.7522776	N.A	19:55:04	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.427816385	103.7522572	N.A	19:55:19	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.427816385	103.7522572	N.A	19:55:19	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.428159038	103.75219	N.A	19:57	Reptile	*Unidentified Gekkonidae*	1	Heard	Targeted
25/1/2022	1.42797648	103.7522252	N.A	19:57:01	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.42797648	103.7522252	N.A	19:57:01	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.428279905	103.7521891	N.A	19:58:24	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.428279905	103.7521891	N.A	19:58:24	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.428720038	103.752101	N.A	20:02	Bird	*Amaurornis phoenicurus*	1	Seen	Targeted
25/1/2022	1.428915001	103.752068	N.A	20:03	Bird	*Butorides striata*	1	Seen	Targeted
25/1/2022	1.428997982	103.752098	N.A	20:04	Reptile	*Unidentified Gekkonidae*	1	Heard	Targeted
25/1/2022	1.428997982	103.752098	N.A	20:04	Reptile	*Ahaetulla prasina*	1	Seen	Targeted
25/1/2022	1.429897025	103.751919	N.A	20:05	Amphibian	*Microhyla mukhlesuri*	1	Seen	Targeted
25/1/2022	1.43009115	103.7519709	N.A	20:11:06	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.43009115	103.7519709	N.A	20:11:06	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.43009115	103.7519709	N.A	20:11:10	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.43009115	103.7519709	N.A	20:11:10	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.430773018	103.751968	N.A	20:15	Reptile	*Hemidactylus frenatus*	1	Seen	Targeted
25/1/2022	1.431333013	103.752238	N.A	20:20	Reptile	*Ahaetulla prasina*	1	Seen	Targeted
25/1/2022	1.43132966	103.752259	N.A	20:20:29	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.43132966	103.752259	N.A	20:20:29	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.431581033	103.752274	N.A	20:22	Reptile	*Gekko monarchus*	1	Seen	Targeted
25/1/2022	1.43208202	103.752143	N.A	20:26	Reptile	*Unidentified Gekkonidae*	1	Seen	Targeted
25/1/2022	1.432973016	103.75262	N.A	20:31	Reptile	*Ahaetulla prasina*	1	Seen	Targeted
25/1/2022	1.433893014	103.752914	N.A	20:36	Bird	*Caprimulgus macrurus*	1	Seen	Targeted
25/1/2022	1.434480166	103.7531118	N.A	20:39:26	Mammal	*Myotis muricola*	NA	Acoustic	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
25/1/2022	1.434480166	103.7531118	N.A	20:39:26	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
25/1/2022	1.43453951	103.7531725	N.A	20:39:45	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
25/1/2022	1.43453951	103.7531725	N.A	20:39:45	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
25/1/2022	1.43453951	103.7531725	N.A	20:39:54	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
25/1/2022	1.43453951	103.7531725	N.A	20:39:54	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
25/1/2022	1.434553005	103.7532049	N.A	20:40:00	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
25/1/2022	1.434553005	103.7532049	N.A	20:40:00	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
25/1/2022	1.434562393	103.7532479	N.A	20:40:06	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
25/1/2022	1.434562393	103.7532479	N.A	20:40:06	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
25/1/2022	1.434544288	103.7532286	N.A	20:40:32	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
25/1/2022	1.434544288	103.7532286	N.A	20:40:32	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
25/1/2022	1.434544288	103.7532286	N.A	20:40:48	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
25/1/2022	1.434544288	103.7532286	N.A	20:40:48	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
25/1/2022	1.434592316	103.7532085	N.A	20:40:53	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
25/1/2022	1.434592316	103.7532085	N.A	20:40:53	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
25/1/2022	1.434591981	103.753217	N.A	20:41	Mammal	*Rattus norvegicus*	1	Seen	Targeted
25/1/2022	1.434624838	103.7531965	N.A	20:41:15	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
25/1/2022	1.434624838	103.7531965	N.A	20:41:15	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
25/1/2022	1.43479499	103.753249	N.A	20:42	Reptile	*Unidentified Gekkonidae*	1	Heard	Targeted
25/1/2022	1.435679952	103.7532385	N.A	20:45:59	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.435679952	103.7532385	N.A	20:45:59	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.435804255	103.7532458	N.A	20:46:21	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.435804255	103.7532458	N.A	20:46:21	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.4360392	103.7530408	N.A	20:48:18	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.4360392	103.7530408	N.A	20:48:18	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.435922692	103.7528783	N.A	20:51:09	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.435922692	103.7528783	N.A	20:51:09	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
25/1/2022	1.435925122	103.7528753	N.A	20:51:24	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.435925122	103.7528753	N.A	20:51:24	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.435919004	103.7528707	N.A	20:52:48	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.435919004	103.7528707	N.A	20:52:48	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.435916992	103.7528697	N.A	20:53:03	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.435916992	103.7528697	N.A	20:53:03	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.435916992	103.7528697	N.A	20:53:11	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.435916992	103.7528697	N.A	20:53:11	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.435916992	103.7528697	N.A	20:53:18	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.435916992	103.7528697	N.A	20:53:18	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.435908694	103.7528699	N.A	20:53:31	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.435908694	103.7528699	N.A	20:53:31	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.435908694	103.7528699	N.A	20:53:46	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.435908694	103.7528699	N.A	20:53:46	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.435916489	103.7528893	N.A	20:54:47	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/1/2022	1.435916489	103.7528893	N.A	20:54:47	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.413014531	103.7547091	N.A	8:26:40	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.413005311	103.7546715	N.A	8:28:21	Mammal	*Pipistrellus javanicus*	NA	Acoustic	Targeted
26/1/2022	1.408013972	103.7550937	N.A	19:58:33	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.408131905	103.7550917	N.A	19:59:22	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.408468187	103.7552191	N.A	19:59:52	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.408468187	103.7552191	N.A	20:00:07	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.409242339	103.7553564	N.A	20:02:07	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.408034004	103.755098	N.A	20:05	Bird	*Caprimulgus macrurus*	1	Seen	Targeted
26/1/2022	1.409396986	103.755386	N.A	20:09	Bird	*Ploceus philippinus*	15	Seen	Targeted
26/1/2022	1.410331568	103.7554279	N.A	20:09:18	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.410427038	103.755418	N.A	20:10	Bird	*Caprimulgus macrurus*	2	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
26/1/2022	1.41100673	103.7553685	N.A	20:12:05	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
26/1/2022	1.411011759	103.7553733	N.A	20:12:17	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
26/1/2022	1.411391208	103.7553113	N.A	20:13:26	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.411452144	103.7553143	N.A	20:13:51	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.411452144	103.7553143	N.A	20:13:59	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.411390034	103.755309	N.A	20:14	Amphibian	*Sylvirana guentheri*	3	Heard	Targeted
26/1/2022	1.411390034	103.755309	N.A	20:14	Amphibian	*Microhyla heymonsi*	7	Heard	Targeted
26/1/2022	1.411390034	103.755309	N.A	20:14	Amphibian	*Sylvirana guentheri*	1	Seen	Targeted
26/1/2022	1.411466645	103.7553078	N.A	20:14:14	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.411466645	103.7553078	N.A	20:14:29	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.411533533	103.7553015	N.A	20:14:44	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.411533533	103.7553015	N.A	20:14:48	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.411608635	103.7552803	N.A	20:15:03	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.411608635	103.7552803	N.A	20:15:19	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.411636043	103.7552878	N.A	20:15:34	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.411655322	103.7552905	N.A	20:15:49	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.411791025	103.755236	N.A	20:16	Amphibian	*Polypedates leucomystax*	1	Heard	Targeted
26/1/2022	1.411654986	103.755291	N.A	20:16	Reptile	*Calotes versicolor*	1	Seen	Targeted
26/1/2022	1.411661105	103.7552721	N.A	20:16:24	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.411661105	103.7552721	N.A	20:16:24	Mammal	*Pipistrellus javanicus*	NA	Acoustic	Targeted
26/1/2022	1.411908036	103.7552131	N.A	20:17:19	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.412599962	103.755097	N.A	20:20	Bird	*Caprimulgus macrurus*	3	Seen	Targeted
26/1/2022	1.41299081	103.754995	N.A	20:22:01	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.413048226	103.7549969	N.A	20:22:09	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.412990475	103.7549621	N.A	20:22:51	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.413037162	103.7547051	N.A	20:23:24	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.41303272	103.7546882	N.A	20:23:59	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
26/1/2022	1.413015621	103.7547078	N.A	20:24:55	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
26/1/2022	1.412993912	103.7548346	N.A	20:29:25	Mammal	*Pipistrellus javanicus*	NA	Acoustic	Targeted
26/1/2022	1.413566982	103.754958	N.A	20:31	Reptile	*Calotes versicolor*	2	Seen	Targeted
26/1/2022	1.413818523	103.7548886	N.A	20:33:06	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.41402212	103.7548344	N.A	20:34:43	Mammal	*Rhinolophus refulgens*	NA	Acoustic	Targeted
26/1/2022	1.41402212	103.7548344	N.A	20:34:43	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.414008038	103.754869	N.A	20:35	Bird	*Strix seloputo*	1	Seen	Targeted
26/1/2022	1.414004853	103.7548681	N.A	20:35:32	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.414298806	103.7547699	N.A	20:36:59	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.414298806	103.7547699	N.A	20:37:18	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
26/1/2022	1.414423781	103.7547253	N.A	20:38:27	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.414423781	103.7547253	N.A	20:38:50	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.414433252	103.7547325	N.A	20:40:08	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.414433252	103.7547325	N.A	20:40:20	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.414433252	103.7547325	N.A	20:40:20	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
26/1/2022	1.414441969	103.7547426	N.A	20:40:38	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.414441969	103.7547426	N.A	20:40:49	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.414441969	103.7547426	N.A	20:40:49	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
26/1/2022	1.415474117	103.7545821	N.A	20:44:42	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.415558858	103.7545769	N.A	20:44:57	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.415558858	103.7545769	N.A	20:45:03	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.41562826	103.7545421	N.A	20:45:18	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.41562826	103.7545421	N.A	20:45:33	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.415738398	103.7545074	N.A	20:45:48	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.415835042	103.7544881	N.A	20:46:03	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.41595616	103.7544601	N.A	20:46:18	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.41595616	103.7544601	N.A	20:46:33	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
26/1/2022	1.416079709	103.7544293	N.A	20:46:50	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.416528979	103.75437	N.A	20:48	Amphibian	*Eleutherodactylus planirostris*	1	Heard	Targeted
26/1/2022	1.416530907	103.7543634	N.A	20:48:26	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.416543899	103.7543905	N.A	20:48:52	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
26/1/2022	1.416543899	103.7543905	N.A	20:49:07	Mammal	*Pipistrellus javanicus*	NA	Acoustic	Targeted
26/1/2022	1.416780017	103.7543495	N.A	20:49:36	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
26/1/2022	1.416780017	103.7543495	N.A	20:49:46	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
26/1/2022	1.416841792	103.7543298	N.A	20:49:54	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
26/1/2022	1.416841792	103.7543298	N.A	20:49:58	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
26/1/2022	1.416945979	103.754316	N.A	20:50	Reptile	*Ahaetulla prasina*	1	Seen	Targeted
26/1/2022	1.416960564	103.7543269	N.A	20:50:49	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
26/1/2022	1.417810991	103.754172	N.A	20:54	Bird	*Caprimulgus macrurus*	1	Seen	Targeted
26/1/2022	1.41801551	103.7541307	N.A	20:54:15	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.418688409	103.7541308	N.A	20:57:17	Mammal	*Taphozous melanopogon*	NA	Acoustic	Targeted
26/1/2022	1.419124017	103.7541328	N.A	20:58:53	Mammal	*Pipistrellus javanicus*	NA	Acoustic	Targeted
26/1/2022	1.419155952	103.7541057	N.A	21:00:18	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.41887	103.75343	MF03	21:04	Bird	*Butorides striata*	1	Heard	Targeted
26/1/2022	1.419438003	103.754153	N.A	21:14	Bird	*Caprimulgus macrurus*	1	Seen	Targeted
26/1/2022	1.419816613	103.7541823	N.A	21:15:29	Mammal	*Saccolaimus saccolaimus*	NA	Acoustic	Targeted
26/1/2022	1.420083996	103.754194	N.A	21:16	Reptile	*Calotes versicolor*	1	Seen	Targeted
26/1/2022	1.42049999	103.754236	N.A	21:17	Amphibian	*Microhyla mukhlesuri*	10	Heard	Targeted
26/1/2022	1.42049999	103.754236	N.A	21:17	Amphibian	*Polypedates leucomystax*	1	Heard	Targeted
26/1/2022	1.42049999	103.754236	N.A	21:17	Bird	*Caprimulgus macrurus*	1	Seen	Targeted
26/1/2022	1.42049999	103.754236	N.A	21:17	Reptile	*Ahaetulla prasina*	2	Seen	Targeted
26/1/2022	1.420404604	103.754211	N.A	21:17:19	Mammal	*Saccolaimus saccolaimus*	NA	Acoustic	Targeted
26/1/2022	1.420846833	103.7542624	N.A	21:19:27	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
26/1/2022	1.420893101	103.754257	N.A	21:19:38	Mammal	*Myotis muricola*	NA	Acoustic	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
26/1/2022	1.420893101	103.754257	N.A	21:19:42	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
26/1/2022	1.420893101	103.754257	N.A	21:19:49	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
26/1/2022	1.421264168	103.7542807	N.A	21:20:44	Mammal	*Taphozous melanopogon*	NA	Acoustic	Targeted
26/1/2022	1.421403978	103.754299	N.A	21:21	Amphibian	*Microhyla mukhlesuri*	1	Heard	Targeted
26/1/2022	1.421403978	103.754299	N.A	21:21	Bird	*Caprimulgus macrurus*	1	Seen	Targeted
26/1/2022	1.421403978	103.754299	N.A	21:21	Reptile	*Calotes versicolor*	1	Seen	Targeted
26/1/2022	1.421402385	103.7542796	N.A	21:21:19	Mammal	*Taphozous melanopogon*	NA	Acoustic	Targeted
26/1/2022	1.4216608	103.7543249	N.A	21:22:17	Mammal	*Taphozous melanopogon*	NA	Acoustic	Targeted
26/1/2022	1.4216608	103.7543249	N.A	21:22:17	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
26/1/2022	1.421753	103.7543243	N.A	21:22:32	Mammal	*Taphozous melanopogon*	NA	Acoustic	Targeted
26/1/2022	1.421861881	103.754333	N.A	21:22:45	Mammal	*Taphozous melanopogon*	NA	Acoustic	Targeted
26/1/2022	1.422056761	103.7543561	N.A	21:23:44	Mammal	*Taphozous melanopogon*	NA	Acoustic	Targeted
26/1/2022	1.422435036	103.754349	N.A	21:25	Amphibian	*Limnonectes blythii*	1	Seen	Targeted
26/1/2022	1.422435036	103.754349	N.A	21:25	Butterfly	*Unidentified Pteropodidae*	1	Seen	Targeted
26/1/2022	1.422500582	103.7543941	N.A	21:25:28	Mammal	*Pipistrellus javanicus*	NA	Acoustic	Targeted
26/1/2022	1.42196	103.75306	MF04	21:27	Amphibian	*Fejervarya cancrivora*	1	Seen	Targeted
26/1/2022	1.423073821	103.7530234	N.A	21:41:29	Mammal	*Pipistrellus javanicus*	NA	Acoustic	Targeted
26/1/2022	1.423210027	103.7529842	N.A	21:42:27	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
26/1/2022	1.423242465	103.7529515	N.A	21:42:42	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
26/1/2022	1.423278004	103.752944	N.A	21:43	Bird	*Butorides striata*	2	Heard	Targeted
26/1/2022	1.42326694	103.7529494	N.A	21:43:05	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
26/1/2022	1.423283871	103.7529603	N.A	21:43:29	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
26/1/2022	1.424175035	103.7527921	N.A	21:50:12	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.424175035	103.7527921	N.A	21:50:20	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.424208228	103.752816	N.A	21:50:36	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.424208228	103.752816	N.A	21:50:45	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/1/2022	1.425019009	103.752669	N.A	21:58	Reptile	*Dendrelaphis pictus*	2	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
26/1/2022	1.425272981	103.752641	N.A	22:00	Butterfly	*Unidentified Pteropodidae*	1	Seen	Targeted
26/1/2022	1.425622003	103.752527	N.A	22:03	Bird	*Caprimulgus macrurus*	1	Heard	Targeted
26/1/2022	1.425622003	103.752527	N.A	22:03	Reptile	*Unidentified Gekkonidae*	1	Heard	Targeted
26/1/2022	1.425824761	103.7524599	N.A	22:05:53	Mammal	*Myotis muricola*	NA	Acoustic	Targeted
26/1/2022	1.42584404	103.752503	N.A	22:06	Reptile	*Ahaetulla prasina*	1	Seen	Targeted
26/1/2022	1.427140972	103.752287	N.A	22:22	Bird	*Butorides striata*	1	Heard	Targeted
26/1/2022	1.427533999	103.752213	N.A	22:24	Bird	*Eurystomus orientalis*	1	Seen	Targeted
7/2/2022	1.389746033	103.753412	N.A	9:15	Butterfly	*Zizula hylax pygmaea*	1	Seen	Targeted
7/2/2022	1.389746033	103.753412	N.A	9:15	Butterfly	*Eurema sp.*	1	Seen	Targeted
7/2/2022	1.389746033	103.753412	N.A	9:15	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
7/2/2022	1.3901	103.753361	N.A	9:18	Aculeata	*Xylocopa sp.*	1	Seen	Targeted
7/2/2022	1.3901	103.753361	N.A	9:18	Butterfly	*Zizula hylax pygmaea*	1	Seen	Targeted
7/2/2022	1.3901	103.753361	N.A	9:18	Butterfly	*Junonia almana javana*	1	Seen	Targeted
7/2/2022	1.39072001	103.753307	N.A	9:20	Aculeata	*Xylocopa latipes*	1	Seen	Targeted
7/2/2022	1.39072001	103.753307	N.A	9:20	Butterfly	*Zizina otis lampa*	1	Seen	Targeted
7/2/2022	1.39072001	103.753307	N.A	9:20	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
7/2/2022	1.391731035	103.753162	N.A	9:26	Bird	*Actitis hypoleucos*	1	Seen	Incidental
7/2/2022	1.391731035	103.753162	N.A	9:26	Butterfly	*Zizina otis lampa*	1	Seen	Targeted
7/2/2022	1.391731035	103.753162	N.A	9:26	Reptile	*Trachemys scripta*	1	Seen	Incidental
7/2/2022	1.392288012	103.753093	N.A	9:28	Butterfly	*Acraea terpsicore*	1	Seen	Targeted
7/2/2022	1.392288012	103.753093	N.A	9:28	Butterfly	*Zizina otis lampa*	3	Seen	Targeted
7/2/2022	1.393303983	103.752956	N.A	9:33	Odonata	*Ischnura senegalensis*	1	Seen	Targeted
7/2/2022	1.393744033	103.752909	N.A	9:35	Bird	*Lanius cristatus*	1	Heard	Targeted
7/2/2022	1.393744033	103.752909	N.A	9:35	Butterfly	*Mycalesis mineus macromalayana*	1	Seen	Targeted
7/2/2022	1.393744033	103.752909	N.A	9:35	Butterfly	*Mycalesis mineus macromalayana*	1	Seen	Targeted
7/2/2022	1.39509704	103.752702	N.A	9:40	Butterfly	*Potanthus omaha omaha*	1	Seen	Targeted
7/2/2022	1.39509704	103.752702	N.A	9:40	Butterfly	*Iambrix salsala salsala*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
7/2/2022	1.39560096	103.752609	N.A	9:44	Butterfly	*Zizina otis lampa*	1	Seen	Targeted
7/2/2022	1.395894997	103.752536	N.A	9:46	Aculeata	*Liris aurulentus*	1	Seen	Targeted
7/2/2022	1.395894997	103.752536	N.A	9:46	Butterfly	*Zizina otis lampa*	6	Seen	Targeted
7/2/2022	1.395894997	103.752536	N.A	9:46	Odonata	*Diplacodes trivialis*	3	Seen	Targeted
7/2/2022	1.396849025	103.752403	N.A	9:50	Butterfly	*Zizina otis lampa*	1	Seen	Targeted
7/2/2022	1.396849025	103.752403	N.A	9:50	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
7/2/2022	1.396849025	103.752403	N.A	9:50	Odonata	*Diplacodes trivialis*	1	Seen	Targeted
7/2/2022	1.396849025	103.752403	N.A	9:50	Odonata	*Crocothemis servilia*	1	Seen	Targeted
7/2/2022	1.397430981	103.752312	N.A	9:56	Aculeata	*Nomia sp.*	1	Seen	Targeted
7/2/2022	1.397430981	103.752312	N.A	9:56	Butterfly	*Polytremis lubricans lubricans*	1	Seen	Targeted
7/2/2022	1.397642037	103.752267	N.A	10:00	Butterfly	*Pelopidas mathias mathias*	1	Seen	Targeted
7/2/2022	1.397642037	103.752267	N.A	10:00	Butterfly	*Zizina otis lampa*	1	Seen	Targeted
7/2/2022	1.397642037	103.752267	N.A	10:00	Odonata	*Crocothemis servilia*	2	Seen	Targeted
7/2/2022	1.398378974	103.752183	N.A	10:05	Butterfly	*Zizina otis lampa*	1	Seen	Targeted
7/2/2022	1.398378974	103.752183	N.A	10:05	Butterfly	*Appias libythea olferna*	1	Seen	Targeted
7/2/2022	1.398378974	103.752183	N.A	10:05	Butterfly	*Iambrix salsala salsala*	2	Seen	Targeted
7/2/2022	1.400507977	103.752309	N.A	10:17	Butterfly	*Mycalesis mineus macromalayana*	1	Seen	Targeted
7/2/2022	1.400507977	103.752309	N.A	10:17	Butterfly	*Ampittia dioscorides camertes*	1	Seen	Targeted
7/2/2022	1.400507977	103.752309	N.A	10:17	Butterfly	*Ampittia dioscorides camertes*	1	Seen	Targeted
7/2/2022	1.400507977	103.752309	N.A	10:17	Butterfly	*Zizina otis lampa*	3	Seen	Targeted
7/2/2022	1.400507977	103.752309	N.A	10:17	Butterfly	*Zizina otis lampa*	5	Seen	Targeted
7/2/2022	1.400507977	103.752309	N.A	10:17	Butterfly	*Iambrix salsala salsala*	3	Seen	Targeted
7/2/2022	1.40658	103.75417	MF01	10:23	Fish	*Butis butis/humeralis*	1	Seen	Targeted
7/2/2022	1.40658	103.75417	MF01	10:23	Fish	*Dermogenys collettei*	1	Seen	Targeted
7/2/2022	1.40658	103.75417	MF01	10:23	Fish	*Oryzias javanicus*	5	Seen	Targeted
7/2/2022	1.401699968	103.752683	N.A	10:27	Bird	*Butorides striata*	1	Seen	Incidental
7/2/2022	1.401699968	103.752683	N.A	10:27	Bird	*Egretta garzetta*	1	Seen	Incidental

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
7/2/2022	1.401699968	103.752683	N.A	10:27	Butterfly	*Mycalesis sp.*	2	Seen	Targeted
7/2/2022	1.40300897	103.753088	N.A	10:33	Butterfly	*Zizina otis lampa*	1	Seen	Targeted
7/2/2022	1.403930979	103.753411	N.A	10:37	Aculeata	*Apis cerana*	3	Seen	Targeted
7/2/2022	1.403930979	103.753411	N.A	10:37	Aculeata	*Apis florea*	1	Seen	Targeted
7/2/2022	1.403930979	103.753411	N.A	10:37	Butterfly	*Zizina otis lampa*	1	Seen	Targeted
7/2/2022	1.403930979	103.753411	N.A	10:37	Odonata	*Ischnura senegalensis*	1	Seen	Targeted
7/2/2022	1.403930979	103.753411	N.A	10:37	Odonata	*Neurothemis fluctuans*	1	Seen	Targeted
7/2/2022	1.403930979	103.753411	N.A	10:37	Odonata	*Crocothemis servilia*	1	Seen	Targeted
7/2/2022	1.404283019	103.753552	N.A	10:40	Aculeata	*Amegilla andrewsi*	1	Seen	Targeted
7/2/2022	1.404283019	103.753552	N.A	10:40	Aculeata	*Delta pyriforme*	1	Seen	Targeted
7/2/2022	1.404283019	103.753552	N.A	10:40	Butterfly	*Parantica agleoides agleoides*	1	Seen	Targeted
7/2/2022	1.404283019	103.753552	N.A	10:40	Butterfly	*Jamides bochus nabonassar*	1	Seen	Targeted
7/2/2022	1.404283019	103.753552	N.A	10:40	Odonata	*Crocothemis servilia*	1	Seen	Targeted
7/2/2022	1.412668023	103.754467	MF02	10:45	Fish	*Neostethus lankesteri*	8	Seen	Targeted
7/2/2022	1.412668023	103.754467	MF02	10:45	Fish	*Pseudogobius javanicus*	1	Seen	Targeted
7/2/2022	1.404773025	103.753706	N.A	10:48	Aculeata	*Apis florea*	1	Seen	Targeted
7/2/2022	1.404773025	103.753706	N.A	10:48	Butterfly	*Ideopsis vulgaris macrina*	1	Seen	Targeted
7/2/2022	1.404773025	103.753706	N.A	10:48	Butterfly	*Acraea terpsicore*	1	Seen	Targeted
7/2/2022	1.404773025	103.753706	N.A	10:48	Butterfly	*Zizina otis lampa*	2	Seen	Targeted
7/2/2022	1.404773025	103.753706	N.A	10:48	Odonata	*Ischnura senegalensis*	1	Seen	Targeted
7/2/2022	1.404773025	103.753706	N.A	10:48	Odonata	*Crocothemis servilia*	1	Seen	Targeted
7/2/2022	1.405731998	103.754001	N.A	10:56	Aculeata	*Apis cerana*	5	Seen	Targeted
7/2/2022	1.405731998	103.754001	N.A	10:56	Aculeata	*Xylocopa latipes*	1	Seen	Targeted
7/2/2022	1.405731998	103.754001	N.A	10:56	Aculeata	*Megachile disjuncta*	1	Seen	Targeted
7/2/2022	1.405731998	103.754001	N.A	10:56	Butterfly	*Jamides celeno aelianus*	1	Seen	Targeted
7/2/2022	1.405731998	103.754001	N.A	10:56	Butterfly	*Ideopsis vulgaris macrina*	1	Seen	Targeted
7/2/2022	1.405731998	103.754001	N.A	10:56	Butterfly	*Potanthus omaha omaha*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
7/2/2022	1.405731998	103.754001	N.A	10:56	Butterfly	*Iambrix salsala salsala*	1	Seen	Targeted
7/2/2022	1.405731998	103.754001	N.A	10:56	Butterfly	*Prosotas dubiosa lumpura*	5	Seen	Targeted
7/2/2022	1.405867031	103.754054	N.A	11:05	Aculeata	*Lipotriches ceratina*	1	Seen	Targeted
7/2/2022	1.405867031	103.754054	N.A	11:05	Butterfly	*Eurema hecabe contubernalis*	1	Seen	Targeted
7/2/2022	1.405867031	103.754054	N.A	11:05	Butterfly	*Acraea terpsicore*	1	Seen	Targeted
7/2/2022	1.405867031	103.754054	N.A	11:05	Butterfly	*Eurema hecabe contubernalis*	1	Seen	Targeted
7/2/2022	1.405867031	103.754054	N.A	11:05	Butterfly	*Ideopsis vulgaris macrina*	19	Seen	Targeted
7/2/2022	1.405867031	103.754054	N.A	11:05	Butterfly	*Parantica agleoides agleoides*	5	Seen	Targeted
7/2/2022	1.406365	103.754199	N.A	11:10	Butterfly	*Pelopidas mathias mathias*	1	Seen	Targeted
7/2/2022	1.406365	103.754199	N.A	11:10	Butterfly	*Parantica agleoides agleoides*	1	Seen	Targeted
7/2/2022	1.406365	103.754199	N.A	11:10	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
7/2/2022	1.406365	103.754199	N.A	11:10	Butterfly	*Unidentified swift*	1	Seen	Targeted
7/2/2022	1.40658	103.75417	MF01	11:13	Aculeata	*Vespa tropica*	1	Seen	Targeted
7/2/2022	1.40658	103.75417	MF01	11:13	Butterfly	*Zizina otis lampa*	1	Seen	Targeted
7/2/2022	1.40658	103.75417	MF01	11:13	Odonata	*Crocothemis servilia*	3	Seen	Targeted
8/2/2022	1.40658	103.75417	MF01	10:56	Fish	*Ophiocara porocephala*	1	Caught	Trapping (K)
8/2/2022	1.412668023	103.754467	MF02	11:14	Fish	*Cichlasoma urophthalmum*	1	Caught	Trapping (K)
8/2/2022	1.412668023	103.754467	MF02	11:16	Fish	*Acentrogobius janthinopterus*	1	Caught	Trapping (K)
9/2/2022	1.42196	103.75306	MF04	9:24	Aculeata	*Apodynerus troglodytes*	1	Seen	Targeted
9/2/2022	1.42196	103.75306	MF04	9:24	Butterfly	*Parantica agleoides agleoides*	1	Seen	Targeted
9/2/2022	1.42196	103.75306	MF04	9:24	Butterfly	*Eurema sp.*	1	Seen	Targeted
9/2/2022	1.42196	103.75306	MF04	9:24	Odonata	*Tholymis tillarga*	1	Seen	Targeted
9/2/2022	1.422238983	103.753137	N.A	9:31	Butterfly	*Prosotas dubiosa lumpura*	1	Seen	Targeted
9/2/2022	1.422337973	103.75316	N.A	9:32	Butterfly	*Acraea terpsicore*	1	Seen	Targeted
9/2/2022	1.422337973	103.75316	N.A	9:32	Butterfly	*Pelopidas mathias mathias*	1	Seen	Targeted
9/2/2022	1.422337973	103.75316	N.A	9:32	Butterfly	*Eurema sp.*	3	Seen	Targeted
9/2/2022	1.422623964	103.753047	N.A	9:35	Aculeata	*Rhynchium haemorrhoidale*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
9/2/2022	1.422623964	103.753047	N.A	9:35	Aculeata	*Ropalidia stigma*	1	Seen	Targeted
9/2/2022	1.422623964	103.753047	N.A	9:35	Butterfly	*Unidentified Nymphalidae*	1	Seen	Targeted
9/2/2022	1.422623964	103.753047	N.A	9:35	Butterfly	*Eurema hecabe contubernalis*	1	Seen	Targeted
9/2/2022	1.422623964	103.753047	N.A	9:35	Butterfly	*Orsotriaena medus cinerea*	1	Seen	Targeted
9/2/2022	1.422623964	103.753047	N.A	9:35	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
9/2/2022	1.422947003	103.753021	N.A	9:38	Aculeata	*Parischnogaster mellyi*	1	Seen	Targeted
9/2/2022	1.422947003	103.753021	N.A	9:38	Aculeata	*Phimenes flavopictus*	1	Seen	Targeted
9/2/2022	1.422947003	103.753021	N.A	9:38	Bird	*Pycnonotus zeylanicus*	1	Seen	Incidental
9/2/2022	1.422947003	103.753021	N.A	9:38	Butterfly	*Papilio polytes romulus*	1	Seen	Targeted
9/2/2022	1.422947003	103.753021	N.A	9:38	Butterfly	*Potanthus omaha omaha*	1	Seen	Targeted
9/2/2022	1.422947003	103.753021	N.A	9:38	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
9/2/2022	1.422947003	103.753021	N.A	9:38	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
9/2/2022	1.422947003	103.753021	N.A	9:38	Butterfly	*Eurema sp.*	2	Seen	Targeted
9/2/2022	1.422947003	103.753021	N.A	9:38	Odonata	*Orthetrum chrysis*	1	Seen	Targeted
9/2/2022	1.422947003	103.753021	N.A	9:38	Odonata	*Lathrecista asiatica*	1	Seen	Targeted
9/2/2022	1.422947003	103.753021	N.A	9:38	Odonata	*Rhyothemis phyllis*	1	Seen	Targeted
9/2/2022	1.423429968	103.752884	N.A	9:50	Aculeata	*Liostenogaster varipicta*	1	Seen	Targeted
9/2/2022	1.423429968	103.752884	N.A	9:50	Butterfly	*Potanthus omaha omaha*	1	Seen	Targeted
9/2/2022	1.423429968	103.752884	N.A	9:50	Butterfly	*Rapala pheretima sequeira*	1	Seen	Targeted
9/2/2022	1.423429968	103.752884	N.A	9:50	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
9/2/2022	1.423429968	103.752884	N.A	9:50	Butterfly	*Eurema sp.*	2	Seen	Targeted
9/2/2022	1.423732974	103.752869	N.A	9:53	Butterfly	*Eurema hecabe contubernalis*	1	Seen	Targeted
9/2/2022	1.423732974	103.752869	N.A	9:53	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
9/2/2022	1.423907988	103.752815	N.A	10:01	Aculeata	*Vespa affinis*	1	Seen	Targeted
9/2/2022	1.423907988	103.752815	N.A	10:01	Butterfly	*Mycalesis perseoides perseoides*	1	Seen	Targeted
9/2/2022	1.423907988	103.752815	N.A	10:01	Butterfly	*Mycalesis mineus macromalayana*	1	Seen	Targeted
9/2/2022	1.423907988	103.752815	N.A	10:01	Butterfly	*Eurema sp.*	3	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
9/2/2022	1.424126001	103.752818	N.A	10:03	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
9/2/2022	1.424126001	103.752818	N.A	10:03	Butterfly	*Elymnias hypermnestra agina*	1	Seen	Targeted
9/2/2022	1.424126001	103.752818	N.A	10:03	Butterfly	*Potanthus omaha omaha*	1	Seen	Targeted
9/2/2022	1.424126001	103.752818	N.A	10:03	Butterfly	*Ampittia dioscorides camertes*	1	Seen	Targeted
9/2/2022	1.424126001	103.752818	N.A	10:03	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
9/2/2022	1.424126001	103.752818	N.A	10:03	Butterfly	*Phaedyma columella singa*	2	Seen	Targeted
9/2/2022	1.424920019	103.752704	N.A	10:13	Butterfly	*Eurema hecabe contubernalis*	1	Seen	Targeted
9/2/2022	1.424920019	103.752704	N.A	10:13	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
9/2/2022	1.424920019	103.752704	N.A	10:13	Butterfly	*Mycalesis visala phamis*	1	Seen	Targeted
9/2/2022	1.424920019	103.752704	N.A	10:13	Butterfly	*Papilio polytes romulus*	1	Seen	Targeted
9/2/2022	1.424920019	103.752704	N.A	10:13	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
9/2/2022	1.424920019	103.752704	N.A	10:13	Butterfly	*Eurema sp.*	4	Seen	Targeted
9/2/2022	1.425484959	103.752537	N.A	10:18	Butterfly	*Eurema sp.*	1	Seen	Targeted
9/2/2022	1.425484959	103.752537	N.A	10:18	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
9/2/2022	1.425484959	103.752537	N.A	10:18	Odonata	*Neurothemis fluctuans*	1	Seen	Targeted
9/2/2022	1.425890978	103.752489	N.A	10:22	Butterfly	*Phaedyma columella singa*	1	Seen	Targeted
9/2/2022	1.425890978	103.752489	N.A	10:22	Butterfly	*Iambrix salsala salsala*	1	Seen	Targeted
9/2/2022	1.425890978	103.752489	N.A	10:22	Butterfly	*Mycalesis visala phamis*	1	Seen	Targeted
9/2/2022	1.425890978	103.752489	N.A	10:22	Butterfly	*nacaduba sp.*	3	Seen	Targeted
9/2/2022	1.425890978	103.752489	N.A	10:22	Mammal	*Callosciurus notatus*	1	Seen	Incidental
9/2/2022	1.426488021	103.752373	N.A	10:29	Bird	*Ficedula zanthopygia*	1	Seen	Incidental
9/2/2022	1.426488021	103.752373	N.A	10:29	Butterfly	*Mycalesis visala phamis*	1	Seen	Targeted
9/2/2022	1.426488021	103.752373	N.A	10:29	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
9/2/2022	1.426488021	103.752373	N.A	10:29	Butterfly	*Eurema blanda snelleni*	1	Seen	Targeted
9/2/2022	1.42683	103.75222	MF05	10:30	Aculeata	*Lipotriches ceratina*	2	Seen	Targeted
9/2/2022	1.42683	103.75222	MF05	10:30	Butterfly	*Eurema sp.*	1	Seen	Targeted
9/2/2022	1.426857999	103.752288	N.A	10:38	Aculeata	*Nomia iridiscens*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
9/2/2022	1.426857999	103.752288	N.A	10:38	Butterfly	*Unidentified Nymphalidae*	1	Seen	Targeted
9/2/2022	1.426857999	103.752288	N.A	10:38	Butterfly	*Eurema blanda snelleni*	1	Seen	Targeted
9/2/2022	1.426857999	103.752288	N.A	10:38	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
9/2/2022	1.426857999	103.752288	N.A	10:38	Butterfly	*Polytremis lubricans lubricans*	1	Seen	Targeted
9/2/2022	1.426857999	103.752288	N.A	10:38	Butterfly	*Ideopsis vulgaris macrina*	1	Seen	Targeted
9/2/2022	1.426857999	103.752288	N.A	10:38	Butterfly	*Unidentified Nymphalidae*	3	Seen	Targeted
9/2/2022	1.426857999	103.752288	N.A	10:38	Butterfly	*Eurema sp.*	7	Seen	Targeted
9/2/2022	1.42723904	103.752295	N.A	10:45	Aculeata	*Vespa tropica*	2	Seen	Targeted
9/2/2022	1.42723904	103.752295	N.A	10:45	Butterfly	*Elymnias hypermnestra agina*	1	Seen	Targeted
9/2/2022	1.42723904	103.752295	N.A	10:45	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
9/2/2022	1.427789982	103.752149	N.A	10:47	Aculeata	*Chalybion bengalense*	1	Seen	Targeted
9/2/2022	1.427789982	103.752149	N.A	10:47	Aculeata	*Apis cerana*	1	Seen	Targeted
9/2/2022	1.427789982	103.752149	N.A	10:47	Aculeata	*Eumenes sp. aff. punctatus*	1	Seen	Targeted
9/2/2022	1.427789982	103.752149	N.A	10:47	Aculeata	*Xylocopa sp.*	1	Seen	Targeted
9/2/2022	1.427789982	103.752149	N.A	10:47	Butterfly	*Phaedyma columella singa*	1	Seen	Targeted
9/2/2022	1.427789982	103.752149	N.A	10:47	Butterfly	*Graphium sarpedon luctatius*	1	Seen	Targeted
9/2/2022	1.427789982	103.752149	N.A	10:47	Butterfly	*Unidentified Nymphalidae*	1	Seen	Targeted
9/2/2022	1.427789982	103.752149	N.A	10:47	Butterfly	*Eurema sp.*	3	Seen	Targeted
9/2/2022	1.427789982	103.752149	N.A	10:47	Odonata	*Brachydiplax chalybea*	1	Seen	Targeted
9/2/2022	1.427962985	103.752208	N.A	11:06	Aculeata	*Eumenes sp. aff. punctatus*	1	Seen	Targeted
9/2/2022	1.427962985	103.752208	N.A	11:06	Aculeata	*Ropalidia stigma*	1	Seen	Targeted
9/2/2022	1.427962985	103.752208	N.A	11:06	Aculeata	*Stenodyneriellus guttulatus*	1	Seen	Targeted
9/2/2022	1.427962985	103.752208	N.A	11:06	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
9/2/2022	1.427962985	103.752208	N.A	11:06	Butterfly	*Eurema sp.*	4	Seen	Targeted
9/2/2022	1.428604033	103.752105	N.A	11:08	Aculeata	*Vespa tropica*	2	Seen	Targeted
9/2/2022	1.428604033	103.752105	N.A	11:08	Butterfly	*Acraea terpsicore*	1	Seen	Targeted
9/2/2022	1.428604033	103.752105	N.A	11:08	Butterfly	*Eurema hecabe contubernalis*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
9/2/2022	1.428604033	103.752105	N.A	11:08	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
9/2/2022	1.428604033	103.752105	N.A	11:08	Butterfly	*Euthalia sp.*	1	Seen	Targeted
9/2/2022	1.429363014	103.751985	N.A	11:19	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
9/2/2022	1.429883027	103.751854	N.A	11:21	Aculeata	*Amegilla andrewsi*	1	Seen	Targeted
9/2/2022	1.429883027	103.751854	N.A	11:21	Butterfly	*Leptosia nina malayana*	1	Seen	Targeted
9/2/2022	1.429883027	103.751854	N.A	11:21	Butterfly	*Neptis hylas papaja*	1	Seen	Targeted
9/2/2022	1.429883027	103.751854	N.A	11:21	Butterfly	*Phaedyma columella singa*	1	Seen	Targeted
9/2/2022	1.429883027	103.751854	N.A	11:21	Butterfly	*Acraea terpsicore*	1	Seen	Targeted
9/2/2022	1.431735009	103.752345	N.A	11:33	Butterfly	*Eurema sp.*	1	Seen	Targeted
9/2/2022	1.432148991	103.752143	N.A	11:35	Aculeata	*Vespa tropica*	1	Seen	Targeted
9/2/2022	1.432148991	103.752143	N.A	11:35	Bird	*Alcedo atthis*	1	Seen	Incidental
9/2/2022	1.432148991	103.752143	N.A	11:35	Butterfly	*Curetis sp.*	1	Seen	Targeted
9/2/2022	1.432461971	103.752384	N.A	11:38	Aculeata	*Vespa sp.*	1	Seen	Targeted
9/2/2022	1.432461971	103.752384	N.A	11:38	Bird	*Pernis ptilorhynchus*	1	Seen	Targeted
9/2/2022	1.432461971	103.752384	N.A	11:38	Bird	*Haliaeetus leucogaster*	1	Seen	Targeted
9/2/2022	1.432461971	103.752384	N.A	11:38	Butterfly	*Dart sp.*	1	Seen	Targeted
9/2/2022	1.432461971	103.752384	N.A	11:38	Butterfly	*Dart sp.*	1	Seen	Targeted
9/2/2022	1.432461971	103.752384	N.A	11:38	Butterfly	*Eurema sp.*	1	Seen	Targeted
9/2/2022	1.432461971	103.752384	N.A	11:38	Butterfly	*Mycalesis sp.*	1	Seen	Targeted
9/2/2022	1.433231011	103.752718	N.A	11:48	Butterfly	*Junonia almana javana*	1	Seen	Targeted
9/2/2022	1.433231011	103.752718	N.A	11:48	Butterfly	*Eurema sp.*	1	Seen	Targeted
9/2/2022	1.433231011	103.752718	N.A	11:48	Butterfly	*Mycalesis sp.*	2	Seen	Targeted
9/2/2022	1.433968032	103.752899	N.A	11:52	Butterfly	*Eurema sp.*	4	Seen	Targeted
9/2/2022	1.433968032	103.752899	N.A	11:52	Butterfly	*Mycalesis sp.*	6	Seen	Targeted
9/2/2022	1.434533978	103.753136	N.A	12:00	Butterfly	*Junonia almana javana*	1	Seen	Targeted
9/2/2022	1.434533978	103.753136	N.A	12:00	Butterfly	*Potanthus omaha omaha*	1	Seen	Targeted
9/2/2022	1.434533978	103.753136	N.A	12:00	Butterfly	*Cephrenes trichopepla*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
9/2/2022	1.434533978	103.753136	N.A	12:00	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
9/2/2022	1.434533978	103.753136	N.A	12:00	Butterfly	*Prosotas dubiosa lumpura*	40	Seen	Targeted
9/2/2022	1.434533978	103.753136	N.A	12:00	Butterfly	*Iambrix salsala salsala*	2	Seen	Targeted
9/2/2022	1.43532699	103.753347	N.A	12:04	Butterfly	*Mycalesis mineus macromalayana*	1	Seen	Targeted
9/2/2022	1.43532699	103.753347	N.A	12:04	Butterfly	*Eurema hecabe contubernalis*	1	Seen	Targeted
9/2/2022	1.43532699	103.753347	N.A	12:04	Butterfly	*Acraea terpsicore*	1	Seen	Targeted
9/2/2022	1.43532699	103.753347	N.A	12:04	Butterfly	*Iambrix salsala salsala*	1	Seen	Targeted
9/2/2022	1.43532699	103.753347	N.A	12:04	Butterfly	*Appias libythea olferna*	1	Seen	Targeted
9/2/2022	1.43532699	103.753347	N.A	12:04	Butterfly	*Eurema sp.*	2	Seen	Targeted
9/2/2022	1.43532699	103.753347	N.A	12:04	Odonata	*Rhyothemis phyllis*	1	Seen	Targeted
9/2/2022	1.43664	103.75239	MF06	12:13	Aculeata	*Chalybion bengalense*	1	Seen	Targeted
9/2/2022	1.43664	103.75239	MF06	12:13	Aculeata	*Stenodyneriellus guttulatus*	1	Seen	Targeted
9/2/2022	1.40658	103.75417	MF01	N.A	Fish	*Butis butis/humeralis*	3	Seen	Targeted
9/2/2022	1.40658	103.75417	MF01	N.A	Fish	*Gobionellidae*	1	Seen	Targeted
9/2/2022	1.40658	103.75417	MF01	N.A	Fish	*Oryzias javanicus*	3	Seen	Targeted
9/2/2022	1.40658	103.75417	MF01	N.A	Fish	*Pseudogobius javanicus*	12	Seen	Targeted
9/2/2022	1.40658	103.75417	MF01	N.A	Fish	*UnID Poeciliidae*	1	Seen	Targeted
9/2/2022	1.412668023	103.754467	MF02	N.A	Fish	*Butis butis/humeralis*	1	Seen	Targeted
9/2/2022	1.412668023	103.754467	MF02	N.A	Fish	*Pseudogobius javanicus*	6	Seen	Targeted
9/2/2022	1.412668023	103.754467	MF02	N.A	Fish	*Rhinogobius similis*	4	Seen	Targeted
9/2/2022	1.436643032	103.752394	MF06	N.A	Fish	*Acentrogobius janthinopterus*	1	Caught	Trapping (B)
9/2/2022	1.436643032	103.752394	MF06	N.A	Fish	*Butis butis/humeralis*	2	Caught	Trapping (B)
9/2/2022	1.426887	103.752296	N.A	NA	Mollusc	*Ellobium aurisjudae*	1	Seen	Incidental
9/2/2022	1.412668023	103.754467	MF02	NA	Xiphosurid	*Carcinoscorpius rotundicauda*	1	Seen	Targeted
12/2/2022	1.408165013417600	103.755098	N.A	9:18	Butterfly	*Acraea terpsicore*	1	Seen	Targeted
12/2/2022	1.408325024	103.755154	N.A	9:20	Aculeata	*Lipotriches ceratina*	1	Seen	Targeted
12/2/2022	1.408325024	103.755154	N.A	9:20	Butterfly	*Appias libythea olferna*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
12/2/2022	1.408422003	103.755171	N.A	9:21	Aculeata	*Apis cerana*	1	Seen	Targeted
12/2/2022	1.408422003	103.755171	N.A	9:21	Butterfly	*Acraea terpsicore*	1	Seen	Targeted
12/2/2022	1.408747975	103.75522	N.A	9:21	Butterfly	*Acraea terpsicore*	3	Seen	Targeted
12/2/2022	1.40898996	103.755291	N.A	9:24	Butterfly	*Ampittia dioscorides camertes*	1	Seen	Targeted
12/2/2022	1.409522966	103.755337	N.A	9:28	Odonata	*Agriocnemis femina*	9	Seen	Targeted
12/2/2022	1.410172982	103.755359	N.A	9:35	Aculeata	*Lipotriches ceratina*	1	Seen	Targeted
12/2/2022	1.410172982	103.755359	N.A	9:35	Aculeata	*Apis cerana*	10	Seen	Targeted
12/2/2022	1.410172982	103.755359	N.A	9:35	Aculeata	*Xylocopa flavonigrescens*	1	Seen	Targeted
12/2/2022	1.410172982	103.755359	N.A	9:35	Odonata	*Neurothemis fluctuans*	1	Seen	Targeted
12/2/2022	1.41030198	103.755384	N.A	9:37	Aculeata	*Apis cerana*	20	Seen	Targeted
12/2/2022	1.41030198	103.755384	N.A	9:37	Aculeata	*Apis florea*	3	Seen	Targeted
12/2/2022	1.41030198	103.755384	N.A	9:37	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
12/2/2022	1.41030198	103.755384	N.A	9:37	Odonata	*Neurothemis fluctuans*	1	Seen	Targeted
12/2/2022	1.410514042	103.755404	N.A	9:40	Butterfly	*Eurema blanda snelleni*	1	Seen	Targeted
12/2/2022	1.410563998	103.755373	N.A	9:40	Butterfly	*Hypolimnas anomala anomala*	1	Seen	Targeted
12/2/2022	1.410718979	103.755381	N.A	9:40	Butterfly	*Zizina otis lampa*	1	Seen	Targeted
12/2/2022	1.410718979	103.755381	N.A	9:40	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
12/2/2022	1.410718979	103.755381	N.A	9:40	Butterfly	*Acraea terpsicore*	1	Seen	Targeted
12/2/2022	1.410718979	103.755381	N.A	9:40	Odonata	*Neurothemis fluctuans*	3	Seen	Targeted
12/2/2022	1.410826016	103.755387	N.A	9:43	Aculeata	*Xylocopa sp.*	1	Seen	Targeted
12/2/2022	1.410908997	103.755372	N.A	9:44	Aculeata	*Xylocopa sp.*	1	Seen	Targeted
12/2/2022	1.411037995	103.75534	N.A	9:45	Butterfly	*Acraea terpsicore*	1	Seen	Targeted
12/2/2022	1.411321973	103.755317	N.A	9:46	Odonata	*Neurothemis fluctuans*	2	Seen	Targeted
12/2/2022	1.411321973	103.755317	N.A	9:46	Odonata	*Agriocnemis femina*	5	Seen	Targeted
12/2/2022	1.411352986	103.755329	N.A	9:48	Odonata	*Neurothemis fluctuans*	8	Seen	Targeted
12/2/2022	1.411532024	103.755265	N.A	9:49	Odonata	*Neurothemis fluctuans*	3	Seen	Targeted
12/2/2022	1.411532024	103.755265	N.A	9:50	Odonata	*Agriocnemis femina*	15	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
12/2/2022	1.41162104	103.75525	N.A	9:51	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
12/2/2022	1.41162104	103.75525	N.A	9:51	Odonata	*Neurothemis fluctuans*	1	Seen	Targeted
12/2/2022	1.411582986	103.755252	N.A	9:53	Butterfly	*Prosotas dubiosa lumpura*	1	Seen	Targeted
12/2/2022	1.41188398	103.755194	N.A	9:57	Butterfly	*Eurema blanda snelleni*	1	Seen	Targeted
12/2/2022	1.412034016	103.755182	N.A	9:58	Aculeata	*Xylocopa latipes*	1	Seen	Targeted
12/2/2022	1.412628964	103.755052	N.A	10:01	Aculeata	*Apis cerana*	20	Seen	Targeted
12/2/2022	1.412628964	103.755052	N.A	10:01	Butterfly	*Acraea terpsicore*	2	Seen	Targeted
12/2/2022	1.412628964	103.755052	N.A	10:01	Butterfly	*Papilio demoleus malayanus*	1	Seen	Targeted
12/2/2022	1.412628964	103.755052	N.A	10:01	Butterfly	*Parantica agleoides agleoides*	1	Seen	Targeted
12/2/2022	1.412628964	103.755052	N.A	10:01	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
12/2/2022	1.41208699	103.755196	N.A	10:01	Aculeata	*Lipotriches ceratina*	5	Seen	Targeted
12/2/2022	1.412489992	103.755084	N.A	10:01	Aculeata	*Apis cerana*	1	Seen	Targeted
12/2/2022	1.412489992	103.755084	N.A	10:01	Butterfly	*Suastus gremius gremius*	1	Seen	Targeted
12/2/2022	1.41304303	103.754597	N.A	10:06	Butterfly	*Eurema blanda snelleni*	1	Seen	Targeted
12/2/2022	1.412969017	103.754706	N.A	10:06	Odonata	*Acisoma panorpoides*	1	Seen	Targeted
12/2/2022	1.413046969	103.754619	N.A	10:10	Butterfly	*Zizina otis lampa*	1	Seen	Targeted
12/2/2022	1.413074965	103.754678	N.A	10:11	Odonata	*Macrodiplax cora*	1	Seen	Targeted
12/2/2022	1.413191976	103.754904	N.A	10:15	Butterfly	*Lampides boeticus*	1	Seen	Targeted
12/2/2022	1.413191976	103.754904	N.A	10:15	Butterfly	*Euchrysops cnejus cnejus*	1	Seen	Targeted
12/2/2022	1.413191976	103.754904	N.A	10:15	Butterfly	*Eurema blanda snelleni*	1	Seen	Targeted
12/2/2022	1.413289038	103.754956	N.A	10:19	Aculeata	*Apis florea*	2	Seen	Targeted
12/2/2022	1.413289038	103.754956	N.A	10:19	Odonata	*Crocothemis servilia*	1	Seen	Targeted
12/2/2022	1.413545022	103.75495	N.A	10:23	Butterfly	*Eurema blanda snelleni*	10	Seen	Targeted
12/2/2022	1.413545022	103.75495	N.A	10:23	Odonata	*Orthetrum chrysis*	1	Seen	Targeted
12/2/2022	1.413685	103.754885	N.A	10:25	Aculeata	*Lipotriches ceratina*	1	Seen	Targeted
12/2/2022	1.413685	103.754885	N.A	10:25	Butterfly	*Parantica agleoides agleoides*	1	Seen	Targeted
12/2/2022	1.413911982	103.754833	N.A	10:25	Aculeata	*Apis cerana*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
12/2/2022	1.413685	103.754885	N.A	10:25	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
12/2/2022	1.413911982	103.754833	N.A	10:25	Butterfly	*Eurema blanda snelleni*	6	Seen	Targeted
12/2/2022	1.413911982	103.754833	N.A	10:28	Butterfly	*Potanthus omaha omaha*	1	Seen	Targeted
12/2/2022	1.414369969	103.75472	N.A	10:31	Aculeata	*Delta pyriforme*	1	Seen	Targeted
12/2/2022	1.414369969	103.75472	N.A	10:31	Butterfly	*Delias hyparete metarete*	1	Seen	Targeted
12/2/2022	1.414369969	103.75472	N.A	10:33	Butterfly	*Mycalesis mineus macromalayana*	1	Seen	Targeted
12/2/2022	1.414369969	103.75472	N.A	10:34	Butterfly	*Mycalesis perseus cepheus*	1	Seen	Targeted
12/2/2022	1.415308993	103.754575	N.A	10:36	Butterfly	*Papilio polytes romulus*	1	Seen	Targeted
12/2/2022	1.41541603	103.75456	N.A	10:36	Butterfly	*Junonia almana javana*	1	Seen	Targeted
12/2/2022	1.41541603	103.75456	N.A	10:36	Butterfly	*Junonia hedonia ida*	1	Seen	Targeted
12/2/2022	1.415524995	103.754558	N.A	10:39	Odonata	*Lathrecista asiatica*	1	Seen	Targeted
12/2/2022	1.415524995	103.754558	N.A	10:39	Odonata	*Ceriagrion cerinorubellum*	1	Seen	Targeted
12/2/2022	1.415608982	103.75457	N.A	10:41	Butterfly	*Appias libythea olferna*	2	Seen	Targeted
12/2/2022	1.415608982	103.75457	N.A	10:41	Butterfly	*Acraea terpsicore*	4	Seen	Targeted
12/2/2022	1.415608982	103.75457	N.A	10:41	Odonata	*Orthetrum testaceum*	1	Seen	Targeted
12/2/2022	1.415748959	103.754532	N.A	10:44	Odonata	*Neurothemis fluctuans*	1	Seen	Targeted
12/2/2022	1.415763963	103.754505	N.A	10:45	Aculeata	*Subancistrocerus sp.*	1	Seen	Targeted
12/2/2022	1.416202001	103.75444	N.A	10:47	Aculeata	*Lipotriches ceratina*	1	Seen	Targeted
12/2/2022	1.416380033	103.754427	N.A	10:48	Butterfly	*Mycalesis perseoides perseoides*	1	Seen	Targeted
12/2/2022	1.416662	103.754367	N.A	10:50	Butterfly	*Melanitis leda leda*	1	Seen	Targeted
12/2/2022	1.417488037	103.754214	N.A	10:55	Butterfly	*Junonia atlites atlites*	1	Seen	Targeted
12/2/2022	1.417488037	103.754214	N.A	10:56	Aculeata	*Ropalidia stigma*	1	Seen	Targeted
12/2/2022	1.417488037	103.754214	N.A	10:56	Odonata	*Ischnura senegalensis*	1	Seen	Targeted
12/2/2022	1.417764975	103.754164	N.A	10:58	Aculeata	*Apis cerana*	20	Seen	Targeted
12/2/2022	1.418621019	103.754105	N.A	11:01	Odonata	*Lathrecista asiatica*	1	Seen	Targeted
12/2/2022	1.418652032	103.754114	N.A	11:02	Butterfly	*Papilio polytes romulus*	1	Seen	Targeted
12/2/2022	1.419698009	103.754203	N.A	11:08	Butterfly	*Udaspes folus*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
12/2/2022	1.419917028	103.754221	N.A	11:08	Butterfly	*Junonia atlites atlites*	1	Seen	Targeted
12/2/2022	1.420209976	103.754198	N.A	11:10	Butterfly	*Neptis hylas papaja*	1	Seen	Targeted
12/2/2022	1.420209976	103.754198	N.A	11:10	Odonata	*Ceriagrion cerinorubellum*	1	Seen	Targeted
12/2/2022	1.420209976	103.754198	N.A	11:12	Odonata	*Onychargia atrocyana*	1	Seen	Targeted
12/2/2022	1.420240989	103.754014	N.A	11:12	Odonata	*Neurothemis fluctuans*	1	Seen	Targeted
12/2/2022	1.419367008	103.753577	N.A	11:13	Butterfly	*Acraea terpsicore*	2	Seen	Targeted
12/2/2022	1.419367008	103.753577	N.A	11:13	Odonata	*Acisoma panorpoides*	1	Seen	Targeted
12/2/2022	1.41954504	103.753586	N.A	11:21	Aculeata	*Stenodyneriellus guttulatus*	1	Seen	Targeted
12/2/2022	1.420476018	103.754179	N.A	11:21	Butterfly	*Eurema blanda snelleni*	1	Seen	Targeted
12/2/2022	1.420476018	103.754179	N.A	11:21	Butterfly	*Papilio polytes romulus*	1	Seen	Targeted
12/2/2022	1.420476018	103.754179	N.A	11:32	Odonata	*Orthetrum chrysis*	1	Seen	Targeted
12/2/2022	1.420476018	103.754179	N.A	11:32	Odonata	*Neurothemis fluctuans*	1	Seen	Targeted
12/2/2022	1.420591017	103.754267	N.A	11:34	Butterfly	*Papilio polytes romulus*	1	Seen	Targeted
12/2/2022	1.420591017	103.754267	N.A	11:34	Odonata	*Ceriagrion cerinorubellum*	2	Seen	Targeted
12/2/2022	1.421782002	103.754335	N.A	11:41	Aculeata	*Vespa affinis*	1	Seen	Targeted
12/2/2022	1.422162037	103.754362	N.A	11:43	Aculeata	*Ropalidia stigma*	1	Seen	Targeted
12/2/2022	1.421903037	103.754328	N.A	11:43	Butterfly	*Junonia almana javana*	1	Seen	Targeted
12/2/2022	1.421903037	103.754328	N.A	11:43	Butterfly	*Junonia atlites atlites*	1	Seen	Targeted
12/2/2022	1.422162037	103.754362	N.A	11:47	Odonata	*Orthetrum testaceum*	1	Seen	Targeted
14/2/2022	1.40658	103.75417	MF01	9:13	Odonata	*Crocothemis servilia*	6	Seen	Targeted
14/2/2022	1.404986009	103.753785	N.A	9:35	Odonata	*Crocothemis servilia*	2	Seen	Targeted
14/2/2022	1.404986009	103.753785	N.A	9:35	Odonata	*Orthetrum testaceum*	1	Seen	Targeted
14/2/2022	1.403175015	103.753178	N.A	9:51	Bird	*Pernis ptilorhynchus*	1	Seen	Incidental
14/2/2022	1.403175015	103.753178	N.A	9:51	Fish	*Batoidea*	1	Seen	Incidental
14/2/2022	1.403175015	103.753178	N.A	9:51	Odonata	*Macrodiplax cora*	1	Seen	Targeted
14/2/2022	1.398460027	103.752177	N.A	10:21	Odonata	*Orthetrum sabina*	2	Seen	Targeted
14/2/2022	1.396163972	103.752528	N.A	10:30	Odonata	*Orthetrum sabina*	7	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
14/2/2022	1.396163972	103.752528	N.A	10:30	Odonata	*Crocothemis servilia*	1	Seen	Targeted
14/2/2022	1.396163972	103.752528	N.A	10:30	Odonata	*Pantala flavescens*	1	Seen	Targeted
14/2/2022	1.396163972	103.752528	N.A	10:30	Odonata	*Diplacodes trivialis*	3	Seen	Targeted
14/2/2022	1.392800985	103.75307	N.A	10:48	Odonata	*Orthetrum sabina*	7	Seen	Targeted
14/2/2022	1.392800985	103.75307	N.A	10:48	Odonata	*Trithemis festiva*	1	Seen	Targeted
14/2/2022	1.392800985	103.75307	N.A	10:48	Odonata	*Pantala flavescens*	1	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	15:39	Bird	*Todiramphus chloris*	1	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	15:39	Bird	*Actitis hypoleucos*	6	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	15:39	Bird	*Egretta garzetta*	18	Seen	Targeted
15/2/2022	1.42683	103.75222	MF05	15:40	Bird	*Oriolus chinensis*	2	Heard	Targeted
15/2/2022	1.42683	103.75222	MF05	15:40	Bird	*Todiramphus chloris*	2	Heard	Targeted
15/2/2022	1.42683	103.75222	MF05	15:40	Bird	*Acridotheres javanicus*	2	Heard	Targeted
15/2/2022	1.42683	103.75222	MF05	15:40	Bird	*Actitis hypoleucos*	1	Heard	Incidental
15/2/2022	1.43664	103.75239	MF06	15:40	Bird	*Ardea intermedia*	3	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	15:43	Bird	*Ardea cinerea*	2	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	15:44	Bird	*Haliaeetus leucogaster*	1	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	15:45	Bird	*Todiramphus chloris*	1	Seen	Targeted
15/2/2022	1.42683	103.75222	MF05	15:50	Bird	*Dicaeum cruentatum*	3	Heard	Targeted
15/2/2022	1.42683	103.75222	MF05	15:50	Decapod	*Baruna trigranulum*	1	Seen	Targeted
15/2/2022	1.42683	103.75222	MF05	15:50	Mollusc	*Chicoreus capucinus*	3	Seen	Targeted
15/2/2022	1.42683	103.75222	MF05	15:50	Mollusc	*Geloina expansa*	36	Seen	Targeted
15/2/2022	1.42683	103.75222	MF05	15:50	Mollusc	*Xenostrobus sp.*	54	Seen	Targeted
15/2/2022	1.42683	103.75222	MF05	15:50	Polychaete	*Polychaeta*	1	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	15:58	Marine algae	*Rhodophyta*	30%	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	15:58	Mollusc	*Indothais grandata*	6	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	15:58	Mollusc	*Arcuatula senhousia*	1	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	15:58	Mollusc	*Diplodonta sp.*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
15/2/2022	1.43664	103.75239	MF06	15:58	Mollusc	*Gari sp.*	2	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	15:58	Mollusc	*Geloina expansa*	1	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	15:58	Mollusc	*Marcia japonica*	1	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	15:58	Mollusc	*Mytella strigata*	3	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	15:58	Mollusc	*Nassarius jacksonianus*	2	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	15:58	Platyhelminthes	*Limnostylochus sp.*	2	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	15:58	Seagrass	*Halophila beccarii*	70%	Seen	Targeted
15/2/2022	1.42683	103.75222	MF05	16:05	Mollusc	*Geloina expansa*	20	Seen	Targeted
15/2/2022	1.42683	103.75222	MF05	16:05	Mollusc	*Glauconome sp.*	3	Seen	Targeted
15/2/2022	1.42683	103.75222	MF05	16:05	Mollusc	*Neritina cornucopia*	1	Seen	Targeted
15/2/2022	1.42683	103.75222	MF05	16:05	Polychaete	*Polychaeta*	2	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	16:10	Marine algae	*Chaetomorpha sp.*	NA	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	16:10	Marine algae	*Rhodophyta*	99%	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	16:10	Marine algae	*Ulva flexuosa*	NA	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	16:10	Marine algae	*Ulva sp.*	1%	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	16:10	Mollusc	*Gari sp.*	NA	Seen	Targeted
15/2/2022	1.437420035	103.75214	N.A	16:13	Odonata	*Macrodiplax cora*	1	Seen	Incidental
15/2/2022	1.42683	103.75222	MF05	16:20	Decapod	*Ilyoplax sp.*	2	Seen	Targeted
15/2/2022	1.42683	103.75222	MF05	16:20	Decapod	*Metaplax elegans*	1	Seen	Targeted
15/2/2022	1.42683	103.75222	MF05	16:20	Mollusc	*Geloina expansa*	28	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	16:30	Marine algae	*Acanthophora sp.*	NA	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	16:30	Marine algae	*Bryopsis sp.*	NA	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	16:30	Marine algae	*Rhodophyta*	NA	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	16:30	Mollusc	*Arcuatula senhousia*	1	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	16:30	Mollusc	*Chicoreus capucinus*	1	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	16:30	Mollusc	*Gari sp.*	1	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	16:30	Mollusc	*Indothais grandata*	5	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
15/2/2022	1.43664	103.75239	MF06	16:30	Mollusc	*Marcia japonica*	7	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	16:30	Mollusc	*Mytella strigata*	TMTC	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	16:30	Mollusc	*Nassarius jacksonianus*	1	Seen	Targeted
15/2/2022	1.43664	103.75239	MF06	16:30	Platyhelminthes	*Onchidiidae*	5	Seen	Targeted
15/2/2022	1.42196	103.75306	MF04	17:10	Bird	*Todiramphus chloris*	1	Heard	Targeted
15/2/2022	1.42196	103.75306	MF04	17:10	Bird	*Eudynamys scolopaceus*	1	Heard	Targeted
15/2/2022	1.42196	103.75306	MF04	17:10	Bird	*Psittacula alexandri*	2	Heard	Targeted
15/2/2022	1.42196	103.75306	MF04	17:10	Bird	*Treron vernans*	1	Seen	Targeted
15/2/2022	1.42196	103.75306	MF04	17:10	Bird	*Psittacula krameri*	1	Seen	Targeted
15/2/2022	1.42196	103.75306	MF04	17:10	Bird	*Pycnonotus zeylanicus*	1	Seen	Targeted
15/2/2022	1.42196	103.75306	MF04	17:10	Bird	*Columba livia*	1	Seen	Targeted
15/2/2022	1.42196	103.75306	MF04	17:10	Bird	*Nectariniidae*	1	Heard	Targeted
15/2/2022	1.40658	103.75417	MF01	17:16	Bird	*Todiramphus chloris*	1	Seen	Targeted
15/2/2022	1.40658	103.75417	MF01	17:16	Bird	*Alcedo atthis*	1	Seen	Targeted
15/2/2022	1.40658	103.75417	MF01	17:18	Fish	*Cichlasoma urophthalmum*	1	Seen	Targeted
15/2/2022	1.42196	103.75306	MF04	17:20	Mollusc	*Cardiidae*	1	Seen	Targeted
15/2/2022	1.42196	103.75306	MF04	17:20	Mollusc	*Geloina expansa*	3	Seen	Targeted
15/2/2022	1.42196	103.75306	MF04	17:20	Mollusc	*Sermyla riqueti*	2	Seen	Targeted
15/2/2022	1.42196	103.75306	MF04	17:20	Mollusc	*Tarebia granifera*	12	Seen	Targeted
15/2/2022	1.42196	103.75306	MF04	17:20	Mollusc	*Xenostrobus sp.*	2	Seen	Targeted
15/2/2022	1.40658	103.75417	MF01	17:32	Mollusc	*Geloina coaxans*	2	Seen	Targeted
15/2/2022	1.40658	103.75417	MF01	17:32	Mollusc	*Mytella strigata*	1	Seen	Targeted
15/2/2022	1.40658	103.75417	MF01	17:32	Mollusc	*Mytilopsis adamsi*	1	Seen	Targeted
15/2/2022	1.40658	103.75417	MF01	17:32	Platyhelminthes	*Neanthes glandicincta (cf. Ceratonere*	10	Seen	Targeted
15/2/2022	1.42196	103.75306	MF04	17:35	Mollusc	*Tarebia granifera*	45	Seen	Targeted
15/2/2022	1.42196	103.75306	MF04	17:35	Mollusc	*Xenostrobus sp.*	1	Seen	Targeted
15/2/2022	1.40658	103.75417	MF01	17:40	Marine algae	*Rhodophyta*	NA	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
15/2/2022	1.40658	103.75417	MF01	17:40	Mollusc	*Geloina coaxans*	4	Seen	Targeted
15/2/2022	1.40658	103.75417	MF01	17:40	Mollusc	*Geloina expansa*	4	Seen	Targeted
15/2/2022	1.40658	103.75417	MF01	17:40	Mollusc	*Nassarius sp.*	1	Seen	Targeted
15/2/2022	1.40658	103.75417	MF01	17:40	Mollusc	*Sermyla riqueti*	1	Seen	Targeted
15/2/2022	1.40658	103.75417	MF01	17:40	Platyhelminthes	*Limnostylochus sp.*	1	Seen	Targeted
15/2/2022	1.40658	103.75417	MF01	17:40	Polychaete	*Polychaeta*	TMTC	Seen	Targeted
15/2/2022	1.40658	103.75417	MF01	17:50	Marine algae	*Rhodophyta*	NA	Seen	Targeted
15/2/2022	1.40658	103.75417	MF01	17:50	Mollusc	*Geloina coaxans*		Seen	Targeted
15/2/2022	1.40658	103.75417	MF01	17:50	Mollusc	*Mytilidae*	1	Seen	Targeted
15/2/2022	1.40658	103.75417	MF01	17:50	Mollusc	*Nassarius sp.*	1	Seen	Targeted
15/2/2022	1.40658	103.75417	MF01	17:50	Mollusc	*Sermyla riqueti*	1	Seen	Targeted
15/2/2022	1.42196	103.75306	MF04	17:50	Mollusc	*Ostreidae*	1	Seen	Targeted
15/2/2022	1.42196	103.75306	MF04	17:50	Mollusc	*Tarebia granifera*	68	Seen	Targeted
15/2/2022	1.42196	103.75306	MF04	17:50	Mollusc	*Xenostrobus sp.*	2	Seen	Targeted
15/2/2022	1.437109988	103.752153	N.A	N.A	Butterfly	*Curetis saronis sumatrana*	1	Seen	Incidental
18/2/2022	1.412668023	103.754467	MF02	17:13	Bird	*Actitis hypoleucos*	1	Seen	Targeted
18/2/2022	1.412668023	103.754467	MF02	17:13	Bird	*Egretta garzetta*	1	Seen	Targeted
18/2/2022	1.418870967	103.753434	MF03	17:13	Bird	*Actitis hypoleucos*	1	Seen	Targeted
18/2/2022	1.418870967	103.753434	MF03	17:13	Bird	*Actitis hypoleucos*	1	Seen	Targeted
18/2/2022	1.418870967	103.753434	MF03	17:13	Bird	*Todiramphus chloris*	1	Heard	Targeted
18/2/2022	1.418870967	103.753434	MF03	17:27	Mollusc	*Geloina coaxans*	75	Seen	Targeted
18/2/2022	1.418870967	103.753434	MF03	17:27	Mollusc	*Geloina expansa*	7	Seen	Targeted
18/2/2022	1.418870967	103.753434	MF03	17:27	Mollusc	*Mytella strigata*	1	Seen	Targeted
18/2/2022	1.418870967	103.753434	MF03	17:27	Mollusc	*Optediceros breviculum*	5	Seen	Targeted
18/2/2022	1.418870967	103.753434	MF03	17:27	Platyhelminthes	*Neanthes glandicincta (cf. Ceratonere*	4	Seen	Targeted
18/2/2022	1.418870967	103.753434	MF03	17:32	Mollusc	*Geloina coaxans*	36	Seen	Targeted
18/2/2022	1.418870967	103.753434	MF03	17:32	Mollusc	*Geloina expansa*	4	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
18/2/2022	1.418870967	103.753434	MF03	17:32	Mollusc	*Mytella strigata*	1	Seen	Targeted
18/2/2022	1.418870967	103.753434	MF03	17:32	Mollusc	*Neritina cornucopia*	1	Seen	Targeted
18/2/2022	1.418870967	103.753434	MF03	17:32	Mollusc	*Optediceros breviculum*	1	Seen	Targeted
18/2/2022	1.418870967	103.753434	MF03	17:32	Platyhelminthes	*Neanthes glandicincta (cf. Ceratonere*	3	Seen	Targeted
18/2/2022	1.418870967	103.753434	MF03	17:45	Mollusc	*Geloina coaxans*	92	Seen	Targeted
18/2/2022	1.418870967	103.753434	MF03	17:45	Mollusc	*Geloina expansa*	7	Seen	Targeted
18/2/2022	1.418870967	103.753434	MF03	17:45	Mollusc	*Optediceros breviculum*	1	Seen	Targeted
18/2/2022	1.412668023	103.754467	MF02	18:40	Mollusc	*Donax sp.*	28	Seen	Targeted
18/2/2022	1.412668023	103.754467	MF02	18:40	Mollusc	*Mytilidae*	1	Seen	Targeted
18/2/2022	1.412668023	103.754467	MF02	18:40	Mollusc	*Melanoides tuberculata*	TMTC	Seen	Targeted
18/2/2022	1.412668023	103.754467	MF02	18:40	Mollusc	*Ostreidae*	3	Seen	Targeted
18/2/2022	1.412668023	103.754467	MF02	18:40	Mollusc	*Sermyla riqueti*	TMTC	Seen	Targeted
18/2/2022	1.412668023	103.754467	MF02	18:40	Mollusc	*Tegillarca granosa*	1	Seen	Targeted
18/2/2022	1.412668023	103.754467	MF02	18:40	Mollusc	*Thiara scabra*	2	Seen	Targeted
18/2/2022	1.412668023	103.754467	MF02	18:49	Mollusc	*cf. Ruditapes philippinarum*	1	Seen	Targeted
18/2/2022	1.412668023	103.754467	MF02	18:49	Mollusc	*Faunus ater*	7	Seen	Targeted
18/2/2022	1.412668023	103.754467	MF02	18:49	Mollusc	*Melanoides tuberculata*	TMTC	Seen	Targeted
18/2/2022	1.412668023	103.754467	MF02	18:49	Mollusc	*Mytella strigata*	3	Seen	Targeted
18/2/2022	1.412668023	103.754467	MF02	18:49	Mollusc	*Mytilidae*	1	Seen	Targeted
18/2/2022	1.412668023	103.754467	MF02	18:49	Mollusc	*Paphia sp.*	1	Seen	Targeted
18/2/2022	1.412668023	103.754467	MF02	18:49	Mollusc	*Sermyla riqueti*	TMTC	Seen	Targeted
18/2/2022	1.412668023	103.754467	MF02	18:58	Mollusc	*Geloina sp.*	2	Seen	Targeted
18/2/2022	1.412668023	103.754467	MF02	18:58	Mollusc	*Melanoides tuberculata*	TMTC	Seen	Targeted
18/2/2022	1.412668023	103.754467	MF02	18:58	Mollusc	*Sermyla riqueti*	TMTC	Seen	Targeted
18/2/2022	1.412668023	103.754467	MF02	18:58	Mollusc	*Tarebia granifera*	1	Seen	Targeted
21/2/2022	1.4141775	103.7547423	N.A	16:29	Mammal	*Paradoxurus musangus*	1	Seen	Incidental
21/2/2022	1.389486026	103.7542	N.A	19:54	Reptile	*Calotes versicolor*	2	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
21/2/2022	1.389940996	103.754002	N.A	19:55	Reptile	*Calotes versicolor*	3	Seen	Targeted
21/2/2022	1.390205026	103.753905	N.A	19:58	Reptile	*Calotes versicolor*	2	Seen	Targeted
21/2/2022	1.390205026	103.753905	N.A	19:58	Reptile	*Calotes versicolor*	2	Seen	Targeted
21/2/2022	1.390304016	103.753863	N.A	19:59	Reptile	*Calotes versicolor*	3	Seen	Targeted
21/2/2022	1.390475007	103.753785	N.A	19:59	Reptile	*Calotes versicolor*	4	Seen	Targeted
21/2/2022	1.390475007	103.753785	N.A	19:59	Reptile	*Calotes versicolor*	4	Seen	Targeted
21/2/2022	1.390869962	103.753644	N.A	20:00	Amphibian	*Polypedates leucomystax*	1	Seen	Targeted
21/2/2022	1.391129969	103.753396	N.A	20:00	Amphibian	*Microhyla heymonsi*	1	Seen	Targeted
21/2/2022	1.391129969	103.753396	N.A	20:00	Amphibian	*Polypedates leucomystax*	2	Seen	Targeted
21/2/2022	1.391058974	103.753588	N.A	20:00	Reptile	*Calotes versicolor*	2	Seen	Targeted
21/2/2022	1.391074983	103.75326	N.A	20:02	Amphibian	*Microhyla mukhlesuri*	20	Heard	Targeted
21/2/2022	1.391074983	103.75326	N.A	20:02	Amphibian	*Microhyla sp.*	TMTC	Seen	Targeted
21/2/2022	1.391074983	103.75326	N.A	20:02	Reptile	*Calotes versicolor*	1	Seen	Targeted
21/2/2022	1.391230971	103.75328	N.A	20:04	Reptile	*Calotes versicolor*	2	Seen	Targeted
21/2/2022	1.391492989	103.753238	N.A	20:04	Reptile	*Calotes versicolor*	1	Seen	Targeted
21/2/2022	1.391629027	103.753212	N.A	20:04	Reptile	*Calotes versicolor*	2	Seen	Targeted
21/2/2022	1.39180203	103.753193	N.A	20:04	Reptile	*Calotes versicolor*	1	Seen	Targeted
21/2/2022	1.391919041	103.753176	N.A	20:04	Reptile	*Calotes versicolor*	1	Seen	Targeted
21/2/2022	1.392153986	103.753129	N.A	20:06	Reptile	*Calotes versicolor*	1	Seen	Targeted
21/2/2022	1.392153986	103.753129	N.A	20:07	Amphibian	*Microhyla heymonsi*	10	Heard	Targeted
21/2/2022	1.392304022	103.753099	N.A	20:09	Amphibian	*Polypedates leucomystax*	1	Heard	Targeted
21/2/2022	1.392304022	103.753099	N.A	20:09	Reptile	*Calotes versicolor*	1	Seen	Targeted
21/2/2022	1.392617002	103.753059	N.A	20:09	Reptile	*Calotes versicolor*	1	Seen	Targeted
21/2/2022	1.392617002	103.753059	N.A	20:09	Reptile	*Hemidactylus frenatus*	2	Seen	Targeted
21/2/2022	1.39285597	103.753017	N.A	20:10	Mammal	*Suncus murinus*	1	Seen	Targeted
21/2/2022	1.39285597	103.753017	N.A	20:10	Reptile	*Calotes versicolor*	1	Seen	Targeted
21/2/2022	1.393180015	103.752982	N.A	20:12	Amphibian	*Fejervarya limnocharis*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
21/2/2022	1.393180015	103.752982	N.A	20:12	Mammal	*Suncus murinus*	1	Seen	Targeted
21/2/2022	1.393667003	103.752888	N.A	20:14	Reptile	*Calotes versicolor*	1	Seen	Targeted
21/2/2022	1.393935978	103.752841	N.A	20:14	Reptile	*Hemidactylus frenatus*	1	Seen	Targeted
21/2/2022	1.395241963	103.752637	N.A	20:17	Amphibian	*Duttaphrynus melanostictus*	2	Heard	Targeted
21/2/2022	1.395241963	103.752637	N.A	20:17	Amphibian	*Microhyla heymonsi*	1	Heard	Targeted
21/2/2022	1.395241963	103.752637	N.A	20:17	Reptile	*Calotes versicolor*	2	Seen	Targeted
21/2/2022	1.395878987	103.752548	N.A	20:17	Reptile	*Calotes versicolor*	1	Seen	Targeted
21/2/2022	1.396242008	103.75245	N.A	20:21	Amphibian	*Polypedates leucomystax*	1	Heard	Targeted
21/2/2022	1.396242008	103.75245	N.A	20:21	Amphibian	*Microhyla heymonsi*	1	Heard	Targeted
21/2/2022	1.396242008	103.75245	N.A	20:21	Amphibian	*Polypedates leucomystax*	1	Heard	Targeted
21/2/2022	1.396242008	103.75245	N.A	20:21	Amphibian	*Microhyla heymonsi*	1	Heard	Targeted
21/2/2022	1.396242008	103.75245	N.A	20:21	Amphibian	*Fejervarya cancrivora*	1	Seen	Targeted
21/2/2022	1.396242008	103.75245	N.A	20:21	Amphibian	*Duttaphrynus melanostictus*	1	Seen	Targeted
21/2/2022	1.396242008	103.75245	N.A	20:21	Amphibian	*Fejervarya limnocharis*	TMTC	Seen	Targeted
21/2/2022	1.396322977	103.752471	N.A	20:23	Amphibian	*Microhyla sp.*	6	Seen	Targeted
21/2/2022	1.396608967	103.75243	N.A	20:24	Amphibian	*Microhyla mukhlesuri*	2	Heard	Targeted
21/2/2022	1.396608967	103.75243	N.A	20:24	Reptile	*Calotes versicolor*	2	Seen	Targeted
21/2/2022	1.39714499	103.752305	N.A	20:26	Amphibian	*Fejervarya limnocharis*	TMTC	Seen	Targeted
21/2/2022	1.39714499	103.752305	N.A	20:26	Amphibian	*Microhyla mukhlesuri*	1	Seen	Targeted
21/2/2022	1.397842029	103.752203	N.A	20:29	Amphibian	*Polypedates leucomystax*	1	Heard	Targeted
21/2/2022	1.397842029	103.752203	N.A	20:29	Amphibian	*Fejervarya limnocharis*	TMTC	Seen	Targeted
21/2/2022	1.397842029	103.752203	N.A	20:29	Amphibian	*Microhyla mukhlesuri*	1	Heard	Targeted
21/2/2022	1.397842029	103.752203	N.A	20:29	Amphibian	*Microhyla heymonsi*	1	Heard	Targeted
21/2/2022	1.397637008	103.752225	N.A	20:29	Reptile	*Calotes versicolor*	1	Seen	Targeted
21/2/2022	1.398258023	103.75219	N.A	20:31	Reptile	*Calotes versicolor*	1	Seen	Targeted
21/2/2022	1.398258023	103.75219	N.A	20:31	Reptile	*Hemidactylus frenatus*	1	Seen	Targeted
21/2/2022	1.398738977	103.752189	N.A	20:34	Amphibian	*Microhyla heymonsi*	5	Heard	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
21/2/2022	1.398738977	103.752189	N.A	20:34	Reptile	*Calotes versicolor*	2	Seen	Targeted
21/2/2022	1.399454959	103.752198	N.A	20:35	Bird	*Butorides striata*	1	Seen	Targeted
21/2/2022	1.399305006	103.752216	N.A	20:35	Reptile	*Calotes versicolor*	1	Seen	Targeted
21/2/2022	1.399742039	103.75226	N.A	20:37	Reptile	*Calotes versicolor*	1	Seen	Targeted
21/2/2022	1.399885034	103.75228	N.A	20:37	Reptile	*Calotes versicolor*	1	Seen	Targeted
21/2/2022	1.400234979	103.752257	N.A	20:38	Reptile	*Calotes versicolor*	1	Seen	Targeted
21/2/2022	1.400234979	103.752257	N.A	20:39	Bird	*Nycticorax nycticorax*	1	Seen	Targeted
21/2/2022	1.400390966	103.752294	N.A	20:39	Bird	*Ixobrychus sinensis*	1	Seen	Targeted
21/2/2022	1.400432959	103.752303	N.A	20:40	Amphibian	*Microhyla heymonsi*	5	Heard	Targeted
21/2/2022	1.401123041	103.752511	N.A	20:40	Amphibian	*Fejervarya sp.*	1	Seen	Targeted
21/2/2022	1.400826992	103.75244	N.A	20:40	Reptile	*Calotes versicolor*	1	Seen	Targeted
21/2/2022	1.400432959	103.752303	N.A	20:40	Amphibian	*Polypedates leucomystax*	1	Heard	Targeted
21/2/2022	1.400432959	103.752303	N.A	20:40	Reptile	*Calotes versicolor*	1	Seen	Targeted
21/2/2022	1.401123041	103.752511	N.A	20:41	Reptile	*Calotes versicolor*	1	Seen	Targeted
21/2/2022	1.401608018	103.752644	N.A	20:41	Reptile	*Calotes versicolor*	1	Seen	Targeted
21/2/2022	1.402460039	103.752949	N.A	20:47	Bird	*Actitis hypoleucos*	3	Seen	Targeted
21/2/2022	1.402460039	103.752949	N.A	20:47	Bird	*Butorides striata*	1	Seen	Targeted
21/2/2022	1.40232903	103.752905	N.A	20:47	Reptile	*Calotes versicolor*	2	Seen	Targeted
21/2/2022	1.40310796	103.753157	N.A	20:51	Reptile	*Calotes versicolor*	1	Seen	Targeted
21/2/2022	1.403414989	103.753252	N.A	20:51	Reptile	*Calotes versicolor*	1	Seen	Targeted
21/2/2022	1.404799009	103.753705	N.A	20:52	Amphibian	*Microhyla heymonsi*	1	Seen	Targeted
21/2/2022	1.404799009	103.753705	N.A	20:52	Amphibian	*Microhyla heymonsi*	1	Heard	Targeted
21/2/2022	1.404799009	103.753705	N.A	20:52	Amphibian	*Eleutherodactylus planirostris*	3	Heard	Targeted
21/2/2022	1.404799009	103.753705	N.A	20:52	Bird	*Caprimulgus macrurus*	1	Seen	Targeted
21/2/2022	1.404017983	103.753448	N.A	20:52	Reptile	*Calotes versicolor*	1	Seen	Targeted
21/2/2022	1.40414698	103.753486	N.A	20:52	Reptile	*Calotes versicolor*	1	Seen	Targeted
21/2/2022	1.405348023	103.753885	N.A	20:57	Reptile	*Calotes versicolor*	1	Seen	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
21/2/2022	1.405669972	103.754004	N.A	20:59	Bird	*Caprimulgus macrurus*	1	Seen	Targeted
21/2/2022	1.406600028	103.754261	N.A	21:01	Butterfly	*Unidentified Pteropodidae*	2	Seen	Targeted
21/2/2022	1.406600028	103.754261	N.A	21:02	Amphibian	*Duttaphrynus melanostictus*	1	Heard	Targeted
21/2/2022	1.406600028	103.754261	N.A	21:02	Amphibian	*Fejervarya cancrivora*	5	Heard	Targeted
21/2/2022	1.406600028	103.754261	N.A	21:02	Amphibian	*Microhyla mukhlesuri*	1	Seen	Targeted
21/2/2022	1.406600028	103.754261	N.A	21:02	Mammal	*Rattus tiomanicus*	3	Seen	Targeted
21/2/2022	1.406799015	103.75433	N.A	21:02	Reptile	*Calotes versicolor*	2	Seen	Targeted
21/2/2022	1.40703002	103.754403	N.A	21:09	Butterfly	*Unidentified Pteropodidae*	1	Seen	Targeted
21/2/2022	1.407304024	103.754468	N.A	21:10	Amphibian	*Fejervarya cancrivora*	2	Seen	Targeted
21/2/2022	1.40749203	103.754567	N.A	21:10	Amphibian	*Microhyla heymonsi*	1	Heard	Targeted
21/2/2022	1.406567004	103.75428	7m	N.A	Bird	*Ardea purpurea*	1	Seen	Incidental
23/2/2022	1.412890982	103.755027	N.A	N.A	Mammal	*Paradoxurus musangus*	1	Seen	Incidental
25/2/2022	1.386588989	103.755216	N.A	10:00	Aculeata	*Amegilla andrewsi*	1	Seen	Targeted
25/2/2022	1.38728301	103.75429	N.A	10:09	Aculeata	*Vespa affinis*	1	Seen	Incidental
25/2/2022	1.387262978	103.755358	N.A	10:37	Aculeata	*Bembicinus sp.*	20	Seen	Targeted
25/2/2022	1.42285	103.75606	N.A	17:53	Reptile	*Chrysopelea pelias*	1	Seen	Incidental
25/2/2022	1.42076	103.75437	N.A	19:24:03	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/2/2022	1.42076	103.75437	N.A	19:26:43	Mammal	*Pipistrellus javanicus*	NA	Acoustic	Targeted
25/2/2022	1.42076	103.75437	N.A	19:27:02	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/2/2022	1.42076	103.75437	N.A	19:30:32	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
25/2/2022	1.42076	103.75437	N.A	19:37:03	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
26/2/2022	1.422795039	103.75299	N.A	8:40	Mammal	*Rhinolophus refulgens*	2	Caught	Trapping
26/2/2022	N.A	N.A	N.A	20:47:53	Mammal	*Rhinolophus refulgens*	NA	Acoustic	Targeted
26/2/2022	N.A	N.A	N.A	20:48:18	Mammal	*Rhinolophus refulgens*	NA	Acoustic	Targeted
26/2/2022	N.A	N.A	N.A	20:48:33	Mammal	*Rhinolophus refulgens*	NA	Acoustic	Targeted
26/2/2022	N.A	N.A	N.A	20:48:41	Mammal	*Rhinolophus refulgens*	NA	Acoustic	Targeted
26/2/2022	N.A	N.A	N.A	20:48:59	Mammal	*Rhinolophus refulgens*	NA	Acoustic	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
26/2/2022	N.A	N.A	N.A	20:49:22	Mammal	*Rhinolophus refulgens*	NA	Acoustic	Targeted
26/2/2022	N.A	N.A	N.A	20:49:55	Mammal	*Rhinolophus refulgens*	NA	Acoustic	Targeted
26/2/2022	N.A	N.A	N.A	20:50:08	Mammal	*Rhinolophus refulgens*	NA	Acoustic	Targeted
26/2/2022	N.A	N.A	N.A	20:50:24	Mammal	*Rhinolophus refulgens*	NA	Acoustic	Targeted
26/2/2022	N.A	N.A	N.A	20:51:35	Mammal	*Rhinolophus refulgens*	NA	Acoustic	Targeted
26/2/2022	N.A	N.A	N.A	20:51:50	Mammal	*Rhinolophus refulgens*	NA	Acoustic	Targeted
26/2/2022	N.A	N.A	N.A	20:52:08	Mammal	*Rhinolophus refulgens*	NA	Acoustic	Targeted
26/2/2022	N.A	N.A	N.A	20:52:20	Mammal	*Rhinolophus refulgens*	NA	Acoustic	Targeted
26/2/2022	N.A	N.A	N.A	20:52:42	Mammal	*Rhinolophus refulgens*	NA	Acoustic	Targeted
26/2/2022	N.A	N.A	N.A	20:52:57	Mammal	*Rhinolophus refulgens*	NA	Acoustic	Targeted
26/2/2022	N.A	N.A	N.A	20:53:12	Mammal	*Rhinolophus refulgens*	NA	Acoustic	Targeted
26/2/2022	N.A	N.A	N.A	20:53:28	Mammal	*Rhinolophus refulgens*	NA	Acoustic	Targeted
26/2/2022	N.A	N.A	N.A	20:53:31	Mammal	*Rhinolophus refulgens*	NA	Acoustic	Targeted
26/2/2022	N.A	N.A	N.A	20:54:04	Mammal	*Rhinolophus refulgens*	NA	Acoustic	Targeted
26/2/2022	N.A	N.A	N.A	20:54:25	Mammal	*Rhinolophus refulgens*	NA	Acoustic	Targeted
26/2/2022	N.A	N.A	N.A	20:54:35	Mammal	*Rhinolophus refulgens*	NA	Acoustic	Targeted
26/2/2022	N.A	N.A	N.A	20:54:38	Mammal	*Rhinolophus refulgens*	NA	Acoustic	Targeted
28/2/2022	1.426822962	103.751911	N.A	N.A	Decapod	*Episesarma chentongense*	1	Seen	Incidental
28/2/2022	1.429222031	103.75141	N.A	N.A	Mollusc	*Cassidula sp.*	1	Seen	Incidental
15/3/2022	N.A	N.A	N.A	9:31:00	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
15/3/2022	N.A	N.A	N.A	9:31:38	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
15/3/2022	N.A	N.A	N.A	21:01:47	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
15/3/2022	N.A	N.A	N.A	21:02:03	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
15/3/2022	N.A	N.A	N.A	21:02:18	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
15/3/2022	N.A	N.A	N.A	21:04:30	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
15/3/2022	N.A	N.A	N.A	21:04:40	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
15/3/2022	N.A	N.A	N.A	21:05:01	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted

Date	Latitude	Longitude	Quadrat (m)	Time (24h)	Taxon	Scientific name	Quantity	Observation Type	Method
15/3/2022	N.A	N.A	N.A	21:05:49	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
15/3/2022	N.A	N.A	N.A	21:06:37	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
15/3/2022	N.A	N.A	N.A	21:07:13	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
15/3/2022	N.A	N.A	N.A	21:07:28	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
15/3/2022	N.A	N.A	N.A	21:16:54	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
15/3/2022	N.A	N.A	N.A	21:21:25	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
15/3/2022	N.A	N.A	N.A	21:25:09	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
15/3/2022	N.A	N.A	N.A	21:25:18	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
15/3/2022	N.A	N.A	N.A	21:26:19	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
15/3/2022	N.A	N.A	N.A	21:26:52	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
15/3/2022	N.A	N.A	N.A	21:27:58	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
15/3/2022	N.A	N.A	N.A	21:30:49	Mammal	*Scotophilus kuhlii*	NA	Acoustic	Targeted
31/3/2022	1.387257027	103.755331	N.A	13:39	Aculeata	*Bembicinus sp.*	2	Seen	Targeted
31/3/2022	1.387257027	103.755331	N.A	13:45	Aculeata	*Amegilla andrewsi*	1	Seen	Targeted
31/3/2022	1.387257027	103.755331	N.A	13:45	Aculeata	*Bembicinus sp.*	1	Seen	Targeted
31/3/2022	1.384961978	103.756012	N.A	13:59	Aculeata	*Scolia sp.*	1	Seen	Targeted
31/3/2022	1.382688973	103.757525	N.A	14:17	Aculeata	*Apis cerana*	1	Seen	Targeted
4/4/2022	1.420025993	103.753424	N.A	N.A	Mollusc	*Ellobium aurismidae*	1	Seen	Incidental
4/4/2022	1.420025993	103.753424	N.A	N.A	Mollusc	*Platevindex luteus*	1	Seen	Incidental
N.A	1.418589	103.7535	N.A	N.A	Bird	*Ardea purpurea*	1	Seen	Incidental

Date	Latitude	Longitude	Height (cm)	Diameter (cm)	Mouth Diameter (cm)	Remarks
14/12/2021	1.43578	103.75260	69	81	N.A	Plants
14/12/2021	1.43579	103.75262	47	115	8.0	hole (1)
14/12/2021	1.43584	103.75262	61	78	11.0	holes (2)
14/12/2021	1.43590	103.75260	30	53	N.A	no hole
14/12/2021	1.43596	103.75256	115	150	6.0	holes (2)
14/12/2021	1.43613	103.75253	120	133	2.0	1 hole (1)
14/12/2021	1.43617	103.75250	65	95	1.0	dead murex, beside wasps nest
14/12/2021	1.43622	103.75250	77	118	N.A	overgrown with plants
14/12/2021	1.43631	103.75250	32	75	N.A	no hole
14/12/2021	1.43677	103.75240	48	93	N.A	Ellobium, no hole
14/12/2021	1.43677	103.75236	57	41	N.A	no hole
14/12/2021	1.43536	103.75276	50	68	1.5	hole (1)
14/12/2021	1.43524	103.75273	35	250	6.0	many holes
14/12/2021	1.43521	103.75271	30	52	2.0	many holes (7)
14/12/2021	1.43462	103.75250	120	170	4.0	many holes (9)
14/12/2021	1.43451	103.75247	100	150	6.0	holes (3)
14/12/2021	1.43427	103.75241	64	129	N.A	no hole, plant growing out
14/12/2021	1.43423	103.75244	35	40	5.0	hole (1)
14/12/2021	1.43424	103.75236	20	40	5.0	hole (1)
14/12/2021	1.43409	103.75236	17	67	N.A	no hole, climbers growing out
14/12/2021	1.43406	103.75234	75	110	8.0	holes (2)
14/12/2021	1.43404	103.75234	71	55	N.A	no hole
14/12/2021	1.43380	103.75224	49	98	2.5	holes (2)
14/12/2021	1.43316	103.75205	37	128	N.A	hole covered with free discharged dirt
14/12/2021	1.43316	103.75204	17	28	1.5	hole (1)
14/12/2021	1.43315	103.75199	40	100	4.0	hole (1)
14/12/2021	1.43256	103.75180	12	38	8.5	hole (1)
14/12/2021	1.43250	103.75179	25	35	2.0	hole (6)
14/12/2021	1.43228	103.75179	10	14	5.0	hole (1)
19/1/2022	1.40847	103.75437	70	150	4.0	N.A
19/1/2022	1.40879	103.75448	50	50	2.0	N.A
19/1/2022	1.40896	103.75450	10	40	1.0	N.A
19/1/2022	1.40896	103.75450	40	50	4.0	N.A
19/1/2022	1.40896	103.75450	10	60	7.0	N.A
19/1/2022	1.40900	103.75448	20	40	4.0	N.A
19/1/2022	1.40913	103.75452	60	100	8.0	N.A
19/1/2022	1.40912	103.75450	15	30	8.0	N.A
19/1/2022	1.40983	103.75465	20	120	5.0	Crustacean went in
19/1/2022	1.40983	103.75465	15	40	2.0	N.A
19/1/2022	1.40983	103.75465	70	100	5.0	N.A
19/1/2022	1.41017	103.75470	15	150	4.0	N.A
19/1/2022	1.41042	103.75467	100	150	7.0	N.A
19/1/2022	1.41049	103.75469	120	140	5.0	N.A
19/1/2022	1.41040	103.75475	50	120	8.0	N.A
19/1/2022	1.41074	103.75469	15	300	10.0	N.A
19/1/2022	1.41090	103.75462	80	120	2.0	N.A
19/1/2022	1.41091	103.75464	70	300	10.0	
19/1/2022	1.41098	103.75461	50	200	8.0	
19/1/2022	1.41098	103.75461	130	180	7.0	N.A
19/1/2022	1.41108	103.75459	50	60	4.0	N.A
19/1/2022	1.41161	103.75453	40	60	2.0	N.A
19/1/2022	1.41169	103.75451	80	100	5.0	
19/1/2022	1.41169	103.75451	70	160	2.0	N.A
19/1/2022	1.41177	103.75452	50	70	3.0	N.A
19/1/2022	1.41204	103.75444	80	70	8.0	N.A
19/1/2022	1.41215	103.75443	120	80	3.0	N.A
19/1/2022	1.41108	103.75459	50	60	4.0	N.A
19/1/2022	1.41108	103.75459	50	60	4.0	N.A

Date	Latitude	Longitude	Height (cm)	Diameter (cm)	Mouth Diameter (cm)	Remarks
19/1/2022	1.41108	103.75459	30	80	3.0	
24/1/2022	1.40932	103.75484	62	41	N.A	Plants growing
24/1/2022	1.40930	103.75483	0	20	5.0	Hole only
24/1/2022	1.40947	103.75488	8	17	5.0	
24/1/2022	1.40995	103.75498	48	45	N.A	Plants growing
24/1/2022	1.40996	103.75496	50	65	N.A	N.A
24/1/2022	1.41000	103.75494	30	75	N.A	Geloina sp. x1
24/1/2022	1.41001	103.75493	5	20	5.5	N.A
24/1/2022	1.41026	103.75497	56	82	N.A	multiple mounds together
24/1/2022	1.41032	103.75495	47	33	8.0	5 holes
24/1/2022	1.41038	103.75495	26	72	8.0	4 holes, geloina sp.
24/1/2022	1.41063	103.75496	75	95	N.A	N.A
24/1/2022	1.41075	103.75494	43	80	7.0	2 mounds, 4 holes, ginger plant growing out
24/1/2022	1.41078	103.75497	80	140	4.5	2 holes, 2 mounds
24/1/2022	1.41080	103.75493	53	79	N.A	2 mounds
24/1/2022	1.41089	103.75492	70	105	4.0	2 mounds, crab holes
24/1/2022	1.41132	103.75483	55	230	6.5	Series of mounds on slope, small holes
24/1/2022	1.41178	103.75478	54	27	N.A	Holes around
24/1/2022	1.41206	103.75477	74	54	6.0	N.A
24/1/2022	1.41211	103.75470	65	53	N.A	N.A
24/1/2022	1.41216	103.75470	25	40	N.A	At base of tree
24/1/2022	1.41229	103.75468	111	87	8.5	N.A
24/1/2022	1.41250	103.75463	25	45	7.0	N.A
24/1/2022	1.41255	103.75462	90	123	9.0	5 holes, plants growing out
24/1/2022	1.41267	103.75458	47	44	6.0	N.A
24/1/2022	1.41277	103.75460	60	70	5.0	2 holes
24/1/2022	1.41333	103.75448	55	150	N.A	N.A
24/1/2022	1.41335	103.75450	30	43	6.0	1 hole (1)
24/1/2022	1.41340	103.75450	54	47	7.0	Sea hibiscus growing out
24/1/2022	1.41347	103.75447	90	110	6.0	7 holes, series of holes on side of hill
24/1/2022	1.41358	103.75448	20	150	9.0	3 holes
24/1/2022	1.41375	103.75442	40	400	6.5	
24/1/2022	1.41382	103.75439	50	100	3.0	2 holes, plants growing out
24/1/2022	1.41389	103.75440	38	34	2.0	Plants growing
21/2/2022	1.43213	103.75167	25	50	3.0	N.A
21/2/2022	1.43212	103.75166	37	68	N.A	N.A
21/2/2022	1.43202	103.75162	15	45	5.0	N.A
21/2/2022	1.43202	103.75162	20	30	N.A	2 mounds
21/2/2022	1.43192	103.75158	15	150	N.A	very old, very big clump
21/2/2022	1.43185	103.75157	10	80	N.A	N.A
21/2/2022	1.43180	103.75160	15	90	N.A	2 active mouths (split)
21/2/2022	1.43180	103.75160	15	90	N.A	2 active mouths (split)
21/2/2022	1.43171	103.75159	26	50	N.A	N.A
21/2/2022	1.43175	103.75155	37	110	N.A	N.A
21/2/2022	1.43172	103.75153	30	120	N.A	N.A
21/2/2022	1.43172	103.75152	40	200	N.A	2 mounds
21/2/2022	1.43172	103.75153	30	44	N.A	N.A
21/2/2022	1.43172	103.75153	10	55	N.A	N.A
21/2/2022	1.43167	103.75152	90	135	4.0	N.A
21/2/2022	1.43128	103.75135	20	60	N.A	N.A
21/2/2022	1.43113	103.75122	20	35	N.A	N.A
21/2/2022	1.43101	103.75129	20	45	N.A	N.A
21/2/2022	1.43096	103.75129	12	80	14.0	N.A
21/2/2022	1.43093	103.75124	15	170	15.0	Many mounds in a row
21/2/2022	1.43061	103.75121	15	55	N.A	N.A
21/2/2022	1.43031	103.75122	60	110	10.0	2 holes
21/2/2022	1.43029	103.75126	28	45	N.A	N.A

Date	Latitude	Longitude	Height (cm)	Diameter (cm)	Mouth Diameter (cm)	Remarks
21/2/2022	1.43029	103.75124	46	112	N.A	mangrove sapling, crabs, mound breaking
21/2/2022	1.43023	103.75124	45	60	5.0	N.A
21/2/2022	1.43020	103.75127	26	130	N.A	N.A
21/2/2022	1.43018	103.75126	35	50	N.A	N.A
21/2/2022	1.42986	103.75130	75	100	N.A	20 x semaphore crabs
21/2/2022	1.42984	103.75132	75	48	N.A	N.A
21/2/2022	1.42986	103.75135	37	55	N.A	N.A
21/2/2022	1.42983	103.75133	25	45	9.0	N.A
21/2/2022	1.42967	103.75136	40	50	N.A	N.A
21/2/2022	1.42968	103.75136	45	100	N.A	2 mounds
23/2/2022	1.41414	103.75443	23	7	7.0	4 holes
23/2/2022	1.41414	103.75439	15	32	N.A	Ficus growing out of it, SG318
23/2/2022	1.41421	103.75437	77	80	N.A	N.A
23/2/2022	1.41424	103.75436	50	90	6.0	2 mounds
23/2/2022	1.41425	103.75436	30	110	7.0	Many mounds
23/2/2022	1.41429	103.75439	70	100	6.0	N.A
23/2/2022	1.41431	103.75439	70	90	8.0	2 mounds, Ficus growing out
23/2/2022	1.41431	103.75439	45	37	5.0	N.A
23/2/2022	1.41431	103.75439	65	85	7.0	N.A
23/2/2022	1.41431	103.75439	40	30	N.A	N.A
23/2/2022	1.41438	103.75442	45	100	7.0	N.A
23/2/2022	1.41438	103.75442	35	75	N.A	N.A
23/2/2022	1.41442	103.75438	60	100	7.0	N.A
23/2/2022	1.41444	103.75437	45	80	4.0	N.A
23/2/2022	1.41442	103.75439	50	60	6.0	N.A
23/2/2022	1.41448	103.75436	90	105	7.0	3 mounds, SG319-320
23/2/2022	1.41456	103.75434	50	60	6.0	2 mounds
23/2/2022	1.41458	103.75435	85	135	5.0	N.A
23/2/2022	1.41463	103.75439	80	100	7.0	N.A
23/2/2022	1.41461	103.75430	80	130	N.A	Ficus growing out of it
23/2/2022	1.41469	103.75431	65	60	5.0	N.A
23/2/2022	1.41468	103.75433	60	100	5.0	N.A
23/2/2022	1.41471	103.75436	40	45	N.A	N.A
23/2/2022	1.41511	103.75425	70	100	N.A	N.A
23/2/2022	1.41514	103.75427	75	60	7.0	2 mounds
23/2/2022	1.41514	103.75427	50	70	6.0	N.A
23/2/2022	1.41516	103.75426	90	70	8.0	2 mounds
23/2/2022	1.41521	103.75424	60	85	5.0	N.A
23/2/2022	1.41524	103.75426	75	110	N.A	N.A
23/2/2022	1.41526	103.75424	30	40	6.0	N.A
23/2/2022	1.41534	103.75424	75	125	N.A	N.A
23/2/2022	1.41543	103.75422	60	300	8.0	N.A
23/2/2022	1.41548	103.75423	70	290	N.A	N.A
23/2/2022	1.41548	103.75424	55	70	8.0	2 mounds
23/2/2022	1.41550	103.75423	50	35	4.0	N.A
23/2/2022	1.41549	103.75422	50	40	9.0	N.A
23/2/2022	1.41552	103.75423	55	100	5.0	N.A
23/2/2022	1.41555	103.75424	40	90	10.0	N.A
23/2/2022	1.41558	103.75423	40	50	N.A	N.A
23/2/2022	1.41562	103.75424	35	105	N.A	3 mounds
23/2/2022	1.41568	103.75420	90	30	7.0	N.A
23/2/2022	1.41586	103.75415	70	120	N.A	N.A
23/2/2022	1.41589	103.75414	50	40	N.A	N.A
23/2/2022	1.41597	103.75414	45	36	7.0	N.A
23/2/2022	1.41600	103.75414	45	80	N.A	N.A
23/2/2022	1.41606	103.75412	45	60	6.0	N.A
23/2/2022	1.41609	103.75412	45	40	9.0	N.A
23/2/2022	1.41620	103.75411	80	200	N.A	2 mounds
23/2/2022	1.41618	103.75410	70	65	6.0	Ficus growing out of it

Date	Latitude	Longitude	Height (cm)	Diameter (cm)	Mouth Diameter (cm)	Remarks
23/2/2022	1.41620	103.75414	60	40	8.0	Ficus growing out of it
23/2/2022	1.41648	103.75406	50	30	4.0	N.A
23/2/2022	1.41654	103.75404	80	130	7.0	N.A
23/2/2022	1.41654	103.75404	55	50	N.A	N.A
23/2/2022	1.41661	103.75401	60	50	N.A	N.A
23/2/2022	1.41666	103.75402	120	60	10.0	Very nice mound
25/2/2022	1.41373	103.75414	40	50	5.0	N.A
25/2/2022	1.41369	103.75415	34	40	6.0	N.A
25/2/2022	1.41467	103.75397	36	47	6.0	N.A
25/2/2022	1.41467	103.75397	20	45	N.A	N.A
25/2/2022	1.41467	103.75397	68	75	N.A	N.A
25/2/2022	1.41497	103.75391	20	30	6.0	N.A
25/2/2022	1.41497	103.75391	20	30	8.0	N.A
25/2/2022	1.41501	103.75393	47	75	9.0	Vegetation growing out
25/2/2022	1.41501	103.75393	17	26	N.A	N.A
25/2/2022	1.41501	103.75393	22	42	N.A	N.A
25/2/2022	1.41501	103.75393	45	50	N.A	N.A
25/2/2022	1.41501	103.75393	23	30	N.A	N.A
25/2/2022	1.41535	103.75387	8	20	5.0	N.A
25/2/2022	1.41535	103.75387	25	37	N.A	N.A
25/2/2022	1.41537	103.75385	10	26	5.0	N.A
25/2/2022	1.41539	103.75385	25	24	3.0	N.A
25/2/2022	1.41539	103.75385	23	40	N.A	N.A
25/2/2022	1.41550	103.75381	15	19	5.0	N.A
25/2/2022	1.41550	103.75381	20	40	N.A	N.A
25/2/2022	1.41550	103.75381	18	35	N.A	N.A
25/2/2022	1.41550	103.75384	19	30	4.0	N.A
25/2/2022	1.41608	103.75374	38	76	4.0	N.A
25/2/2022	1.41608	103.75374	9	60	7.0	N.A
25/2/2022	1.41638	103.75371	30	64	N.A	Vegetation growing out
25/2/2022	1.41638	103.75371	35	77	8.0	N.A
25/2/2022	1.41704	103.75359	15	36	N.A	Within a tree
25/2/2022	1.41704	103.75359	12	32	5.0	N.A
25/2/2022	1.41717	103.75358	78	50	N.A	N.A
25/2/2022	1.41717	103.75358	24	85	4.0	N.A
25/2/2022	1.41757	103.75351	9	25	6.0	N.A
25/2/2022	1.41759	103.75350	30	55	6.0	N.A
25/2/2022	1.41795	103.75343	37	28	8.0	N.A
25/2/2022	1.41814	103.75338	22	50	7.0	N.A
25/2/2022	1.41846	103.75331	18	45	3.0	N.A
25/2/2022	1.41875	103.75329	33	45	6.0	N.A
25/2/2022	1.41875	103.75329	14	50	7.0	N.A
25/2/2022	1.41875	103.75329	20	21	7.0	Vegetation growing out
25/2/2022	1.41913	103.75319	25	40	3.0	Very fresh
25/2/2022	1.41917	103.75322	30	50	5.0	Very fresh
25/2/2022	1.41917	103.75322	25	60	N.A	Very fresh
25/2/2022	1.41969	103.75316	35	75	7.0	Very fresh
25/2/2022	1.41969	103.75316	35	34	4.0	N.A
25/2/2022	1.41976	103.75312	58	50	5.0	N.A
25/2/2022	1.42002	103.75309	45	74	5.0	N.A
25/2/2022	1.42028	103.75307	46	60	3.0	N.A
25/2/2022	1.42028	103.75307	20	70	N.A	N.A
25/2/2022	1.42029	103.75304	40	17	N.A	Very fresh
25/2/2022	1.42128	103.75285	35	45	2.0	N.A
25/2/2022	1.42128	103.75285	30	40	N.A	N.A
25/2/2022	1.42154	103.75283	33	40	4.0	N.A
25/2/2022	1.42172	103.75280	38	36	4.0	N.A
25/2/2022	1.42172	103.75279	36	48	5.0	7
25/2/2022	1.42172	103.75279	24	45	7.0	N.A
28/2/2022	1.42941	103.75142	50	65	6.0	N.A

Date	Latitude	Longitude	Height (cm)	Diameter (cm)	Mouth Diameter (cm)	Remarks
28/2/2022	1.42939	103.75140	30	90	N.A	small crab holes
28/2/2022	1.42930	103.75140	65	85	4.0	N.A
28/2/2022	1.42927	103.75137	8	35	N.A	N.A
28/2/2022	1.42923	103.75133	8	40	N.A	N.A
28/2/2022	1.42922	103.75141	28	34	4.0	Ants: Odontomachus malignus, nests in mud lobster mounds
28/2/2022	1.42914	103.75145	65	80	2.5	Many holes and sprouts emerging
28/2/2022	1.42909	103.75147	40	100	N.A	Ants: Odontomachus malignus, nests in mud lobster mounds
28/2/2022	1.42908	103.75143	80	65	1.0	N.A
28/2/2022	1.42908	103.75144	50	120	6.0	Plants growing
28/2/2022	1.42905	103.75150	60	80	N.A	Ants: Odontomachus malignus, seems to be predominantly an anthill now
28/2/2022	1.42896	103.75150	15	30	7.0	Crabs
28/2/2022	1.42896	103.75150	10	65	N.A	Plants growing
28/2/2022	1.42891	103.75151	25	95	11.0	N.A
28/2/2022	1.42883	103.75154	8	80	9.0	Crabs and ants
28/2/2022	1.42845	103.75159	40	75	7.0	N.A
28/2/2022	1.42840	103.75159	25	35	N.A	Collapsing
28/2/2022	1.42813	103.75163	30	80	5.5	N.A
28/2/2022	1.42787	103.75169	20	150	8.0	N.A
28/2/2022	1.42784	103.75164	23	45	1.0	N.A
28/2/2022	1.42749	103.75174	20	20	N.A	N.A
28/2/2022	1.42720	103.75180	35	75	2.0	N.A
28/2/2022	1.42708	103.75180	25	170	7.0	1 active hole, another far away (inaccessible)
28/2/2022	1.42708	103.75180	30	85	N.A	N.A
28/2/2022	1.42695	103.75183	70	100	5.0	N.A
28/2/2022	1.42685	103.75184	45	90	N.A	N.A
28/2/2022	1.42658	103.75193	12	26	N.A	N.A
28/2/2022	1.42656	103.75193	60	90	2.0	clams, lined nerites
28/2/2022	1.42655	103.75195	20	45	N.A	N.A
28/2/2022	1.42622	103.75197	15	45	N.A	N.A
28/2/2022	1.42600	103.75201	28	45	8.5	N.A
28/2/2022	1.42600	103.75199	40	120	6.5	Semaphore crabs
28/2/2022	1.42601	103.75201	50	100	N.A	Semaphore crabs
28/2/2022	1.42604	103.75201	60	160	6.0	Semaphore crabs
28/2/2022	1.42582	103.75206	25	45	N.A	N.A
28/2/2022	1.42548	103.75211	20	25	N.A	N.A
28/2/2022	1.42547	103.75211	55	140	N.A	N.A
28/2/2022	1.42534	103.75215	45	45	N.A	N.A
28/2/2022	1.42515	103.75220	135	150	5.0	N.A
28/2/2022	1.42440	103.75235	18	30	N.A	2 mounds, same size
28/2/2022	1.42433	103.75234	50	55	7.0	N.A
28/2/2022	1.42432	103.75231	45	90	N.A	N.A
28/2/2022	1.42416	103.75238	55	90	N.A	N.A
28/2/2022	1.42392	103.75239	40	150	4.0	N.A
28/2/2022	1.42388	103.75243	50	120	N.A	N.A
28/2/2022	1.42386	103.75242	40	90	N.A	N.A
28/2/2022	1.42382	103.75242	60	90	N.A	N.A
28/2/2022	1.42381	103.75241	60	200	N.A	N.A
4/3/2022	1.41665	103.75396	120	100	8.0	2 holes, 1 small, 1 big mound
4/3/2022	1.41679	103.75399	36	39	4.5	Crab (ran into the hole)
4/3/2022	1.41701	103.75399	32	38	N.A	N.A
4/3/2022	1.41708	103.75393	23	37	N.A	N.A
4/3/2022	1.41751	103.75381	4	20	N.A	N.A

Date	Latitude	Longitude	Height (cm)	Diameter (cm)	Mouth Diameter (cm)	Remarks
4/3/2022	1.41750	103.75384	50	150	N.A	N.A
4/3/2022	1.41757	103.75386	60	125	5.0	Many crab holes
4/3/2022	1.41762	103.75383	34	60	6.0	N.A
4/3/2022	1.41777	103.75380	55	50	N.A	Plants growing
4/3/2022	1.41778	103.75380	4	60	N.A	N.A
4/3/2022	1.41790	103.75377	65	94	3.0	Lokan
4/3/2022	1.41788	103.75376	85	74	6.5	N.A
4/3/2022	1.41803	103.75375	14	57	N.A	N.A
4/3/2022	1.41805	103.75371	24	85	N.A	N.A
4/3/2022	1.41813	103.75372	50	60	N.A	N.A
4/3/2022	1.41816	103.75375	20	50	5.0	N.A
4/3/2022	1.41816	103.75373	27	50	3.0	N.A
4/3/2022	1.41817	103.75373	60	105	4.0	Crabs
4/3/2022	1.41823	103.75367	30	110	6.0	Crabs
4/3/2022	1.41830	103.75369	10	16	N.A	N.A
4/3/2022	1.41835	103.75367	80	100	7.0	Crabs and ants
4/3/2022	1.41846	103.75361	25	263	2.0	Plants growing
4/3/2022	1.41841	103.75363	90	180	10.0	2 active mouths (split)
4/3/2022	1.41841	103.75363	90	180	10.0	2 active mouths (split)
4/3/2022	1.41849	103.75362	30	75	N.A	Plants growing
4/3/2022	1.41852	103.75364	80	105	3.0	small crab holes, plants growing
4/3/2022	1.41870	103.75367	27	110	4.0	Crab holes
4/3/2022	1.41872	103.75365	32	110	7.0	N.A
4/3/2022	1.41892	103.75361	10	80	8.0	N.A
4/3/2022	1.41898	103.75361	50	110	5.0	N.A
4/3/2022	1.41901	103.75359	45	95	5.0	N.A
4/3/2022	1.41911	103.75357	25	55	6.0	N.A
4/3/2022	1.41911	103.75358	60	70	4.0	N.A
4/3/2022	1.41913	103.75359	70	70	5.0	N.A
4/3/2022	1.41919	103.75358	30	50	5.0	N.A
4/3/2022	1.41918	103.75358	30	75	4.0	N.A
4/3/2022	1.41932	103.75355	30	50	8.0	N.A
4/3/2022	1.41936	103.75354	40	60	N.A	N.A
4/3/2022	1.41950	103.75350	25	35	N.A	N.A
4/3/2022	1.41949	103.75355	40	85	7.0	N.A
4/3/2022	1.41957	103.75350	110	150	8.0	N.A
4/3/2022	1.41958	103.75352	40	70	10.0	N.A
4/3/2022	1.41956	103.75353	40	85	3.0	N.A
4/3/2022	1.41961	103.75351	35	110	4.5	a lot of holes
4/3/2022	1.41978	103.75349	25	80	6.0	N.A
4/3/2022	1.41990	103.75351	20	50	N.A	N.A
4/3/2022	1.41995	103.75347	25	40	3.0	N.A
4/3/2022	1.42003	103.75342	57	75	7.0	Onch slug, ants, Ellobium
4/3/2022	1.42015	103.75344	30	100	N.A	N.A
4/3/2022	1.42102	103.75327	40	75	N.A	N.A
4/3/2022	1.42101	103.75327	25	47	N.A	N.A
4/3/2022	1.42107	103.75327	55	180	N.A	Crabs, plants growing - took a pic
4/3/2022	1.42109	103.75328	20	35	9.0	N.A
4/3/2022	1.42143	103.75319	90	45	N.A	N.A
4/3/2022	1.42146	103.75317	60	100	N.A	N.A
4/3/2022	1.42158	103.75319	40	140	N.A	N.A
4/3/2022	1.42166	103.75320	30	150	N.A	N.A
4/3/2022	1.42172	103.75318	35	100	N.A	N.A
4/3/2022	1.42174	103.75316	30	50	N.A	N.A
4/3/2022	1.42184	103.75314	40	87	N.A	N.A
4/3/2022	1.42185	103.75316	45	110	4.0	N.A
4/3/2022	1.42189	103.75313	35	80	5.0	N.A
4/3/2022	1.42197	103.75312	25	70	N.A	N.A

Date	Latitude	Longitude	Height (cm)	Diameter (cm)	Mouth Diameter (cm)	Remarks
4/3/2022	1.42196	103.75310	28	45	N.A	N.A
4/3/2022	1.42201	103.75310	60	200	N.A	N.A
8/3/2022	1.42271	103.75298	7	50	N.A	N.A
8/3/2022	1.42271	103.75298	7	33	N.A	N.A
8/3/2022	1.42275	103.75300	18	85	7.0	N.A
8/3/2022	1.42275	103.75300	20	50	N.A	N.A
8/3/2022	1.42275	103.75300	23	40	N.A	N.A
8/3/2022	1.42287	103.75304	20	40	5.0	N.A
8/3/2022	1.42287	103.75304	8	60	7.0	N.A
8/3/2022	1.42287	103.75304	23	40	N.A	N.A
8/3/2022	1.42287	103.75304	15	45	N.A	N.A
8/3/2022	1.42329	103.75295	20	60	5.0	N.A
8/3/2022	1.42327	103.75286	30	80	N.A	N.A
8/3/2022	1.42327	103.75286	40	80	N.A	N.A
8/3/2022	1.42327	103.75286	50	80	N.A	N.A
8/3/2022	1.42337	103.75295	23	90	2.0	N.A
8/3/2022	1.42340	103.75291	30	90	6.0	N.A
8/3/2022	1.42342	103.75293	55	60	3.0	N.A
8/3/2022	1.42368	103.75284	30	50	2.0	N.A
8/3/2022	1.42368	103.75284	35	55	N.A	N.A
8/3/2022	1.42368	103.75284	28	70	5.0	N.A
8/3/2022	1.42368	103.75284	30	50	9.0	N.A
8/3/2022	1.42368	103.75284	28	55	N.A	N.A
8/3/2022	1.42368	103.75284	30	50	N.A	N.A
8/3/2022	1.42368	103.75284	18	55	N.A	N.A
8/3/2022	1.42368	103.75284	20	80	N.A	N.A
8/3/2022	1.42376	103.75288	24	35	N.A	N.A
8/3/2022	1.42385	103.75287	80	100	N.A	N.A
8/3/2022	1.42446	103.75279	30	60	6.0	N.A
8/3/2022	1.42446	103.75279	60	120	7.0	N.A
8/3/2022	1.42446	103.75279	40	80	9.0	N.A
8/3/2022	1.42446	103.75279	40	80	9.0	N.A
8/3/2022	1.42446	103.75279	50	110	N.A	N.A
8/3/2022	1.42446	103.75279	35	55	N.A	N.A
8/3/2022	1.42460	103.75268	35	120	4.0	N.A
8/3/2022	1.42460	103.75269	25	80	6.0	N.A
8/3/2022	1.42460	103.75271	50	55	6.0	N.A
8/3/2022	1.42481	103.75274	25	25	N.A	N.A
8/3/2022	1.42481	103.75274	35	40	N.A	N.A
8/3/2022	1.42474	103.75270	30	45	N.A	N.A
8/3/2022	1.42474	103.75270	18	18	N.A	N.A
8/3/2022	1.42474	103.75270	30	100	N.A	N.A
8/3/2022	1.42487	103.75265	30	30	2.0	N.A
8/3/2022	1.42491	103.75265	30	60	6.0	N.A
8/3/2022	1.42519	103.75263	40	45	7.0	N.A
8/3/2022	1.42526	103.75260	60	120	4.0	N.A
8/3/2022	1.42597	103.75252	25	70	5.0	N.A
8/3/2022	1.42608	103.75250	8	20	N.A	N.A
8/3/2022	1.42766	103.75221	16	25	6.0	N.A
8/3/2022	1.43355	103.75267	170	120	5.0	N.A
8/3/2022	1.43355	103.75267	120	60	N.A	N.A
8/3/2022	1.43300	103.75243	40	20	4.0	N.A
8/3/2022	1.43300	103.75243	170	150	5.0	N.A
8/3/2022	1.43297	103.75242	170	50	2.0	N.A
8/3/2022	1.43297	103.75242	150	20	N.A	N.A
8/3/2022	1.43297	103.75242	180	40	N.A	N.A
8/3/2022	1.43233	103.75222	160	70	5.0	N.A
8/3/2022	1.43233	103.75222	170	70	6.0	N.A
8/3/2022	1.43218	103.75213	120	70	2.0	N.A
8/3/2022	1.43218	103.75213	70	10	N.A	N.A

Date	Latitude	Longitude	Height (cm)	Diameter (cm)	Mouth Diameter (cm)	Remarks
8/3/2022	1.42898	103.75204	130	30	2.0	N.A
8/3/2022	1.42898	103.75204	100	30	N.A	N.A
8/3/2022	1.42822	103.75215	50	50	2.0	N.A
8/3/2022	1.42822	103.75215	40	50	2.0	N.A
8/3/2022	1.42822	103.75215	20	30	N.A	N.A
8/3/2022	1.42797	103.75219	60	70	2.0	N.A
8/3/2022	1.43455	103.75301	50	40	2.0	Estimate as too steep to go down
8/3/2022	1.43455	103.75301	70	120	3.0	Estimate as too steep to go down
8/3/2022	1.43455	103.75301	100	100	N.A	Estimate as too steep to go down
8/3/2022	1.43455	103.75301	70	40	N.A	Estimate as too steep to go down
8/3/2022	1.43428	103.75295	40	40	2.0	N.A
8/3/2022	1.43428	103.75295	70	50	3.0	N.A

Date	Activity	Time in	Time out
29-Nov-21	AM survey (bird, herp, mammal)	07:00	08:15
8-Dec-21	AM survey (bird, herp, mammal)	07:14	08:50
10-Dec-21	AM survey (bird, mammal)	07:02	08:30
13-Dec-21	AM survey (bird, herp, mammal)	06:55	08:00
14-Dec-21	AM survey (herp)	06:57	08:02
15-Dec-21	AM survey (bird, herp, mammal)	07:05	08:40
16-Dec-21	AM survey (bird, mammal)	07:03	09:30
12-Jan-22	Fish trap deployment	08:30	12:00
12-Jan-22	AM survey (odonate)	09:00	12:00
13-Jan-22	Fish trap retrieval	09:30	12:20
17-Jan-22	PM survey (bird, herp, mammal)	20:00	23:00
18-Jan-22	AM survey (odonate, butt)	09:00	12:00
18-Jan-22	Mudflat survey	16:10	19:10
20-Jan-22	AM survey (butt)	09:00	11:45
21-Jan-22	AM survey (butt)	09:00	10:15
21-Jan-22	PM survey (bird, herp, mammal)	20:00	23:00
21-Jan-22	Mudflat survey	17:00	19:10
24-Jan-22	PM survey (bird, herp, mammal)	19:52	21:12
25-Jan-22	AM survey (herp)	07:09	08:25
25-Jan-22	PM survey (bird, herp, mammal)	19:55	21:42
26-Jan-22	PM survey (bird, herp, mammal)	19:55	22:30
7-Feb-22	AM survey (odonate, butt)	09:15	11:30
7-Feb-22	Fish trapping (deployment) + tray netting	08:00	11:30
8-Feb-22	Fish survey	08:30	11:30
9-Feb-22	AM survey (odonate, butt)	09:05	12:20
9-Feb-22	Fish survey	08:00	12:00
12-Feb-22	AM survey (odonate, butt)	09:11	11:47
14-Feb-22	AM survey (odo)	09:10	11:00
15-Feb-22	Mudflat survey	15:00	19:00
18-Feb-22	Mudflat survey	15:00	19:00
21-Feb-22	PM survey (bird, herp, mammal)	19:48	21:10
22-Feb-22	Fish trap deployment	13:00	14:30
24-Feb-22	Roost emergence	18:30	21:00
24-Feb-22	Fish trap retrieval	14:00	15:00
25-Feb-22	Bat trapping	21:30	21:00
15-Mar-22	Roost emergence	17:45	19:45

Appendix I

Camera trap data

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT01	23/2/21	8:33:54	IMG_0019.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT01	23/2/21	8:34:20	IMG_0020.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT01	23/2/21	15:48:02	IMG_0022.AVI	Mammal	Canis lupus familiaris	2	
CT01	24/2/21	0:11:44	IMG_0025.AVI	Mammal	Canis lupus familiaris	1	
CT01	24/2/21	7:44:34	IMG_0026.AVI	Mammal	Callosciurus notatus	1	
CT01	24/2/21	9:26:58	IMG_0023.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT01	24/2/21	9:34:24	IMG_0024.AVI	Mammal	Callosciurus notatus	1	
CT01	25/2/21	15:40:52	IMG_0029.AVI	Bird	Acridotheres javanicus	2	
CT01	28/2/21	2:37:10	IMG_0049.AVI	Mammal	Canis lupus familiaris	3	
CT01	28/2/21	10:42:52	IMG_0046.AVI	Bird	Acridotheres javanicus	7	
CT01	28/2/21	14:15:42	IMG_0048.AVI	Bird	Acridotheres javanicus	5	
CT01	2/3/21	9:53:40	IMG_0050.AVI	Mammal	Callosciurus notatus	1	
CT01	2/3/21	10:10:56	IMG_0051.AVI	Mammal	Callosciurus notatus	1	
CT01	3/3/21	6:55:26	IMG_0057.AVI	Mammal	Callosciurus notatus	1	
CT01	3/3/21	9:21:04	IMG_0054.AVI	Mammal	Callosciurus notatus	1	
CT01	3/3/21	9:25:14	IMG_0055.AVI	Mammal	Callosciurus notatus	1	
CT01	3/3/21	18:24:22	IMG_0056.AVI	Mammal	Callosciurus notatus	1	
CT01	4/3/21	7:00:52	IMG_0060.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT01	4/3/21	14:21:52	IMG_0058.AVI	Mammal	Callosciurus notatus	1	
CT01	4/3/21	19:20:32	IMG_0059.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT01	5/3/21	8:52:22	IMG_0062.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT01	9/3/21	8:58:08	IMG_0006.AVI	Mammal	Callosciurus notatus	1	
CT01	9/3/21	10:33:28	IMG_0007.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT01	10/3/21	9:54:56	IMG_0008.AVI	Bird	Acridotheres javanicus	1	
CT01	10/3/21	9:58:32	IMG_0010.AVI	Bird	Acridotheres javanicus	4	
CT01	10/3/21	10:04:10	IMG_0011.AVI	Bird	Acridotheres javanicus	6	
CT01	10/3/21	10:05:12	IMG_0012.AVI	Bird	Acridotheres javanicus	1	
CT01	10/3/21	10:07:10	IMG_0013.AVI	Bird	Acridotheres javanicus	1	
CT01	11/3/21	11:40:34	IMG_0017.AVI	Mammal	Callosciurus notatus	1	
CT01	14/3/21	10:39:06	IMG_0019.AVI	Mammal	Callosciurus notatus	1	
CT01	14/3/21	11:38:00	IMG_0020.AVI	Mammal	Callosciurus notatus	1	
CT01	17/3/21	7:43:20	IMG_0022.AVI	Mammal	Callosciurus notatus	1	
CT01	20/3/21	9:51:40	IMG_0024.AVI	Mammal	Callosciurus notatus	1	
CT01	21/3/21	7:10:34	IMG_0025.AVI	Mammal	Callosciurus notatus	1	
CT01	22/3/21	7:04:34	IMG_0026.AVI	Mammal	Callosciurus notatus	2	
CT01	23/3/21	7:00:54	IMG_0030.AVI	Mammal	Callosciurus notatus	1	
CT01	24/3/21	6:59:54	IMG_0031.AVI	Mammal	Callosciurus notatus	1	
CT01	25/3/21	6:50:42	IMG_0032.AVI	Mammal	Callosciurus notatus	1	
CT01	26/3/21	5:48:30	IMG_0033.AVI	Mammal	Callosciurus notatus	1	
CT01	27/3/21	6:30:50	IMG_0035.AVI	Mammal	Callosciurus notatus	1	
CT01	27/3/21	11:39:10	IMG_0034.AVI	Mammal	Callosciurus notatus	1	
CT01	28/3/21	6:51:18	IMG_0039.AVI	Mammal	Callosciurus notatus	1	
CT01	29/3/21	6:59:24	IMG_0041.AVI	Mammal	Callosciurus notatus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT01	30/3/21	6:26:50	IMG_0045.AVI	Mammal	Paradoxurus musangus	1	
CT01	30/3/21	11:58:12	IMG_0043.AVI	Mammal	Canis lupus familiaris	2	
CT01	30/3/21	21:39:52	IMG_0044.AVI	Mammal	Paradoxurus musangus	1	
CT01	31/3/21	20:20:26	IMG_0046.AVI	Mammal	Paradoxurus musangus	1	
CT01	1/4/21	6:37:56	IMG_0047.AVI	Mammal	Callosciurus notatus	1	
CT01	1/4/21	7:03:14	IMG_0048.AVI	Mammal	Callosciurus notatus	1	
CT01	3/4/21	2:46:50	IMG_0049.AVI	Mammal	Canis lupus familiaris	1	
CT01	4/4/21	6:43:24	IMG_0051.AVI	Mammal	Callosciurus notatus	1	
CT01	4/4/21	16:30:22	IMG_0050.AVI	Mammal	Callosciurus notatus	1	
CT01	5/4/21	10:51:10	IMG_0052.AVI	Mammal	Callosciurus notatus	1	
CT01	5/4/21	10:51:46	IMG_0053.AVI	Mammal	Callosciurus notatus	1	
CT01	6/4/21	6:46:50	IMG_0056.AVI	Mammal	Callosciurus notatus	1	
CT01	6/4/21	9:03:06	IMG_0055.AVI	Mammal	Callosciurus notatus	1	
CT01	7/4/21	6:49:24	IMG_0058.AVI	Mammal	Callosciurus notatus	1	
CT01	7/4/21	10:39:10	IMG_0057.AVI	Mammal	Callosciurus notatus	1	
CT01	8/4/21	7:00:48	IMG_0060.AVI	Mammal	Callosciurus notatus	1	
CT01	8/4/21	7:02:42	IMG_0061.AVI	Mammal	Callosciurus notatus	1	
CT01	8/4/21	9:38:56	IMG_0059.AVI	Mammal	Callosciurus notatus	1	
CT01	9/4/21	2:55:18	IMG_0006.AVI	Mammal	Paradoxurus musangus	1	
CT01	9/4/21	6:40:14	IMG_0007.AVI	Mammal	Callosciurus notatus	1	
CT01	9/4/21	6:48:44	IMG_0008.AVI	Mammal	Callosciurus notatus	1	
CT01	9/4/21	6:49:36	IMG_0009.AVI	Mammal	Callosciurus notatus	1	
CT01	9/4/21	13:11:06	IMG_0005.AVI	Mammal	Canis lupus familiaris	1	
CT01	10/4/21	7:15:08	IMG_0011.AVI	Mammal	Callosciurus notatus	1	
CT01	10/4/21	11:36:12	IMG_0010.AVI	Mammal	Callosciurus notatus	1	
CT01	11/4/21	6:51:36	IMG_0012.AVI	Mammal	Callosciurus notatus	1	
CT01	12/4/21	7:04:58	IMG_0015.AVI	Mammal	Callosciurus notatus	1	
CT01	12/4/21	10:57:34	IMG_0013.AVI	Mammal	Callosciurus notatus	1	
CT01	12/4/21	11:02:30	IMG_0014.AVI	Mammal	Callosciurus notatus	1	
CT01	14/4/21	9:12:12	IMG_0018.AVI	Mammal	Callosciurus notatus	1	
CT01	15/4/21	7:33:02	IMG_0020.AVI	N.A	Unidentified sp.	1	
CT01	15/4/21	7:35:56	IMG_0021.AVI	Mammal	Callosciurus notatus	1	
CT01	16/4/21	7:30:58	IMG_0023.AVI	Mammal	Callosciurus notatus	1	
CT01	16/4/21	11:26:20	IMG_0022.AVI	Mammal	Canis lupus familiaris	2	
CT01	19/4/21	7:27:56	IMG_0026.AVI	Mammal	Callosciurus notatus	1	
CT01	19/4/21	15:12:30	IMG_0025.AVI	Mammal	Callosciurus notatus	1	
CT01	21/4/21	7:25:16	IMG_0027.AVI	Mammal	Callosciurus notatus	1	
CT01	22/4/21	17:11:38	IMG_0028.AVI	Mammal	Callosciurus notatus	1	
CT01	24/4/21	12:45:30	IMG_0031.AVI	Mammal	Callosciurus notatus	1	
CT01	26/4/21	8:36:12	IMG_0032.AVI	Mammal	Callosciurus notatus	1	
CT02	27/2/21	11:13:06	IMG_0043.AVI	N.A	Unidentified sp.	1	Possibly do
CT02	2/3/21	10:06:24	IMG_0080.AVI	Bird	Acridotheres javanicus	3	
CT02	2/3/21	10:06:52	IMG_0081.AVI	Bird	Acridotheres javanicus	3	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT02	2/3/21	10:09:18	IMG_0082.AVI	Bird	Acridotheres javanicus	3	
CT02	2/3/21	10:18:20	IMG_0088.AVI	Bird	Acridotheres javanicus	5	
CT02	2/3/21	17:34:48	IMG_0118.AVI	Bird	Acridotheres javanicus	3	
CT02	3/3/21	13:00:22	IMG_0183.AVI	Bird	Acridotheres javanicus	2	
CT02	3/3/21	14:13:24	IMG_0187.AVI	Bird	Acridotheres javanicus	2	
CT02	3/3/21	18:39:40	IMG_0192.AVI	Bird	Acridotheres javanicus	5	
CT02	9/3/21	16:40:38	IMG_0008.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	9/3/21	16:41:08	IMG_0009.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	9/3/21	16:46:00	IMG_0010.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	9/3/21	16:47:06	IMG_0011.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	9/3/21	16:47:28	IMG_0012.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	9/3/21	16:48:34	IMG_0013.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	9/3/21	16:48:56	IMG_0014.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	9/3/21	16:50:12	IMG_0015.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	9/3/21	16:51:22	IMG_0016.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	9/3/21	16:53:42	IMG_0018.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	9/3/21	16:54:54	IMG_0019.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	10:19:30	IMG_0023.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	10:21:12	IMG_0026.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	10:21:34	IMG_0027.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	10:22:34	IMG_0028.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	10:22:54	IMG_0029.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	10:25:44	IMG_0030.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	10:26:06	IMG_0031.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	10:27:26	IMG_0032.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	10:27:46	IMG_0033.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	10:33:48	IMG_0034.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	10:34:12	IMG_0035.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	11:38:04	IMG_0038.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	14:22:30	IMG_0040.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	15:41:38	IMG_0042.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	15:45:20	IMG_0043.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	15:46:24	IMG_0044.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	15:52:30	IMG_0048.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	15:52:58	IMG_0049.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	15:57:30	IMG_0050.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	16:01:18	IMG_0051.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	16:01:46	IMG_0052.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	16:10:02	IMG_0053.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	16:10:40	IMG_0054.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	16:13:10	IMG_0055.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	16:16:32	IMG_0056.AVI	Reptile	Calotes versicolor	1	
CT02	10/3/21	16:29:44	IMG_0057.AVI	Bird	Acridotheres javanicus	1	Following w

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT02	10/3/21	16:43:30	IMG_0058.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	16:43:52	IMG_0059.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	16:47:24	IMG_0060.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	17:55:14	IMG_0061.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	18:03:08	IMG_0062.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	18:03:32	IMG_0063.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	10/3/21	18:03:56	IMG_0064.AVI	Bird	Acridotheres javanicus	1	Following w
CT02	12/3/21	13:33:36	IMG_0065.AVI	Mammal	Callosciurus notatus	1	
CT02	12/3/21	13:34:22	IMG_0067.AVI	Mammal	Callosciurus notatus	1	
CT02	16/3/21	12:55:12	IMG_0072.AVI	Mammal	Callosciurus notatus	1	
CT02	16/3/21	15:48:40	IMG_0073.AVI	Mammal	Callosciurus notatus	1	
CT02	16/3/21	15:49:02	IMG_0074.AVI	Mammal	Callosciurus notatus	1	
CT02	16/3/21	15:49:26	IMG_0075.AVI	Mammal	Callosciurus notatus	1	
CT02	9/4/21	13:16:28	IMG_0007.AVI	Mammal	Callosciurus notatus	1	
CT02	11/4/21	15:49:32	IMG_0008.AVI	Mammal	Callosciurus notatus	1	
CT03	22/2/21	18:30:14	IMG_0014.AVI	Mammal	Callosciurus notatus	1	
CT03	27/2/21	18:14:40	IMG_0020.AVI	Mammal	Callosciurus notatus	1	
CT03	27/2/21	18:51:06	IMG_0021.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT03	28/2/21	12:33:36	IMG_0023.AVI	Mammal	Callosciurus notatus	1	
CT03	28/2/21	18:08:38	IMG_0024.AVI	Mammal	Callosciurus notatus	1	
CT03	1/3/21	8:28:30	IMG_0025.AVI	N.A	Unidentified sp.	1	
CT03	2/3/21	1:17:56	IMG_0031.AVI	Mammal	Paradoxurus musangus	1	
CT03	2/3/21	7:22:18	IMG_0032.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT03	3/3/21	9:19:12	IMG_0033.AVI	N.A	Unidentified sp.	1	
CT03	4/3/21	7:05:18	IMG_0037.AVI	Mammal	Callosciurus notatus	1	
CT03	4/3/21	18:39:34	IMG_0036.AVI	Mammal	Callosciurus notatus	1	
CT03	5/3/21	6:55:48	IMG_0043.AVI	Mammal	Callosciurus notatus	1	
CT03	5/3/21	17:30:44	IMG_0041.AVI	Bird	Acridotheres javanicus	4	
CT03	5/3/21	19:19:38	IMG_0042.AVI	N.A	Unidentified sp.	1	
CT03	7/3/21	5:27:46	IMG_0054.AVI	Mammal	Rattus sp.	1	
CT03	7/3/21	10:56:18	IMG_0049.AVI	Bird	Acridotheres javanicus	13	
CT03	7/3/21	10:56:48	IMG_0050.AVI	Bird	Acridotheres javanicus	23	
CT03	8/3/21	5:52:02	IMG_0008.AVI	Mammal	Rattus tanezumi	1	
CT03	9/3/21	0:44:38	IMG_0024.AVI	Mammal	Rattus tanezumi	1	
CT03	9/3/21	6:31:34	IMG_0025.AVI	Mammal	Rattus tanezumi	1	
CT03	9/3/21	12:58:06	IMG_0011.AVI	Mammal	Callosciurus notatus	1	
CT03	9/3/21	13:54:24	IMG_0012.AVI	Mammal	Callosciurus notatus	1	
CT03	9/3/21	18:46:42	IMG_0023.AVI	Mammal	Callosciurus notatus	1	
CT03	10/3/21	2:32:54	IMG_0075.AVI	Mammal	Canis lupus familiaris	1	
CT03	10/3/21	8:12:46	IMG_0026.AVI	Mammal	Callosciurus notatus	1	
CT03	11/3/21	0:32:18	IMG_0090.AVI	Mammal	Rattus tanezumi	1	
CT03	11/3/21	12:25:46	IMG_0078.AVI	Mammal	Callosciurus notatus	1	
CT03	11/3/21	17:31:28	IMG_0088.AVI	Mammal	Callosciurus notatus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT03	11/3/21	20:05:12	IMG_0089.AVI	Mammal	Paradoxurus musangus	3	
CT03	12/3/21	3:32:38	IMG_0093.AVI	Mammal	Paradoxurus musangus	1	
CT03	12/3/21	11:36:54	IMG_0091.AVI	Mammal	Callosciurus notatus	1	
CT03	12/3/21	17:48:00	IMG_0092.AVI	Mammal	Callosciurus notatus	1	
CT03	13/3/21	11:21:06	IMG_0094.AVI	Reptile	Calotes versicolor	1	
CT03	13/3/21	11:58:16	IMG_0095.AVI	Mammal	Callosciurus notatus	1	
CT03	9/4/21	6:58:00	IMG_0006.AVI	Mammal	Callosciurus notatus	1	
CT03	9/4/21	11:32:52	IMG_0003.AVI	Bird	Acridotheres javanicus	7	
CT03	10/4/21	17:14:42	IMG_0012.AVI	Mammal	Callosciurus notatus	1	
CT03	10/4/21	18:15:22	IMG_0013.AVI	Mammal	Callosciurus notatus	1	
CT03	11/4/21	2:09:22	IMG_0018.AVI	N.A	Unidentified sp.	1	
CT03	11/4/21	7:53:28	IMG_0019.AVI	Mammal	Callosciurus notatus	1	
CT03	11/4/21	12:30:24	IMG_0015.AVI	N.A	Unidentified sp.	1	
CT03	11/4/21	21:07:06	IMG_0017.AVI	Mammal	Paradoxurus musangus	1	
CT03	13/4/21	9:42:08	IMG_0025.AVI	Mammal	Callosciurus notatus	1	
CT03	13/4/21	10:00:32	IMG_0026.AVI	Mammal	Callosciurus notatus	1	
CT03	14/4/21	9:33:44	IMG_0027.AVI	Mammal	Callosciurus notatus	1	
CT03	14/4/21	11:47:32	IMG_0028.AVI	Mammal	Callosciurus notatus	1	
CT03	16/4/21	7:32:48	IMG_0032.AVI	Mammal	Callosciurus notatus	1	
CT03	16/4/21	10:34:02	IMG_0029.AVI	Mammal	Callosciurus notatus	1	
CT03	16/4/21	16:34:52	IMG_0030.AVI	Mammal	Callosciurus notatus	1	
CT03	16/4/21	16:44:54	IMG_0031.AVI	Mammal	Callosciurus notatus	1	
CT03	19/4/21	18:10:40	IMG_0034.AVI	Mammal	Callosciurus notatus	1	
CT03	20/4/21	17:48:16	IMG_0036.AVI	Mammal	Callosciurus notatus	1	
CT03	21/4/21	7:07:00	IMG_0041.AVI	Mammal	Callosciurus notatus	1	
CT03	21/4/21	16:44:08	IMG_0040.AVI	N.A	Unidentified sp.	1	
CT03	23/4/21	17:08:46	IMG_0043.AVI	Mammal	Callosciurus notatus	1	
CT03	25/4/21	16:58:04	IMG_0044.AVI	Mammal	Callosciurus notatus	1	
CT04	22/2/21	11:58:22	IMG_0003.AVI	Mammal	Canis lupus familiaris	1	
CT04	22/2/21	21:01:26	IMG_0004.AVI	Mammal	Paradoxurus musangus	1	
CT04	24/2/21	0:23:40	IMG_0009.AVI	Mammal	Canis lupus familiaris	1	
CT04	24/2/21	18:16:54	IMG_0007.AVI	Mammal	Canis lupus familiaris	1	
CT04	24/2/21	18:17:20	IMG_0008.AVI	Mammal	Canis lupus familiaris	1	
CT04	26/2/21	14:56:30	IMG_0010.AVI	Mammal	Canis lupus familiaris	1	
CT04	28/2/21	3:01:58	IMG_0013.AVI	Mammal	Canis lupus familiaris	2	
CT04	28/2/21	17:14:34	IMG_0012.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT04	3/3/21	14:04:58	IMG_0014.AVI	Mammal	Canis lupus familiaris	3	
CT04	4/3/21	9:06:42	IMG_0015.AVI	Mammal	Canis lupus familiaris	1	
CT04	4/3/21	23:28:30	IMG_0016.AVI	Mammal	Canis lupus familiaris	3	
CT04	5/3/21	8:35:42	IMG_0017.AVI	N.A	Unidentified sp.	1	
CT04	7/3/21	12:09:44	IMG_0040.AVI	N.A	Unidentified sp.	1	
CT04	8/3/21	0:53:34	IMG_0013.AVI	Mammal	Canis lupus familiaris	1	
CT04	8/3/21	17:14:08	IMG_0012.AVI	Mammal	Unidentified squirrel or treeshrew	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT04	10/3/21	6:57:14	IMG_0016.AVI	Mammal	Canis lupus familiaris	2	
CT04	10/3/21	6:57:36	IMG_0017.AVI	Mammal	Canis lupus familiaris	2	
CT04	10/3/21	8:57:12	IMG_0014.AVI	Mammal	Canis lupus familiaris	1	
CT04	10/3/21	15:57:24	IMG_0015.AVI	Mammal	Canis lupus familiaris	1	
CT04	13/3/21	9:15:36	IMG_0018.AVI	Mammal	Canis lupus familiaris	1	
CT04	18/3/21	16:40:14	IMG_0029.AVI	Mammal	Canis lupus familiaris	1	
CT04	18/3/21	16:54:48	IMG_0030.AVI	Mammal	Canis lupus familiaris	1	
CT04	21/3/21	22:06:04	IMG_0043.AVI	Mammal	Canis lupus familiaris	1	
CT04	22/3/21	1:17:38	IMG_0044.AVI	Mammal	Canis lupus familiaris	1	
CT04	23/3/21	13:08:04	IMG_0048.AVI	Bird	Todiramphus chloris	1	
CT04	30/3/21	12:05:08	IMG_0050.AVI	Mammal	Canis lupus familiaris	3	
CT04	11/4/21	16:41:58	IMG_0005.AVI	Mammal	Callosciurus notatus	1	
CT04	11/4/21	16:42:20	IMG_0006.AVI	Mammal	Callosciurus notatus	1	
CT04	16/4/21	11:34:48	IMG_0021.AVI	Mammal	Canis lupus familiaris	1	
CT05	11/1/21	3:57:30	IMG_0028.AVI	Mammal	Suncus murinus	1	
CT05	13/1/21	11:58:56	IMG_0071.AVI	N.A	Unidentified sp.	1	
CT05	13/1/21	12:00:28	IMG_0073.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT05	13/1/21	12:07:24	IMG_0076.AVI	N.A	Unidentified sp.	1	
CT05	13/1/21	17:08:04	IMG_0077.AVI	N.A	Unidentified sp.	1	
CT05	15/1/21	13:03:28	IMG_0080.AVI	Mammal	Callosciurus notatus	1	
CT05	15/1/21	13:04:54	IMG_0081.AVI	Mammal	Callosciurus notatus	1	
CT05	15/1/21	14:36:12	IMG_0084.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT05	15/1/21	14:37:00	IMG_0086.AVI	Mammal	Callosciurus notatus	1	
CT05	15/1/21	14:37:34	IMG_0087.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT05	15/1/21	14:38:24	IMG_0089.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT05	17/1/21	18:53:50	IMG_0133.AVI	Bird	Amaurornis phoenicurus	1	
CT05	18/1/21	14:26:14	IMG_0135.AVI	N.A	Unidentified sp.	1	
CT05	20/1/21	4:46:56	IMG_0138.AVI	Bat	Unidentified bat	1	
CT05	20/1/21	4:48:54	IMG_0139.AVI	Bat	Unidentified bat	1	
CT05	20/1/21	4:49:16	IMG_0140.AVI	Bat	Unidentified bat	1	
CT05	21/1/21	15:47:48	IMG_0145.AVI	Bird	Amaurornis phoenicurus	1	
CT05	21/1/21	19:18:22	IMG_0146.AVI	Mammal	Canis lupus familiaris	1	
CT05	22/1/21	15:24:52	IMG_0148.AVI	N.A	Unidentified sp.	1	
CT05	22/1/21	15:27:52	IMG_0150.AVI	Mammal	Callosciurus notatus	1	
CT05	22/1/21	15:28:36	IMG_0151.AVI	Mammal	Callosciurus notatus	1	
CT05	22/1/21	15:29:22	IMG_0152.AVI	Mammal	Callosciurus notatus	1	
CT05	22/1/21	15:32:24	IMG_0154.AVI	Mammal	Callosciurus notatus	1	
CT05	22/1/21	15:34:16	IMG_0155.AVI	Mammal	Callosciurus notatus	1	
CT05	22/1/21	15:35:42	IMG_0156.AVI	Mammal	Callosciurus notatus	1	
CT05	22/1/21	15:39:26	IMG_0157.AVI	Mammal	Callosciurus notatus	1	
CT05	22/1/21	15:42:40	IMG_0158.AVI	Mammal	Callosciurus notatus	1	
CT05	22/1/21	15:45:52	IMG_0159.AVI	Mammal	Callosciurus notatus	1	
CT05	22/1/21	15:46:14	IMG_0160.AVI	Mammal	Callosciurus notatus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT05	22/1/21	15:47:48	IMG_0162.AVI	Mammal	Callosciurus notatus	1	
CT05	22/1/21	15:48:10	IMG_0163.AVI	Mammal	Callosciurus notatus	1	
CT05	22/1/21	15:49:32	IMG_0166.AVI	Mammal	Callosciurus notatus	1	
CT05	22/1/21	15:53:16	IMG_0167.AVI	Mammal	Callosciurus notatus	1	
CT05	22/1/21	15:54:16	IMG_0169.AVI	Mammal	Callosciurus notatus	1	
CT05	22/1/21	16:01:14	IMG_0172.AVI	Mammal	Callosciurus notatus	1	
CT05	22/1/21	16:02:12	IMG_0174.AVI	Mammal	Callosciurus notatus	1	
CT05	22/1/21	16:13:44	IMG_0175.AVI	Mammal	Callosciurus notatus	1	
CT05	22/1/21	16:29:14	IMG_0176.AVI	Mammal	Callosciurus notatus	1	
CT05	22/1/21	16:36:36	IMG_0177.AVI	Mammal	Callosciurus notatus	1	
CT05	25/1/21	4:32:08	IMG_0192.AVI	Bat	Unidentified bat	1	
CT05	25/1/21	9:57:36	IMG_0185.AVI	Bird	Amaurornis phoenicurus	1	
CT05	25/1/21	12:39:02	IMG_0187.AVI	Bird	Amaurornis phoenicurus	1	
CT05	25/1/21	12:39:24	IMG_0188.AVI	Bird	Amaurornis phoenicurus	1	
CT05	25/1/21	13:17:14	IMG_0189.AVI	Bird	Amaurornis phoenicurus	1	
CT05	25/1/21	17:18:24	IMG_0191.AVI	N.A	Unidentified sp.	1	
CT05	26/1/21	11:08:10	IMG_0193.AVI	Bird	Chalcophaps indica	1	
CT05	26/1/21	12:59:20	IMG_0194.AVI	Mammal	Callosciurus notatus	1	
CT05	26/1/21	13:00:26	IMG_0196.AVI	Mammal	Callosciurus notatus	1	
CT05	26/1/21	18:51:08	IMG_0198.AVI	Bird	Gallus gallus	1	
CT05	29/1/21	12:33:20	IMG_0199.AVI	Mammal	Callosciurus notatus	1	
CT05	29/1/21	16:04:28	IMG_0201.AVI	Mammal	Callosciurus notatus	1	
CT05	1/2/21	12:07:12	IMG_0204.AVI	N.A	Unidentified sp.	1	
CT05	6/2/21	8:53:12	IMG_0206.AVI	Bird	Amaurornis phoenicurus	1	
CT05	6/2/21	14:59:54	IMG_0207.AVI	Bird	Amaurornis phoenicurus	1	
CT05	7/2/21	8:39:08	IMG_0209.AVI	Bird	Amaurornis phoenicurus	1	
CT05	17/12/21	21:18:20	IMG_0008.AVI	Mammal	Suncus murinus	1	
CT05	17/12/21	21:19:50	IMG_0010.AVI	Mammal	Suncus murinus	1	
CT05	17/12/21	21:20:18	IMG_0011.AVI	Mammal	Suncus murinus	1	
CT05	18/12/21	14:16:16	IMG_0012.AVI	Reptile	Varanus salvator	1	
CT05	18/12/21	18:31:12	IMG_0014.AVI	Bird	Amaurornis phoenicurus	1	
CT05	18/12/21	20:17:14	IMG_0015.AVI	Mammal	Suncus murinus	1	
CT05	20/12/21	23:00:10	IMG_0017.AVI	Mammal	Suncus murinus	1	
CT05	21/12/21	11:00:22	IMG_0019.AVI	N.A	Unidentified sp.	1	
CT05	21/12/21	23:26:54	IMG_0021.AVI	Mammal	Suncus murinus	1	
CT05	22/12/21	2:16:34	IMG_0023.AVI	Mammal	Suncus murinus	1	
CT05	22/12/21	23:13:48	IMG_0022.AVI	Mammal	Suncus murinus	1	
CT05	25/12/21	15:17:02	IMG_0035.AVI	Bird	Amaurornis phoenicurus	1	
CT05	27/12/21	4:10:12	IMG_0083.AVI	Mammal	Suncus murinus	1	
CT05	27/12/21	16:27:48	IMG_0071.AVI	Mammal	Callosciurus notatus	1	
CT05	27/12/21	16:28:38	IMG_0072.AVI	Mammal	Callosciurus notatus	1	
CT05	27/12/21	16:29:24	IMG_0074.AVI	Mammal	Callosciurus notatus	1	
CT05	27/12/21	16:30:40	IMG_0075.AVI	Mammal	Callosciurus notatus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT05	27/12/21	16:31:26	IMG_0077.AVI	Mammal	Callosciurus notatus	1	
CT05	27/12/21	16:33:34	IMG_0079.AVI	Mammal	Callosciurus notatus	1	
CT05	27/12/21	16:37:40	IMG_0081.AVI	Mammal	Callosciurus notatus	1	
CT05	27/12/21	16:40:32	IMG_0082.AVI	Mammal	Callosciurus notatus	1	
CT05	28/12/21	12:45:32	IMG_0089.AVI	Mammal	Callosciurus notatus	1	
CT05	28/12/21	12:52:40	IMG_0091.AVI	Mammal	Callosciurus notatus	1	
CT05	28/12/21	12:53:30	IMG_0093.AVI	Mammal	Callosciurus notatus	2	
CT05	28/12/21	12:54:20	IMG_0095.AVI	Mammal	Callosciurus notatus	1	
CT05	28/12/21	13:02:32	IMG_0097.AVI	Mammal	Callosciurus notatus	1	
CT05	28/12/21	13:30:44	IMG_0099.AVI	Mammal	Callosciurus notatus	1	
CT05	29/12/21	11:19:46	IMG_0105.AVI	Bird	Amaurornis phoenicurus	1	
CT05	29/12/21	13:18:34	IMG_0106.AVI	Bird	Amaurornis phoenicurus	2	
CT05	29/12/21	13:19:10	IMG_0107.AVI	Bird	Amaurornis phoenicurus	1	
CT05	29/12/21	17:07:00	IMG_0108.AVI	Bird	Amaurornis phoenicurus	1	
CT05	29/12/21	17:08:20	IMG_0109.AVI	Bird	Amaurornis phoenicurus	1	
CT05	29/12/21	17:09:12	IMG_0111.AVI	Bird	Amaurornis phoenicurus	1	
CT05	29/12/21	17:25:12	IMG_0113.AVI	Bird	Amaurornis phoenicurus	1	
CT05	29/12/21	17:27:10	IMG_0114.AVI	Bird	Amaurornis phoenicurus	1	
CT05	30/12/21	11:09:36	IMG_0115.AVI	Mammal	Callosciurus notatus	1	
CT05	30/12/21	11:11:38	IMG_0116.AVI	Mammal	Callosciurus notatus	1	
CT05	30/12/21	11:12:10	IMG_0117.AVI	Mammal	Callosciurus notatus	1	
CT05	30/12/21	13:07:48	IMG_0119.AVI	Mammal	Callosciurus notatus	1	
CT05	30/12/21	13:08:14	IMG_0120.AVI	Mammal	Callosciurus notatus	1	
CT05	30/12/21	13:09:34	IMG_0121.AVI	Mammal	Callosciurus notatus	1	
CT05	30/12/21	13:14:04	IMG_0123.AVI	Mammal	Callosciurus notatus	1	
CT05	30/12/21	13:14:30	IMG_0124.AVI	Mammal	Callosciurus notatus	1	
CT05	30/12/21	22:09:34	IMG_0125.AVI	Mammal	Suncus murinus	1	
CT05	31/12/21	6:08:48	IMG_0126.AVI	Mammal	Unidentified mammal	1	
CT05	31/12/21	6:09:46	IMG_0127.AVI	Mammal	Unidentified mammal	1	
CT05	2/1/22	20:00:28	IMG_0128.AVI	Mammal	Suncus murinus	1	
CT05	3/1/22	8:45:46	IMG_0129.AVI	Bird	Amaurornis phoenicurus	1	
CT05	3/1/22	9:00:26	IMG_0130.AVI	Bird	Amaurornis phoenicurus	1	
CT05	3/1/22	14:12:48	IMG_0131.AVI	Bird	Amaurornis phoenicurus	1	
CT05	3/1/22	15:17:50	IMG_0132.AVI	Bird	Amaurornis phoenicurus	1	
CT05	3/1/22	15:28:46	IMG_0133.AVI	Bird	Amaurornis phoenicurus	1	
CT05	4/1/22	2:16:20	IMG_0138.AVI	Mammal	Suncus murinus	1	
CT05	4/1/22	9:01:36	IMG_0134.AVI	Reptile	Eutropis multifasciata	1	
CT05	4/1/22	18:31:08	IMG_0137.AVI	Bird	Rallina fasciata	1	
CT05	5/1/22	8:47:46	IMG_0139.AVI	Bird	Gallus gallus	1	
CT05	5/1/22	8:48:30	IMG_0141.AVI	Bird	Gallus gallus	2	
CT05	5/1/22	9:10:14	IMG_0143.AVI	Bird	Gallus gallus	1	
CT05	6/1/22	8:59:44	IMG_0144.AVI	Bird	Amaurornis phoenicurus	1	
CT05	7/1/22	0:19:24	IMG_0199.AVI	Mammal	Rattus sp.	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT05	7/1/22	0:20:26	IMG_0201.AVI	Mammal	Rattus sp.	1	
CT05	7/1/22	2:13:36	IMG_0202.AVI	Mammal	Rattus sp.	1	
CT05	7/1/22	10:25:30	IMG_0182.AVI	Mammal	Tupaia glis	1	
CT05	7/1/22	12:24:12	IMG_0185.AVI	Mammal	Callosciurus notatus	1	
CT05	7/1/22	12:29:00	IMG_0186.AVI	Mammal	Callosciurus notatus	1	
CT05	7/1/22	12:29:56	IMG_0187.AVI	Mammal	Callosciurus notatus	1	
CT05	7/1/22	12:31:02	IMG_0189.AVI	Mammal	Callosciurus notatus	1	
CT05	7/1/22	13:01:28	IMG_0190.AVI	Mammal	Callosciurus notatus	1	
CT05	7/1/22	13:05:10	IMG_0192.AVI	Mammal	Callosciurus notatus	1	
CT05	8/1/22	4:13:52	IMG_0256.AVI	Bat	Unidentified bat	1	
CT05	9/1/22	16:38:50	IMG_0268.AVI	Mammal	Callosciurus notatus	1	
CT05	9/1/22	16:41:40	IMG_0270.AVI	N.A	Unidentified sp.	1	
CT05	7/2/22	23:05:10	IMG_0003.AVI	Mammal	Suncus murinus	1	
CT05	8/2/22	4:49:12	IMG_0004.AVI	Mammal	Suncus murinus	1	
CT05	9/2/22	3:52:28	IMG_0010.AVI	Mammal	Rattus tanezumi	1	
CT05	9/2/22	7:16:56	IMG_0011.AVI	Mammal	Rattus sp.	1	
CT05	9/2/22	20:34:40	IMG_0007.AVI	Mammal	Suncus murinus	1	
CT05	9/2/22	23:51:20	IMG_0008.AVI	Mammal	Suncus murinus	1	
CT05	10/2/22	6:31:52	IMG_0014.AVI	Mammal	Suncus murinus	1	
CT05	10/2/22	13:39:32	IMG_0012.AVI	Bird	Amaurornis phoenicurus	1	
CT05	10/2/22	19:28:44	IMG_0013.AVI	Mammal	Rattus sp.	1	
CT05	11/2/22	12:54:40	IMG_0016.AVI	Mammal	Callosciurus notatus	1	
CT05	11/2/22	12:57:32	IMG_0017.AVI	Mammal	Callosciurus notatus	1	
CT05	11/2/22	23:22:52	IMG_0019.AVI	Mammal	Suncus murinus	1	
CT05	12/2/22	5:27:16	IMG_0068.AVI	Mammal	Suncus murinus	1	
CT05	12/2/22	6:51:04	IMG_0069.AVI	Mammal	Rattus sp.	1	
CT05	12/2/22	9:39:44	IMG_0020.AVI	Reptile	Eutropis multifasciata	1	
CT05	12/2/22	10:33:02	IMG_0021.AVI	Mammal	Unidentified mammal	1	
CT05	12/2/22	10:33:44	IMG_0022.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT05	12/2/22	10:40:10	IMG_0023.AVI	Mammal	Callosciurus notatus	1	
CT05	12/2/22	10:42:10	IMG_0024.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT05	12/2/22	10:42:48	IMG_0025.AVI	Mammal	Callosciurus notatus	1	
CT05	12/2/22	10:54:34	IMG_0026.AVI	Mammal	Callosciurus notatus	1	
CT05	13/2/22	16:17:22	IMG_0159.AVI	Mammal	Callosciurus notatus	1	
CT05	13/2/22	16:21:32	IMG_0167.AVI	Mammal	Callosciurus notatus	1	
CT05	13/2/22	16:22:10	IMG_0168.AVI	Mammal	Callosciurus notatus	1	
CT05	13/2/22	16:26:56	IMG_0176.AVI	Mammal	Callosciurus notatus	1	
CT05	13/2/22	16:27:18	IMG_0177.AVI	Mammal	Callosciurus notatus	1	
CT05	14/2/22	13:10:06	IMG_0245.AVI	Bird	Amaurornis phoenicurus	1	
CT05	15/2/22	7:23:22	IMG_0358.AVI	Mammal	Rattus tanezumi	1	
CT05	16/2/22	5:08:54	IMG_0362.AVI	Mammal	Rattus sp.	1	
CT05	16/2/22	6:56:18	IMG_0363.AVI	Mammal	Suncus murinus	1	
CT05	16/2/22	10:02:52	IMG_0359.AVI	Bird	Amaurornis phoenicurus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT05	16/2/22	19:27:00	IMG_0360.AVI	Mammal	Rattus tanezumi	1	
CT05	16/2/22	20:01:48	IMG_0361.AVI	Mammal	Suncus murinus	1	
CT05	17/2/22	6:20:58	IMG_0366.AVI	Mammal	Rattus tanezumi	1	
CT05	17/2/22	6:59:12	IMG_0367.AVI	Mammal	Suncus murinus	1	
CT05	17/2/22	10:35:50	IMG_0364.AVI	Mammal	Callosciurus notatus	1	
CT05	18/2/22	2:24:08	IMG_0372.AVI	Mammal	Rattus tanezumi	1	
CT05	18/2/22	8:58:06	IMG_0368.AVI	Mammal	Callosciurus notatus	1	
CT05	18/2/22	8:58:28	IMG_0369.AVI	Mammal	Callosciurus notatus	1	
CT05	18/2/22	9:07:44	IMG_0370.AVI	Mammal	Callosciurus notatus	1	
CT05	18/2/22	12:08:54	IMG_0371.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT05	19/2/22	10:05:40	IMG_0373.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT05	19/2/22	10:12:56	IMG_0375.AVI	Mammal	Callosciurus notatus	1	
CT05	19/2/22	13:55:18	IMG_0377.AVI	N.A	Unidentified sp.	1	
CT05	19/2/22	14:36:54	IMG_0378.AVI	Mammal	Callosciurus notatus	1	
CT05	19/2/22	14:37:56	IMG_0379.AVI	Mammal	Callosciurus notatus	1	
CT05	19/2/22	14:38:18	IMG_0380.AVI	Mammal	Callosciurus notatus	1	
CT05	19/2/22	15:05:50	IMG_0382.AVI	Mammal	Callosciurus notatus	1	
CT05	19/2/22	17:52:14	IMG_0383.AVI	N.A	Unidentified sp.	1	
CT05	20/2/22	7:55:16	IMG_0385.AVI	Mammal	Callosciurus notatus	1	
CT05	20/2/22	8:42:38	IMG_0384.AVI	Bird	Amaurornis phoenicurus	1	
CT05	21/2/22	6:17:50	IMG_0387.AVI	Mammal	Rattus tanezumi	1	
CT05	21/2/22	21:36:24	IMG_0386.AVI	Mammal	Suncus murinus	1	
CT06	10/1/21	0:54:56	IMG_0008.AVI	Mammal	Rattus tiomanicus	1	
CT06	10/1/21	6:23:46	IMG_0010.AVI	Mammal	Rattus sp.	2	
CT06	10/1/21	15:19:26	IMG_0005.AVI	Bird	Amaurornis phoenicurus	1	chicks_4
CT06	10/1/21	15:42:54	IMG_0006.AVI	Bird	Amaurornis phoenicurus	1	
CT06	11/1/21	8:01:32	IMG_0011.AVI	Bird	Amaurornis phoenicurus	1	
CT06	11/1/21	10:24:58	IMG_0013.AVI	Bird	Gallus gallus	1	
CT06	11/1/21	11:56:28	IMG_0014.AVI	Bird	Amaurornis phoenicurus	1	
CT06	11/1/21	12:11:12	IMG_0015.AVI	Bird	Amaurornis phoenicurus	1	
CT06	11/1/21	12:49:34	IMG_0016.AVI	Bird	Gallus gallus	2	
CT06	11/1/21	16:57:06	IMG_0017.AVI	Bird	Amaurornis phoenicurus	1	
CT06	11/1/21	16:57:28	IMG_0018.AVI	Bird	Amaurornis phoenicurus	1	
CT06	12/1/21	3:44:20	IMG_0020.AVI	Mammal	Rattus tiomanicus	1	
CT06	12/1/21	7:46:20	IMG_0022.AVI	Bird	Amaurornis phoenicurus	1	
CT06	14/1/21	6:08:16	IMG_0024.AVI	Mammal	Suncus murinus	1	
CT06	15/1/21	2:18:54	IMG_0032.AVI	Mammal	Rattus tanezumi	1	
CT06	15/1/21	2:20:30	IMG_0033.AVI	Mammal	Rattus tanezumi	1	
CT06	15/1/21	6:19:00	IMG_0034.AVI	Mammal	Suncus murinus	1	
CT06	15/1/21	15:25:10	IMG_0026.AVI	Bird	Gallus gallus	1	
CT06	15/1/21	15:27:32	IMG_0028.AVI	Bird	Gallus gallus	1	
CT06	15/1/21	18:42:30	IMG_0030.AVI	Bird	Amaurornis phoenicurus	1	
CT06	16/1/21	11:50:02	IMG_0035.AVI	Bird	Amaurornis phoenicurus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT06	17/1/21	3:39:44	IMG_0038.AVI	Mammal	Rattus sp.	1	
CT06	17/1/21	11:35:50	IMG_0036.AVI	Bird	Amaurornis phoenicurus	1	chick_1
CT06	17/1/21	23:43:50	IMG_0037.AVI	Mammal	Rattus tiomanicus	1	
CT06	18/1/21	9:53:42	IMG_0040.AVI	Bird	Amaurornis phoenicurus	1	
CT06	19/1/21	1:05:22	IMG_0044.AVI	Mammal	Rattus tanezumi	1	
CT06	19/1/21	6:59:08	IMG_0046.AVI	Mammal	Suncus murinus	1	
CT06	19/1/21	10:07:18	IMG_0041.AVI	Bird	Amaurornis phoenicurus	2	chicks_4
CT06	19/1/21	11:01:24	IMG_0042.AVI	Bird	Amaurornis phoenicurus	1	
CT06	19/1/21	14:30:18	IMG_0043.AVI	Bird	Amaurornis phoenicurus	1	
CT06	20/1/21	9:22:26	IMG_0047.AVI	Bird	Amaurornis phoenicurus	1	
CT06	20/1/21	9:55:44	IMG_0048.AVI	Bird	Gallus gallus	2	
CT06	20/1/21	9:56:46	IMG_0050.AVI	Bird	Gallus gallus	2	
CT06	20/1/21	9:58:04	IMG_0052.AVI	Bird	Gallus gallus	2	
CT06	20/1/21	9:58:26	IMG_0053.AVI	Bird	Gallus gallus	2	
CT06	20/1/21	9:59:26	IMG_0055.AVI	Bird	Gallus gallus	2	
CT06	20/1/21	10:02:26	IMG_0057.AVI	Bird	Gallus gallus	1	
CT06	20/1/21	10:09:04	IMG_0059.AVI	Bird	Gallus gallus	1	
CT06	20/1/21	10:09:24	IMG_0060.AVI	Bird	Gallus gallus	1	
CT06	20/1/21	10:11:36	IMG_0062.AVI	Bird	Gallus gallus	1	
CT06	20/1/21	10:12:40	IMG_0063.AVI	Bird	Amaurornis phoenicurus	1	
CT06	20/1/21	10:16:52	IMG_0064.AVI	Bird	Gallus gallus	1	
CT06	20/1/21	10:17:14	IMG_0065.AVI	Bird	Gallus gallus	1	
CT06	20/1/21	10:18:40	IMG_0066.AVI	Bird	Gallus gallus	1	
CT06	20/1/21	10:19:44	IMG_0067.AVI	Bird	Gallus gallus	1	
CT06	20/1/21	10:22:58	IMG_0068.AVI	Bird	Gallus gallus	1	
CT06	20/1/21	10:24:30	IMG_0069.AVI	Bird	Gallus gallus	1	
CT06	20/1/21	10:25:16	IMG_0071.AVI	Bird	Gallus gallus	1	
CT06	20/1/21	10:35:34	IMG_0073.AVI	Bird	Amaurornis phoenicurus	1	
CT06	20/1/21	13:01:42	IMG_0074.AVI	Bird	Amaurornis phoenicurus	1	chicks_2
CT06	20/1/21	13:02:58	IMG_0075.AVI	Bird	Amaurornis phoenicurus	1	chick
CT06	20/1/21	13:43:32	IMG_0076.AVI	Bird	Amaurornis phoenicurus	1	
CT06	20/1/21	13:52:12	IMG_0077.AVI	Bird	Amaurornis phoenicurus	1	
CT06	20/1/21	13:55:04	IMG_0078.AVI	Bird	Amaurornis phoenicurus	1	chick
CT06	21/1/21	6:14:56	IMG_0082.AVI	Mammal	Rattus sp.	1	
CT06	21/1/21	13:09:50	IMG_0080.AVI	Bird	Amaurornis phoenicurus	1	chick_1
CT06	21/1/21	13:21:30	IMG_0081.AVI	Bird	Amaurornis phoenicurus	1	
CT06	22/1/21	8:45:18	IMG_0084.AVI	Bird	Chalcophaps indica	1	
CT06	22/1/21	12:21:32	IMG_0085.AVI	Bird	Amaurornis phoenicurus	1	chick_1
CT06	22/1/21	12:50:06	IMG_0086.AVI	Bird	Amaurornis phoenicurus	1	
CT06	22/1/21	13:47:08	IMG_0087.AVI	Reptile	Varanus sp.	1	
CT06	22/1/21	14:06:28	IMG_0088.AVI	Bird	Amaurornis phoenicurus	1	
CT06	22/1/21	14:08:54	IMG_0089.AVI	Reptile	Varanus salvator	1	
CT06	22/1/21	14:09:22	IMG_0090.AVI	Bird	Amaurornis phoenicurus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT06	22/1/21	16:05:30	IMG_0091.AVI	Bird	Amaurornis phoenicurus	1	
CT06	22/1/21	18:57:32	IMG_0092.AVI	Bird	Amaurornis phoenicurus	1	
CT06	23/1/21	1:26:20	IMG_0093.AVI	Mammal	Suncus murinus	1	
CT06	24/1/21	0:32:30	IMG_0099.AVI	Mammal	Rattus tiomanicus	1	
CT06	24/1/21	12:38:52	IMG_0094.AVI	Bird	Gallus gallus	1	
CT06	24/1/21	14:27:54	IMG_0095.AVI	Bird	Gallus gallus	1	
CT06	24/1/21	14:28:46	IMG_0096.AVI	Bird	Gallus gallus	1	
CT06	24/1/21	15:22:02	IMG_0097.AVI	Bird	Gallus gallus	1	
CT06	24/1/21	15:27:04	IMG_0098.AVI	Bird	Gallus gallus	1	
CT06	25/1/21	15:11:18	IMG_0101.AVI	Bird	Amaurornis phoenicurus	1	
CT06	25/1/21	16:25:04	IMG_0102.AVI	Bird	Amaurornis phoenicurus	1	
CT06	27/1/21	5:43:44	IMG_0107.AVI	Mammal	Rattus tanezumi	1	
CT06	27/1/21	12:22:06	IMG_0105.AVI	Bird	Amaurornis phoenicurus	1	
CT06	27/1/21	13:48:56	IMG_0106.AVI	Bird	Amaurornis phoenicurus	1	
CT06	29/1/21	3:13:38	IMG_0112.AVI	Mammal	Rattus tanezumi	1	
CT06	29/1/21	7:38:20	IMG_0113.AVI	Bird	Amaurornis phoenicurus	1	
CT06	29/1/21	9:13:00	IMG_0109.AVI	Bird	Amaurornis phoenicurus	1	
CT06	29/1/21	12:49:24	IMG_0110.AVI	Reptile	Varanus salvator	1	
CT06	29/1/21	23:07:20	IMG_0111.AVI	Mammal	Rattus tanezumi	1	
CT06	30/1/21	20:46:02	IMG_0114.AVI	Mammal	Rattus tanezumi	1	
CT06	30/1/21	22:48:18	IMG_0115.AVI	Mammal	Rattus sp.	1	
CT06	31/1/21	18:58:08	IMG_0117.AVI	Bird	Amaurornis phoenicurus	1	
CT06	1/2/21	0:02:10	IMG_0124.AVI	Mammal	Rattus sp.	1	
CT06	1/2/21	0:04:18	IMG_0125.AVI	Mammal	Rattus tanezumi	1	
CT06	1/2/21	0:10:58	IMG_0126.AVI	Mammal	Rattus tanezumi	1	
CT06	1/2/21	0:11:42	IMG_0127.AVI	Mammal	Rattus tanezumi	1	
CT06	1/2/21	20:09:04	IMG_0118.AVI	Mammal	Rattus tanezumi	1	
CT06	1/2/21	20:09:48	IMG_0119.AVI	Mammal	Rattus tanezumi	1	
CT06	1/2/21	20:10:14	IMG_0120.AVI	Mammal	Rattus tanezumi	1	
CT06	1/2/21	20:16:54	IMG_0121.AVI	Mammal	Rattus tanezumi	1	
CT06	1/2/21	21:47:52	IMG_0122.AVI	Mammal	Rattus tanezumi	1	
CT06	1/2/21	22:35:20	IMG_0123.AVI	Mammal	Rattus tanezumi	1	
CT06	2/2/21	8:02:20	IMG_0128.AVI	Bird	Amaurornis phoenicurus	1	
CT06	2/2/21	19:46:12	IMG_0129.AVI	Mammal	Rattus tanezumi	1	
CT06	3/2/21	7:19:14	IMG_0138.AVI	Bird	Amaurornis phoenicurus	1	
CT06	3/2/21	12:16:26	IMG_0130.AVI	Bird	Gallus gallus	1	
CT06	3/2/21	12:17:22	IMG_0131.AVI	Bird	Gallus gallus	2	
CT06	3/2/21	12:43:32	IMG_0132.AVI	Bird	Gallus gallus	2	
CT06	3/2/21	12:54:14	IMG_0133.AVI	Bird	Gallus gallus	1	
CT06	3/2/21	12:56:58	IMG_0134.AVI	Bird	Spilopelia chinensis	1	
CT06	3/2/21	13:37:50	IMG_0135.AVI	Bird	Gallus gallus	1	
CT06	3/2/21	13:40:38	IMG_0136.AVI	Bird	Gallus gallus	1	
CT06	3/2/21	13:41:14	IMG_0137.AVI	Bird	Gallus gallus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT06	4/2/21	2:54:06	IMG_0141.AVI	Mammal	Rattus tanezumi	1	
CT06	4/2/21	2:56:18	IMG_0142.AVI	Mammal	Unidentified Muridae	1	
CT06	4/2/21	2:57:28	IMG_0144.AVI	Mammal	Unidentified Muridae	1	
CT06	4/2/21	2:57:50	IMG_0145.AVI	Mammal	Rattus tanezumi	1	
CT06	4/2/21	2:59:50	IMG_0146.AVI	Mammal	Rattus sp.	1	
CT06	4/2/21	3:00:36	IMG_0147.AVI	Mammal	Rattus tanezumi	1	
CT06	4/2/21	4:05:10	IMG_0148.AVI	Mammal	Rattus tanezumi	1	
CT06	4/2/21	19:56:48	IMG_0139.AVI	Mammal	Rattus tanezumi	1	
CT06	5/2/21	12:11:32	IMG_0149.AVI	Bird	Gallus gallus	1	
CT06	5/2/21	12:16:40	IMG_0150.AVI	Bird	Gallus gallus	1	
CT06	5/2/21	12:39:32	IMG_0151.AVI	Bird	Gallus gallus	1	
CT06	5/2/21	12:40:34	IMG_0153.AVI	Bird	Gallus gallus	3	
CT06	5/2/21	12:42:54	IMG_0154.AVI	Bird	Gallus gallus	3	
CT06	5/2/21	19:01:48	IMG_0155.AVI	Bird	Amaurornis phoenicurus	1	chick_1
CT06	5/2/21	20:40:16	IMG_0156.AVI	Mammal	Rattus tanezumi	1	
CT06	6/2/21	0:15:04	IMG_0158.AVI	Mammal	Rattus tanezumi	1	
CT06	6/2/21	5:20:04	IMG_0159.AVI	Mammal	Rattus tiomanicus	1	
CT06	6/2/21	6:02:38	IMG_0160.AVI	Mammal	Rattus sp.	1	
CT06	6/2/21	7:44:28	IMG_0161.AVI	Bird	Amaurornis phoenicurus	1	chick
CT06	6/2/21	11:30:00	IMG_0157.AVI	Bird	Amaurornis phoenicurus	1	
CT06	7/2/21	9:22:54	IMG_0162.AVI	Bird	Amaurornis phoenicurus	1	
CT06	17/12/21	5:45:44	IMG_0026.AVI	Mammal	Canis lupus familiaris	1	
CT06	17/12/21	6:06:30	IMG_0027.AVI	Mammal	Suncus murinus	1	
CT06	17/12/21	15:33:52	IMG_0022.AVI	Bird	Gallus gallus	1	
CT06	17/12/21	17:23:38	IMG_0023.AVI	Bird	Amaurornis phoenicurus	1	
CT06	17/12/21	18:52:24	IMG_0024.AVI	Bird	Amaurornis phoenicurus	2	
CT06	17/12/21	18:53:52	IMG_0025.AVI	Bird	Amaurornis phoenicurus	2	
CT06	18/12/21	1:20:46	IMG_0034.AVI	Mammal	Rattus tiomanicus	1	
CT06	18/12/21	1:29:22	IMG_0035.AVI	Mammal	Suncus murinus	1	
CT06	18/12/21	2:03:00	IMG_0036.AVI	Mammal	Rattus sp.	1	
CT06	18/12/21	2:03:00	IMG_0036.AVI	Mammal	Suncus murinus	1	
CT06	18/12/21	2:30:24	IMG_0037.AVI	Mammal	Suncus murinus	1	
CT06	18/12/21	6:12:16	IMG_0039.AVI	Mammal	Suncus murinus	1	
CT06	18/12/21	6:24:22	IMG_0040.AVI	Mammal	Suncus murinus	1	
CT06	18/12/21	12:35:02	IMG_0028.AVI	Bird	Amaurornis phoenicurus	1	
CT06	18/12/21	18:05:46	IMG_0029.AVI	Mammal	Callosciurus notatus	1	
CT06	18/12/21	23:12:18	IMG_0031.AVI	Mammal	Suncus murinus	1	
CT06	18/12/21	23:49:00	IMG_0032.AVI	Mammal	Suncus murinus	1	
CT06	19/12/21	5:59:34	IMG_0045.AVI	Mammal	Suncus murinus	1	
CT06	19/12/21	6:15:22	IMG_0046.AVI	Mammal	Suncus murinus	1	
CT06	19/12/21	11:19:30	IMG_0042.AVI	Bird	Amaurornis phoenicurus	1	
CT06	19/12/21	22:18:30	IMG_0044.AVI	Mammal	Suncus murinus	1	
CT06	20/12/21	4:23:22	IMG_0050.AVI	Mammal	Suncus murinus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT06	20/12/21	13:23:10	IMG_0047.AVI	Bird	Amaurornis phoenicurus	1	
CT06	20/12/21	21:48:22	IMG_0049.AVI	Mammal	Suncus murinus	1	
CT06	21/12/21	6:25:18	IMG_0055.AVI	Mammal	Suncus murinus	1	
CT06	21/12/21	7:17:20	IMG_0056.AVI	Bird	Amaurornis phoenicurus	1	
CT06	21/12/21	14:41:38	IMG_0051.AVI	Mammal	Callosciurus notatus	1	
CT06	21/12/21	16:09:56	IMG_0053.AVI	Mammal	Callosciurus notatus	1	
CT06	21/12/21	16:10:20	IMG_0054.AVI	Mammal	Callosciurus notatus	1	
CT06	22/12/21	0:31:36	IMG_0064.AVI	Mammal	Suncus murinus	1	
CT06	22/12/21	5:47:18	IMG_0065.AVI	Mammal	Suncus murinus	1	
CT06	22/12/21	11:00:36	IMG_0058.AVI	Bird	Gallus gallus	2	
CT06	22/12/21	11:06:48	IMG_0059.AVI	Bird	Gallus gallus	2	
CT06	22/12/21	11:07:12	IMG_0060.AVI	Bird	Gallus gallus	2	
CT06	22/12/21	11:56:48	IMG_0061.AVI	Bird	Amaurornis phoenicurus	1	
CT06	22/12/21	12:45:56	IMG_0062.AVI	Bird	Gallus gallus	1	
CT06	22/12/21	12:54:56	IMG_0063.AVI	Bird	Gallus gallus	1	
CT06	23/12/21	5:16:58	IMG_0075.AVI	Mammal	Rattus tanezumi	1	
CT06	23/12/21	8:13:22	IMG_0066.AVI	Bird	Amaurornis phoenicurus	1	
CT06	23/12/21	12:00:26	IMG_0067.AVI	Bird	Gallus gallus	1	
CT06	23/12/21	14:23:28	IMG_0068.AVI	Bird	Gallus gallus	3	
CT06	23/12/21	14:31:28	IMG_0069.AVI	Bird	Amaurornis phoenicurus	1	
CT06	23/12/21	15:13:48	IMG_0070.AVI	Bird	Gallus gallus	1	
CT06	23/12/21	15:14:14	IMG_0071.AVI	Bird	Gallus gallus	3	
CT06	23/12/21	15:18:10	IMG_0072.AVI	Bird	Gallus gallus	1	
CT06	23/12/21	15:24:54	IMG_0073.AVI	Bird	Gallus gallus	1	
CT06	23/12/21	15:26:32	IMG_0074.AVI	Bird	Gallus gallus	1	
CT06	24/12/21	6:44:28	IMG_0078.AVI	Mammal	Suncus murinus	1	
CT06	24/12/21	6:48:54	IMG_0079.AVI	Mammal	Suncus murinus	1	
CT06	24/12/21	20:14:48	IMG_0076.AVI	Mammal	Rattus tanezumi	1	
CT06	24/12/21	20:15:26	IMG_0077.AVI	Mammal	Rattus tanezumi	1	
CT06	25/12/21	0:02:38	IMG_0087.AVI	Mammal	Rattus sp.	1	
CT06	25/12/21	0:03:26	IMG_0088.AVI	Mammal	Rattus tanezumi	1	
CT06	25/12/21	7:01:38	IMG_0089.AVI	Bird	Amaurornis phoenicurus	1	
CT06	25/12/21	7:07:32	IMG_0090.AVI	Bird	Picus vittatus	1	
CT06	25/12/21	7:09:34	IMG_0092.AVI	Bird	Picus vittatus	1	
CT06	25/12/21	7:10:26	IMG_0094.AVI	Bird	Picus vittatus	1	
CT06	25/12/21	11:59:30	IMG_0080.AVI	Bird	Gallus gallus	1	
CT06	25/12/21	13:39:16	IMG_0081.AVI	Bird	Gallus gallus	1	
CT06	25/12/21	13:55:22	IMG_0084.AVI	Bird	Gallus gallus	1	
CT06	25/12/21	14:32:18	IMG_0085.AVI	Bird	Amaurornis phoenicurus	1	
CT06	25/12/21	14:37:26	IMG_0086.AVI	Bird	Gallus gallus	2	
CT06	26/12/21	6:40:00	IMG_0097.AVI	Mammal	Suncus murinus	1	
CT06	26/12/21	19:39:56	IMG_0096.AVI	Mammal	Suncus murinus	1	
CT06	27/12/21	1:58:30	IMG_0102.AVI	Mammal	Suncus murinus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT06	27/12/21	6:25:44	IMG_0104.AVI	Mammal	Suncus murinus	1	
CT06	27/12/21	8:14:56	IMG_0098.AVI	Bird	Gallus gallus	1	
CT06	27/12/21	11:11:34	IMG_0099.AVI	Bird	Gallus gallus	1	
CT06	27/12/21	17:31:44	IMG_0101.AVI	Bird	Gallus gallus	1	
CT06	28/12/21	2:08:42	IMG_0109.AVI	Mammal	Suncus murinus	1	
CT06	28/12/21	18:21:16	IMG_0108.AVI	Bird	Amaurornis phoenicurus	1	
CT06	29/12/21	4:00:28	IMG_0118.AVI	Mammal	Suncus murinus	1	
CT06	29/12/21	8:10:18	IMG_0110.AVI	Bird	Gallus gallus	2	
CT06	29/12/21	10:43:50	IMG_0112.AVI	Bird	Amaurornis phoenicurus	1	
CT06	29/12/21	11:49:22	IMG_0113.AVI	Bird	Gallus gallus	1	
CT06	29/12/21	13:17:20	IMG_0114.AVI	Bird	Gallus gallus	1	
CT06	29/12/21	16:34:06	IMG_0115.AVI	Bird	Amaurornis phoenicurus	1	
CT06	29/12/21	18:52:28	IMG_0116.AVI	Bird	Amaurornis phoenicurus	1	
CT06	30/12/21	20:38:50	IMG_0119.AVI	Mammal	Rattus sp.	1	
CT06	30/12/21	20:54:58	IMG_0120.AVI	Mammal	Rattus tanezumi	1	
CT06	31/12/21	22:22:00	IMG_0122.AVI	Mammal	Rattus sp.	1	
CT06	1/1/22	12:12:32	IMG_0123.AVI	Bird	Gallus gallus	1	
CT06	1/1/22	18:31:18	IMG_0124.AVI	Bird	Amaurornis phoenicurus	1	
CT06	1/1/22	20:32:36	IMG_0125.AVI	Mammal	Rattus tanezumi	1	
CT06	1/1/22	23:01:10	IMG_0126.AVI	Mammal	Suncus murinus	1	
CT06	2/1/22	0:18:56	IMG_0133.AVI	Mammal	Rattus sp.	1	
CT06	2/1/22	1:06:30	IMG_0134.AVI	Mammal	Suncus murinus	1	
CT06	2/1/22	1:26:34	IMG_0135.AVI	Mammal	Rattus tanezumi	1	
CT06	2/1/22	1:37:42	IMG_0136.AVI	Mammal	Suncus murinus	1	
CT06	2/1/22	1:47:28	IMG_0137.AVI	Mammal	Suncus murinus	1	
CT06	2/1/22	8:01:50	IMG_0127.AVI	Bird	Amaurornis phoenicurus	1	
CT06	2/1/22	22:43:24	IMG_0130.AVI	Mammal	Rattus sp.	1	
CT06	2/1/22	23:24:02	IMG_0131.AVI	Mammal	Rattus tanezumi	1	
CT06	2/1/22	23:38:02	IMG_0132.AVI	Mammal	Unidentified Muridae	2	
CT06	3/1/22	10:51:32	IMG_0138.AVI	Reptile	Calotes versicolor	1	
CT06	3/1/22	15:07:44	IMG_0142.AVI	Bird	Amaurornis phoenicurus	1	
CT06	3/1/22	18:03:20	IMG_0143.AVI	Bird	Gallus gallus	1	
CT06	3/1/22	23:33:38	IMG_0144.AVI	Mammal	Rattus tanezumi	1	
CT06	4/1/22	1:23:42	IMG_0157.AVI	Mammal	Rattus tiomanicus	1	
CT06	4/1/22	1:24:12	IMG_0158.AVI	Mammal	Rattus tiomanicus	1	
CT06	4/1/22	6:43:14	IMG_0159.AVI	Mammal	Rattus tanezumi	1	
CT06	4/1/22	7:30:14	IMG_0160.AVI	Bird	Amaurornis phoenicurus	1	
CT06	4/1/22	9:08:14	IMG_0146.AVI	Bird	Amaurornis phoenicurus	1	
CT06	4/1/22	9:17:30	IMG_0147.AVI	Bird	Amaurornis phoenicurus	1	
CT06	4/1/22	13:30:30	IMG_0151.AVI	Reptile	Varanus salvator	1	
CT06	4/1/22	13:54:34	IMG_0152.AVI	Bird	Amaurornis phoenicurus	1	
CT06	4/1/22	16:44:16	IMG_0153.AVI	Bird	Amaurornis phoenicurus	1	
CT06	4/1/22	20:38:32	IMG_0154.AVI	Mammal	Rattus sp.	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT06	4/1/22	20:57:32	IMG_0155.AVI	Mammal	Rattus sp.	1	
CT06	4/1/22	21:30:18	IMG_0156.AVI	Mammal	Rattus tanezumi	1	
CT06	5/1/22	1:39:36	IMG_0171.AVI	Mammal	Suncus murinus	1	
CT06	5/1/22	12:18:56	IMG_0161.AVI	Bird	Amaurornis phoenicurus	1	
CT06	5/1/22	12:33:04	IMG_0162.AVI	Bird	Amaurornis phoenicurus	1	
CT06	5/1/22	12:35:36	IMG_0163.AVI	Bird	Amaurornis phoenicurus	1	
CT06	5/1/22	12:40:42	IMG_0164.AVI	Bird	Amaurornis phoenicurus	1	
CT06	5/1/22	12:41:14	IMG_0165.AVI	Bird	Amaurornis phoenicurus	1	
CT06	5/1/22	12:43:56	IMG_0166.AVI	Bird	Amaurornis phoenicurus	1	
CT06	5/1/22	12:45:54	IMG_0167.AVI	Bird	Amaurornis phoenicurus	1	
CT06	5/1/22	13:52:26	IMG_0168.AVI	Bird	Amaurornis phoenicurus	1	chicks_4
CT06	5/1/22	21:04:46	IMG_0169.AVI	Mammal	Rattus sp.	1	
CT06	5/1/22	22:16:30	IMG_0170.AVI	Mammal	Rattus tiomanicus	1	
CT06	6/1/22	2:21:54	IMG_0187.AVI	Mammal	Rattus tiomanicus	1	
CT06	6/1/22	8:01:38	IMG_0172.AVI	Bird	Gallus gallus	1	
CT06	6/1/22	8:38:12	IMG_0173.AVI	Bird	Amaurornis phoenicurus	1	
CT06	6/1/22	8:46:06	IMG_0174.AVI	Bird	Amaurornis phoenicurus	1	
CT06	6/1/22	8:49:28	IMG_0175.AVI	Bird	Amaurornis phoenicurus	1	
CT06	6/1/22	9:06:06	IMG_0177.AVI	Bird	Amaurornis phoenicurus	1	
CT06	6/1/22	9:10:44	IMG_0178.AVI	Bird	Amaurornis phoenicurus	3	chick_1
CT06	6/1/22	9:19:12	IMG_0179.AVI	Bird	Amaurornis phoenicurus	1	
CT06	6/1/22	10:56:46	IMG_0180.AVI	Bird	Amaurornis phoenicurus	1	chicks_3
CT06	6/1/22	14:31:08	IMG_0182.AVI	Bird	Amaurornis phoenicurus	1	
CT06	6/1/22	15:26:10	IMG_0184.AVI	Bird	Amaurornis phoenicurus	1	
CT06	6/1/22	15:27:44	IMG_0185.AVI	Bird	Amaurornis phoenicurus	1	
CT06	7/1/22	0:11:48	IMG_0193.AVI	Mammal	Rattus tiomanicus	1	
CT06	7/1/22	0:12:54	IMG_0194.AVI	Mammal	Rattus tiomanicus	1	
CT06	7/1/22	0:13:16	IMG_0195.AVI	Mammal	Rattus tiomanicus	1	
CT06	7/1/22	4:27:14	IMG_0196.AVI	Mammal	Suncus murinus	1	
CT06	7/1/22	4:48:10	IMG_0197.AVI	Mammal	Suncus murinus	1	
CT06	7/1/22	10:22:32	IMG_0188.AVI	Mammal	Callosciurus notatus	1	
CT06	7/1/22	18:15:12	IMG_0190.AVI	N.A	Unidentified sp.	1	
CT06	7/1/22	18:15:34	IMG_0191.AVI	Bird	Amaurornis phoenicurus	1	
CT06	7/1/22	19:35:46	IMG_0192.AVI	Mammal	Suncus murinus	1	
CT06	8/1/22	11:13:42	IMG_0198.AVI	Bird	Amaurornis phoenicurus	1	
CT06	8/1/22	12:39:26	IMG_0199.AVI	Bird	Amaurornis phoenicurus	1	chicks_3
CT06	8/1/22	12:40:56	IMG_0200.AVI	Bird	Amaurornis phoenicurus	2	chicks_2
CT06	8/1/22	12:41:24	IMG_0201.AVI	Bird	Amaurornis phoenicurus	1	chick_1
CT06	8/1/22	12:43:40	IMG_0202.AVI	Bird	Amaurornis phoenicurus	1	chick_1
CT06	8/1/22	12:45:36	IMG_0203.AVI	Bird	Amaurornis phoenicurus	1	chick_1
CT06	8/1/22	12:53:42	IMG_0204.AVI	Bird	Amaurornis phoenicurus	1	
CT06	8/1/22	13:31:06	IMG_0205.AVI	Bird	Amaurornis phoenicurus	1	
CT06	8/1/22	15:06:18	IMG_0206.AVI	Bird	Amaurornis phoenicurus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT06	8/1/22	16:23:46	IMG_0207.AVI	Bird	Amaurornis phoenicurus	2	chicks_3
CT06	8/1/22	17:10:00	IMG_0208.AVI	Bird	Picus vittatus	1	
CT06	8/1/22	17:10:28	IMG_0209.AVI	Bird	Picus vittatus	1	
CT06	8/1/22	17:11:18	IMG_0211.AVI	Bird	Picus vittatus	1	
CT06	9/1/22	2:09:28	IMG_0215.AVI	Mammal	Rattus tiomanicus	1	
CT06	9/1/22	14:47:20	IMG_0213.AVI	Bird	Amaurornis phoenicurus	1	
CT06	9/1/22	18:49:16	IMG_0214.AVI	Bird	Amaurornis phoenicurus	1	chick_1
CT06	2/7/22	1:50:10	IMG_0008.AVI	Mammal	Rattus tiomanicus	1	
CT06	2/7/22	2:34:16	IMG_0009.AVI	Mammal	Suncus murinus	1	
CT06	2/7/22	3:19:00	IMG_0010.AVI	Mammal	Rattus tiomanicus	1	
CT06	2/7/22	3:36:32	IMG_0011.AVI	Mammal	Rattus sp.	1	
CT06	2/7/22	7:45:08	IMG_0012.AVI	Bird	Amaurornis phoenicurus	1	chick_1
CT06	2/7/22	11:27:12	IMG_0003.AVI	Bird	Amaurornis phoenicurus	1	
CT06	2/7/22	13:13:30	IMG_0004.AVI	Bird	Amaurornis phoenicurus	2	
CT06	2/7/22	14:45:58	IMG_0006.AVI	Bird	Amaurornis phoenicurus	2	
CT06	2/7/22	19:08:12	IMG_0007.AVI	Bird	Amaurornis phoenicurus	1	
CT06	3/7/22	2:08:14	IMG_0014.AVI	Mammal	Rattus tiomanicus	1	
CT06	3/7/22	3:49:18	IMG_0015.AVI	Mammal	Rattus tiomanicus	1	
CT06	3/7/22	6:21:26	IMG_0016.AVI	Mammal	Rattus sp.	1	
CT06	3/7/22	12:49:02	IMG_0013.AVI	Bird	Amaurornis phoenicurus	1	
CT06	4/7/22	8:49:58	IMG_0017.AVI	Bird	Amaurornis phoenicurus	1	
CT06	4/7/22	8:50:30	IMG_0018.AVI	Bird	Amaurornis phoenicurus	1	
CT06	5/7/22	10:06:44	IMG_0020.AVI	Bird	Amaurornis phoenicurus	1	
CT06	5/7/22	16:59:02	IMG_0021.AVI	Bird	Amaurornis phoenicurus	1	
CT06	5/7/22	18:49:04	IMG_0022.AVI	Bird	Amaurornis phoenicurus	1	
CT06	6/7/22	1:14:26	IMG_0023.AVI	Mammal	Suncus murinus	1	
CT06	6/7/22	1:53:46	IMG_0024.AVI	Mammal	Suncus murinus	1	
CT06	7/7/22	1:08:08	IMG_0026.AVI	Mammal	Suncus murinus	1	
CT06	7/7/22	22:03:22	IMG_0025.AVI	Mammal	Rattus sp.	1	
CT06	8/7/22	11:38:20	IMG_0027.AVI	Bird	Spilopelia chinensis	1	
CT06	8/7/22	23:33:12	IMG_0029.AVI	Mammal	Rattus tanezumi	1	
CT06	8/7/22	23:36:36	IMG_0030.AVI	Mammal	Suncus murinus	1	
CT06	9/7/22	7:12:14	IMG_0039.AVI	Mammal	Sus scrofa	1	
CT06	9/7/22	9:41:22	IMG_0031.AVI	Bird	Amaurornis phoenicurus	1	
CT06	9/7/22	10:04:20	IMG_0032.AVI	Bird	Amaurornis phoenicurus	1	chick_1
CT06	9/7/22	10:47:30	IMG_0033.AVI	Bird	Amaurornis phoenicurus	1	
CT06	9/7/22	11:36:40	IMG_0034.AVI	Reptile	Varanus sp.	1	
CT06	9/7/22	17:58:30	IMG_0038.AVI	Bird	Amaurornis phoenicurus	1	
CT06	11/7/22	0:00:30	IMG_0055.AVI	Mammal	Suncus murinus	1	
CT06	11/7/22	0:31:02	IMG_0056.AVI	Mammal	Rattus sp.	1	
CT06	11/7/22	10:19:28	IMG_0042.AVI	Bird	Gallus gallus	1	
CT06	11/7/22	10:23:26	IMG_0043.AVI	Bird	Gallus gallus	2	
CT06	11/7/22	10:25:10	IMG_0044.AVI	Bird	Gallus gallus	2	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT06	11/7/22	10:27:28	IMG_0047.AVI	Bird	Gallus gallus	1	
CT06	11/7/22	11:11:04	IMG_0048.AVI	Bird	Gallus gallus	1	
CT06	11/7/22	11:11:04	IMG_0048.AVI	Bird	Amaurornis phoenicurus	1	
CT06	11/7/22	11:16:22	IMG_0049.AVI	Bird	Gallus gallus	1	
CT06	11/7/22	11:23:48	IMG_0050.AVI	Bird	Amaurornis phoenicurus	1	
CT06	11/7/22	12:12:56	IMG_0051.AVI	Bird	Amaurornis phoenicurus	1	
CT06	11/7/22	12:47:54	IMG_0052.AVI	Bird	Amaurornis phoenicurus	1	
CT06	11/7/22	18:14:22	IMG_0053.AVI	Bird	Aplonis panayensis	1	
CT06	11/7/22	19:44:14	IMG_0054.AVI	Mammal	Rattus sp.	1	
CT06	12/7/22	16:26:12	IMG_0057.AVI	Bird	Rhipidura javanica	2	
CT06	13/7/22	1:39:16	IMG_0059.AVI	Mammal	Suncus murinus	1	
CT06	14/7/22	4:25:50	IMG_0097.AVI	Mammal	Rattus tanezumi	1	
CT06	14/7/22	4:26:12	IMG_0098.AVI	Mammal	Rattus tanezumi	1	
CT06	14/7/22	12:08:06	IMG_0060.AVI	Bird	Gallus gallus	1	
CT06	14/7/22	12:08:30	IMG_0061.AVI	Bird	Gallus gallus	1	
CT06	14/7/22	12:40:22	IMG_0062.AVI	Bird	Amaurornis phoenicurus	1	
CT06	14/7/22	12:43:54	IMG_0063.AVI	Bird	Gallus gallus	1	
CT06	14/7/22	12:44:18	IMG_0064.AVI	Bird	Gallus gallus	2	
CT06	14/7/22	13:12:36	IMG_0065.AVI	Bird	Amaurornis phoenicurus	2	
CT06	14/7/22	14:33:34	IMG_0066.AVI	Bird	Gallus gallus	1	
CT06	14/7/22	14:41:46	IMG_0067.AVI	Bird	Gallus gallus	3	
CT06	14/7/22	14:42:52	IMG_0068.AVI	Bird	Gallus gallus	2	
CT06	14/7/22	14:43:16	IMG_0069.AVI	Bird	Gallus gallus	2	
CT06	14/7/22	14:44:42	IMG_0071.AVI	Bird	Gallus gallus	2	
CT06	14/7/22	14:46:58	IMG_0072.AVI	Bird	Gallus gallus	2	
CT06	14/7/22	14:49:30	IMG_0073.AVI	Bird	Gallus gallus	2	
CT06	14/7/22	14:54:24	IMG_0074.AVI	Bird	Gallus gallus	2	
CT06	14/7/22	14:55:14	IMG_0076.AVI	Bird	Gallus gallus	3	
CT06	14/7/22	14:56:12	IMG_0078.AVI	Bird	Gallus gallus	3	
CT06	14/7/22	14:57:34	IMG_0081.AVI	Bird	Gallus gallus	2	
CT06	14/7/22	14:58:18	IMG_0083.AVI	Bird	Gallus gallus	2	
CT06	14/7/22	15:00:16	IMG_0084.AVI	Bird	Gallus gallus	2	
CT06	14/7/22	15:02:12	IMG_0086.AVI	Bird	Gallus gallus	2	
CT06	14/7/22	15:03:38	IMG_0088.AVI	Bird	Gallus gallus	3	
CT06	14/7/22	15:04:16	IMG_0089.AVI	Bird	Gallus gallus	2	
CT06	14/7/22	15:05:36	IMG_0091.AVI	Bird	Gallus gallus	2	
CT06	14/7/22	22:30:30	IMG_0093.AVI	Mammal	Rattus tanezumi	1	
CT06	14/7/22	22:35:52	IMG_0094.AVI	Mammal	Suncus murinus	1	
CT06	15/7/22	5:01:36	IMG_0101.AVI	Mammal	Rattus tiomanicus	1	
CT06	15/7/22	19:06:08	IMG_0100.AVI	Bird	Amaurornis phoenicurus	1	chick
CT06	16/7/22	12:59:58	IMG_0102.AVI	Bird	Amaurornis phoenicurus	1	chick
CT06	16/7/22	15:28:24	IMG_0103.AVI	Bird	Unidentified bird	1	
CT06	16/7/22	15:28:24	IMG_0103.AVI	Bird	Gallus gallus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT06	16/7/22	15:28:24	IMG_0103.AVI	Bird	Amaurornis phoenicurus	1	
CT06	16/7/22	21:16:12	IMG_0105.AVI	Mammal	Rattus sp.	1	
CT07	10/1/21	4:44:12	IMG_0011.AVI	Mammal	Rattus sp.	1	
CT07	10/1/21	7:03:58	IMG_0012.AVI	Bird	Amaurornis phoenicurus	1	
CT07	10/1/21	16:51:46	IMG_0009.AVI	Bird	Gallus gallus	2	
CT07	11/1/21	7:36:52	IMG_0028.AVI	Bird	Gallus gallus	3	
CT07	11/1/21	7:37:34	IMG_0029.AVI	Bird	Gallus gallus	3	
CT07	11/1/21	7:43:26	IMG_0030.AVI	Bird	Gallus gallus	1	
CT07	11/1/21	7:43:26	IMG_0030.AVI	Bird	Amaurornis phoenicurus	1	
CT07	11/1/21	10:46:04	IMG_0013.AVI	Bird	Amaurornis phoenicurus	1	
CT07	11/1/21	11:05:18	IMG_0015.AVI	Bird	Amaurornis phoenicurus	1	
CT07	11/1/21	11:06:58	IMG_0016.AVI	Bird	Amaurornis phoenicurus	1	
CT07	11/1/21	11:09:28	IMG_0017.AVI	Bird	Amaurornis phoenicurus	1	
CT07	11/1/21	11:20:44	IMG_0018.AVI	Bird	Amaurornis phoenicurus	1	
CT07	11/1/21	11:22:12	IMG_0019.AVI	Bird	Amaurornis phoenicurus	1	
CT07	11/1/21	12:36:14	IMG_0020.AVI	Bird	Amaurornis phoenicurus	1	
CT07	11/1/21	12:48:34	IMG_0021.AVI	Bird	Amaurornis phoenicurus	1	
CT07	11/1/21	13:16:18	IMG_0022.AVI	Bird	Amaurornis phoenicurus	1	
CT07	11/1/21	13:29:50	IMG_0023.AVI	Bird	Lewinia striata	1	
CT07	11/1/21	14:14:22	IMG_0025.AVI	Mammal	Callosciurus notatus	1	
CT07	11/1/21	16:21:20	IMG_0026.AVI	Bird	Amaurornis phoenicurus	1	
CT07	11/1/21	16:26:20	IMG_0027.AVI	Bird	Amaurornis phoenicurus	1	
CT07	12/1/21	7:23:40	IMG_0043.AVI	Bird	Gallus gallus	2	
CT07	12/1/21	7:24:24	IMG_0045.AVI	Bird	Gallus gallus	3	
CT07	12/1/21	7:26:48	IMG_0048.AVI	Bird	Gallus gallus	1	
CT07	12/1/21	7:32:16	IMG_0049.AVI	Bird	Gallus gallus	2	
CT07	12/1/21	7:43:06	IMG_0050.AVI	Bird	Gallus gallus	1	
CT07	12/1/21	7:44:10	IMG_0051.AVI	Bird	Gallus gallus	3	
CT07	12/1/21	8:15:36	IMG_0031.AVI	Bird	Gallus gallus	3	
CT07	12/1/21	10:01:56	IMG_0032.AVI	Bird	Lewinia striata	5	chicks
CT07	12/1/21	10:13:14	IMG_0033.AVI	Bird	Gallus gallus	1	
CT07	12/1/21	11:58:08	IMG_0034.AVI	Bird	Amaurornis phoenicurus	1	
CT07	12/1/21	15:21:02	IMG_0035.AVI	Bird	Gallus gallus	2	
CT07	12/1/21	18:06:50	IMG_0036.AVI	Bird	Gallus gallus	1	
CT07	12/1/21	18:09:12	IMG_0037.AVI	Bird	Gallus gallus	2	
CT07	12/1/21	18:57:56	IMG_0038.AVI	Bird	Gallus gallus	1	
CT07	12/1/21	18:58:50	IMG_0039.AVI	Bird	Gallus gallus	1	
CT07	12/1/21	19:02:14	IMG_0040.AVI	Bird	Gallus gallus	1	
CT07	12/1/21	19:05:50	IMG_0042.AVI	Bird	Gallus gallus	1	
CT07	13/1/21	7:25:06	IMG_0064.AVI	Bird	Gallus gallus	1	
CT07	13/1/21	8:38:14	IMG_0053.AVI	Bird	Gallus gallus	2	
CT07	13/1/21	14:06:54	IMG_0055.AVI	Bird	Gallus gallus	2	
CT07	13/1/21	16:39:34	IMG_0056.AVI	Bird	Gallus gallus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT07	13/1/21	17:51:00	IMG_0057.AVI	Bird	Gallus gallus	1	
CT07	13/1/21	18:23:36	IMG_0058.AVI	Bird	Gallus gallus	1	
CT07	13/1/21	18:24:20	IMG_0060.AVI	Bird	Gallus gallus	2	
CT07	13/1/21	18:26:22	IMG_0062.AVI	Bird	Gallus gallus	1	
CT07	13/1/21	19:04:44	IMG_0063.AVI	Bird	Amaurornis phoenicurus	1	
CT07	14/1/21	3:11:26	IMG_0074.AVI	Mammal	Rattus sp.	1	
CT07	14/1/21	3:12:36	IMG_0075.AVI	Mammal	Rattus tanezumi	1	
CT07	14/1/21	7:24:28	IMG_0076.AVI	Bird	Gallus gallus	2	
CT07	14/1/21	8:08:28	IMG_0065.AVI	Bird	Amaurornis phoenicurus	1	
CT07	14/1/21	8:19:02	IMG_0066.AVI	Bird	Amaurornis phoenicurus	1	
CT07	14/1/21	9:14:52	IMG_0067.AVI	Bird	Amaurornis phoenicurus	1	
CT07	14/1/21	14:49:02	IMG_0068.AVI	Bird	Amaurornis phoenicurus	1	
CT07	14/1/21	14:56:14	IMG_0069.AVI	Bird	Amaurornis phoenicurus	1	
CT07	14/1/21	18:42:26	IMG_0070.AVI	Bird	Gallus gallus	1	
CT07	14/1/21	19:18:44	IMG_0072.AVI	Bird	Gallus gallus	1	
CT07	14/1/21	19:25:22	IMG_0073.AVI	Bird	Amaurornis phoenicurus	1	
CT07	15/1/21	7:47:42	IMG_0094.AVI	Bird	Amaurornis phoenicurus	1	
CT07	15/1/21	9:45:56	IMG_0077.AVI	Bird	Gallus gallus	1	
CT07	15/1/21	9:50:06	IMG_0078.AVI	Bird	Gallus gallus	1	
CT07	15/1/21	9:50:36	IMG_0079.AVI	Bird	Gallus gallus	2	
CT07	15/1/21	9:51:18	IMG_0080.AVI	Bird	Gallus gallus	1	
CT07	15/1/21	9:58:58	IMG_0081.AVI	Reptile	Varanus salvator	1	
CT07	15/1/21	10:22:34	IMG_0082.AVI	Bird	Amaurornis phoenicurus	1	
CT07	15/1/21	12:22:10	IMG_0083.AVI	Bird	Amaurornis phoenicurus	1	
CT07	15/1/21	15:21:28	IMG_0084.AVI	Bird	Gallus gallus	3	
CT07	15/1/21	16:31:26	IMG_0085.AVI	Mammal	Callosciurus notatus	1	
CT07	15/1/21	18:29:50	IMG_0088.AVI	Bird	Amaurornis phoenicurus	1	
CT07	15/1/21	18:35:10	IMG_0089.AVI	Bird	Gallus gallus	1	
CT07	15/1/21	19:14:26	IMG_0092.AVI	Bird	Amaurornis phoenicurus	1	
CT07	15/1/21	22:06:18	IMG_0093.AVI	Mammal	Rattus tiomanicus	1	
CT07	16/1/21	6:22:14	IMG_0117.AVI	Mammal	Rattus tiomanicus	1	
CT07	16/1/21	6:27:34	IMG_0118.AVI	Mammal	Suncus murinus	1	
CT07	16/1/21	7:07:50	IMG_0119.AVI	Bird	Amaurornis phoenicurus	1	
CT07	16/1/21	8:26:20	IMG_0095.AVI	Bird	Amaurornis phoenicurus	1	
CT07	16/1/21	8:44:00	IMG_0096.AVI	Bird	Amaurornis phoenicurus	1	
CT07	16/1/21	8:50:38	IMG_0097.AVI	Bird	Amaurornis phoenicurus	1	
CT07	16/1/21	10:23:20	IMG_0098.AVI	Bird	Amaurornis phoenicurus	1	
CT07	16/1/21	10:45:56	IMG_0099.AVI	Bird	Amaurornis phoenicurus	1	
CT07	16/1/21	10:46:44	IMG_0100.AVI	Bird	Amaurornis phoenicurus	1	
CT07	16/1/21	10:50:50	IMG_0101.AVI	Reptile	Varanus salvator	1	
CT07	16/1/21	12:12:00	IMG_0102.AVI	Bird	Amaurornis phoenicurus	1	
CT07	16/1/21	12:43:36	IMG_0103.AVI	Mammal	Callosciurus notatus	1	
CT07	16/1/21	12:44:22	IMG_0105.AVI	Mammal	Callosciurus notatus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT07	16/1/21	12:47:02	IMG_0106.AVI	Mammal	Callosciurus notatus	1	
CT07	16/1/21	12:54:32	IMG_0108.AVI	Bird	Amaurornis phoenicurus	1	
CT07	16/1/21	13:16:50	IMG_0110.AVI	Bird	Amaurornis phoenicurus	1	
CT07	16/1/21	15:28:10	IMG_0111.AVI	Reptile	Varanus salvator	1	
CT07	16/1/21	15:36:46	IMG_0112.AVI	Mammal	Callosciurus notatus	1	
CT07	16/1/21	15:48:02	IMG_0113.AVI	Mammal	Callosciurus notatus	1	
CT07	16/1/21	16:42:38	IMG_0114.AVI	Mammal	Callosciurus notatus	1	
CT07	16/1/21	18:52:02	IMG_0115.AVI	Bird	Amaurornis phoenicurus	1	
CT07	17/1/21	4:18:00	IMG_0132.AVI	Mammal	Rattus sp.	1	
CT07	17/1/21	4:18:44	IMG_0133.AVI	Mammal	Rattus sp.	1	
CT07	17/1/21	7:03:24	IMG_0137.AVI	Bird	Amaurornis phoenicurus	1	
CT07	17/1/21	8:26:04	IMG_0120.AVI	Bird	Gallus gallus	1	
CT07	17/1/21	9:18:02	IMG_0121.AVI	Bird	Amaurornis phoenicurus	1	
CT07	17/1/21	10:17:46	IMG_0122.AVI	Bird	Amaurornis phoenicurus	1	
CT07	17/1/21	10:57:10	IMG_0123.AVI	Bird	Gallus gallus	4	
CT07	17/1/21	10:59:04	IMG_0126.AVI	Bird	Gallus gallus	2	
CT07	17/1/21	11:17:10	IMG_0127.AVI	Bird	Amaurornis phoenicurus	1	
CT07	17/1/21	11:24:02	IMG_0128.AVI	Bird	Amaurornis phoenicurus	1	
CT07	17/1/21	11:43:04	IMG_0129.AVI	Bird	Amaurornis phoenicurus	1	
CT07	17/1/21	11:55:14	IMG_0130.AVI	Bird	Amaurornis phoenicurus	1	
CT07	18/1/21	7:11:12	IMG_0150.AVI	Bird	Amaurornis phoenicurus	1	
CT07	18/1/21	8:29:08	IMG_0138.AVI	Bird	Gallus gallus	1	
CT07	18/1/21	10:25:02	IMG_0139.AVI	Bird	Chalcophaps indica	1	
CT07	18/1/21	10:25:24	IMG_0140.AVI	Bird	Chalcophaps indica	1	
CT07	18/1/21	10:26:14	IMG_0141.AVI	Bird	Chalcophaps indica	1	
CT07	18/1/21	12:58:50	IMG_0142.AVI	Bird	Gallus gallus	1	
CT07	18/1/21	16:23:20	IMG_0144.AVI	Bird	Gallus gallus	1	
CT07	18/1/21	18:10:34	IMG_0146.AVI	Bird	Amaurornis phoenicurus	1	
CT07	18/1/21	18:28:54	IMG_0147.AVI	Bird	Amaurornis phoenicurus	1	
CT07	19/1/21	6:24:28	IMG_0193.AVI	Mammal	Rattus sp.	1	
CT07	19/1/21	7:48:44	IMG_0194.AVI	Bird	Gallus gallus	3	
CT07	19/1/21	7:50:56	IMG_0196.AVI	Bird	Gallus gallus	2	
CT07	19/1/21	7:51:28	IMG_0197.AVI	Bird	Gallus gallus	1	
CT07	19/1/21	7:51:28	IMG_0197.AVI	Bird	Amaurornis phoenicurus	1	
CT07	19/1/21	8:17:50	IMG_0151.AVI	Mammal	Callosciurus notatus	1	
CT07	19/1/21	8:18:12	IMG_0152.AVI	Mammal	Callosciurus notatus	1	
CT07	19/1/21	8:19:30	IMG_0155.AVI	Mammal	Callosciurus notatus	1	
CT07	19/1/21	8:20:32	IMG_0157.AVI	Mammal	Callosciurus notatus	1	
CT07	19/1/21	8:22:32	IMG_0158.AVI	Mammal	Callosciurus notatus	1	
CT07	19/1/21	8:23:18	IMG_0159.AVI	Mammal	Callosciurus notatus	1	
CT07	19/1/21	8:24:36	IMG_0161.AVI	Mammal	Callosciurus notatus	1	
CT07	19/1/21	8:25:16	IMG_0162.AVI	Mammal	Callosciurus notatus	1	
CT07	19/1/21	8:27:44	IMG_0163.AVI	Mammal	Callosciurus notatus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT07	19/1/21	11:09:26	IMG_0166.AVI	Bird	Amaurornis phoenicurus	1	
CT07	19/1/21	11:10:56	IMG_0167.AVI	Bird	Amaurornis phoenicurus	1	
CT07	19/1/21	11:23:24	IMG_0168.AVI	Bird	Amaurornis phoenicurus	1	
CT07	19/1/21	11:26:46	IMG_0169.AVI	Bird	Amaurornis phoenicurus	1	
CT07	19/1/21	11:33:24	IMG_0170.AVI	Bird	Amaurornis phoenicurus	1	
CT07	19/1/21	11:35:42	IMG_0172.AVI	Bird	Amaurornis phoenicurus	1	
CT07	19/1/21	11:39:50	IMG_0173.AVI	Bird	Amaurornis phoenicurus	1	
CT07	19/1/21	11:40:14	IMG_0174.AVI	Bird	Amaurornis phoenicurus	1	
CT07	19/1/21	11:47:24	IMG_0175.AVI	Bird	Amaurornis phoenicurus	1	
CT07	19/1/21	11:48:32	IMG_0176.AVI	Bird	Amaurornis phoenicurus	1	
CT07	19/1/21	11:52:40	IMG_0177.AVI	Bird	Amaurornis phoenicurus	1	
CT07	19/1/21	11:54:18	IMG_0178.AVI	Bird	Amaurornis phoenicurus	1	
CT07	19/1/21	11:56:38	IMG_0179.AVI	Bird	Amaurornis phoenicurus	1	
CT07	19/1/21	12:11:52	IMG_0180.AVI	Bird	Amaurornis phoenicurus	1	
CT07	19/1/21	12:18:38	IMG_0181.AVI	Bird	Amaurornis phoenicurus	1	
CT07	19/1/21	12:20:00	IMG_0182.AVI	Bird	Amaurornis phoenicurus	1	
CT07	19/1/21	12:24:40	IMG_0183.AVI	Bird	Amaurornis phoenicurus	1	
CT07	19/1/21	14:20:12	IMG_0185.AVI	Reptile	Varanus salvator	1	
CT07	19/1/21	14:21:16	IMG_0187.AVI	Reptile	Varanus salvator	1	
CT07	19/1/21	15:19:36	IMG_0188.AVI	Bird	Chalcophaps indica	1	
CT07	19/1/21	19:14:26	IMG_0192.AVI	Bird	Amaurornis phoenicurus	1	
CT07	20/1/21	1:04:46	IMG_0221.AVI	Mammal	Rattus sp.	1	
CT07	20/1/21	1:06:22	IMG_0222.AVI	Mammal	Rattus tiomanicus	1	
CT07	20/1/21	1:07:24	IMG_0224.AVI	Mammal	Rattus sp.	1	
CT07	20/1/21	3:40:30	IMG_0225.AVI	Mammal	Rattus tiomanicus	1	
CT07	20/1/21	7:07:44	IMG_0226.AVI	Bird	Amaurornis phoenicurus	1	
CT07	20/1/21	7:18:06	IMG_0227.AVI	Bird	Gallus gallus	1	
CT07	20/1/21	7:46:46	IMG_0228.AVI	Bird	Amaurornis phoenicurus	1	
CT07	20/1/21	7:47:54	IMG_0229.AVI	Bird	Amaurornis phoenicurus	1	
CT07	20/1/21	8:07:24	IMG_0199.AVI	Bird	Amaurornis phoenicurus	1	
CT07	20/1/21	8:16:36	IMG_0200.AVI	Bird	Gallus gallus	3	
CT07	20/1/21	8:17:16	IMG_0201.AVI	Bird	Gallus gallus	3	
CT07	20/1/21	9:11:38	IMG_0202.AVI	Bird	Amaurornis phoenicurus	1	
CT07	20/1/21	12:10:42	IMG_0203.AVI	Reptile	Varanus salvator	1	
CT07	20/1/21	13:49:36	IMG_0205.AVI	Reptile	Varanus salvator	1	
CT07	20/1/21	14:11:52	IMG_0206.AVI	Bird	Amaurornis phoenicurus	1	
CT07	20/1/21	14:18:04	IMG_0207.AVI	Bird	Amaurornis phoenicurus	1	
CT07	20/1/21	14:31:12	IMG_0208.AVI	Bird	Gallus gallus	1	
CT07	20/1/21	14:36:22	IMG_0209.AVI	Bird	Gallus gallus	1	
CT07	20/1/21	15:19:56	IMG_0210.AVI	Bird	Gallus gallus	1	
CT07	20/1/21	15:36:10	IMG_0211.AVI	Bird	Amaurornis phoenicurus	1	
CT07	20/1/21	18:15:32	IMG_0213.AVI	Bird	Gallus gallus	1	
CT07	20/1/21	18:35:24	IMG_0214.AVI	Bird	Gallus gallus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT07	20/1/21	18:37:08	IMG_0215.AVI	Bird	Gallus gallus	1	
CT07	20/1/21	18:38:34	IMG_0216.AVI	Bird	Gallus gallus	1	
CT07	20/1/21	18:43:02	IMG_0218.AVI	Bird	Gallus gallus	1	
CT07	20/1/21	18:48:30	IMG_0219.AVI	Bird	Gallus gallus	1	
CT07	21/1/21	7:05:08	IMG_0238.AVI	Bird	Amaurornis phoenicurus	1	
CT07	21/1/21	7:46:54	IMG_0239.AVI	Bird	Amaurornis phoenicurus	1	
CT07	21/1/21	8:22:44	IMG_0230.AVI	Bird	Amaurornis phoenicurus	1	
CT07	21/1/21	18:09:46	IMG_0235.AVI	Bird	Amaurornis phoenicurus	1	
CT07	21/1/21	18:26:40	IMG_0236.AVI	Bird	Amaurornis phoenicurus	1	
CT07	21/1/21	19:26:18	IMG_0237.AVI	Bird	Amaurornis phoenicurus	1	
CT07	22/1/21	5:37:14	IMG_0252.AVI	Mammal	Felis catus	1	
CT07	22/1/21	6:45:40	IMG_0254.AVI	Mammal	Felis catus	1	
CT07	22/1/21	14:27:30	IMG_0240.AVI	Bird	Gallus gallus	1	
CT07	22/1/21	16:12:58	IMG_0241.AVI	Bird	Amaurornis phoenicurus	1	
CT07	22/1/21	17:59:28	IMG_0242.AVI	Bird	Gallus gallus	1	
CT07	22/1/21	17:59:50	IMG_0243.AVI	Bird	Amaurornis phoenicurus	1	
CT07	22/1/21	18:01:06	IMG_0244.AVI	Bird	Amaurornis phoenicurus	1	
CT07	22/1/21	18:01:38	IMG_0245.AVI	Bird	Amaurornis phoenicurus	1	
CT07	22/1/21	18:02:00	IMG_0246.AVI	Bird	Gallus gallus	1	
CT07	22/1/21	18:29:22	IMG_0247.AVI	Bird	Amaurornis phoenicurus	1	
CT07	22/1/21	18:54:36	IMG_0249.AVI	Bird	Amaurornis phoenicurus	1	
CT07	22/1/21	18:57:32	IMG_0250.AVI	Bird	Amaurornis phoenicurus	1	
CT07	22/1/21	19:11:30	IMG_0251.AVI	Bird	Amaurornis phoenicurus	1	
CT07	23/1/21	1:02:22	IMG_0266.AVI	Mammal	Felis catus	1	
CT07	23/1/21	1:52:24	IMG_0267.AVI	Mammal	Felis catus	1	
CT07	23/1/21	8:02:36	IMG_0255.AVI	Bird	Amaurornis phoenicurus	1	
CT07	23/1/21	12:20:06	IMG_0257.AVI	Bird	Amaurornis phoenicurus	1	
CT07	23/1/21	14:37:04	IMG_0258.AVI	Bird	Amaurornis phoenicurus	1	
CT07	23/1/21	16:28:58	IMG_0259.AVI	Mammal	Callosciurus notatus	1	
CT07	23/1/21	16:29:20	IMG_0260.AVI	Mammal	Callosciurus notatus	1	
CT07	23/1/21	16:39:08	IMG_0263.AVI	Bird	Amaurornis phoenicurus	1	
CT07	23/1/21	17:16:46	IMG_0264.AVI	Mammal	Sus scrofa	1	
CT07	23/1/21	17:34:08	IMG_0265.AVI	Bird	Gallus gallus	1	
CT07	24/1/21	7:11:04	IMG_0273.AVI	Bird	Amaurornis phoenicurus	1	
CT07	24/1/21	9:59:26	IMG_0268.AVI	Bird	Amaurornis phoenicurus	1	
CT07	24/1/21	14:38:42	IMG_0269.AVI	Bird	Amaurornis phoenicurus	1	
CT07	24/1/21	17:34:50	IMG_0270.AVI	Bird	Amaurornis phoenicurus	1	
CT07	24/1/21	17:57:42	IMG_0271.AVI	Bird	Amaurornis phoenicurus	1	
CT07	24/1/21	18:33:48	IMG_0272.AVI	Bird	Amaurornis phoenicurus	1	
CT07	25/1/21	4:04:24	IMG_0279.AVI	Mammal	Suncus murinus	1	
CT07	25/1/21	10:28:46	IMG_0274.AVI	Bird	Amaurornis phoenicurus	1	
CT07	25/1/21	10:33:50	IMG_0275.AVI	Bird	Amaurornis phoenicurus	1	
CT07	25/1/21	13:54:12	IMG_0277.AVI	Bird	Gallus gallus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT07	25/1/21	16:07:18	IMG_0278.AVI	Bird	Amaurornis phoenicurus	1	
CT07	26/1/21	8:11:18	IMG_0280.AVI	Bird	Gallus gallus	3	
CT07	26/1/21	17:54:30	IMG_0286.AVI	Bird	Centropus sinensis	1	Frog in mou
CT07	26/1/21	17:54:30	IMG_0286.AVI	Mammal	Callosciurus notatus	1	
CT07	27/1/21	7:58:16	IMG_0295.AVI	Bird	Amaurornis phoenicurus	1	
CT07	27/1/21	9:08:08	IMG_0288.AVI	Bird	Gallus gallus	3	
CT07	27/1/21	9:09:26	IMG_0289.AVI	Bird	Gallus gallus	1	
CT07	27/1/21	16:10:58	IMG_0290.AVI	Bird	Amaurornis phoenicurus	1	
CT07	27/1/21	17:19:36	IMG_0291.AVI	Bird	Amaurornis phoenicurus	1	
CT07	27/1/21	17:21:30	IMG_0292.AVI	Bird	Amaurornis phoenicurus	1	
CT07	27/1/21	19:08:04	IMG_0293.AVI	Bird	Amaurornis phoenicurus	1	
CT07	28/1/21	0:53:42	IMG_0299.AVI	Mammal	Rattus tiomanicus	1	
CT07	28/1/21	7:29:34	IMG_0300.AVI	Bird	Gallus gallus	2	
CT07	28/1/21	7:38:02	IMG_0302.AVI	Bird	Gallus gallus	1	
CT07	28/1/21	7:42:36	IMG_0303.AVI	Bird	Gallus gallus	1	
CT07	28/1/21	7:45:56	IMG_0304.AVI	Bird	Gallus gallus	1	
CT07	28/1/21	11:44:36	IMG_0296.AVI	Bird	Amaurornis phoenicurus	1	
CT07	28/1/21	16:49:02	IMG_0297.AVI	Mammal	Sus scrofa	1	
CT07	29/1/21	7:25:34	IMG_0320.AVI	Bird	Lewinia striata	1	
CT07	29/1/21	8:26:48	IMG_0305.AVI	Bird	Amaurornis phoenicurus	1	
CT07	29/1/21	8:27:44	IMG_0307.AVI	Bird	Amaurornis phoenicurus	1	
CT07	29/1/21	8:36:06	IMG_0308.AVI	Bird	Amaurornis phoenicurus	1	
CT07	29/1/21	8:43:02	IMG_0309.AVI	Bird	Amaurornis phoenicurus	1	
CT07	29/1/21	14:36:32	IMG_0310.AVI	Bird	Chalcophaps indica	1	
CT07	29/1/21	17:18:58	IMG_0311.AVI	Mammal	Callosciurus notatus	1	
CT07	29/1/21	17:20:32	IMG_0312.AVI	Mammal	Callosciurus notatus	1	
CT07	29/1/21	17:26:26	IMG_0313.AVI	Mammal	Callosciurus notatus	1	
CT07	29/1/21	17:29:18	IMG_0314.AVI	Mammal	Callosciurus notatus	1	
CT07	29/1/21	17:43:38	IMG_0315.AVI	Bird	Amaurornis phoenicurus	1	
CT07	29/1/21	17:46:40	IMG_0316.AVI	Bird	Amaurornis phoenicurus	1	
CT07	29/1/21	21:48:20	IMG_0317.AVI	Mammal	Rattus tiomanicus	3	
CT07	29/1/21	22:27:18	IMG_0318.AVI	Mammal	Rattus sp.	1	
CT07	29/1/21	22:28:54	IMG_0319.AVI	Mammal	Rattus tiomanicus	1	
CT07	30/1/21	9:35:06	IMG_0322.AVI	Bird	Gallus gallus	3	
CT07	30/1/21	9:35:06	IMG_0322.AVI	Bird	Amaurornis phoenicurus	1	
CT07	30/1/21	9:39:56	IMG_0323.AVI	Bird	Amaurornis phoenicurus	1	
CT07	30/1/21	9:56:58	IMG_0324.AVI	Bird	Amaurornis phoenicurus	1	
CT07	30/1/21	10:04:14	IMG_0325.AVI	Bird	Amaurornis phoenicurus	1	
CT07	30/1/21	10:43:36	IMG_0326.AVI	Bird	Amaurornis phoenicurus	1	
CT07	30/1/21	10:59:10	IMG_0328.AVI	Bird	Gallus gallus	2	
CT07	30/1/21	12:08:06	IMG_0329.AVI	Mammal	Callosciurus notatus	1	
CT07	30/1/21	13:25:10	IMG_0330.AVI	Bird	Lewinia striata	1	
CT07	30/1/21	19:10:36	IMG_0334.AVI	Bird	Amaurornis phoenicurus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT07	30/1/21	22:21:40	IMG_0335.AVI	Mammal	Sus scrofa	1	
CT07	31/1/21	8:30:28	IMG_0337.AVI	Mammal	Callosciurus notatus	1	
CT07	31/1/21	8:55:12	IMG_0338.AVI	Bird	Amaurornis phoenicurus	1	
CT07	31/1/21	9:31:10	IMG_0339.AVI	Bird	Gallus gallus	1	
CT07	31/1/21	10:12:26	IMG_0340.AVI	Bird	Amaurornis phoenicurus	1	
CT07	31/1/21	10:41:24	IMG_0341.AVI	Bird	Amaurornis phoenicurus	1	
CT07	31/1/21	10:47:08	IMG_0342.AVI	Bird	Amaurornis phoenicurus	1	
CT07	31/1/21	10:47:36	IMG_0343.AVI	Bird	Amaurornis phoenicurus	1	
CT07	31/1/21	12:02:42	IMG_0344.AVI	Bird	Amaurornis phoenicurus	1	
CT07	31/1/21	12:13:24	IMG_0345.AVI	Bird	Amaurornis phoenicurus	1	
CT07	31/1/21	13:52:16	IMG_0346.AVI	Bird	Centropus sinensis	1	
CT07	31/1/21	14:25:10	IMG_0348.AVI	Mammal	Callosciurus notatus	1	
CT07	31/1/21	16:46:38	IMG_0349.AVI	Bird	Amaurornis phoenicurus	1	
CT07	31/1/21	17:41:58	IMG_0350.AVI	Bird	Amaurornis phoenicurus	1	
CT07	31/1/21	18:24:18	IMG_0351.AVI	Bird	Amaurornis phoenicurus	1	
CT07	31/1/21	19:24:02	IMG_0352.AVI	Bird	Pitta moluccensis	1	
CT07	31/1/21	19:24:24	IMG_0353.AVI	Bird	Amaurornis phoenicurus	1	
CT07	31/1/21	19:24:24	IMG_0353.AVI	Bird	Pitta moluccensis	1	
CT07	31/1/21	19:30:20	IMG_0354.AVI	Bird	Amaurornis phoenicurus	1	
CT07	1/2/21	9:42:54	IMG_0355.AVI	Bird	Amaurornis phoenicurus	1	
CT07	1/2/21	11:48:58	IMG_0356.AVI	Bird	Amaurornis phoenicurus	1	
CT07	1/2/21	11:58:42	IMG_0357.AVI	Bird	Amaurornis phoenicurus	1	
CT07	1/2/21	19:17:30	IMG_0359.AVI	Bird	Gallus gallus	1	
CT07	2/2/21	13:01:04	IMG_0361.AVI	Bird	Amaurornis phoenicurus	1	
CT07	2/2/21	13:05:58	IMG_0362.AVI	Bird	Amaurornis phoenicurus	1	
CT07	2/2/21	17:29:46	IMG_0363.AVI	Bird	Amaurornis phoenicurus	1	
CT07	3/2/21	7:13:08	IMG_0382.AVI	Bird	Amaurornis phoenicurus	1	
CT07	3/2/21	7:20:16	IMG_0383.AVI	Bird	Gallus gallus	1	
CT07	3/2/21	8:44:08	IMG_0364.AVI	Bird	Amaurornis phoenicurus	1	
CT07	3/2/21	10:17:48	IMG_0365.AVI	Bird	Amaurornis phoenicurus	1	
CT07	3/2/21	11:09:16	IMG_0366.AVI	Mammal	Callosciurus notatus	1	
CT07	3/2/21	11:09:16	IMG_0366.AVI	Bird	Amaurornis phoenicurus	1	
CT07	3/2/21	12:31:10	IMG_0367.AVI	Bird	Amaurornis phoenicurus	1	
CT07	3/2/21	12:39:10	IMG_0368.AVI	Bird	Amaurornis phoenicurus	1	
CT07	3/2/21	12:47:16	IMG_0369.AVI	Bird	Amaurornis phoenicurus	1	
CT07	3/2/21	12:53:54	IMG_0371.AVI	Bird	Amaurornis phoenicurus	1	
CT07	3/2/21	12:56:14	IMG_0372.AVI	Bird	Amaurornis phoenicurus	1	
CT07	3/2/21	13:44:44	IMG_0373.AVI	Bird	Amaurornis phoenicurus	1	
CT07	3/2/21	14:25:56	IMG_0374.AVI	Bird	Amaurornis phoenicurus	1	
CT07	3/2/21	14:32:10	IMG_0377.AVI	Reptile	Varanus sp.	1	
CT07	3/2/21	18:37:38	IMG_0379.AVI	Bird	Gallus gallus	1	
CT07	3/2/21	19:30:14	IMG_0380.AVI	Bird	Lewinia striata	1	
CT07	3/2/21	22:34:36	IMG_0381.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT07	4/2/21	1:35:48	IMG_0396.AVI	Mammal	Sus scrofa	1	
CT07	4/2/21	7:10:24	IMG_0398.AVI	Bird	Amaurornis phoenicurus	1	
CT07	4/2/21	8:05:18	IMG_0384.AVI	Bird	Amaurornis phoenicurus	1	
CT07	4/2/21	9:19:42	IMG_0385.AVI	Bird	Amaurornis phoenicurus	1	
CT07	4/2/21	9:21:08	IMG_0386.AVI	Bird	Amaurornis phoenicurus	1	
CT07	4/2/21	12:08:18	IMG_0387.AVI	Bird	Chalcophaps indica	1	
CT07	4/2/21	12:10:18	IMG_0388.AVI	Bird	Chalcophaps indica	1	
CT07	4/2/21	13:26:12	IMG_0389.AVI	Bird	Amaurornis phoenicurus	1	
CT07	4/2/21	13:38:42	IMG_0390.AVI	Bird	Amaurornis phoenicurus	1	
CT07	4/2/21	14:08:42	IMG_0391.AVI	Bird	Amaurornis phoenicurus	1	
CT07	4/2/21	14:54:08	IMG_0392.AVI	Bird	Amaurornis phoenicurus	1	
CT07	4/2/21	15:11:42	IMG_0393.AVI	Bird	Amaurornis phoenicurus	1	
CT07	5/2/21	7:43:42	IMG_0409.AVI	Bird	Gallus gallus	1	
CT07	5/2/21	13:06:32	IMG_0399.AVI	Reptile	Varanus salvator	1	
CT07	5/2/21	13:43:48	IMG_0400.AVI	Bird	Amaurornis phoenicurus	1	
CT07	5/2/21	14:04:42	IMG_0402.AVI	Bird	Amaurornis phoenicurus	1	
CT07	5/2/21	14:05:24	IMG_0403.AVI	Bird	Amaurornis phoenicurus	1	
CT07	5/2/21	15:05:14	IMG_0404.AVI	Bird	Amaurornis phoenicurus	1	
CT07	5/2/21	15:06:20	IMG_0405.AVI	Bird	Amaurornis phoenicurus	1	
CT07	5/2/21	15:11:44	IMG_0406.AVI	Bird	Amaurornis phoenicurus	1	
CT07	5/2/21	15:45:36	IMG_0407.AVI	Bird	Amaurornis phoenicurus	1	
CT07	6/2/21	2:59:50	IMG_0413.AVI	Mammal	Suncus murinus	1	
CT07	6/2/21	7:14:32	IMG_0414.AVI	Bird	Amaurornis phoenicurus	1	
CT07	6/2/21	7:54:32	IMG_0415.AVI	Bird	Amaurornis phoenicurus	1	
CT07	6/2/21	17:59:06	IMG_0410.AVI	Bird	Amaurornis phoenicurus	1	
CT07	6/2/21	18:12:30	IMG_0411.AVI	Bird	Amaurornis phoenicurus	1	
CT07	6/2/21	18:57:24	IMG_0412.AVI	Bird	Amaurornis phoenicurus	1	
CT07	7/2/21	8:01:36	IMG_0416.AVI	Bird	Amaurornis phoenicurus	1	
CT07	7/2/21	9:19:16	IMG_0417.AVI	Bird	Amaurornis phoenicurus	1	
CT07	7/2/21	9:24:32	IMG_0418.AVI	Bird	Amaurornis phoenicurus	1	
CT07	7/2/21	9:27:14	IMG_0419.AVI	Bird	Amaurornis phoenicurus	1	
CT07	7/2/21	9:35:26	IMG_0420.AVI	Bird	Amaurornis phoenicurus	1	
CT07	7/2/21	9:38:20	IMG_0421.AVI	Bird	Amaurornis phoenicurus	1	
CT07	7/2/21	11:24:32	IMG_0422.AVI	Bird	Amaurornis phoenicurus	1	
CT07	7/2/21	11:26:04	IMG_0423.AVI	Bird	Amaurornis phoenicurus	1	
CT07	7/2/21	11:26:40	IMG_0424.AVI	Bird	Gallus gallus	1	
CT07	2/7/21	12:47:10	IMG_0005.AVI	Mammal	Callosciurus notatus	1	
CT07	2/7/21	12:51:34	IMG_0006.AVI	Mammal	Callosciurus notatus	1	
CT07	2/7/21	12:53:24	IMG_0007.AVI	Mammal	Callosciurus notatus	1	
CT07	2/7/21	12:54:52	IMG_0008.AVI	Mammal	Callosciurus notatus	1	
CT07	2/7/21	12:55:26	IMG_0009.AVI	Mammal	Callosciurus notatus	1	
CT07	2/7/21	12:59:20	IMG_0011.AVI	Mammal	Callosciurus notatus	1	
CT07	2/7/21	12:59:20	IMG_0011.AVI	Bird	Amaurornis phoenicurus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT07	2/7/21	14:02:18	IMG_0012.AVI	Mammal	Callosciurus notatus	1	
CT07	2/7/21	14:04:18	IMG_0014.AVI	Mammal	Callosciurus notatus	2	
CT07	2/7/21	14:05:36	IMG_0015.AVI	Bird	Amaurornis phoenicurus	1	
CT07	2/7/21	14:07:52	IMG_0016.AVI	Mammal	Callosciurus notatus	2	
CT07	2/7/21	15:03:14	IMG_0017.AVI	Mammal	Callosciurus notatus	2	
CT07	2/7/21	15:08:14	IMG_0018.AVI	Mammal	Callosciurus notatus	2	
CT07	2/7/21	15:09:24	IMG_0021.AVI	Mammal	Callosciurus notatus	1	
CT07	2/7/21	15:26:54	IMG_0023.AVI	Mammal	Callosciurus notatus	1	
CT07	2/7/21	15:27:16	IMG_0024.AVI	Mammal	Callosciurus notatus	1	
CT07	2/7/21	15:28:24	IMG_0027.AVI	Mammal	Callosciurus notatus	1	
CT07	2/7/21	15:59:16	IMG_0029.AVI	Mammal	Callosciurus notatus	1	
CT07	2/7/21	16:00:22	IMG_0031.AVI	Mammal	Callosciurus notatus	1	
CT07	2/7/21	16:04:08	IMG_0032.AVI	Mammal	Callosciurus notatus	1	
CT07	2/7/21	16:29:32	IMG_0033.AVI	Mammal	Lutrogale perspicillata	1	
CT07	2/7/21	16:36:26	IMG_0034.AVI	Mammal	Callosciurus notatus	1	
CT07	2/7/21	16:40:00	IMG_0035.AVI	Mammal	Callosciurus notatus	1	
CT07	2/7/21	16:57:52	IMG_0036.AVI	Bird	Amaurornis phoenicurus	1	
CT07	2/7/21	17:21:14	IMG_0037.AVI	Mammal	Callosciurus notatus	1	
CT07	2/7/21	17:54:28	IMG_0038.AVI	Bird	Gallus gallus	1	
CT07	3/7/21	8:48:56	IMG_0040.AVI	Bird	Amaurornis phoenicurus	1	
CT07	3/7/21	8:49:16	IMG_0041.AVI	Bird	Amaurornis phoenicurus	1	
CT07	3/7/21	8:51:16	IMG_0044.AVI	Bird	Amaurornis phoenicurus	1	
CT07	3/7/21	8:57:16	IMG_0046.AVI	Bird	Amaurornis phoenicurus	1	
CT07	3/7/21	8:59:32	IMG_0047.AVI	Bird	Amaurornis phoenicurus	1	
CT07	3/7/21	9:51:46	IMG_0048.AVI	Mammal	Callosciurus notatus	1	
CT07	3/7/21	9:56:38	IMG_0049.AVI	Bird	Amaurornis phoenicurus	1	
CT07	3/7/21	12:32:14	IMG_0050.AVI	Bird	Amaurornis phoenicurus	1	
CT07	3/7/21	13:24:18	IMG_0051.AVI	Bird	Amaurornis phoenicurus	1	
CT07	3/7/21	15:38:00	IMG_0052.AVI	Bird	Gallus gallus	1	
CT07	3/7/21	16:22:24	IMG_0053.AVI	Bird	Gallus gallus	1	
CT07	3/7/21	16:57:56	IMG_0054.AVI	Mammal	Callosciurus notatus	1	
CT07	3/7/21	18:30:48	IMG_0055.AVI	Mammal	Tupaia glis	1	
CT07	3/7/21	18:31:24	IMG_0056.AVI	Bird	Gallus gallus	1	
CT07	4/7/21	8:26:14	IMG_0057.AVI	Mammal	Tupaia glis	1	
CT07	4/7/21	10:17:58	IMG_0058.AVI	Mammal	Callosciurus notatus	1	
CT07	4/7/21	10:42:22	IMG_0059.AVI	Bird	Amaurornis phoenicurus	1	
CT07	4/7/21	10:47:20	IMG_0060.AVI	Mammal	Callosciurus notatus	1	
CT07	4/7/21	11:18:14	IMG_0061.AVI	Mammal	Callosciurus notatus	1	
CT07	4/7/21	11:19:28	IMG_0062.AVI	Mammal	Callosciurus notatus	1	
CT07	4/7/21	19:07:04	IMG_0064.AVI	Bird	Amaurornis phoenicurus	1	
CT07	4/7/21	19:08:44	IMG_0065.AVI	Bird	Amaurornis phoenicurus	1	
CT07	4/7/21	19:10:28	IMG_0066.AVI	Bird	Amaurornis phoenicurus	1	
CT07	5/7/21	5:43:28	IMG_0085.AVI	Mammal	Suncus murinus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT07	5/7/21	7:20:06	IMG_0087.AVI	Bird	Amaurornis phoenicurus	1	
CT07	5/7/21	8:03:44	IMG_0067.AVI	Bird	Amaurornis phoenicurus	1	
CT07	5/7/21	10:46:14	IMG_0068.AVI	Bird	Amaurornis phoenicurus	1	
CT07	5/7/21	11:33:02	IMG_0069.AVI	Bird	Amaurornis phoenicurus	1	
CT07	5/7/21	12:57:20	IMG_0070.AVI	Mammal	Tupaia glis	1	
CT07	5/7/21	13:31:14	IMG_0071.AVI	Bird	Amaurornis phoenicurus	1	
CT07	5/7/21	13:52:22	IMG_0072.AVI	Bird	Amaurornis phoenicurus	1	
CT07	5/7/21	14:12:28	IMG_0073.AVI	Bird	Amaurornis phoenicurus	1	
CT07	5/7/21	15:02:56	IMG_0074.AVI	Bird	Amaurornis phoenicurus	1	
CT07	5/7/21	15:10:34	IMG_0075.AVI	Bird	Amaurornis phoenicurus	1	
CT07	5/7/21	15:30:02	IMG_0076.AVI	Bird	Amaurornis phoenicurus	1	
CT07	5/7/21	16:57:14	IMG_0078.AVI	Bird	Amaurornis phoenicurus	1	
CT07	5/7/21	17:12:26	IMG_0079.AVI	Bird	Amaurornis phoenicurus	1	
CT07	5/7/21	17:42:14	IMG_0080.AVI	Bird	Amaurornis phoenicurus	1	
CT07	5/7/21	18:17:40	IMG_0081.AVI	Bird	Amaurornis phoenicurus	1	
CT07	5/7/21	18:29:48	IMG_0082.AVI	Bird	Amaurornis phoenicurus	1	
CT07	5/7/21	18:33:26	IMG_0083.AVI	Bird	Amaurornis phoenicurus	1	
CT07	5/7/21	18:35:36	IMG_0084.AVI	Bird	Amaurornis phoenicurus	1	
CT07	6/7/21	7:13:54	IMG_0116.AVI	Bird	Amaurornis phoenicurus	1	
CT07	6/7/21	7:31:40	IMG_0117.AVI	Bird	Amaurornis phoenicurus	1	
CT07	6/7/21	8:25:34	IMG_0088.AVI	Bird	Gallus gallus	1	
CT07	6/7/21	8:32:32	IMG_0089.AVI	Bird	Amaurornis phoenicurus	1	
CT07	6/7/21	8:37:44	IMG_0090.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT07	6/7/21	8:40:34	IMG_0091.AVI	Mammal	Callosciurus notatus	1	
CT07	6/7/21	8:54:40	IMG_0092.AVI	Bird	Gallus gallus	1	
CT07	6/7/21	9:00:54	IMG_0093.AVI	Bird	Gallus gallus	4	
CT07	6/7/21	9:01:16	IMG_0094.AVI	Bird	Gallus gallus	1	
CT07	6/7/21	10:42:08	IMG_0095.AVI	Mammal	Callosciurus notatus	1	
CT07	6/7/21	10:59:48	IMG_0096.AVI	Bird	Amaurornis phoenicurus	2	
CT07	6/7/21	11:27:26	IMG_0097.AVI	Bird	Amaurornis phoenicurus	1	
CT07	6/7/21	11:30:58	IMG_0098.AVI	Bird	Amaurornis phoenicurus	1	
CT07	6/7/21	12:10:54	IMG_0099.AVI	Bird	Amaurornis phoenicurus	1	
CT07	6/7/21	12:20:30	IMG_0100.AVI	Bird	Amaurornis phoenicurus	1	
CT07	6/7/21	13:14:26	IMG_0101.AVI	Bird	Amaurornis phoenicurus	1	
CT07	6/7/21	13:15:36	IMG_0102.AVI	Bird	Amaurornis phoenicurus	1	
CT07	6/7/21	13:34:56	IMG_0103.AVI	Bird	Amaurornis phoenicurus	1	
CT07	6/7/21	13:50:50	IMG_0104.AVI	Bird	Amaurornis phoenicurus	1	
CT07	6/7/21	14:52:04	IMG_0106.AVI	Bird	Amaurornis phoenicurus	1	
CT07	6/7/21	15:01:08	IMG_0107.AVI	Bird	Gallus gallus	1	
CT07	6/7/21	15:01:32	IMG_0108.AVI	Bird	Gallus gallus	1	
CT07	6/7/21	15:31:20	IMG_0109.AVI	Bird	Amaurornis phoenicurus	1	
CT07	6/7/21	15:37:34	IMG_0110.AVI	Mammal	Tupaia glis	1	
CT07	6/7/21	15:46:00	IMG_0111.AVI	Bird	Amaurornis phoenicurus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT07	6/7/21	17:36:30	IMG_0112.AVI	Bird	Amaurornis phoenicurus	1	
CT07	6/7/21	18:29:54	IMG_0113.AVI	Bird	Amaurornis phoenicurus	1	
CT07	6/7/21	18:34:02	IMG_0114.AVI	Bird	Amaurornis phoenicurus	1	
CT07	6/7/21	18:54:04	IMG_0115.AVI	Bird	Gallus gallus	1	
CT07	7/7/21	7:14:26	IMG_0123.AVI	Mammal	Callosciurus notatus	1	
CT07	7/7/21	7:14:56	IMG_0124.AVI	Bird	Amaurornis phoenicurus	1	
CT07	7/7/21	7:18:50	IMG_0125.AVI	Bird	Amaurornis phoenicurus	1	
CT07	7/7/21	16:06:50	IMG_0118.AVI	Mammal	Callosciurus notatus	1	
CT07	7/7/21	16:15:38	IMG_0119.AVI	Bird	Amaurornis phoenicurus	1	startled_cra
CT07	7/7/21	18:41:00	IMG_0120.AVI	Bird	Amaurornis phoenicurus	1	
CT07	7/7/21	19:03:12	IMG_0121.AVI	Bird	Amaurornis phoenicurus	1	
CT07	7/7/21	19:18:20	IMG_0122.AVI	Bird	Amaurornis phoenicurus	1	
CT07	8/7/21	2:53:20	IMG_0139.AVI	Mammal	Rattus sp.	1	
CT07	8/7/21	8:33:04	IMG_0126.AVI	Bird	Amaurornis phoenicurus	1	
CT07	8/7/21	8:51:40	IMG_0127.AVI	Bird	Amaurornis phoenicurus	1	
CT07	8/7/21	9:58:42	IMG_0128.AVI	Bird	Gallus gallus	4	
CT07	8/7/21	10:15:20	IMG_0129.AVI	Bird	Amaurornis phoenicurus	1	
CT07	8/7/21	10:52:34	IMG_0130.AVI	Bird	Amaurornis phoenicurus	1	
CT07	8/7/21	11:14:06	IMG_0131.AVI	Bird	Gallus gallus	1	
CT07	8/7/21	13:05:08	IMG_0133.AVI	Bird	Amaurornis phoenicurus	1	
CT07	8/7/21	13:13:34	IMG_0134.AVI	Bird	Amaurornis phoenicurus	1	
CT07	8/7/21	13:25:22	IMG_0135.AVI	Bird	Amaurornis phoenicurus	1	
CT07	8/7/21	15:39:00	IMG_0136.AVI	Mammal	Callosciurus notatus	1	
CT07	8/7/21	16:09:00	IMG_0137.AVI	Bird	Amaurornis phoenicurus	1	
CT07	8/7/21	22:59:46	IMG_0138.AVI	Mammal	Sus scrofa	1	
CT07	9/7/21	11:02:10	IMG_0140.AVI	Bird	Amaurornis phoenicurus	1	
CT07	9/7/21	11:21:20	IMG_0141.AVI	Bird	Amaurornis phoenicurus	1	
CT07	9/7/21	11:30:32	IMG_0142.AVI	Bird	Amaurornis phoenicurus	1	
CT07	9/7/21	11:49:14	IMG_0143.AVI	Bird	Amaurornis phoenicurus	1	
CT07	9/7/21	14:13:50	IMG_0146.AVI	Bird	Amaurornis phoenicurus	1	
CT07	9/7/21	16:03:24	IMG_0147.AVI	Bird	Amaurornis phoenicurus	1	
CT07	9/7/21	18:04:42	IMG_0149.AVI	Bird	Amaurornis phoenicurus	1	
CT07	9/7/21	19:07:48	IMG_0150.AVI	Bird	Amaurornis phoenicurus	1	
CT07	9/7/21	19:20:10	IMG_0151.AVI	Mammal	Sus scrofa	1	
CT07	9/7/21	19:32:18	IMG_0152.AVI	Bird	Amaurornis phoenicurus	1	
CT07	10/7/21	9:35:26	IMG_0153.AVI	Bird	Gallus gallus	3	
CT07	10/7/21	11:10:36	IMG_0155.AVI	Bird	Amaurornis phoenicurus	1	
CT07	10/7/21	11:13:14	IMG_0156.AVI	Bird	Amaurornis phoenicurus	1	
CT07	10/7/21	11:29:00	IMG_0159.AVI	Bird	Amaurornis phoenicurus	1	
CT07	10/7/21	12:02:06	IMG_0160.AVI	Reptile	Varanus salvator	1	
CT07	10/7/21	12:02:30	IMG_0161.AVI	Bird	Amaurornis phoenicurus	1	
CT07	10/7/21	12:06:08	IMG_0162.AVI	Bird	Amaurornis phoenicurus	1	
CT07	10/7/21	12:40:04	IMG_0163.AVI	Bird	Amaurornis phoenicurus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT07	10/7/21	12:40:30	IMG_0164.AVI	Bird	Amaurornis phoenicurus	1	
CT07	10/7/21	13:26:58	IMG_0165.AVI	Bird	Amaurornis phoenicurus	1	
CT07	10/7/21	13:49:08	IMG_0166.AVI	Bird	Amaurornis phoenicurus	1	
CT07	10/7/21	13:58:46	IMG_0167.AVI	Bird	Gallus gallus	4	
CT07	10/7/21	13:59:38	IMG_0168.AVI	Bird	Gallus gallus	1	
CT07	10/7/21	16:01:32	IMG_0169.AVI	Bird	Amaurornis phoenicurus	1	
CT07	10/7/21	16:21:56	IMG_0170.AVI	Bird	Amaurornis phoenicurus	1	
CT07	10/7/21	17:42:02	IMG_0171.AVI	Bird	Amaurornis phoenicurus	1	
CT07	10/7/21	17:54:40	IMG_0172.AVI	Bird	Amaurornis phoenicurus	1	
CT07	10/7/21	18:42:42	IMG_0173.AVI	Bird	Amaurornis phoenicurus	1	
CT07	11/7/21	7:15:04	IMG_0186.AVI	Bird	Amaurornis phoenicurus	1	
CT07	11/7/21	7:26:00	IMG_0187.AVI	Mammal	Callosciurus notatus	3	
CT07	11/7/21	8:56:30	IMG_0174.AVI	Bird	Amaurornis phoenicurus	1	
CT07	11/7/21	9:44:08	IMG_0175.AVI	Bird	Amaurornis phoenicurus	1	
CT07	11/7/21	12:41:38	IMG_0177.AVI	Bird	Amaurornis phoenicurus	1	
CT07	11/7/21	15:11:44	IMG_0178.AVI	Bird	Amaurornis phoenicurus	1	
CT07	11/7/21	16:28:32	IMG_0180.AVI	Bird	Amaurornis phoenicurus	1	
CT07	11/7/21	17:40:56	IMG_0181.AVI	Bird	Amaurornis phoenicurus	1	
CT07	11/7/21	19:00:28	IMG_0182.AVI	Bird	Amaurornis phoenicurus	1	
CT07	11/7/21	19:04:58	IMG_0183.AVI	Bird	Amaurornis phoenicurus	1	
CT07	11/7/21	19:05:28	IMG_0184.AVI	Bird	Gallus gallus	1	
CT07	11/7/21	19:28:10	IMG_0185.AVI	Bird	Amaurornis phoenicurus	1	
CT07	12/7/21	7:08:44	IMG_0227.AVI	Bird	Amaurornis phoenicurus	1	
CT07	12/7/21	8:02:28	IMG_0188.AVI	Bird	Amaurornis phoenicurus	1	
CT07	12/7/21	8:06:30	IMG_0190.AVI	Bird	Amaurornis phoenicurus	1	
CT07	12/7/21	9:08:24	IMG_0191.AVI	Mammal	Callosciurus notatus	1	
CT07	12/7/21	9:16:52	IMG_0192.AVI	Bird	Amaurornis phoenicurus	1	
CT07	12/7/21	9:17:42	IMG_0193.AVI	Mammal	Callosciurus notatus	1	
CT07	12/7/21	9:34:18	IMG_0194.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT07	12/7/21	9:38:04	IMG_0195.AVI	Mammal	Callosciurus notatus	1	
CT07	12/7/21	9:42:00	IMG_0196.AVI	Mammal	Callosciurus notatus	1	
CT07	12/7/21	10:03:34	IMG_0197.AVI	Bird	Amaurornis phoenicurus	1	
CT07	12/7/21	10:37:28	IMG_0198.AVI	Mammal	Callosciurus notatus	1	
CT07	12/7/21	10:57:08	IMG_0199.AVI	Mammal	Callosciurus notatus	1	
CT07	12/7/21	11:26:10	IMG_0200.AVI	Bird	Amaurornis phoenicurus	1	
CT07	12/7/21	11:53:10	IMG_0201.AVI	Bird	Amaurornis phoenicurus	1	
CT07	12/7/21	11:58:00	IMG_0202.AVI	Bird	Amaurornis phoenicurus	1	
CT07	12/7/21	12:15:28	IMG_0203.AVI	Bird	Amaurornis phoenicurus	1	
CT07	12/7/21	12:16:30	IMG_0205.AVI	Bird	Amaurornis phoenicurus	1	
CT07	12/7/21	12:19:10	IMG_0206.AVI	Bird	Amaurornis phoenicurus	1	
CT07	12/7/21	12:34:00	IMG_0209.AVI	Bird	Amaurornis phoenicurus	1	
CT07	12/7/21	12:34:22	IMG_0210.AVI	Bird	Amaurornis phoenicurus	1	
CT07	12/7/21	12:51:38	IMG_0211.AVI	Bird	Amaurornis phoenicurus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT07	12/7/21	13:00:24	IMG_0212.AVI	Bird	Amaurornis phoenicurus	1	
CT07	12/7/21	13:44:02	IMG_0213.AVI	Mammal	Callosciurus notatus	1	
CT07	12/7/21	13:44:02	IMG_0213.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT07	12/7/21	13:50:06	IMG_0214.AVI	Bird	Amaurornis phoenicurus	1	
CT07	12/7/21	14:11:00	IMG_0215.AVI	Bird	Amaurornis phoenicurus	1	
CT07	12/7/21	14:59:22	IMG_0216.AVI	Bird	Amaurornis phoenicurus	1	
CT07	12/7/21	15:28:12	IMG_0217.AVI	Reptile	Varanus salvator	1	
CT07	12/7/21	15:53:22	IMG_0218.AVI	Bird	Amaurornis phoenicurus	1	
CT07	12/7/21	16:40:40	IMG_0222.AVI	Bird	Amaurornis phoenicurus	1	
CT07	12/7/21	19:17:22	IMG_0223.AVI	Bird	Amaurornis phoenicurus	1	
CT07	12/7/21	19:22:28	IMG_0224.AVI	Bird	Amaurornis phoenicurus	1	
CT07	12/7/21	19:26:48	IMG_0225.AVI	Bird	Amaurornis phoenicurus	1	
CT07	12/7/21	19:32:46	IMG_0226.AVI	Bird	Amaurornis phoenicurus	1	
CT07	13/7/21	7:11:38	IMG_0249.AVI	Bird	Amaurornis phoenicurus	1	
CT07	13/7/21	11:38:14	IMG_0230.AVI	Reptile	Varanus salvator	1	
CT07	13/7/21	12:07:50	IMG_0232.AVI	Bird	Amaurornis phoenicurus	1	
CT07	13/7/21	12:27:48	IMG_0233.AVI	Bird	Amaurornis phoenicurus	1	
CT07	13/7/21	12:39:04	IMG_0234.AVI	Bird	Amaurornis phoenicurus	1	
CT07	13/7/21	12:51:42	IMG_0235.AVI	Bird	Amaurornis phoenicurus	1	
CT07	13/7/21	13:16:18	IMG_0236.AVI	Bird	Amaurornis phoenicurus	1	
CT07	13/7/21	13:21:56	IMG_0237.AVI	Bird	Amaurornis phoenicurus	1	
CT07	13/7/21	13:24:12	IMG_0238.AVI	Reptile	Varanus salvator	1	
CT07	13/7/21	13:41:14	IMG_0239.AVI	Bird	Amaurornis phoenicurus	1	
CT07	13/7/21	13:47:56	IMG_0240.AVI	Bird	Amaurornis phoenicurus	1	
CT07	13/7/21	17:01:28	IMG_0241.AVI	Bird	Gallus gallus	1	
CT07	13/7/21	17:11:16	IMG_0242.AVI	Bird	Amaurornis phoenicurus	1	
CT07	13/7/21	17:26:52	IMG_0243.AVI	Bird	Amaurornis phoenicurus	1	
CT07	13/7/21	18:33:30	IMG_0244.AVI	Bird	Gallus gallus	1	
CT07	13/7/21	18:37:16	IMG_0245.AVI	Bird	Gallus gallus	1	
CT07	13/7/21	19:12:42	IMG_0247.AVI	Bird	Amaurornis phoenicurus	1	
CT07	13/7/21	19:17:44	IMG_0248.AVI	Bird	Amaurornis phoenicurus	1	
CT07	14/7/21	11:50:26	IMG_0250.AVI	Bird	Gallus gallus	3	
CT07	14/7/21	13:32:34	IMG_0252.AVI	Bird	Amaurornis phoenicurus	1	
CT07	14/7/21	13:34:36	IMG_0253.AVI	Bird	Amaurornis phoenicurus	1	
CT07	14/7/21	13:34:58	IMG_0254.AVI	Bird	Geopelia striata	1	
CT07	14/7/21	14:01:16	IMG_0255.AVI	Bird	Amaurornis phoenicurus	1	
CT07	14/7/21	14:07:24	IMG_0256.AVI	Bird	Amaurornis phoenicurus	1	
CT07	14/7/21	14:18:38	IMG_0257.AVI	Bird	Gallus gallus	1	
CT07	14/7/21	14:21:20	IMG_0258.AVI	Bird	Amaurornis phoenicurus	1	
CT07	14/7/21	15:52:56	IMG_0259.AVI	Mammal	Callosciurus notatus	1	
CT07	14/7/21	15:59:14	IMG_0260.AVI	Mammal	Callosciurus notatus	1	
CT07	14/7/21	17:52:40	IMG_0262.AVI	Bird	Amaurornis phoenicurus	1	
CT07	14/7/21	17:55:16	IMG_0263.AVI	Bird	Amaurornis phoenicurus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT07	14/7/21	19:03:50	IMG_0264.AVI	Bird	Amaurornis phoenicurus	1	
CT07	15/7/21	7:06:48	IMG_0270.AVI	Mammal	Sus scrofa	1	
CT07	15/7/21	7:15:08	IMG_0271.AVI	Bird	Amaurornis phoenicurus	1	
CT07	15/7/21	13:36:20	IMG_0265.AVI	Bird	Amaurornis phoenicurus	1	
CT07	15/7/21	13:39:04	IMG_0266.AVI	Bird	Amaurornis phoenicurus	1	
CT07	15/7/21	19:10:30	IMG_0267.AVI	Bird	Amaurornis phoenicurus	1	
CT07	15/7/21	19:11:10	IMG_0268.AVI	Bird	Amaurornis phoenicurus	1	
CT07	15/7/21	19:13:00	IMG_0269.AVI	Bird	Amaurornis phoenicurus	1	
CT07	16/7/21	7:12:50	IMG_0298.AVI	Bird	Amaurornis phoenicurus	1	
CT07	16/7/21	7:49:50	IMG_0299.AVI	Bird	Gallus gallus	1	
CT07	16/7/21	7:50:36	IMG_0300.AVI	Bird	Gallus gallus	3	
CT07	16/7/21	7:51:22	IMG_0302.AVI	Bird	Gallus gallus	3	
CT07	16/7/21	7:51:58	IMG_0303.AVI	Mammal	Tupaia glis	1	
CT07	16/7/21	7:55:04	IMG_0304.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT07	16/7/21	7:55:24	IMG_0305.AVI	Mammal	Callosciurus notatus	1	
CT07	16/7/21	7:55:24	IMG_0305.AVI	Mammal	Tupaia glis	1	
CT07	16/7/21	7:58:18	IMG_0306.AVI	Bird	Gallus gallus	1	
CT07	16/7/21	8:11:18	IMG_0272.AVI	Bird	Amaurornis phoenicurus	1	
CT07	16/7/21	8:16:52	IMG_0273.AVI	Bird	Amaurornis phoenicurus	1	
CT07	16/7/21	8:31:38	IMG_0274.AVI	Mammal	Callosciurus notatus	1	
CT07	16/7/21	11:46:56	IMG_0275.AVI	Mammal	Callosciurus notatus	1	
CT07	16/7/21	12:26:48	IMG_0276.AVI	Bird	Amaurornis phoenicurus	1	
CT07	16/7/21	12:40:46	IMG_0277.AVI	Bird	Gallus gallus	1	
CT07	16/7/21	12:47:02	IMG_0278.AVI	Mammal	Callosciurus notatus	1	
CT07	16/7/21	12:47:02	IMG_0278.AVI	Mammal	Tupaia glis	1	
CT07	16/7/21	12:55:24	IMG_0279.AVI	Bird	Amaurornis phoenicurus	1	
CT07	16/7/21	13:04:56	IMG_0280.AVI	Bird	Amaurornis phoenicurus	1	
CT07	16/7/21	15:43:44	IMG_0281.AVI	Mammal	Callosciurus notatus	1	
CT07	16/7/21	15:44:24	IMG_0282.AVI	Mammal	Callosciurus notatus	1	
CT07	16/7/21	16:28:44	IMG_0283.AVI	Mammal	Callosciurus notatus	2	
CT07	16/7/21	17:23:16	IMG_0284.AVI	Bird	Gallus gallus	1	
CT07	16/7/21	18:15:34	IMG_0285.AVI	Bird	Amaurornis phoenicurus	1	
CT07	16/7/21	18:52:56	IMG_0286.AVI	Bird	Amaurornis phoenicurus	1	
CT07	16/7/21	18:57:02	IMG_0287.AVI	Bird	Amaurornis phoenicurus	1	
CT07	16/7/21	19:08:38	IMG_0288.AVI	Bird	Amaurornis phoenicurus	1	
CT07	16/7/21	19:09:38	IMG_0290.AVI	Bird	Gallus gallus	1	
CT07	16/7/21	19:10:12	IMG_0291.AVI	Bird	Gallus gallus	1	
CT07	16/7/21	19:11:34	IMG_0292.AVI	Bird	Gallus gallus	1	
CT07	16/7/21	19:12:16	IMG_0293.AVI	Bird	Gallus gallus	1	
CT07	16/7/21	19:13:06	IMG_0294.AVI	Bird	Amaurornis phoenicurus	1	
CT07	16/7/21	19:14:50	IMG_0295.AVI	Bird	Amaurornis phoenicurus	1	
CT07	16/7/21	19:15:32	IMG_0296.AVI	Bird	Amaurornis phoenicurus	1	
CT07	16/7/21	21:58:30	IMG_0297.AVI	Mammal	Rattus sp.	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT07	17/7/21	8:47:54	IMG_0307.AVI	Bird	Amaurornis phoenicurus	1	
CT07	17/7/21	8:59:50	IMG_0308.AVI	Bird	Gallus gallus	1	
CT07	17/7/21	9:00:42	IMG_0309.AVI	Mammal	Callosciurus notatus	1	
CT07	17/7/21	9:00:42	IMG_0309.AVI	Bird	Amaurornis phoenicurus	1	
CT07	17/7/21	9:01:32	IMG_0310.AVI	Mammal	Callosciurus notatus	1	
CT07	17/7/21	9:35:18	IMG_0311.AVI	Bird	Amaurornis phoenicurus	1	
CT07	17/7/21	9:45:48	IMG_0312.AVI	Bird	Amaurornis phoenicurus	1	
CT07	17/7/21	9:47:52	IMG_0313.AVI	Mammal	Sus scrofa	1	
CT07	17/7/21	9:48:14	IMG_0314.AVI	Bird	Gallus gallus	1	
CT07	17/7/21	9:52:06	IMG_0316.AVI	Bird	Amaurornis phoenicurus	1	
CT07	17/7/21	9:59:24	IMG_0317.AVI	Mammal	Sus scrofa	1	
CT07	17/7/21	10:44:18	IMG_0318.AVI	Bird	Gallus gallus	3	
CT07	17/7/21	11:05:58	IMG_0320.AVI	Bird	Gallus gallus	1	
CT07	17/7/21	11:10:22	IMG_0322.AVI	Bird	Gallus gallus	2	
CT07	17/12/21	8:24:34	IMG_0009.AVI	Bird	Gallus gallus	1	
CT07	17/12/21	8:30:06	IMG_0010.AVI	Bird	Gallus gallus	2	
CT07	17/12/21	8:30:28	IMG_0011.AVI	Bird	Gallus gallus	2	
CT07	17/12/21	9:03:14	IMG_0012.AVI	Bird	Gallus gallus	2	
CT07	17/12/21	9:25:50	IMG_0013.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT07	17/12/21	9:35:26	IMG_0014.AVI	Mammal	Tupaia glis	1	
CT07	18/12/21	8:40:58	IMG_0015.AVI	Mammal	Tupaia glis	1	
CT07	18/12/21	8:43:32	IMG_0016.AVI	Mammal	Tupaia glis	1	
CT07	19/12/21	11:44:58	IMG_0018.AVI	Reptile	Varanus sp.	1	
CT07	19/12/21	18:02:22	IMG_0019.AVI	Mammal	Sus scrofa	1	
CT07	22/12/21	17:30:46	IMG_0038.AVI	Mammal	Canis lupus familiaris	1	
CT07	23/12/21	14:24:30	IMG_0044.AVI	Bird	Gallus gallus	1	
CT07	24/12/21	11:00:26	IMG_0045.AVI	Bird	Gallus gallus	1	
CT07	24/12/21	15:55:08	IMG_0062.AVI	Mammal	Callosciurus notatus	1	
CT07	25/12/21	8:44:48	IMG_0065.AVI	Mammal	Tupaia glis	1	
CT07	25/12/21	11:36:08	IMG_0067.AVI	Mammal	Callosciurus notatus	1	
CT07	25/12/21	15:11:18	IMG_0093.AVI	Mammal	Callosciurus notatus	1	
CT07	25/12/21	18:34:32	IMG_0110.AVI	Mammal	Sus scrofa	1	
CT07	26/12/21	8:40:44	IMG_0111.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT07	27/12/21	8:59:14	IMG_0292.AVI	Mammal	Callosciurus notatus	1	
CT07	27/12/21	11:01:26	IMG_0293.AVI	Mammal	Tupaia glis	1	
CT07	30/12/21	11:46:06	IMG_0326.AVI	Bird	Unidentified Ardeidae	1	
CT07	30/12/21	21:17:02	IMG_0328.AVI	Mammal	Unidentified Muridae	1	
CT07	31/12/21	8:55:50	IMG_0329.AVI	Bird	Gallus gallus	1	
CT07	31/12/21	9:41:48	IMG_0330.AVI	Bird	Gallus gallus	1	
CT07	31/12/21	9:42:10	IMG_0331.AVI	Bird	Gallus gallus	1	
CT07	31/12/21	10:24:54	IMG_0332.AVI	Bird	Gallus gallus	1	
CT07	31/12/21	13:57:38	IMG_0334.AVI	N.A	Unidentified sp.	1	
CT07	31/12/21	14:02:28	IMG_0335.AVI	Mammal	Unidentified squirrel or treeshrew	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT07	1/1/22	16:17:34	IMG_0336.AVI	Mammal	Callosciurus notatus	1	
CT07	1/1/22	21:34:30	IMG_0337.AVI	Mammal	Unidentified Muridae	1	
CT07	2/1/22	11:58:44	IMG_0338.AVI	Bird	Todiramphus chloris	1	
CT07	3/1/22	7:35:52	IMG_0341.AVI	Bird	Gallus gallus	1	
CT07	3/1/22	15:49:44	IMG_0339.AVI	Mammal	Callosciurus notatus	1	
CT07	3/1/22	16:31:58	IMG_0340.AVI	Mammal	Tupaia glis	1	
CT07	4/1/22	15:10:20	IMG_0342.AVI	Mammal	Callosciurus notatus	1	
CT07	4/1/22	16:30:04	IMG_0343.AVI	Mammal	Callosciurus notatus	1	
CT07	4/1/22	16:31:20	IMG_0344.AVI	Mammal	Callosciurus notatus	1	
CT07	5/1/22	9:04:42	IMG_0346.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT07	5/1/22	9:05:22	IMG_0347.AVI	Mammal	Callosciurus notatus	1	
CT07	6/1/22	20:44:56	IMG_0351.AVI	Mammal	Unidentified Muridae	1	
CT07	7/1/22	18:43:30	IMG_0358.AVI	Mammal	Tupaia glis	1	
CT08	10/1/21	5:19:46	IMG_0105.AVI	Mammal	Rattus sp.	1	
CT08	10/1/21	7:47:38	IMG_0107.AVI	Mammal	Tupaia glis	1	
CT08	10/1/21	20:21:18	IMG_0090.AVI	Mammal	Rattus sp.	1	
CT08	11/1/21	8:18:16	IMG_0110.AVI	Bird	Amaurornis phoenicurus	1	
CT08	11/1/21	9:43:50	IMG_0121.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT08	11/1/21	13:04:44	IMG_0160.AVI	Mammal	Tupaia glis	1	
CT08	12/1/21	11:04:58	IMG_0256.AVI	Mammal	Callosciurus notatus	1	
CT08	19/12/21	2:06:40	IMG_0017.AVI	Mammal	Paradoxurus musangus	1	
CT08	28/12/21	8:36:44	IMG_0042.AVI	Mammal	Tupaia glis	1	
CT08	29/12/21	0:21:18	IMG_0059.AVI	Mammal	Unidentified Muridae	1	
CT08	29/12/21	8:57:56	IMG_0044.AVI	Mammal	Sus scrofa	1	
CT08	29/12/21	8:58:32	IMG_0045.AVI	Mammal	Sus scrofa	1	
CT08	29/12/21	8:59:22	IMG_0047.AVI	Mammal	Sus scrofa	1	
CT08	29/12/21	9:00:26	IMG_0050.AVI	Mammal	Sus scrofa	1	
CT08	29/12/21	9:40:14	IMG_0051.AVI	Mammal	Sus scrofa	1	
CT08	29/12/21	9:41:26	IMG_0054.AVI	Mammal	Sus scrofa	1	
CT08	29/12/21	9:42:38	IMG_0056.AVI	Mammal	Sus scrofa	1	
CT08	29/12/21	14:22:04	IMG_0058.AVI	Mammal	Sus scrofa	1	
CT08	30/12/21	15:36:38	IMG_0060.AVI	Mammal	Sus scrofa	1	
CT08	1/1/22	9:56:54	IMG_0061.AVI	Mammal	Sus scrofa	1	
CT08	5/2/22	19:09:14	IMG_0130.AVI	Mammal	Callosciurus notatus	2	
CT08	4/3/22	8:39:26	IMG_0009.AVI	Bird	Amaurornis phoenicurus	1	
CT08	4/3/22	9:19:46	IMG_0010.AVI	Mammal	Tupaia glis	1	
CT08	4/3/22	9:29:26	IMG_0011.AVI	Bird	Amaurornis phoenicurus	1	
CT08	4/3/22	10:59:58	IMG_0013.AVI	Mammal	Tupaia glis	1	
CT08	6/3/22	11:36:24	IMG_0014.AVI	Bird	Amaurornis phoenicurus	1	
CT08	7/3/22	20:54:02	IMG_0016.AVI	Mammal	Unidentified Muridae	1	
CT08	8/3/22	9:27:48	IMG_0021.AVI	Bird	Amaurornis phoenicurus	1	
CT08	8/3/22	9:28:18	IMG_0022.AVI	Bird	Amaurornis phoenicurus	1	
CT08	8/3/22	10:00:32	IMG_0023.AVI	Bird	Picus vittatus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT08	8/3/22	10:00:54	IMG_0024.AVI	Bird	Picus vittatus	1	
CT08	8/3/22	10:01:16	IMG_0025.AVI	Bird	Picus vittatus	1	
CT08	9/3/22	7:53:02	IMG_0029.AVI	Bird	Amaurornis phoenicurus	1	
CT08	9/3/22	8:53:18	IMG_0026.AVI	Mammal	Tupaia glis	1	
CT08	9/3/22	11:58:08	IMG_0027.AVI	Bird	Gallus gallus	1	
CT08	9/3/22	19:07:24	IMG_0028.AVI	Mammal	Tupaia glis	1	
CT08	12/3/22	10:24:42	IMG_0030.AVI	Mammal	Tupaia glis	1	
CT08	13/3/22	7:52:36	IMG_0036.AVI	Mammal	Tupaia glis	1	
CT08	13/3/22	13:00:56	IMG_0035.AVI	Mammal	Tupaia glis	1	
CT08	14/3/22	21:14:42	IMG_0037.AVI	Mammal	Sus scrofa	1	
CT08	14/3/22	21:15:02	IMG_0038.AVI	Mammal	Sus scrofa	1	
CT08	14/3/22	21:15:56	IMG_0039.AVI	Mammal	Sus scrofa	1	
CT08	15/3/22	18:21:06	IMG_0040.AVI	Bird	Amaurornis phoenicurus	1	
CT08	16/3/22	9:37:02	IMG_0041.AVI	Bird	Amaurornis phoenicurus	1	
CT08	16/3/22	9:49:20	IMG_0042.AVI	Mammal	Tupaia glis	1	
CT08	2/7/22	11:34:24	IMG_0013.AVI	Bird	Amaurornis phoenicurus	1	
CT08	5/7/22	10:54:42	IMG_0028.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT08	7/7/22	9:42:26	IMG_0044.AVI	Bird	Picus vittatus	1	
CT08	7/7/22	9:58:08	IMG_0045.AVI	Bird	Amaurornis phoenicurus	1	
CT08	7/7/22	19:02:46	IMG_0071.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT08	7/7/22	19:18:24	IMG_0072.AVI	Mammal	Tupaia glis	1	
CT08	7/7/22	19:19:18	IMG_0073.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT08	7/7/22	21:27:08	IMG_0074.AVI	Mammal	Unidentified rodent	1	
CT08	10/7/22	9:23:32	IMG_0113.AVI	Bird	Amaurornis phoenicurus	1	
CT08	11/7/22	4:31:00	IMG_0138.AVI	Mammal	Sus scrofa	1	
CT08	11/7/22	4:31:22	IMG_0139.AVI	Mammal	Sus scrofa	1	
CT08	11/7/22	4:49:42	IMG_0142.AVI	Mammal	Sus scrofa	1	
CT08	11/7/22	4:58:38	IMG_0145.AVI	Mammal	Sus scrofa	1	
CT08	11/7/22	4:59:24	IMG_0147.AVI	Mammal	Sus scrofa	1	
CT08	11/7/22	23:58:42	IMG_0137.AVI	Mammal	Sus scrofa	1	
CT08	12/7/22	8:03:06	IMG_0149.AVI	Bird	Amaurornis phoenicurus	1	
CT08	12/7/22	8:45:36	IMG_0150.AVI	Bird	Amaurornis phoenicurus	1	
CT08	12/7/22	10:54:56	IMG_0155.AVI	Bird	Amaurornis phoenicurus	1	
CT08	12/7/22	11:15:54	IMG_0156.AVI	Bird	Gallus gallus	1	
CT08	12/7/22	11:16:24	IMG_0157.AVI	Bird	Gallus gallus	1	
CT08	12/7/22	11:16:46	IMG_0158.AVI	Mammal	Sus scrofa	1	
CT08	12/7/22	11:52:52	IMG_0159.AVI	Mammal	Sus scrofa	1	
CT08	12/7/22	11:53:18	IMG_0160.AVI	Mammal	Sus scrofa	1	
CT08	16/7/22	10:01:16	IMG_0205.AVI	Bird	Chalcophaps indica	1	
CT09	17/12/21	1:41:24	IMG_0321.AVI	Mammal	Sus scrofa	1	
CT09	17/12/21	1:45:28	IMG_0322.AVI	Mammal	Sus scrofa	1	
CT09	17/12/21	1:46:56	IMG_0323.AVI	Mammal	Sus scrofa	1	
CT09	17/12/21	1:47:16	IMG_0324.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	17/12/21	2:18:44	IMG_0326.AVI	Mammal	Sus scrofa	1	
CT09	17/12/21	2:23:20	IMG_0327.AVI	Mammal	Sus scrofa	1	
CT09	17/12/21	2:27:08	IMG_0328.AVI	Mammal	Sus scrofa	1	
CT09	17/12/21	2:27:30	IMG_0329.AVI	Mammal	Sus scrofa	1	
CT09	17/12/21	2:31:22	IMG_0331.AVI	Mammal	Sus scrofa	1	
CT09	17/12/21	16:05:40	IMG_0129.AVI	Mammal	Sus scrofa	1	
CT09	17/12/21	16:07:24	IMG_0131.AVI	Bird	Gallus gallus	1	
CT09	17/12/21	18:33:14	IMG_0231.AVI	Mammal	Sus scrofa	1	
CT09	17/12/21	18:41:58	IMG_0237.AVI	Mammal	Tupaia glis	1	
CT09	17/12/21	18:57:34	IMG_0246.AVI	Bird	Rallina fasciata	1	
CT09	10/1/22	0:03:32	IMG_0066.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	0:07:16	IMG_0067.AVI	Bat	Unidentified bat	2	
CT09	10/1/22	0:13:34	IMG_0070.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	0:14:58	IMG_0071.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	0:17:54	IMG_0072.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	0:24:18	IMG_0073.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	0:53:00	IMG_0075.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	0:53:22	IMG_0076.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	0:59:04	IMG_0078.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	0:59:24	IMG_0079.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	1:17:32	IMG_0080.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	1:22:34	IMG_0081.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	1:24:38	IMG_0083.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	1:46:40	IMG_0086.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	1:47:22	IMG_0088.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	1:51:52	IMG_0089.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	1:52:14	IMG_0090.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	1:53:54	IMG_0093.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	1:54:18	IMG_0094.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	2:00:38	IMG_0095.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	2:02:08	IMG_0096.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	2:02:30	IMG_0097.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	2:03:48	IMG_0100.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	2:08:12	IMG_0102.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	3:04:04	IMG_0103.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	3:11:34	IMG_0104.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	3:12:16	IMG_0106.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	3:33:42	IMG_0108.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	3:47:44	IMG_0109.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	3:48:26	IMG_0110.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	3:49:32	IMG_0112.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	3:50:46	IMG_0113.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	4:30:48	IMG_0114.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	10/1/22	4:31:10	IMG_0115.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	4:32:50	IMG_0117.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	4:33:26	IMG_0118.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	4:34:18	IMG_0120.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	4:35:24	IMG_0122.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	4:40:40	IMG_0123.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	4:42:30	IMG_0124.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	4:46:36	IMG_0126.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	4:47:14	IMG_0127.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	5:52:52	IMG_0129.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	6:05:50	IMG_0130.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	6:06:12	IMG_0131.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	6:08:24	IMG_0132.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	6:13:36	IMG_0133.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	6:22:00	IMG_0135.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	6:41:20	IMG_0136.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	6:42:34	IMG_0139.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	6:54:28	IMG_0141.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	6:55:36	IMG_0142.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	7:26:46	IMG_0144.AVI	Bird	Gallus gallus	1	
CT09	10/1/22	7:29:20	IMG_0145.AVI	Bird	Gallus gallus	1	
CT09	10/1/22	7:31:08	IMG_0146.AVI	Bird	Gallus gallus	1	
CT09	10/1/22	7:37:50	IMG_0147.AVI	Mammal	Tupaia glis	1	
CT09	10/1/22	7:42:08	IMG_0148.AVI	Bird	Gallus gallus	1	
CT09	10/1/22	7:43:02	IMG_0149.AVI	Bird	Gallus gallus	1	
CT09	10/1/22	7:58:00	IMG_0151.AVI	Bird	Gallus gallus	1	
CT09	10/1/22	10:05:32	IMG_0010.AVI	Bird	Gallus gallus	1	
CT09	10/1/22	14:51:46	IMG_0011.AVI	Bird	Gallus gallus	1	
CT09	10/1/22	15:58:08	IMG_0012.AVI	Bird	Gallus gallus	1	
CT09	10/1/22	16:01:28	IMG_0013.AVI	Bird	Gallus gallus	2	
CT09	10/1/22	16:03:04	IMG_0014.AVI	Bird	Gallus gallus	1	
CT09	10/1/22	16:06:34	IMG_0015.AVI	Bird	Gallus gallus	1	
CT09	10/1/22	17:21:44	IMG_0017.AVI	Bird	Gallus gallus	1	
CT09	10/1/22	17:25:58	IMG_0018.AVI	Bird	Gallus gallus	1	
CT09	10/1/22	17:28:36	IMG_0019.AVI	Bird	Gallus gallus	1	
CT09	10/1/22	17:29:58	IMG_0020.AVI	Bird	Gallus gallus	1	
CT09	10/1/22	17:42:28	IMG_0021.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	18:06:54	IMG_0022.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	18:07:18	IMG_0023.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	18:12:16	IMG_0024.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	18:32:50	IMG_0025.AVI	Mammal	Tupaia glis	2	
CT09	10/1/22	18:36:26	IMG_0026.AVI	Mammal	Tupaia glis	1	
CT09	10/1/22	18:40:26	IMG_0027.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	10/1/22	19:03:44	IMG_0030.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT09	10/1/22	22:29:10	IMG_0031.AVI	Bat	Unidentified bat	2	
CT09	10/1/22	22:31:46	IMG_0032.AVI	Bat	Unidentified bat	2	
CT09	10/1/22	22:46:30	IMG_0034.AVI	Bat	Unidentified bat	2	
CT09	10/1/22	22:59:22	IMG_0035.AVI	Bat	Unidentified bat	2	
CT09	10/1/22	23:03:38	IMG_0036.AVI	Bat	Unidentified bat	2	
CT09	10/1/22	23:07:38	IMG_0037.AVI	Bat	Unidentified bat	2	
CT09	10/1/22	23:20:24	IMG_0038.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	23:21:48	IMG_0041.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	23:22:30	IMG_0043.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	23:23:14	IMG_0045.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	23:35:20	IMG_0048.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	23:40:54	IMG_0051.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	23:41:14	IMG_0052.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	23:42:22	IMG_0055.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	23:46:28	IMG_0056.AVI	Mammal	Sus scrofa	2	
CT09	10/1/22	23:47:46	IMG_0057.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	23:48:42	IMG_0058.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	23:57:52	IMG_0059.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	23:58:14	IMG_0060.AVI	Mammal	Sus scrofa	1	
CT09	10/1/22	23:59:22	IMG_0063.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	0:00:06	IMG_0233.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	0:25:50	IMG_0234.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	0:26:18	IMG_0235.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	0:27:42	IMG_0236.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	0:28:28	IMG_0238.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	0:29:26	IMG_0240.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	0:43:58	IMG_0243.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	0:44:30	IMG_0244.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	0:46:32	IMG_0245.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	1:01:24	IMG_0246.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	1:07:44	IMG_0248.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	1:09:20	IMG_0249.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	1:23:52	IMG_0250.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	1:24:14	IMG_0251.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	1:26:20	IMG_0253.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	1:57:58	IMG_0254.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	2:03:10	IMG_0256.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	6:58:18	IMG_0257.AVI	Mammal	Sus scrofa	2	
CT09	11/1/22	6:59:32	IMG_0258.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	7:00:22	IMG_0260.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	7:03:54	IMG_0261.AVI	Mammal	Sus scrofa	2	
CT09	11/1/22	7:04:18	IMG_0262.AVI	Mammal	Sus scrofa	2	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	11/1/22	7:05:34	IMG_0265.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	7:10:28	IMG_0267.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	7:13:06	IMG_0269.AVI	Mammal	Sus scrofa	2	
CT09	11/1/22	7:58:24	IMG_0271.AVI	Bird	Gallus gallus	2	
CT09	11/1/22	10:53:32	IMG_0153.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	13:15:16	IMG_0154.AVI	Bird	Gallus gallus	1	
CT09	11/1/22	13:22:14	IMG_0155.AVI	Bird	Gallus gallus	2	
CT09	11/1/22	13:29:06	IMG_0156.AVI	Bird	Gallus gallus	1	
CT09	11/1/22	13:50:48	IMG_0157.AVI	Bird	Gallus gallus	1	
CT09	11/1/22	14:15:28	IMG_0158.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	14:15:52	IMG_0159.AVI	Bird	Gallus gallus	1	
CT09	11/1/22	14:18:58	IMG_0160.AVI	Bird	Gallus gallus	1	
CT09	11/1/22	14:33:00	IMG_0161.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	14:33:38	IMG_0162.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	15:15:28	IMG_0163.AVI	Bird	Gallus gallus	1	
CT09	11/1/22	15:20:30	IMG_0164.AVI	Bird	Gallus gallus	1	
CT09	11/1/22	16:11:24	IMG_0165.AVI	Bird	Gallus gallus	1	
CT09	11/1/22	16:15:26	IMG_0166.AVI	Bird	Gallus gallus	1	
CT09	11/1/22	16:20:36	IMG_0167.AVI	Bird	Gallus gallus	1	
CT09	11/1/22	16:26:38	IMG_0168.AVI	Bird	Gallus gallus	3	
CT09	11/1/22	16:36:32	IMG_0169.AVI	Bird	Gallus gallus	3	
CT09	11/1/22	16:36:32	IMG_0169.AVI	Mammal	Tupaia glis	1	
CT09	11/1/22	17:14:46	IMG_0170.AVI	Bird	Gallus gallus	2	
CT09	11/1/22	17:19:46	IMG_0171.AVI	Bird	Gallus gallus	1	
CT09	11/1/22	17:19:46	IMG_0171.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT09	11/1/22	17:20:34	IMG_0172.AVI	Bird	Gallus gallus	1	
CT09	11/1/22	18:38:18	IMG_0173.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	18:40:02	IMG_0175.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	18:40:36	IMG_0176.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	18:41:18	IMG_0178.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	18:42:24	IMG_0181.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	18:49:46	IMG_0182.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	18:50:20	IMG_0183.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	18:54:02	IMG_0184.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	18:54:24	IMG_0185.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	18:57:58	IMG_0188.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	18:58:18	IMG_0189.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	19:05:24	IMG_0191.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	19:06:30	IMG_0194.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	19:07:28	IMG_0195.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	19:08:22	IMG_0196.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	19:09:32	IMG_0198.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	19:10:16	IMG_0200.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	11/1/22	19:30:14	IMG_0202.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	21:17:52	IMG_0205.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	21:51:34	IMG_0206.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	22:49:20	IMG_0207.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	22:51:12	IMG_0209.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	22:52:16	IMG_0210.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	22:53:48	IMG_0212.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	22:54:56	IMG_0213.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	22:55:26	IMG_0214.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	22:59:48	IMG_0215.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	23:00:10	IMG_0216.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	23:01:26	IMG_0218.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	23:03:36	IMG_0219.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	23:04:36	IMG_0220.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	23:05:26	IMG_0222.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	23:06:10	IMG_0224.AVI	Mammal	Sus scrofa	2	
CT09	11/1/22	23:08:54	IMG_0225.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	23:09:16	IMG_0226.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	23:13:56	IMG_0228.AVI	Mammal	Sus scrofa	2	
CT09	11/1/22	23:14:16	IMG_0229.AVI	Mammal	Sus scrofa	2	
CT09	11/1/22	23:50:44	IMG_0231.AVI	Mammal	Sus scrofa	1	
CT09	11/1/22	23:58:36	IMG_0232.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	1:36:38	IMG_0360.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	1:43:40	IMG_0363.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	1:44:30	IMG_0364.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	1:53:50	IMG_0366.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	1:56:18	IMG_0367.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	8:01:26	IMG_0272.AVI	Bird	Gallus gallus	3	
CT09	12/1/22	8:02:38	IMG_0273.AVI	Bird	Gallus gallus	3	
CT09	12/1/22	8:03:22	IMG_0274.AVI	Bird	Gallus gallus	3	
CT09	12/1/22	8:03:22	IMG_0274.AVI	Reptile	Unidentified Geomydidae	1	
CT09	12/1/22	8:04:46	IMG_0275.AVI	Bird	Gallus gallus	1	
CT09	12/1/22	8:09:40	IMG_0276.AVI	Bird	Gallus gallus	1	
CT09	12/1/22	8:10:20	IMG_0277.AVI	Bird	Gallus gallus	3	
CT09	12/1/22	8:12:28	IMG_0278.AVI	Bird	Gallus gallus	2	
CT09	12/1/22	8:13:22	IMG_0280.AVI	Bird	Gallus gallus	2	
CT09	12/1/22	8:14:20	IMG_0281.AVI	Bird	Gallus gallus	2	
CT09	12/1/22	10:20:34	IMG_0282.AVI	Mammal	Sus scrofa	2	
CT09	12/1/22	12:43:14	IMG_0284.AVI	Mammal	Callosciurus notatus	1	
CT09	12/1/22	13:55:02	IMG_0286.AVI	Bird	Gallus gallus	1	
CT09	12/1/22	14:20:24	IMG_0287.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	14:20:24	IMG_0287.AVI	Bird	Gallus gallus	1	
CT09	12/1/22	14:21:18	IMG_0289.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	12/1/22	14:21:18	IMG_0289.AVI	Bird	Gallus gallus	1	
CT09	12/1/22	14:22:24	IMG_0291.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	14:22:24	IMG_0291.AVI	Bird	Gallus gallus	1	
CT09	12/1/22	14:23:10	IMG_0293.AVI	Bird	Gallus gallus	1	
CT09	12/1/22	14:26:04	IMG_0294.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	14:26:04	IMG_0294.AVI	Bird	Gallus gallus	1	
CT09	12/1/22	14:26:32	IMG_0295.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	14:28:52	IMG_0296.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	14:34:20	IMG_0297.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	14:37:02	IMG_0299.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	14:37:38	IMG_0300.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	14:38:22	IMG_0302.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	14:41:02	IMG_0303.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	14:59:10	IMG_0304.AVI	Bird	Gallus gallus	1	
CT09	12/1/22	15:05:14	IMG_0305.AVI	Bird	Gallus gallus	1	
CT09	12/1/22	15:15:32	IMG_0306.AVI	Bird	Gallus gallus	1	
CT09	12/1/22	15:33:20	IMG_0307.AVI	Bird	Gallus gallus	1	
CT09	12/1/22	15:50:52	IMG_0308.AVI	Bird	Gallus gallus	1	
CT09	12/1/22	15:57:14	IMG_0309.AVI	Bird	Gallus gallus	1	
CT09	12/1/22	16:04:50	IMG_0310.AVI	Mammal	Sus scrofa	2	
CT09	12/1/22	16:05:12	IMG_0311.AVI	Mammal	Sus scrofa	2	
CT09	12/1/22	16:08:34	IMG_0314.AVI	Mammal	Sus scrofa	2	
CT09	12/1/22	16:11:04	IMG_0316.AVI	Mammal	Sus scrofa	2	
CT09	12/1/22	16:11:42	IMG_0317.AVI	Mammal	Sus scrofa	2	
CT09	12/1/22	16:20:50	IMG_0318.AVI	Bird	Gallus gallus	1	
CT09	12/1/22	16:47:24	IMG_0319.AVI	Bird	Gallus gallus	1	
CT09	12/1/22	16:50:08	IMG_0320.AVI	Bird	Gallus gallus	1	
CT09	12/1/22	16:50:34	IMG_0321.AVI	Bird	Gallus gallus	1	
CT09	12/1/22	16:54:06	IMG_0322.AVI	Bird	Gallus gallus	1	
CT09	12/1/22	16:59:20	IMG_0323.AVI	Bird	Gallus gallus	2	
CT09	12/1/22	18:00:46	IMG_0324.AVI	Bird	Gallus gallus	1	
CT09	12/1/22	21:30:12	IMG_0325.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	21:31:32	IMG_0327.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	21:34:30	IMG_0329.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	21:36:18	IMG_0331.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	21:37:26	IMG_0332.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	21:41:18	IMG_0334.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	21:42:48	IMG_0337.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	21:48:12	IMG_0338.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	21:55:52	IMG_0341.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	21:56:30	IMG_0342.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	21:57:50	IMG_0344.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	22:09:08	IMG_0345.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	12/1/22	22:31:38	IMG_0346.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	22:49:56	IMG_0348.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	22:50:18	IMG_0349.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	22:52:18	IMG_0352.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	22:53:26	IMG_0353.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	22:54:46	IMG_0355.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	23:27:54	IMG_0356.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	23:28:16	IMG_0357.AVI	Mammal	Sus scrofa	1	
CT09	12/1/22	23:35:40	IMG_0358.AVI	Mammal	Sus scrofa	1	
CT09	13/1/22	10:41:56	IMG_0368.AVI	Bird	Gallus gallus	1	
CT09	13/1/22	10:50:50	IMG_0369.AVI	Bird	Gallus gallus	2	
CT09	13/1/22	13:33:34	IMG_0370.AVI	Bird	Gallus gallus	2	
CT09	13/1/22	13:44:32	IMG_0371.AVI	Bird	Gallus gallus	1	
CT09	13/1/22	13:51:42	IMG_0372.AVI	Bird	Gallus gallus	1	
CT09	13/1/22	13:52:44	IMG_0373.AVI	Bird	Gallus gallus	2	
CT09	13/1/22	14:27:54	IMG_0375.AVI	Bird	Gallus gallus	1	
CT09	7/2/22	2:32:32	IMG_0012.AVI	Mammal	Sus scrofa	1	
CT09	7/2/22	3:14:28	IMG_0014.AVI	Mammal	Sus scrofa	1	
CT09	7/2/22	3:14:50	IMG_0015.AVI	Mammal	Sus scrofa	2	
CT09	7/2/22	3:26:18	IMG_0016.AVI	Mammal	Sus scrofa	1	
CT09	7/2/22	3:26:52	IMG_0017.AVI	Mammal	Sus scrofa	1	
CT09	7/2/22	3:27:14	IMG_0018.AVI	Mammal	Sus scrofa	1	
CT09	7/2/22	3:27:38	IMG_0019.AVI	Mammal	Sus scrofa	3	
CT09	7/2/22	3:28:12	IMG_0020.AVI	Mammal	Sus scrofa	2	
CT09	7/2/22	3:28:48	IMG_0021.AVI	Mammal	Sus scrofa	1	
CT09	7/2/22	3:29:50	IMG_0022.AVI	Mammal	Sus scrofa	2	
CT09	7/2/22	3:30:34	IMG_0023.AVI	Mammal	Sus scrofa	1	
CT09	7/2/22	3:30:54	IMG_0024.AVI	Mammal	Sus scrofa	1	
CT09	7/2/22	3:33:06	IMG_0025.AVI	Mammal	Sus scrofa	1	
CT09	7/2/22	3:34:20	IMG_0026.AVI	Mammal	Sus scrofa	1	
CT09	7/2/22	7:45:04	IMG_0027.AVI	Mammal	Sus scrofa	1	
CT09	7/2/22	7:45:04	IMG_0027.AVI	Bird	Gallus gallus	1	
CT09	7/2/22	11:30:34	IMG_0006.AVI	Bird	Gallus gallus	1	
CT09	7/2/22	14:29:02	IMG_0007.AVI	Bird	Gallus gallus	2	
CT09	7/2/22	17:43:30	IMG_0008.AVI	Mammal	Tupaia glis	1	
CT09	7/2/22	18:30:54	IMG_0009.AVI	Bird	Gallus gallus	2	
CT09	7/2/22	18:31:56	IMG_0010.AVI	Bird	Gallus gallus	2	
CT09	8/2/22	7:05:10	IMG_0040.AVI	Mammal	Sus scrofa	1	
CT09	8/2/22	7:27:58	IMG_0041.AVI	Mammal	Sus scrofa	1	
CT09	8/2/22	7:28:20	IMG_0042.AVI	Mammal	Sus scrofa	1	
CT09	8/2/22	7:30:58	IMG_0043.AVI	Mammal	Sus scrofa	1	
CT09	8/2/22	7:31:26	IMG_0044.AVI	Mammal	Sus scrofa	1	
CT09	8/2/22	7:32:58	IMG_0045.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	8/2/22	20:01:44	IMG_0028.AVI	Mammal	Sus scrofa	1	
CT09	8/2/22	20:09:42	IMG_0029.AVI	Mammal	Sus scrofa	1	
CT09	8/2/22	20:10:34	IMG_0030.AVI	Mammal	Sus scrofa	1	
CT09	8/2/22	20:13:54	IMG_0031.AVI	Mammal	Sus scrofa	1	
CT09	8/2/22	20:14:28	IMG_0032.AVI	Mammal	Sus scrofa	1	
CT09	8/2/22	20:14:50	IMG_0033.AVI	Mammal	Sus scrofa	1	
CT09	8/2/22	20:16:20	IMG_0034.AVI	Mammal	Sus scrofa	1	
CT09	8/2/22	20:16:50	IMG_0035.AVI	Mammal	Sus scrofa	1	
CT09	8/2/22	20:17:22	IMG_0036.AVI	Mammal	Sus scrofa	1	
CT09	8/2/22	20:22:52	IMG_0037.AVI	Mammal	Sus scrofa	2	
CT09	8/2/22	20:30:24	IMG_0038.AVI	Mammal	Sus scrofa	1	
CT09	8/2/22	20:31:00	IMG_0039.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	0:38:24	IMG_0079.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	0:46:32	IMG_0080.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	0:50:46	IMG_0081.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	0:52:02	IMG_0082.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	0:57:36	IMG_0083.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	6:17:22	IMG_0084.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	11:52:42	IMG_0046.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	11:53:36	IMG_0047.AVI	Mammal	Sus scrofa	2	
CT09	9/2/22	11:53:56	IMG_0048.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	11:54:18	IMG_0049.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	11:55:48	IMG_0050.AVI	Mammal	Sus scrofa	3	
CT09	9/2/22	12:00:50	IMG_0051.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	12:03:18	IMG_0052.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	12:07:30	IMG_0053.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	12:10:26	IMG_0054.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	12:12:04	IMG_0055.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	12:13:10	IMG_0056.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	12:21:02	IMG_0057.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	12:24:10	IMG_0058.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	12:24:50	IMG_0059.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	12:28:28	IMG_0060.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	12:29:00	IMG_0061.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	12:29:58	IMG_0062.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	12:30:28	IMG_0063.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	12:31:40	IMG_0064.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	12:36:14	IMG_0065.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	12:45:54	IMG_0066.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	14:26:30	IMG_0067.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	14:26:52	IMG_0068.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	14:29:34	IMG_0069.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	14:31:36	IMG_0070.AVI	Mammal	Sus scrofa	2	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	9/2/22	14:32:16	IMG_0071.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	14:32:40	IMG_0072.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	14:39:36	IMG_0073.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	14:40:34	IMG_0074.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	14:44:40	IMG_0075.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	16:06:42	IMG_0076.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	17:00:42	IMG_0077.AVI	Mammal	Sus scrofa	1	
CT09	9/2/22	17:05:14	IMG_0078.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	1:02:52	IMG_0141.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	1:03:26	IMG_0142.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	1:11:08	IMG_0143.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	1:12:50	IMG_0144.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	2:10:12	IMG_0145.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	2:11:16	IMG_0146.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	2:12:06	IMG_0147.AVI	Mammal	Sus scrofa	2	
CT09	10/2/22	2:13:06	IMG_0148.AVI	Mammal	Sus scrofa	2	
CT09	10/2/22	2:14:54	IMG_0149.AVI	Mammal	Sus scrofa	2	
CT09	10/2/22	2:15:20	IMG_0150.AVI	Mammal	Sus scrofa	2	
CT09	10/2/22	2:15:40	IMG_0151.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	4:15:30	IMG_0152.AVI	Mammal	Sus scrofa	2	
CT09	10/2/22	4:16:58	IMG_0153.AVI	Mammal	Sus scrofa	2	
CT09	10/2/22	4:18:02	IMG_0154.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	4:30:16	IMG_0155.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	4:33:56	IMG_0156.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	4:34:38	IMG_0157.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	4:37:00	IMG_0158.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	5:18:36	IMG_0159.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	5:18:56	IMG_0160.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	6:06:30	IMG_0161.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	7:47:00	IMG_0162.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	7:47:38	IMG_0163.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	7:48:20	IMG_0164.AVI	Mammal	Sus scrofa	2	
CT09	10/2/22	7:48:42	IMG_0165.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	7:49:12	IMG_0166.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	7:50:00	IMG_0167.AVI	Mammal	Sus scrofa	2	
CT09	10/2/22	7:50:54	IMG_0168.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	7:51:22	IMG_0169.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	7:51:56	IMG_0170.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	7:54:22	IMG_0171.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	7:56:42	IMG_0172.AVI	Mammal	Sus scrofa	2	
CT09	10/2/22	7:57:14	IMG_0173.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	7:59:24	IMG_0174.AVI	Mammal	Sus scrofa	2	
CT09	10/2/22	14:12:36	IMG_0085.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	10/2/22	14:13:16	IMG_0086.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	14:13:38	IMG_0087.AVI	Mammal	Sus scrofa	2	
CT09	10/2/22	14:14:02	IMG_0088.AVI	Mammal	Sus scrofa	2	
CT09	10/2/22	14:16:04	IMG_0090.AVI	Mammal	Sus scrofa	2	
CT09	10/2/22	14:16:26	IMG_0091.AVI	Mammal	Sus scrofa	2	
CT09	10/2/22	14:17:08	IMG_0092.AVI	Mammal	Sus scrofa	3	
CT09	10/2/22	14:17:44	IMG_0093.AVI	Mammal	Sus scrofa	4	
CT09	10/2/22	14:18:36	IMG_0094.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	14:20:50	IMG_0095.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	14:22:42	IMG_0096.AVI	Mammal	Sus scrofa	2	
CT09	10/2/22	14:23:12	IMG_0097.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	14:24:06	IMG_0098.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	14:24:44	IMG_0099.AVI	Mammal	Sus scrofa	3	
CT09	10/2/22	14:26:24	IMG_0100.AVI	Mammal	Sus scrofa	4	
CT09	10/2/22	14:31:02	IMG_0101.AVI	Mammal	Sus scrofa	2	
CT09	10/2/22	14:31:56	IMG_0102.AVI	Mammal	Sus scrofa	2	
CT09	10/2/22	14:32:18	IMG_0103.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	14:32:42	IMG_0104.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	14:33:40	IMG_0105.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	14:34:02	IMG_0106.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	15:06:56	IMG_0107.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	15:07:20	IMG_0108.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	15:07:44	IMG_0109.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	15:08:04	IMG_0110.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	15:08:26	IMG_0111.AVI	Mammal	Sus scrofa	2	
CT09	10/2/22	15:08:46	IMG_0112.AVI	Mammal	Sus scrofa	3	
CT09	10/2/22	15:09:16	IMG_0113.AVI	Mammal	Sus scrofa	3	
CT09	10/2/22	15:09:40	IMG_0114.AVI	Mammal	Sus scrofa	2	
CT09	10/2/22	15:10:06	IMG_0115.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	15:10:40	IMG_0116.AVI	Mammal	Sus scrofa	3	
CT09	10/2/22	15:23:44	IMG_0117.AVI	Mammal	Sus scrofa	2	
CT09	10/2/22	15:24:48	IMG_0118.AVI	Mammal	Sus scrofa	3	
CT09	10/2/22	15:25:16	IMG_0119.AVI	Mammal	Sus scrofa	2	
CT09	10/2/22	15:27:46	IMG_0120.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	15:29:38	IMG_0121.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	23:05:46	IMG_0122.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	23:07:16	IMG_0123.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	23:10:56	IMG_0124.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	23:11:18	IMG_0125.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	23:14:12	IMG_0126.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	23:20:24	IMG_0127.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	23:26:04	IMG_0128.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	23:30:18	IMG_0129.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	10/2/22	23:30:40	IMG_0130.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	23:33:50	IMG_0131.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	23:39:38	IMG_0132.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	23:42:10	IMG_0134.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	23:44:32	IMG_0135.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	23:52:24	IMG_0136.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	23:53:30	IMG_0137.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	23:54:44	IMG_0138.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	23:55:28	IMG_0139.AVI	Mammal	Sus scrofa	1	
CT09	10/2/22	23:55:56	IMG_0140.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	0:11:02	IMG_0235.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	0:12:12	IMG_0236.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	0:13:50	IMG_0237.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	0:17:42	IMG_0238.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	0:21:30	IMG_0239.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	0:21:52	IMG_0240.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	0:23:44	IMG_0241.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	0:29:16	IMG_0242.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	0:38:06	IMG_0243.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	0:39:52	IMG_0244.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	0:44:50	IMG_0245.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	1:00:10	IMG_0246.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	1:08:42	IMG_0247.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	1:09:04	IMG_0248.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	1:12:20	IMG_0249.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	1:13:48	IMG_0250.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	1:14:36	IMG_0251.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	1:43:08	IMG_0252.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	1:44:48	IMG_0253.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	2:07:34	IMG_0254.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	2:08:58	IMG_0255.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	2:12:18	IMG_0256.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	2:53:22	IMG_0257.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	2:53:48	IMG_0258.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	2:54:22	IMG_0259.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	2:55:52	IMG_0261.AVI	Mammal	Sus scrofa	2	
CT09	11/2/22	2:56:14	IMG_0262.AVI	Mammal	Sus scrofa	2	
CT09	11/2/22	2:57:08	IMG_0263.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	2:57:34	IMG_0264.AVI	Mammal	Sus scrofa	3	
CT09	11/2/22	2:58:46	IMG_0265.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	3:17:24	IMG_0267.AVI	Mammal	Sus scrofa	2	
CT09	11/2/22	3:17:50	IMG_0268.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	3:18:10	IMG_0269.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	11/2/22	3:18:34	IMG_0270.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	3:19:14	IMG_0271.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	3:19:44	IMG_0272.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	3:20:46	IMG_0273.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	3:45:44	IMG_0274.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	3:47:06	IMG_0275.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	3:48:58	IMG_0276.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	3:50:26	IMG_0277.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	3:50:50	IMG_0278.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	3:52:04	IMG_0279.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	3:52:58	IMG_0280.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	3:55:22	IMG_0281.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	4:26:06	IMG_0282.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	4:28:24	IMG_0283.AVI	Mammal	Sus scrofa	2	
CT09	11/2/22	7:48:26	IMG_0284.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	7:50:30	IMG_0285.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	7:52:20	IMG_0286.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	7:53:32	IMG_0287.AVI	Mammal	Sus scrofa	2	
CT09	11/2/22	7:54:08	IMG_0288.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	7:57:06	IMG_0289.AVI	Mammal	Sus scrofa	3	
CT09	11/2/22	7:57:28	IMG_0290.AVI	Mammal	Sus scrofa	2	
CT09	11/2/22	7:57:48	IMG_0291.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	7:58:14	IMG_0292.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	7:59:38	IMG_0293.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	8:10:30	IMG_0175.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	8:12:02	IMG_0176.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	8:12:44	IMG_0177.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	8:14:06	IMG_0178.AVI	Mammal	Sus scrofa	2	
CT09	11/2/22	8:15:42	IMG_0179.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	8:18:36	IMG_0180.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	8:21:50	IMG_0181.AVI	Mammal	Sus scrofa	2	
CT09	11/2/22	8:22:10	IMG_0182.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	8:23:26	IMG_0183.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	8:23:46	IMG_0184.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	8:25:38	IMG_0185.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	8:26:00	IMG_0186.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	8:30:36	IMG_0187.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	8:30:56	IMG_0188.AVI	Mammal	Sus scrofa	2	
CT09	11/2/22	8:33:00	IMG_0189.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	8:35:42	IMG_0190.AVI	Mammal	Sus scrofa	2	
CT09	11/2/22	8:36:16	IMG_0191.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	9:16:34	IMG_0192.AVI	Mammal	Sus scrofa	2	
CT09	11/2/22	15:24:20	IMG_0193.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	11/2/22	15:24:44	IMG_0194.AVI	Mammal	Sus scrofa	2	
CT09	11/2/22	15:25:06	IMG_0195.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	15:25:54	IMG_0196.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	15:26:50	IMG_0197.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	15:27:16	IMG_0198.AVI	Mammal	Sus scrofa	2	
CT09	11/2/22	15:27:38	IMG_0199.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	15:31:00	IMG_0200.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	15:53:00	IMG_0201.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	15:54:20	IMG_0202.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	15:54:50	IMG_0203.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	15:56:10	IMG_0204.AVI	Mammal	Sus scrofa	2	
CT09	11/2/22	15:57:22	IMG_0205.AVI	Mammal	Sus scrofa	3	
CT09	11/2/22	15:58:28	IMG_0206.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	16:13:02	IMG_0207.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	16:19:02	IMG_0210.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	16:19:32	IMG_0211.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	16:20:20	IMG_0212.AVI	Mammal	Sus scrofa	2	
CT09	11/2/22	16:20:54	IMG_0213.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	16:22:02	IMG_0214.AVI	Mammal	Sus scrofa	3	
CT09	11/2/22	16:23:16	IMG_0215.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	16:24:20	IMG_0216.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	16:25:16	IMG_0217.AVI	Mammal	Sus scrofa	3	
CT09	11/2/22	16:25:38	IMG_0218.AVI	Mammal	Sus scrofa	2	
CT09	11/2/22	16:26:18	IMG_0219.AVI	Mammal	Sus scrofa	2	
CT09	11/2/22	16:27:02	IMG_0220.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	16:29:00	IMG_0221.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	16:29:22	IMG_0222.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	16:30:32	IMG_0223.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	16:31:32	IMG_0224.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	16:34:58	IMG_0225.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	16:53:58	IMG_0226.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	16:54:20	IMG_0227.AVI	Mammal	Sus scrofa	2	
CT09	11/2/22	16:54:52	IMG_0228.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	17:03:32	IMG_0229.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	17:05:42	IMG_0230.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	17:13:34	IMG_0231.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	17:14:40	IMG_0232.AVI	Mammal	Sus scrofa	1	
CT09	11/2/22	20:17:36	IMG_0233.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	8:00:24	IMG_0295.AVI	Mammal	Sus scrofa	4	
CT09	12/2/22	8:01:12	IMG_0296.AVI	Mammal	Sus scrofa	5	
CT09	12/2/22	8:01:58	IMG_0297.AVI	Mammal	Sus scrofa	2	
CT09	12/2/22	8:03:16	IMG_0298.AVI	Mammal	Sus scrofa	2	
CT09	12/2/22	8:04:14	IMG_0299.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	12/2/22	8:07:12	IMG_0300.AVI	Mammal	Sus scrofa	2	
CT09	12/2/22	8:07:34	IMG_0301.AVI	Mammal	Sus scrofa	2	
CT09	12/2/22	8:07:54	IMG_0302.AVI	Mammal	Sus scrofa	2	
CT09	12/2/22	8:48:36	IMG_0303.AVI	Mammal	Sus scrofa	2	
CT09	12/2/22	8:49:06	IMG_0304.AVI	Mammal	Sus scrofa	2	
CT09	12/2/22	8:49:40	IMG_0305.AVI	Mammal	Sus scrofa	2	
CT09	12/2/22	9:03:32	IMG_0306.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	9:05:06	IMG_0307.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	9:17:20	IMG_0308.AVI	Mammal	Sus scrofa	2	
CT09	12/2/22	9:20:16	IMG_0309.AVI	Mammal	Sus scrofa	2	
CT09	12/2/22	9:25:14	IMG_0310.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	13:32:52	IMG_0311.AVI	Mammal	Sus scrofa	2	
CT09	12/2/22	13:33:16	IMG_0312.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	13:39:54	IMG_0313.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	13:42:30	IMG_0314.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	13:43:36	IMG_0315.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	13:44:48	IMG_0316.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	13:45:10	IMG_0317.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	13:45:44	IMG_0318.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	13:46:06	IMG_0319.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	13:47:12	IMG_0320.AVI	Mammal	Sus scrofa	2	
CT09	12/2/22	13:50:42	IMG_0321.AVI	Mammal	Sus scrofa	2	
CT09	12/2/22	13:56:02	IMG_0322.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	13:56:22	IMG_0323.AVI	Mammal	Sus scrofa	2	
CT09	12/2/22	18:20:28	IMG_0324.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	18:30:58	IMG_0326.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	18:42:04	IMG_0327.AVI	Mammal	Sus scrofa	2	
CT09	12/2/22	18:43:06	IMG_0329.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	18:43:56	IMG_0331.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	18:44:42	IMG_0332.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	18:45:24	IMG_0333.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	18:46:08	IMG_0334.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	18:46:30	IMG_0335.AVI	Mammal	Sus scrofa	2	
CT09	12/2/22	18:49:08	IMG_0337.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	18:49:38	IMG_0338.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	18:50:38	IMG_0339.AVI	Mammal	Sus scrofa	2	
CT09	12/2/22	18:51:04	IMG_0340.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	18:51:24	IMG_0341.AVI	Mammal	Sus scrofa	2	
CT09	12/2/22	19:03:16	IMG_0342.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	19:03:52	IMG_0343.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	19:04:12	IMG_0344.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	19:04:56	IMG_0345.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	19:14:28	IMG_0347.AVI	Mammal	Sus scrofa	2	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	12/2/22	19:17:22	IMG_0348.AVI	Mammal	Sus scrofa	3	
CT09	12/2/22	19:17:48	IMG_0349.AVI	Mammal	Sus scrofa	3	
CT09	12/2/22	19:18:10	IMG_0350.AVI	Mammal	Sus scrofa	2	
CT09	12/2/22	19:18:30	IMG_0351.AVI	Mammal	Sus scrofa	1	
CT09	12/2/22	19:18:52	IMG_0352.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	0:45:28	IMG_0017.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	0:46:00	IMG_0018.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	1:19:42	IMG_0020.AVI	Mammal	Sus scrofa	6	
CT09	21/2/22	1:20:28	IMG_0022.AVI	Mammal	Sus scrofa	2	
CT09	21/2/22	1:20:50	IMG_0023.AVI	Mammal	Sus scrofa	2	
CT09	21/2/22	1:21:10	IMG_0024.AVI	Mammal	Sus scrofa	2	
CT09	21/2/22	1:21:32	IMG_0025.AVI	Mammal	Sus scrofa	3	
CT09	21/2/22	1:21:54	IMG_0026.AVI	Mammal	Sus scrofa	2	
CT09	21/2/22	1:22:16	IMG_0027.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	1:22:38	IMG_0028.AVI	Mammal	Sus scrofa	2	
CT09	21/2/22	1:23:00	IMG_0029.AVI	Mammal	Sus scrofa	2	
CT09	21/2/22	1:23:22	IMG_0030.AVI	Mammal	Sus scrofa	2	
CT09	21/2/22	1:24:18	IMG_0031.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	1:25:00	IMG_0032.AVI	Mammal	Sus scrofa	2	
CT09	21/2/22	1:25:22	IMG_0033.AVI	Mammal	Sus scrofa	2	
CT09	21/2/22	1:59:34	IMG_0034.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	2:00:10	IMG_0035.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	2:00:36	IMG_0036.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	2:00:56	IMG_0037.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	2:01:58	IMG_0038.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	2:03:44	IMG_0039.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	2:04:36	IMG_0040.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	2:05:14	IMG_0041.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	2:05:34	IMG_0042.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	2:05:56	IMG_0043.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	2:09:22	IMG_0044.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	2:09:42	IMG_0045.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	2:10:04	IMG_0046.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	2:12:48	IMG_0047.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	2:13:12	IMG_0048.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	2:30:08	IMG_0049.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	7:11:54	IMG_0050.AVI	Bird	Gallus gallus	1	
CT09	21/2/22	7:13:58	IMG_0051.AVI	Bird	Gallus gallus	1	
CT09	21/2/22	7:16:22	IMG_0052.AVI	Bird	Gallus gallus	1	
CT09	21/2/22	7:16:52	IMG_0053.AVI	Bird	Gallus gallus	1	
CT09	21/2/22	7:26:00	IMG_0054.AVI	Bird	Gallus gallus	1	
CT09	21/2/22	7:26:42	IMG_0055.AVI	Bird	Gallus gallus	1	
CT09	21/2/22	7:44:24	IMG_0056.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	21/2/22	7:47:06	IMG_0057.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	7:47:30	IMG_0058.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	17:56:34	IMG_0005.AVI	Bird	Gallus gallus	1	
CT09	21/2/22	18:23:08	IMG_0006.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	18:23:30	IMG_0007.AVI	Mammal	Sus scrofa	3	
CT09	21/2/22	18:23:52	IMG_0008.AVI	Mammal	Sus scrofa	2	
CT09	21/2/22	18:24:12	IMG_0009.AVI	Mammal	Sus scrofa	2	
CT09	21/2/22	18:24:42	IMG_0010.AVI	Mammal	Sus scrofa	3	
CT09	21/2/22	18:25:04	IMG_0011.AVI	Mammal	Sus scrofa	2	
CT09	21/2/22	18:25:24	IMG_0012.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	18:25:46	IMG_0013.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	18:26:28	IMG_0014.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	18:26:48	IMG_0015.AVI	Mammal	Sus scrofa	1	
CT09	21/2/22	18:37:34	IMG_0016.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	1:10:20	IMG_0134.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	3:12:28	IMG_0135.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	3:18:00	IMG_0136.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	3:22:02	IMG_0137.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	3:22:46	IMG_0139.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	3:24:12	IMG_0140.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	3:25:00	IMG_0141.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	3:28:46	IMG_0142.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	3:29:06	IMG_0143.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	3:29:26	IMG_0144.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	3:31:22	IMG_0145.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	3:35:28	IMG_0147.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	3:54:46	IMG_0149.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	3:55:08	IMG_0150.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	4:34:24	IMG_0153.AVI	Mammal	Sus scrofa	3	
CT09	22/2/22	4:36:28	IMG_0154.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	4:36:48	IMG_0155.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	4:37:38	IMG_0156.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	4:38:02	IMG_0157.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	7:20:06	IMG_0158.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	7:28:22	IMG_0159.AVI	Mammal	Sus scrofa	2	
CT09	22/2/22	7:28:44	IMG_0160.AVI	Mammal	Sus scrofa	3	
CT09	22/2/22	7:29:04	IMG_0161.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	7:29:26	IMG_0162.AVI	Mammal	Sus scrofa	3	
CT09	22/2/22	7:29:54	IMG_0163.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	7:30:52	IMG_0164.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	7:31:12	IMG_0165.AVI	Mammal	Sus scrofa	2	
CT09	22/2/22	7:31:34	IMG_0166.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	7:35:48	IMG_0167.AVI	Mammal	Sus scrofa	2	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	22/2/22	7:36:10	IMG_0168.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	7:36:36	IMG_0169.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	7:36:58	IMG_0170.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	7:59:46	IMG_0171.AVI	Bird	Gallus gallus	1	
CT09	22/2/22	12:21:18	IMG_0059.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	12:21:44	IMG_0060.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	12:30:32	IMG_0061.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	12:35:42	IMG_0062.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	12:49:24	IMG_0063.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	12:49:50	IMG_0064.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	13:13:16	IMG_0065.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	13:13:36	IMG_0066.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	13:17:32	IMG_0067.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	14:04:38	IMG_0068.AVI	Bird	Gallus gallus	1	
CT09	22/2/22	14:18:44	IMG_0069.AVI	Bird	Gallus gallus	1	
CT09	22/2/22	14:19:06	IMG_0070.AVI	Bird	Gallus gallus	1	
CT09	22/2/22	15:57:04	IMG_0071.AVI	Bird	Gallus gallus	1	
CT09	22/2/22	17:23:54	IMG_0072.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	17:24:14	IMG_0073.AVI	Mammal	Sus scrofa	5	
CT09	22/2/22	17:25:06	IMG_0074.AVI	Mammal	Sus scrofa	4	
CT09	22/2/22	17:25:26	IMG_0075.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	17:25:48	IMG_0076.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	17:26:46	IMG_0077.AVI	Mammal	Sus scrofa	3	
CT09	22/2/22	17:27:08	IMG_0078.AVI	Mammal	Sus scrofa	3	
CT09	22/2/22	17:27:28	IMG_0079.AVI	Mammal	Sus scrofa	3	
CT09	22/2/22	17:27:58	IMG_0080.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	17:28:22	IMG_0081.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	17:30:10	IMG_0082.AVI	Mammal	Sus scrofa	2	
CT09	22/2/22	17:30:32	IMG_0083.AVI	Mammal	Sus scrofa	3	
CT09	22/2/22	17:30:54	IMG_0084.AVI	Mammal	Sus scrofa	2	
CT09	22/2/22	17:31:14	IMG_0085.AVI	Mammal	Sus scrofa	3	
CT09	22/2/22	17:31:58	IMG_0086.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	17:32:56	IMG_0087.AVI	Mammal	Sus scrofa	2	
CT09	22/2/22	17:33:18	IMG_0088.AVI	Mammal	Sus scrofa	2	
CT09	22/2/22	17:34:52	IMG_0089.AVI	Mammal	Sus scrofa	2	
CT09	22/2/22	17:35:26	IMG_0090.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	17:38:00	IMG_0091.AVI	Mammal	Sus scrofa	2	
CT09	22/2/22	17:38:22	IMG_0092.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	17:39:06	IMG_0093.AVI	Mammal	Sus scrofa	2	
CT09	22/2/22	17:39:26	IMG_0094.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	17:40:00	IMG_0095.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	17:40:22	IMG_0096.AVI	Mammal	Sus scrofa	2	
CT09	22/2/22	17:42:10	IMG_0097.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	22/2/22	17:42:32	IMG_0098.AVI	Mammal	Sus scrofa	4	
CT09	22/2/22	17:42:56	IMG_0099.AVI	Mammal	Sus scrofa	4	
CT09	22/2/22	17:43:20	IMG_0100.AVI	Mammal	Sus scrofa	3	
CT09	22/2/22	17:44:02	IMG_0101.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	17:44:42	IMG_0102.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	17:45:04	IMG_0103.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	17:45:44	IMG_0104.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	17:47:02	IMG_0105.AVI	Mammal	Sus scrofa	3	
CT09	22/2/22	17:47:40	IMG_0106.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	17:48:06	IMG_0107.AVI	Mammal	Sus scrofa	2	
CT09	22/2/22	17:48:42	IMG_0108.AVI	Mammal	Sus scrofa	2	
CT09	22/2/22	17:50:12	IMG_0109.AVI	Mammal	Sus scrofa	2	
CT09	22/2/22	17:50:42	IMG_0110.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	17:51:08	IMG_0111.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	17:51:36	IMG_0112.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	17:56:38	IMG_0114.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	18:17:50	IMG_0115.AVI	Mammal	Sus scrofa	4	
CT09	22/2/22	18:18:12	IMG_0116.AVI	Mammal	Sus scrofa	2	
CT09	22/2/22	18:18:44	IMG_0117.AVI	Mammal	Sus scrofa	2	
CT09	22/2/22	18:19:04	IMG_0118.AVI	Mammal	Sus scrofa	4	
CT09	22/2/22	18:19:28	IMG_0119.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	18:19:48	IMG_0120.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	18:20:36	IMG_0121.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	18:21:22	IMG_0122.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	18:21:44	IMG_0123.AVI	Mammal	Sus scrofa	2	
CT09	22/2/22	18:22:32	IMG_0124.AVI	Mammal	Sus scrofa	2	
CT09	22/2/22	18:24:16	IMG_0125.AVI	Mammal	Sus scrofa	2	
CT09	22/2/22	18:35:08	IMG_0126.AVI	Mammal	Sus scrofa	4	
CT09	22/2/22	18:38:18	IMG_0127.AVI	Mammal	Sus scrofa	2	
CT09	22/2/22	18:39:46	IMG_0128.AVI	Mammal	Sus scrofa	2	
CT09	22/2/22	20:40:58	IMG_0129.AVI	Mammal	Sus scrofa	2	
CT09	22/2/22	20:48:44	IMG_0131.AVI	Mammal	Sus scrofa	1	
CT09	22/2/22	23:04:04	IMG_0132.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	1:18:38	IMG_0220.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	1:19:00	IMG_0221.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	1:20:40	IMG_0222.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	1:21:52	IMG_0223.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	4:33:30	IMG_0224.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	4:34:02	IMG_0225.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	8:00:26	IMG_0172.AVI	Bird	Gallus gallus	3	
CT09	23/2/22	8:01:06	IMG_0173.AVI	Bird	Gallus gallus	2	
CT09	23/2/22	8:04:58	IMG_0174.AVI	Bird	Gallus gallus	2	
CT09	23/2/22	8:45:22	IMG_0176.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	23/2/22	8:46:14	IMG_0177.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	8:47:28	IMG_0178.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	8:47:50	IMG_0179.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	8:48:12	IMG_0180.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	19:38:14	IMG_0181.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	19:38:36	IMG_0182.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	19:39:32	IMG_0183.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	21:04:44	IMG_0184.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	21:05:14	IMG_0185.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	21:05:36	IMG_0186.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	21:05:56	IMG_0187.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	21:06:18	IMG_0188.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	21:06:40	IMG_0189.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	21:15:18	IMG_0190.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	22:45:46	IMG_0191.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	22:49:34	IMG_0194.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	22:49:54	IMG_0195.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	22:50:14	IMG_0196.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	22:50:38	IMG_0197.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	22:53:08	IMG_0200.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	22:53:30	IMG_0201.AVI	Mammal	Sus scrofa	3	
CT09	23/2/22	22:53:52	IMG_0202.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	22:54:14	IMG_0203.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	22:54:36	IMG_0204.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	22:54:58	IMG_0205.AVI	Mammal	Sus scrofa	2	
CT09	23/2/22	22:55:18	IMG_0206.AVI	Mammal	Sus scrofa	2	
CT09	23/2/22	22:55:40	IMG_0207.AVI	Mammal	Sus scrofa	3	
CT09	23/2/22	22:56:02	IMG_0208.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	22:56:28	IMG_0209.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	22:56:50	IMG_0210.AVI	Mammal	Sus scrofa	2	
CT09	23/2/22	22:57:12	IMG_0211.AVI	Mammal	Sus scrofa	2	
CT09	23/2/22	22:57:36	IMG_0212.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	22:58:08	IMG_0213.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	22:58:30	IMG_0214.AVI	Mammal	Sus scrofa	2	
CT09	23/2/22	22:58:50	IMG_0215.AVI	Mammal	Sus scrofa	2	
CT09	23/2/22	22:59:12	IMG_0216.AVI	Mammal	Sus scrofa	2	
CT09	23/2/22	23:00:06	IMG_0217.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	23:00:30	IMG_0218.AVI	Mammal	Sus scrofa	1	
CT09	23/2/22	23:00:52	IMG_0219.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	7:58:36	IMG_0320.AVI	Mammal	Sus scrofa	2	
CT09	24/2/22	7:58:58	IMG_0321.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	7:59:36	IMG_0322.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	8:54:16	IMG_0226.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	24/2/22	8:55:22	IMG_0227.AVI	Mammal	Sus scrofa	2	
CT09	24/2/22	8:55:58	IMG_0228.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	8:56:22	IMG_0229.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	8:56:44	IMG_0230.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	8:57:04	IMG_0231.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	8:58:00	IMG_0232.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	8:59:16	IMG_0233.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	8:59:38	IMG_0234.AVI	Mammal	Sus scrofa	2	
CT09	24/2/22	9:01:38	IMG_0235.AVI	Mammal	Sus scrofa	2	
CT09	24/2/22	9:02:00	IMG_0236.AVI	Mammal	Sus scrofa	2	
CT09	24/2/22	9:03:00	IMG_0237.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	9:03:22	IMG_0238.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	9:05:14	IMG_0239.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	9:05:38	IMG_0240.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	10:09:16	IMG_0241.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	10:09:52	IMG_0242.AVI	Mammal	Sus scrofa	2	
CT09	24/2/22	10:12:06	IMG_0243.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	17:03:12	IMG_0244.AVI	Bird	Gallus gallus	1	
CT09	24/2/22	18:10:38	IMG_0245.AVI	Mammal	Sus scrofa	2	
CT09	24/2/22	18:10:58	IMG_0246.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:12:32	IMG_0247.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:14:22	IMG_0248.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:14:44	IMG_0249.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:15:40	IMG_0250.AVI	Mammal	Sus scrofa	3	
CT09	24/2/22	18:16:02	IMG_0251.AVI	Mammal	Sus scrofa	3	
CT09	24/2/22	18:16:24	IMG_0252.AVI	Mammal	Sus scrofa	4	
CT09	24/2/22	18:16:48	IMG_0253.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:17:10	IMG_0254.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:17:34	IMG_0255.AVI	Mammal	Sus scrofa	2	
CT09	24/2/22	18:17:58	IMG_0256.AVI	Mammal	Sus scrofa	3	
CT09	24/2/22	18:18:20	IMG_0257.AVI	Mammal	Sus scrofa	3	
CT09	24/2/22	18:18:40	IMG_0258.AVI	Mammal	Sus scrofa	3	
CT09	24/2/22	18:19:02	IMG_0259.AVI	Mammal	Sus scrofa	2	
CT09	24/2/22	18:19:26	IMG_0260.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:20:02	IMG_0261.AVI	Mammal	Sus scrofa	2	
CT09	24/2/22	18:20:24	IMG_0262.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:20:52	IMG_0263.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:21:26	IMG_0264.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:21:52	IMG_0265.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:22:12	IMG_0266.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:22:34	IMG_0267.AVI	Mammal	Sus scrofa	2	
CT09	24/2/22	18:22:56	IMG_0268.AVI	Mammal	Sus scrofa	2	
CT09	24/2/22	18:23:18	IMG_0269.AVI	Mammal	Sus scrofa	2	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	24/2/22	18:23:40	IMG_0270.AVI	Mammal	Sus scrofa	2	
CT09	24/2/22	18:24:24	IMG_0271.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:25:02	IMG_0272.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:25:26	IMG_0273.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:25:56	IMG_0274.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:26:16	IMG_0275.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:26:50	IMG_0276.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:37:08	IMG_0277.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:37:52	IMG_0278.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:38:12	IMG_0279.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:38:34	IMG_0280.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:40:40	IMG_0281.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:41:02	IMG_0282.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:44:28	IMG_0283.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:44:58	IMG_0284.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:51:08	IMG_0285.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:52:32	IMG_0286.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:52:52	IMG_0287.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:53:14	IMG_0288.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:53:34	IMG_0289.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:53:54	IMG_0290.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:54:16	IMG_0291.AVI	Mammal	Sus scrofa	2	
CT09	24/2/22	18:54:36	IMG_0292.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:54:58	IMG_0293.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:56:52	IMG_0294.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:57:32	IMG_0295.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:58:56	IMG_0296.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	18:59:22	IMG_0297.AVI	Mammal	Sus scrofa	2	
CT09	24/2/22	18:59:44	IMG_0298.AVI	Mammal	Sus scrofa	3	
CT09	24/2/22	19:00:04	IMG_0299.AVI	Mammal	Sus scrofa	3	
CT09	24/2/22	19:00:26	IMG_0300.AVI	Mammal	Sus scrofa	2	
CT09	24/2/22	19:00:48	IMG_0301.AVI	Mammal	Sus scrofa	2	
CT09	24/2/22	19:01:14	IMG_0302.AVI	Mammal	Sus scrofa	3	
CT09	24/2/22	19:01:58	IMG_0303.AVI	Mammal	Sus scrofa	2	
CT09	24/2/22	20:10:54	IMG_0304.AVI	Mammal	Sus scrofa	2	
CT09	24/2/22	20:11:30	IMG_0305.AVI	Mammal	Sus scrofa	2	
CT09	24/2/22	20:11:52	IMG_0306.AVI	Mammal	Sus scrofa	2	
CT09	24/2/22	20:12:12	IMG_0307.AVI	Mammal	Sus scrofa	2	
CT09	24/2/22	20:12:34	IMG_0308.AVI	Mammal	Sus scrofa	2	
CT09	24/2/22	20:12:56	IMG_0309.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	20:14:02	IMG_0310.AVI	Mammal	Sus scrofa	2	
CT09	24/2/22	20:14:26	IMG_0311.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	20:14:58	IMG_0312.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	24/2/22	20:15:20	IMG_0313.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	20:16:48	IMG_0314.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	20:17:08	IMG_0315.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	20:17:46	IMG_0316.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	20:20:46	IMG_0317.AVI	Mammal	Sus scrofa	2	
CT09	24/2/22	20:21:06	IMG_0318.AVI	Mammal	Sus scrofa	1	
CT09	24/2/22	20:22:58	IMG_0319.AVI	Mammal	Sus scrofa	1	
CT09	25/2/22	8:02:56	IMG_0323.AVI	Mammal	Sus scrofa	2	
CT09	25/2/22	8:05:44	IMG_0324.AVI	Mammal	Sus scrofa	1	
CT09	25/2/22	8:09:02	IMG_0325.AVI	Mammal	Sus scrofa	1	
CT09	25/2/22	8:09:24	IMG_0326.AVI	Mammal	Sus scrofa	1	
CT09	25/2/22	8:10:00	IMG_0327.AVI	Mammal	Sus scrofa	1	
CT09	25/2/22	8:11:48	IMG_0328.AVI	Mammal	Sus scrofa	1	
CT09	25/2/22	8:13:56	IMG_0329.AVI	Mammal	Sus scrofa	1	
CT09	25/2/22	8:14:20	IMG_0330.AVI	Mammal	Sus scrofa	2	
CT09	4/3/22	3:07:50	IMG_0038.AVI	Mammal	Sus scrofa	2	
CT09	4/3/22	3:08:46	IMG_0040.AVI	Mammal	Sus scrofa	2	
CT09	4/3/22	3:09:08	IMG_0041.AVI	Mammal	Sus scrofa	2	
CT09	4/3/22	3:09:30	IMG_0042.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:10:00	IMG_0043.AVI	Mammal	Sus scrofa	2	
CT09	4/3/22	3:10:22	IMG_0044.AVI	Mammal	Sus scrofa	2	
CT09	4/3/22	3:10:50	IMG_0045.AVI	Mammal	Sus scrofa	2	
CT09	4/3/22	3:11:10	IMG_0046.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:11:32	IMG_0047.AVI	Mammal	Sus scrofa	3	
CT09	4/3/22	3:11:54	IMG_0048.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:12:34	IMG_0049.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:12:56	IMG_0050.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:14:38	IMG_0051.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:15:00	IMG_0052.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:15:26	IMG_0053.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:16:52	IMG_0054.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:17:12	IMG_0055.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:17:40	IMG_0056.AVI	Mammal	Sus scrofa	2	
CT09	4/3/22	3:18:02	IMG_0057.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:18:24	IMG_0058.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:23:46	IMG_0059.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:28:58	IMG_0060.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:29:42	IMG_0061.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:31:38	IMG_0063.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:32:00	IMG_0064.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:40:26	IMG_0065.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:47:28	IMG_0066.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:48:02	IMG_0067.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	4/3/22	3:48:56	IMG_0068.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:49:18	IMG_0069.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:49:38	IMG_0070.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:50:02	IMG_0071.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:51:26	IMG_0072.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:51:52	IMG_0073.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:52:14	IMG_0074.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:52:52	IMG_0075.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:53:14	IMG_0076.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:53:36	IMG_0077.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:54:44	IMG_0078.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	3:55:20	IMG_0079.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	4:13:52	IMG_0080.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	4:14:20	IMG_0081.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	4:14:40	IMG_0082.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	4:30:02	IMG_0083.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	4:30:24	IMG_0084.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	4:30:44	IMG_0085.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	4:31:06	IMG_0086.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	4:34:04	IMG_0087.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	4:34:28	IMG_0088.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	4:34:48	IMG_0089.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	4:40:28	IMG_0090.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	4:41:02	IMG_0091.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	4:41:44	IMG_0092.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	4:43:56	IMG_0093.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	4:47:16	IMG_0094.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	4:48:00	IMG_0095.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	4:48:24	IMG_0096.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	4:48:44	IMG_0097.AVI	Mammal	Unidentified mammal	1	
CT09	4/3/22	4:49:06	IMG_0098.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	4:49:44	IMG_0099.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	5:06:48	IMG_0100.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	5:07:10	IMG_0101.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	5:07:30	IMG_0102.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	5:41:58	IMG_0104.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	5:42:20	IMG_0105.AVI	Mammal	Sus scrofa	2	
CT09	4/3/22	5:43:56	IMG_0106.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	5:44:16	IMG_0107.AVI	Mammal	Sus scrofa	2	
CT09	4/3/22	5:44:38	IMG_0108.AVI	Mammal	Sus scrofa	2	
CT09	4/3/22	5:45:16	IMG_0109.AVI	Mammal	Sus scrofa	2	
CT09	4/3/22	5:45:36	IMG_0110.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	5:45:58	IMG_0111.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	4/3/22	6:03:48	IMG_0112.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	6:04:46	IMG_0113.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	6:05:08	IMG_0114.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	6:28:52	IMG_0115.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	6:34:02	IMG_0118.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	6:34:26	IMG_0119.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	6:45:20	IMG_0120.AVI	Mammal	Sus scrofa	2	
CT09	4/3/22	7:11:50	IMG_0121.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	7:12:12	IMG_0122.AVI	Mammal	Sus scrofa	2	
CT09	4/3/22	7:13:04	IMG_0123.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	7:17:30	IMG_0124.AVI	Mammal	Sus scrofa	2	
CT09	4/3/22	7:17:54	IMG_0125.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	7:18:16	IMG_0126.AVI	Mammal	Sus scrofa	2	
CT09	4/3/22	7:18:38	IMG_0127.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	7:19:14	IMG_0128.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	7:25:40	IMG_0129.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	7:47:44	IMG_0130.AVI	Mammal	Sus scrofa	2	
CT09	4/3/22	9:59:40	IMG_0008.AVI	Bird	Gallus gallus	1	
CT09	4/3/22	10:09:40	IMG_0009.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	11:25:58	IMG_0010.AVI	Bird	Gallus gallus	1	
CT09	4/3/22	15:02:40	IMG_0012.AVI	Bird	Gallus gallus	1	
CT09	4/3/22	21:05:28	IMG_0013.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	23:00:38	IMG_0014.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	23:01:04	IMG_0015.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	23:06:28	IMG_0016.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	23:15:24	IMG_0017.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	23:21:18	IMG_0018.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	23:21:40	IMG_0019.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	23:22:02	IMG_0020.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	23:22:24	IMG_0021.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	23:22:44	IMG_0022.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	23:23:06	IMG_0023.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	23:23:28	IMG_0024.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	23:23:50	IMG_0025.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	23:24:12	IMG_0026.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	23:24:32	IMG_0027.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	23:24:54	IMG_0028.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	23:26:18	IMG_0030.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	23:26:42	IMG_0031.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	23:32:50	IMG_0032.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	23:33:12	IMG_0033.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	23:33:44	IMG_0034.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	23:34:14	IMG_0035.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	4/3/22	23:34:48	IMG_0036.AVI	Mammal	Sus scrofa	1	
CT09	4/3/22	23:35:12	IMG_0037.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	0:52:18	IMG_0183.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	5:55:30	IMG_0184.AVI	Mammal	Sus scrofa	2	
CT09	5/3/22	6:01:00	IMG_0185.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	6:01:22	IMG_0186.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	6:02:26	IMG_0187.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	6:17:32	IMG_0188.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	6:17:54	IMG_0189.AVI	Mammal	Sus scrofa	3	
CT09	5/3/22	6:18:14	IMG_0190.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	7:38:04	IMG_0191.AVI	Mammal	Canis lupus familiaris	3	
CT09	5/3/22	14:45:02	IMG_0131.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	14:47:42	IMG_0132.AVI	Mammal	Sus scrofa	2	
CT09	5/3/22	14:48:02	IMG_0133.AVI	Mammal	Sus scrofa	2	
CT09	5/3/22	14:52:12	IMG_0134.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	14:52:34	IMG_0135.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	14:52:56	IMG_0136.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	14:53:16	IMG_0137.AVI	Mammal	Sus scrofa	2	
CT09	5/3/22	14:53:38	IMG_0138.AVI	Mammal	Sus scrofa	2	
CT09	5/3/22	15:03:08	IMG_0139.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	15:20:00	IMG_0140.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	15:22:38	IMG_0141.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	15:38:02	IMG_0142.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	16:24:10	IMG_0143.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	17:20:40	IMG_0144.AVI	Mammal	Sus scrofa	2	
CT09	5/3/22	17:21:02	IMG_0145.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	17:21:24	IMG_0146.AVI	Mammal	Sus scrofa	2	
CT09	5/3/22	17:21:52	IMG_0147.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	17:22:14	IMG_0148.AVI	Mammal	Sus scrofa	2	
CT09	5/3/22	17:22:36	IMG_0149.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	17:27:56	IMG_0150.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	17:31:08	IMG_0151.AVI	Bird	Gallus gallus	1	
CT09	5/3/22	17:32:58	IMG_0152.AVI	Bird	Gallus gallus	1	
CT09	5/3/22	18:01:52	IMG_0153.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	18:11:16	IMG_0154.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	18:14:34	IMG_0155.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	18:30:10	IMG_0156.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	18:31:38	IMG_0157.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	18:32:52	IMG_0158.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	18:40:56	IMG_0159.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	18:41:18	IMG_0160.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	18:41:40	IMG_0161.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	18:42:00	IMG_0162.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	5/3/22	18:42:26	IMG_0163.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	18:47:48	IMG_0164.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	18:48:20	IMG_0165.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	18:48:42	IMG_0166.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	18:58:34	IMG_0167.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	19:34:18	IMG_0168.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	19:34:40	IMG_0169.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	19:35:04	IMG_0170.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	20:16:48	IMG_0172.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	20:22:10	IMG_0173.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	21:01:10	IMG_0174.AVI	Mammal	Sus scrofa	3	
CT09	5/3/22	21:01:30	IMG_0175.AVI	Mammal	Sus scrofa	2	
CT09	5/3/22	21:09:32	IMG_0177.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	21:10:02	IMG_0178.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	21:11:46	IMG_0179.AVI	Mammal	Sus scrofa	1	
CT09	5/3/22	21:12:22	IMG_0180.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	0:16:24	IMG_0255.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	0:16:48	IMG_0256.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	0:17:08	IMG_0257.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	0:17:30	IMG_0258.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	0:17:50	IMG_0259.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	0:18:56	IMG_0260.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	0:19:20	IMG_0261.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	0:19:42	IMG_0262.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	0:20:10	IMG_0263.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	0:26:28	IMG_0265.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	0:58:06	IMG_0266.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	1:01:58	IMG_0267.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	1:02:20	IMG_0268.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	1:02:56	IMG_0269.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	1:03:18	IMG_0270.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	1:03:40	IMG_0271.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	1:04:02	IMG_0272.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	1:04:30	IMG_0273.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	1:04:50	IMG_0274.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	1:05:12	IMG_0275.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	1:29:24	IMG_0276.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	1:29:44	IMG_0277.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	1:33:16	IMG_0278.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	1:42:10	IMG_0279.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	1:42:32	IMG_0280.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	1:45:32	IMG_0281.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	2:01:44	IMG_0283.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	6/3/22	2:28:44	IMG_0285.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	5:10:58	IMG_0286.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	5:11:40	IMG_0288.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	5:15:02	IMG_0289.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	5:15:24	IMG_0290.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	5:15:46	IMG_0291.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	5:16:06	IMG_0292.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	5:32:06	IMG_0293.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	5:55:30	IMG_0295.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	5:55:52	IMG_0296.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	6:19:22	IMG_0298.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	7:37:40	IMG_0299.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	7:42:44	IMG_0300.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	7:45:10	IMG_0301.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	7:45:54	IMG_0302.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	7:46:36	IMG_0303.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	7:47:10	IMG_0304.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	7:47:32	IMG_0305.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	7:47:54	IMG_0306.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	7:48:22	IMG_0307.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	7:49:12	IMG_0308.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	7:50:42	IMG_0309.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	7:54:42	IMG_0310.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	12:36:22	IMG_0192.AVI	Mammal	Sus scrofa	3	
CT09	6/3/22	12:36:50	IMG_0193.AVI	Mammal	Sus scrofa	2	
CT09	6/3/22	12:37:14	IMG_0194.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	12:39:28	IMG_0195.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	12:39:52	IMG_0196.AVI	Mammal	Sus scrofa	2	
CT09	6/3/22	12:40:22	IMG_0197.AVI	Mammal	Sus scrofa	3	
CT09	6/3/22	12:42:36	IMG_0198.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	12:50:50	IMG_0199.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	12:51:24	IMG_0200.AVI	Mammal	Sus scrofa	2	
CT09	6/3/22	12:51:52	IMG_0201.AVI	Mammal	Sus scrofa	2	
CT09	6/3/22	12:54:36	IMG_0202.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	12:54:58	IMG_0203.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	17:55:46	IMG_0204.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	17:56:10	IMG_0205.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	19:10:14	IMG_0206.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	19:14:48	IMG_0207.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	19:15:16	IMG_0208.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	19:15:38	IMG_0209.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	19:16:00	IMG_0210.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	19:16:22	IMG_0211.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	6/3/22	19:16:44	IMG_0212.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	19:18:12	IMG_0213.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	19:18:34	IMG_0214.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	19:18:54	IMG_0215.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	19:19:16	IMG_0216.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	19:22:18	IMG_0217.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	19:36:18	IMG_0218.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	19:37:44	IMG_0220.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	19:41:22	IMG_0221.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	19:41:42	IMG_0222.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	19:42:46	IMG_0225.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	19:43:16	IMG_0226.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	19:43:38	IMG_0227.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	20:12:48	IMG_0229.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	20:13:12	IMG_0230.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	20:13:32	IMG_0231.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	20:14:36	IMG_0232.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	20:16:58	IMG_0233.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	20:21:16	IMG_0234.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	20:21:48	IMG_0235.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	20:26:48	IMG_0236.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	20:41:44	IMG_0237.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	21:16:44	IMG_0238.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	21:29:18	IMG_0239.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	21:29:46	IMG_0240.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	21:30:06	IMG_0241.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	21:30:30	IMG_0242.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	21:30:52	IMG_0243.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	21:31:14	IMG_0244.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	23:32:52	IMG_0245.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	23:35:48	IMG_0246.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	23:37:18	IMG_0247.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	23:37:42	IMG_0248.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	23:38:04	IMG_0249.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	23:38:26	IMG_0250.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	23:39:04	IMG_0251.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	23:39:36	IMG_0252.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	23:42:18	IMG_0253.AVI	Mammal	Sus scrofa	1	
CT09	6/3/22	23:43:02	IMG_0254.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	1:10:14	IMG_0334.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	1:11:22	IMG_0335.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	1:25:16	IMG_0336.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	1:41:48	IMG_0337.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	7/3/22	1:42:40	IMG_0338.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	1:43:00	IMG_0339.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	1:48:42	IMG_0340.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	1:51:28	IMG_0341.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	2:46:50	IMG_0342.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	3:43:16	IMG_0343.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	4:54:16	IMG_0344.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	5:10:46	IMG_0345.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	5:11:34	IMG_0346.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	5:11:56	IMG_0347.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	5:23:28	IMG_0348.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	5:23:58	IMG_0349.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	5:25:16	IMG_0350.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	5:25:40	IMG_0351.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	5:26:00	IMG_0352.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	5:26:36	IMG_0353.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	5:27:00	IMG_0354.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	7:36:06	IMG_0355.AVI	Bird	Gallus gallus	1	
CT09	7/3/22	8:39:44	IMG_0311.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	8:40:06	IMG_0312.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	16:57:58	IMG_0315.AVI	Bird	Gallus gallus	1	
CT09	7/3/22	18:53:26	IMG_0316.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	18:54:50	IMG_0317.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	18:57:28	IMG_0318.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	19:00:32	IMG_0319.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	19:01:20	IMG_0320.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	19:02:40	IMG_0321.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	19:17:20	IMG_0322.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	19:24:06	IMG_0323.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	19:24:26	IMG_0324.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	22:16:18	IMG_0326.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	22:16:52	IMG_0327.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	22:17:12	IMG_0328.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	22:42:04	IMG_0329.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	22:43:32	IMG_0330.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	22:54:16	IMG_0331.AVI	Mammal	Sus scrofa	1	
CT09	7/3/22	22:54:40	IMG_0332.AVI	Mammal	Sus scrofa	1	
CT09	8/3/22	1:32:06	IMG_0370.AVI	Mammal	Sus scrofa	1	
CT09	8/3/22	1:32:56	IMG_0371.AVI	Mammal	Sus scrofa	1	
CT09	8/3/22	1:38:04	IMG_0372.AVI	Mammal	Sus scrofa	1	
CT09	8/3/22	1:38:26	IMG_0373.AVI	Mammal	Sus scrofa	1	
CT09	8/3/22	1:39:58	IMG_0374.AVI	Mammal	Sus scrofa	1	
CT09	8/3/22	1:40:48	IMG_0375.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	8/3/22	2:35:58	IMG_0376.AVI	Bat	Unidentified bat	1	
CT09	8/3/22	4:17:12	IMG_0377.AVI	Mammal	Sus scrofa	1	
CT09	8/3/22	4:17:32	IMG_0378.AVI	Mammal	Sus scrofa	1	
CT09	8/3/22	4:17:54	IMG_0379.AVI	Mammal	Sus scrofa	1	
CT09	8/3/22	4:18:18	IMG_0380.AVI	Mammal	Sus scrofa	1	
CT09	8/3/22	4:18:40	IMG_0381.AVI	Mammal	Sus scrofa	1	
CT09	8/3/22	4:19:04	IMG_0382.AVI	Mammal	Sus scrofa	1	
CT09	8/3/22	4:19:26	IMG_0383.AVI	Mammal	Sus scrofa	1	
CT09	8/3/22	4:19:52	IMG_0384.AVI	Mammal	Sus scrofa	1	
CT09	8/3/22	4:24:14	IMG_0385.AVI	Mammal	Sus scrofa	1	
CT09	8/3/22	4:27:06	IMG_0386.AVI	Mammal	Sus scrofa	1	
CT09	8/3/22	4:46:18	IMG_0387.AVI	Mammal	Sus scrofa	1	
CT09	8/3/22	4:49:58	IMG_0388.AVI	Mammal	Sus scrofa	1	
CT09	8/3/22	5:33:48	IMG_0389.AVI	Mammal	Sus scrofa	1	
CT09	8/3/22	7:53:44	IMG_0390.AVI	Bird	Gallus gallus	1	
CT09	8/3/22	10:03:50	IMG_0356.AVI	Bird	Gallus gallus	1	
CT09	8/3/22	10:06:24	IMG_0357.AVI	Bird	Gallus gallus	1	
CT09	8/3/22	10:10:08	IMG_0358.AVI	Bird	Gallus gallus	1	
CT09	8/3/22	17:58:36	IMG_0359.AVI	Mammal	Sus scrofa	1	
CT09	8/3/22	17:59:00	IMG_0360.AVI	Mammal	Sus scrofa	1	
CT09	8/3/22	17:59:20	IMG_0361.AVI	Mammal	Sus scrofa	1	
CT09	8/3/22	18:12:36	IMG_0362.AVI	Mammal	Sus scrofa	1	
CT09	8/3/22	18:42:18	IMG_0363.AVI	Mammal	Sus scrofa	1	
CT09	8/3/22	18:42:38	IMG_0364.AVI	Mammal	Sus scrofa	1	
CT09	8/3/22	18:43:00	IMG_0365.AVI	Mammal	Sus scrofa	1	
CT09	8/3/22	21:56:50	IMG_0366.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	0:33:40	IMG_0407.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	0:55:24	IMG_0408.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	1:01:12	IMG_0409.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	1:05:32	IMG_0410.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	1:05:52	IMG_0411.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	1:06:18	IMG_0412.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	1:06:42	IMG_0413.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	1:07:04	IMG_0414.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	3:26:30	IMG_0416.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	3:26:52	IMG_0417.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	3:35:48	IMG_0418.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	3:40:58	IMG_0419.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	3:57:20	IMG_0420.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	3:58:04	IMG_0421.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	3:58:26	IMG_0422.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	3:58:48	IMG_0423.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	3:59:10	IMG_0424.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	9/3/22	4:03:06	IMG_0425.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	4:04:16	IMG_0426.AVI	Mammal	Sus scrofa	2	
CT09	9/3/22	4:05:28	IMG_0427.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	4:06:34	IMG_0428.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	4:07:22	IMG_0429.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	4:35:56	IMG_0430.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	4:37:32	IMG_0431.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	4:37:54	IMG_0432.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	4:38:16	IMG_0433.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	5:01:02	IMG_0434.AVI	Mammal	Sus scrofa	2	
CT09	9/3/22	5:01:24	IMG_0435.AVI	Mammal	Sus scrofa	2	
CT09	9/3/22	5:01:46	IMG_0436.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	5:04:12	IMG_0438.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	5:31:28	IMG_0439.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	5:31:50	IMG_0440.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	5:51:34	IMG_0441.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	5:51:56	IMG_0442.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	6:10:26	IMG_0443.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	6:10:54	IMG_0444.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	6:11:20	IMG_0445.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	6:11:42	IMG_0446.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	6:12:02	IMG_0447.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	6:12:24	IMG_0448.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	6:28:32	IMG_0449.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	8:15:10	IMG_0392.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	8:20:50	IMG_0393.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	18:23:30	IMG_0394.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	18:24:22	IMG_0395.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	18:24:22	IMG_0395.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT09	9/3/22	18:24:56	IMG_0396.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	18:36:58	IMG_0397.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	19:14:32	IMG_0398.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	19:24:18	IMG_0399.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	21:38:48	IMG_0400.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	22:42:26	IMG_0401.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	22:45:48	IMG_0402.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	22:55:06	IMG_0403.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	23:11:34	IMG_0404.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	23:22:32	IMG_0405.AVI	Mammal	Sus scrofa	1	
CT09	9/3/22	23:31:12	IMG_0406.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	0:19:04	IMG_0488.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	1:20:38	IMG_0490.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	1:32:20	IMG_0491.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	10/3/22	1:32:40	IMG_0492.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	1:33:02	IMG_0493.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	1:59:32	IMG_0494.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	2:05:02	IMG_0495.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	2:05:22	IMG_0496.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	2:05:48	IMG_0497.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	2:06:14	IMG_0498.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	2:06:34	IMG_0499.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	2:22:50	IMG_0500.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	2:49:26	IMG_0501.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	2:50:10	IMG_0502.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	3:14:44	IMG_0504.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	3:26:46	IMG_0505.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	4:28:42	IMG_0506.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	4:29:30	IMG_0507.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	4:29:52	IMG_0508.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	4:38:36	IMG_0509.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	5:02:42	IMG_0510.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	5:03:02	IMG_0511.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	5:30:12	IMG_0512.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	5:30:34	IMG_0513.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	5:36:02	IMG_0514.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	5:45:02	IMG_0515.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	6:22:14	IMG_0516.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	6:22:34	IMG_0517.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	6:27:58	IMG_0518.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	6:29:36	IMG_0520.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	6:54:20	IMG_0522.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	6:54:44	IMG_0523.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	7:06:30	IMG_0525.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	7:12:02	IMG_0526.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	7:12:40	IMG_0527.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	7:13:00	IMG_0528.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	7:13:22	IMG_0529.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	7:15:18	IMG_0530.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	7:15:46	IMG_0531.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	7:16:46	IMG_0532.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	7:17:14	IMG_0533.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	7:22:34	IMG_0534.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	7:29:24	IMG_0535.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	7:32:22	IMG_0536.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	7:32:44	IMG_0537.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	7:36:16	IMG_0538.AVI	Mammal	Sus scrofa	2	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	10/3/22	7:38:50	IMG_0539.AVI	Mammal	Sus scrofa	2	
CT09	10/3/22	7:41:50	IMG_0540.AVI	Mammal	Sus scrofa	2	
CT09	10/3/22	7:42:12	IMG_0541.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	7:43:10	IMG_0542.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	7:43:30	IMG_0543.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	7:43:52	IMG_0544.AVI	Mammal	Sus scrofa	2	
CT09	10/3/22	7:49:02	IMG_0545.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	7:49:24	IMG_0546.AVI	Mammal	Sus scrofa	2	
CT09	10/3/22	7:56:46	IMG_0547.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	8:17:18	IMG_0450.AVI	Bird	Gallus gallus	1	
CT09	10/3/22	8:19:44	IMG_0451.AVI	Bird	Gallus gallus	1	
CT09	10/3/22	9:06:46	IMG_0452.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	9:50:08	IMG_0453.AVI	Bird	Gallus gallus	1	
CT09	10/3/22	9:50:08	IMG_0453.AVI	Mammal	Tupaia glis	1	
CT09	10/3/22	9:50:30	IMG_0454.AVI	Bird	Gallus gallus	1	
CT09	10/3/22	9:53:24	IMG_0455.AVI	Bird	Gallus gallus	1	
CT09	10/3/22	9:54:42	IMG_0456.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	10:09:10	IMG_0457.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	10:09:10	IMG_0457.AVI	Mammal	Tupaia glis	1	
CT09	10/3/22	10:35:14	IMG_0458.AVI	Bird	Gallus gallus	2	
CT09	10/3/22	12:41:50	IMG_0459.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	18:02:48	IMG_0460.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	18:02:48	IMG_0460.AVI	Bird	Gallus gallus	1	
CT09	10/3/22	18:03:16	IMG_0461.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	18:14:24	IMG_0462.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	18:35:36	IMG_0463.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	18:36:32	IMG_0464.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	18:37:32	IMG_0465.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	18:38:06	IMG_0466.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	18:38:28	IMG_0467.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	18:39:10	IMG_0468.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	19:11:06	IMG_0469.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	19:11:46	IMG_0470.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	19:14:32	IMG_0471.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	19:28:00	IMG_0472.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	19:28:22	IMG_0473.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	19:28:44	IMG_0474.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	19:29:14	IMG_0475.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	19:55:28	IMG_0476.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	19:55:58	IMG_0477.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	19:57:50	IMG_0478.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	19:58:12	IMG_0479.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	20:00:36	IMG_0480.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	10/3/22	20:00:58	IMG_0481.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	20:01:18	IMG_0482.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	20:14:56	IMG_0483.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	21:45:48	IMG_0484.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	21:45:48	IMG_0484.AVI	Bat	Unidentified bat	1	
CT09	10/3/22	22:42:52	IMG_0485.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	22:43:48	IMG_0486.AVI	Mammal	Sus scrofa	1	
CT09	10/3/22	22:44:10	IMG_0487.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	1:12:12	IMG_0578.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	1:44:56	IMG_0580.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	1:48:50	IMG_0581.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	1:49:14	IMG_0582.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	1:49:40	IMG_0583.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	3:03:26	IMG_0585.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	3:33:18	IMG_0587.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	3:56:28	IMG_0588.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	4:06:52	IMG_0589.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	4:08:44	IMG_0590.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	4:08:44	IMG_0590.AVI	Bat	Unidentified bat	1	
CT09	11/3/22	5:14:20	IMG_0592.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	5:14:20	IMG_0592.AVI	Bat	Unidentified bat	1	
CT09	11/3/22	5:24:02	IMG_0593.AVI	Bat	Unidentified bat	1	
CT09	11/3/22	5:45:28	IMG_0595.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	5:45:48	IMG_0596.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	5:46:16	IMG_0597.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	5:46:38	IMG_0598.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	5:57:00	IMG_0599.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	5:59:36	IMG_0600.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	6:02:20	IMG_0601.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	6:02:40	IMG_0602.AVI	Mammal	Sus scrofa	2	
CT09	11/3/22	7:06:12	IMG_0603.AVI	Mammal	Sus scrofa	2	
CT09	11/3/22	7:07:26	IMG_0604.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	7:11:10	IMG_0605.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	7:16:00	IMG_0606.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	7:17:02	IMG_0607.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	7:21:18	IMG_0608.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	7:21:40	IMG_0609.AVI	Mammal	Sus scrofa	3	
CT09	11/3/22	7:21:40	IMG_0609.AVI	Bird	Gallus gallus	1	
CT09	11/3/22	7:22:00	IMG_0610.AVI	Mammal	Sus scrofa	2	
CT09	11/3/22	7:25:28	IMG_0611.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	7:28:58	IMG_0612.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	7:28:58	IMG_0612.AVI	Bird	Gallus gallus	1	
CT09	11/3/22	8:01:04	IMG_0548.AVI	Mammal	Sus scrofa	2	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	11/3/22	8:07:10	IMG_0549.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	8:18:42	IMG_0550.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	8:24:12	IMG_0551.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	8:29:36	IMG_0552.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	8:37:14	IMG_0553.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	9:29:14	IMG_0554.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	11:44:38	IMG_0555.AVI	Mammal	Sus scrofa	2	
CT09	11/3/22	11:52:08	IMG_0556.AVI	Mammal	Sus scrofa	2	
CT09	11/3/22	11:52:30	IMG_0557.AVI	Mammal	Sus scrofa	2	
CT09	11/3/22	11:57:42	IMG_0558.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	11:57:42	IMG_0558.AVI	Bird	Gallus gallus	1	
CT09	11/3/22	12:09:40	IMG_0559.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	13:09:48	IMG_0560.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	13:13:36	IMG_0561.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	14:34:44	IMG_0562.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	14:35:06	IMG_0563.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	14:39:22	IMG_0564.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	16:58:02	IMG_0565.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	17:11:56	IMG_0566.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	17:14:56	IMG_0567.AVI	Bird	Gallus gallus	1	
CT09	11/3/22	17:18:04	IMG_0568.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	17:53:36	IMG_0569.AVI	Bird	Gallus gallus	1	
CT09	11/3/22	17:53:36	IMG_0569.AVI	Mammal	Tupaia glis	1	
CT09	11/3/22	19:08:18	IMG_0570.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	19:09:00	IMG_0571.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	19:14:04	IMG_0572.AVI	Mammal	Sus scrofa	2	
CT09	11/3/22	19:17:20	IMG_0573.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	19:18:40	IMG_0574.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	22:34:16	IMG_0575.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	23:12:06	IMG_0576.AVI	Mammal	Sus scrofa	1	
CT09	11/3/22	23:29:46	IMG_0577.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	0:08:42	IMG_0683.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	0:12:12	IMG_0684.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	0:41:14	IMG_0685.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	1:00:06	IMG_0686.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	1:00:48	IMG_0687.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	1:08:02	IMG_0688.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	1:08:30	IMG_0689.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	1:08:50	IMG_0690.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	1:09:12	IMG_0691.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	1:13:44	IMG_0693.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	1:26:22	IMG_0694.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	1:26:52	IMG_0695.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	12/3/22	1:27:18	IMG_0696.AVI	Mammal	Sus scrofa	2	
CT09	12/3/22	1:27:42	IMG_0697.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	1:59:08	IMG_0698.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	2:50:48	IMG_0699.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	2:56:26	IMG_0700.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	3:02:04	IMG_0701.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	3:05:06	IMG_0702.AVI	Mammal	Sus scrofa	2	
CT09	12/3/22	3:33:14	IMG_0703.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	3:57:36	IMG_0704.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	3:58:00	IMG_0705.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	4:09:00	IMG_0706.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	4:09:22	IMG_0707.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	4:09:54	IMG_0708.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	4:29:36	IMG_0709.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	4:30:04	IMG_0710.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	4:32:30	IMG_0711.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	4:36:08	IMG_0712.AVI	Mammal	Sus scrofa	3	
CT09	12/3/22	4:36:30	IMG_0713.AVI	Mammal	Sus scrofa	2	
CT09	12/3/22	4:47:38	IMG_0715.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	4:51:44	IMG_0716.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	4:56:02	IMG_0718.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	5:02:44	IMG_0719.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	5:03:04	IMG_0720.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	5:03:48	IMG_0721.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	5:04:08	IMG_0722.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	5:21:10	IMG_0723.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	5:23:08	IMG_0724.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	5:24:10	IMG_0725.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	5:25:40	IMG_0726.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	5:37:06	IMG_0730.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	5:37:06	IMG_0730.AVI	Bat	Unidentified bat	3	
CT09	12/3/22	6:10:42	IMG_0731.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	6:16:06	IMG_0732.AVI	Mammal	Sus scrofa	2	
CT09	12/3/22	6:24:34	IMG_0733.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	6:27:32	IMG_0734.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	6:44:40	IMG_0735.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	6:52:30	IMG_0736.AVI	Mammal	Sus scrofa	2	
CT09	12/3/22	6:53:56	IMG_0737.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	7:24:32	IMG_0738.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	7:25:30	IMG_0739.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	7:32:20	IMG_0740.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	7:36:10	IMG_0741.AVI	Mammal	Sus scrofa	2	
CT09	12/3/22	7:36:36	IMG_0742.AVI	Mammal	Sus scrofa	3	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	12/3/22	7:36:58	IMG_0743.AVI	Mammal	Sus scrofa	4	
CT09	12/3/22	7:37:18	IMG_0744.AVI	Mammal	Sus scrofa	3	
CT09	12/3/22	7:37:40	IMG_0745.AVI	Mammal	Sus scrofa	3	
CT09	12/3/22	7:40:18	IMG_0746.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	7:40:38	IMG_0747.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	7:43:06	IMG_0748.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	7:47:00	IMG_0749.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	7:47:48	IMG_0750.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	13:03:36	IMG_0613.AVI	Mammal	Sus scrofa	3	
CT09	12/3/22	13:04:22	IMG_0614.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	13:04:52	IMG_0615.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	13:05:32	IMG_0616.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	13:07:14	IMG_0617.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	13:07:48	IMG_0618.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	13:15:10	IMG_0619.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	13:15:52	IMG_0620.AVI	Mammal	Sus scrofa	2	
CT09	12/3/22	13:17:24	IMG_0621.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	13:18:24	IMG_0622.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	13:23:24	IMG_0623.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	13:28:10	IMG_0624.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	13:29:02	IMG_0625.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	13:58:10	IMG_0626.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	14:00:04	IMG_0627.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	14:00:46	IMG_0629.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	14:05:38	IMG_0630.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	15:42:46	IMG_0632.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	15:54:48	IMG_0633.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	15:57:24	IMG_0634.AVI	Mammal	Sus scrofa	2	
CT09	12/3/22	15:57:46	IMG_0635.AVI	Mammal	Sus scrofa	2	
CT09	12/3/22	15:58:12	IMG_0636.AVI	Mammal	Sus scrofa	2	
CT09	12/3/22	15:58:40	IMG_0637.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	15:59:02	IMG_0638.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	15:59:26	IMG_0639.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	15:59:48	IMG_0640.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	16:37:08	IMG_0642.AVI	Bird	Gallus gallus	1	
CT09	12/3/22	16:46:28	IMG_0643.AVI	Bird	Gallus gallus	1	
CT09	12/3/22	17:18:50	IMG_0644.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	17:44:04	IMG_0645.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	17:44:26	IMG_0646.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	17:44:52	IMG_0647.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	17:45:16	IMG_0648.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	17:45:42	IMG_0649.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	17:54:36	IMG_0650.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	12/3/22	18:02:14	IMG_0651.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	18:07:36	IMG_0652.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	18:30:44	IMG_0653.AVI	Mammal	Sus scrofa	2	
CT09	12/3/22	18:31:04	IMG_0654.AVI	Mammal	Sus scrofa	3	
CT09	12/3/22	18:31:50	IMG_0655.AVI	Mammal	Sus scrofa	2	
CT09	12/3/22	18:32:10	IMG_0656.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	18:32:32	IMG_0657.AVI	Mammal	Sus scrofa	2	
CT09	12/3/22	18:32:54	IMG_0658.AVI	Mammal	Sus scrofa	2	
CT09	12/3/22	18:33:28	IMG_0659.AVI	Mammal	Sus scrofa	2	
CT09	12/3/22	18:34:50	IMG_0660.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	18:42:50	IMG_0661.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	18:43:10	IMG_0662.AVI	Mammal	Sus scrofa	2	
CT09	12/3/22	18:51:08	IMG_0663.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	18:51:30	IMG_0664.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	18:57:14	IMG_0665.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	18:57:40	IMG_0666.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	18:58:02	IMG_0667.AVI	Mammal	Sus scrofa	2	
CT09	12/3/22	18:59:28	IMG_0668.AVI	Mammal	Sus scrofa	2	
CT09	12/3/22	18:59:50	IMG_0669.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	19:01:00	IMG_0670.AVI	Mammal	Sus scrofa	3	
CT09	12/3/22	19:01:34	IMG_0671.AVI	Mammal	Sus scrofa	2	
CT09	12/3/22	19:48:46	IMG_0673.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	20:31:12	IMG_0674.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	20:35:46	IMG_0675.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	20:47:40	IMG_0676.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	21:35:08	IMG_0677.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	21:37:08	IMG_0678.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	21:37:30	IMG_0679.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	22:31:14	IMG_0680.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	23:15:06	IMG_0681.AVI	Mammal	Sus scrofa	1	
CT09	12/3/22	23:15:28	IMG_0682.AVI	Mammal	Sus scrofa	1	
CT09	13/3/22	8:02:28	IMG_0751.AVI	Mammal	Sus scrofa	1	
CT09	13/3/22	8:10:16	IMG_0752.AVI	Mammal	Sus scrofa	1	
CT09	13/3/22	8:11:32	IMG_0753.AVI	Mammal	Sus scrofa	1	
CT09	13/3/22	16:36:34	IMG_0754.AVI	Mammal	Sus scrofa	1	
CT09	13/3/22	16:37:12	IMG_0755.AVI	Mammal	Sus scrofa	3	
CT09	13/3/22	16:37:34	IMG_0756.AVI	Mammal	Sus scrofa	4	
CT09	13/3/22	16:37:54	IMG_0757.AVI	Mammal	Sus scrofa	2	
CT09	13/3/22	16:38:16	IMG_0758.AVI	Mammal	Sus scrofa	3	
CT09	13/3/22	16:39:22	IMG_0759.AVI	Mammal	Sus scrofa	2	
CT09	13/3/22	16:39:50	IMG_0760.AVI	Mammal	Sus scrofa	2	
CT09	13/3/22	16:40:12	IMG_0761.AVI	Mammal	Sus scrofa	4	
CT09	13/3/22	16:40:42	IMG_0762.AVI	Mammal	Sus scrofa	3	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT09	13/3/22	16:41:02	IMG_0763.AVI	Mammal	Sus scrofa	3	
CT09	13/3/22	16:41:26	IMG_0764.AVI	Mammal	Sus scrofa	1	
CT09	13/3/22	16:41:56	IMG_0765.AVI	Mammal	Sus scrofa	1	
CT09	13/3/22	16:42:22	IMG_0766.AVI	Mammal	Sus scrofa	2	
CT09	13/3/22	16:42:52	IMG_0767.AVI	Mammal	Sus scrofa	2	
CT09	13/3/22	16:45:32	IMG_0768.AVI	Mammal	Sus scrofa	1	
CT09	13/3/22	16:45:52	IMG_0769.AVI	Mammal	Sus scrofa	1	
CT09	13/3/22	16:46:14	IMG_0770.AVI	Mammal	Sus scrofa	1	
CT09	13/3/22	16:47:10	IMG_0771.AVI	Mammal	Sus scrofa	1	
CT09	13/3/22	16:53:48	IMG_0772.AVI	Mammal	Sus scrofa	1	
CT09	13/3/22	16:55:56	IMG_0773.AVI	Mammal	Sus scrofa	1	
CT10	6/12/21	11:45:52	IMG_0013.AVI	Reptile	Varanus sp.	1	
CT10	6/12/21	17:01:34	IMG_0014.AVI	Bird	Picus vittatus	1	
CT10	6/12/21	17:16:56	IMG_0015.AVI	Bird	Picus vittatus	1	
CT10	6/12/21	17:16:56	IMG_0015.AVI	Bird	Gallus gallus	1	
CT10	6/12/21	17:17:58	IMG_0016.AVI	Bird	Gallus gallus	1	
CT10	7/12/21	16:31:46	IMG_0017.AVI	Bird	Acridotheres javanicus	1	
CT10	7/12/21	16:32:08	IMG_0018.AVI	Bird	Acridotheres javanicus	1	
CT10	7/12/21	22:30:06	IMG_0019.AVI	N.A	Unidentified sp.	1	
CT10	9/12/21	14:24:26	IMG_0020.AVI	Mammal	Sus scrofa	1	
CT10	13/12/21	17:26:26	IMG_0003.AVI	Mammal	Canis lupus familiaris	2	
CT10	13/12/21	17:27:58	IMG_0004.AVI	Mammal	Canis lupus familiaris	2	
CT10	13/12/21	17:39:16	IMG_0005.AVI	Mammal	Canis lupus familiaris	1	
CT10	13/12/21	17:39:38	IMG_0006.AVI	Mammal	Canis lupus familiaris	1	
CT10	13/12/21	17:40:00	IMG_0007.AVI	Mammal	Canis lupus familiaris	1	
CT10	13/12/21	20:35:54	IMG_0008.AVI	Mammal	Sus scrofa	1	
CT10	17/12/21	6:54:54	IMG_0033.AVI	Bird	Amaurornis phoenicurus	1	
CT10	17/12/21	15:07:50	IMG_0022.AVI	Mammal	Sus scrofa	1	
CT10	17/12/21	15:08:12	IMG_0023.AVI	Mammal	Sus scrofa	1	
CT10	17/12/21	15:08:34	IMG_0024.AVI	Mammal	Sus scrofa	1	
CT10	17/12/21	15:08:54	IMG_0025.AVI	Mammal	Sus scrofa	2	
CT10	17/12/21	15:09:16	IMG_0026.AVI	Mammal	Sus scrofa	2	
CT10	17/12/21	15:09:36	IMG_0027.AVI	Mammal	Sus scrofa	2	
CT10	17/12/21	15:09:58	IMG_0028.AVI	Mammal	Sus scrofa	1	
CT10	17/12/21	15:10:18	IMG_0029.AVI	Mammal	Sus scrofa	1	
CT10	17/12/21	15:11:04	IMG_0030.AVI	Mammal	Sus scrofa	2	
CT10	17/12/21	15:12:04	IMG_0031.AVI	Mammal	Sus scrofa	1	
CT10	17/12/21	18:43:54	IMG_0032.AVI	Bird	Amaurornis phoenicurus	1	
CT10	18/12/21	9:52:30	IMG_0034.AVI	Bird	Gallus gallus	1	
CT10	18/12/21	10:00:46	IMG_0035.AVI	Bird	Gallus gallus	2	
CT10	18/12/21	10:01:40	IMG_0036.AVI	Bird	Gallus gallus	1	
CT10	18/12/21	10:03:20	IMG_0037.AVI	Bird	Amaurornis phoenicurus	1	
CT10	18/12/21	10:03:20	IMG_0037.AVI	Bird	Gallus gallus	2	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT10	18/12/21	15:10:26	IMG_0038.AVI	Bird	Amaurornis phoenicurus	2	
CT10	18/12/21	16:07:22	IMG_0039.AVI	Bird	Amaurornis phoenicurus	1	
CT10	18/12/21	17:12:04	IMG_0040.AVI	Bird	Amaurornis phoenicurus	1	
CT10	18/12/21	19:01:34	IMG_0041.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/12/21	5:20:36	IMG_0049.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/12/21	5:21:42	IMG_0050.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/12/21	5:22:54	IMG_0051.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/12/21	5:23:14	IMG_0052.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/12/21	5:24:46	IMG_0053.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/12/21	6:54:32	IMG_0054.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/12/21	6:57:32	IMG_0055.AVI	Bird	Amaurornis phoenicurus	3	
CT10	19/12/21	7:35:20	IMG_0057.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/12/21	8:01:28	IMG_0042.AVI	Bird	Amaurornis phoenicurus	3	
CT10	19/12/21	10:27:52	IMG_0043.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/12/21	11:08:08	IMG_0044.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/12/21	11:49:32	IMG_0045.AVI	Bird	Amaurornis phoenicurus	2	
CT10	19/12/21	14:20:18	IMG_0046.AVI	Bird	Amaurornis phoenicurus	2	
CT10	19/12/21	15:48:52	IMG_0047.AVI	Bird	Amaurornis phoenicurus	2	
CT10	19/12/21	16:20:20	IMG_0048.AVI	Bird	Amaurornis phoenicurus	2	
CT10	20/12/21	7:05:52	IMG_0064.AVI	Bird	Amaurornis phoenicurus	2	
CT10	20/12/21	9:27:08	IMG_0058.AVI	Bird	Amaurornis phoenicurus	2	
CT10	20/12/21	11:35:40	IMG_0059.AVI	Bird	Acridotheres javanicus	2	
CT10	20/12/21	13:16:44	IMG_0060.AVI	Bird	Amaurornis phoenicurus	2	
CT10	20/12/21	14:02:30	IMG_0061.AVI	Bird	Centropus sinensis	2	
CT10	20/12/21	17:28:08	IMG_0062.AVI	Bird	Gallus gallus	2	
CT10	21/12/21	6:58:18	IMG_0071.AVI	N.A	Unidentified sp.	2	
CT10	21/12/21	7:11:44	IMG_0072.AVI	Bird	Amaurornis phoenicurus	3	
CT10	21/12/21	7:11:44	IMG_0072.AVI	Mammal	Canis lupus familiaris	1	
CT10	21/12/21	7:19:18	IMG_0073.AVI	Mammal	Canis lupus familiaris	1	
CT10	21/12/21	7:19:42	IMG_0074.AVI	Mammal	Canis lupus familiaris	1	
CT10	21/12/21	7:50:44	IMG_0075.AVI	Bird	Amaurornis phoenicurus	1	
CT10	21/12/21	7:59:06	IMG_0076.AVI	Mammal	Canis lupus familiaris	2	
CT10	21/12/21	12:19:04	IMG_0065.AVI	Reptile	Varanus salvator	1	
CT10	21/12/21	14:06:28	IMG_0066.AVI	Reptile	Varanus salvator	1	
CT10	21/12/21	15:12:30	IMG_0067.AVI	Mammal	Callosciurus notatus	1	
CT10	21/12/21	15:39:18	IMG_0068.AVI	Bird	Amaurornis phoenicurus	1	
CT10	21/12/21	16:29:50	IMG_0069.AVI	Bird	Amaurornis phoenicurus	1	
CT10	21/12/21	18:38:48	IMG_0070.AVI	Bird	Unidentified bird	1	
CT10	22/12/21	16:32:00	IMG_0077.AVI	Bird	Gallus gallus	1	
CT10	22/12/21	23:26:08	IMG_0078.AVI	Mammal	Rattus sp.	1	
CT10	23/12/21	6:54:02	IMG_0103.AVI	Mammal	Unidentified mammal	1	(pig or dog)
CT10	23/12/21	6:54:02	IMG_0103.AVI	Bird	Unidentified bird	1	
CT10	23/12/21	7:42:56	IMG_0104.AVI	Bird	Amaurornis phoenicurus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT10	23/12/21	7:58:18	IMG_0105.AVI	Bird	Amaurornis phoenicurus	1	
CT10	23/12/21	9:43:58	IMG_0082.AVI	Mammal	Canis lupus familiaris	2	
CT10	23/12/21	9:45:00	IMG_0083.AVI	Mammal	Canis lupus familiaris	1	
CT10	23/12/21	17:54:58	IMG_0095.AVI	Mammal	Canis lupus familiaris	1	
CT10	23/12/21	18:14:44	IMG_0096.AVI	Mammal	Canis lupus familiaris	1	
CT10	23/12/21	18:15:06	IMG_0097.AVI	Mammal	Canis lupus familiaris	1	
CT10	23/12/21	18:15:34	IMG_0098.AVI	Mammal	Canis lupus familiaris	1	
CT10	23/12/21	18:18:16	IMG_0099.AVI	Mammal	Canis lupus familiaris	2	
CT10	23/12/21	18:18:38	IMG_0100.AVI	Mammal	Canis lupus familiaris	2	
CT10	23/12/21	20:34:00	IMG_0102.AVI	Mammal	Unidentified mammal	2	(pig or dog)
CT10	24/12/21	7:50:32	IMG_0109.AVI	Bird	Amaurornis phoenicurus	2	
CT10	24/12/21	8:22:04	IMG_0106.AVI	Bird	Amaurornis phoenicurus	1	
CT10	24/12/21	8:23:26	IMG_0107.AVI	Bird	Amaurornis phoenicurus	1	
CT10	24/12/21	18:39:36	IMG_0108.AVI	Bird	Amaurornis phoenicurus	2	
CT10	25/12/21	8:55:04	IMG_0110.AVI	Bird	Gallus gallus	1	
CT10	25/12/21	9:08:16	IMG_0111.AVI	Bird	Amaurornis phoenicurus	2	
CT10	25/12/21	9:29:54	IMG_0112.AVI	Bird	Amaurornis phoenicurus	1	
CT10	25/12/21	11:07:44	IMG_0113.AVI	Bird	Amaurornis phoenicurus	2	
CT10	25/12/21	13:03:20	IMG_0114.AVI	Bird	Amaurornis phoenicurus	2	
CT10	25/12/21	14:24:36	IMG_0115.AVI	Mammal	Sus scrofa	2	
CT10	25/12/21	17:33:20	IMG_0116.AVI	Bird	Amaurornis phoenicurus	2	
CT10	25/12/21	20:01:08	IMG_0117.AVI	Mammal	Sus scrofa	2	
CT10	25/12/21	20:01:28	IMG_0118.AVI	Mammal	Sus scrofa	2	
CT10	26/12/21	6:52:52	IMG_0123.AVI	Bird	Amaurornis phoenicurus	1	
CT10	26/12/21	7:00:26	IMG_0124.AVI	Bird	Amaurornis phoenicurus	1	
CT10	26/12/21	7:22:48	IMG_0125.AVI	Bird	Amaurornis phoenicurus	2	
CT10	26/12/21	9:49:26	IMG_0119.AVI	Bird	Amaurornis phoenicurus	1	
CT10	26/12/21	10:27:28	IMG_0120.AVI	Bird	Amaurornis phoenicurus	1	
CT10	26/12/21	10:53:14	IMG_0121.AVI	Bird	Gallus gallus	1	
CT10	26/12/21	18:04:40	IMG_0122.AVI	Bird	Amaurornis phoenicurus	1	
CT10	27/12/21	8:49:14	IMG_0126.AVI	Mammal	Canis lupus familiaris	2	
CT10	27/12/21	9:49:12	IMG_0127.AVI	Bird	Amaurornis phoenicurus	2	
CT10	27/12/21	13:00:26	IMG_0128.AVI	Bird	Gallus gallus	1	
CT10	28/12/21	9:14:46	IMG_0138.AVI	Bird	Gallus gallus	2	
CT10	28/12/21	11:29:36	IMG_0139.AVI	Bird	Amaurornis phoenicurus	2	
CT10	28/12/21	14:44:04	IMG_0140.AVI	Bird	Amaurornis phoenicurus	2	
CT10	29/12/21	7:29:28	IMG_0144.AVI	Bird	Gallus gallus	1	
CT10	29/12/21	7:30:02	IMG_0145.AVI	Bird	Gallus gallus	1	
CT10	29/12/21	10:27:02	IMG_0143.AVI	Bird	Amaurornis phoenicurus	2	
CT10	30/12/21	12:07:46	IMG_0147.AVI	Bird	Amaurornis phoenicurus	2	
CT10	30/12/21	13:23:10	IMG_0148.AVI	Reptile	Varanus salvator	2	
CT10	30/12/21	17:58:34	IMG_0149.AVI	Mammal	Canis lupus familiaris	1	
CT10	31/12/21	10:00:48	IMG_0150.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT10	31/12/21	10:01:24	IMG_0151.AVI	Mammal	Sus scrofa	1	
CT10	31/12/21	10:02:14	IMG_0152.AVI	Mammal	Sus scrofa	1	
CT10	31/12/21	10:02:34	IMG_0153.AVI	Mammal	Sus scrofa	2	
CT10	31/12/21	10:03:38	IMG_0154.AVI	Mammal	Sus scrofa	2	
CT10	31/12/21	10:04:48	IMG_0156.AVI	Mammal	Sus scrofa	1	
CT10	31/12/21	10:05:08	IMG_0157.AVI	Mammal	Sus scrofa	2	
CT10	31/12/21	10:05:28	IMG_0158.AVI	Mammal	Sus scrofa	2	
CT10	31/12/21	10:05:48	IMG_0159.AVI	Mammal	Sus scrofa	2	
CT10	31/12/21	10:08:12	IMG_0160.AVI	Mammal	Sus scrofa	2	
CT10	31/12/21	10:08:32	IMG_0161.AVI	Mammal	Sus scrofa	1	
CT10	31/12/21	10:08:52	IMG_0162.AVI	Mammal	Sus scrofa	1	
CT10	31/12/21	10:09:14	IMG_0163.AVI	Mammal	Sus scrofa	1	
CT10	31/12/21	10:09:40	IMG_0164.AVI	Mammal	Sus scrofa	1	
CT10	31/12/21	10:10:00	IMG_0165.AVI	Mammal	Sus scrofa	1	
CT10	31/12/21	10:10:20	IMG_0166.AVI	Mammal	Sus scrofa	1	
CT10	31/12/21	10:10:50	IMG_0167.AVI	Mammal	Sus scrofa	1	
CT10	31/12/21	10:11:12	IMG_0168.AVI	Mammal	Sus scrofa	1	
CT10	31/12/21	10:11:38	IMG_0169.AVI	Mammal	Sus scrofa	1	
CT10	31/12/21	11:19:20	IMG_0170.AVI	Mammal	Sus scrofa	2	
CT10	31/12/21	11:19:44	IMG_0171.AVI	Mammal	Sus scrofa	2	
CT10	31/12/21	14:39:16	IMG_0172.AVI	Bird	Amaurornis phoenicurus	2	
CT10	31/12/21	15:38:08	IMG_0173.AVI	Mammal	Canis lupus familiaris	1	
CT10	31/12/21	15:38:42	IMG_0174.AVI	Mammal	Canis lupus familiaris	2	
CT10	31/12/21	17:15:38	IMG_0175.AVI	Mammal	Canis lupus familiaris	1	
CT10	31/12/21	17:16:20	IMG_0176.AVI	Mammal	Canis lupus familiaris	1	
CT10	1/1/22	8:35:08	IMG_0178.AVI	Bird	Amaurornis phoenicurus	2	
CT10	1/1/22	9:24:58	IMG_0179.AVI	Bird	Amaurornis phoenicurus	2	
CT10	2/1/22	7:25:50	IMG_0189.AVI	Bird	Amaurornis phoenicurus	2	
CT10	2/1/22	13:27:34	IMG_0184.AVI	Mammal	Callosciurus notatus	2	
CT10	2/1/22	17:07:32	IMG_0185.AVI	Mammal	Canis lupus familiaris	1	
CT10	2/1/22	17:17:24	IMG_0186.AVI	Mammal	Canis lupus familiaris	2	
CT10	2/1/22	17:18:44	IMG_0187.AVI	Mammal	Canis lupus familiaris	1	
CT10	3/1/22	8:21:22	IMG_0190.AVI	Mammal	Canis lupus familiaris	1	
CT10	3/1/22	8:21:56	IMG_0191.AVI	Mammal	Canis lupus familiaris	2	
CT10	3/1/22	8:26:10	IMG_0192 gallus-.AV	Bird	Gallus gallus	1	
CT10	3/1/22	18:01:34	IMG_0194.AVI	Bird	Gallus gallus	2	
CT10	3/1/22	18:56:04	IMG_0195.AVI	Bird	Gallus gallus	2	
CT10	3/1/22	22:05:08	IMG_0196.AVI	Mammal	Unidentified mammal	1	(pig or dog)
CT10	4/1/22	17:47:30	IMG_0200.AVI	Mammal	Canis lupus familiaris	2	
CT10	4/1/22	17:49:00	IMG_0201.AVI	Mammal	Canis lupus familiaris	1	
CT10	5/1/22	8:33:28	IMG_0205.AVI	Mammal	Canis lupus familiaris	1	
CT10	5/1/22	8:33:52	IMG_0206.AVI	Mammal	Canis lupus familiaris	1	
CT10	5/1/22	8:34:34	IMG_0207.AVI	Mammal	Canis lupus familiaris	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT10	5/1/22	8:35:46	IMG_0208.AVI	Mammal	Canis lupus familiaris	1	
CT10	5/1/22	8:36:14	IMG_0209.AVI	Mammal	Canis lupus familiaris	2	
CT10	5/1/22	8:37:54	IMG_0210.AVI	Mammal	Canis lupus familiaris	1	
CT10	5/1/22	8:38:14	IMG_0211.AVI	Mammal	Canis lupus familiaris	1	
CT10	5/1/22	9:19:14	IMG_0213.AVI	Mammal	Canis lupus familiaris	1	
CT10	5/1/22	12:19:52	IMG_0215.AVI	Reptile	Varanus salvator	1	
CT10	5/1/22	13:16:12	IMG_0216.AVI	Reptile	Varanus salvator	1	
CT10	6/1/22	8:17:34	IMG_0217.AVI	Bird	Amaurornis phoenicurus	1	
CT10	6/1/22	13:53:00	IMG_0218.AVI	Bird	Amaurornis phoenicurus	1	
CT10	6/1/22	16:23:22	IMG_0219.AVI	Mammal	Sus scrofa	1	
CT10	6/1/22	17:15:14	IMG_0220.AVI	Mammal	Sus scrofa	1	
CT10	6/1/22	17:15:48	IMG_0221.AVI	Mammal	Sus scrofa	1	
CT10	7/1/22	10:00:56	IMG_0223.AVI	Mammal	Canis lupus familiaris	3	
CT10	8/1/22	9:12:56	IMG_0224.AVI	Mammal	Canis lupus familiaris	2	
CT10	8/1/22	9:21:06	IMG_0225.AVI	Mammal	Canis lupus familiaris	1	
CT10	8/1/22	9:24:28	IMG_0226.AVI	Mammal	Canis lupus familiaris	3	
CT10	8/1/22	9:25:54	IMG_0227.AVI	Mammal	Canis lupus familiaris	1	
CT10	8/1/22	9:26:58	IMG_0228.AVI	Mammal	Canis lupus familiaris	1	
CT10	9/1/22	16:48:02	IMG_0231.AVI	Mammal	Sus scrofa	1	
CT10	9/1/22	21:58:02	IMG_0232.AVI	N.A	Unidentified sp.	1	
CT10	10/1/22	7:12:08	IMG_0003.AVI	Bird	Amaurornis phoenicurus	2	
CT10	11/1/22	11:31:02	IMG_0004.AVI	Bird	Spilopelia chinensis	1	
CT10	12/1/22	17:43:32	IMG_0008.AVI	Mammal	Canis lupus familiaris	1	
CT10	12/1/22	17:43:52	IMG_0009.AVI	Mammal	Canis lupus familiaris	2	
CT10	12/1/22	18:48:54	IMG_0010.AVI	Mammal	Canis lupus familiaris	2	
CT10	12/1/22	18:49:38	IMG_0011.AVI	Mammal	Canis lupus familiaris	1	
CT10	12/1/22	18:50:08	IMG_0012.AVI	Mammal	Canis lupus familiaris	1	
CT10	13/1/22	18:50:24	IMG_0013.AVI	Mammal	Canis lupus familiaris	2	
CT10	14/1/22	7:29:30	IMG_0016.AVI	Bird	Amaurornis phoenicurus	1	
CT10	14/1/22	14:16:42	IMG_0014.AVI	Bird	Gallus gallus	2	
CT10	14/1/22	14:17:02	IMG_0015.AVI	Bird	Gallus gallus	1	
CT10	15/1/22	7:53:34	IMG_0019.AVI	Bird	Amaurornis phoenicurus	1	
CT10	15/1/22	11:22:24	IMG_0017.AVI	Bird	Gallus gallus	1	
CT10	16/1/22	16:15:10	IMG_0020.AVI	Mammal	Canis lupus familiaris	1	
CT10	17/1/22	16:46:34	IMG_0021.AVI	Mammal	Canis lupus familiaris	2	
CT10	18/1/22	7:00:26	IMG_0024.AVI	Bird	Amaurornis phoenicurus	1	
CT10	18/1/22	15:35:26	IMG_0023.AVI	Bird	Gallus gallus	1	
CT10	19/1/22	10:07:34	IMG_0025.AVI	Bird	Gallus gallus	1	
CT10	19/1/22	10:48:40	IMG_0026.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/1/22	17:48:16	IMG_0027.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/1/22	18:22:56	IMG_0028.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/1/22	18:23:18	IMG_0029.AVI	Mammal	Canis lupus familiaris	2	
CT10	20/1/22	7:29:28	IMG_0035.AVI	Bird	Amaurornis phoenicurus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT10	20/1/22	7:54:16	IMG_0036.AVI	Bird	Amaurornis phoenicurus	1	
CT10	20/1/22	12:28:08	IMG_0031.AVI	Reptile	Varanus salvator	1	
CT10	20/1/22	14:56:34	IMG_0032.AVI	Bird	Amaurornis phoenicurus	1	
CT10	20/1/22	17:18:26	IMG_0033.AVI	Bird	Amaurornis phoenicurus	1	
CT10	20/1/22	19:06:12	IMG_0034.AVI	Bird	Amaurornis phoenicurus	1	
CT10	21/1/22	6:49:08	IMG_0049.AVI	Mammal	Unidentified Muridae	1	
CT10	21/1/22	9:01:40	IMG_0037.AVI	Bird	Acridotheres javanicus	2	
CT10	21/1/22	9:15:00	IMG_0038.AVI	Bird	Gallus gallus	1	
CT10	21/1/22	9:15:32	IMG_0039.AVI	Bird	Gallus gallus	1	
CT10	21/1/22	9:31:44	IMG_0040.AVI	Bird	Amaurornis phoenicurus	1	
CT10	21/1/22	10:52:50	IMG_0041.AVI	Bird	Gallus gallus	1	
CT10	21/1/22	16:12:50	IMG_0042.AVI	Mammal	Canis lupus familiaris	2	
CT10	21/1/22	16:13:34	IMG_0043.AVI	Mammal	Canis lupus familiaris	2	
CT10	21/1/22	16:15:12	IMG_0044.AVI	Mammal	Canis lupus familiaris	2	
CT10	21/1/22	17:03:08	IMG_0045.AVI	Mammal	Canis lupus familiaris	2	
CT10	21/1/22	17:26:28	IMG_0046.AVI	Bird	Amaurornis phoenicurus	1	
CT10	21/1/22	17:32:04	IMG_0047.AVI	Mammal	Canis lupus familiaris	2	
CT10	22/1/22	6:13:22	IMG_0058.AVI	Mammal	Sus scrofa	1	
CT10	22/1/22	7:11:56	IMG_0059.AVI	Bird	Amaurornis phoenicurus	1	
CT10	22/1/22	7:36:10	IMG_0060.AVI	Mammal	Canis lupus familiaris	1	
CT10	22/1/22	7:47:42	IMG_0061.AVI	Bird	Amaurornis phoenicurus	1	
CT10	22/1/22	9:55:48	IMG_0050.AVI	Bird	Amaurornis phoenicurus	1	
CT10	22/1/22	10:04:06	IMG_0051.AVI	Bird	Amaurornis phoenicurus	1	
CT10	22/1/22	12:46:24	IMG_0052.AVI	Bird	Pycnonotus zeylanicus	1	
CT10	22/1/22	12:46:50	IMG_0053.AVI	Bird	Pycnonotus zeylanicus	3	
CT10	22/1/22	13:18:20	IMG_0054.AVI	Reptile	Varanus sp.	1	
CT10	22/1/22	17:58:50	IMG_0055.AVI	Mammal	Canis lupus familiaris	1	
CT10	22/1/22	19:15:26	IMG_0056.AVI	Mammal	Canis lupus familiaris	2	
CT10	23/1/22	7:46:12	IMG_0091.AVI	Bird	Amaurornis phoenicurus	1	
CT10	23/1/22	8:10:20	IMG_0062.AVI	Bird	Amaurornis phoenicurus	1	
CT10	23/1/22	13:27:46	IMG_0082.AVI	Reptile	Varanus salvator	1	
CT10	23/1/22	16:35:14	IMG_0083.AVI	Mammal	Canis lupus familiaris	1	
CT10	23/1/22	16:35:44	IMG_0084.AVI	Mammal	Canis lupus familiaris	1	
CT10	23/1/22	16:36:12	IMG_0085.AVI	Mammal	Canis lupus familiaris	1	
CT10	23/1/22	16:36:56	IMG_0086.AVI	Mammal	Canis lupus familiaris	1	
CT10	23/1/22	16:37:18	IMG_0087.AVI	Mammal	Canis lupus familiaris	1	
CT10	23/1/22	16:37:44	IMG_0088.AVI	Mammal	Canis lupus familiaris	1	
CT10	23/1/22	16:38:10	IMG_0089.AVI	Mammal	Canis lupus familiaris	2	
CT10	23/1/22	16:39:44	IMG_0090.AVI	Mammal	Canis lupus familiaris	1	
CT10	24/1/22	7:39:02	IMG_0107.AVI	Bird	Amaurornis phoenicurus	1	
CT10	24/1/22	9:31:22	IMG_0092.AVI	Mammal	Canis lupus familiaris	2	
CT10	24/1/22	9:31:42	IMG_0093.AVI	Mammal	Canis lupus familiaris	1	
CT10	24/1/22	9:32:26	IMG_0094.AVI	Mammal	Canis lupus familiaris	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT10	24/1/22	9:32:46	IMG_0095.AVI	Mammal	Canis lupus familiaris	1	
CT10	24/1/22	9:33:36	IMG_0096.AVI	Mammal	Canis lupus familiaris	2	
CT10	24/1/22	9:33:56	IMG_0097.AVI	Mammal	Canis lupus familiaris	1	
CT10	24/1/22	9:34:58	IMG_0098.AVI	Mammal	Canis lupus familiaris	1	
CT10	24/1/22	11:50:12	IMG_0099.AVI	Mammal	Canis lupus familiaris	1	
CT10	24/1/22	11:50:34	IMG_0100.AVI	Mammal	Canis lupus familiaris	1	
CT10	24/1/22	11:52:04	IMG_0101.AVI	Mammal	Canis lupus familiaris	1	
CT10	24/1/22	11:52:24	IMG_0102.AVI	Mammal	Canis lupus familiaris	2	
CT10	24/1/22	13:02:30	IMG_0103.AVI	Bird	Amaurornis phoenicurus	1	
CT10	24/1/22	16:33:06	IMG_0104.AVI	Bird	Gallus gallus	1	
CT10	24/1/22	16:40:50	IMG_0105.AVI	Bird	Gallus gallus	1	
CT10	24/1/22	17:36:24	IMG_0106.AVI	Mammal	Canis lupus familiaris	2	
CT10	25/1/22	7:11:56	IMG_0121.AVI	Bird	Amaurornis phoenicurus	1	
CT10	25/1/22	7:47:12	IMG_0122.AVI	Bird	Amaurornis phoenicurus	2	
CT10	25/1/22	8:08:16	IMG_0111.AVI	Bird	Amaurornis phoenicurus	1	
CT10	25/1/22	8:15:28	IMG_0112.AVI	Bird	Amaurornis phoenicurus	1	
CT10	25/1/22	8:44:36	IMG_0113.AVI	Mammal	Canis lupus familiaris	2	
CT10	25/1/22	8:44:56	IMG_0114.AVI	Mammal	Canis lupus familiaris	1	
CT10	25/1/22	8:45:24	IMG_0115.AVI	Mammal	Canis lupus familiaris	1	
CT10	25/1/22	10:11:38	IMG_0116.AVI	Bird	Amaurornis phoenicurus	1	
CT10	25/1/22	17:04:44	IMG_0117.AVI	Bird	Amaurornis phoenicurus	1	
CT10	25/1/22	18:03:20	IMG_0118.AVI	Mammal	Canis lupus familiaris	2	
CT10	25/1/22	18:03:40	IMG_0119.AVI	Mammal	Canis lupus familiaris	2	
CT10	25/1/22	18:44:18	IMG_0120.AVI	Mammal	Canis lupus familiaris	2	
CT10	26/1/22	8:42:50	IMG_0123.AVI	Bird	Amaurornis phoenicurus	1	
CT10	26/1/22	8:53:38	IMG_0124.AVI	Bird	Gallus gallus	1	
CT10	26/1/22	8:54:14	IMG_0125.AVI	Bird	Gallus gallus	1	
CT10	26/1/22	9:31:34	IMG_0126.AVI	Bird	Amaurornis phoenicurus	1	
CT10	26/1/22	12:50:22	IMG_0127.AVI	Mammal	Canis lupus familiaris	2	
CT10	26/1/22	12:51:08	IMG_0128.AVI	Mammal	Canis lupus familiaris	1	
CT10	26/1/22	12:51:28	IMG_0129.AVI	Mammal	Canis lupus familiaris	1	
CT10	26/1/22	13:33:54	IMG_0130.AVI	Bird	Gallus gallus	1	
CT10	26/1/22	13:36:24	IMG_0131.AVI	Bird	Gallus gallus	1	
CT10	27/1/22	8:56:54	IMG_0135.AVI	Bird	Amaurornis phoenicurus	1	
CT10	28/1/22	16:20:38	IMG_0136.AVI	Bird	Amaurornis phoenicurus	1	
CT10	28/1/22	16:48:44	IMG_0138.AVI	Bird	Garrulax leucolophus	1	
CT10	28/1/22	16:48:44	IMG_0138.AVI	Bird	Acridotheres javanicus	1	
CT10	28/1/22	18:12:54	IMG_0139.AVI	Bird	Amaurornis phoenicurus	1	
CT10	29/1/22	7:22:58	IMG_0142.AVI	Bird	Amaurornis phoenicurus	1	
CT10	29/1/22	14:00:32	IMG_0140.AVI	Mammal	Canis lupus familiaris	1	
CT10	29/1/22	14:07:40	IMG_0141.AVI	Mammal	Canis lupus familiaris	1	
CT10	30/1/22	10:26:38	IMG_0143.AVI	Bird	Amaurornis phoenicurus	1	
CT10	1/2/22	7:31:40	IMG_0151.AVI	Bird	Amaurornis phoenicurus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT10	1/2/22	7:42:36	IMG_0152.AVI	Mammal	Canis lupus familiaris	2	
CT10	2/2/22	8:40:36	IMG_0153.AVI	Bird	Amaurornis phoenicurus	1	
CT10	2/2/22	9:16:02	IMG_0154.AVI	Bird	Gallus gallus	1	
CT10	2/2/22	11:42:08	IMG_0155.AVI	Bird	Gallus gallus	1	
CT10	2/2/22	11:58:40	IMG_0156.AVI	Reptile	Varanus salvator	1	
CT10	2/2/22	13:13:02	IMG_0157.AVI	Reptile	Varanus salvator	1	
CT10	2/2/22	13:56:48	IMG_0158.AVI	Reptile	Varanus sp.	1	
CT10	2/2/22	17:54:04	IMG_0159.AVI	Mammal	Canis lupus familiaris	2	
CT10	2/2/22	18:19:58	IMG_0160.AVI	Bird	Amaurornis phoenicurus	1	
CT10	3/2/22	15:46:14	IMG_0161.AVI	Mammal	Sus scrofa	1	
CT10	3/2/22	18:21:38	IMG_0162.AVI	Mammal	Canis lupus familiaris	2	
CT10	3/2/22	18:22:08	IMG_0163.AVI	Mammal	Canis lupus familiaris	1	
CT10	3/2/22	21:12:50	IMG_0164.AVI	N.A	Unidentified sp.	1	
CT10	4/2/22	7:45:52	IMG_0175.AVI	Bird	Amaurornis phoenicurus	1	
CT10	4/2/22	8:01:46	IMG_0166.AVI	Bird	Amaurornis phoenicurus	1	
CT10	4/2/22	10:59:06	IMG_0167.AVI	Bird	Gallus gallus	1	
CT10	4/2/22	14:27:40	IMG_0168.AVI	Bird	Amaurornis phoenicurus	1	
CT10	4/2/22	15:55:44	IMG_0169.AVI	Reptile	Varanus salvator	1	
CT10	4/2/22	16:31:22	IMG_0170.AVI	Mammal	Canis lupus familiaris	2	
CT10	4/2/22	16:32:24	IMG_0171.AVI	Mammal	Canis lupus familiaris	2	
CT10	4/2/22	17:09:32	IMG_0172.AVI	Mammal	Canis lupus familiaris	2	
CT10	4/2/22	17:09:54	IMG_0173.AVI	Mammal	Canis lupus familiaris	2	
CT10	4/2/22	17:35:50	IMG_0174.AVI	Mammal	Canis lupus familiaris	1	
CT10	5/2/22	10:48:10	IMG_0176.AVI	Bird	Gallus gallus	1	
CT10	5/2/22	13:01:12	IMG_0177.AVI	Reptile	Varanus salvator	1	
CT10	5/2/22	13:19:32	IMG_0178.AVI	Reptile	Varanus salvator	1	
CT10	6/2/22	9:53:40	IMG_0179.AVI	Bird	Amaurornis phoenicurus	1	
CT10	6/2/22	10:09:56	IMG_0180.AVI	Bird	Amaurornis phoenicurus	1	
CT10	6/2/22	10:23:02	IMG_0181.AVI	Bird	Amaurornis phoenicurus	1	
CT10	6/2/22	19:02:42	IMG_0182.AVI	Mammal	Canis lupus familiaris	1	
CT10	6/2/22	19:03:04	IMG_0183.AVI	Mammal	Canis lupus familiaris	1	
CT10	6/2/22	19:10:26	IMG_0184.AVI	Mammal	Canis lupus familiaris	1	
CT10	6/2/22	19:19:48	IMG_0185.AVI	Mammal	Canis lupus familiaris	1	
CT10	6/2/22	19:20:20	IMG_0186.AVI	Mammal	Canis lupus familiaris	1	
CT10	6/2/22	19:20:46	IMG_0187.AVI	Mammal	Canis lupus familiaris	1	
CT10	6/2/22	19:21:08	IMG_0188.AVI	Mammal	Canis lupus familiaris	1	
CT10	6/2/22	19:23:02	IMG_0189.AVI	Mammal	Canis lupus familiaris	1	
CT10	7/2/22	9:34:48	IMG_0190.AVI	Bird	Gallus gallus	1	
CT10	7/2/22	9:35:12	IMG_0191.AVI	Bird	Gallus gallus	1	
CT10	19/3/22	0:55:22	IMG_0014.AVI	Bird	Picus vittatus	1	
CT10	19/3/22	0:55:23	IMG_0015.AVI	Bird	Picus vittatus	1	
CT10	19/3/22	0:55:29	IMG_0013.AVI	Reptile	Varanus sp.	1	
CT10	19/3/22	0:55:30	IMG_0017.AVI	Bird	Acridotheres javanicus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT10	19/3/22	0:55:30	IMG_0019.AVI	N.A	Unidentified sp.	1	
CT10	19/3/22	0:55:31	IMG_0016.AVI	Bird	Gallus gallus	1	
CT10	19/3/22	0:55:32	IMG_0020.AVI	Mammal	Sus scrofa	1	
CT10	19/3/22	1:05:42	IMG_0065.AVI	Reptile	Varanus salvator	2	
CT10	19/3/22	1:05:43	IMG_0215.AVI	Reptile	Varanus salvator	2	
CT10	19/3/22	1:05:44	IMG_0103.AVI	Mammal	Unidentified mammal	2	(pig or dog)
CT10	19/3/22	1:05:44	IMG_0148.AVI	Reptile	Varanus salvator	2	
CT10	19/3/22	1:05:45	IMG_0102.AVI	Mammal	Unidentified mammal	2	(pig or dog)
CT10	19/3/22	1:05:46	IMG_0076.AVI	Mammal	Canis lupus familiaris	2	
CT10	19/3/22	1:05:47	IMG_0003.AVI	Mammal	Canis lupus familiaris	2	
CT10	19/3/22	1:05:48	IMG_0004.AVI	Mammal	Canis lupus familiaris	2	
CT10	19/3/22	1:05:49	IMG_0186.AVI	Mammal	Canis lupus familiaris	2	
CT10	19/3/22	1:05:50	IMG_0191.AVI	Mammal	Canis lupus familiaris	2	
CT10	19/3/22	1:05:51	IMG_0082.AVI	Mammal	Canis lupus familiaris	2	
CT10	19/3/22	1:05:52	IMG_0112.AVI	Bird	Amaurornis phoenicurus	2	
CT10	19/3/22	1:05:52	IMG_0126.AVI	Mammal	Canis lupus familiaris	2	
CT10	19/3/22	1:05:53	IMG_0124.AVI	Bird	Amaurornis phoenicurus	2	
CT10	19/3/22	1:05:53	IMG_0223.AVI	Mammal	Canis lupus familiaris	3	
CT10	19/3/22	1:05:54	IMG_0138.AVI	Bird	Gallus gallus	1	
CT10	19/3/22	1:05:54	IMG_0226.AVI	Mammal	Canis lupus familiaris	3	
CT10	19/3/22	1:05:55	IMG_0029.AVI	Mammal	Sus scrofa	1	
CT10	19/3/22	1:05:56	IMG_0168.AVI	Mammal	Sus scrofa	1	
CT10	19/3/22	1:05:57	IMG_0026.AVI	Mammal	Sus scrofa	1	
CT10	19/3/22	1:05:58	IMG_0028.AVI	Mammal	Sus scrofa	1	
CT10	19/3/22	1:05:59	IMG_0022.AVI	Mammal	Sus scrofa	1	
CT10	19/3/22	1:06:00	IMG_0023.AVI	Mammal	Sus scrofa	4	
CT10	19/3/22	1:06:01	IMG_0024.AVI	Mammal	Sus scrofa	3	
CT10	19/3/22	1:06:02	IMG_0159.AVI	Mammal	Sus scrofa	2	
CT10	19/3/22	1:06:03	IMG_0158.AVI	Mammal	Sus scrofa	2	
CT10	19/3/22	1:06:04	IMG_0170.AVI	Mammal	Sus scrofa	1	
CT10	19/3/22	1:06:05	IMG_0150.AVI	Mammal	Sus scrofa	1	
CT10	19/3/22	1:06:06	IMG_0056.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT10	19/3/22	1:06:06	IMG_0151.AVI	Mammal	Sus scrofa	1	
CT10	19/3/22	1:06:22	IMG_0061.AVI	Bird	Centropus sinensis	1	
CT10	19/3/22	1:06:23	IMG_0059.AVI	Bird	Acridotheres javanicus	1	
CT10	19/3/22	1:06:23	IMG_0103.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:06:24	IMG_0070.AVI	Bird	Unidentified bird	1	
CT10	19/3/22	1:06:24	IMG_0192 gallus-.AV	Bird	Gallus gallus	1	
CT10	19/3/22	1:06:25	IMG_0067.AVI	Mammal	Callosciurus notatus	1	
CT10	19/3/22	1:06:25	IMG_0071.AVI	N.A	Unidentified sp.	1	
CT10	19/3/22	1:06:26	IMG_0074.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:06:26	IMG_0232.AVI	N.A	Unidentified sp.	1	
CT10	19/3/22	1:06:27	IMG_0049.AVI	Mammal	Canis lupus familiaris	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT10	19/3/22	1:06:28	IMG_0073.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:06:29	IMG_0176.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:06:30	IMG_0149.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:06:31	IMG_0207.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:06:32	IMG_0005.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:06:33	IMG_0006.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:06:34	IMG_0007.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:06:35	IMG_0205.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:06:36	IMG_0187.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:06:37	IMG_0185.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:06:38	IMG_0096.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:06:39	IMG_0083.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:06:40	IMG_0052.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:06:41	IMG_0048.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:06:41	IMG_0050.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:06:42	IMG_0060.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:06:43	IMG_0075.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:06:44	IMG_0072.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:06:45	IMG_0107.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:06:46	IMG_0104.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:06:47	IMG_0058.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:06:48	IMG_0189.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:06:49	IMG_0038.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:06:50	IMG_0037.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:06:51	IMG_0140.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:06:52	IMG_0033.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:06:53	IMG_0032.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:06:54	IMG_0041.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:06:55	IMG_0109.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:06:56	IMG_0040.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:06:57	IMG_0042.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:06:58	IMG_0122.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:06:59	IMG_0043.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:07:00	IMG_0046.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:07:01	IMG_0044.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:07:02	IMG_0045.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:07:02	IMG_0128.AVI	Bird	Gallus gallus	1	
CT10	19/3/22	1:07:03	IMG_0062.AVI	Bird	Gallus gallus	1	
CT10	19/3/22	1:07:04	IMG_0036.AVI	Bird	Gallus gallus	1	
CT10	19/3/22	1:07:05	IMG_0035.AVI	Bird	Gallus gallus	1	
CT10	19/3/22	1:07:06	IMG_0034.AVI	Bird	Gallus gallus	1	
CT10	19/3/22	1:07:07	IMG_0115.AVI	Mammal	Sus scrofa	1	
CT10	19/3/22	1:07:07	IMG_0121.AVI	Bird	Gallus gallus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT10	19/3/22	1:07:08	IMG_0117.AVI	Mammal	Sus scrofa	1	
CT10	19/3/22	1:07:09	IMG_0156.AVI	Mammal	Sus scrofa	1	
CT10	19/3/22	1:07:10	IMG_0008.AVI	Mammal	Sus scrofa	1	
CT10	19/3/22	1:07:11	IMG_0219.AVI	Mammal	Sus scrofa	1	
CT10	19/3/22	1:07:12	IMG_0118.AVI	Mammal	Sus scrofa	1	
CT10	19/3/22	1:07:13	IMG_0078.AVI	Mammal	Rattus sp.	1	
CT10	19/3/22	1:13:34	IMG_0177.AVI	Reptile	Varanus salvator	1	
CT10	19/3/22	1:13:35	IMG_0156.AVI	Reptile	Varanus salvator	1	
CT10	19/3/22	1:13:36	IMG_0031.AVI	Reptile	Varanus salvator	1	
CT10	19/3/22	1:13:37	IMG_0082.AVI	Reptile	Varanus salvator	1	
CT10	19/3/22	1:13:37	IMG_0102.AVI	Mammal	Canis lupus familiaris	2	
CT10	19/3/22	1:13:38	IMG_0089.AVI	Mammal	Canis lupus familiaris	2	
CT10	19/3/22	1:13:39	IMG_0113.AVI	Mammal	Canis lupus familiaris	2	
CT10	19/3/22	1:13:40	IMG_0029.AVI	Mammal	Canis lupus familiaris	2	
CT10	19/3/22	1:13:41	IMG_0159.AVI	Mammal	Canis lupus familiaris	2	
CT10	19/3/22	1:13:42	IMG_0010.AVI	Mammal	Canis lupus familiaris	2	
CT10	19/3/22	1:13:43	IMG_0013.AVI	Mammal	Canis lupus familiaris	2	
CT10	19/3/22	1:13:44	IMG_0009.AVI	Mammal	Canis lupus familiaris	2	
CT10	19/3/22	1:13:45	IMG_0096.AVI	Mammal	Canis lupus familiaris	2	
CT10	19/3/22	1:13:46	IMG_0056.AVI	Mammal	Canis lupus familiaris	2	
CT10	19/3/22	1:13:47	IMG_0042.AVI	Mammal	Canis lupus familiaris	2	
CT10	19/3/22	1:13:48	IMG_0044.AVI	Mammal	Canis lupus familiaris	2	
CT10	19/3/22	1:13:49	IMG_0118.AVI	Mammal	Canis lupus familiaris	2	
CT10	19/3/22	1:13:50	IMG_0045.AVI	Mammal	Canis lupus familiaris	2	
CT10	19/3/22	1:13:51	IMG_0003.AVI	Bird	Amaurornis phoenicurus	2	
CT10	19/3/22	1:13:51	IMG_0138.AVI	Bird	Garrulax leucolophus	1	
CT10	19/3/22	1:13:52	IMG_0014.AVI	Bird	Gallus gallus	2	
CT10	19/3/22	1:13:52	IMG_0122.AVI	Bird	Amaurornis phoenicurus	2	
CT10	19/3/22	1:13:53	IMG_0052.AVI	Bird	Pycnonotus zeylanicus	1	
CT10	19/3/22	1:14:11	IMG_0138.AVI	Bird	Acridotheres javanicus	1	
CT10	19/3/22	1:14:11	IMG_0158.AVI	Reptile	Varanus sp.	1	
CT10	19/3/22	1:14:12	IMG_0004.AVI	Bird	Spilopelia chinensis	1	
CT10	19/3/22	1:14:12	IMG_0054.AVI	Reptile	Varanus sp.	1	
CT10	19/3/22	1:14:13	IMG_0060.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:14:13	IMG_0164.AVI	N.A	Unidentified sp.	1	
CT10	19/3/22	1:14:14	IMG_0100.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:14:15	IMG_0101.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:14:16	IMG_0088.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:14:17	IMG_0098.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:14:18	IMG_0163.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:14:19	IMG_0028.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:14:20	IMG_0011.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:14:21	IMG_0141.AVI	Mammal	Canis lupus familiaris	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT10	19/3/22	1:14:22	IMG_0140.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:14:23	IMG_0008.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:14:24	IMG_0184.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:14:25	IMG_0055.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:14:26	IMG_0083.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:14:27	IMG_0094.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:14:28	IMG_0084.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:14:29	IMG_0085.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:14:30	IMG_0061.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:14:30	IMG_0086.AVI	Mammal	Canis lupus familiaris	1	
CT10	19/3/22	1:14:31	IMG_0103.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:14:32	IMG_0062.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:14:33	IMG_0059.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:14:34	IMG_0111.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:14:35	IMG_0016.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:14:36	IMG_0160.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:14:37	IMG_0036.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:14:38	IMG_0142.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:14:39	IMG_0035.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:14:40	IMG_0034.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:14:41	IMG_0024.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:14:42	IMG_0019.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:14:43	IMG_0033.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:14:44	IMG_0026.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:14:45	IMG_0040.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:14:46	IMG_0123.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:14:47	IMG_0046.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:14:48	IMG_0050.AVI	Bird	Amaurornis phoenicurus	1	
CT10	19/3/22	1:14:49	IMG_0104.AVI	Bird	Gallus gallus	1	
CT10	19/3/22	1:14:50	IMG_0017.AVI	Bird	Gallus gallus	1	
CT10	19/3/22	1:14:51	IMG_0015.AVI	Bird	Gallus gallus	1	
CT10	19/3/22	1:14:52	IMG_0023.AVI	Bird	Gallus gallus	1	
CT10	19/3/22	1:14:53	IMG_0154.AVI	Bird	Gallus gallus	1	
CT10	19/3/22	1:14:54	IMG_0025.AVI	Bird	Gallus gallus	1	
CT10	19/3/22	1:14:55	IMG_0041.AVI	Bird	Gallus gallus	1	
CT10	19/3/22	1:14:56	IMG_0124.AVI	Bird	Gallus gallus	1	
CT10	19/3/22	1:14:57	IMG_0058.AVI	Mammal	Sus scrofa	1	
CT10	19/3/22	1:14:57	IMG_0131.AVI	Bird	Gallus gallus	1	
CT10	19/3/22	1:14:58	IMG_0049.AVI	Mammal	Unidentified Muridae	1	
CT10	19/3/22	1:14:58	IMG_0161.AVI	Mammal	Sus scrofa	1	
CT10	19/3/22	1:15:01	IMG_0037.AVI	Bird	Acridotheres javanicus	2	
CT10	19/3/22	1:15:01	IMG_0053.AVI	Bird	Pycnonotus zeylanicus	3	
CT11	10/1/21	14:03:18	IMG_0003.AVI	Mammal	Callosciurus notatus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT11	10/1/21	14:03:40	IMG_0004.AVI	Mammal	Callosciurus notatus	1	
CT11	10/1/21	14:11:06	IMG_0005.AVI	Mammal	Callosciurus notatus	1	
CT11	10/1/21	23:20:02	IMG_0006.AVI	N.A	Unidentified sp.	1	
CT11	11/1/21	13:23:18	IMG_0008.AVI	Mammal	Sus scrofa	1	
CT11	12/1/21	7:53:16	IMG_0010.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT11	12/1/21	7:53:16	IMG_0010.AVI	Bird	Garrulax leucolophus	2	
CT11	13/1/21	12:37:16	IMG_0011.AVI	Mammal	Callosciurus notatus	1	
CT11	13/1/21	18:59:08	IMG_0013.AVI	Mammal	Sus scrofa	1	
CT11	13/1/21	19:00:20	IMG_0014.AVI	Mammal	Sus scrofa	1	
CT11	13/1/21	19:00:50	IMG_0015.AVI	Mammal	Sus scrofa	1	
CT11	13/1/21	19:01:14	IMG_0016.AVI	Bird	Gallus gallus	1	
CT11	13/1/21	19:01:14	IMG_0016.AVI	Mammal	Sus scrofa	1	
CT11	13/1/21	19:05:02	IMG_0017.AVI	Mammal	Sus scrofa	1	
CT11	13/1/21	19:06:16	IMG_0018.AVI	Mammal	Sus scrofa	1	
CT11	13/1/21	19:06:40	IMG_0019.AVI	Mammal	Sus scrofa	1	
CT11	13/1/21	19:07:26	IMG_0020.AVI	Mammal	Sus scrofa	1	
CT11	13/1/21	19:08:02	IMG_0021.AVI	Mammal	Sus scrofa	1	
CT11	13/1/21	19:08:40	IMG_0022.AVI	Mammal	Sus scrofa	1	
CT11	16/1/21	23:40:48	IMG_0023.AVI	Mammal	Sus scrofa	1	
CT11	17/1/21	7:29:36	IMG_0034.AVI	Mammal	Callosciurus notatus	1	
CT11	17/1/21	13:39:34	IMG_0024.AVI	Mammal	Sus scrofa	1	
CT11	17/1/21	13:39:56	IMG_0025.AVI	Mammal	Sus scrofa	1	
CT11	17/1/21	13:40:18	IMG_0026.AVI	Mammal	Sus scrofa	1	
CT11	17/1/21	13:52:26	IMG_0027.AVI	Mammal	Sus scrofa	1	
CT11	17/1/21	13:53:06	IMG_0028.AVI	Mammal	Sus scrofa	1	
CT11	17/1/21	13:53:26	IMG_0029.AVI	Mammal	Sus scrofa	1	
CT11	17/1/21	13:53:54	IMG_0030.AVI	Mammal	Sus scrofa	1	
CT11	17/1/21	14:03:08	IMG_0031.AVI	Mammal	Sus scrofa	2	
CT11	17/1/21	14:04:04	IMG_0032.AVI	Mammal	Sus scrofa	1	
CT11	17/1/21	14:04:26	IMG_0033.AVI	Mammal	Sus scrofa	1	
CT11	18/1/21	0:13:46	IMG_0035.AVI	Mammal	Sus scrofa	1	
CT11	18/1/21	0:14:08	IMG_0036.AVI	Mammal	Sus scrofa	1	
CT11	18/1/21	0:14:30	IMG_0037.AVI	Mammal	Sus scrofa	1	
CT11	18/1/21	0:14:52	IMG_0038.AVI	Mammal	Sus scrofa	2	
CT11	18/1/21	0:15:12	IMG_0039.AVI	Mammal	Sus scrofa	2	
CT11	18/1/21	0:15:40	IMG_0040.AVI	Mammal	Sus scrofa	3	
CT11	18/1/21	0:16:00	IMG_0041.AVI	Mammal	Sus scrofa	3	
CT11	18/1/21	0:16:22	IMG_0042.AVI	Mammal	Sus scrofa	3	
CT11	18/1/21	0:16:42	IMG_0043.AVI	Mammal	Sus scrofa	3	
CT11	18/1/21	0:17:06	IMG_0044.AVI	Mammal	Sus scrofa	3	
CT11	18/1/21	0:17:30	IMG_0045.AVI	Mammal	Sus scrofa	2	
CT11	18/1/21	0:17:50	IMG_0046.AVI	Mammal	Sus scrofa	3	
CT11	18/1/21	0:18:12	IMG_0047.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT11	18/1/21	0:18:40	IMG_0048.AVI	Mammal	Sus scrofa	2	
CT11	18/1/21	0:19:04	IMG_0049.AVI	Mammal	Sus scrofa	1	
CT11	18/1/21	0:19:26	IMG_0050.AVI	Mammal	Sus scrofa	3	
CT11	18/1/21	0:19:48	IMG_0051.AVI	Mammal	Canis lupus familiaris	2	
CT11	18/1/21	0:20:24	IMG_0052.AVI	Mammal	Sus scrofa	1	
CT11	18/1/21	0:20:46	IMG_0053.AVI	Mammal	Sus scrofa	2	
CT11	18/1/21	0:21:06	IMG_0054.AVI	Mammal	Sus scrofa	2	
CT11	18/1/21	0:21:28	IMG_0055.AVI	Mammal	Sus scrofa	2	
CT11	18/1/21	0:21:50	IMG_0056.AVI	Mammal	Sus scrofa	2	
CT11	20/1/21	19:41:12	IMG_0057.AVI	Mammal	Sus scrofa	1	
CT11	20/1/21	19:41:36	IMG_0058.AVI	Mammal	Sus scrofa	1	
CT11	20/1/21	19:41:58	IMG_0059.AVI	Mammal	Sus scrofa	1	
CT11	21/1/21	3:52:16	IMG_0062.AVI	Mammal	Sus scrofa	1	
CT11	21/1/21	19:23:28	IMG_0060.AVI	Mammal	Sus scrofa	1	
CT11	21/1/21	19:23:56	IMG_0061.AVI	Mammal	Sus scrofa	1	
CT11	22/1/21	1:07:44	IMG_0065.AVI	Mammal	Sus scrofa	1	
CT11	22/1/21	1:08:04	IMG_0066.AVI	Mammal	Sus scrofa	1	
CT11	22/1/21	9:11:46	IMG_0063.AVI	Mammal	Canis lupus familiaris	2	
CT11	22/1/21	9:48:38	IMG_0064.AVI	Mammal	Sus scrofa	1	
CT11	23/1/21	8:09:54	IMG_0067.AVI	Bird	Unidentified bird	1	
CT11	23/1/21	8:10:38	IMG_0068.AVI	Mammal	Tupaia glis	1	
CT11	23/1/21	9:33:48	IMG_0069.AVI	Mammal	Callosciurus notatus	1	
CT11	24/1/21	18:46:18	IMG_0071.AVI	Mammal	Callosciurus notatus	1	
CT11	24/1/21	18:55:54	IMG_0072.AVI	Mammal	Tupaia glis	1	
CT11	24/1/21	18:55:54	IMG_0072.AVI	Mammal	Callosciurus notatus	1	
CT11	24/1/21	23:25:00	IMG_0073.AVI	Mammal	Sus scrofa	1	
CT11	24/1/21	23:25:26	IMG_0074.AVI	Mammal	Sus scrofa	1	
CT11	24/1/21	23:48:18	IMG_0075.AVI	Mammal	Sus scrofa	1	
CT11	24/1/21	23:50:32	IMG_0076.AVI	Mammal	Sus scrofa	1	
CT11	24/1/21	23:50:52	IMG_0077.AVI	Mammal	Sus scrofa	1	
CT11	25/1/21	21:01:56	IMG_0078.AVI	Mammal	Sus scrofa	1	
CT11	25/1/21	21:02:16	IMG_0079.AVI	Mammal	Sus scrofa	1	
CT11	25/1/21	21:02:38	IMG_0080.AVI	Mammal	Sus scrofa	1	
CT11	26/1/21	3:23:24	IMG_0085.AVI	Mammal	Sus scrofa	1	
CT11	26/1/21	10:29:26	IMG_0081.AVI	Mammal	Sus scrofa	1	
CT11	26/1/21	10:29:48	IMG_0082.AVI	Mammal	Sus scrofa	1	
CT11	26/1/21	10:32:14	IMG_0083.AVI	Mammal	Sus scrofa	2	
CT11	26/1/21	10:37:14	IMG_0084.AVI	Mammal	Sus scrofa	1	
CT11	27/1/21	3:40:52	IMG_0088.AVI	Mammal	Sus scrofa	1	
CT11	27/1/21	19:16:50	IMG_0086.AVI	Mammal	Sus scrofa	1	
CT11	27/1/21	23:35:54	IMG_0087.AVI	Mammal	Sus scrofa	1	
CT11	28/1/21	18:39:56	IMG_0089.AVI	Mammal	Sus scrofa	1	
CT11	28/1/21	20:22:26	IMG_0090.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT11	30/1/21	10:38:30	IMG_0091.AVI	Mammal	Sus scrofa	1	
CT11	30/1/21	10:39:54	IMG_0092.AVI	Mammal	Sus scrofa	1	
CT11	2/2/21	6:23:48	IMG_0094.AVI	Mammal	Sus scrofa	1	
CT11	2/2/21	6:24:10	IMG_0095.AVI	Mammal	Sus scrofa	1	
CT11	2/2/21	19:07:12	IMG_0093.AVI	Mammal	Sus scrofa	1	
CT11	3/2/21	22:21:22	IMG_0097.AVI	Mammal	Sus scrofa	1	
CT11	3/2/21	22:21:44	IMG_0098.AVI	Mammal	Sus scrofa	1	
CT11	3/2/21	22:22:14	IMG_0099.AVI	Mammal	Sus scrofa	1	
CT11	3/2/21	22:22:34	IMG_0100.AVI	Mammal	Sus scrofa	1	
CT11	3/2/21	22:22:56	IMG_0101.AVI	Mammal	Sus scrofa	1	
CT11	4/2/21	17:32:40	IMG_0102.AVI	Mammal	Sus scrofa	1	
CT11	4/2/21	17:39:40	IMG_0103.AVI	Mammal	Sus scrofa	1	
CT11	4/2/21	17:40:02	IMG_0104.AVI	Mammal	Sus scrofa	1	
CT11	6/12/21	20:47:54	IMG_0009.AVI	Mammal	Sus scrofa	1	
CT11	7/12/21	8:03:56	IMG_0011.AVI	Mammal	Sus scrofa	1	
CT11	7/12/21	19:11:04	IMG_0012.AVI	Mammal	Sus scrofa	1	
CT11	7/12/21	19:11:26	IMG_0013.AVI	Mammal	Sus scrofa	1	
CT11	8/12/21	7:00:16	IMG_0015.AVI	Mammal	Sus scrofa	1	
CT11	8/12/21	7:00:36	IMG_0016.AVI	Mammal	Sus scrofa	1	
CT11	8/12/21	7:01:32	IMG_0017.AVI	Mammal	Sus scrofa	1	
CT11	8/12/21	7:02:14	IMG_0018.AVI	Mammal	Sus scrofa	1	
CT11	8/12/21	7:02:42	IMG_0019.AVI	Mammal	Sus scrofa	1	
CT11	8/12/21	7:03:04	IMG_0020.AVI	Mammal	Sus scrofa	1	
CT11	8/12/21	7:03:26	IMG_0021.AVI	Mammal	Sus scrofa	1	
CT11	8/12/21	7:04:16	IMG_0022.AVI	Mammal	Sus scrofa	1	
CT11	8/12/21	7:04:42	IMG_0023.AVI	Mammal	Sus scrofa	1	
CT11	8/12/21	7:06:00	IMG_0024.AVI	Mammal	Sus scrofa	1	
CT11	8/12/21	7:06:24	IMG_0025.AVI	Mammal	Sus scrofa	1	
CT11	8/12/21	7:06:46	IMG_0026.AVI	Mammal	Sus scrofa	1	
CT11	8/12/21	7:07:14	IMG_0027.AVI	Mammal	Sus scrofa	1	
CT11	8/12/21	7:07:50	IMG_0028.AVI	Mammal	Sus scrofa	1	
CT11	8/12/21	7:08:14	IMG_0029.AVI	Mammal	Sus scrofa	1	
CT11	8/12/21	7:08:36	IMG_0030.AVI	Mammal	Sus scrofa	1	
CT11	8/12/21	7:08:56	IMG_0031.AVI	Mammal	Sus scrofa	1	
CT11	8/12/21	7:09:20	IMG_0032.AVI	Mammal	Sus scrofa	1	
CT11	8/12/21	7:09:40	IMG_0033.AVI	Mammal	Sus scrofa	1	
CT11	8/12/21	7:10:02	IMG_0034.AVI	Mammal	Sus scrofa	1	
CT11	8/12/21	7:10:24	IMG_0035.AVI	Mammal	Sus scrofa	1	
CT11	8/12/21	7:10:48	IMG_0036.AVI	Mammal	Sus scrofa	1	
CT11	8/12/21	7:11:14	IMG_0037.AVI	Mammal	Sus scrofa	1	
CT11	8/12/21	7:11:38	IMG_0038.AVI	Mammal	Sus scrofa	1	
CT11	8/12/21	7:11:58	IMG_0039.AVI	Mammal	Sus scrofa	1	
CT11	8/12/21	7:12:22	IMG_0040.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT11	8/12/21	9:31:22	IMG_0014.AVI	Mammal	Tupaia glis	1	
CT11	9/12/21	6:55:44	IMG_0060.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT11	9/12/21	16:00:50	IMG_0041.AVI	Mammal	Sus scrofa	1	
CT11	9/12/21	16:02:16	IMG_0042.AVI	Mammal	Sus scrofa	1	
CT11	9/12/21	16:02:36	IMG_0043.AVI	Mammal	Sus scrofa	1	
CT11	9/12/21	16:02:58	IMG_0044.AVI	Mammal	Sus scrofa	1	
CT11	9/12/21	16:03:32	IMG_0045.AVI	Mammal	Sus scrofa	1	
CT11	9/12/21	16:03:56	IMG_0046.AVI	Mammal	Sus scrofa	1	
CT11	9/12/21	16:04:18	IMG_0047.AVI	Mammal	Sus scrofa	1	
CT11	9/12/21	16:04:46	IMG_0048.AVI	Mammal	Sus scrofa	1	
CT11	9/12/21	16:05:08	IMG_0049.AVI	Mammal	Sus scrofa	1	
CT11	9/12/21	16:05:40	IMG_0050.AVI	Mammal	Sus scrofa	1	
CT11	9/12/21	16:08:08	IMG_0051.AVI	Mammal	Sus scrofa	1	
CT11	9/12/21	16:08:34	IMG_0052.AVI	Mammal	Sus scrofa	1	
CT11	9/12/21	16:08:56	IMG_0053.AVI	Mammal	Sus scrofa	1	
CT11	9/12/21	16:09:16	IMG_0054.AVI	Mammal	Sus scrofa	1	
CT11	9/12/21	16:09:54	IMG_0055.AVI	Mammal	Sus scrofa	1	
CT11	9/12/21	19:10:44	IMG_0056.AVI	Bird	Caprimulgus macrurus	1	
CT11	9/12/21	23:28:52	IMG_0057.AVI	Mammal	Sus scrofa	1	
CT11	9/12/21	23:35:50	IMG_0058.AVI	Mammal	Sus scrofa	1	
CT11	9/12/21	23:36:12	IMG_0059.AVI	Mammal	Sus scrofa	1	
CT11	10/12/21	17:37:40	IMG_0061.AVI	Mammal	Sus scrofa	1	
CT11	10/12/21	17:38:04	IMG_0062.AVI	Mammal	Sus scrofa	1	
CT11	10/12/21	17:38:46	IMG_0064.AVI	Mammal	Sus scrofa	1	
CT11	10/12/21	17:39:08	IMG_0065.AVI	Mammal	Sus scrofa	1	
CT11	10/12/21	17:39:32	IMG_0066.AVI	Mammal	Sus scrofa	1	
CT11	10/12/21	18:25:52	IMG_0067.AVI	Bird	Gallus gallus	1	
CT11	10/12/21	18:36:16	IMG_0068.AVI	Mammal	Sus scrofa	1	
CT11	10/12/21	18:41:48	IMG_0069.AVI	Mammal	Sus scrofa	1	
CT11	13/12/21	7:12:36	IMG_0012.AVI	Mammal	Sus scrofa	1	
CT11	13/12/21	15:59:06	IMG_0006.AVI	Mammal	Sus scrofa	1	
CT11	13/12/21	15:59:28	IMG_0007.AVI	Mammal	Sus scrofa	1	
CT11	13/12/21	16:00:02	IMG_0008.AVI	Mammal	Sus scrofa	1	
CT11	13/12/21	16:01:36	IMG_0009.AVI	Mammal	Sus scrofa	1	
CT11	13/12/21	18:26:46	IMG_0010.AVI	Mammal	Sus scrofa	2	
CT11	13/12/21	23:42:34	IMG_0011.AVI	Mammal	Sus scrofa	1	
CT11	15/12/21	23:49:44	IMG_0013.AVI	Mammal	Sus scrofa	1	
CT11	15/12/21	23:50:08	IMG_0014.AVI	Mammal	Sus scrofa	1	
CT11	15/12/21	23:50:30	IMG_0015.AVI	Mammal	Sus scrofa	1	
CT11	15/12/21	23:51:10	IMG_0016.AVI	Mammal	Sus scrofa	1	
CT11	15/12/21	23:51:30	IMG_0017.AVI	Mammal	Sus scrofa	1	
CT11	15/12/21	23:51:54	IMG_0018.AVI	Mammal	Sus scrofa	1	
CT11	16/12/21	21:51:30	IMG_0020.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT11	16/12/21	21:51:52	IMG_0021.AVI	Mammal	Sus scrofa	1	
CT11	16/12/21	21:52:12	IMG_0022.AVI	Mammal	Sus scrofa	1	
CT11	16/12/21	21:52:32	IMG_0023.AVI	Mammal	Sus scrofa	2	
CT11	16/12/21	21:52:52	IMG_0024.AVI	Mammal	Sus scrofa	2	
CT11	16/12/21	21:53:12	IMG_0025.AVI	Mammal	Sus scrofa	2	
CT11	16/12/21	21:53:34	IMG_0026.AVI	Mammal	Sus scrofa	1	
CT11	16/12/21	21:53:54	IMG_0027.AVI	Mammal	Sus scrofa	1	
CT11	16/12/21	21:54:20	IMG_0028.AVI	Mammal	Sus scrofa	1	
CT11	17/12/21	18:24:54	IMG_0029.AVI	Mammal	Sus scrofa	1	
CT11	17/12/21	18:25:16	IMG_0030.AVI	Mammal	Sus scrofa	1	
CT11	17/12/21	18:25:38	IMG_0031.AVI	Mammal	Sus scrofa	1	
CT11	17/12/21	18:25:58	IMG_0032.AVI	Mammal	Sus scrofa	1	
CT11	17/12/21	18:29:32	IMG_0033.AVI	Mammal	Sus scrofa	2	
CT11	17/12/21	18:29:54	IMG_0034.AVI	Mammal	Sus scrofa	2	
CT11	17/12/21	18:30:18	IMG_0035.AVI	Mammal	Sus scrofa	1	
CT11	17/12/21	18:30:38	IMG_0036.AVI	Mammal	Sus scrofa	2	
CT11	19/3/22	1:19:32	IMG_0014.AVI	Mammal	Tupaia glis	1	
CT11	19/3/22	1:19:33	IMG_0060.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT11	19/3/22	1:19:38	IMG_0056.AVI	Bird	Caprimulgus macrurus	1	
CT11	19/3/22	1:19:38	IMG_0067.AVI	Bird	Gallus gallus	1	
CT11	19/3/22	1:19:39	IMG_0048.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:19:40	IMG_0061.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:19:41	IMG_0062.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:19:42	IMG_0059.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:19:43	IMG_0064.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:19:44	IMG_0028.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:19:45	IMG_0029.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:19:46	IMG_0039.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:19:47	IMG_0038.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:19:48	IMG_0013.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:19:49	IMG_0036.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:19:50	IMG_0023.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:19:51	IMG_0035.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:19:52	IMG_0020.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:19:53	IMG_0030.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:19:54	IMG_0024.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:19:55	IMG_0019.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:19:56	IMG_0031.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:19:57	IMG_0033.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:19:58	IMG_0032.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:19:59	IMG_0026.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:20:00	IMG_0041.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:20:01	IMG_0054.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT11	19/3/22	1:20:02	IMG_0040.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:20:03	IMG_0068.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:20:04	IMG_0043.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:20:05	IMG_0053.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:20:06	IMG_0046.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:20:07	IMG_0052.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:20:08	IMG_0044.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:20:09	IMG_0051.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:20:10	IMG_0045.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:21:40	IMG_0010.AVI	Mammal	Sus scrofa	2	
CT11	19/3/22	1:21:41	IMG_0036.AVI	Mammal	Sus scrofa	2	
CT11	19/3/22	1:21:42	IMG_0034.AVI	Mammal	Sus scrofa	2	
CT11	19/3/22	1:21:43	IMG_0025.AVI	Mammal	Sus scrofa	2	
CT11	19/3/22	1:21:46	IMG_0017.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:21:47	IMG_0028.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:21:48	IMG_0015.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:21:49	IMG_0011.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:21:50	IMG_0012.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:21:51	IMG_0013.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:21:52	IMG_0022.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:21:53	IMG_0035.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:21:54	IMG_0020.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:21:55	IMG_0030.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:21:56	IMG_0031.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:21:57	IMG_0032.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:21:58	IMG_0026.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:34:48	IMG_0063.AVI	Mammal	Canis lupus familiaris	2	
CT11	19/3/22	1:34:48	IMG_0068.AVI	Mammal	Tupaia glis	1	
CT11	19/3/22	1:34:49	IMG_0041.AVI	Mammal	Sus scrofa	3	
CT11	19/3/22	1:34:49	IMG_0051.AVI	Mammal	Canis lupus familiaris	2	
CT11	19/3/22	1:34:50	IMG_0040.AVI	Mammal	Sus scrofa	3	
CT11	19/3/22	1:34:51	IMG_0043.AVI	Mammal	Sus scrofa	3	
CT11	19/3/22	1:34:52	IMG_0044.AVI	Mammal	Sus scrofa	3	
CT11	19/3/22	1:34:53	IMG_0039.AVI	Mammal	Sus scrofa	2	
CT11	19/3/22	1:34:54	IMG_0031.AVI	Mammal	Sus scrofa	2	
CT11	19/3/22	1:34:55	IMG_0055.AVI	Mammal	Sus scrofa	2	
CT11	19/3/22	1:34:56	IMG_0054.AVI	Mammal	Sus scrofa	2	
CT11	19/3/22	1:34:57	IMG_0053.AVI	Mammal	Sus scrofa	2	
CT11	19/3/22	1:34:58	IMG_0045.AVI	Mammal	Sus scrofa	2	
CT11	19/3/22	1:34:58	IMG_0072.AVI	Mammal	Tupaia glis	1	
CT11	19/3/22	1:34:59	IMG_0010.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT11	19/3/22	1:35:01	IMG_0067.AVI	Bird	Unidentified bird	1	
CT11	19/3/22	1:35:01	IMG_0072.AVI	Mammal	Callosciurus notatus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT11	19/3/22	1:35:02	IMG_0003.AVI	Mammal	Callosciurus notatus	1	
CT11	19/3/22	1:35:03	IMG_0011.AVI	Mammal	Callosciurus notatus	1	
CT11	19/3/22	1:35:04	IMG_0005.AVI	Mammal	Callosciurus notatus	1	
CT11	19/3/22	1:35:05	IMG_0004.AVI	Mammal	Callosciurus notatus	1	
CT11	19/3/22	1:35:06	IMG_0006.AVI	N.A	Unidentified sp.	1	
CT11	19/3/22	1:35:06	IMG_0069.AVI	Mammal	Callosciurus notatus	1	
CT11	19/3/22	1:35:07	IMG_0010.AVI	Bird	Garrulax leucolophus	2	
CT11	19/3/22	1:35:07	IMG_0016.AVI	Bird	Gallus gallus	1	
CT11	19/3/22	1:35:08	IMG_0060.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:09	IMG_0075.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:10	IMG_0049.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:11	IMG_0077.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:12	IMG_0102.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:13	IMG_0062.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:14	IMG_0066.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:15	IMG_0073.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:16	IMG_0059.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:17	IMG_0058.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:18	IMG_0017.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:19	IMG_0016.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:20	IMG_0014.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:21	IMG_0013.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:22	IMG_0022.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:23	IMG_0023.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:24	IMG_0020.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:25	IMG_0008.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:26	IMG_0024.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:27	IMG_0018.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:28	IMG_0025.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:29	IMG_0033.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:30	IMG_0026.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:31	IMG_0082.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:32	IMG_0095.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:33	IMG_0057.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:34	IMG_0080.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:35	IMG_0084.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:36	IMG_0047.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:37	IMG_0091.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:38	IMG_0078.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:39	IMG_0079.AVI	Mammal	Sus scrofa	1	
CT11	19/3/22	1:35:40	IMG_0086.AVI	Mammal	Sus scrofa	1	
CT12	10/1/21	7:30:42	IMG_0006.AVI	Bird	Picus vittatus	2	
CT12	10/1/21	20:13:30	IMG_0005.AVI	Mammal	Sus scrofa	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT12	12/1/21	2:14:54	IMG_0009.AVI	Mammal	Canis lupus familiaris	2	
CT12	12/1/21	9:46:14	IMG_0007.AVI	Mammal	Callosciurus notatus	1	
CT12	13/1/21	18:08:18	IMG_0011.AVI	Mammal	Callosciurus notatus	1	
CT12	14/1/21	6:19:56	IMG_0018.AVI	Mammal	Unidentified Muridae	1	
CT12	14/1/21	13:13:54	IMG_0012.AVI	Bird	Spilopelia chinensis	2	
CT12	14/1/21	13:51:20	IMG_0014.AVI	Bird	Spilopelia chinensis	1	
CT12	14/1/21	13:52:48	IMG_0015.AVI	Bird	Spilopelia chinensis	1	
CT12	14/1/21	17:10:44	IMG_0016.AVI	Bird	Gallus gallus	1	
CT12	14/1/21	19:10:04	IMG_0017.AVI	Mammal	Callosciurus notatus	1	
CT12	15/1/21	15:45:14	IMG_0020.AVI	Mammal	Canis lupus familiaris	2	
CT12	17/1/21	7:47:12	IMG_0025.AVI	Bird	Amaurornis phoenicurus	1	
CT12	17/1/21	8:35:22	IMG_0022.AVI	Bird	Picus vittatus	1	
CT12	17/1/21	12:28:20	IMG_0023.AVI	Bird	Acridotheres javanicus	2	
CT12	17/1/21	17:59:24	IMG_0024.AVI	Mammal	Canis lupus familiaris	1	
CT12	18/1/21	8:56:52	IMG_0026.AVI	Bird	Picus vittatus	1	
CT12	18/1/21	12:50:08	IMG_0028.AVI	Reptile	Varanus sp.	1	
CT12	18/1/21	12:51:02	IMG_0029.AVI	Reptile	Varanus sp.	1	
CT12	18/1/21	13:55:00	IMG_0030.AVI	Mammal	Callosciurus notatus	1	
CT12	18/1/21	14:29:26	IMG_0031.AVI	Mammal	Callosciurus notatus	1	
CT12	19/1/21	16:32:06	IMG_0032.AVI	Bird	Acridotheres javanicus	1	
CT12	19/1/21	18:52:30	IMG_0033.AVI	Mammal	Canis lupus familiaris	1	
CT12	19/1/21	19:00:02	IMG_0034.AVI	Mammal	Canis lupus familiaris	2	
CT12	20/1/21	0:56:06	IMG_0045.AVI	Mammal	Unidentified Muridae	1	
CT12	20/1/21	9:38:38	IMG_0035.AVI	Bird	Picus vittatus	1	
CT12	20/1/21	9:45:08	IMG_0036.AVI	Mammal	Callosciurus notatus	1	
CT12	20/1/21	12:10:02	IMG_0037.AVI	Bird	Gallus gallus	1	
CT12	20/1/21	14:35:58	IMG_0040.AVI	Mammal	Callosciurus notatus	1	
CT12	21/1/21	16:50:42	IMG_0050.AVI	Reptile	Varanus salvator	1	
CT12	21/1/21	20:42:36	IMG_0051.AVI	Mammal	Unidentified Muridae	1	
CT12	23/1/21	0:39:20	IMG_0058.AVI	Mammal	Unidentified Muridae	1	
CT12	23/1/21	7:18:50	IMG_0059.AVI	Bird	Picus vittatus	2	Mating
CT12	23/1/21	9:19:08	IMG_0056.AVI	Bird	Acridotheres javanicus	1	
CT12	26/1/21	10:16:40	IMG_0062.AVI	Mammal	Canis lupus familiaris	1	
CT12	26/1/21	10:18:44	IMG_0063.AVI	Mammal	Canis lupus familiaris	1	
CT12	26/1/21	10:35:10	IMG_0064.AVI	Mammal	Canis lupus familiaris	1	
CT12	26/1/21	10:35:52	IMG_0065.AVI	Mammal	Canis lupus familiaris	1	
CT12	27/1/21	8:22:50	IMG_0067.AVI	Mammal	Callosciurus notatus	1	
CT12	28/1/21	8:05:32	IMG_0071.AVI	Mammal	Callosciurus notatus	1	
CT12	28/1/21	11:21:08	IMG_0072.AVI	Mammal	Canis lupus familiaris	1	
CT12	28/1/21	11:22:12	IMG_0073.AVI	Mammal	Canis lupus familiaris	1	
CT12	28/1/21	11:34:46	IMG_0074.AVI	Bird	Acridotheres javanicus	1	
CT12	28/1/21	11:34:46	IMG_0074.AVI	Mammal	Canis lupus familiaris	1	
CT12	28/1/21	11:37:14	IMG_0075.AVI	Mammal	Canis lupus familiaris	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT12	28/1/21	14:41:52	IMG_0076.AVI	Mammal	Canis lupus familiaris	1	
CT12	30/1/21	3:20:24	IMG_0081.AVI	Mammal	Unidentified Muridae	1	
CT12	30/1/21	21:30:18	IMG_0080.AVI	Mammal	Unidentified Muridae	1	
CT12	31/1/21	20:05:36	IMG_0084.AVI	Mammal	Unidentified Muridae	1	
CT12	2/2/21	6:49:14	IMG_0091.AVI	Mammal	Unidentified Muridae	1	
CT12	2/2/21	10:34:48	IMG_0086.AVI	Mammal	Callosciurus notatus	1	
CT12	2/2/21	10:36:02	IMG_0087.AVI	Mammal	Callosciurus notatus	1	
CT12	2/2/21	19:13:34	IMG_0088.AVI	Mammal	Canis lupus familiaris	1	
CT12	2/2/21	19:13:58	IMG_0089.AVI	Mammal	Canis lupus familiaris	1	
CT12	2/2/21	21:06:44	IMG_0090.AVI	Mammal	Unidentified Muridae	1	
CT12	3/2/21	8:46:22	IMG_0092.AVI	Bird	Picus vittatus	1	
CT12	3/2/21	8:51:58	IMG_0093.AVI	Bird	Amaurornis phoenicurus	1	
CT12	3/2/21	20:00:12	IMG_0094.AVI	Mammal	Unidentified Muridae	1	
CT12	5/2/21	18:04:00	IMG_0097.AVI	Bird	Picus vittatus	1	
CT12	6/2/21	2:40:36	IMG_0098.AVI	Mammal	Unidentified Muridae	1	
CT12	6/12/21	12:28:58	IMG_0013.AVI	Bird	Picus vittatus	1	
CT12	6/12/21	12:29:34	IMG_0014.AVI	Bird	Picus vittatus	1	
CT12	6/12/21	12:33:08	IMG_0015.AVI	Bird	Copsychus saularis	1	
CT12	6/12/21	19:33:46	IMG_0016.AVI	Mammal	Rattus tiomanicus	1	
CT12	8/12/21	2:47:28	IMG_0024.AVI	Mammal	Rattus tiomanicus	1	
CT12	8/12/21	6:07:30	IMG_0025.AVI	Mammal	Rattus tiomanicus	1	
CT12	8/12/21	6:49:50	IMG_0026.AVI	Bird	Rhipidura javanica	1	
CT12	8/12/21	12:21:24	IMG_0018.AVI	Reptile	Varanus sp.	1	
CT12	8/12/21	12:21:48	IMG_0019.AVI	Reptile	Varanus sp.	1	
CT12	8/12/21	19:50:36	IMG_0020.AVI	Mammal	Sus scrofa	1	
CT12	8/12/21	19:50:58	IMG_0021.AVI	Mammal	Sus scrofa	1	
CT12	8/12/21	19:51:26	IMG_0022.AVI	Mammal	Sus scrofa	1	
CT12	8/12/21	19:51:52	IMG_0023.AVI	Mammal	Sus scrofa	1	
CT12	9/12/21	14:06:52	IMG_0027.AVI	Mammal	Callosciurus notatus	1	
CT12	9/12/21	14:52:58	IMG_0028.AVI	N.A	Unidentified sp.	1	
CT12	10/12/21	7:07:04	IMG_0029.AVI	Bird	Nycticorax nycticorax	1	
CT12	10/12/21	7:13:34	IMG_0030.AVI	Bird	Nycticorax nycticorax	1	
CT12	13/12/21	7:45:02	IMG_0023.AVI	Bird	Acridotheres javanicus	1	
CT12	13/12/21	11:02:42	IMG_0006.AVI	Mammal	Lutrogale perspicillata	3	
CT12	13/12/21	11:03:04	IMG_0007.AVI	Mammal	Lutrogale perspicillata	5	
CT12	13/12/21	11:03:26	IMG_0008.AVI	Mammal	Lutrogale perspicillata	4	
CT12	13/12/21	11:03:50	IMG_0009.AVI	Mammal	Lutrogale perspicillata	4	
CT12	13/12/21	11:04:12	IMG_0010.AVI	Mammal	Lutrogale perspicillata	3	
CT12	13/12/21	11:04:40	IMG_0011.AVI	Mammal	Lutrogale perspicillata	1	
CT12	14/12/21	11:03:08	IMG_0029.AVI	Bird	Acridotheres javanicus	1	
CT12	17/12/21	11:14:16	IMG_0067.AVI	Bird	Acridotheres javanicus	2	
CT12	20/12/21	8:04:10	IMG_0086.AVI	Bird	Picus vittatus	1	
CT12	20/12/21	8:09:06	IMG_0087.AVI	Mammal	Callosciurus notatus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT12	20/12/21	16:35:50	IMG_0093.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT12	21/12/21	10:58:12	IMG_0095.AVI	Reptile	Varanus sp.	1	
CT12	21/12/21	12:14:14	IMG_0096.AVI	Bird	Acridotheres javanicus	1	
CT12	21/12/21	12:32:36	IMG_0097.AVI	Bird	Acridotheres javanicus	2	
CT12	21/12/21	13:35:44	IMG_0098.AVI	Bird	Picus vittatus	1	
CT12	19/3/22	1:28:37	IMG_0026.AVI	Bird	Rhipidura javanica	1	
CT12	19/3/22	1:28:38	IMG_0013.AVI	Bird	Picus vittatus	1	
CT12	19/3/22	1:28:39	IMG_0015.AVI	Bird	Copsychus saularis	1	
CT12	19/3/22	1:28:44	IMG_0018.AVI	Reptile	Varanus sp.	1	
CT12	19/3/22	1:28:45	IMG_0019.AVI	Reptile	Varanus sp.	1	
CT12	19/3/22	1:28:45	IMG_0027.AVI	Mammal	Callosciurus notatus	1	
CT12	19/3/22	1:28:45	IMG_0028.AVI	N.A	Unidentified sp.	1	
CT12	19/3/22	1:28:46	IMG_0022.AVI	Mammal	Sus scrofa	1	
CT12	19/3/22	1:28:47	IMG_0020.AVI	Mammal	Sus scrofa	1	
CT12	19/3/22	1:28:48	IMG_0016.AVI	Mammal	Rattus tiomanicus	1	
CT12	19/3/22	1:28:50	IMG_0029.AVI	Bird	Nycticorax nycticorax	1	
CT12	19/3/22	1:48:47	IMG_0098.AVI	Bird	Picus vittatus	1	
CT12	19/3/22	1:48:48	IMG_0093.AVI	Mammal	Unidentified squirrel or treeshrew	1	
CT12	19/3/22	1:48:48	IMG_0011.AVI	Mammal	Lutrogale perspicillata	1	
CT12	19/3/22	1:48:52	IMG_0095.AVI	Reptile	Varanus sp.	1	
CT12	19/3/22	1:48:52	IMG_0029.AVI	Bird	Acridotheres javanicus	1	
CT12	19/3/22	1:48:53	IMG_0023.AVI	Bird	Acridotheres javanicus	1	
CT12	19/3/22	1:48:53	IMG_0087.AVI	Mammal	Callosciurus notatus	1	
CT12	19/3/22	1:49:28	IMG_0007.AVI	Mammal	Lutrogale perspicillata	5	
CT12	19/3/22	1:49:29	IMG_0067.AVI	Bird	Acridotheres javanicus	2	
CT12	19/3/22	1:49:30	IMG_0010.AVI	Mammal	Lutrogale perspicillata	3	
CT12	19/3/22	1:49:31	IMG_0009.AVI	Mammal	Lutrogale perspicillata	4	
CT12	19/3/22	1:49:32	IMG_0008.AVI	Mammal	Lutrogale perspicillata	4	
CT12	19/3/22	1:50:04	IMG_0050.AVI	Reptile	Varanus salvator	1	
CT12	19/3/22	1:50:05	IMG_0009.AVI	Mammal	Canis lupus familiaris	2	
CT12	19/3/22	1:50:05	IMG_0012.AVI	Bird	Spilopelia chinensis	2	
CT12	19/3/22	1:50:06	IMG_0020.AVI	Mammal	Canis lupus familiaris	2	
CT12	19/3/22	1:50:07	IMG_0022.AVI	Bird	Picus vittatus	1	
CT12	19/3/22	1:50:08	IMG_0092.AVI	Bird	Picus vittatus	1	
CT12	19/3/22	1:50:11	IMG_0028.AVI	Reptile	Varanus sp.	1	
CT12	19/3/22	1:50:12	IMG_0029.AVI	Reptile	Varanus sp.	1	
CT12	19/3/22	1:50:12	IMG_0032.AVI	Bird	Acridotheres javanicus	1	
CT12	19/3/22	1:50:13	IMG_0014.AVI	Bird	Spilopelia chinensis	1	
CT12	19/3/22	1:50:13	IMG_0056.AVI	Bird	Acridotheres javanicus	1	
CT12	19/3/22	1:50:14	IMG_0015.AVI	Bird	Spilopelia chinensis	1	
CT12	19/3/22	1:50:14	IMG_0067.AVI	Mammal	Callosciurus notatus	1	
CT12	19/3/22	1:50:15	IMG_0017.AVI	Mammal	Callosciurus notatus	1	
CT12	19/3/22	1:50:16	IMG_0007.AVI	Mammal	Callosciurus notatus	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT12	19/3/22	1:50:17	IMG_0036.AVI	Mammal	Callosciurus notatus	1	
CT12	19/3/22	1:50:18	IMG_0030.AVI	Mammal	Callosciurus notatus	1	
CT12	19/3/22	1:50:19	IMG_0040.AVI	Mammal	Callosciurus notatus	1	
CT12	19/3/22	1:50:20	IMG_0074.AVI	Mammal	Canis lupus familiaris	1	
CT12	19/3/22	1:50:20	IMG_0086.AVI	Mammal	Callosciurus notatus	1	
CT12	19/3/22	1:50:21	IMG_0075.AVI	Mammal	Canis lupus familiaris	1	
CT12	19/3/22	1:50:22	IMG_0062.AVI	Mammal	Canis lupus familiaris	1	
CT12	19/3/22	1:50:23	IMG_0072.AVI	Mammal	Canis lupus familiaris	1	
CT12	19/3/22	1:50:24	IMG_0065.AVI	Mammal	Canis lupus familiaris	1	
CT12	19/3/22	1:50:25	IMG_0024.AVI	Mammal	Canis lupus familiaris	1	
CT12	19/3/22	1:50:26	IMG_0006.AVI	Bird	Picus vittatus	2	
CT12	19/3/22	1:50:26	IMG_0025.AVI	Bird	Amaurornis phoenicurus	1	
CT12	19/3/22	1:50:27	IMG_0016.AVI	Bird	Gallus gallus	1	
CT12	19/3/22	1:50:27	IMG_0093.AVI	Bird	Amaurornis phoenicurus	1	
CT12	19/3/22	1:50:28	IMG_0005.AVI	Mammal	Sus scrofa	1	
CT12	19/3/22	1:50:28	IMG_0037.AVI	Bird	Gallus gallus	1	
CT12	19/3/22	1:50:29	IMG_0018.AVI	Mammal	Unidentified Muridae	1	
CT12	19/3/22	1:50:30	IMG_0080.AVI	Mammal	Unidentified Muridae	1	
CT12	19/3/22	1:50:31	IMG_0094.AVI	Mammal	Unidentified Muridae	1	
CT12	19/3/22	1:50:32	IMG_0084.AVI	Mammal	Unidentified Muridae	1	
CT12	19/3/22	1:50:33	IMG_0045.AVI	Mammal	Unidentified Muridae	1	
CT12	19/3/22	1:50:34	IMG_0074.AVI	Bird	Acridotheres javanicus	1	
CT12	19/3/22	1:50:51	IMG_0023.AVI	Bird	Acridotheres javanicus	2	
CT12	19/3/22	1:50:52	IMG_0059.AVI	Bird	Picus vittatus	2	Mating
CT13	8/1/17	11:00:52	IMG_0012.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/17	11:04:20	IMG_0013.AVI	Mammal	Canis lupus familiaris	3	
CT13	8/1/17	11:04:42	IMG_0014.AVI	Mammal	Canis lupus familiaris	4	
CT13	8/1/17	11:05:26	IMG_0015.AVI	Mammal	Canis lupus familiaris	4	
CT13	8/1/17	11:05:48	IMG_0016.AVI	Mammal	Canis lupus familiaris	4	
CT13	8/1/17	11:06:10	IMG_0017.AVI	Mammal	Canis lupus familiaris	2	
CT13	8/1/17	11:06:38	IMG_0018.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/17	11:07:24	IMG_0019.AVI	Mammal	Canis lupus familiaris	2	
CT13	8/1/17	11:08:18	IMG_0020.AVI	Mammal	Canis lupus familiaris	2	
CT13	8/1/17	11:09:14	IMG_0021.AVI	Mammal	Canis lupus familiaris	2	
CT13	8/1/17	11:13:06	IMG_0022.AVI	Mammal	Canis lupus familiaris	2	
CT13	8/1/17	11:15:12	IMG_0023.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/17	14:18:08	IMG_0024.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/17	14:18:38	IMG_0025.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/17	15:51:40	IMG_0026.AVI	Mammal	Canis lupus familiaris	3	
CT13	8/1/17	15:52:14	IMG_0027.AVI	Mammal	Canis lupus familiaris	3	
CT13	23/12/21	16:57:32	IMG_0024.AVI	Mammal	Canis lupus familiaris	1	
CT13	7/1/22	11:25:56	IMG_0025.AVI	Mammal	Canis lupus familiaris	4	
CT13	7/1/22	11:26:16	IMG_0026.AVI	Mammal	Canis lupus familiaris	4	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT13	7/1/22	18:03:08	IMG_0027.AVI	Mammal	Canis lupus familiaris	3	
CT13	7/1/22	18:03:30	IMG_0028.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/22	13:29:14	IMG_0029.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/22	13:29:42	IMG_0030.AVI	Mammal	Canis lupus familiaris	2	
CT13	8/1/22	14:14:12	IMG_0031.AVI	Mammal	Canis lupus familiaris	2	
CT13	8/1/22	14:14:40	IMG_0032.AVI	Mammal	Canis lupus familiaris	2	
CT13	8/1/22	14:15:04	IMG_0033.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/22	14:15:26	IMG_0034.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/22	14:15:54	IMG_0035.AVI	Mammal	Canis lupus familiaris	2	
CT13	8/1/22	14:16:48	IMG_0036.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/22	14:17:10	IMG_0037.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/22	14:17:32	IMG_0038.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/22	14:17:54	IMG_0039.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/22	14:18:20	IMG_0040.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/22	14:18:42	IMG_0041.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/22	14:19:06	IMG_0042.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/22	14:22:58	IMG_0044.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/22	14:23:50	IMG_0045.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/22	14:24:26	IMG_0046.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/22	14:24:54	IMG_0047.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/22	14:26:48	IMG_0048.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/22	14:27:16	IMG_0049.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/22	14:31:06	IMG_0050.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/22	14:31:28	IMG_0051.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/22	14:32:34	IMG_0052.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/22	14:39:32	IMG_0053.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/22	14:42:16	IMG_0054.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/22	14:43:58	IMG_0055.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/22	17:14:18	IMG_0056.AVI	Mammal	Canis lupus familiaris	1	
CT13	8/1/22	17:14:40	IMG_0057.AVI	Mammal	Canis lupus familiaris	1	
CT13	19/3/22	1:47:58	IMG_0035.AVI	Mammal	Canis lupus familiaris	2	
CT13	19/3/22	1:47:59	IMG_0031.AVI	Mammal	Canis lupus familiaris	2	
CT13	19/3/22	1:48:00	IMG_0025.AVI	Mammal	Canis lupus familiaris	4	
CT13	19/3/22	1:48:10	IMG_0048.AVI	Mammal	Canis lupus familiaris	1	
CT13	19/3/22	1:48:11	IMG_0028.AVI	Mammal	Canis lupus familiaris	1	
CT13	19/3/22	1:48:12	IMG_0039.AVI	Mammal	Canis lupus familiaris	1	
CT13	19/3/22	1:48:13	IMG_0037.AVI	Mammal	Canis lupus familiaris	1	
CT13	19/3/22	1:48:14	IMG_0024.AVI	Mammal	Canis lupus familiaris	1	
CT13	19/3/22	1:48:15	IMG_0041.AVI	Mammal	Canis lupus familiaris	1	
CT13	19/3/22	1:48:16	IMG_0040.AVI	Mammal	Canis lupus familiaris	1	
CT13	19/3/22	1:48:17	IMG_0042.AVI	Mammal	Canis lupus familiaris	1	
CT13	19/3/22	1:48:18	IMG_0047.AVI	Mammal	Canis lupus familiaris	1	
CT13	19/3/22	1:48:19	IMG_0052.AVI	Mammal	Canis lupus familiaris	1	

Station	Date	Time	FileName	Taxon	Species	Quantity	Remarks
CT13	19/3/22	1:48:20	IMG_0050.AVI	Mammal	Canis lupus familiaris	1	
CT13	19/3/22	1:51:03	IMG_0017.AVI	Mammal	Canis lupus familiaris	2	
CT13	19/3/22	1:51:04	IMG_0021.AVI	Mammal	Canis lupus familiaris	2	
CT13	19/3/22	1:51:05	IMG_0019.AVI	Mammal	Canis lupus familiaris	2	
CT13	19/3/22	1:51:06	IMG_0026.AVI	Mammal	Canis lupus familiaris	3	
CT13	19/3/22	1:51:07	IMG_0014.AVI	Mammal	Canis lupus familiaris	4	
CT13	19/3/22	1:51:14	IMG_0012.AVI	Mammal	Canis lupus familiaris	1	
CT13	19/3/22	1:51:15	IMG_0024.AVI	Mammal	Canis lupus familiaris	1	

Station	Latitude	Longitude	Start date	End date	No. of trap nights
CT01	1.38739	103.75442	22-Feb-21	27-Apr-21	64
CT02	1.38679	103.75515	22-Feb-21	27-Apr-21	64
CT03	1.38390	103.75683	22-Feb-21	27-Apr-21	64
CT04	1.38245	103.75780	22-Feb-21	27-Apr-21	64
CT05	1.39793	103.75271	17-Dec-21	15-Feb-22	60
CT06	1.40748	103.75457	17-Dec-21	15-Feb-22	60
CT07	1.41104	103.75461	17-Dec-21	15-Feb-22	60
CT08	1.41449	103.75489	17-Dec-21	16-Mar-22	56
CT09	1.42061	103.75468	17-Dec-21	16-Mar-22	27
CT10	1.422788	103.75309	6-Dec-21	7-Feb-22	63
CT11	1.42732303	103.75255	6-Dec-21	4-Mar-22	62
CT12	1.43255099	103.75174	6-Dec-21	7-Feb-22	61
CT13	1.43716103	103.75225	6-Dec-21	7-Feb-22	63

Appendix J

Impact Assessment for Habitats, Flora and Fauna

Type	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Mangrove	Construction	Change in species composition	High	Low	Low	Possible	Minor	Low	Low	Possible	Minor
Sungei Pang Sua	Construction	Change in species composition	High	Low	Low	Unlikely	Negligible	Low	Low	Unlikely	Negligible
Urban Vegetation	Construction	Change in species composition	Low	Low	Very Low	Unlikely	Negligible	Low	Very Low	Unlikely	Negligible
Pang Sua Canal	Construction	Change in species composition	Low	Low	Very Low	Unlikely	Negligible	Low	Very Low	Unlikely	Negligible
Waste Woodland	Construction	Change in species composition	Medium	Negligible	Imperceptible	Unlikely	Negligible	Negligible	Imperceptible	Unlikely	Negligible
Scrubland	Construction	Change in species composition	Medium	Low	Very Low	Likely	Minor	Low	Very Low	Likely	Minor
Stream	Construction	Change in species composition	Medium	Negligible	Imperceptible	Unlikely	Negligible	Negligible	Imperceptible	Unlikely	Negligible
Mangrove	Construction	Habitat degradation	High	Low	Low	Likely	Moderate	Low	Low	Less likely	Minor
Sungei Pang Sua	Construction	Habitat degradation	High	Low	Low	Likely	Moderate	Low	Low	Less likely	Minor
Urban Vegetation	Construction	Habitat degradation	Low	Low	Very Low	Less likely	Negligible	Low	Very Low	Less likely	Negligible
Pang Sua Canal	Construction	Habitat degradation	Low	Low	Very Low	Less likely	Negligible	Low	Very Low	Less likely	Negligible
Waste Woodland	Construction	Habitat degradation	Medium	Negligible	Imperceptible	Less likely	Negligible	Negligible	Imperceptible	Less likely	Negligible
Scrubland	Construction	Habitat degradation	Medium	Low	Very Low	Less likely	Negligible	Low	Very Low	Less likely	Negligible
Stream	Construction	Habitat degradation	Medium	Negligible	Imperceptible	Unlikely	Negligible	Negligible	Imperceptible	Unlikely	Negligible
Mangrove	Construction	Loss of vegetation	High	Negligible	Imperceptible	Less likely	Negligible	Negligible	Very Low	Less likely	Negligible
Sungei Pang Sua	Construction	Loss of vegetation	High	Negligible	Very Low	Unlikely	Negligible	Negligible	Very Low	Unlikely	Negligible
Urban Vegetation	Construction	Loss of vegetation	Low	Low	Very Low	Certain	Minor	Low	Very Low	Certain	Minor
Pang Sua Canal	Construction	Loss of vegetation	Low	Negligible	Imperceptible	Unlikely	Negligible	Negligible	Imperceptible	Unlikely	Negligible
Waste Woodland	Construction	Loss of vegetation	Medium	Negligible	Imperceptible	Unlikely	Negligible	Negligible	Imperceptible	Unlikely	Negligible
Scrubland	Construction	Loss of vegetation	Medium	Low	Very Low	Certain	Minor	Low	Very Low	Certain	Minor
Stream	Construction	Loss of vegetation	Medium	Negligible	Imperceptible	Unlikely	Negligible	Negligible	Imperceptible	Unlikely	Negligible
Mangrove	Operational	Change in plant species composition	High	Negligible	Very Low	Unlikely	Negligible	Negligible	Very Low	Unlikely	Negligible
Sungei Pang Sua	Operational	Change in plant species composition	High	Negligible	Very Low	Unlikely	Negligible	Negligible	Very Low	Unlikely	Negligible
Urban Vegetation	Operational	Change in plant species composition	Low	Low	Very Low	Unlikely	Negligible	Low	Very Low	Unlikely	Negligible
Pang Sua Canal	Operational	Change in plant species composition	Low	Negligible	Imperceptible	Unlikely	Negligible	Negligible	Imperceptible	Unlikely	Negligible
Waste Woodland	Operational	Change in plant species composition	Medium	Negligible	Imperceptible	Unlikely	Negligible	Negligible	Imperceptible	Unlikely	Negligible
Scrubland	Operational	Change in plant species composition	Medium	Negligible	Imperceptible	Unlikely	Negligible	Negligible	Imperceptible	Unlikely	Negligible
Stream	Operational	Change in plant species composition	Medium	Negligible	Imperceptible	Unlikely	Negligible	Negligible	Imperceptible	Unlikely	Negligible
Mangrove	Operational	Habitat degradation	High	Low	Low	Unlikely	Negligible	Low	Low	Unlikely	Negligible
Sungei Pang Sua	Operational	Habitat degradation	High	Low	Low	Unlikely	Negligible	Low	Low	Unlikely	Negligible
Urban Vegetation	Operational	Habitat degradation	Low	Low	Very Low	Less likely	Negligible	Low	Very Low	Less likely	Negligible
Pang Sua Canal	Operational	Habitat degradation	Low	Low	Very Low	Unlikely	Negligible	Low	Very Low	Unlikely	Negligible
Waste Woodland	Operational	Habitat degradation	Medium	Negligible	Imperceptible	Unlikely	Negligible	Negligible	Imperceptible	Unlikely	Negligible
Scrubland	Operational	Habitat degradation	Medium	Low	Very Low	Unlikely	Negligible	Low	Very Low	Unlikely	Negligible
Stream	Operational	Habitat degradation	Medium	Low	Very Low	Unlikely	Negligible	Low	Very Low	Unlikely	Negligible

Receptor Type	Type	Receptor	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Plants	Direct	*Acanthus ebracteatus*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus heteropleura*	Operational	Competition from Exotic Species	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Acanthus ebracteatus*	Construction	Competition from exotic species	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus punctata*	Operational	Competition from Exotic Species	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Acanthus ebracteatus*	Construction	Impediment to seedling recruitment	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Acanthus ebracteatus*	Construction	Decline in plant health and survival	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Syzygium polyanthum*	Operational	Competition from Exotic Species	Medium	High	Medium	Less likely	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Acanthus ilicifolius*	Construction	Impediment to seedling recruitment	High	Low	Low	Less likely	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Acanthus ilicifolius*	Construction	Decline in plant health and survival	High	Low	Low	Less likely	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Cerbera odollam*	Operational	Competition from Exotic Species	Medium	High	Medium	Likely	Moderate	High	Medium	Less likely	Minor
Plants	Indirect	*Acanthus ilicifolius*	Construction	Competition from exotic species	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Hibiscus tiliaceus*	Operational	Competition from Exotic Species	Medium	High	Medium	Likely	Moderate	High	Medium	Less likely	Minor
Plants	Indirect	*Terminalia catappa*	Operational	Competition from Exotic Species	Medium	High	Medium	Likely	Moderate	High	Medium	Less likely	Minor
Plants	Direct	*Acanthus ilicifolius*	Construction	Injury/Mortality	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Acanthus sp.*	Construction	Impediment to seedling recruitment	High	Low	Low	Less likely	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Acanthus sp.*	Construction	Decline in plant health and survival	High	Low	Low	Less likely	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Direct	*Acanthus sp.*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Acanthus ebracteatus*	Operational	Competition from Exotic Species	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Acanthus sp.*	Construction	Competition from exotic species	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Acanthus ilicifolius*	Operational	Competition from Exotic Species	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Acanthus sp.*	Operational	Competition from Exotic Species	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Avicennia alba*	Construction	Impediment to seedling recruitment	High	Low	Low	Less likely	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Avicennia alba*	Construction	Decline in plant health and survival	High	Low	Low	Less likely	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Direct	*Avicennia alba*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Avicennia alba*	Operational	Competition from Exotic Species	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Avicennia alba*	Construction	Competition from exotic species	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Avicennia officinalis*	Operational	Competition from Exotic Species	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Avicennia rumphiana*	Operational	Competition from Exotic Species	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Bambusa heterostachya*	Operational	Competition from Exotic Species	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Avicennia officinalis*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Avicennia officinalis*	Construction	Competition from exotic species	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Barringtonia racemosa*	Operational	Competition from Exotic Species	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Avicennia officinalis*	Construction	Impediment to seedling recruitment	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Avicennia officinalis*	Construction	Decline in plant health and survival	High	Negligible	Very Low	Less likely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Bruguiera cylindrica*	Operational	Competition from Exotic Species	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Calophyllum inophyllum*	Operational	Competition from Exotic Species	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Avicennia rumphiana*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Avicennia rumphiana*	Construction	Competition from exotic species	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ceriops zippeliana*	Operational	Competition from Exotic Species	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Avicennia rumphiana*	Construction	Impediment to seedling recruitment	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Avicennia rumphiana*	Construction	Decline in plant health and survival	High	Negligible	Very Low	Less likely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Dolichandrone spathacea*	Operational	Competition from Exotic Species	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Elaeis guineensis*	Operational	Competition from Exotic Species	Low	Negligible	Imperceptible	Less likely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Bambusa heterostachya*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Bambusa heterostachya*	Construction	Competition from exotic species	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Excoecaria agallocha*	Operational	Competition from Exotic Species	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Bambusa heterostachya*	Construction	Impediment to seedling recruitment	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Bambusa heterostachya*	Construction	Decline in plant health and survival	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus benjamina*	Operational	Competition from Exotic Species	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus elastica*	Operational	Competition from Exotic Species	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Barringtonia racemosa*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Barringtonia racemosa*	Construction	Competition from exotic species	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible

Receptor Type	Type	Receptor	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Plants	Indirect	*Ficus microcarpa*	Operational	Competition from Exotic Species	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Barringtonia racemosa*	Construction	Impediment to seedling recruitment	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Barringtonia racemosa*	Construction	Decline in plant health and survival	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus religiosa*	Operational	Competition from Exotic Species	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus variegata*	Operational	Competition from Exotic Species	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Bruguiera cylindrica*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Bruguiera cylindrica*	Construction	Competition from exotic species	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Finlaysonia obovata*	Operational	Competition from Exotic Species	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Bruguiera cylindrica*	Construction	Impediment to seedling recruitment	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Bruguiera cylindrica*	Construction	Decline in plant health and survival	High	Negligible	Very Low	Less likely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Halophila beccari*	Operational	Competition from Exotic Species	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Leucaena leucocephala*	Operational	Competition from Exotic Species	Low	Negligible	Imperceptible	Less likely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Calophyllum inophyllum*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Calophyllum inophyllum*	Construction	Competition from exotic species	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Lumnitzera littorea*	Operational	Competition from Exotic Species	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Calophyllum inophyllum*	Construction	Impediment to seedling recruitment	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Calophyllum inophyllum*	Construction	Decline in plant health and survival	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Lumnitzera racemosa*	Operational	Competition from Exotic Species	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Mangifera indica*	Operational	Competition from Exotic Species	Low	Low	Very Low	Less likely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Cerbera odollam*	Construction	Impediment to seedling recruitment	Medium	Low	Very Low	Less likely	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Direct	*Cerbera odollam*	Construction	Injury/Mortality	Medium	Negligible	Imperceptible	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Cerbera odollam*	Construction	Decline in plant health and survival	Medium	Low	Very Low	Less likely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Cerbera odollam*	Construction	Competition from exotic species	Medium	Low	Very Low	Less likely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Nypa fruticans*	Operational	Competition from Exotic Species	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Palaquium obovatum*	Operational	Competition from Exotic Species	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Rhizophora apiculata*	Operational	Competition from Exotic Species	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Ceriops zippeliana*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ceriops zippeliana*	Construction	Competition from exotic species	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Samanea saman*	Operational	Competition from Exotic Species	Medium	Low	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ceriops zippeliana*	Construction	Impediment to seedling recruitment	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ceriops zippeliana*	Construction	Decline in plant health and survival	High	Negligible	Very Low	Less likely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Scurrula ferruginea*	Operational	Competition from Exotic Species	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Sonneratia alba*	Operational	Competition from Exotic Species	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Dolichandrone spathacea*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Sonneratia caseolaris*	Operational	Competition from Exotic Species	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Dolichandrone spathacea*	Construction	Competition from exotic species	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Dolichandrone spathacea*	Construction	Impediment to seedling recruitment	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Dolichandrone spathacea*	Construction	Decline in plant health and survival	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Spathodea campanulata*	Operational	Competition from Exotic Species	Low	Negligible	Imperceptible	Less likely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Elaeis guineensis*	Construction	Competition from exotic species	Low	Low	Very Low	Possible	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Direct	*Elaeis guineensis*	Construction	Impediment to seedling recruitment	Low	Low	Very Low	Less likely	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Xylocarpus granatum*	Operational	Competition from Exotic Species	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Elaeis guineensis*	Construction	Decline in plant health and survival	Low	Low	Very Low	Possible	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Direct	*Elaeis guineensis*	Construction	Injury/Mortality	Low	Negligible	Imperceptible	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Acanthus ebracteatus*	Operational	Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Acanthus ilicifolius*	Operational	Mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Acanthus sp.*	Operational	Mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Excoecaria agallocha*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Avicennia alba*	Operational	Mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Excoecaria agallocha*	Construction	Competition from exotic species	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Excoecaria agallocha*	Construction	Impediment to seedling recruitment	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Excoecaria agallocha*	Construction	Decline in plant health and survival	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible

Receptor Type	Type	Receptor	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Plants	Direct	*Avicennia officinalis*	Operational	Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Avicennia rumphiana*	Operational	Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Ficus benjamina*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Bambusa heterostachya*	Operational	Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus benjamina*	Construction	Competition from exotic species	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus benjamina*	Construction	Impediment to seedling recruitment	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus benjamina*	Construction	Decline in plant health and survival	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Barringtonia racemosa*	Operational	Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Bruguiera cylindrica*	Operational	Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Ficus elastica*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Calophyllum inophyllum*	Operational	Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus elastica*	Construction	Competition from exotic species	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus elastica*	Construction	Impediment to seedling recruitment	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus elastica*	Construction	Decline in plant health and survival	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Cerbera odollam*	Operational	Mortality	Medium	Low	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Ceriops zippeliana*	Operational	Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus heteropleura*	Construction	Competition from exotic species	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Ficus heteropleura*	Construction	Decline in plant health and survival	High	Negligible	Very Low	Possible	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Ficus heteropleura*	Construction	Impediment to seedling recruitment	High	Low	Low	Less likely	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Direct	*Dolichandrone spathacea*	Operational	Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Elaeis guineensis*	Operational	Mortality	Low	Low	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Ficus heteropleura*	Construction	Injury/Mortality	High	Low	Low	Possible	Minor	No change as land clearance is irreversible.			Minor
Plants	Direct	*Excoecaria agallocha*	Operational	Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Ficus microcarpa*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Ficus benjamina*	Operational	Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus microcarpa*	Construction	Competition from exotic species	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus microcarpa*	Construction	Impediment to seedling recruitment	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus microcarpa*	Construction	Decline in plant health and survival	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Ficus elastica*	Operational	Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Ficus heteropleura*	Operational	Mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus punctata*	Construction	Competition from exotic species	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Ficus punctata*	Construction	Decline in plant health and survival	High	Negligible	Very Low	Possible	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Ficus punctata*	Construction	Impediment to seedling recruitment	High	Low	Low	Less likely	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Direct	*Ficus microcarpa*	Operational	Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Ficus punctata*	Operational	Mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Ficus punctata*	Construction	Injury/Mortality	High	Low	Low	Possible	Minor	No change as land clearance is irreversible.			Minor
Plants	Direct	*Ficus religiosa*	Operational	Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Ficus religiosa*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Ficus variegata*	Operational	Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus religiosa*	Construction	Competition from exotic species	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus religiosa*	Construction	Impediment to seedling recruitment	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus religiosa*	Construction	Decline in plant health and survival	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Finlaysonia obovata*	Operational	Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Halophila beccari*	Operational	Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Ficus variegata*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Hibiscus tiliaceus*	Operational	Mortality	Medium	Low	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus variegata*	Construction	Competition from exotic species	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus variegata*	Construction	Impediment to seedling recruitment	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus variegata*	Construction	Decline in plant health and survival	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Leucaena leucocephala*	Operational	Mortality	Low	Low	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Lumnitzera littorea*	Operational	Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Finlaysonia obovata*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible

Receptor Type	Type	Receptor	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Plants	Direct	*Lumnitzera racemosa*	Operational	Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Finlaysonia obovata*	Construction	Competition from exotic species	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Mangifera indica*	Operational	Mortality	Low	Low	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Finlaysonia obovata*	Construction	Impediment to seedling recruitment	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Finlaysonia obovata*	Construction	Decline in plant health and survival	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Nypa fruticans*	Operational	Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Halophila beccari*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Palaquium obovatum*	Operational	Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Halophila beccari*	Construction	Competition from exotic species	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Halophila beccari*	Construction	Impediment to seedling recruitment	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Halophila beccari*	Construction	Decline in plant health and survival	High	Negligible	Very Low	Less likely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Rhizophora apiculata*	Operational	Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Samanea saman*	Operational	Mortality	Medium	Negligible	Imperceptible	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Hibiscus tiliaceus*	Construction	Impediment to seedling recruitment	Medium	Low	Very Low	Less likely	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Hibiscus tiliaceus*	Construction	Decline in plant health and survival	Medium	Low	Very Low	Less likely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Scurrula ferruginea*	Operational	Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Hibiscus tiliaceus*	Construction	Injury/Mortality	Medium	Negligible	Imperceptible	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Hibiscus tiliaceus*	Construction	Competition from exotic species	Medium	Low	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Sonneratia alba*	Operational	Mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Leucaena leucocephala*	Construction	Impediment to seedling recruitment	Low	Low	Very Low	Less likely	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Leucaena leucocephala*	Construction	Decline in plant health and survival	Low	Low	Very Low	Possible	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Direct	*Sonneratia caseolaris*	Operational	Mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Spathodea campanulata*	Operational	Mortality	Low	Low	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Leucaena leucocephala*	Construction	Competition from exotic species	Low	Low	Very Low	Less likely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Syzygium polyanthum*	Operational	Mortality	Medium	Medium	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Leucaena leucocephala*	Construction	Injury/Mortality	Low	Low	Very Low	Certain	Minor	No change as land clearance is irreversible.			Minor
Plants	Direct	*Terminalia catappa*	Operational	Mortality	Medium	Low	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Xylocarpus granatum*	Operational	Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Lumnitzera littorea*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Lumnitzera littorea*	Construction	Competition from exotic species	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Lumnitzera littorea*	Construction	Impediment to seedling recruitment	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Lumnitzera littorea*	Construction	Decline in plant health and survival	High	Negligible	Very Low	Less likely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Finlaysonia obovata*	Operational	Poaching	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Sonneratia caseolaris*	Operational	Poaching	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Acanthus ebracteatus*	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Lumnitzera racemosa*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Lumnitzera racemosa*	Construction	Competition from exotic species	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Lumnitzera racemosa*	Construction	Impediment to seedling recruitment	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Lumnitzera racemosa*	Construction	Decline in plant health and survival	High	Negligible	Very Low	Less likely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Acanthus ilicifolius*	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Mangifera indica*	Construction	Impediment to seedling recruitment	Low	Low	Very Low	Less likely	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Acanthus sp.*	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Mangifera indica*	Construction	Decline in plant health and survival	Low	Low	Very Low	Less likely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Avicennia alba*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Mangifera indica*	Construction	Injury/Mortality	Low	Negligible	Imperceptible	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Mangifera indica*	Construction	Competition from exotic species	Low	Low	Very Low	Less likely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Avicennia officinalis*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Avicennia rumphiana*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Bambusa heterostachya*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Nypa fruticans*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Nypa fruticans*	Construction	Competition from exotic species	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Nypa fruticans*	Construction	Impediment to seedling recruitment	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible

Receptor Type	Type	Receptor	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Plants	Indirect	*Nypa fruticans*	Construction	Decline in plant health and survival	High	Negligible	Very Low	Less likely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Barringtonia racemosa*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Bruguiera cylindrica*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Calophyllum inophyllum*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Palaquium obovatum*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Palaquium obovatum*	Construction	Competition from exotic species	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Palaquium obovatum*	Construction	Impediment to seedling recruitment	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Palaquium obovatum*	Construction	Decline in plant health and survival	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Cerbera odollam*	Operational	Poaching	Medium	Negligible	Imperceptible	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ceriops zippeliana*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Dolichandrone spathacea*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Rhizophora apiculata*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Rhizophora apiculata*	Construction	Competition from exotic species	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Rhizophora apiculata*	Construction	Impediment to seedling recruitment	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Rhizophora apiculata*	Construction	Decline in plant health and survival	High	Negligible	Very Low	Less likely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Elaeis guineensis*	Operational	Poaching	Low	Negligible	Imperceptible	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Excoecaria agallocha*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus benjamina*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Samanea saman*	Construction	Competition from exotic species	Medium	Negligible	Imperceptible	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Samanea saman*	Construction	Impediment to seedling recruitment	Medium	Negligible	Imperceptible	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Samanea saman*	Construction	Decline in plant health and survival	Medium	Negligible	Imperceptible	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Samanea saman*	Construction	Injury/Mortality	Medium	Low	Very Low	Certain	Minor	No change as land clearance is irreversible.			Minor
Plants	Indirect	*Ficus elastica*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus heteropleura*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus microcarpa*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Scurrula ferruginea*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Scurrula ferruginea*	Construction	Competition from exotic species	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Scurrula ferruginea*	Construction	Impediment to seedling recruitment	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Scurrula ferruginea*	Construction	Decline in plant health and survival	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus punctata*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Sonneratia alba*	Construction	Decline in plant health and survival	High	Low	Low	Less likely	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Sonneratia alba*	Construction	Impediment to seedling recruitment	High	Low	Low	Less likely	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Ficus religiosa*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Ficus variegata*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Sonneratia alba*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Sonneratia alba*	Construction	Competition from exotic species	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Halophila beccari*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Sonneratia caseolaris*	Construction	Injury/Mortality	High	Negligible	Very Low	Possible	Minor	Negligible	Very Low	Less likely	Negligible
Plants	Indirect	*Sonneratia caseolaris*	Construction	Decline in plant health and survival	High	Low	Low	Less likely	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Sonneratia caseolaris*	Construction	Impediment to seedling recruitment	High	Low	Low	Less likely	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Hibiscus tiliaceus*	Operational	Poaching	Medium	Negligible	Imperceptible	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Leucaena leucocephala*	Operational	Poaching	Low	Negligible	Imperceptible	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Lumnitzera littorea*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Sonneratia caseolaris*	Construction	Competition from exotic species	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Spathodea campanulata*	Construction	Competition from exotic species	Low	Low	Very Low	Possible	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Spathodea campanulata*	Construction	Decline in plant health and survival	Low	Low	Very Low	Possible	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Spathodea campanulata*	Construction	Impediment to seedling recruitment	Low	Low	Very Low	Less likely	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Lumnitzera racemosa*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Mangifera indica*	Operational	Poaching	Low	Negligible	Imperceptible	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Nypa fruticans*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Spathodea campanulata*	Construction	Injury/Mortality	Low	Low	Very Low	Certain	Minor	No change as land clearance is irreversible.			Minor
Plants	Indirect	*Palaquium obovatum*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible

Receptor Type	Type	Receptor	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Plants	Indirect	*Syzygium polyanthum*	Construction	Competition from exotic species	Medium	Medium	Low	Less likely	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Syzygium polyanthum*	Construction	Decline in plant health and survival	Medium	Medium	Low	Less likely	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Syzygium polyanthum*	Construction	Impediment to seedling recruitment	Medium	Medium	Low	Less likely	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Rhizophora apiculata*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Syzygium polyanthum*	Construction	Injury/Mortality	Medium	Negligible	Imperceptible	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Samanea saman*	Operational	Poaching	Medium	Negligible	Imperceptible	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Scurrula ferruginea*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Terminalia catappa*	Construction	Competition from exotic species	Medium	Low	Very Low	Possible	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Terminalia catappa*	Construction	Decline in plant health and survival	Medium	Low	Very Low	Possible	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Terminalia catappa*	Construction	Impediment to seedling recruitment	Medium	Low	Very Low	Less likely	Minor	No change as likelihood and impact is assessed to			Minor
Plants	Indirect	*Sonneratia alba*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Terminalia catappa*	Construction	Injury/Mortality	Medium	Negligible	Imperceptible	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Spathodea campanulata*	Operational	Poaching	Low	Negligible	Imperceptible	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Syzygium polyanthum*	Operational	Poaching	Medium	Negligible	Imperceptible	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Terminalia catappa*	Operational	Poaching	Medium	Negligible	Imperceptible	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Direct	*Xylocarpus granatum*	Construction	Injury/Mortality	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Xylocarpus granatum*	Construction	Impediment to seedling recruitment	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Xylocarpus granatum*	Construction	Competition from exotic species	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible
Plants	Indirect	*Xylocarpus granatum*	Construction	Decline in plant health and survival	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Bat	*Eonycteris spelaea*	Cave nectar bat	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bat	*Tylonycteris fulvida*	Lesser bamboo bat	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bat	*Tylonycteris malayana*	Greater bamboo bat	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bat	*Macroglossus minimus*	Lesser long-tongued nectar bat	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Astictopterus jama jama*	Forest hopper	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Caltoris malaya*	Malayan swift	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Catopyrops ancyra*	Ancyra blue	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Eurema brigitta senna*	No brand grass yellow	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Jamides alecto ageladas*	Metallic caerulean	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba angusta kerriana*	White fourline blue	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Butterfly	*Nacaduba kurava nemana*	Transparent sixline blue	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba pactolus odon*	Large fourline blue	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba sanaya elioti*	Jewel fourline blue	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Pachliopta aristolochiae asteris*	Common rose	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Pelopidas agna agna*	Bengal swift	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Troides helena cerberus*	Common birdwing	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Athanas japonicus*	N.A	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Athanas polymorphus*	N.A	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Ilyoplax delsmani*	N.A	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops amnicus*	N.A	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Decapod	*Potamalpheops johnsoni*	N.A	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops tigger*	N.A	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Salmoneus singaporensis*	N.A	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Sarmatium germaini*	N.A	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Uca rosea*	Rosy fiddler crab	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Wolffogebia phuketensis*	N.A	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Thalassina anomala*	N.A	Yes*	Construction	Accidental injury or mortality	High	High	High	Possible	Moderate	High	High	Less likely	Minor
Decapod	*Thalassina gracilis*	N.A	Yes*	Construction	Accidental injury or	High	High	High	Possible	Moderate	High	High	Less likely	Minor
Fish	*Himantura uarnak*	Honeycomb ray	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Horsehose crab	*Carcinoscorpius rotundicauda*	Mangrove horseshoe crab	Yes	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Non-volant mammal	*Macaca fascicularis*	Long-tailed macaque	No	Construction	Accidental injury or mortality	High	High	High	Possible	Moderate	High	High	Less likely	Minor
Non-volant mammal	*Manis javanica*	Sunda pangolin	No	Construction	Accidental injury or mortality	High	High	High	Possible	Moderate	High	High	Less likely	Minor

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Mollusc	*Cerithium traillii*	Traill's cerith	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Clithon oualaniense*	N.A	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Murex trapa*	Rare-spinned murex	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Nerita planospira*	Flat-spire nerite	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Pinna bicolor*	Two-colloured fan shell	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Pinna incurva*	Fan mussel	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Non-volant mammal	*Lutrogale perspicillata*	Smooth otter	Yes	Construction	Accidental injury or mortality	High	High	High	Possible	Moderate	High	High	Less likely	Minor
Odonata	*Agriocnemis pygmaea*	Wandering wisp	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Anax panybeus*	Arrow emperor	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Chalybiothemis fluviatilis*	Green-eyed percher	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Odonata	*Gynacantha basiguttata*	Spoon-tailed duskhawker	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Gynacantha bayadera*	Small duskhawker	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Mortonagrion arthuri*	Arthur's midget	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Reptile	*Crocodylus porosus*	Estuarine crocodile	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Aquila heliaca*	Eastern imperial eagle	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Aquila nipalensis*	Steppe eagle	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Clanga clanga*	Greater spotted eagle	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Haliaeetus ichthyaetus*	Grey-headed fish eagle	Yes	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Nisaetus cirrhatus*	Changeable hawk-eagle	Yes	Construction	Accidental injury or mortality	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Spilornis cheela*	Crested serpent eagle	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

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Bird	*Acrocephalus orientalis*	Oriental reed warbler	Yes	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Alcedo atthis*	Common kingfisher	Yes	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Alcedo meninting*	Blue-eared kingfisher	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Halcyon coromanda*	Ruddy kingfisher	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Halcyon pileata*	Black-capped kingfisher	Yes	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ardea alba*	Great egret	Yes	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ardea purpurea*	Purple heron	Yes	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ardea sumatrana*	Great-billed heron	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Egretta eulophotes*	Chinese egret	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ixobrychus sinensis*	Yellow bittern	Yes	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

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Bird	*Nycticorax nycticorax*	Black-crowned night heron	Yes	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Leptoptilos javanicus*	Lesser adjutant	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Corvus macrorhynchos*	Large-billed crow	Yes	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Chrysococcyx xanthorhynchus*	Violet cuckoo	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Surniculus lugubris*	Square-tailed drongo-cuckoo	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Lonchura striata*	White-rumped munia	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Lanius cristatus*	Brown shrike	Yes	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Copsychus saularis*	Oriental magpie-robin	Yes	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Cyornis brunneatus*	Brown-chested jungle flycatcher	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Pitta megarhyncha*	Mangrove pitta	No	Construction	Accidental injury or mortality	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

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Bird	*Ploceus philippinus*	Baya weaver	Yes	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Psittacula longicauda*	Long-tailed parakeet	Yes	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Pycnonotus zeylanicus*	Straw-headed bulbul	Yes	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Actitis hypoleucos*	Common sandpiper	Yes	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ketupa ketupu*	Buffy fish owl	No	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Strix seloputo*	Spotted wood owl	Yes	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Zosterops simplex*	Swinhoe's white-eye	Yes	Construction	Accidental injury or mortality	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bat	*Eonycteris spelaea*	Cave nectar bat	No	Construction	Human disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bat	*Tylonycteris fulvida*	Lesser bamboo bat	No	Construction	Human disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bat	*Tylonycteris malayana*	Greater bamboo bat	No	Construction	Human disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Bat	*Macroglossus minimus*	Lesser long-tongued nectar bat	No	Construction	Human disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Astictopterus jama jama*	Forest hopper	No	Construction	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Caltoris malaya*	Malayan swift	No	Construction	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Catopyrops ancyra*	Ancyra blue	No	Construction	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Eurema brigitta senna*	No brand grass yellow	No	Construction	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Jamides alecto ageladas*	Metallic caerulean	No	Construction	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba angusta kerriana*	White fourline blue	No	Construction	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba kurava nemana*	Transparent sixline blue	No	Construction	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba pactolus odon*	Large fourline blue	No	Construction	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba sanaya elioti*	Jewel fourline blue	No	Construction	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Butterfly	*Pachliopta aristolochiae asteris*	Common rose	No	Construction	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Pelopidas agna agna*	Bengal swift	No	Construction	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Troides helena cerberus*	Common birdwing	No	Construction	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Athanas japonicus*	N.A	No	Construction	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Athanas polymorphus*	N.A	No	Construction	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Ilyoplax delsmani*	N.A	No	Construction	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops amnicus*	N.A	No	Construction	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops johnsoni*	N.A	No	Construction	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops tigger*	N.A	No	Construction	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Salmoneus singaporensis*	N.A	No	Construction	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Decapod	*Sarmatium germaini*	N.A	No	Construction	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Uca rosea*	Rosy fiddler crab	No	Construction	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Wolffogebia phuketensis*	N.A	No	Construction	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Thalassina anomala*	N.A	Yes*	Construction	Human disturbances	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Decapod	*Thalassina gracilis*	N.A	Yes*	Construction	Human disturbances	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Fish	*Himantura uarnak*	Honeycomb ray	No	Construction	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Horsehose crab	*Carcinoscorpius rotundicauda*	Mangrove horseshoe crab	Yes	Construction	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Non-volant mammal	*Macaca fascicularis*	Long-tailed macaque	No	Construction	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Non-volant mammal	*Manis javanica*	Sunda pangolin	No	Construction	Human disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Mollusc	*Cerithium traillii*	Traill's cerith	No	Construction	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Mollusc	*Clithon oualaniense*	N.A	No	Construction	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Murex trapa*	Rare-spinned murex	No	Construction	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Nerita planospira*	Flat-spire nerite	No	Construction	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Pinna bicolor*	Two-colloured fan shell	No	Construction	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Pinna incurva*	Fan mussel	No	Construction	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Non-volant mammal	*Lutrogale perspicillata*	Smooth otter	Yes	Construction	Human disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Odonata	*Agriocnemis pygmaea*	Wandering wisp	No	Construction	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Anax panybeus*	Arrow emperor	No	Construction	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Chalybiothemis fluviatilis*	Green-eyed percher	No	Construction	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Gynacantha basiguttata*	Spoon-tailed duskhawker	No	Construction	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Odonata	*Gynacantha bayadera*	Small duskhawker	No	Construction	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Mortonagrion arthuri*	Arthur's midget	No	Construction	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Reptile	*Crocodylus porosus*	Estuarine crocodile	No	Construction	Human disturbances	High	Negligible	Very Low	Less likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Aquila heliaca*	Eastern imperial eagle	No	Construction	Human disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Aquila nipalensis*	Steppe eagle	No	Construction	Human disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Clanga clanga*	Greater spotted eagle	No	Construction	Human disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Haliaeetus ichthyaetus*	Grey-headed fish eagle	Yes	Construction	Human disturbances	High	Low	Low	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Nisaetus cirrhatus*	Changeable hawk-eagle	Yes	Construction	Human disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Spilornis cheela*	Crested serpent eagle	No	Construction	Human disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Acrocephalus orientalis*	Oriental reed warbler	Yes	Construction	Human disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Bird	*Alcedo atthis*	Common kingfisher	Yes	Construction	Human disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Alcedo meninting*	Blue-eared kingfisher	No	Construction	Human disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Halcyon coromanda*	Ruddy kingfisher	No	Construction	Human disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Halcyon pileata*	Black-capped kingfisher	Yes	Construction	Human disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Ardea alba*	Great egret	Yes	Construction	Human disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Ardea purpurea*	Purple heron	Yes	Construction	Human disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Ardea sumatrana*	Great-billed heron	No	Construction	Human disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Egretta eulophotes*	Chinese egret	No	Construction	Human disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Ixobrychus sinensis*	Yellow bittern	Yes	Construction	Human disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Nycticorax nycticorax*	Black-crowned night heron	Yes	Construction	Human disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Bird	*Leptoptilos javanicus*	Lesser adjutant	No	Construction	Human disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Corvus macrorhynchos*	Large-billed crow	Yes	Construction	Human disturbances	High	Low	Low	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Chrysococcyx xanthorhynchus*	Violet cuckoo	No	Construction	Human disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Surniculus lugubris*	Square-tailed drongo-cuckoo	No	Construction	Human disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Lonchura striata*	White-rumped munia	No	Construction	Human disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Lanius cristatus*	Brown shrike	Yes	Construction	Human disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Copsychus saularis*	Oriental magpie-robin	Yes	Construction	Human disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Cyornis brunneatus*	Brown-chested jungle flycatcher	No	Construction	Human disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Pitta megarhyncha*	Mangrove pitta	No	Construction	Human disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Ploceus philippinus*	Baya weaver	Yes	Construction	Human disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Bird	*Psittacula longicauda*	Long-tailed parakeet	Yes	Construction	Human disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Pycnonotus zeylanicus*	Straw-headed bulbul	Yes	Construction	Human disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Actitis hypoleucos*	Common sandpiper	Yes	Construction	Human disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Ketupa ketupu*	Buffy fish owl	No	Construction	Human disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Strix seloputo*	Spotted wood owl	Yes	Construction	Human disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Zosterops simplex*	Swinhoe's white-eye	Yes	Construction	Human disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bat	*Eonycteris spelaea*	Cave nectar bat	No	Construction	Human-wildlife conflict	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bat	*Tylonycteris fulvida*	Lesser bamboo bat	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bat	*Tylonycteris malayana*	Greater bamboo bat	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bat	*Macroglossus minimus*	Lesser long-tongued nectar bat	No	Construction	Human-wildlife conflict	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Butterfly	*Astictopterus jama jama*	Forest hopper	No	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Caltoris malaya*	Malayan swift	No	Construction	Human-wildlife conflict	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Catopyrops ancyra*	Ancyra blue	No	Construction	Human-wildlife conflict	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Eurema brigitta senna*	No brand grass yellow	No	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Jamides alecto ageladas*	Metallic caerulean	No	Construction	Human-wildlife conflict	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba angusta kerriana*	White fourline blue	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba kurava nemana*	Transparent sixline blue	No	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba pactolus odon*	Large fourline blue	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba sanaya elioti*	Jewel fourline blue	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Pachliopta aristolochiae asteris*	Common rose	No	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

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Butterfly	*Pelopidas agna agna*	Bengal swift	No	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Troides helena cerberus*	Common birdwing	No	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Athanas japonicus*	N.A	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Athanas polymorphus*	N.A	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Ilyoplax delsmani*	N.A	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops amnicus*	N.A	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops johnsoni*	N.A	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops tigger*	N.A	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Salmoneus singaporensis*	N.A	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Sarmatium germaini*	N.A	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

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Decapod	*Uca rosea*	Rosy fiddler crab	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Wolffogebia phuketensis*	N.A	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Thalassina anomala*	N.A	Yes*	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Thalassina gracilis*	N.A	Yes*	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Fish	*Himantura uarnak*	Honeycomb ray	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Horsehose crab	*Carcinoscorpius rotundicauda*	Mangrove horseshoe crab	Yes	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Non-volant mammal	*Macaca fascicularis*	Long-tailed macaque	No	Construction	Human-wildlife conflict	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Non-volant mammal	*Manis javanica*	Sunda pangolin	No	Construction	Human-wildlife conflict	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Cerithium traillii*	Traill's cerith	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Clithon oualaniense*	N.A	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
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Mollusc	*Nerita planospira*	Flat-spire nerite	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Pinna bicolor*	Two-colloured fan shell	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Pinna incurva*	Fan mussel	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Non-volant mammal	*Lutrogale perspicillata*	Smooth otter	Yes	Construction	Human-wildlife conflict	High	Medium	Medium	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Odonata	*Agriocnemis pygmaea*	Wandering wisp	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Anax panybeus*	Arrow emperor	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Chalybiothemis fluviatilis*	Green-eyed percher	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Gynacantha basiguttata*	Spoon-tailed duskhawker	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Gynacantha bayadera*	Small duskhawker	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Odonata	*Mortonagrion arthuri*	Arthur's midget	No	Construction	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Reptile	*Crocodylus porosus*	Estuarine crocodile	No	Construction	Human-wildlife conflict	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Aquila heliaca*	Eastern imperial eagle	No	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Aquila nipalensis*	Steppe eagle	No	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Clanga clanga*	Greater spotted eagle	No	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Haliaeetus ichthyaetus*	Grey-headed fish eagle	Yes	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Nisaetus cirrhatus*	Changeable hawk-eagle	Yes	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Spilornis cheela*	Crested serpent eagle	No	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Acrocephalus orientalis*	Oriental reed warbler	Yes	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Alcedo atthis*	Common kingfisher	Yes	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

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Bird	*Halcyon coromanda*	Ruddy kingfisher	No	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Halcyon pileata*	Black-capped kingfisher	Yes	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ardea alba*	Great egret	Yes	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ardea purpurea*	Purple heron	Yes	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ardea sumatrana*	Great-billed heron	No	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Egretta eulophotes*	Chinese egret	No	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ixobrychus sinensis*	Yellow bittern	Yes	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Nycticorax nycticorax*	Black-crowned night heron	Yes	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Leptoptilos javanicus*	Lesser adjutant	No	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Bird	*Corvus macrorhynchos*	Large-billed crow	Yes	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Chrysococcyx xanthorhynchus*	Violet cuckoo	No	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Surniculus lugubris*	Square-tailed drongo-cuckoo	No	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Lonchura striata*	White-rumped munia	No	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Lanius cristatus*	Brown shrike	Yes	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Copsychus saularis*	Oriental magpie-robin	Yes	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Cyornis brunneatus*	Brown-chested jungle flycatcher	No	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Pitta megarhyncha*	Mangrove pitta	No	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ploceus philippinus*	Baya weaver	Yes	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Psittacula longicauda*	Long-tailed parakeet	Yes	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Bird	*Pycnonotus zeylanicus*	Straw-headed bulbul	Yes	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Actitis hypoleucos*	Common sandpiper	Yes	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ketupa ketupu*	Buffy fish owl	No	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Strix seloputo*	Spotted wood owl	Yes	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Zosterops simplex*	Swinhoe's white-eye	Yes	Construction	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bat	*Eonycteris spelaea*	Cave nectar bat	No	Construction	Light disturbances	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bat	*Tylonycteris fulvida*	Lesser bamboo bat	No	Construction	Light disturbances	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bat	*Tylonycteris malayana*	Greater bamboo bat	No	Construction	Light disturbances	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bat	*Macroglossus minimus*	Lesser long-tongued nectar bat	No	Construction	Light disturbances	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Astictopterus jama jama*	Forest hopper	No	Construction	Light disturbances	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Butterfly	*Caltoris malaya*	Malayan swift	No	Construction	Light disturbances	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Catopyrops ancyra*	Ancyra blue	No	Construction	Light disturbances	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Eurema brigitta senna*	No brand grass yellow	No	Construction	Light disturbances	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Jamides alecto ageladas*	Metallic caerulean	No	Construction	Light disturbances	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Nacaduba angusta kerriana*	White fourline blue	No	Construction	Light disturbances	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Nacaduba kurava nemana*	Transparent sixline blue	No	Construction	Light disturbances	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Nacaduba pactolus odon*	Large fourline blue	No	Construction	Light disturbances	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Nacaduba sanaya elioti*	Jewel fourline blue	No	Construction	Light disturbances	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Pachliopta aristolochiae asteris*	Common rose	No	Construction	Light disturbances	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Pelopidas agna agna*	Bengal swift	No	Construction	Light disturbances	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Butterfly	*Troides helena cerberus*	Common birdwing	No	Construction	Light disturbances	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Decapod	*Athanas japonicus*	N.A	No	Construction	Light disturbances	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Athanas polymorphus*	N.A	No	Construction	Light disturbances	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Ilyoplax delsmani*	N.A	No	Construction	Light disturbances	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops amnicus*	N.A	No	Construction	Light disturbances	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops johnsoni*	N.A	No	Construction	Light disturbances	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops tigger*	N.A	No	Construction	Light disturbances	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Salmoneus singaporensis*	N.A	No	Construction	Light disturbances	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Sarmatium germaini*	N.A	No	Construction	Light disturbances	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Uca rosea*	Rosy fiddler crab	No	Construction	Light disturbances	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Decapod	*Wolffogebia phuketensis*	N.A	No	Construction	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Thalassina anomala*	N.A	Yes*	Construction	Light disturbances	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Decapod	*Thalassina gracilis*	N.A	Yes*	Construction	Light disturbances	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Fish	*Himantura uarnak*	Honeycomb ray	No	Construction	Light disturbances	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Horsehose crab	*Carcinoscorpius rotundicauda*	Mangrove horseshoe crab	Yes	Construction	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Non-volant mammal	*Macaca fascicularis*	Long-tailed macaque	No	Construction	Light disturbances	High	Medium	Medium	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Non-volant mammal	*Manis javanica*	Sunda pangolin	No	Construction	Light disturbances	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Mollusc	*Cerithium traillii*	Traill's cerith	No	Construction	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Clithon oualaniense*	N.A	No	Construction	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Murex trapa*	Rare-spinned murex	No	Construction	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

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Mollusc	*Nerita planospira*	Flat-spire nerite	No	Construction	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Pinna bicolor*	Two-colloured fan shell	No	Construction	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Pinna incurva*	Fan mussel	No	Construction	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Non-volant mammal	*Lutrogale perspicillata*	Smooth otter	Yes	Construction	Light disturbances	High	Medium	Medium	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Odonata	*Agriocnemis pygmaea*	Wandering wisp	No	Construction	Light disturbances	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Odonata	*Anax panybeus*	Arrow emperor	No	Construction	Light disturbances	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Odonata	*Chalybiothemis fluviatilis*	Green-eyed percher	No	Construction	Light disturbances	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Odonata	*Gynacantha basiguttata*	Spoon-tailed duskhawker	No	Construction	Light disturbances	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Odonata	*Gynacantha bayadera*	Small duskhawker	No	Construction	Light disturbances	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Odonata	*Mortonagrion arthuri*	Arthur's midget	No	Construction	Light disturbances	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor

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Reptile	*Crocodylus porosus*	Estuarine crocodile	No	Construction	Light disturbances	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Aquila heliaca*	Eastern imperial eagle	No	Construction	Light disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Aquila nipalensis*	Steppe eagle	No	Construction	Light disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Clanga clanga*	Greater spotted eagle	No	Construction	Light disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Haliaeetus ichthyaetus*	Grey-headed fish eagle	Yes	Construction	Light disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Nisaetus cirrhatus*	Changeable hawk-eagle	Yes	Construction	Light disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Spilornis cheela*	Crested serpent eagle	No	Construction	Light disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Acrocephalus orientalis*	Oriental reed warbler	Yes	Construction	Light disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Alcedo atthis*	Common kingfisher	Yes	Construction	Light disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Alcedo meninting*	Blue-eared kingfisher	No	Construction	Light disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor

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Bird	*Halcyon coromanda*	Ruddy kingfisher	No	Construction	Light disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Halcyon pileata*	Black-capped kingfisher	Yes	Construction	Light disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Ardea alba*	Great egret	Yes	Construction	Light disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Ardea purpurea*	Purple heron	Yes	Construction	Light disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Ardea sumatrana*	Great-billed heron	No	Construction	Light disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Egretta eulophotes*	Chinese egret	No	Construction	Light disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Ixobrychus sinensis*	Yellow bittern	Yes	Construction	Light disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Nycticorax nycticorax*	Black-crowned night heron	Yes	Construction	Light disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Leptoptilos javanicus*	Lesser adjutant	No	Construction	Light disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Corvus macrorhynchos*	Large-billed crow	Yes	Construction	Light disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor

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Bird	*Chrysococcyx xanthorhynchus*	Violet cuckoo	No	Construction	Light disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Surniculus lugubris*	Square-tailed drongo-cuckoo	No	Construction	Light disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Lonchura striata*	White-rumped munia	No	Construction	Light disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Lanius cristatus*	Brown shrike	Yes	Construction	Light disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Copsychus saularis*	Oriental magpie-robin	Yes	Construction	Light disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Cyornis brunneatus*	Brown-chested jungle flycatcher	No	Construction	Light disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Pitta megarhyncha*	Mangrove pitta	No	Construction	Light disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Ploceus philippinus*	Baya weaver	Yes	Construction	Light disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Psittacula longicauda*	Long-tailed parakeet	Yes	Construction	Light disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Pycnonotus zeylanicus*	Straw-headed bulbul	Yes	Construction	Light disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Bird	*Actitis hypoleucos*	Common sandpiper	Yes	Construction	Light disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Ketupa ketupu*	Buffy fish owl	No	Construction	Light disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Strix seloputo*	Spotted wood owl	Yes	Construction	Light disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Zosterops simplex*	Swinhoe's white-eye	Yes	Construction	Light disturbances	High	Medium	Medium	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bat	*Eonycteris spelaea*	Cave nectar bat	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bat	*Tylonycteris fulvida*	Lesser bamboo bat	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bat	*Tylonycteris malayana*	Greater bamboo bat	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bat	*Macroglossus minimus*	Lesser long-tongued nectar bat	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Astictopterus jama jama*	Forest hopper	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Caltoris malaya*	Malayan swift	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

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Butterfly	*Catopyrops ancyra*	Ancyra blue	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Eurema brigitta senna*	No brand grass yellow	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Jamides alecto ageladas*	Metallic caerulean	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba angusta kerriana*	White fourline blue	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba kurava nemana*	Transparent sixline blue	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba pactolus odon*	Large fourline blue	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba sanaya elioti*	Jewel fourline blue	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Pachliopta aristolochiae asteris*	Common rose	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Pelopidas agna agna*	Bengal swift	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Troides helena cerberus*	Common birdwing	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Decapod	*Athanas japonicus*	N.A	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Athanas polymorphus*	N.A	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Ilyoplax delsmani*	N.A	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops amnicus*	N.A	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops johnsoni*	N.A	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops tigger*	N.A	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Salmoneus singaporensis*	N.A	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Sarmatium germaini*	N.A	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Uca rosea*	Rosy fiddler crab	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Wolffogebia phuketensis*	N.A	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Decapod	*Thalassina anomala*	N.A	Yes*	Construction	Loss of/reduction in habitats and food sources	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Decapod	*Thalassina gracilis*	N.A	Yes*	Construction	Loss of/reduction in habitats and food sources	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Fish	*Himantura uarnak*	Honeycomb ray	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Horsehose crab	*Carcinoscorpius rotundicauda*	Mangrove horseshoe crab	Yes	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Cerithium traillii*	Traill's cerith	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Clithon oualaniense*	N.A	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Murex trapa*	Rare-spinned murex	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Nerita planospira*	Flat-spire nerite	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Pinna bicolor*	Two-colloured fan shell	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Pinna incurva*	Fan mussel	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Non-volant mammal	*Lutrogale perspicillata*	Smooth otter	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Non-volant mammal	*Macaca fascicularis*	Long-tailed macaque	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Non-volant mammal	*Manis javanica*	Sunda pangolin	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Agriocnemis pygmaea*	Wandering wisp	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Anax panybeus*	Arrow emperor	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Chalybiothemis fluviatilis*	Green-eyed percher	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Gynacantha basiguttata*	Spoon-tailed duskhawker	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Gynacantha bayadera*	Small duskhawker	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Mortonagrion arthuri*	Arthur's midget	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Reptile	*Crocodylus porosus*	Estuarine crocodile	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

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Bird	*Aquila heliaca*	Eastern imperial eagle	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Aquila nipalensis*	Steppe eagle	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Clanga clanga*	Greater spotted eagle	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Haliaeetus ichthyaetus*	Grey-headed fish eagle	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Nisaetus cirrhatus*	Changeable hawk-eagle	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Spilornis cheela*	Crested serpent eagle	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Acrocephalus orientalis*	Oriental reed warbler	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Alcedo atthis*	Common kingfisher	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Alcedo meninting*	Blue-eared kingfisher	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Halcyon coromanda*	Ruddy kingfisher	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor

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Bird	*Halcyon pileata*	Black-capped kingfisher	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Ardea alba*	Great egret	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Ardea purpurea*	Purple heron	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Ardea sumatrana*	Great-billed heron	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Egretta eulophotes*	Chinese egret	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Ixobrychus sinensis*	Yellow bittern	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Nycticorax nycticorax*	Black-crowned night heron	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Leptoptilos javanicus*	Lesser adjutant	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Corvus macrorhynchos*	Large-billed crow	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Chrysococcyx xanthorhynchus*	Violet cuckoo	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Bird	*Surniculus lugubris*	Square-tailed drongo-cuckoo	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Lonchura striata*	White-rumped munia	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Lanius cristatus*	Brown shrike	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Copsychus saularis*	Oriental magpie-robin	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Cyornis brunneatus*	Brown-chested jungle flycatcher	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Pitta megarhyncha*	Mangrove pitta	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Ploceus philippinus*	Baya weaver	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Psittacula longicauda*	Long-tailed parakeet	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Pycnonotus zeylanicus*	Straw-headed bulbul	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Actitis hypoleucos*	Common sandpiper	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor

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Bird	*Ketupa ketupu*	Buffy fish owl	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	Very Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Strix seloputo*	Spotted wood owl	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Zosterops simplex*	Swinhoe's white-eye	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bat	*Eonycteris spelaea*	Cave nectar bat	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Medium	Medium	Possible	Moderate	Medium	Medium	Less likely	Minor
Bat	*Tylonycteris fulvida*	Lesser bamboo bat	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Possible	Moderate	High	High	Less likely	Minor
Bat	*Tylonycteris malayana*	Greater bamboo bat	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Possible	Moderate	High	High	Less likely	Minor
Bat	*Macroglossus minimus*	Lesser long-tongued nectar bat	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Possible	Moderate	High	High	Less likely	Minor
Butterfly	*Astictopterus jama jama*	Forest hopper	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Caltoris malaya*	Malayan swift	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Medium	Medium	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Catopyrops ancyra*	Ancyra blue	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Eurema brigitta senna*	No brand grass yellow	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

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Butterfly	*Jamides alecto ageladas*	Metallic caerulean	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Nacaduba angusta kerriana*	White fourline blue	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Nacaduba kurava nemana*	Transparent sixline blue	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba pactolus odon*	Large fourline blue	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Nacaduba sanaya elioti*	Jewel fourline blue	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Pachliopta aristolochiae asteris*	Common rose	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Pelopidas agna agna*	Bengal swift	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Troides helena cerberus*	Common birdwing	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Athanas japonicus*	N.A	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Athanas polymorphus*	N.A	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

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Decapod	*Ilyoplax delsmani*	N.A	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops amnicus*	N.A	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops johnsoni*	N.A	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops tigger*	N.A	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Salmoneus singaporensis*	N.A	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Sarmatium germaini*	N.A	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Uca rosea*	Rosy fiddler crab	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Wolffogebia phuketensis*	N.A	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Thalassina anomala*	N.A	Yes*	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Thalassina gracilis*	N.A	Yes*	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

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Fish	*Himantura uarnak*	Honeycomb ray	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Horsehose crab	*Carcinoscorpius rotundicauda*	Mangrove horseshoe crab	Yes	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Cerithium traillii*	Traill's cerith	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Clithon oualaniense*	N.A	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Murex trapa*	Rare-spinned murex	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Nerita planospira*	Flat-spire nerite	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Pinna bicolor*	Two-colloured fan shell	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Pinna incurva*	Fan mussel	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Non-volant mammal	*Lutrogale perspicillata*	Smooth otter	Yes	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Negligible	Very Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Non-volant mammal	*Macaca fascicularis*	Long-tailed macaque	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Negligible	Very Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor

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Odonata	*Agriocnemis pygmaea*	Wandering wisp	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Odonata	*Anax panybeus*	Arrow emperor	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Odonata	*Chalybiothemis fluviatilis*	Green-eyed percher	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Odonata	*Gynacantha basiguttata*	Spoon-tailed duskhawker	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Odonata	*Gynacantha bayadera*	Small duskhawker	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Odonata	*Mortonagrion arthuri*	Arthur's midget	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Reptile	*Crocodylus porosus*	Estuarine crocodile	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Aquila heliaca*	Eastern imperial eagle	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Negligible	Very Low	Possible	Minor	Negligible	Very Low	Less likely	Negligible
Bird	*Aquila nipalensis*	Steppe eagle	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Negligible	Very Low	Possible	Minor	Negligible	Very Low	Less likely	Negligible
Bird	*Clanga clanga*	Greater spotted eagle	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Negligible	Very Low	Possible	Minor	Negligible	Very Low	Less likely	Negligible

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Bird	*Nisaetus cirrhatus*	Changeable hawk-eagle	Yes	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
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Bird	*Acrocephalus orientalis*	Oriental reed warbler	Yes	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Medium	Medium	Possible	Moderate	Medium	Medium	Less likely	Minor
Bird	*Alcedo atthis*	Common kingfisher	Yes	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Possible	Moderate	High	High	Less likely	Minor
Bird	*Alcedo meninting*	Blue-eared kingfisher	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Possible	Moderate	High	High	Less likely	Minor
Bird	*Halcyon coromanda*	Ruddy kingfisher	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Possible	Moderate	High	High	Less likely	Minor
Bird	*Halcyon pileata*	Black-capped kingfisher	Yes	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Possible	Moderate	High	High	Less likely	Minor
Bird	*Ardea alba*	Great egret	Yes	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Ardea purpurea*	Purple heron	Yes	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Ardea sumatrana*	Great-billed heron	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Medium	Medium	Possible	Moderate	Medium	Medium	Less likely	Minor
Bird	*Egretta eulophotes*	Chinese egret	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Negligible	Very Low	Possible	Minor	Negligible	Very Low	Less likely	Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Bird	*Ixobrychus sinensis*	Yellow bittern	Yes	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Nycticorax nycticorax*	Black-crowned night heron	Yes	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Medium	Medium	Possible	Moderate	Medium	Medium	Less likely	Minor
Bird	*Leptoptilos javanicus*	Lesser adjutant	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Negligible	Very Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Corvus macrorhynchos*	Large-billed crow	Yes	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Chrysococcyx xanthorhynchus*	Violet cuckoo	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Possible	Moderate	High	High	Less likely	Minor
Bird	*Surniculus lugubris*	Square-tailed drongo-cuckoo	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Possible	Moderate	High	High	Less likely	Minor
Bird	*Lonchura striata*	White-rumped munia	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Medium	Medium	Possible	Moderate	Medium	Medium	Less likely	Minor
Bird	*Lanius cristatus*	Brown shrike	Yes	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Medium	Medium	Possible	Moderate	Medium	Medium	Less likely	Minor
Bird	*Copsychus saularis*	Oriental magpie-robin	Yes	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Cyornis brunneatus*	Brown-chested jungle flycatcher	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Negligible	Very Low	Possible	Minor	Negligible	Very Low	Less likely	Negligible
Bird	*Pitta megarhyncha*	Mangrove pitta	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Possible	Moderate	High	High	Less likely	Minor
Bird	*Ploceus philippinus*	Baya weaver	Yes	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Medium	Medium	Possible	Moderate	Medium	Medium	Less likely	Minor
Bird	*Psittacula longicauda*	Long-tailed parakeet	Yes	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor

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Bird	*Pycnonotus zeylanicus*	Straw-headed bulbul	Yes	Construction	Loss/reduction of ecological connectivity for faunal movement	High	High	High	Possible	Moderate	High	High	Less likely	Minor
Bird	*Actitis hypoleucos*	Common sandpiper	Yes	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Ketupa ketupu*	Buffy fish owl	No	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Medium	Medium	Possible	Moderate	Medium	Medium	Less likely	Minor
Bird	*Strix seloputo*	Spotted wood owl	Yes	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Zosterops simplex*	Swinhoe's white-eye	Yes	Construction	Loss/reduction of ecological connectivity for faunal movement	High	Low	Low	Possible	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bat	*Eonycteris spelaea*	Cave nectar bat	No	Operational	Accidental injury or mortality	High	Medium	Medium	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bat	*Macroglossus minimus*	Lesser long-tongued nectar bat	No	Operational	Accidental injury or mortality	High	Medium	Medium	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bat	*Tylonycteris fulvida*	Lesser bamboo bat	No	Operational	Accidental injury or mortality	High	Medium	Medium	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bat	*Tylonycteris malayana*	Greater bamboo bat	No	Operational	Accidental injury or mortality	High	Medium	Medium	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Astictopterus jama jama*	Forest hopper	No	Operational	Accidental injury or mortality	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Butterfly	*Caltoris malaya*	Malayan swift	No	Operational	Accidental injury or mortality	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Catopyrops ancyra*	Ancyra blue	No	Operational	Accidental injury or mortality	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Eurema brigitta senna*	No brand grass yellow	No	Operational	Accidental injury or mortality	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Jamides alecto ageladas*	Metallic caerulean	No	Operational	Accidental injury or mortality	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Nacaduba angusta kerriana*	White fourline blue	No	Operational	Accidental injury or mortality	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Nacaduba kurava nemana*	Transparent sixline blue	No	Operational	Accidental injury or mortality	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Nacaduba pactolus odon*	Large fourline blue	No	Operational	Accidental injury or mortality	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Nacaduba sanaya elioti*	Jewel fourline blue	No	Operational	Accidental injury or mortality	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Pachliopta aristolochiae asteris*	Common rose	No	Operational	Accidental injury or mortality	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Pelopidas agna agna*	Bengal swift	No	Operational	Accidental injury or mortality	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Butterfly	*Troides helena cerberus*	Common birdwing	No	Operational	Accidental injury or mortality	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Decapod	*Athanas japonicus*	N.A	No	Operational	Accidental injury or mortality	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Athanas polymorphus*	N.A	No	Operational	Accidental injury or mortality	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Ilyoplax delsmani*	N.A	No	Operational	Accidental injury or mortality	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops amnicus*	N.A	No	Operational	Accidental injury or mortality	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops johnsoni*	N.A	No	Operational	Accidental injury or mortality	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops tigger*	N.A	No	Operational	Accidental injury or mortality	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Salmoneus singaporensis*	N.A	No	Operational	Accidental injury or mortality	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Sarmatium germaini*	N.A	No	Operational	Accidental injury or mortality	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Thalassina anomala*	N.A	Yes*	Operational	Accidental injury or mortality	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

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Decapod	*Thalassina gracilis*	N.A	Yes*	Operational	Accidental injury or mortality	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Uca rosea*	Rosy fiddler crab	No	Operational	Accidental injury or mortality	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Wolffogebia phuketensis*	N.A	No	Operational	Accidental injury or mortality	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Fish	*Himantura uarnak*	Honeycomb ray	No	Operational	Accidental injury or mortality	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Horsehose crab	*Carcinoscorpius rotundicauda*	Mangrove horseshoe crab	Yes	Operational	Accidental injury or mortality	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Cerithium traillii*	Traill's cerith	No	Operational	Accidental injury or mortality	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Clithon oualaniense*	N.A	No	Operational	Accidental injury or mortality	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Murex trapa*	Rare-spinned murex	No	Operational	Accidental injury or mortality	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Nerita planospira*	Flat-spire nerite	No	Operational	Accidental injury or mortality	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Pinna bicolor*	Two-colloured fan shell	No	Operational	Accidental injury or mortality	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

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Mollusc	*Pinna incurva*	Fan mussel	No	Operational	Accidental injury or mortality	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Non-volant mammal	*Lutrogale perspicillata*	Smooth otter	Yes	Operational	Accidental injury or mortality	High	Medium	Medium	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Non-volant mammal	*Macaca fascicularis*	Long-tailed macaque	No	Operational	Accidental injury or mortality	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Non-volant mammal	*Manis javanica*	Sunda pangolin	No	Operational	Accidental injury or mortality	High	Medium	Medium	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Odonata	*Agriocnemis pygmaea*	Wandering wisp	No	Operational	Accidental injury or mortality	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Odonata	*Anax panybeus*	Arrow emperor	No	Operational	Accidental injury or mortality	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Odonata	*Chalybiothemis fluviatilis*	Green-eyed percher	No	Operational	Accidental injury or mortality	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Odonata	*Gynacantha basiguttata*	Spoon-tailed duskhawker	No	Operational	Accidental injury or mortality	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Odonata	*Gynacantha bayadera*	Small duskhawker	No	Operational	Accidental injury or mortality	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Odonata	*Mortonagrion arthuri*	Arthur's midget	No	Operational	Accidental injury or mortality	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor

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Reptile	*Crocodylus porosus*	Estuarine crocodile	No	Operational	Accidental injury or mortality	High	Negligible	Very Low	Less Likely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bat	*Eonycteris spelaea*	Cave nectar bat	No	Operational	Human disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Aquila heliaca*	Eastern imperial eagle	No	Operational	Accidental injury or mortality	High	Medium	Medium	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Aquila nipalensis*	Steppe eagle	No	Operational	Accidental injury or mortality	High	Medium	Medium	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Clanga clanga*	Greater spotted eagle	No	Operational	Accidental injury or mortality	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Haliaeetus ichthyaetus*	Grey-headed fish eagle	Yes	Operational	Accidental injury or mortality	High	Medium	Medium	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Nisaetus cirrhatus*	Changeable hawk-eagle	Yes	Operational	Accidental injury or mortality	High	Medium	Medium	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Spilornis cheela*	Crested serpent eagle	No	Operational	Accidental injury or mortality	High	Medium	Medium	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Acrocephalus orientalis*	Oriental reed warbler	Yes	Operational	Accidental injury or mortality	High	Medium	Medium	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Alcedo atthis*	Common kingfisher	Yes	Operational	Accidental injury or mortality	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor

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Bird	*Alcedo meninting*	Blue-eared kingfisher	No	Operational	Accidental injury or mortality	High	Medium	Medium	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Halcyon coromanda*	Ruddy kingfisher	No	Operational	Accidental injury or mortality	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Halcyon pileata*	Black-capped kingfisher	Yes	Operational	Accidental injury or mortality	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Ardea alba*	Great egret	Yes	Operational	Accidental injury or mortality	High	Medium	Medium	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Ardea purpurea*	Purple heron	Yes	Operational	Accidental injury or mortality	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Ardea sumatrana*	Great-billed heron	No	Operational	Accidental injury or mortality	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Egretta eulophotes*	Chinese egret	No	Operational	Accidental injury or mortality	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Ixobrychus sinensis*	Yellow bittern	Yes	Operational	Accidental injury or mortality	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Nycticorax nycticorax*	Black-crowned night heron	Yes	Operational	Accidental injury or mortality	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Leptoptilos javanicus*	Lesser adjutant	No	Operational	Accidental injury or mortality	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor

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Bird	*Corvus macrorhynchos*	Large-billed crow	Yes	Operational	Accidental injury or mortality	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Chrysococcyx xanthorhynchus*	Violet cuckoo	No	Operational	Accidental injury or mortality	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Surniculus lugubris*	Square-tailed drongo-cuckoo	No	Operational	Accidental injury or mortality	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Lonchura striata*	White-rumped munia	No	Operational	Accidental injury or mortality	High	Medium	Medium	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Lanius cristatus*	Brown shrike	Yes	Operational	Accidental injury or mortality	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Copsychus saularis*	Oriental magpie-robin	Yes	Operational	Accidental injury or mortality	High	Medium	Medium	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Cyornis brunneatus*	Brown-chested jungle flycatcher	No	Operational	Accidental injury or mortality	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Pitta megarhyncha*	Mangrove pitta	No	Operational	Accidental injury or mortality	High	Medium	Medium	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Ploceus philippinus*	Baya weaver	Yes	Operational	Accidental injury or mortality	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Psittacula longicauda*	Long-tailed parakeet	Yes	Operational	Accidental injury or mortality	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor

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Bird	*Actitis hypoleucos*	Common sandpiper	Yes	Operational	Accidental injury or mortality	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Ketupa ketupu*	Buffy fish owl	No	Operational	Accidental injury or mortality	High	Medium	Medium	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Strix seloputo*	Spotted wood owl	Yes	Operational	Accidental injury or mortality	High	Medium	Medium	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Zosterops simplex*	Swinhoe's white-eye	Yes	Operational	Accidental injury or mortality	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bat	*Macroglossus minimus*	Lesser long-tongued nectar bat	No	Operational	Human disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bat	*Tylonycteris fulvida*	Lesser bamboo bat	No	Operational	Human disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bat	*Tylonycteris malayana*	Greater bamboo bat	No	Operational	Human disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Astictopterus jama jama*	Forest hopper	No	Operational	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Caltoris malaya*	Malayan swift	No	Operational	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

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Butterfly	*Catopyrops ancyra*	Ancyra blue	No	Operational	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Eurema brigitta senna*	No brand grass yellow	No	Operational	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Jamides alecto ageladas*	Metallic caerulean	No	Operational	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba angusta kerriana*	White fourline blue	No	Operational	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba kurava nemana*	Transparent sixline blue	No	Operational	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba pactolus odon*	Large fourline blue	No	Operational	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba sanaya elioti*	Jewel fourline blue	No	Operational	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Pachliopta aristolochiae asteris*	Common rose	No	Operational	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Pelopidas agna agna*	Bengal swift	No	Operational	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Troides helena cerberus*	Common birdwing	No	Operational	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Decapod	*Athanas japonicus*	N.A	No	Operational	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Athanas polymorphus*	N.A	No	Operational	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Ilyoplax delsmani*	N.A	No	Operational	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops amnicus*	N.A	No	Operational	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops johnsoni*	N.A	No	Operational	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops tigger*	N.A	No	Operational	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Salmoneus singaporensis*	N.A	No	Operational	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Sarmatium germaini*	N.A	No	Operational	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Thalassina anomala*	N.A	Yes*	Operational	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Thalassina gracilis*	N.A	Yes*	Operational	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Decapod	*Uca rosea*	Rosy fiddler crab	No	Operational	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Wolffogebia phuketensis*	N.A	No	Operational	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Fish	*Himantura uarnak*	Honeycomb ray	No	Operational	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Horsehose crab	*Carcinoscorpius rotundicauda*	Mangrove horseshoe crab	Yes	Operational	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Cerithium traillii*	Traill's cerith	No	Operational	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Clithon oualaniense*	N.A	No	Operational	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Murex trapa*	Rare-spinned murex	No	Operational	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Nerita planospira*	Flat-spire nerite	No	Operational	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Pinna bicolor*	Two-colloured fan shell	No	Operational	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Pinna incurva*	Fan mussel	No	Operational	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Non-volant mammal	*Lutrogale perspicillata*	Smooth otter	Yes	Operational	Human disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Non-volant mammal	*Macaca fascicularis*	Long-tailed macaque	No	Operational	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Non-volant mammal	*Manis javanica*	Sunda pangolin	No	Operational	Human disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Agriocnemis pygmaea*	Wandering wisp	No	Operational	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Anax panybeus*	Arrow emperor	No	Operational	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Chalybiothemis fluviatilis*	Green-eyed percher	No	Operational	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Gynacantha basiguttata*	Spoon-tailed duskhawker	No	Operational	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Gynacantha bayadera*	Small duskhawker	No	Operational	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Mortonagrion arthuri*	Arthur's midget	No	Operational	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Reptile	*Crocodylus porosus*	Estuarine crocodile	No	Operational	Human disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Bird	*Aquila heliaca*	Eastern imperial eagle	No	Operational	Human disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Aquila nipalensis*	Steppe eagle	No	Operational	Human disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Clanga clanga*	Greater spotted eagle	No	Operational	Human disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Haliaeetus ichthyaetus*	Grey-headed fish eagle	Yes	Operational	Human disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Nisaetus cirrhatus*	Changeable hawk-eagle	Yes	Operational	Human disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Spilornis cheela*	Crested serpent eagle	No	Operational	Human disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Acrocephalus orientalis*	Oriental reed warbler	Yes	Operational	Human disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Alcedo atthis*	Common kingfisher	Yes	Operational	Human disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Alcedo meninting*	Blue-eared kingfisher	No	Operational	Human disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Halcyon coromanda*	Ruddy kingfisher	No	Operational	Human disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

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Bird	*Halcyon pileata*	Black-capped kingfisher	Yes	Operational	Human disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ardea alba*	Great egret	Yes	Operational	Human disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ardea purpurea*	Purple heron	Yes	Operational	Human disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ardea sumatrana*	Great-billed heron	No	Operational	Human disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Egretta eulophotes*	Chinese egret	No	Operational	Human disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ixobrychus sinensis*	Yellow bittern	Yes	Operational	Human disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Nycticorax nycticorax*	Black-crowned night heron	Yes	Operational	Human disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Leptoptilos javanicus*	Lesser adjutant	No	Operational	Human disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Corvus macrorhynchos*	Large-billed crow	Yes	Operational	Human disturbances	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Chrysococcyx xanthorhynchus*	Violet cuckoo	No	Operational	Human disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Bird	*Surniculus lugubris*	Square-tailed drongo-cuckoo	No	Operational	Human disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Lonchura striata*	White-rumped munia	No	Operational	Human disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Lanius cristatus*	Brown shrike	Yes	Operational	Human disturbances	High	Medium	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Copsychus saularis*	Oriental magpie-robin	Yes	Operational	Human disturbances	High	Medium	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Cyornis brunneatus*	Brown-chested jungle flycatcher	No	Operational	Human disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Pitta megarhyncha*	Mangrove pitta	No	Operational	Human disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ploceus philippinus*	Baya weaver	Yes	Operational	Human disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Psittacula longicauda*	Long-tailed parakeet	Yes	Operational	Human disturbances	High	Medium	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Pycnonotus zeylanicus*	Straw-headed bulbul	Yes	Operational	Human disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Actitis hypoleucos*	Common sandpiper	Yes	Operational	Human disturbances	High	Medium	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Bird	*Ketupa ketupu*	Buffy fish owl	No	Operational	Human disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Strix seloputo*	Spotted wood owl	Yes	Operational	Human disturbances	High	Medium	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Zosterops simplex*	Swinhoe's white-eye	Yes	Operational	Human disturbances	High	Medium	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bat	*Eonycteris spelaea*	Cave nectar bat	No	Operational	Human-wildlife conflict	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bat	*Macroglossus minimus*	Lesser long-tongued nectar bat	No	Operational	Human-wildlife conflict	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bat	*Tylonycteris fulvida*	Lesser bamboo bat	No	Operational	Human-wildlife conflict	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bat	*Tylonycteris malayana*	Greater bamboo bat	No	Operational	Human-wildlife conflict	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Astictopterus jama jama*	Forest hopper	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Caltoris malaya*	Malayan swift	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Catopyrops ancyra*	Ancyra blue	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Butterfly	*Eurema brigitta senna*	No brand grass yellow	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Jamides alecto ageladas*	Metallic caerulean	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba angusta kerriana*	White fourline blue	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba kurava nemana*	Transparent sixline blue	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba pactolus odon*	Large fourline blue	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba sanaya elioti*	Jewel fourline blue	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Pachliopta aristolochiae asteris*	Common rose	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Pelopidas agna agna*	Bengal swift	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Troides helena cerberus*	Common birdwing	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Athanas japonicus*	N.A	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Decapod	*Athanas polymorphus*	N.A	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Ilyoplax delsmani*	N.A	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops amnicus*	N.A	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops johnsoni*	N.A	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops tigger*	N.A	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Salmoneus singaporensis*	N.A	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Sarmatium germaini*	N.A	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Thalassina anomala*	N.A	Yes*	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Thalassina gracilis*	N.A	Yes*	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Uca rosea*	Rosy fiddler crab	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Decapod	*Wolffogebia phuketensis*	N.A	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Fish	*Himantura uarnak*	Honeycomb ray	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Horsehose crab	*Carcinoscorpius rotundicauda*	Mangrove horseshoe crab	Yes	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Cerithium traillii*	Traill's cerith	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Clithon oualaniense*	N.A	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Murex trapa*	Rare-spinned murex	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Nerita planospira*	Flat-spire nerite	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Pinna bicolor*	Two-colloured fan shell	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Pinna incurva*	Fan mussel	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Non-volant mammal	*Lutrogale perspicillata*	Smooth otter	Yes	Operational	Human-wildlife conflict	High	Medium	Medium	Possible	Moderate	High	High	Less Likely	Minor
Non-volant mammal	*Macaca fascicularis*	Long-tailed macaque	No	Operational	Human-wildlife conflict	High	High	High	Possible	Moderate	High	High	Less Likely	Minor

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Non-volant mammal	*Manis javanica*	Sunda pangolin	No	Operational	Human-wildlife conflict	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Agriocnemis pygmaea*	Wandering wisp	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Anax panybeus*	Arrow emperor	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Chalybiothemis fluviatilis*	Green-eyed percher	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Gynacantha basiguttata*	Spoon-tailed duskhawker	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Gynacantha bayadera*	Small duskhawker	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Mortonagrion arthuri*	Arthur's midget	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Reptile	*Crocodylus porosus*	Estuarine crocodile	No	Operational	Human-wildlife conflict	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Aquila heliaca*	Eastern imperial eagle	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Aquila nipalensis*	Steppe eagle	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

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Bird	*Clanga clanga*	Greater spotted eagle	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Haliaeetus ichthyaetus*	Grey-headed fish eagle	Yes	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Nisaetus cirrhatus*	Changeable hawk-eagle	Yes	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Spilornis cheela*	Crested serpent eagle	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Acrocephalus orientalis*	Oriental reed warbler	Yes	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Alcedo atthis*	Common kingfisher	Yes	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Alcedo meninting*	Blue-eared kingfisher	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Halcyon coromanda*	Ruddy kingfisher	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Halcyon pileata*	Black-capped kingfisher	Yes	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ardea alba*	Great egret	Yes	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Bird	*Ardea purpurea*	Purple heron	Yes	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ardea sumatrana*	Great-billed heron	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Egretta eulophotes*	Chinese egret	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ixobrychus sinensis*	Yellow bittern	Yes	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Nycticorax nycticorax*	Black-crowned night heron	Yes	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Leptoptilos javanicus*	Lesser adjutant	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Corvus macrorhynchos*	Large-billed crow	Yes	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Chrysococcyx xanthorhynchus*	Violet cuckoo	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Surniculus lugubris*	Square-tailed drongo-cuckoo	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Lonchura striata*	White-rumped munia	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

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Bird	*Lanius cristatus*	Brown shrike	Yes	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Copsychus saularis*	Oriental magpie-robin	Yes	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Cyornis brunneatus*	Brown-chested jungle flycatcher	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Pitta megarhyncha*	Mangrove pitta	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ploceus philippinus*	Baya weaver	Yes	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Psittacula longicauda*	Long-tailed parakeet	Yes	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Pycnonotus zeylanicus*	Straw-headed bulbul	Yes	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Actitis hypoleucos*	Common sandpiper	Yes	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ketupa ketupu*	Buffy fish owl	No	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Strix seloputo*	Spotted wood owl	Yes	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Bird	*Zosterops simplex*	Swinhoe's white-eye	Yes	Operational	Human-wildlife conflict	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bat	*Eonycteris spelaea*	Cave nectar bat	No	Operational	Light disturbances	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bat	*Macroglossus minimus*	Lesser long-tongued nectar bat	No	Operational	Light disturbances	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bat	*Tylonycteris fulvida*	Lesser bamboo bat	No	Operational	Light disturbances	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bat	*Tylonycteris malayana*	Greater bamboo bat	No	Operational	Light disturbances	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Butterfly	*Astictopterus jama jama*	Forest hopper	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Caltoris malaya*	Malayan swift	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Catopyrops ancyra*	Ancyra blue	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Eurema brigitta senna*	No brand grass yellow	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Jamides alecto ageladas*	Metallic caerulean	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Butterfly	*Nacaduba angusta kerriana*	White fourline blue	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba kurava nemana*	Transparent sixline blue	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba pactolus odon*	Large fourline blue	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba sanaya elioti*	Jewel fourline blue	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Pachliopta aristolochiae asteris*	Common rose	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Pelopidas agna agna*	Bengal swift	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Troides helena cerberus*	Common birdwing	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Athanas japonicus*	N.A	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Athanas polymorphus*	N.A	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Ilyoplax delsmani*	N.A	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

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Decapod	*Potamalpheops amnicus*	N.A	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops johnsoni*	N.A	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops tigger*	N.A	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Salmoneus singaporensis*	N.A	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Sarmatium germaini*	N.A	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Thalassina anomala*	N.A	Yes*	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Thalassina gracilis*	N.A	Yes*	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Uca rosea*	Rosy fiddler crab	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Wolffogebia phuketensis*	N.A	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Fish	*Himantura uarnak*	Honeycomb ray	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

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Horsehose crab	*Carcinoscorpius rotundicauda*	Mangrove horseshoe crab	Yes	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Cerithium traillii*	Traill's cerith	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Clithon oualaniense*	N.A	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Murex trapa*	Rare-spinned murex	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Nerita planospira*	Flat-spire nerite	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Pinna bicolor*	Two-colloured fan shell	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Pinna incurva*	Fan mussel	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Non-volant mammal	*Lutrogale perspicillata*	Smooth otter	Yes	Operational	Light disturbances	High	Medium	Medium	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Non-volant mammal	*Macaca fascicularis*	Long-tailed macaque	No	Operational	Light disturbances	High	High	High	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Non-volant mammal	*Manis javanica*	Sunda pangolin	No	Operational	Light disturbances	High	Low	Low	Less Likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor

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Odonata	*Agriocnemis pygmaea*	Wandering wisp	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Anax panybeus*	Arrow emperor	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Chalybiothemis fluviatilis*	Green-eyed percher	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Gynacantha basiguttata*	Spoon-tailed duskhawker	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Gynacantha bayadera*	Small duskhawker	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Mortonagrion arthuri*	Arthur's midget	No	Operational	Light disturbances	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Reptile	*Crocodylus porosus*	Estuarine crocodile	No	Operational	Light disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Aquila heliaca*	Eastern imperial eagle	No	Operational	Light disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Aquila nipalensis*	Steppe eagle	No	Operational	Light disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Clanga clanga*	Greater spotted eagle	No	Operational	Light disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

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Bird	*Haliaeetus ichthyaetus*	Grey-headed fish eagle	Yes	Operational	Light disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Nisaetus cirrhatus*	Changeable hawk-eagle	Yes	Operational	Light disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Spilornis cheela*	Crested serpent eagle	No	Operational	Light disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Acrocephalus orientalis*	Oriental reed warbler	Yes	Operational	Light disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Alcedo atthis*	Common kingfisher	Yes	Operational	Light disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Alcedo meninting*	Blue-eared kingfisher	No	Operational	Light disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Halcyon coromanda*	Ruddy kingfisher	No	Operational	Light disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Halcyon pileata*	Black-capped kingfisher	Yes	Operational	Light disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ardea alba*	Great egret	Yes	Operational	Light disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ardea purpurea*	Purple heron	Yes	Operational	Light disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

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Bird	*Ardea sumatrana*	Great-billed heron	No	Operational	Light disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Egretta eulophotes*	Chinese egret	No	Operational	Light disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ixobrychus sinensis*	Yellow bittern	Yes	Operational	Light disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Nycticorax nycticorax*	Black-crowned night heron	Yes	Operational	Light disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Leptoptilos javanicus*	Lesser adjutant	No	Operational	Light disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Corvus macrorhynchos*	Large-billed crow	Yes	Operational	Light disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Chrysococcyx xanthorhynchus*	Violet cuckoo	No	Operational	Light disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Surniculus lugubris*	Square-tailed drongo-cuckoo	No	Operational	Light disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Lonchura striata*	White-rumped munia	No	Operational	Light disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Lanius cristatus*	Brown shrike	Yes	Operational	Light disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

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Bird	*Copsychus saularis*	Oriental magpie-robin	Yes	Operational	Light disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Cyornis brunneatus*	Brown-chested jungle flycatcher	No	Operational	Light disturbances	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Pitta megarhyncha*	Mangrove pitta	No	Operational	Light disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ploceus philippinus*	Baya weaver	Yes	Operational	Light disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Psittacula longicauda*	Long-tailed parakeet	Yes	Operational	Light disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Pycnonotus zeylanicus*	Straw-headed bulbul	Yes	Operational	Light disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Actitis hypoleucos*	Common sandpiper	Yes	Operational	Light disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ketupa ketupu*	Buffy fish owl	No	Operational	Light disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Strix seloputo*	Spotted wood owl	Yes	Operational	Light disturbances	High	High	High	Less likely	Minor	No change as likelihood and impact is assessed to be the lowest			Minor
Bird	*Zosterops simplex*	Swinhoe's white-eye	Yes	Operational	Light disturbances	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Bat	*Eonycteris spelaea*	Cave nectar bat	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bat	*Macroglossus minimus*	Lesser long-tongued nectar bat	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bat	*Tylonycteris fulvida*	Lesser bamboo bat	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bat	*Tylonycteris malayana*	Greater bamboo bat	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Astictopterus jama jama*	Forest hopper	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Caltoris malaya*	Malayan swift	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Catopyrops ancyra*	Ancyra blue	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Eurema brigitta senna*	No brand grass yellow	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Jamides alecto ageladas*	Metallic caerulean	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba angusta kerriana*	White fourline blue	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Butterfly	*Nacaduba kurava nemana*	Transparent sixline blue	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba pactolus odon*	Large fourline blue	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba sanaya elioti*	Jewel fourline blue	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Pachliopta aristolochiae asteris*	Common rose	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Pelopidas agna agna*	Bengal swift	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Troides helena cerberus*	Common birdwing	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Athanas japonicus*	N.A	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Athanas polymorphus*	N.A	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Ilyoplax delsmani*	N.A	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops amnicus*	N.A	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Decapod	*Potamalpheops johnsoni*	N.A	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops tigger*	N.A	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Salmoneus singaporensis*	N.A	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Sarmatium germaini*	N.A	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Thalassina anomala*	N.A	Yes*	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Thalassina gracilis*	N.A	Yes*	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Uca rosea*	Rosy fiddler crab	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Wolffogebia phuketensis*	N.A	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Fish	*Himantura uarnak*	Honeycomb ray	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Horsehose crab	*Carcinoscorpius rotundicauda*	Mangrove horseshoe crab	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Mollusc	*Cerithium traillii*	Traill's cerith	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Clithon oualaniense*	N.A	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Murex trapa*	Rare-spinned murex	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Nerita planospira*	Flat-spire nerite	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Pinna bicolor*	Two-colloured fan shell	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Pinna incurva*	Fan mussel	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Non-volant mammal	*Lutrogale perspicillata*	Smooth otter	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Non-volant mammal	*Macaca fascicularis*	Long-tailed macaque	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Non-volant mammal	*Manis javanica*	Sunda pangolin	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Agriocnemis pygmaea*	Wandering wisp	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

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Odonata	*Anax panybeus*	Arrow emperor	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Chalybiothemis fluviatilis*	Green-eyed percher	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Gynacantha basiguttata*	Spoon-tailed duskhawker	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Gynacantha bayadera*	Small duskhawker	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Mortonagrion arthuri*	Arthur's midget	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Reptile	*Crocodylus porosus*	Estuarine crocodile	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Aquila heliaca*	Eastern imperial eagle	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Aquila nipalensis*	Steppe eagle	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Clanga clanga*	Greater spotted eagle	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Haliaeetus ichthyaetus*	Grey-headed fish eagle	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

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Bird	*Nisaetus cirrhatus*	Changeable hawk-eagle	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Spilornis cheela*	Crested serpent eagle	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Acrocephalus orientalis*	Oriental reed warbler	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Alcedo atthis*	Common kingfisher	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Alcedo meninting*	Blue-eared kingfisher	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Halcyon coromanda*	Ruddy kingfisher	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Halcyon pileata*	Black-capped kingfisher	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ardea alba*	Great egret	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ardea purpurea*	Purple heron	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ardea sumatrana*	Great-billed heron	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Bird	*Egretta eulophotes*	Chinese egret	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ixobrychus sinensis*	Yellow bittern	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Nycticorax nycticorax*	Black-crowned night heron	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Leptoptilos javanicus*	Lesser adjutant	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Corvus macrorhynchos*	Large-billed crow	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Chrysococcyx xanthorhynchus*	Violet cuckoo	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Surniculus lugubris*	Square-tailed drongo-cuckoo	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Lonchura striata*	White-rumped munia	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Lanius cristatus*	Brown shrike	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Copsychus saularis*	Oriental magpie-robin	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Bird	*Cyornis brunneatus*	Brown-chested jungle flycatcher	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Pitta megarhyncha*	Mangrove pitta	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ploceus philippinus*	Baya weaver	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Psittacula longicauda*	Long-tailed parakeet	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Pycnonotus zeylanicus*	Straw-headed bulbul	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Actitis hypoleucos*	Common sandpiper	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ketupa ketupu*	Buffy fish owl	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Strix seloputo*	Spotted wood owl	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Zosterops simplex*	Swinhoe's white-eye	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bat	*Eonycteris spelaea*	Cave nectar bat	No	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

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Bat	*Macroglossus minimus*	Lesser long-tongued nectar bat	No	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bat	*Tylonycteris fulvida*	Lesser bamboo bat	No	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bat	*Tylonycteris malayana*	Greater bamboo bat	No	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Astictopterus jama jama*	Forest hopper	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Caltoris malaya*	Malayan swift	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Catopyrops ancyra*	Ancyra blue	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Eurema brigitta senna*	No brand grass yellow	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Jamides alecto ageladas*	Metallic caerulean	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba angusta kerriana*	White fourline blue	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba kurava nemana*	Transparent sixline blue	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Butterfly	*Nacaduba pactolus odon*	Large fourline blue	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Nacaduba sanaya elioti*	Jewel fourline blue	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Pachliopta aristolochiae asteris*	Common rose	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Pelopidas agna agna*	Bengal swift	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Butterfly	*Troides helena cerberus*	Common birdwing	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Athanas japonicus*	N.A	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Athanas polymorphus*	N.A	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Ilyoplax delsmani*	N.A	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops amnicus*	N.A	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Potamalpheops johnsoni*	N.A	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Decapod	*Potamalpheops tigger*	N.A	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Salmoneus singaporensis*	N.A	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Sarmatium germaini*	N.A	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Thalassina anomala*	N.A	Yes*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Thalassina gracilis*	N.A	Yes*	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Uca rosea*	Rosy fiddler crab	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Decapod	*Wolffogebia phuketensis*	N.A	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Fish	*Himantura uarnak*	Honeycomb ray	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Horsehose crab	*Carcinoscorpius rotundicauda*	Mangrove horseshoe crab	Yes	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Cerithium traillii*	Traill's cerith	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Mollusc	*Clithon oualaniense*	N.A	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Murex trapa*	Rare-spinned murex	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Nerita planospira*	Flat-spire nerite	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Pinna bicolor*	Two-colloured fan shell	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Mollusc	*Pinna incurva*	Fan mussel	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Non-volant mammal	*Lutrogale perspicillata*	Smooth otter	Yes	Operational	Poaching	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Non-volant mammal	*Macaca fascicularis*	Long-tailed macaque	No	Operational	Poaching	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Non-volant mammal	*Manis javanica*	Sunda pangolin	No	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Agriocnemis pygmaea*	Wandering wisp	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Anax panybeus*	Arrow emperor	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Odonata	*Chalybiothemis fluviatilis*	Green-eyed percher	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Gynacantha basiguttata*	Spoon-tailed duskhawker	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Gynacantha bayadera*	Small duskhawker	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Odonata	*Mortonagrion arthuri*	Arthur's midget	No	Operational	Poaching	High	Negligible	Very Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Reptile	*Crocodylus porosus*	Estuarine crocodile	No	Operational	Poaching	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Aquila heliaca*	Eastern imperial eagle	No	Operational	Poaching	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Aquila nipalensis*	Steppe eagle	No	Operational	Poaching	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Clanga clanga*	Greater spotted eagle	No	Operational	Poaching	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Haliaeetus ichthyaetus*	Grey-headed fish eagle	Yes	Operational	Poaching	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Nisaetus cirrhatus*	Changeable hawk-eagle	Yes	Operational	Poaching	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Bird	*Spilornis cheela*	Crested serpent eagle	No	Operational	Poaching	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Acrocephalus orientalis*	Oriental reed warbler	Yes	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Alcedo atthis*	Common kingfisher	Yes	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Alcedo meninting*	Blue-eared kingfisher	No	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Halcyon coromanda*	Ruddy kingfisher	No	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Halcyon pileata*	Black-capped kingfisher	Yes	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ardea alba*	Great egret	Yes	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ardea purpurea*	Purple heron	Yes	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ardea sumatrana*	Great-billed heron	No	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Egretta eulophotes*	Chinese egret	No	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Bird	*Ixobrychus sinensis*	Yellow bittern	Yes	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Nycticorax nycticorax*	Black-crowned night heron	Yes	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Leptoptilos javanicus*	Lesser adjutant	No	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Corvus macrorhynchos*	Large-billed crow	Yes	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Chrysococcyx xanthorhynchus*	Violet cuckoo	No	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Surniculus lugubris*	Square-tailed drongo-cuckoo	No	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Lonchura striata*	White-rumped munia	No	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Lanius cristatus*	Brown shrike	Yes	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Copsychus saularis*	Oriental magpie-robin	Yes	Operational	Poaching	High	Medium	Medium	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Cyornis brunneatus*	Brown-chested jungle flycatcher	No	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Type	Species	Common name	Recorded during field assessment	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Consequence (C = S × I)	Likelihood (L)	Impact significance (C × L)	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Bird	*Pitta megarhyncha*	Mangrove pitta	No	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ploceus philippinus*	Baya weaver	Yes	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Psittacula longicauda*	Long-tailed parakeet	Yes	Operational	Poaching	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Pycnonotus zeylanicus*	Straw-headed bulbul	Yes	Operational	Poaching	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Actitis hypoleucos*	Common sandpiper	Yes	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Ketupa ketupu*	Buffy fish owl	No	Operational	Poaching	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Strix seloputo*	Spotted wood owl	Yes	Operational	Poaching	High	High	High	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible
Bird	*Zosterops simplex*	Swinhoe's white-eye	Yes	Operational	Poaching	High	Low	Low	Unlikely	Negligible	No change as likelihood and impact is assessed to be the lowest			Negligible

Appendix K

Tree Protection and Conservation Guidelines

TREE PROTECTION AND CONSERVATION GUIDELINES

By

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Lead Arborist

Camphora Pte Ltd

ISA certified

SG-0117A

CONTENT REQUIREMENTS

This document outlines specific measures to protect trees during construction or other site disturbance. The content and scope of the document will vary based on the site, type of construction, tree species, tree location and other factors.

TREE PROTECTION AND CONSERVATION GUIDELINES

This section outlines the general provisions for tree protection before, during and after construction. Additional measures may be added by the attending arborist on a case-by-case basis.

PRE-DEMOLITION/PILING/CONSTRUCTION

1. Pre-Construction Meeting

The attending arborist shall attend a pre-construction meeting with the project contractor or construction supervisor to explain the tree protection and monitoring requirements as outlined in this document.

In addition, the project contractor or construction supervisor shall complete the 'VERIFICATION OF TREE PROTECTION CHECKLIST' as attached in Annex A before the onset of the construction.

1.1 Tree Protection Zone

Prior to any site clearing (demolition works), piling works, grading, trenching or other soil disturbance, a tree protection zone (TPZ) must be installed as follows:

i. Type

The barriers should be temporary, made of a hard material, 1.8-m tall and firmly installed into the ground.

ii. Ground protection

Mulching material (can be compost or woodchips) at 100-mm thick to be laid within the TPZ. If woodchips are used, termicide treatment is necessary to prevent the introduction of harmful termites.

Apply complete fertilizer (N:P:K 15:15:15) upon or together with the application of mulch.

iii. Signage

A readily-visible and waterproof sign shall be installed on all sides of the fencing around each individual protected tree. The size of each sign must be a minimum of 300mm wide and must contain the wording below:

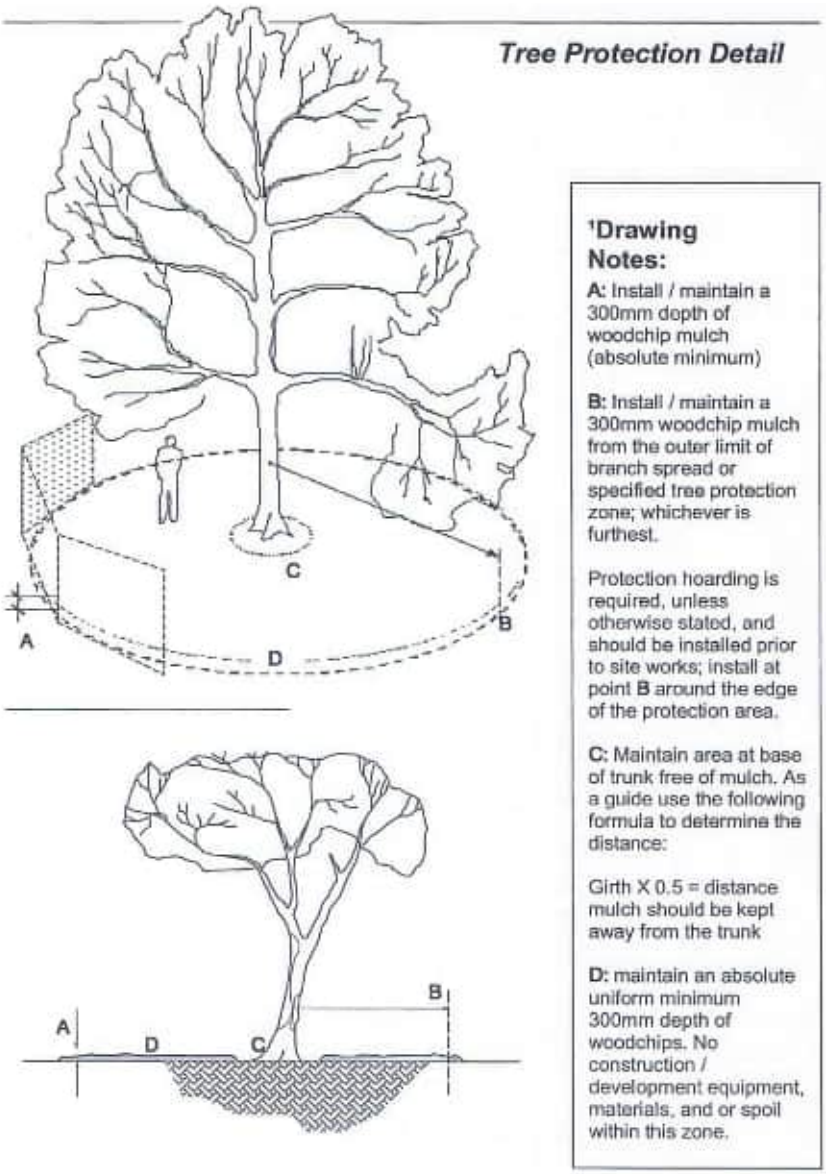
KEEP OUT!
TREE PROTECTION ZONE

Entry prohibited. This fence shall remain in place throughout the entire construction period.

iv. Fencing installation

Installation must be approved by the attending arborists and/or the approved authority prior to construction.

A diagrammatic representation of a proper Tree protection zone is presented below.



[1]SEE NATIONAL PARKS BOARD TREE PROTECTION SPECIFICATION - SITE CLEARANCE / DURING CONSTRUCTION

1.2 Tree pruning and removal

Various trees may need to be pruned away from structures or proposed construction activity. ***Construction or contractor personnel shall not attempt pruning or removal.*** Consultation and written approval with attending arborist must be obtained prior to pruning.

Removal of trees adjacent to trees that are to be retained requires planning and skilled arboriculture workers. Trees should not be removed by pushing with excavators/heavy

machinery or with lumberjack (one cut) methods. Directional felling methods (notch and back-cut) should be deployed during removal of trees.

Removal of trees that extend into branches or roots of protected trees shall not be attempted by the demolition or construction crew, or by grading or other heavy equipment. Before removing tree stumps, the project manager shall seek the advice from the attending arborist determine if roots are entangled with trees that are to remain. If so, these stumps shall have their roots severed before extracting them.

1.3 Site Clearance

To avoid lumber jack felling of trees that may severely damage the canopy of conserved trees, it is recommended that qualified (see Point 4.3 Tree Conservation Guidelines) Arboriculture contractors be engage to fell trees adjacent to protected trees to ensure that the trees (when cut) fall away from the protected trees and their associated TPZs.

Contractors carry out tree felling works near assigned TPZs of conserved trees should

i. Employ directional felling through the use of notch and back cuts

ii. Deploy cranes to tension trunks in the direction of the drop

iii. Carry out pruning of canopy branches to remove entangling branches

iv. If trees to be removed are taller than neighbouring trees to be retained, removal of branches should be carried out in a controlled manner using ropes and cranes to avoid damaging canopy of the lower trees.

v. To avoid pruning of conserved trees at the proximity unless consultation and approval from attending arborist has been obtained.

vi. No tree should be removed by pushing with an excavator or heavy machinery.

DURING DEMOLITION/PILING/CONSTRUCTION

2. Tree Protection Zone Restrictions

- No ground disturbance, grading, trenching or other construction activities shall occur within the TPZ except as specified and/or approved by the attending arborist or authority.
- No construction material, debris, machinery (e.g. generators) or other construction waste shall be stored within the TPZ. Weight and presence of these materials increases

soil compaction and reduces the area exposed for water infiltration and gaseous exchange.

Figure 1: Construction material and heavy machinery are prohibited within the TPZ

- Excavation works within the TPZ are strictly prohibited. Unless otherwise specified by the attending arborist, all work done within the TPZ shall be completed with manual trenching with hand tools or other hand held power tools that will not cause any root/tree damage.

  If roots need to be cut, it shall be done using proper equipment (e.g. pruning saw, chain saw) under the supervision of the attending arborist.

Figure 2: Trial trench by skilled workers using hand tools exposing root architecture

- Nailing, tying or pasting of materials on trees is prohibited. The tree shall not be used

as an anchor for supporting structures during the construction.

Figure 3: Using tree as anchor may damage its bark.

Figure 4: No nails shall be driven into the tree as it promotes infiltration of pests/diseases

- Phytotoxic materials such as fuels, oils, cement, chemicals, and paint shall be kept away and stored/mixed at least 2.5m from the tree protection zone. Such chemicals can significantly change the cation exchange capacity and pH of the soil, rendering nutrient uptake inefficient and creating an environment too toxic for the roots to grow.

  Construction slug especially from piling works should not be deposited within the TPZ. Such sludge is usually high in clay content and when layered over and within the TPZ could significantly alter the water infiltration and gaseous exchange rates of the root absorption area of the tree.

Canvass sheets/Eco-mat must be laid on the existing soil near the tree in view of soil protection during the demolition, drilling or other construction activities pertaining to concrete structures.

Figure 5: Construction cement deposited at tree base.

Figure 6: Tree showing signs of decline overtime.

- Lowering the grade around trees can have an immediate and long-term effect on trees. Typically, most roots are within the top 1m of soil, and most of the fine roots active in water and nutrient absorption are in the top 300mm.

  A) Grade changes within the TPZ are not permitted.

  B) Grade changes outside the TPZ shall not significantly alter drainage.

  C) Grade changes under specifically approved circumstances shall not allow more than

200mm of fill soil or allow more than 150mm of existing soil to be removed from natural grade, unless mitigated.

D) Grade fills over 200mm or impervious overlay shall incorporate an approved permanent aeration system, permeable material, or other approved mitigation.

E) Grade cuts exceeding 150mm shall incorporate retaining walls or an appropriate transition equivalent.

No removal of the TPZ will be permitted under any circumstances.

Figure 7: Inappropriate installation/maintenance of TPZ during construction.

2.2 Proximity of Heavy machinery/vehicles

Heavy vehicles and machinery (e.g. excavators, piling cranes, 10 wheelers) movement should be limited near TPZs. Temporary access/passageways should be planned to avoid conserved trees.

Figure 8: Tree branches were severed due to the negligence of the crane operator.

2.3 Drainage Considerations

In the event that water ponding conditions develop in the course of construction due to change in grade/platform levels, construction events or any other unforeseeable factors, the contractor is required to improve drainage around or within the TPZ in consultation with the attending arborist.

2.4 Trenching, Excavation and Equipment use

Trenching, excavation or boring within the TPZ shall be limited to activities approved by the architect and/or attending Arborist. Explore alternatives for trenching outside the root zone. Avoid exposing roots during hot, dry weather. Backfill trenches as soon as possible with soil and soak with water the same day. Small roots can die in 10 to 15 minutes and large roots may not survive an hour of exposure. If the trench must be left open all roots must be kept moist by wrapping them in peat moss and burlap.

i. Root Severance

No roots greater than 0.2m in diameter shall be cut without approval of the attending Arborist. Tunneling under roots is the approved alternative. Prior to excavation for foundation/footing/walls, or grading or trenching within the TPZ, roots shall be severed cleanly outside the TPZ to the depth of the planned excavation. When roots must be cut, they shall be cut cleanly with a sharp saw to sound wood and flush with the trench site.

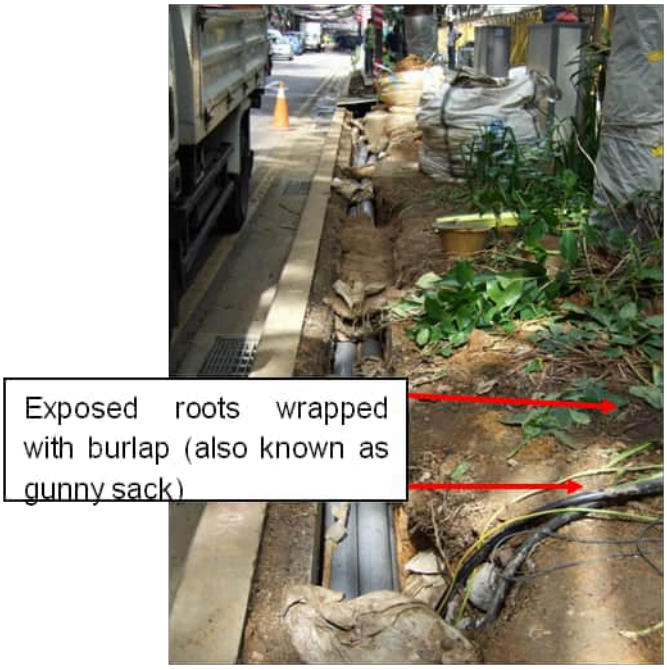


Figure 9: Tunneling under roots.

ii. Excavation

Any approved excavation, demolition, or extraction of material shall be performed with equipment that is placed outside the TPZ. Hand digging, hydraulic, or pneumatic excavation (e.g. air spading) are permitted methods for excavation within the TPZ.

Figure 10: Root exploratory works using an air spade. Air spading avoids damage of structural and even feeder roots of the tree.

iii. Heavy Equipment

Use of backhoes, Ditch-Witches, steal tread tractors or other heavy vehicles within the TPZ is prohibited unless approved by the attending Arborist. If allowed, a protective root buffer is required.

2.5 Tree Care

In the course of construction, the following measures may be necessary to reduce the effects of construction stress on protected trees. Quantum, duration and extent to be advised by attending arborist.

(A) Fertilization

A1 Vertical trenches and Nutrient Sinks

Create vertical trenching and nutrient sinks. These nutrient sinks should go down to at least 300mm deep and should be filled with high grade compost and 12% Humic acid (dilution 1:100). These sinks will act to reduce construction stress by conditioning the soil, increasing soil microbiological activity and increasing organic matter At least 24 numbers of vertical trenches / nutrient sinks are required for trees greater than 2m in girth. Vertical trenches for trees under 2m in girth will be

determined empirically by the attending arborist and will take into account site conditions, tree species and its pre construction vigor. Top up nutrient sinks every 3 months.

A2 Soil Injection of Biostimulants

Mandatory if TPZ has been infringed into, soil compaction has occurred, tree condition has observed to have declined (indicators: reduction in Live crown ratios, twig die back at canopy and change in leaf colour/size/density)

- **Purpose :** To de-compact soil using a hydraulic pressurized delivery of biostimulants that both hydrates and aerates at the same time. Aim to reduce compaction to less than 400psi in the first 500mm of the soil.
- Mixed bio stimulants – serves 2 functions
  Decompaction
- Humic acid – as soil conditioner and chelating agent (Nutrients are mobilized in forms that the plants can accept), facilitate release of nutrients and reduces leaching. Also improves water holding capacities of soil.
- Liquid gypsum / Dolomite – soil conditioner, improve soil structure and facilitate release of nutrients in clay soils typical of local conditions.

  To feed and increase soil microbiology to increase tree vigor post damage. Soil microbiology helps nutrient uptake and encourages healthy root growth critical to prevent construction stress.

- Mollases – High CE for immediate uptake,
- Fish Kelp – Protein source. Organic fertilisers
- Slow release fertilizers (Osmocote)

(B) Watering

- Water supplement during periods of drought.
- Watering duration and extent depends on site conditions and species.
- Watering is carried out until first signs of inundation are observed (i.e. water infiltration observe to slow down significantly).

(C) Myconate treatment

- To trigger and stimulate growth of existing mycorrhizae.

(D) Pesticide treatment

- To control pest (e.g. termites, borers, caterpillars etc) when it occurs.
- Fungicide or bacteriocide as required or as determined by attending arborist to control microbe pathogens.

(E) Additonal pruning

To be carried out in consultation with the attending Arborist. Trees are living things and may require some form of pruning during the course of the development.

- Crown cleansing- Prune to remove dead branches that may have developed through time.
- Crown lifting- Prune to lift crown to avoid new amenities.
- Crown thinning- Prune to reduce canopy branches and loading.

Structural pruning (including crown reduction) to remove branches that may obstruct new amenities and/or movement of critically necessary equipment may require the planning and standing supervision of the attending arborist.

2.6 Engaging Arboriculture Contractors

All arboriculture works should be carried out by skilled and trained arboriculture teams. As such, it is preferred that only Arboriculture contractors which have at least 8 years working experience and must show previous work experience in developments of similar size or complexity. Arboriculture contractors should meet NParks safety requirements for work at height, LTA's requirements for temporary works along roadsides (where necessary) and have a certified arborist to supervise the pruning/felling/planting works.

All arboriculture workers engaged in tree climbing and chainsaw work shall possess a valid basic tree climbing certification base upon demonstrated competence in the WSQ module conducted by CUGE or an equivalent WSQ approved training organization.

Each Arboriculture crew shall possess the following VALID competences,
Operation of chainsaw for ground work (LS-MT-103E-1)
Chainsaw safety and maintenance (LS-MT-102E-1)
Perform formative pruning of young trees (LS-MT-114E-1)
Provide Arboriculture support on site (LS-MT-116E-1)
Workplace safety and health – operators (ES-WSH-101G-1)
Respond to Emergency (LS-HM-208E-1)
Perform advance rigging and climbing techniques (LS-HM-308S-1)
Perform aerial tree access and aerial rescue skills (Ls-HM-204S-1)
Implement and apply appropriate risk and safety management to sector practices (LS-BP-301S-1)
Prepare risk assessment report (LS-HM-406S-1)
Operate and work from an elevated work platform (CUGE-ARB-3501)

POST-CONSTRUCTION

3. Soft Landscaping

Ground works, site preparation and implementation of all landscaping near protected trees must be undertaken carefully.

TPZ barriers can only be removed at this juncture for the purpose. However, when working near trees, cultivation of soils in these areas must be cautiously handled using hand tools. Planting of shrubs shall be at a distance of at least 300mm away from existing root collar.

Avoid changes to ground levels or unnecessary compaction of soils within proximity to existing trees during the course.

Figure 10: New plantings at a minimum distance of 300mm (all round) from root collar

ANNEX A

VERIFICATION OF TREE PROTECTION CHECKLIST

Note: The project contractor or construction supervisor shall verify in writing that all **preconstruction** tree preservation conditions have been met as follows:

Submitted by: _____

Company/Project: _____

Date/Time: _____

S/N	Action	Checked (✔)	Remarks
1	Installation of tree fencing around identified trees within/near site (hard material at 1.8m tall)		
2	Tree protection zone (TPZ) dimensions meets specifications (from NParks and/or attending arborist)		
3	Warning signs prominently displayed on all sides of the fencing, including designated tree number		
4	Removal of construction material (ie machinery, debris, tools etc) within TPZ		
5	Mulching of high grade compost of 100mm thick around identified trees		
6	Completion of tree pruning (if necessary) under the supervision/written approval with the attending arborist		
7	Establishment of a tree maintenance schedule according to arborist recommendations (to be submitted to attending arborist)		

Verified by (attending arborist): _____

Date/Time: _____

Appendix L

Fauna Inspection Form

Fauna Inspections

Inspection Round:
Date of Inspection:
Start and End Time:
Project Title:

Contractor:
Conducted by:
Weather:

Fauna inspections across site include: (a) inspection of hoarding integrity and possibility of wildlife entry into site, (b) inspection of erosion control blankets for wildlife entrapment, and (c)inspection within and around TPZs on site for wildlife presence. Ad-hoc fauna inspections will be conducted when the need arises, e.g. when vegetation needs to be removed on site.

S/N	Activity	Zone inspected	Findings	Coordinates (Lat, Long)	Remarks, photos	Actions to be taken

Appendix M

Pre-felling Fauna Inspection Form

Pre-felling Tree Inspection Form							Personnel:				**Assessment criteria** **Fell**: Ready to fell, no findings of old nests **S-EM**: Fell with supervision by Environmental Manager. Possibly active nest, presence of bird's nest fern, thick vegetation, tree cavities, ground burrows, logs and debris piles. **S-ECO**: Fell with supervision by Ecologist. During bird breeding season. Possibly active nest, presence of bird's nest fern, thick vegetation, tree cavities, ground burrows, logs and debris piles. **Do not fell**: Sedentary fauna, active nest or burrow seen; bee or wasp nest.			
Inspection Date			Valid until				Weather:							
Site:			Bird breeding season (Mar – Jul)?: Y / N				Time In:		Time out:					
Tree No.	Fauna		Nests		Thick vegetation		Tree cavities		Ground burrows		Log and debris piles		Assessment	Remarks
	Details (species, behaviour, height)	Photo no.	Details (nest type, epiphytic fern, species, eggs or young present)	Photo no.	Details (climbers, oil palm, nibong palm, etc)	Photo no.	Details (species, eggs/ young present, height)	Photo no.	Details (species, eggs/ young present, height)	Photo no.	Details	Photo no.		

Appendix N

Wildlife Incident Form

Wildlife Incident Form

Date (YYYY/MM/DD):	Time:
Description of Location:	GPS Coordinates:
Wildlife Observed:	Animal Condition (circle): Alive / Killed / Dead / Injured Animal activity (circle): Moving / Resting / Trapped
Photographs Taken:	MFLG and NParks notified: Yes / No Name of staff notified:
Describe Incident (e.g., activities being carried out; what animal was doing; personnel involved):	
Actions Taken:	
Reported by:	Reported to:
Contact no.:	Contact no:
Remarks:	

Appendix O

Baseline Water Quality Monitoring Report

MLS

TEST REPORT

Our Reference No.	: R216112	Date Received	: 08/11/2021
Project Code / Ref	: Sg Pang Sua Pang Sua Cana	Date Commenced	: 09/11/2021
		Date Reported	: 24/11/2021
Customer Ref. No.	: 60349989		
Customer Name	: AECOM Singapore Pte Ltd		
Customer Address	: 300 Beach Road #03-00 The Concourse Singapore 199555		
Attention To	: Ms Liang Liang		
Sample Description	: 7 Water Samples as per received		
RESULTS:	Refer to Page 2 to 3		

Tan Thuan Piang
Technical Manager

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Website: www.mls.sg

R216112

RESULTS

Test Parameter	Unit	Test Method	Sampling Date: 08/11/2021 Sample 1 WQ4	Sample 2 WQ5	Sample 3 WQ6	Sample 4 WQ7	LOR
Total Nitrogen as TN	mg/L	APHA 4500-P (J)	0.94	0.94	1.66	1.48	0.01
Total Phosphorus as TP	mg/L	APHA 4500-P (J)	0.049	0.042	0.29	0.13	0.01
Ammonia as NH_3-N	mg/L	APHA 4500-NH_3 (H)	0.10	0.086	0.39	0.69	0.01
Nitrate as NO_3-N	mg/L	APHA 4500-NO_3 (I)	0.54	0.57	0.011	0.33	0.005
Orthophosphates as PO_4-P	mg/L	APHA 4500-P (G)	0.040	0.036	0.13	0.11	0.005
Total Suspended Solids as TSS	mg/L	APHA 2540D	14.2	13.8	6.00	2.29	1
Total Organic Carbon, TOC	mg/L	APHA 5310B	1.50	1.82	4.17	3.97	1
Enterococcus	cfu/100ml	APHA 9230C	200	340	4,300	820	1
Lead as Pb	µg/L	APHA 3125B	<0.5	<0.5	<0.5	<0.5	0.5
Biochemical Oxygen Demand as BOD	mg/L	APHA 5210B	4.38	2.37	6.70	4.06	1
Chlorophyll-a	µg/L	APHA 10200H (3)	0.36	0.35	<0.1	<0.1	0.1
Oil & Grease (Total)	mg/L	In house method MLS SOP WQ 033 Rev 0 (adapted from APHA 5520C)	<0.1	<0.1	<0.1	0.20	0.1
Copper as Cu	µg/L	APHA 3125B	1.41	1.32	1.60	0.97	0.5
Zinc as Zn	µg/L	APHA 3125B	<0.5	<0.5	8.99	5.42	0.5
Mercury as Hg	µg/L	APHA 3125B	<0.1	<0.1	<0.1	<0.1	0.1
Cadmium as Cd	µg/L	APHA 3125B	<0.5	<0.5	<0.5	<0.5	0.5
Chromium as Cr	µg/L	APHA 3125B	0.97	<0.5	<0.5	<0.5	0.5
Iron as Fe	µg/L	APHA 3125B	33.1	37.5	<0.5	9.65	0.5
Nickel as Ni	µg/L	APHA 3125B	0.60	<0.5	0.89	1.20	0.5
Arsenic as As	µg/L	APHA 3125B	4.89	3.36	5.88	12.4	0.5
Cyanide as CN	mg/L	APHA 4500-CN-(N)	<0.005	<0.005	<0.005	0.0076	0.005
Sulphate as SO_4	mg/L	APHA 4110B	20.5	20.5	24.0	371	5
Sulphide	mg/L	APHA 4500-S^{2-} (D)	<0.05	<0.05	<0.05	<0.05	0.05
Detergents (MBAS)	mg/L	APHA 5540C	<0.025	<0.025	0.028	0.029	0.025
Barium as Ba	µg/L	APHA 3125B	27.2	25.5	74.8	35.9	0.5

Note:

1. APHA is a standard method for Examination of Water and Waste Water (APHA 23rd Edition, 2017)
2. "<" = Less than. The data reported is less than Detection Limit of Report.

R216112

RESULTS

Test Parameter	Unit	Test Method	Sampling Date: 08/11/2021 Sample 5 WQ8	Sample 6 WQ11	Sample 7 WQ12	LOR
Total Nitrogen as TN	mg/l	APHA 4500 P (J)	1.67	2.47	1.73	0.01
Total Phosphorus as TP	mg/L	APHA 4500 P (J)	0.17	0.11	0.13	0.01
Ammonia as NH_3-N	mg/L	APHA 4500-NH_3 (H)	0.86	0.38	0.65	0.01
Nitrate as NO_3-N	mg/L	APHA 4500 NO_3 (I)	0.41	<0.005	0.36	0.005
Orthophosphates as PO_4-P	mg/L	APHA 4500-P (G)	0.13	0.082	0.17	0.005
Total Suspended Solids as TSS	mg/l	APHA 2540D	6.25	14.8	5.57	1
Total Organic Carbon, TOC	mg/l	APHA 5310B	3.45	6.22	2.85	1
Enterococcus	cfu/100mL	APHA 9230C	288	12,100	248	1
Lead as Pb	µg/L	APHA 3125B	<0.5	<0.5	<0.5	0.5
Biochemical Oxygen Demand as BOD	mg/L	APHA 5210B	2.13	6.75	1.37	1
Chlorophyll a	µg/L	APHA 10200H (3)	0.12	0.49	0.25	0.1
Oil & Grease (Total)	mg/L	In-house method MLS-SOP-WQ-033 Rev 0 (adapted from APHA 5520C)	<0.1	0.16	<0.1	0.1
Copper as Cu	µg/l	APHA 3125B	1.24	1.04	2.14	0.5
Zinc as Zn	µg/L	APHA 3125B	8.17	12.6	1.39	0.5
Mercury as Hg	µg/L	APHA 3125B	<0.1	<0.1	<0.1	0.1
Cadmium as Cd	µg/L	APHA 3125B	<0.5	<0.5	<0.5	0.5
Chromium as Cr	µg/L	APHA 3125B	0.84	1.12	1.51	0.5
Iron as Fe	µg/L	APHA 3125B	5.57	9.33	<0.5	0.5
Nickle as Ni	µg/l	APHA 3125B	1.53	1.84	1.26	0.5
Arsenic as As	µg/L	APHA 3125B	7.35	4.02	3.32	0.5
Cyanide as CN	mg/L	APHA 4500-CN (N)	0.0068	0.015	0.0061	0.005
Sulphate as SO_4	mg/l	APHA 4110B	381	1,085	2,390	5
Sulphide	mg/L	APHA 4500-S^{2-} (F)	<0.05	<0.05	<0.05	0.05
Detergents (MBAS)	mg/L	APHA 5540C	<0.025	0.045	<0.025	0.025
Barium as Ba	µg/l	APHA 3125B	29.2	38.7	17.0	0.5

Note:

1. APHA is a standard method for Determination of Water and Waste Water (APHA 23rd Edition, 2017)
2. "<" - Less than. The data reported is less than Detection Limit of the test

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TEST REPORT

Our Reference No.	R216179	Date Received	: 10/11/2021
Project Code / Ref.	: Sg Pang Sua Pang Sua Cana	Date Commenced	: 10-11-2021
		Date Reported	: 24-11-2021
Customer Ref. No.	: 60349989		
Customer Name	: AECOM Singapore Pte Ltd		
Customer Address	: 300 Beach Road #03-00 The Concourse Singapore 199555		
Attention To	: Ms Liang Liang		
Sample Description	: 4 Water Samples as per received		
RESULTS:	Refer to Page 2		

Tan Thuan Piang
Technical Manager

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R216179

RESULTS

Test Parameter	Unit	Test Method	Sampling Date: 09/11/2021 Sample 1 WQ9	Sample 2 WQ9A	Sample 3 WQ10A	Sample 4 WQ10AW	LOR
Total Nitrogen as TN	mg/L	APHA 4500-P (J)	1.74	1.84	1.62	1.72	0.01
Total Phosphorus as TP	mg/L	APHA 4500-P (J)	0.20	0.20	0.23	0.031	0.01
Ammonia as NH_3-N	mg/L	APHA 4500-NH_3 (H)	0.76	0.87	0.57	0.30	0.01
Nitrate as NO_3-N	mg/L	APHA 4500-NO_3 (I)	0.51	0.57	0.48	0.53	0.005
Orthophosphates as PO_4-P	mg/L	APHA 4500-P (G)	0.15	0.17	0.055	0.078	0.005
Total Suspended Solids as TSS	mg/L	APHA 2540D	5.50	3.80	6.30	40.0	1
Total Organic Carbon, TOC	mg/L	APHA 5310B	3.04	3.50	2.76	3.52	1
Enterococcus	cfu/100mL	APHA 9230C	690	180	420	34,000	1
Lead as Pb	µg/L	APHA 3125B	<0.5	<0.5	<0.5	<0.5	0.5
Biochemical Oxygen Demand as BOD	mg/L	APHA 5210B	2.13	1.36	1.77	2.80	1
Chlorophyll-a	µg/L	APHA 10200H (3)	2.06	0.35	3.07	2.43	0.1
Oil & Grease (Total)	mg/L	In-house method MLS-SOP WQ 033 Rev 0 (adapted from APHA 5520C)	<0.1	<0.1	0.14	0.28	0.1
Copper as Cu	µg/L	APHA 3125B	0.91	1.70	<0.5	2.97	0.5
Zinc as Zn	µg/L	APHA 3125B	7.42	7.80	5.32	27.5	0.5
Mercury as Hg	µg/L	APHA 3125B	<0.1	<0.1	<0.1	<0.1	0.1
Cadmium as Cd	µg/L	APHA 3125B	<0.5	<0.5	<0.5	<0.5	0.5
Chromium as Cr	µg/L	APHA 3125B	1.58	0.33	0.61	<0.5	0.5
Iron as Fe	µg/L	APHA 3125B	1.90	6.27	5.30	62.6	0.5
Nickle as Ni	µg/L	APHA 3125B	1.66	1.34	1.12	0.88	0.5
Arsenic as As	µg/L	APHA 3125B	5.70	15.7	10.2	0.85	0.5
Cyanide as CN	mg/L	APHA 4500-CN-(N)	0.0068	0.0087	<0.005	<0.005	0.005
Sulphate as SO_4	mg/L	APHA 4110B	2,865	1,695	704	35.2	1
Sulphide	mg/L	APHA 4500-S^{2-} (g)	<0.05	<0.05	<0.05	<0.05	0.05
Detergents (MBAS)	mg/L	APHA 5540C	<0.025	<0.025	<0.025	<0.025	0.025
Barium as Ba	µg/L	APHA 3125B	20.9	32.4	34.9	43.1	0.5

Note:

1. APHA is "Standard Method for Determination of Water and Waste Water" (APHA 23rd Edition, 2017)
2. "-" – Less than the data recorded is less than Detection Limit of the test.

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TEST REPORT

Our Reference No.	R216179	Date Received	: 10/11/2021
Project Code / Ref.	: Sg Pang Sua Pang Sua Cana	Date Commenced	: 10-11-2021
		Date Reported	: 24-11-2021
Customer Ref. No.	: 60349989		
Customer Name	: AECOM Singapore Pte Ltd		
Customer Address	: 300 Beach Road #03-00 The Concourse Singapore 199555		
Attention To	: Ms Liang Liang		
Sample Description	: 4 Water Samples as per received		
RESULTS:	Refer to Page 2		

Tan Thuan Piang
Technical Manager

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R216179

RESULTS

Test Parameter	Unit	Test Method	Sampling Date: 09/11/2021 Sample 1 WQ9	Sample 2 WQ9A	Sample 3 WQ10A	Sample 4 WQ10AW	LOR
Total Nitrogen as TN	mg/L	APHA 4500-P (J)	1.74	1.84	1.62	1.72	0.01
Total Phosphorus as TP	mg/L	APHA 4500-P (J)	0.20	0.20	0.23	0.031	0.01
Ammonia as NH_3-N	mg/L	APHA 4500-NH_3 (H)	0.76	0.87	0.57	0.30	0.01
Nitrate as NO_3-N	mg/L	APHA 4500-NO_3 (I)	0.51	0.57	0.48	0.53	0.005
Orthophosphates as PO_4-P	mg/L	APHA 4500-P (G)	0.15	0.17	0.055	0.078	0.005
Total Suspended Solids as TSS	mg/L	APHA 2540D	5.50	3.80	6.30	40.0	1
Total Organic Carbon, TOC	mg/L	APHA 5310B	3.04	3.50	2.76	3.52	1
Enterococcus	cfu/100mL	APHA 9230C	690	180	420	34,000	1
Lead as Pb	µg/L	APHA 3125B	<0.5	<0.5	<0.5	<0.5	0.5
Biochemical Oxygen Demand as BOD	mg/L	APHA 5210B	2.13	1.36	1.77	2.80	1
Chlorophyll-a	µg/L	APHA 10200H (3)	2.06	0.35	3.07	2.43	0.1
Oil & Grease (Total)	mg/L	In-house method MLS-SOP WQ 033 Rev 0 (adapted from APHA 5520C)	<0.1	<0.1	0.14	0.28	0.1
Copper as Cu	µg/L	APHA 3125B	0.91	1.70	<0.5	2.97	0.5
Zinc as Zn	µg/L	APHA 3125B	7.42	7.80	5.32	27.5	0.5
Mercury as Hg	µg/L	APHA 3125B	<0.1	<0.1	<0.1	<0.1	0.1
Cadmium as Cd	µg/L	APHA 3125B	<0.5	<0.5	<0.5	<0.5	0.5
Chromium as Cr	µg/L	APHA 3125B	1.58	0.33	0.61	<0.5	0.5
Iron as Fe	µg/L	APHA 3125B	1.90	6.27	5.30	62.6	0.5
Nickle as Ni	µg/L	APHA 3125B	1.66	1.34	1.12	0.88	0.5
Arsenic as As	µg/L	APHA 3125B	5.70	15.7	10.2	0.85	0.5
Cyanide as CN	mg/L	APHA 4500-CN-(N)	0.0068	0.0087	<0.005	<0.005	0.005
Sulphate as SO_4	mg/L	APHA 4110B	2,865	1,695	704	35.2	1
Sulphide	mg/L	APHA 4500-S^{2-} (g)	<0.05	<0.05	<0.05	<0.05	0.05
Detergents (MBAS)	mg/L	APHA 5540C	<0.025	<0.025	<0.025	<0.025	0.025
Barium as Ba	µg/L	APHA 3125B	20.9	32.4	34.9	43.1	0.5

Note:

1. APHA is "Standard Method for Determination of Water and Waste Water" (APHA 23rd Edition, 2017)
2. "-" – Less than the data recorded is less than Detection Limit of the test.

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TEST REPORT

Our Reference No.	R221416	Date Received	: 03/03/2022
Project Code / Ref.	: Sg Pang Sua	Date Commenced	: 03/03/2022
		Date Reported	: 23/03/2022
Customer Ref. No	: 30649589		
Customer Name	: AECOM Singapore Pte Ltd		
Customer Address	: 300 Beach Road #03-00 The Concourse Singapore 199555		
Attention To	: Ms Jacqueline Chia		
Sample Description	: 5 Water samples as per received.		
RESULTS	: Refer to Page 2		

Tan Thuan Piang
Technical Manager

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[illegible]

R221416

RESULTS

Test Parameter	Unit	Test Method	Sample 1 WQ4 02/03/2022	Sample 2 WQ5 02/03/2022	Sample 3 WQ6 02/03/2022	Sample 4 WQ7 02/03/2022	Sample 5 WQ8 02/03/2022	LOR
pH value	-	APHA 4500-H+ (B)	7.3	7.4	7.7	7.7	7.7	
Total Suspended Solids as TSS	mg/l	APHA 2540D	71.7	115	6.00	25.7	78.6	1
Total Organic Carbon as TOC	mg/l	APHA 5310B	2.27	2.84	2.60	3.77	3.36	1
Total Nitrogen as TN	mg/l	APHA 4500-P (J)	0.70	0.77	0.59	0.56	0.56	0.01
Total Phosphorus as TP	mg/L	APHA 4500-P (J)	0.041	0.068	0.038	0.038	0.049	0.01
Nitrate as NO_3-N	mg/L	APHA 4500-NO_3 (I)	0.26	0.22	0.17	0.19	0.21	0.005
Ammonia as NH_3-N	mg/L	APHA 4500-NH_3 (H)	<0.01	<0.01	<0.01	0.023	0.038	0.01
Orthophosphate as PO_4-P	mg/L	APHA 4500-P (G)	0.018	0.015	0.028	0.034	0.049	0.005
Chloride as Cl	mg/L	APHA 4110B	<10	<10	<10	<10	13.5	10
Cyanide as CN	mg/l	APHA 4500-CN- (N)	<0.005	<0.005	<0.005	<0.005	<0.005	0.005
Arsenic as As	µg/L	APHA 3125B	2.40	3.36	1.16	19.0	19.6	0.5
Barium as Ba	µg/L	APHA 3125B	5.85	9.34	15.0	12.1	12.8	0.5
Chromium as Cr	µg/L	APHA 3125B	7,982	9,350	15,720	17,592	17,938	1.0
Cadmium as Cd	µg/L	APHA 3125B	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
Chromium as Cr	µg/L	APHA 3125B	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
Copper as Cu	µg/L	APHA 3125B	1.80	2.24	2.15	1.98	1.67	0.5
Iron as Fe	µg/L	APHA 3125B	31.3	46.4	22.2	76.0	78.7	0.5
Nickel as Ni	µg/L	APHA 3125B	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
Lead as Pb	µg/L	APHA 3125B	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
Zinc as Zn	µg/L	APHA 3125B	2.49	<0.5	16.5	0.70	2.32	0.5
Mercury as Hg	µg/L	APHA 3125B	<0.1	<0.1	<0.1	<0.1	<0.1	0.1
Chlorophyll a	µg/L	APHA 10200H (3)	0.97	1.48	0.32	0.32	0.37	0.1
Phenolic compounds (as Phenol)	mg/l	MLS SOP-WQ-009 Rev 2	<0.025	<0.025	<0.025	<0.025	<0.025	0.025
Biochemical Oxygen Demand as BOD	mg/l	APHA 5210B	2.89	4.37	2.07	2.57	2.49	
Chemical Oxygen Demand as COD	mg/l	HACH Method 8000 (Oct 2014)	13	21	10	13	10	5
Oil & Grease (Total)	mg/l	In-house method: MLS SOP-WQ-015 Rev 0 (adapted from APHA 5520B)	<0.1	<0.1	0.12	<0.1	<0.1	0.1
Enterococcus	cfu/100ml	APHA 9230C	11,000	2,600	15,000	11,000	12,000	*

Note:

1. APHA = Standard Methods for the Examination of Water and Waste Water (APHA 23rd Edition, 2017)
2. * = Results from the data provided by the client (Yatala Lakes Golf Club)

MLS

TEST REPORT

Our Reference No.	: R221439	Date Received	: 08/03/2022
Project Code / Ref.	: Sg Pang Sua, Pang Sua Canal	Date Commenced	: 14/03/2022
		Date Reported	: 23/03/2022
Customer Ref. No	: 60848888		
Customer Name	: AECOM Singapore Pte Ltd		
Customer Address	: 300 Beach Road #03-00 The Concourse Singapore 199555		
Attention To	: Ms Jacqueline Ong		
Sample Description	: 2 Water Samples as per received		
RESULTS:	Refer to Page 2		

Tan Thuan Piang
Technical Manager

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1. [illegible]
2. [illegible] apply to the sample received as [illegible].
3. [illegible]

Microwood Laboratory Services Pte Ltd
[illegible]

R271439

RESULTS

Test Parameter	Unit	Test Method	Sample 1	Sample 2	LOR
			WQ11	WQ12	
			03/02/2022	03/02/2022	
pH value		APHA 4500 H+ (B)	8.0	7.3	-
Total Suspended Solids as TSS	mg/L	APHA 2540D	13.7	7.29	1
Total Organic Carbon as TOC	mg/L	APHA 5310B	5.55	3.15	1
Total Nitrogen as TN	mg/L	APHA 4500-P (J)	3.32	0.52	0.01
Total Phosphorus as TP	mg/L	APHA 4500-P (J)	0.13	0.030	0.01
Nitrate as NO_3-N	mg/L	APHA 4500-NO_3 (I)	0.52	0.27	0.005
Ammonia as NH_3-N	mg/L	APHA 4500-NH_3 (H)	2.57	0.34	0.01
Orthophosphates as PO_4-P	mg/L	APHA 4500-P (C)	0.005	0.078	0.005
Chloride as Cl	mg/L	APHA 4110B	3.76	2,031	10
Cyanide as CN	mg/L	APHA 4500-CN- (N)	0.0068	<0.005	0.005
Arsenic as As	µg/L	APHA 3125B	<0.5	31.7	0.5
Barium as Ba	µg/L	APHA 3125B	101	28.3	0.5
Calcium as Ca	µg/L	APHA 3120B	68,321	78,770	1.0
Cadmium as Cd	µg/L	APHA 3125B	<0.5	<0.5	0.5
Chromium as Cr	µg/L	APHA 3125B	<0.5	0.50	0.5
Copper as Cu	µg/L	APHA 3125B	3.72	1.13	0.5
Iron as Fe	µg/L	APHA 3125B	0.94	<0.5	0.5
Nickel as Ni	µg/L	APHA 3125B	<0.5	<0.5	0.5
Lead as Pb	µg/L	APHA 3125B	<0.5	<0.5	0.5
Zinc as Zn	µg/L	APHA 3125B	4.49	4.96	0.5
Mercury as Hg	µg/L	USEPA 245.1 (CVAA) (1994)	<0.1	<0.1	0.1
Chlorophyll-a	µg/L	APHA 10200H (3)	1.53	0.45	0.1
Phenolic compounds (as Phenol)	mg/L	MLS SOP WQ 009 Rev 2	<0.025	<0.025	0.025
Biochemical Oxygen Demand as BOD	mg/L	APHA 5210B	<1	<1	1
Chemical Oxygen Demand as COD	mg/L	HACH Method 8000 (Oct 2014) In-house method	22	<5	5
Oil & Grease (Total)	mg/L	MLS SOP WQ 032 Rev 0 (accepted from APHA 5520C)	0.14	<0.1	0.1
Enterococci	cfu/100ml	APHA 9230C	2,600	1,200	1

Note:

1. APHA Standard Methods for Examination of Water and Wastewater (APHA 23rd Edition 2017)
2. "-" - Not applicable. The data reported is as from laboratory analytical report.

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TEST REPORT

Our Reference No	: R221493	Date Received	: 07/03/2022
Project Code / Ref.	: 60049989 - Sg Pang Sua Pang Sua Canal	Date Commenced	: 07/03/2022
		Date Reported	: 23/03/2022

Customer Ref. No. : -
Customer Name : AECOM Singapore Pte Ltd
Customer Address : 300 Beach Road
#03-00 The Concourse
Singapore 199555

Attention To : Ms Jacqueline Ong

Sample Description : 2 Water samples as per received

RESULTS : Refer to Page 2

Tan Thuan Piang
Technical Manager

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2. [illegible]
3. Multiple [illegible]

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[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

R221493

RESULTS

Test Parameter	Unit	Test Method	Sample 1 WQ4 07/03/2022	Sample 2 WQ5 07/03/2022	LOR
Total Nitrogen as TN	mg/l	APHA 4500-P (J)	0.38	0.48	0.01
Total Phosphorus as TP	mg/l	APHA 4500-P (J)	0.077	0.076	0.01
Ammonia as NH_3-N	mg/l	APHA 4500-NH_3 (H)	0.071	0.039	0.01
Nitrate as NO_3-N	mg/l	APHA 4500-NO_3 (I)	0.48	0.39	0.005
Ortho-phosphate as PO_4-P	mg/L	APHA 4500-P (G)	0.074	0.073	0.005
Total Suspended Solids as TSS	mg/l	APHA 2540D	5.10	15.7	1
Total Organic Carbon as TOC	mg/l	APHA 5310B	1.67	1.77	1
Faecal coliforms	cfu/100ml	APHA 9222C	2,100	2,500	1
Lead as Pb	µg/L	APHA 3125B	<0.5	<0.5	0.5
Biochemical Oxygen Demand as BOD	mg/l	APHA 5210B	4.33	1.13	1
Chlorophyll a	µg/L	APHA 10200H (3)	2.71	2.31	0.1
Oil & Grease (Total)	mg/l	In-house method: MLS SOP WQ-023 Rev 0 (adapted from APHA 5520C)	0.12	<0.1	0.1
Copper as Cu	µg/L	APHA 3125B	<0.5	<0.5	0.5
Zinc as Zn	µg/L	APHA 3125B	<0.5	<0.5	0.5
Mercury as Hg	µg/L	APHA 3125B	<0.1	<0.1	0.1
Cadmium as Cd	µg/L	APHA 3125B	<0.5	<0.5	0.5
Chromium as Cr	µg/L	APHA 3125B	<0.5	<0.5	0.5
Iron as Fe	µg/l	APHA 3125B	1.05	0.82	0.5
Nickel as Ni	µg/l	APHA 3125B	<0.5	<0.5	0.5
Arsenic as As	µg/L	APHA 3125B	<0.5	<0.5	0.5
Cyanide as CN	mg/l	APHA 4500-CN- (N)	<0.005	<0.005	0.005
Chemical Oxygen Demand as COD	mg/l	HACH Method 8000 (Oct 2014)	5	5	5
Chloride as Cl	mg/l	APHA 4110B	11.2	12.1	10
Barium as Ba	µg/L	APHA 3125B	<0.5	<0.5	0.5
Phenolic compounds as Phenols	mg/L	MLS SOP WQ-009 Rev 2	<0.025	<0.025	0.025
Calcium as Ca	mg/l	APHA 3120B	27.2	26.7	1.0
pH value		APHA 4500-H+ (B)	9.0	9.4	

Note.

1. APHA 23rd Standard Methods for the Examination of Water and Wastewater (APHA Oct 2017)
2. [illegible]

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TEST REPORT

Our Reference No.	: R221835	Date Received	: 18/03/2022
Project Code / Ref.	: 60649989 - Sg Pang Sua, Pang Sua Canal	Date Commenced	: 18/03/2022
		Date Reported	: 28/03/2022

Customer Ref. No. : -
Customer Name : AECOM Singapore Pte Ltd
Customer Address : 300 Beach Road
#03-00 The Concourse
Singapore 199555

Attention To : Ms Jacquelynn Chia

Sample Description : 5 Water samples as per received

RESULTS : Refer to Page 2 to Page 3

Tan Thuan Piang
Technical Manager

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Branch (Plant Laboratory): 216 Tuas South Ave 2, West Point Building Singapore 637513 : +65 6262 3736 (Lab) : +65 6262 3736 / 3773 (Office)
Website: www.mls.sg

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RESULTS

Test Parameter	Unit	Test Method	Sample 1	Sample 2	LOR
			WQ9	WQ9A	
			15/03/2022	15/03/2022	
pH value	-	APHA 4500-H+ (B)	7.8	7.9	-
Total Suspended Solids as TSS	mg/L	APHA 2540D	45.3	17.7	1
Total Organic Carbon as TOC	mg/L	APHA 5310B	2.93	2.94	1
Total Nitrogen as TN	mg/L	APHA 4500-P (J)	1.24	1.09	0.01
Total Phosphorus as TP	mg/L	APHA 4500-P (J)	0.10	0.090	0.01
Nitrate as NO_3-N	mg/L	APHA 4500-NO_3 (I)	0.35	0.36	0.005
Ammonia as NH_3-N	mg/L	APHA 4500-NH_3 (H)	0.41	0.38	0.01
Orthophosphates as PO_4-P	mg/L	APHA 4500-P (G)	0.099	0.085	0.005
Chloride as Cl	mg/L	APHA 4110B	7,707	3,959	10
Cyanide as CN	mg/L	APHA 4500-CN- (N)	<0.005	<0.005	0.005
Arsenic as As	µg/L	APHA 3125B	7.50	8.64	0.5
Barium as Ba	µg/L	APHA 3125B	25.8	37.8	0.5
Calcium as Ca	µg/L	APHA 3120B	198,470	126,153	1.0
Cadmium as Cd	µg/L	APHA 3125B	<0.5	<0.5	0.5
Chromium as Cr	µg/L	APHA 3125B	<0.5	<0.5	0.5
Copper as Cu	µg/L	APHA 3125B	0.62	0.71	0.5
Iron as Fe	µg/L	APHA 3125B	18.7	12.9	0.5
Nickel as Ni	µg/L	APHA 3125B	1.37	<0.5	0.5
Lead as Pb	µg/L	APHA 3125B	<0.5	<0.5	0.5
Zinc as Zn	µg/L	APHA 3125B	9.22	8.65	0.5
Mercury as Hg	µg/L	APHA 3125B	<0.1	<0.1	0.1
Chlorophyll-a	µg/L	APHA 10200H (3)	6.11	3.08	0.1
Phenolic compounds (as Phenol)	mg/L	MLS-SOP-WQ-009 Rev 2	<0.025	<0.025	0.025
Biochemical Oxygen Demand as BOD	mg/L	APHA 5210B	<1	<1	1
Chemical Oxygen Demand as COD	mg/L	MLS SOP WQ 029 Rev (0)	<5	<5	5
Oil & Grease (Total)	mg/L	In-house method MLS-SOP-WQ-033 Rev 0 (adapted from APHA 5520C)	0.46	0.50	0.1
Enterococcus	cfu/100mL	APHA 9230C	60	130	1

Note:

1. APHA is a standard method for Determination of Water and Waste Water (APHA 23rd Edition, 2017)
2. '<' = Less than. The data reported is less than Detection Limit of the test

R221835

RESULTS

Test Parameter	Unit	Test Method	Sample 3 WQ10 18/03/2022	Sample 4 WQ10A 18/03/2022	Sample 5 WQ11A 18/03/2022	LOR
pH value	-	APHA 4500-H+ (B)	7.9	7.7	8.0	
Total Suspended Solids as TSS	mg/L	APHA 2540D	32.8	15.0	9.10	1
Total Organic Carbon as TOC	mg/L	APHA 5310B	3.01	3.77	3.88	1
Total Nitrogen as TN	mg/L	APHA 4500-P (J)	1.29	1.59	1.21	0.01
Total Phosphorus as TP	mg/L	APHA 4500-P (J)	0.10	0.052	0.11	0.01
Nitrate as NO_3-N	mg/L	APHA 4500-NO_3 (I)	0.37	0.84	0.59	0.005
Ammonia as NH_3-N	mg/L	APHA 4500-NH_3 (H)	0.34	0.54	0.37	0.01
Orthophosphates as PO_4-P	mg/L	APHA 4500-P (E)	0.098	0.049	0.094	0.005
Chloride as Cl	mg/L	APHA 4110B	7,276	1,905	1,294	10
Cyanide as CN	mg/L	APHA 4500-CN- (N)	<0.005	<0.005	<0.005	0.005
Arsenic as As	µg/L	APHA 3125B	7.51	1.09	1.72	0.5
Barium as Ba	µg/L	APHA 3125B	29.2	61.0	67.1	0.5
Calcium as Ca	µg/L	APHA 3120B	157,527	85,955	115,409	1.0
Cadmium as Cd	µg/L	APHA 3125B	<0.5	<0.5	<0.5	0.5
Chromium as Cr	µg/L	APHA 3125B	<0.5	<0.5	<0.5	0.5
Copper as Cu	µg/L	APHA 3125B	<0.5	0.90	<0.5	0.5
Iron as Fe	µg/L	APHA 3125B	13.9	15.6	10.6	0.5
Nickel as Ni	µg/L	APHA 3125B	1.27	<0.5	<0.5	0.5
Lead as Pb	µg/L	APHA 3125B	<0.5	<0.5	<0.5	0.5
Zinc as Zn	µg/L	APHA 3125B	6.28	3.08	0.63	0.5
Mercury as Hg	µg/L	APHA 3125B	<0.1	<0.1	<0.1	0.1
Chlorophyll-a	µg/L	APHA 10200H (3)	6.99	1.22	1.68	0.1
Phenolic compounds (as Phenol)	mg/L	MLS SOP WC 009 Rev 2	<0.025	<0.025	<0.025	0.025
Biochemical Oxygen Demand as BOD	mg/L	APHA 5210B	<1	<1	<1	1
Chemical Oxygen Demand as COD	mg/L	MLS-SOP-WC-029 Rev (C)	<5	8.00	<5	5
Oil & Grease (Total)	mg/L	In-house method MLS-SOP-WC-033 Rev C (adapted from APHA 5520C)	<0.1	0.14	0.30	0.1
Enterococcus	cfu/100ml	APHA 9230C	100	3,200	260	1

Note:

1. APHA is a standard method for Determination of Water and Waste Water (APHA 23rd Edition 2017)
2. "<" = Less than. The data reported is less than Detection Limit of the test.

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TEST REPORT

Our Reference No.	:	R221871	Date Received	:	21.03.2022
Project Code / Ref	:	80049889 - Sg Pang Sua Pang Sua Canal	Date Commenced	:	21.03.2022
			Date Reported	:	31.03.2022
Customer Ref. No.	:	-			
Customer Name	:	AECOM Singapore Pte Ltd			
Customer Address	:	300 Beach Road #03-00 The Concourse Singapore 199555			
Attention To		Ms Jacqualyn Ong			
Sample Description	:	3 Water samples as per received			
RESULTS	:	Refer to Page 2			

Tan Thuan Piang
Technical Manager

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R221871

RESULTS

Test Parameter	Unit	Test Method	Sample 1 WQ6 21/03/2022	Sample 2 WQ7 21/03/2022	Sample 3 WQ8 21/03/2022	LOR
pH value	-	APHA 4500-H+ (B)	7.3	8.1	7.6	
Total Suspended Solids as TSS	mg/L	APHA 2540D	23.7	2.30	3.30	1
Total Organic Carbon as TOC	mg/L	APHA 5310B	5.39	4.05	4.46	1
Total Nitrogen as TN	mg/L	APHA 4500-P (J)	1.40	0.90	1.08	0.01
Total Phosphorus as TP	mg/L	APHA 4500-P (J)	0.13	0.093	0.10	0.01
Nitrate as NO_3-N	mg/L	APHA 4500-NO_3 (I)	0.11	0.28	0.25	0.005
Ammonia as NH_3-N	mg/L	APHA 4500-NH_3 (H)	0.52	0.23	0.43	0.01
Orthophosphates as PO_4-P	mg/L	APHA 4500-P (G)	0.085	0.072	0.098	0.005
Chloride as Cl	mg/L	APHA 4110B	4s.3	1,036	3,612	1
Cyanide as CN	mg/L	APHA 4500-CN- (N)	<0.005	<0.005	<0.005	0.005
Arsenic as As	µg/L	APHA 3125B	2.54	142	10.0	0.5
Barium as Ba	µg/L	APHA 3125B	23.8	27.8	35.0	0.5
Calcium as Ca	µg/L	APHA 3120B	19,065	30,414	57,013	1.0
Cadmium as Cd	µg/L	APHA 3125B	<0.5	<0.5	<0.5	0.5
Chromium as Cr	µg/L	APHA 3125B	<0.5	<0.5	<0.5	0.5
Copper as Cu	µg/L	APHA 3125B	1.75	1.38	1.07	0.5
Iron as Fe	µg/L	APHA 3125B	23.4	13.6	11.6	0.5
Nickel as Ni	µg/L	APHA 3125B	<0.5	<0.5	1.48	0.5
Lead as Pb	µg/L	APHA 3125B	<0.5	<0.5	<0.5	0.5
Zinc as Zn	µg/L	APHA 3125B	12.2	2.39	14.6	0.5
Mercury as Hg	µg/L	APHA 3125B	<0.1	<0.1	<0.1	0.1
Chlorophyll a	µg/L	APHA 10200H (3)	3.19	1.11	2.02	0.1
Phenolic compounds (as Phenol)	mg/L	MLS-SOP-WQ-009 Rev 2	<0.025	0.028	<0.025	0.025
Biochemical Oxygen Demand as BOD	mg/L	APHA 5210B	5.1	<1	<1	1
Chemical Oxygen Demand as COD	mgO_2/L	HACH Method 8000 (Oct 2014) Increase method	28	720	3,40	5
Oil & Grease (total)	mg/L	MLS-SOP-WQ-005 Rev 0 (adapted from APHA 5520C)	0.30	<0.1	0.21	0.1
Enterococcus	cfu/100mL	APHA 9230C	3,400	3,000	470	-

Notes.

1. APHA 2012, standard method for Determination of Water and Waste Water (APHA 23rd edition, 2017)
2. [illegible] Results reported as [illegible] (Not for use)

Appendix P

Baseline Air Quality Monitoring Report

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right partner.

Our Ref: SG2203214

Date: 06 April 2022

EIS FOR FUTURE PROJECT IN BUKIT PANJANG AREA

FOR

AECOM SINGAPORE PTE LTD
300 BEACH ROAD #23-00 THE CONCOURSE
SINGAPORE 199555

Yong Li Sheng
Field Engineer

Tan Teong Huat
Assistant General Manager (ENV)

The results reported herein have been performed in accordance with the terms of accreditation under the Singapore Accreditation Council and comply with the requirements specified in ISO/IEC 17025. This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The laboratory declares that the test results relate only to the items tested. This report may not be reproduced except with prior written approval from the testing laboratory and shall not be used for advertising purposes.

Executive Summary

ALS Technichem (S) Pte Ltd is appointed by AECOM Singapore Pte Ltd to carry out EIS for Future Project in Bukit Panjang Area. The monitoring was undertaken to determine the ambient air quality of Particulate Matter as 2.5um and 10um ($PM_{2.5}$ and PM_{10}) at 5 locations and Nitrogen Dioxide (NO_2) at 3 locations for 7 days continuously. The monitoring on these locations was conducted from 28 February to 23 March 2022. The objective of this monitoring is to establish a baseline ambient air quality at the selected location as part of the environmental impact assessment requirements. It also aimed to determine whether it is in compliance with the limits stipulated by Singapore Ambient Air Quality Targets by 2020 and Long Term Targets whichever is more stringent.

In general, the monitoring results of $PM_{2.5}$, and PM_{10} were found to be satisfactory and in compliance to Singapore Ambient Air Quality Targets by 2020 and Singapore Ambient Air Quality Long Term Targets.

Likewise, the monitoring results of NO_2 were found to be satisfactory and in compliance to Singapore Ambient Air Quality Targets by 2020.

It should be noted that the Ambient Air Monitoring project was carried out to the best of our knowledge and ability as well as responsibility towards the code of practice in the performance and reliability of our business to be accurate, precise and representative at the date/time and locations sampled so as to achieve a satisfactory baseline study.

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List of Abbreviations

PM_{10}	Particulate matter with aerodynamic diameter less than 10µm
$PM_{2.5}$	Particulate matter with aerodynamic diameter less than 2.5µm
μgm^{-3}	Microgram per cubic metre
mgm^{-3}	Miligram per cubic metre
LOR	Limit of Reporting

1.0 Monitoring Requirement

1.1 Introduction

ALS Technichem (S) Pte Ltd (hereafter as "ALS") has been appointed as the contractor to perform Ambient Air Quality Monitoring at a selected location for the Bukit Panjang Area at the request of AECOM Singapore Pte Ltd (hereafter as "AECOM").

The ambient air monitoring is aimed to provide an air quality baseline information on the targeted area which was pre-determined by AECOM and to evaluate the results whether it is in compliance against National Environmental Agency- Singapore Ambient Air Quality Targets by 2020 and the Long Term Targets whichever is more stringent.

1.2 Scope of Work

The scope of works for the ambient air quality monitoring includes:

1. Preparation of an Ambient Air Monitoring Plan;

2. Ambient air monitoring station setup and sampling at selected sampling points, identified as AM 01, AM02, AM03, AM04 and AM05 (sampling point was dictated by AECOM with pollutants measured reference to Table 2.1, page 5);

3. Collected air samples were analysed for:
   - Particulate Matter as 10um and 2.5um (PM_{10} & $PM_{2.5}$);
   - Nitrogen Dioxide (NO_2);

4. Assessing the analytical results against Singapore Ambient Air Quality Targets by 2020 and the Long Term Targets;

5. Providing a report outlining the findings and results of the study.

1.3 Monitoring Requirement

Ambient air monitoring was conducted at a selected locations of Bukit Panjang Area. Particulate Matter as 10um and 2.5um (PM_{10} & $PM_{2.5}$) and Nitrogen Dioxide (NO_2) were monitored. Monitored parameters were dictated by AECOM and compared with the Singapore Ambient Air Quality Targets by 2020 and Singapore Air Quality Long Term Targets whichever is more strigent. Table 1 lists the details of the limits of each parameter in this study.

Table 1.1: Summary of test parameters and limits for ambient air monitoring

Parameters	Limits (mgm^{-3} or μgm^{-3})	Guidelines
$PM_{2.5}$	37.5 μgm^{-3} (24-hour averaging period) 25 μgm^{-3} (24-hour averaging period)*	Singapore Ambient Air Quality Targets by 2020
PM_{10}	50 μgm^{-3} (24-hour averaging period)	
Nitrogen Dioxide (NO_2)	200 μgm^{-3} (1-hour averaging period)	

*Note: * denotes Singapore Air Quality Long Term Targets*

2.0 Sampling and Field Monitoring

2.1 Sampling Equipment

The following equipment was mobilized and used during the environmental monitoring activities.

Parameter	Instrument Type
Particulate matter (PM_{10} & $PM_{2.5}$)	TSI Environmental DustTrak Monitoring System
Nitrogen Dioxide (NO_2)	Aeroqual Series 500 – Portable Air Quality Monitor. Gaseous is continuously drawn and analyzed using Gas Sensitive Electrochemical Sensors (GSE)

2.2 Monitoring Location (★ indicates air monitoring location)

Figure 2.1: Bukit Panjang Project Air Monitoring Locations

2.3 Detail Ambient Air Monitoring Points

The air monitoring point identified as AM 01, AM02, AM03, AM04 & AM05 was dictated by AECOM. The details of the monitoring points are listed in Table 2.1 below.

Table 2.1: Details of monitoring points

Sampling ID	Monitoring Point	Parameter	Sampling Start		Sampling Stop	
			Date	Time (hr)	Date	Time (hr)
AM 01	Near 18 Sungei Kadut Street 2	PM_{10} & $PM_{2.5}$ (24 hours)	16 Mar 2022	1200	23 Mar 2022	1200
		NO_2 (1 hour)				
AM 02	HDB Blk 691B Choa Chu Kang Crescent	PM_{10} & $PM_{2.5}$ (24 hours)	08 Mar 2022	1500	13 Mar 2022	1500
		NO_2 (1 hour)				
		PM_{10} & $PM_{2.5}$ (24 hours)	14 Mar 2022	1000	16 Mar 2022	1000
		NO_2 (1 hour)				
AM 03	Choa Chu Kang Rail Corridor	PM_{10} & $PM_{2.5}$ (24 hours)	07 Mar 2022	1400	14 Mar 2022	1400
AM 04	Near Gali Batu Train Depot	PM_{10} & $PM_{2.5}$ (24 hours)	28 Feb 2022	1100	07 Mar 2022	1100
AM 05	Near Sungei Pang Sua	PM_{10} & $PM_{2.5}$ (24 hours)	28 Feb 2022	1150	07 Mar 2022	1150
		NO_2 (1 hour)				

3.0 Sampling and Analysis Methodology

Brief method description, method reference and reporting limit of the analytical methods are provided in Table 3.

Table 3.1: Summary of methodologies and limit of reporting (LOR)

No.	Parameter	Referenced Analytical Method	Description of Method	LOR
1.	Particulate matter (PM_{10} & $PM_{2.5}$)	TSI Environmental DustTrak Monitoring System Operation Manual	Concentrations of PM_{10} & $PM_{2.5}$ were measured by Light scattering laser photometer principle using an Environmental DustTrak Monitoring Equipment coupled with heated inlet for 5 minutes interval data log over 7 days continuous sampling period	1.0 μgm^{-3}
2.	Nitrogen Dioxide (NO_2)	Aeroqual Series 500 – Portable Air Quality Monitor Operation Manual	Aeroqual Series 500 – Portable Air Quality Monitor. Gaseous is continuously drawn and analyzed using Gas Sensitive Electrochemical Sensors (GSE) for 5 minutes interval data over 7 days continuous sampling period	10 μgm^{-3}

3.1 Quality Assurance / Quality Control

The certificates of field equipment calibrations are attached in Appendix 1.

4.0 Results of Monitoring at AM 01

Table 4.1: Summary of results for Nitrogen Dioxide as NO_2 based on hourly average at AM 01

Sampling Point	Duration, hr	Nitrogen Dioxide, μgm^{-3}							Limits, μgm^{-3}
		16 to 17 Mar 2022	17 to 18 Mar 2022	18 to 19 Mar 2022	19 to 20 Mar 2022	20 to 21 Mar 2022	21 to 22 Mar 2022	22 to 23 Mar 2022	
AM 01 Near 18 Sungei Kadut Street 2	1200 - 1300	10.7	21.0	<10.0	<10.0	28.8	15.2	44.0	200
	1300 - 1400	21.5	19.3	<10.0	<10.0	22.4	<10.0	68.0	
	1400 – 1500	38.9	53.3	<10.0	<10.0	10.7	21.8	62.7	
	1500 – 1600	10.3	49.5	<10.0	<10.0	18.0	39.5	69.0	
	1600 – 1700	53.3	95.6	<10.0	<10.0	<10.0	59.4	68.0	
	1700 – 1800	55.5	50.0	16.3	<10.0	19.9	62.2	57.0	
	1800 – 1900	95.2	59.9	37.5	<10.0	36.5	68.2	33.0	
	1900 – 2000	102	63.8	51.1	78.5	67.9	79.2	73.0	
	2000 – 2100	102	88.6	29.9	93.3	63.5	74.3	64.6	
	2100 – 2200	62.1	73.7	58.8	57.4	71.2	79.8	54.4	
	2200 – 2300	59.7	71.2	75.3	46.4	49.5	71.8	54.7	
	2300 – 0000	67.9	76.0	71.6	40.4	50.8	77.3	46.9	
	0000 – 0100	65.3	56.4	66.9	45.7	64.8	71.3	39.0	
	0100 – 0200	57.4	52.1	63.2	42.6	56.3	67.1	42.5	
	0200 – 0300	51.9	55.5	59.6	34.5	38.7	61.1	43.3	
	0300 – 0400	55.0	49.2	67.9	34.2	60.4	55.5	39.0	
	0400 – 0500	50.5	42.0	54.7	38.1	15.8	49.2	38.7	
	0500 – 0600	46.3	100	51.9	31.8	22.9	45.3	38.4	
	0600 – 0700	64.8	31.4	30.7	39.7	37.2	48.0	31.4	
	0700 – 0800	87.4	21.8	38.6	36.7	37.0	47.3	38.3	
	0800 – 0900	52.6	14.0	57.0	31.8	34.0	42.0	37.2	
	0900 – 1000	21.64	10.7	50.3	51.6	16.0	22.9	32.0	
	1000 – 1100	<10.0	<10.0	<10.0	19.4	48.0	19.8	<10.0	
	1100 – 1200	19.1	<10.0	10.0	17.7	56.8	<10.0	17.1	

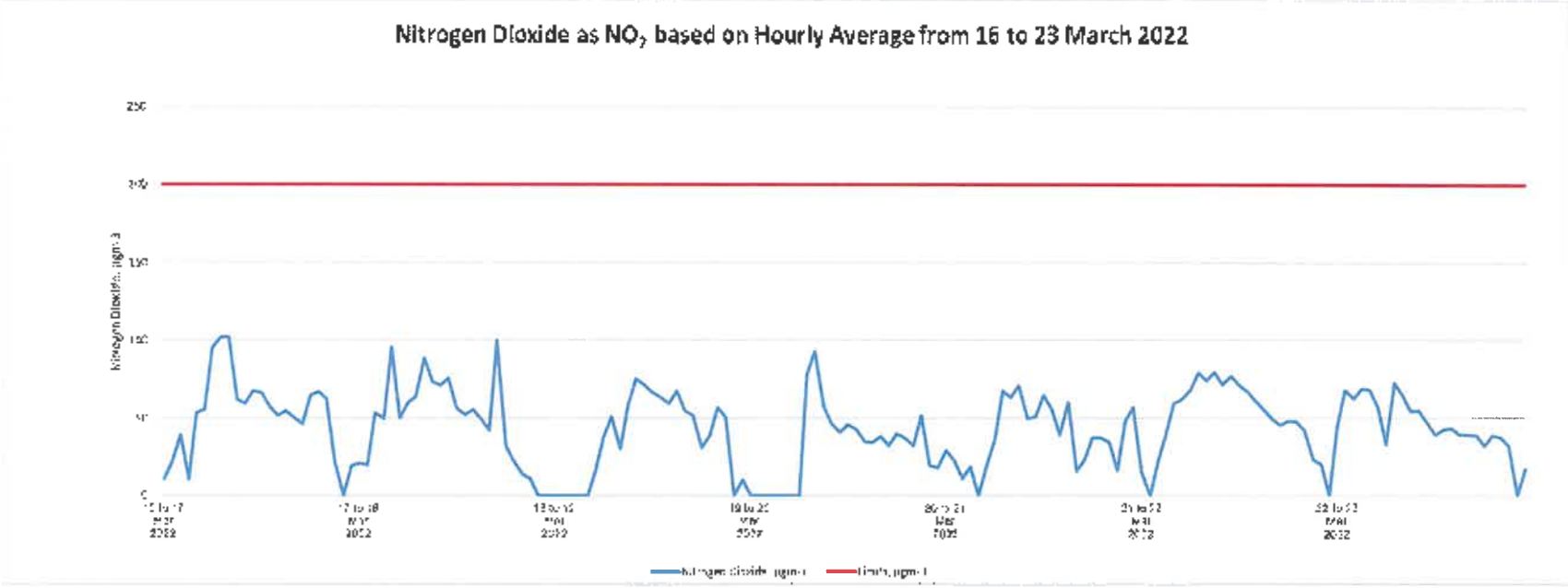


Figure 4.1: Hourly Average for NO_2 at AM 01 from 16 to 23 March 2022

Table 4.2: Summary of results for Particulate Matter as $PM_{2.5}$, and PM_{10} based on 24-hour average at AM 01

Sampling Point	Day	Particulate Matter ($PM_{2.5}$), μgm^{-3}	Particulate Matter (PM_{10}), μgm^{-3}
AM 01 Near 18 Sungei Kadut Street 2	16 to 17 March 2022	24.1	27.8
	17 to 18 March 2022	12.2	15.5
	18 to 19 March 2022	8.60	11.8
	19 to 20 March 2022	14.3	17.4
	20 to 21 March 2022	10.6	13.8
	21 to 22 March 2022	12.5	17.8
	22 to 23 March 2022	15.0	20.1
Limits (μgm^{-3})		**37.5[a]**	**50[a]**
		25[b]	**NA**

Notes:

[a] Denotes results are compared to the limits stipulated by Singapore Ambient Air Quality Targets by 2020.

[b] Denotes the results are compared to the limits stipulated by Singapore Ambient Air Quality Long Term Targets

NA denotes Not Available

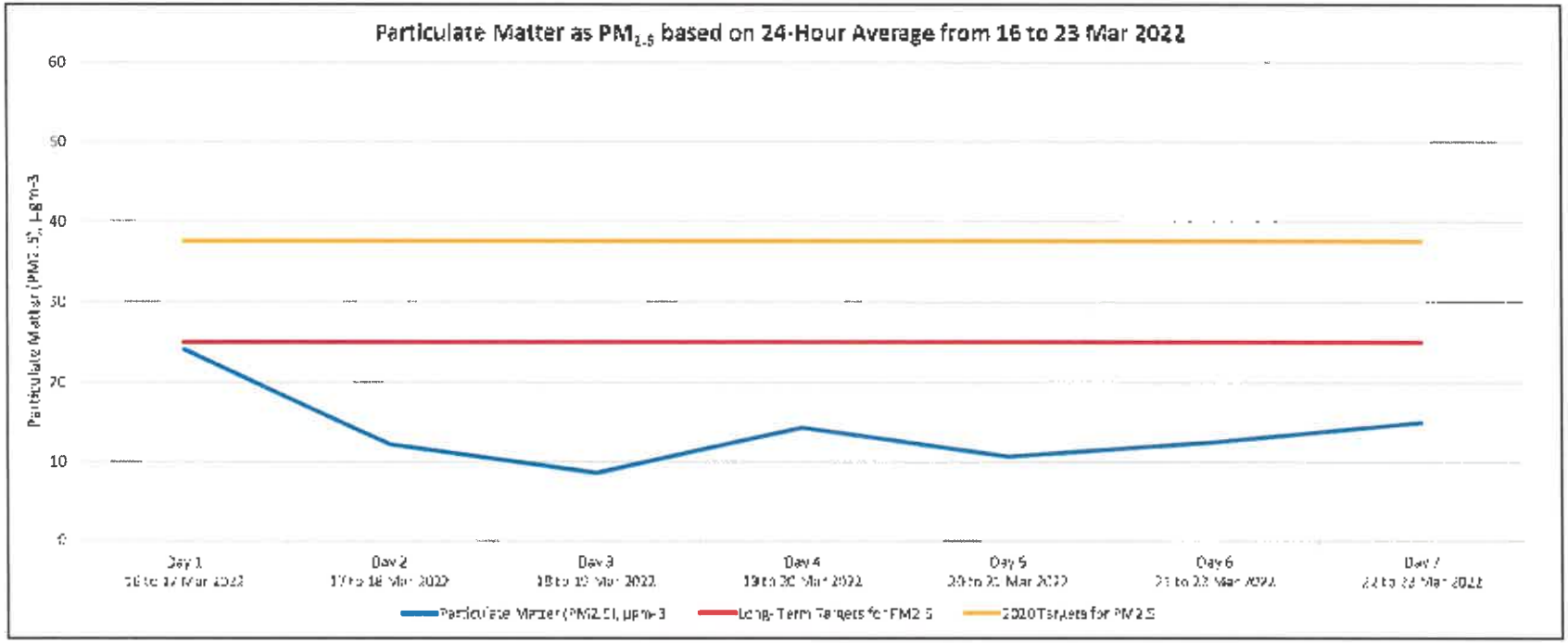


Figure 4.2: 24-Hour Average for $PM_{2.5}$ at AM 01 from 16 to 23 March 2022

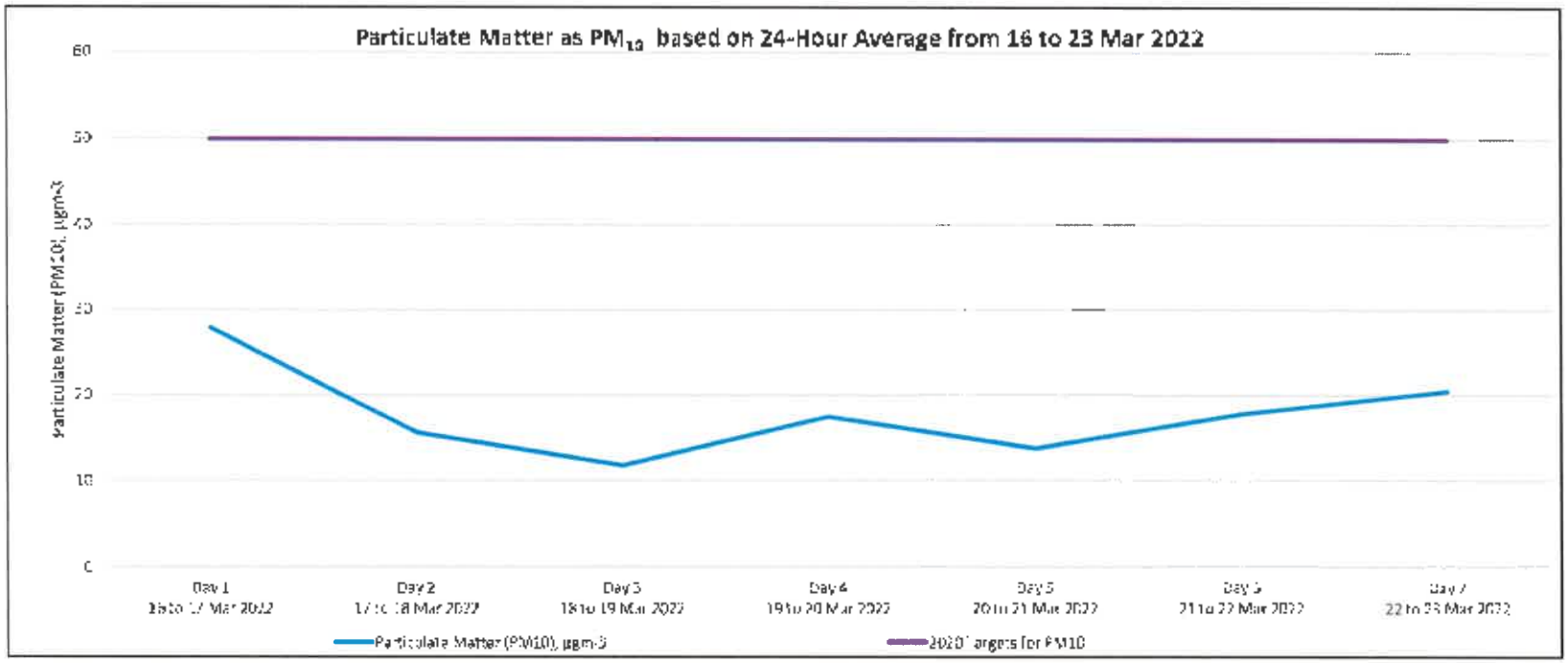


Figure 4.3: 24-Hour Average for PM_{10} at AM 01 from 16 to 23 March 2022

4.1 Results of Monitoring at AM 02

Table 4.3: Summary of results for Nitrogen Dioxide as NO_2 based on hourly average at AM 02

Sampling Point	Duration, hr	Nitrogen Dioxide, μgm^{-3}					Duration, hr	Nitrogen Dioxide, μgm^{-3}		Limits, μgm^{-3}
		08 to 09 Mar 2022	09 to 10 Mar 2022	10 to 11 Mar 2022	11 to 12 Mar 2022	12 to 13 Mar 2022		14 to 15 Mar 2022	15 to 16 Mar 2022	
AM 02 HDB Blk 691B Choa Chu Kang Crescent	1500 – 1600	81.7	21	<10.0	<10.0	<10.0	1000 – 1100	<10.0	<10.0	200
	1600 – 1700	48.6	27.9	59.6	67.4	78.1	1100 – 1200	<10.0	<10.0	
	1700 – 1800	54.7	26.3	136	111	102	1200 – 1300	19.9	82.2	
	1500 – 1600	47.7	36.1	101	64.1	83.6	1300 – 1400	54.1	132	
	1600 – 1700	35.5	53.8	18.8	35.6	46.7	1400 – 1500	75.3	100	
	1700 – 1800	47.5	43.0	35.6	84.0	30.1	1500 – 1600	65.2	69.0	
	1800 – 1900	48.7	31.8	35.6	64.4	<10.0	1600 – 1700	73.8	66.0	
	1900 – 2000	31.2	25.6	27.6	25.9	29.9	1700 – 1800	17.2	74.0	
	2000 – 2100	38.7	19.9	29.9	22.4	46.6	1800 – 1900	35.1	72.0	
	2100 – 2200	32.0	18.5	31.4	28.4	47.3	1900 – 2000	49.4	64.8	
	2200 – 2300	35.3	19.1	30.6	25.1	45.2	2000 – 2100	52.8	57.5	
	2300 – 0000	28.4	32.1	11.4	34.2	39.2	2100 – 2200	39.5	45.9	
	0000 – 0100	30.1	23.2	25.7	45.7	36.4	2200 – 2300	30.4	53.5	
	0100 – 0200	52.4	23.4	20.1	10.5	33.2	2300 – 0000	30.4	51.6	
	0200 – 0300	45.0	35.3	22.4	10.3	35.0	0000 – 0100	25.7	48.4	
	0300 – 0400	44.2	36.7	25.6	16.5	31.2	0100 – 0200	15.4	48.7	
	0400 – 0500	42.3	33.7	21.2	30.6	27.1	0200 – 0300	13.2	38.6	
	0500 – 0600	22.1	29.0	27.0	20.2	<10.0	0300 – 0400	12.7	38.6	
	0600 – 0700	<10.0	17.2	<10.0	<10.0	<10.0	0400 – 0500	17.2	39.4	
	0700 – 0800	<10.0	<10.0	<10.0	<10.0	<10.0	0500 – 0600	17.9	38.8	
	0800 – 0900	14.9	26.0	<10.0	<10.0	<10.0	0600 – 0700	36.0	36.8	
	0900 – 1000	<10.0	32.6	<10.0	<10.0	<10.0	0700 – 0800	36.8	34	
	1000 – 1100	19.3	<10.0	<10.0	<10.0	<10.0	0800 – 0900	23.7	36.1	
	1100 – 1200	21.5	<10.0	<10.0	<10.0	<10.0	0900 – 1000	<10.0	26.6	

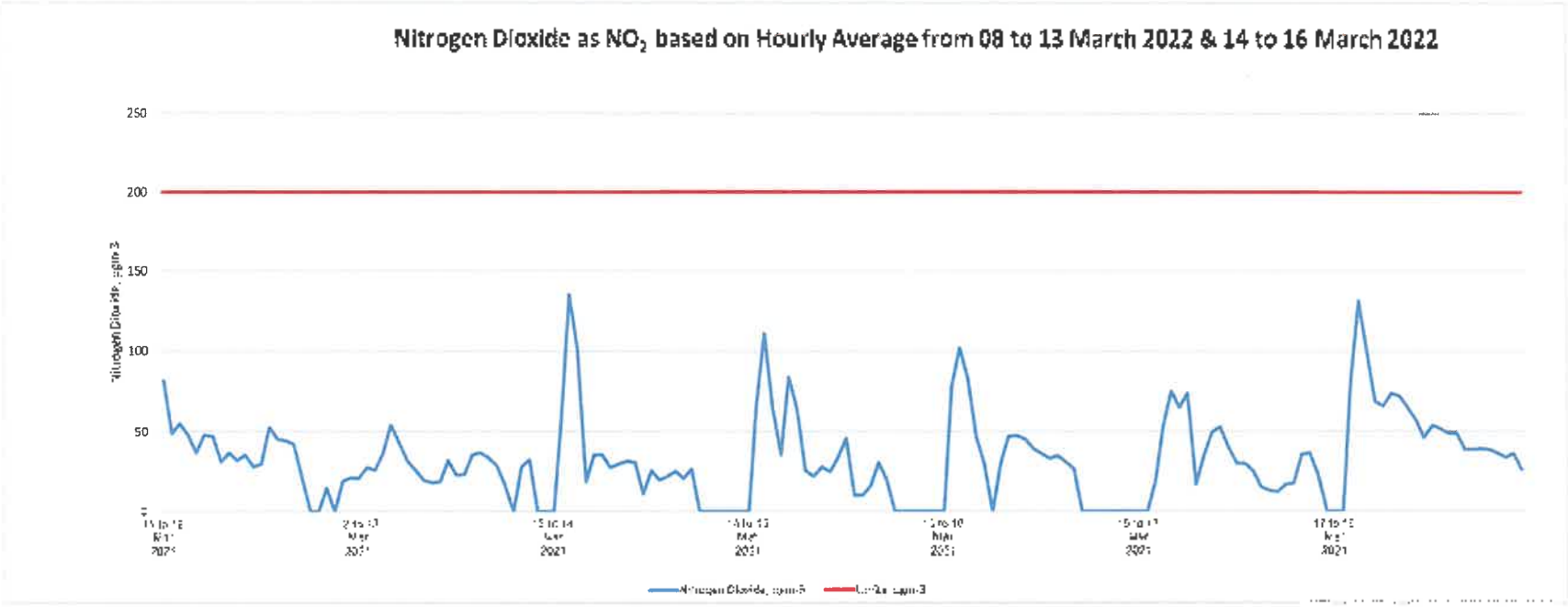


Figure 4.4: Hourly Average for NO_2 at AM 02 from 08 to 13 March 2022 and 14 to 16 March 2022

Table 4.4: Summary of results for Particulate Matter as $PM_{2.5}$, and PM_{10} based on 24-hour average at AM 02

Sampling Point	Day	Particulate Matter ($PM_{2.5}$), μgm^{-3}	Particulate Matter (PM_{10}), μgm^{-3}
AM 02 HDB Blk 691B Choa Chu Kang Crescent	08 to 09 March 2022	6.81	8.80
	09 to 10 March 2022	8.50	12.8
	10 to 11 March 2022	12.1	18.9
	11 to 12 March 2022	24.8	30.4
	12 to 13 March 2022	19.4	24.4
	14 to 15 March 2022	16.5	20.2
	15 to 16 March 2022	17.6	21.0
Limits (μgm^{-3})		37.5[a]	50[a]
		25[b]	NA

Notes:

[a] Denotes results are compared to the limits stipulated by Singapore Ambient Air Quality Targets by 2020.

[b] Denotes the results are compared to the limits stipulated by Singapore Ambient Air Quality Long Term Targets

NA denotes Not Available

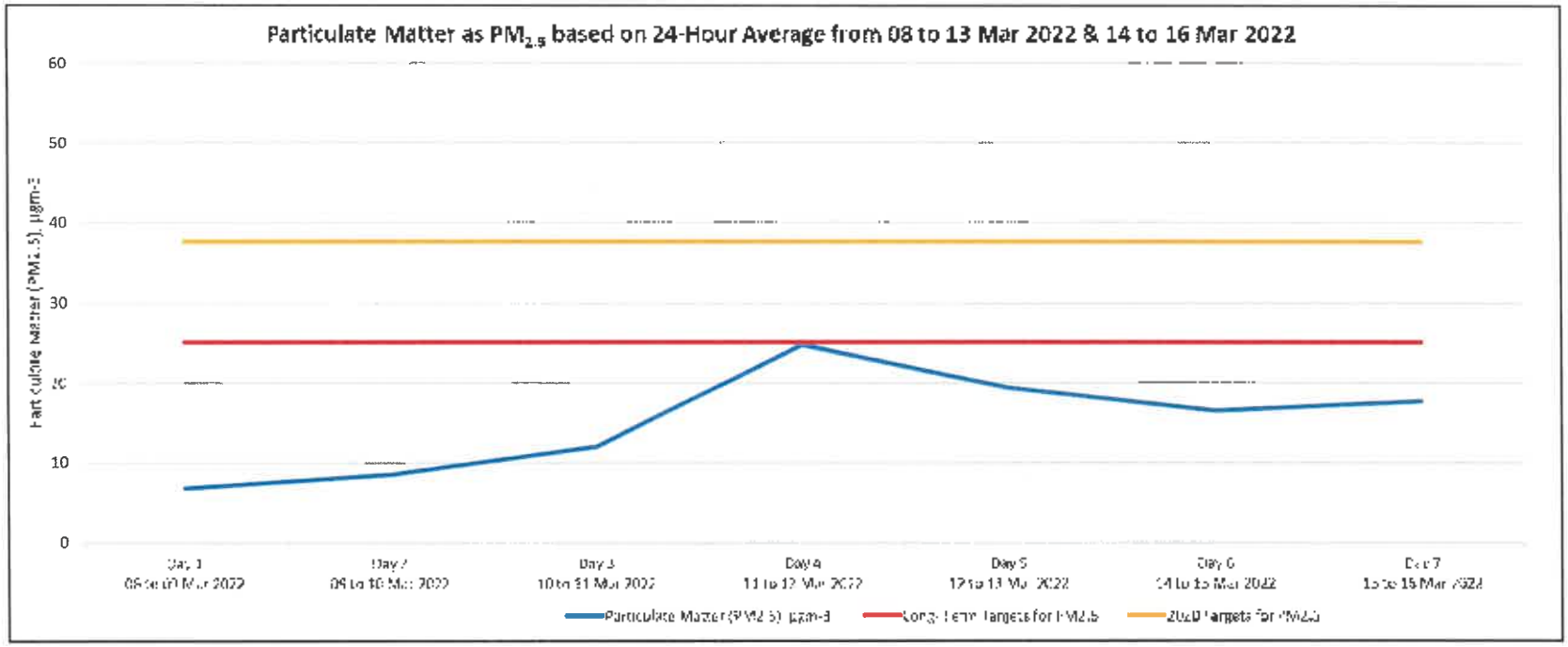


Figure 4.5: 24-Hour Average for $PM_{2.5}$ at AM 02 from 08 to 13 March 2022 and 14 to 16 March 2022

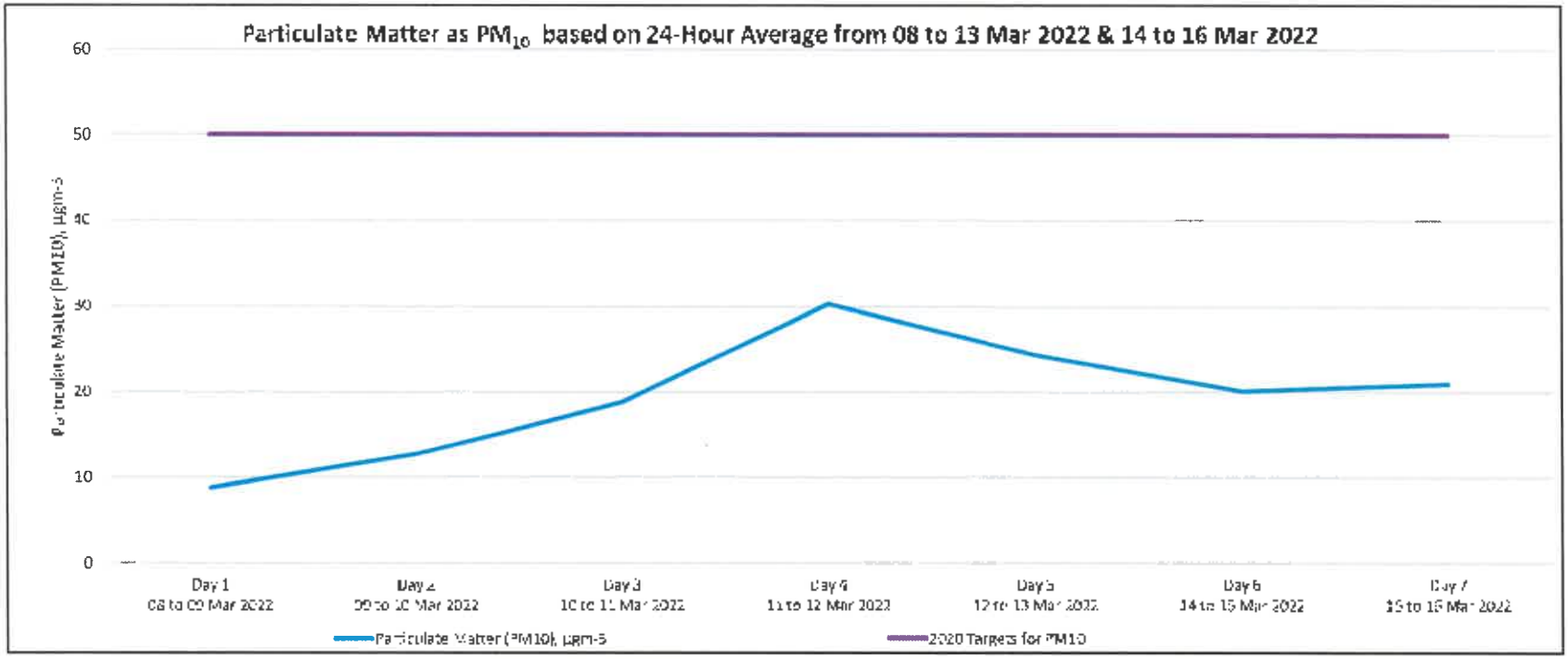


Figure 4.6: 24-Hour Average for PM_{10} at AM 02 from 08 to 13 March 2022 and 14 to 16 March 2022

4.2 Results of Monitoring at AM 03

Table 4.5: Summary of results for Particulate Matter as $PM_{2.5}$, and PM_{10} based on 24-hour average at AM 03

Sampling Point	Day	Particulate Matter ($PM_{2.5}$), μgm^{-3}	Particulate Matter (PM_{10}), μgm^{-3}
AM 03 Choa Chu Kang Rail Corridor	07 to 08 March 2022	10.7	14.1
	08 to 09 March 2022	5.80	8.50
	09 to 10 March 2022	8.90	12.0
	10 to 11 March 2022	12.7	17.1
	11 to 12 March 2022	20.6	25.1
	12 to 13 March 2022	19.6	24.5
	13 to 14 March 2022	9.20	11.3
Limits (μgm^{-3})		**37.5[a]**	**50[a]**
		25[b]	**NA**

Notes:

[a] Denotes results are compared to the limits stipulated by Singapore Ambient Air Quality Targets by 2020.

[b] Denotes the results are compared to the limits stipulated by Singapore Ambient Air Quality Long Term Targets

NA denotes Not Available

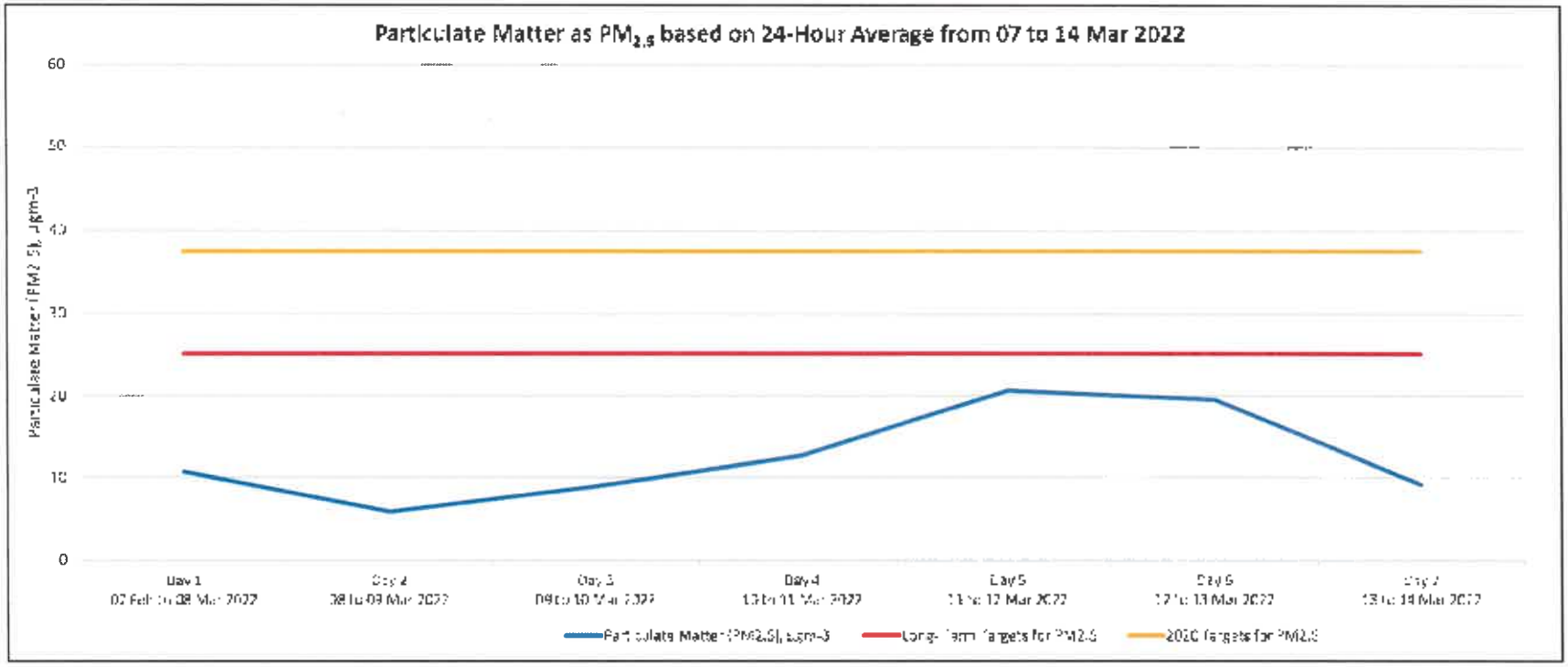


Figure 4.7: 24-Hour Average for $PM_{2.5}$ at AM 03 from 07 February to 14 March 2022

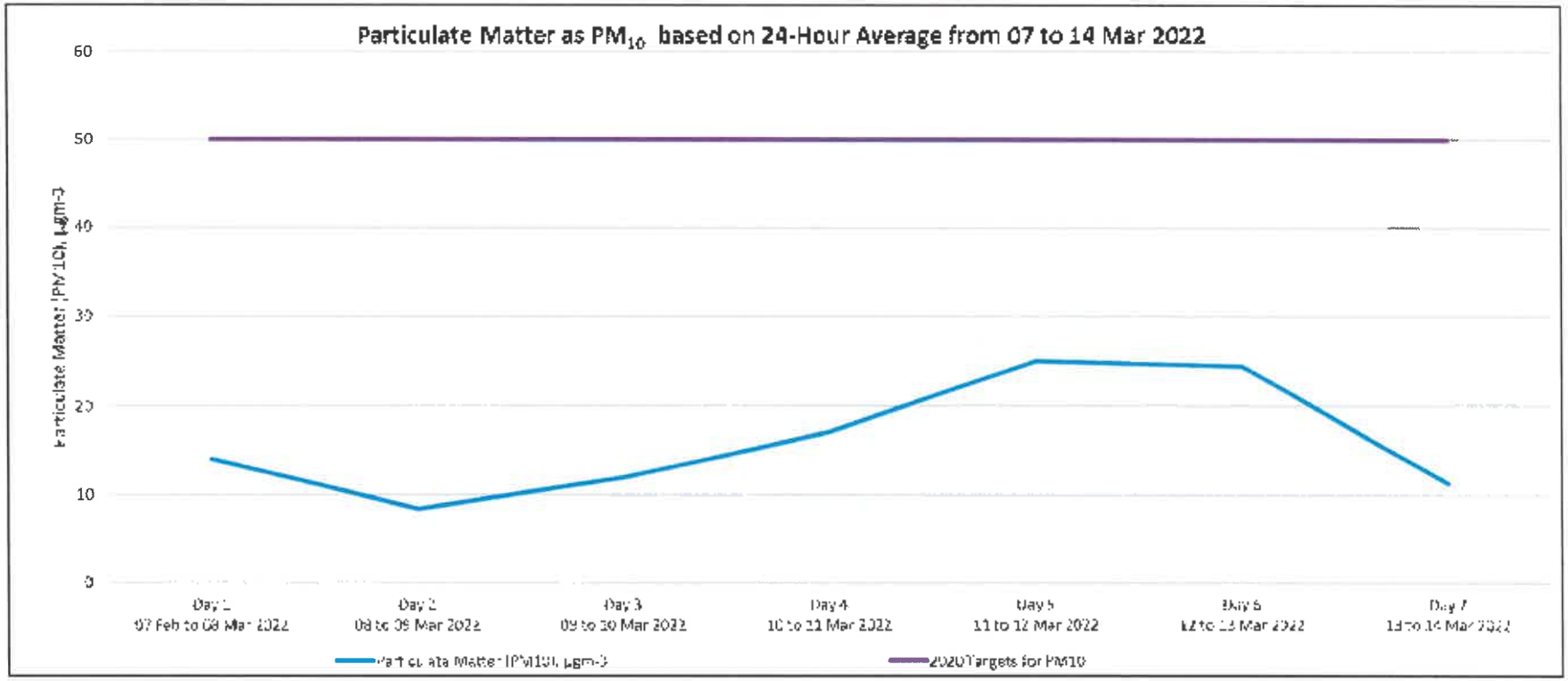


Figure 4.8: 24-Hour Average for PM_{10} at AM 03 from 07 to 14 March 2022

4.3 Results of Monitoring at AM 04

Table 4.6: Summary of results for Particulate Matter as $PM_{2.5}$, and PM_{10} based on 24-hour average at AM 04

Sampling Point	Day	Particulate Matter ($PM_{2.5}$), μgm^{-3}	Particulate Matter (PM_{10}), μgm^{-3}
AM 04 Near Gali Batu Train Depot	28 Feb to 01 Mar 2022	11.7	15.8
	01 to 02 Mar 2022	15.1	22.4
	02 to 03 Mar 2022	13.6	19.5
	03 to 04 Mar 2022	9.83	14.7
	04 to 05 Mar 2022	4.62	7.97
	05 to 06 Mar 2022	10.2	15.8
	06 to 07 Mar 2022	6.50	9.00
Limits (μgm^{-3})		**37.5[a]**	**50[a]**
		25[b]	**NA**

Notes:

[a] Denotes results are compared to the limits stipulated by Singapore Ambient Air Quality Targets by 2020.

[b] Denotes the results are compared to the limits stipulated by Singapore Ambient Air Quality Long Term Targets

NA denotes Not Available

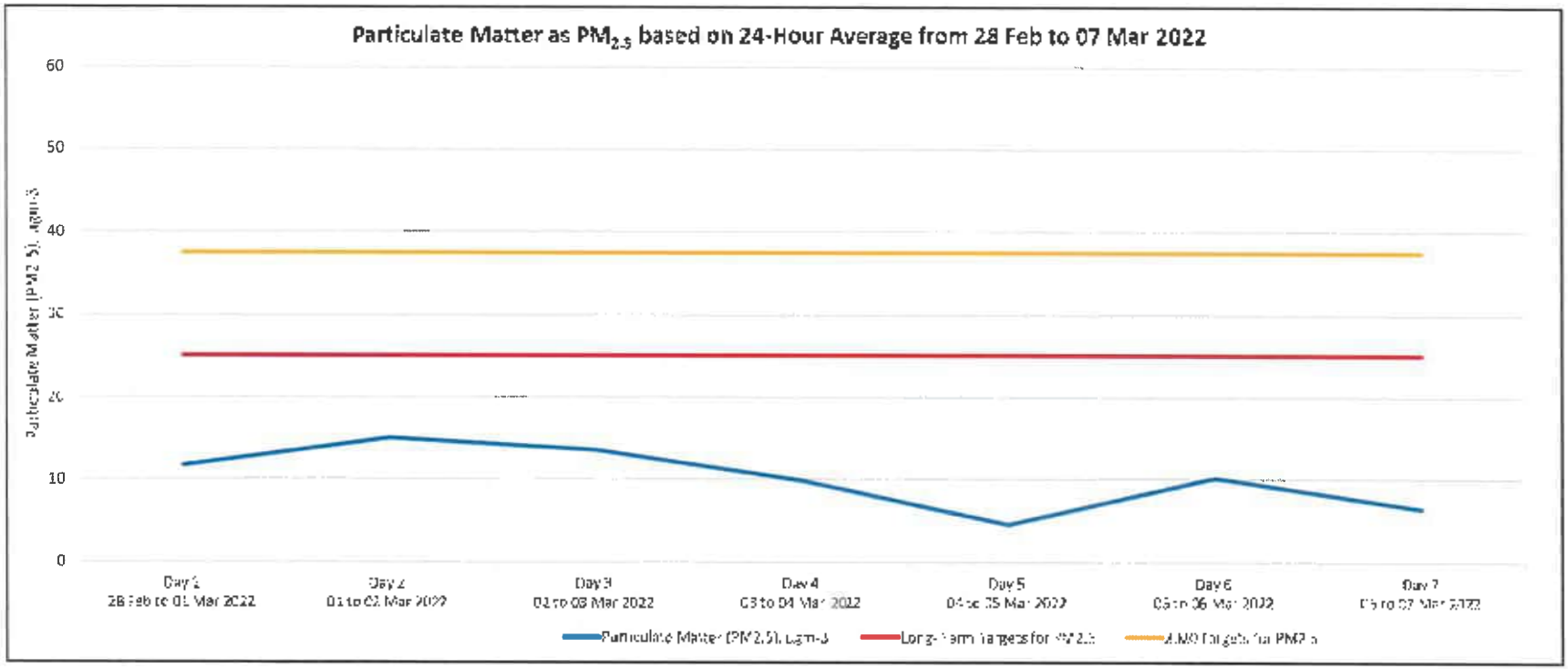


Figure 4.9: 24-Hour Average for $PM_{2.5}$ at AM 04 from 28 February to 07 March 2022

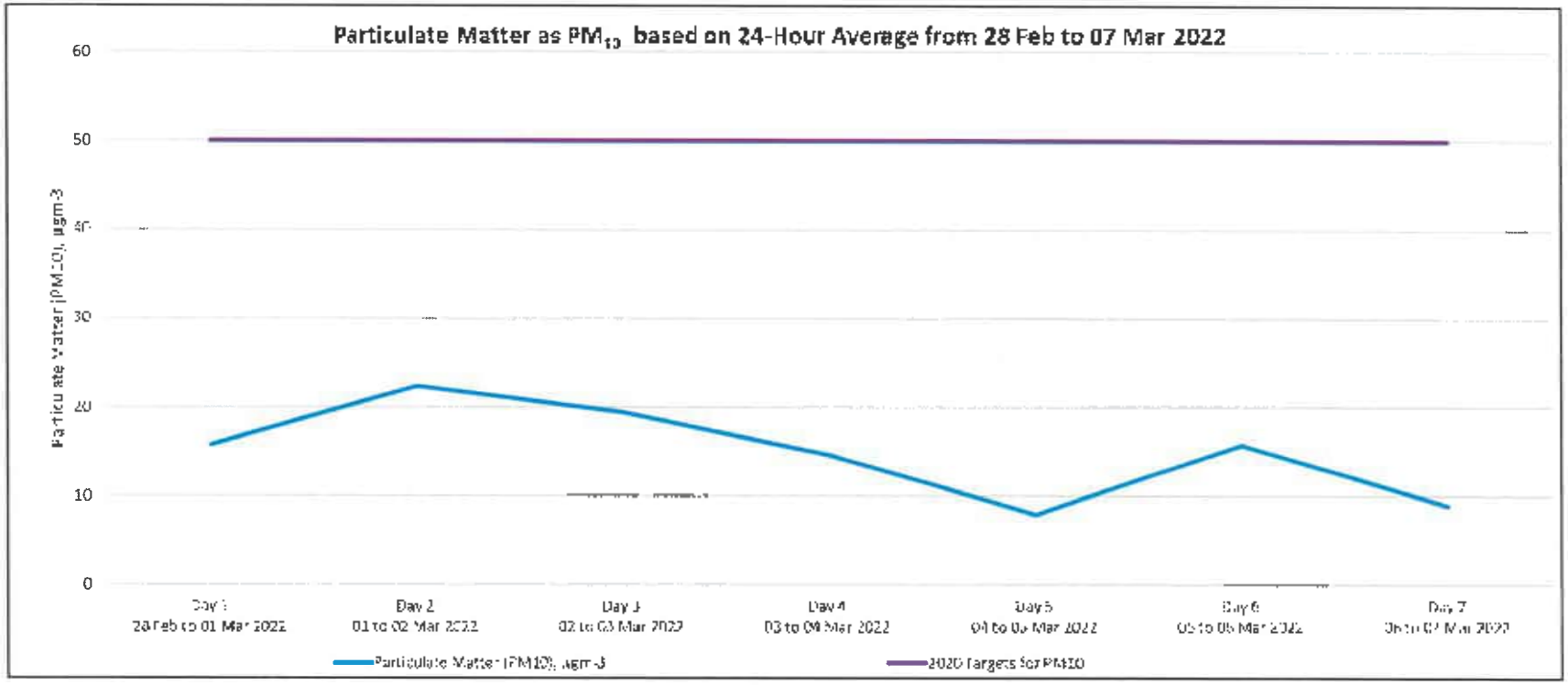


Figure 4.10: 24-Hour Average for PM_{10} at AM 04 from 28 February to 07 March 2022

4.4 Results of Monitoring at AM 05

Table 4.7: Summary of results for Nitrogen Dioxide as NO_2 based on hourly average at AM 05

Sampling Point	Duration, hr	Nitrogen Dioxide, μgm^{-3}							Limits, μgm^{-3}
		26 to 01 Mar 2022	01 to 02 Mar 2022	02 to 03 Mar 2022	03 to 04 Mar 2022	04 to 05 Mar 2022	05 to 06 Mar 2022	06 to 07 Mar 2022	
AM 05 Near Sungei Pang Sua	1200 – 1300	14.4	18.0	<10.0	<10.0	11.4	<10.0	14.0	200
	1300 – 1400	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
	1400 – 1500	<10.0	27.1	<10.0	<10.0	12.2	<10.0	<10.0	
	1500 – 1600	17.2	23.6	60.5	<10.0	15.4	27.6	<10.0	
	1600 – 1700	28.8	37.0	118	42.0	19.3	56.2	<10.0	
	1700 – 1800	33.6	75.0	84.3	117	17.1	57.5	<10.0	
	1800 – 1900	54.2	51.9	61.9	66.5	39.7	82.6	93.0	
	1900 – 2000	53.1	60.4	46.7	50.3	42.6	72.9	110	
	2000 – 2100	46.6	35.7	49.1	51.3	50.2	54.9	69.0	
	2100 – 2200	39.5	41.9	38.4	29.5	46.1	35.7	82.2	
	2200 – 2300	51.3	37.5	35.9	35.0	34.6	36.2	42.0	
	2300 – 0000	51.3	33.4	38.7	36.1	31.5	40.4	27.6	
	0000 – 0100	51.6	32.0	31.2	45.7	27.0	33.1	30.9	
	0100 – 0200	44.2	27.0	28.7	32.8	20.2	29.6	34.2	
	0200 – 0300	40.1	23.2	21.9	26.7	26.2	30.4	36.5	
	0300 – 0400	32.5	29.8	20.1	25.2	24.6	26.5	35.6	
	0400 – 0500	24.5	24.9	20.2	24.1	22.9	21.6	27.4	
	0500 – 0600	25.2	19.6	25.7	21.9	27.3	24.6	18.4	
	0600 – 0700	29.2	24.6	22.5	21.3	22.6	24.1	27.8	
	0700 – 0800	36.1	28.4	21.8	21.5	30.0	19.4	33.6	
	0800 – 0900	33.1	31.0	29.0	22.6	27.6	19.0	37.5	
	0900 – 1000	16.8	12.1	13.3	<10.0	<10.0	15.6	12.0	
	1000 – 1100	<10.0	<10.0	<10.0	<10.0	<10.0	16.1	<10.0	
	1100 – 1200	14.6	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	

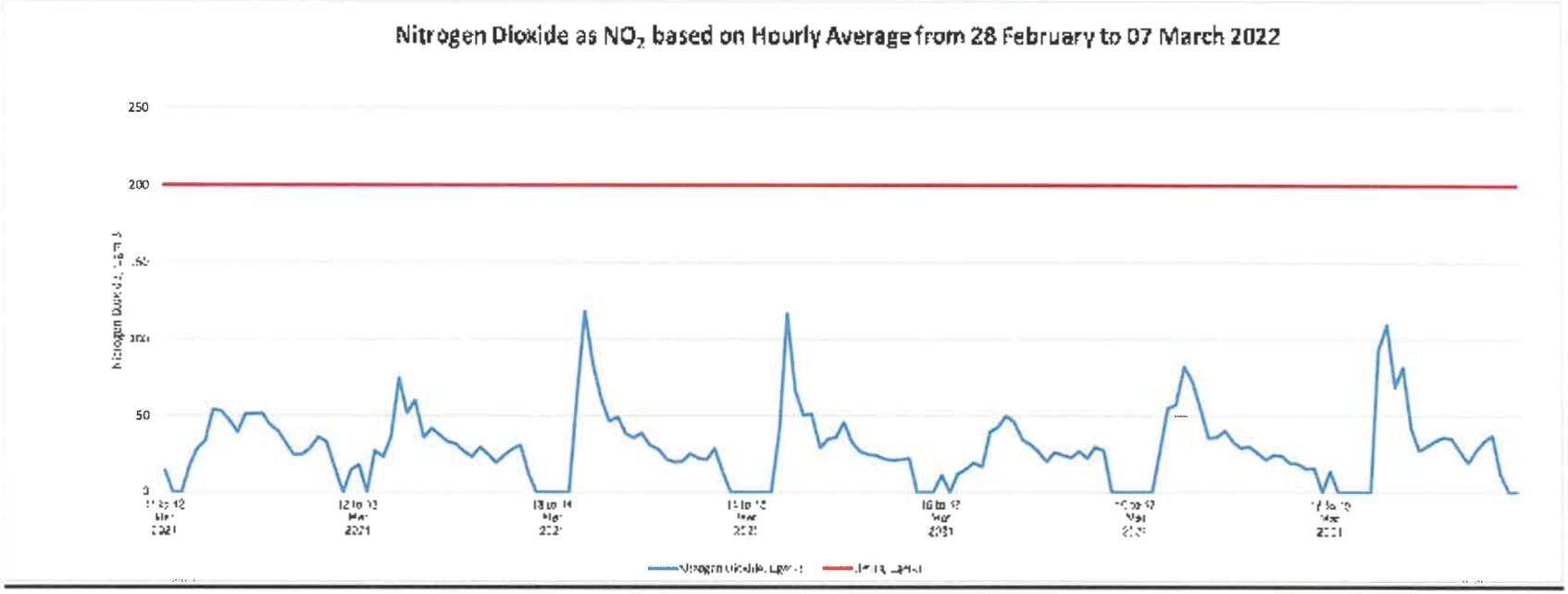

Nitrogen Dioxide as NO_2 based on Hourly Average from 28 February to 07 March 2022
250
200
50
0

Table 4.8: Summary of results for Particulate Matter as $PM_{2.5}$, and PM_{10} based on 24-hour average at AM 05

Sampling Point	Day	Particulate Matter ($PM_{2.5}$), μgm^{-3}	Particulate Matter (PM_{10}), μgm^{-3}
AM 05 Near Sungei Pang Sua	28 Feb to 01 Mar 2022	17.3	24.4
	01 to 02 Mar 2022	24.1	32.3
	02 to 03 Mar 2022	14.7	21.2
	03 to 04 Mar 2022	23.2	33.8
	04 to 05 Mar 2022	6.60	9.91
	05 to 06 Mar 2022	13.2	17.2
	06 to 07 Mar 2022	15.0	17.5
Limits (μgm^{-3})		**37.5[a]**	**50[a]**
		25[b]	**NA**

Notes

[a] Denotes results are compared to the limits stipulated by Singapore Ambient Air Quality Targets by 2020.

[b] Denotes the results are compared to the limits stipulated by Singapore Ambient Air Quality Long Term Targets

NA denotes Not Available

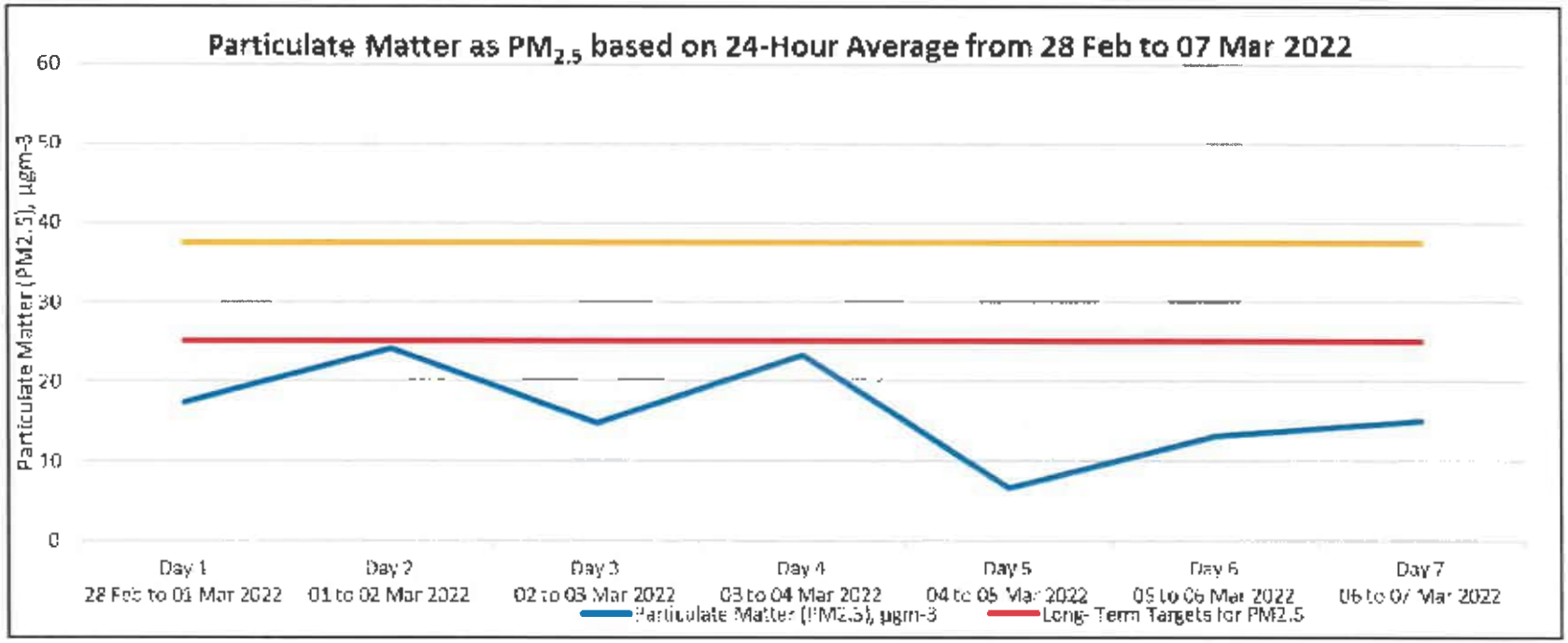


Figure 4.11: 24-Hour Average for $PM_{2.5}$ at AM 05 from 28 February to 07 March 2022

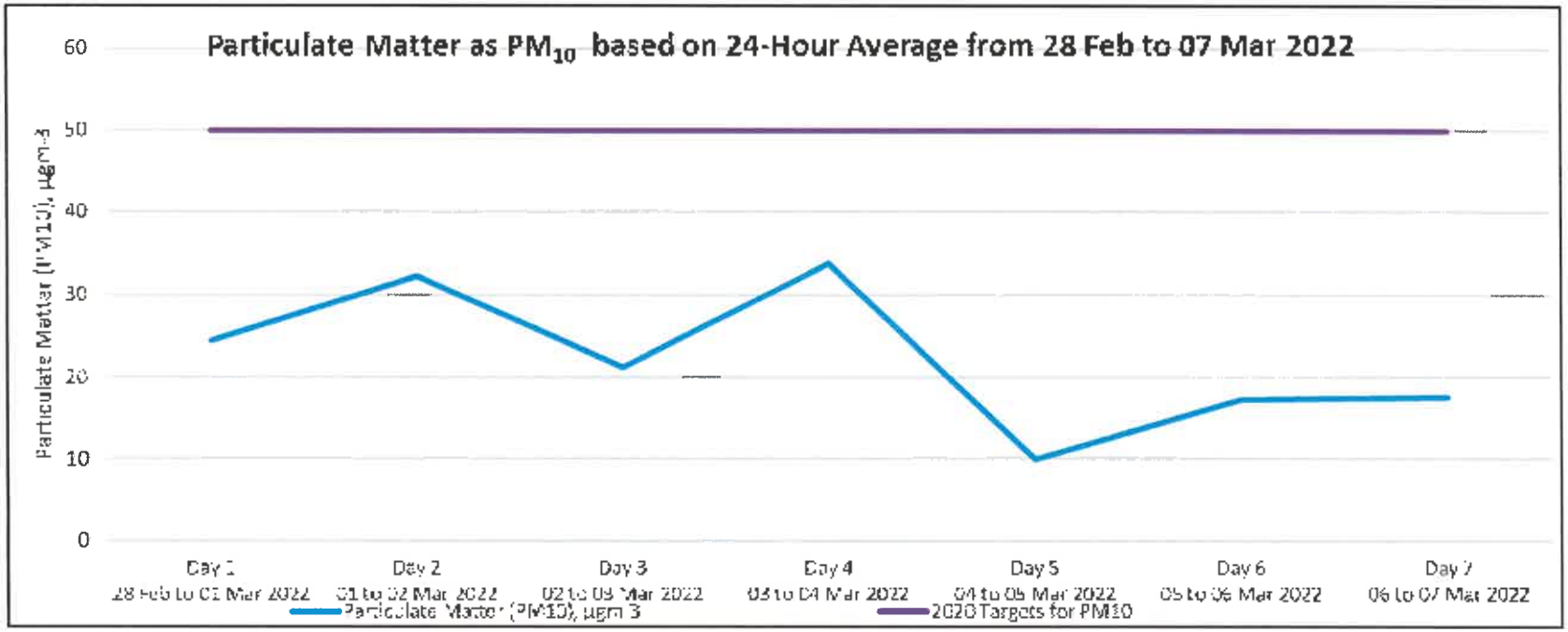


Figure 4.12: 24-Hour Average for PM_{10} at AM 05 from 28 February to 07 March 2022

5.0 Conclusion

Based on the finding, the results for respective measured parameters as summarized in Tables 4-1 through 4-8 were found to be satisfactory and in compliance with Singapore Ambient Air Quality Targets by 2020 and Singapore Ambient Air Quality Long Term Targets whichever is more stringent.

In general, the monitoring results of $PM_{2.5}$ and PM_{10} were found to be satisfactory and in compliance to Singapore Ambient Air Quality Targets by 2020 and Singapore Ambient Air Quality Long Term Targets.

Likewise, the monitoring results of NO_2 were found to be satisfactory and in compliance to Singapore Ambient Air Quality Targets by 2020.

It should be noted that the Ambient Air Quality Monitoring project was carried out to the best of our knowledge and ability as well as responsibility towards the code of practice in the performance and reliability of our business to be accurate, precise and representative at the date/time and locations sampled so as to achieve a satisfactory baseline study.

APPENDIX 1: Site Photos

AM01

AM02

AM03

AM04

AM05

Appendix 1: Equipment Calibration Certificates

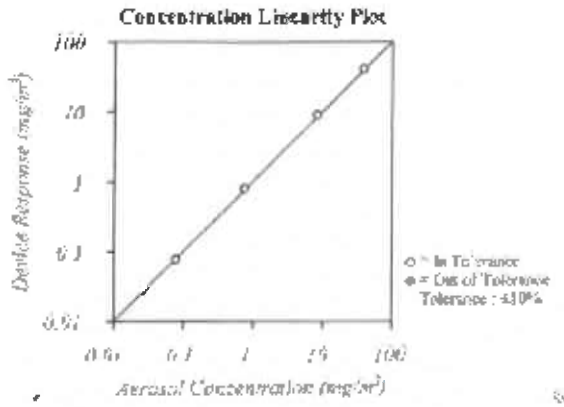
CERTIFICATE OF CALIBRATION AND TESTING

TSI Singapore Pte Ltd 150, Kampong Ampat
#04-05, KA Centre Singapore 368324
Phone: +65 6595 6391

Environment Conditions		
Temperature	23.0	°C
Relative Humidity	53	%RH
Barometric Pressure	1006.1	hPa

Model	8543
Serial Number	8543192904

☒ As Left ☒ In Tolerance
☐ As Found ☐ Out of Tolerance



System ID: 0TT194-01

FLOW AND PRESSURE VERIFICATION — SYSTEM 0TT194-01

Parameter	Standard	Measured	Allowable Range	Parameter	Standard	Measured	Allowable Range
Flow lpm	3.00	3.00	2.88 – 3.12	Pressure kPa	100.4	100.4	95.26 – 105.36
Total Flow lpm	9.4	6.23	>3.30				

TSI Incorporated does hereby certify that all monitors, components, and instrumentation used in the manufacture of this equipment are in strict accordance with the applicable specifications agreed upon by TSI and the customer and with all published specifications. All performance and acceptance tests required under this contract were successfully conducted according to required specifications. There is no NIST standard for optical mass measurements. Calibration of this instrument performed by TSI has been done using equipment and has been normally referred to reputable mass of standard ISO 12103-1, A1 test dust (Arizona dust). The calibration test is greater than ±2%

Measurement Variable	System ID	Last Cal.	Cal. Due	Measurement Variable	System ID	Last Cal.	Cal. Due
DC Voltage	E020127	12-05-21	31-05-22	Pressure	E020125	26-07-22	31-01-23
Manifold Line	E020125	26-07-22	31-01-23	Pressure	E020114	01-03-22	30-09-22
Flowmeter	E020139	29-04-21	30-04-22	3 psi PSL	206359	n/a	n/a
1 psi PSL	698880	n/a	n/a	16 psi PSL	212455	n/a	n/a

23 March 2022

Technician — Date

ALS TECHNICHEM (S) PTE LTD

30 Mar 2022

CERTIFICATE OF CALIBRATION AND TESTING

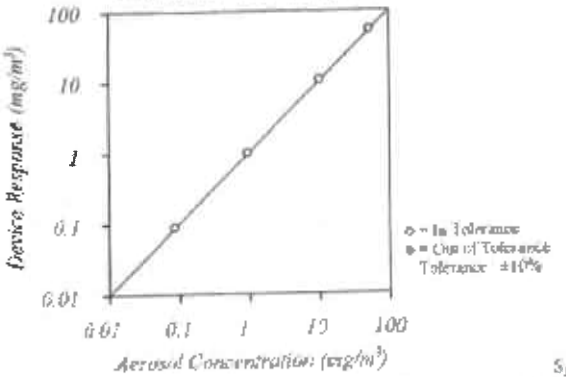
TSI Singapore Pte Ltd 150, Kampong Ampat
#05-05, KA Centre Singapore 368324
Phone: +65 6595 6391

Environment Conditions		
Temperature	22.6	°C
Relative Humidity	48	%RH
Barometric Pressure	1007.1	hPa

Model	8543
Serial Number	8543205101

☒ As Left ☒ In Tolerance
☐ As Found ☐ Out of Tolerance

Concentration Linearity Plot



System ID: D3H04-01

SYSTEM D3H04-01

FLOW AND PRESSURE VERIFICATION							
Parameter	Standard	Measured	Allowable Range	Parameter	Standard	Measured	Allowable Range
Flow lpm	3.00	3.10	2.88 ~ 3.12	Pressure kPa	100.8	100.9	95.76 ~ 105.84
TSI Flow lpm	N/A	3.08	2.80 ~ 3.80				

TSI Incorporated does hereby certify that all materials, components, and workmanship used in the manufacture of this equipment are in strict accordance with the applicable specifications agreed upon by TSI and the customer and with all published specifications. All performance and acceptance tests required under this contract were successfully conducted according to required specifications. There is no NIST standard for optical data measurements. Calibration of this instrument performed by TSI has been done using equipment that has been normally calibrated to recognized sets of standards ISO 17025-1. All test data (Acceptance data). Our calibration ratio is greater than 1:4.

Measurement Variable	System ID	Last Cal.	Cal. Due
DC Voltage	E020115	14-01-21	31-01-22
Microbalance	E020125	27-01-20	31-01-22
3 um PSL	206030	n/a	n/a
Pressure	E020123	29-01-21	31-01-22

Measurement Variable	System ID	Last Cal.	Cal. Due
Photometer	E020114	13-08-21	28-02-22
1 um PSL	698880	n/a	n/a
10 um PSL	212455	n/a	n/a
Flowmeter	E020119	29-04-21	30-04-22

Mukhlis Zakariah
Calibrated

10 January, 2022
Date

TECHNICHEM (S) PTE LTD
Reviewed By
20 JAN 2022

TSI DSI F200-51

Appendix Q

List of Air Quality Human Sensitive Receptors

Appendix Q – List of Air Quality Human Sensitive Receptors

Table Q-1: Air Sensitive Receptors for Demolition Works

Distance	Land Use	Number of Receivers	Sensitivity of the Area
Within 20m	Commercial: 1. Matsushita House 2. Trendspace Industrial: 1. 15, 17, 20A Sungei Kadut Way 2. 19, 33, 39 Sungei Kadut Avenue 3. 21, 23A, 27 Sungei Kadut Street 1 4. 8, 29, 38 Sungei Kadut Street 2 5. 3 Sungei Kadut Street 3	10-100 >100	Priority 1
Between 20m to 50m	Commercial: 1. Matsushita House 2. Sungei Kadut Fire Post 3. Trendspace Industrial: 1. 6, 19, 22, 31, 33, 39, 45, 46 Sungei Kadut Avenue 2. 5, 15, 16A, 17, 18, 20, 20A Sungei Kadut Way 3. 21, 23, 23A, 23F, 27, 34 Sungei Kadut Street 1 4. 8, 15, 29, 38 Sungei Kadut Street 2 5. 3, 6 Sungei Kadut Street 3	10-100 >100	
Between 50m to 100m	Place of Worship: 1. Sri Arasakesari Sivan Temple Commercial: 1. Grandwork Building 2. Sungei Kadut Fire Post 3. BHL Factories 4. Mandai Connection 5. Eurokars Centre 6. Gali Batu Depot 7. 566 Woodlands Road Industrial: 1. 21, 23, 23F, 23H, 25, 25A, 27, 34, 36 Sungei Kadut Street 1 2. 6, 8, 15, 18, 25, 29, 31, 38 Sungei Kadut Street 2 3. 3, 4, 6, 10 Sungei Kadut Street 3 4. 6, 8, 14, 22, 31, 33, 39, 45, 46, 48 Sungei Kadut Avenue 5. 5, 15, 16, 16A, 17, 18, 20 Sungei Kadut Way 6. 359 Woodlands Road	10-100 >100 >100	
Between 100m to 200m	Educational Institution: 1. Yew Tee Primary School Healthcare: 1. MSW Nursing Home (Yew Tee)	>100 10-100	

Distance	Land Use	Number of Receivers	Sensitivity of the Area
	Place of Worship: 1. Sri Arasakesari Sivan Temple	10-100	
	Residential: 1. The Windermere 2. The Quintet 3. 690, 690B, 690C, 690D, 691, 691A, 691B, 692A, 692B Choa Chu Kang Crescent 4. 687A, 687B, 687C, 687D, 688A Choa Chu Kang Drive	>100	
	Commercial: 1. Sungei Kadut Fire Post 2. Sunray Building 3. Grandwork Building 4. LUXX Newhouse Design Centre 5. Mandai Connection 6. 566 Woodlands Road 7. M-Space 8. BHL Factories 9. Eurokars Centre 10. Gali Batu Depot 11. 692 Choa Chu Kang Crescent 12. 687 Choa Chu Kang Drive 13. 88, 90, 92, 94, 96 Mandai Estate	>100	
	Industrial: 1. 23H, 25, 25J, 27, 31, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 42A, 43, 44 Sungei Kadut Street 1 2. 4, 6, 15, 18, 25, 31, 38 Sungei Kadut Street 2 3. 1, 2, 3, 4, 6, 10, 14, 15 Sungei Kadut Street 3 4. 1A, 3, 5, 7, 9 Sungei Kadut Street 4 5. 6, 8, 14, 16, 18, 20, 21, 22, 45, 48, 48A Sungei Kadut Avenue 6. 6 Mandai Link 7. 1, 3, 5, 12, 14, 16, 18 Sungei Kadut Way 8. 359 Woodlands Road 9. 6A Mandai Estate	>100	
Between 200m to 350m	Educational Institution: 1. Yew Tee Primary School	>100	
	Healthcare: 1. MSW Nursing Home (Yew Tee)	>100	
	Residential: 1. Yew Mei Green 2. The Windermere 3. The Quintet 4. Regent Grove 5. 641 Choa Chu Kang Street 64 6. 656, 657, 661, 662, 663, 664, 685, 685B, 685C, 686A, 686B, 686C, 686D, 688C, 690A, 690C, 690D, 691, 691A, 691B, 692A, 692B Choa Chu Kang Crescent	>100	

Distance	Land Use	Number of Receivers	Sensitivity of the Area
	7. 688, 688A, 688B, 689A, 689B Choa Chu Kang Drive Commercial: 1. Star Building 2. Tiong Aik Building 3. Tac Centre 4. Avenue Engineering Building 5. LUXX Newhouse Design Centre 6. Mandai Food Link 7. 300, 566 Woodlands Road 8. Mandai Connection 9. M-Space 10. 8, 80, 82, 84, 86, 88, 90, 92 Mandai Estate 11. West Life Mandai Dormitory 12. SWI Warehouse Complex 13. Foodfab @ Mandai (U/C) 14. Mandai Industrial Building 15. Innovation Place 16. Gali Batu Depot 17. Temporary Site Office, 500A Woodlands Road 18. 661A, 668A, 686, 689, 692 Choa Chu Kang Crescent 19. 687 Choa Chu Kang Drive 20. 5 Stagmont Ring 21. Star International Industrial: 1. 25J, 27, 33, 35, 36, 38, 39, 40, 41, 42, 42A, 43, 44, 46, 48, 49, 50, 50A, 51, 52, 52A, 54, 56, 58 Sungei Kadut Street 1 2. 19A, 23 Sungei Kadut Street 2 3. 1, 2, 14, 15, 16, 17, 18, 20 Sungei Kadut Street 3 4. 1, 1A, 3, 4, 5, 6, 7, 8, 9, 10, 11, 11A, 13, 15 Sungei Kadut Street 4 5. 6, 8, 10, 12 Sungei Kadut Way 6. 47, 49, 50 Sungei Kadut Avenue 7. 65, 69, 71, 81 Sungei Kadut Drive 8. 2, 6 Mandai Link 9. 6A, 8 Mandai Estate	>100 >100	

Table Q-2: Air Sensitive Receptors for Docking Shaft Worksite Area

Distance	Land Use	Number of Receivers	Sensitivity of the Area
For Earthworks			
Within 20m	Residential: 1. 632A, 634, 634A, 635A Senja Road	10-100	Priority 1
Between 20m to 50m	Residential: 1. 632A, 632B, 633B, 634, 634A, 634C, 635A Senja Road Commercial:	>100 10-100	

Distance	Land Use	Number of Receivers	Sensitivity of the Area
	1. 180 Woodlands Road 2. 632 Senja Road		
Between 50m to 100m	Educational Institution: 1. West View Primary School Residential: 1. 632B, 633, 633A, 633B, 633C, 633D, 634A, 634B, 634C, 635, 635A, 635B Senja Road Commercial: 1. 180, 250A Woodlands Road 2. 632, 634 Senja Road	>100 >100 10-100	
Between 100m to 200m	Educational Institution: 1. West View Primary School Health Care: 1. Bukit Panjang Polyclinic (50 Woodlands Road) Residential: 1. 614, 626, 627, 628, 629, 629A, 629B, 633D, 634B, 635, 635B, 635C, 635D, 636A, 636B Senja Road Commercial: 1. 629A, 636 Senja Road 2. Gali Batu Depot	>100 10-100 >100 10-100	
Between 200m to 350m	Educational Institution: 1. Jurong Pioneer Junior College 2. Teck Whye Secondary School 3. West Spring Secondary School 4. Teck Whye Primary School Health Care: 2. Bukit Panjang Polyclinic (50 Woodlands Road) 3. Pacific Healthcare Nursing Home II @ Bukit Panjang Residential: 1. 5A Woodlands Road (The Tennery) 2. 609, 611, 613, 613B, 620 Bukit Panjang Ring Road 3. 607, 608, 610, 612, 614, 616, 618, 622, 625, 625B, 626, 628, 629, 629B, 630, 631, 636B, 636C, 636D Senja Road 4. 36, 161C, 162, 163, 164 Jalan Teck Whye 5. 38 Teck Whye Crescent 6. 1, 2, 3, 4, 5, 7, 9 Verde Crescent (Villa Verde) 7. 87-129 (even number), 130-142 (odd number) Verde View (Villa Verde) Commercial: 1. 603A, 616A, 625A Senja Road 2. Bukit Panjang Telephone Exchange (40 Woodlands Road)	>100 10-100 >100 10-100	

Distance	Land Use	Number of Receivers	Sensitivity of the Area
	3. Senja Soka Centre 4. Gali Batu Depot 5. 301A Woodlands Road (Temporary Site Office) 6. 611A, 613A, 615A Bukit Panjang Ring Road		
For Trackout			
Within 20m	-	-	Priority 1
Between 20m to 50m	Educational Institution: 1. West View Primary School 2. West Spring Secondary School Healthcare: 1. Bukit Panjang Polyclinic Residential: 1. 635, 635A, 635D, 636B Senja Road Commercial: 1. Bukit Panjang Telephone Exchange (40 Woodlands Road) 2. 636 Senja Road 3. Junction 10 4. Temporary Site Office (250A Woodlands Road) 5. Temporary Site Office (301A Woodlands Road)	>100 10-100 10-100 >100	
Between 50m to 100m	Educational Institution: 1. West View Primary School 2. West Spring Secondary School Healthcare: 1. Pacific Healthcare Nursing Home II @ Bukit Panjang Residential: 1. 603A, 605, 606, 632B, 635, 635A, 635B, 635D, 636A, 636B Senja Road Commercial: 1. 632, 634, 636 Senja Road 2. 638 Senja Close 3. Temporary Bus Terminal (21A Woodlands Road) 4. Bukit Panjang Telephone Exchange (40 Woodlands Road) 5. Bukit Panjang MRT Station 6. Senja Soka Centre 7. Junction 10 8. Gali Batu Depot	>100 10-100 >100 >100	

Table Q-3: Air Sensitive Receptors for Intermediate Station Worksite Area

Distance	Land Use	Number of Receivers	Sensitivity of the Area
For Earthworks			
Within 20m	Residential: 1. The Quintet 2. 690D, 691B, 692 Choa Chu Kang Crescent Industrial: 1. 6, 19 Sungei Kadut Avenue	>100 10-100	Priority 1
Between 20m to 50m	Residential: 1. The Quintet 2. 662, 663, 690D, 691, 691A, 691B Choa Chu Kang Crescent Commercial: 1. 689, 692 Choa Chu Kang Crescent Industrial: 1. 6, 12, 19 Sungei Kadut Avenue	>100 10-100 10-100	
Between 50m to 100m	Residential: 1. The Windermere 2. The Quintet 3. 656, 661, 661A, 662, 663, 664, 668A, 690A, 690C, 690D, 691, 691A, 692A, 692B Choa Chu Kang Crescent Commercial: 1. 5 Stagmont Ring 2. Gali Batu Depot 3. Eurokars Centre 4. 689 Choa Chu Kang Crescent Industrial: 1. 6, 8, 14, 16 Sungei Kadut Avenue	>100 10-100 10-100	
Between 100m to 200m	Educational Institution: 1. Yew Tee Primary School Healthcare: 1. MWS Nursing Home (Yew Tee) Residential: 1. The Windermere 2. 656, 657, 658, 660, 664, 665, 666, 667, 668, 688C, 690, 690A, 690B, 690C, 692B Choa Chu Kang Street 64 3. 687C, 687D, 688B, 689A, 689B Choa Chu Kang Drive 4. 641 Choa Chu Kang Street 64 5. Regent Grove Commercial: 1. 660A, 661A, 668A, 689 Choa Chu Kang Crescent 2. 5 Stagmont Ring 3. Eurokars Centre 4. Gali Batu Depot	>100 10-100 >100 >100	

Distance	Land Use	Number of Receivers	Sensitivity of the Area
	Industrial: 1. 6, 8, 14, 16, 18, 20, 21 Sungei Kadut Avenue 2. 28 Sungei Kadut Way	10-100	
Between 200m to 350m	Educational Institution: 1. Yew Tee Primary School 2. Regent Secondary School Residential: 1. The Windermere 2. Yew Mei Green 3. 633, 634, 635, 636 Choa Chu Kang North 6 4. 638, 639, 640, 641, 642, 643 Choa Chu Kang Street 64 5. 658, 659, 665, 667, 668, 669, 673, 673B, 685C, 686 Choa Chu Kang Crescent 6. 687A, 687B, 687C, 687D, 688, 688A, 688B, 689B Choa Chu Kang Drive 7. Regent Grove 8. 769, 770 Choa Chu Kang Street 54 9. 1-10, 11-25 (even number) Verde View (Villa Verde) Place of Worship: 1. Sri Arasakesari Sivan Temple Commercial: 1. 659A, 660A, 669A, 673B Choa Chu Kang Crescent 2. 687 Choa Chu Kang Drive 3. Hua Kok Industrial Building 4. Gali Batu Depot 5. 300 Woodlands Road 6. 500A Woodlands Road (Temporary Site Office) Industrial: 1. 20, 21, 22, 26, 28, 30 Sungei Kadut Avenue	>100 >100 10-100 >100	
For Construction			
Within 20m	Residential: 1. 690D, 691B Choa Chu Kang Crescent 2. The Quintet Commercial: 1. 692 Choa Chu Kang Crescent	>100 10-100	Priority 1
Between 20m to 50m	Residential: 1. The Quintet 2. 690D, 691B Choa Chu Kang Crescent Commercial: 1. 689, 692 Choa Chu Kang Crescent	>100 10-100	
Between 50m to 100m	Residential: 1. The Quintet 2. 656, 690A, 690C, 690D, 691, 691A, 692A Choa Chu Kang Crescent	>100	

Distance	Land Use	Number of Receivers	Sensitivity of the Area
	Commercial: 1. 689 Choa Chu Kang Crescent	10-100	
Between 100m to 200m	Residential: 1. The Windermere 2. The Quintet 3. Regent Grove 4. 641, 642 Choa Chu Kang Street 64 5. 656, 657, 658, 660, 661, 662, 663, 664, 665, 688C, 690A, 690B, 690C, 692B Choa Chu Kang Crescent 6. 687D, 689A, 690, 691 Choa Chu Kang Drive Commercial: 1. 660A, 661A, 668A, 689 Choa Chu Kang Crescent 2. Gali Batu Depot 3. Eurokars Centre Industrial: 1. 6, 8, 19 Sungei Kadut Avenue	>100 >100 10-100	
Between 200m to 350m	Educational Institution: 1. Yew Tee Primary School Residential: 1. The Windermere 2. Yew Mei Green 3. Regent Grove 4. 632A, 633, 634, 635, 636, 637 Choa Chu Kang North 6 5. 638, 639, 640, 642, 643 Choa Chu Kang Street 64 6. 658, 659, 660, 665, 666, 667, 668, 688C Choa Chu Kang Crescent 7. 687A, 687B, 687C, 687D, 688, 688A, 688B, 689A, 689B Choa Chu Kang Drive Commercial: 1. 659A, 660A, 668A Choa Chu Kang Crescent 2. 687 Choa Chu Kang Drive 3. Eurokars Centre 4. Gali Batu Depot Industrial: 1. 8, 14, 16, 18, 20, 21 Sungei Kadut Avenue 2. 359, 375, 385 Woodlands Road	>100 >100 >100 10-100	
For Trackout			
Within 20m	Industrial: 1. 19, 21 Sungei Kadut Avenue	<10	Priority 2
Between 20m to 50m	Place of Worship: 1. Sri Arasakesari Sivan Temple Commercial: 1. Eurokars Centre	10-100 >100	

Distance	Land Use	Number of Receivers	Sensitivity of the Area
	2. Gali Batu Depot 3. Temporary Site Office (301A Woodlands Road) 4. 5 Stagmont RIng Industrial: 1. 6, 8, 14, 16, 18, 19, 20, 21, 22 Sungei Kadut Avenue	 10-100	
Between 50m to 100m	Place of Worship: 1. Sri Arasakesari Sivan Temple Commercial: 1. 5 Stagmont Ring 2. Gali Batu Depot 3. Eurokars Centre Industrial: 1. 6, 8, 14, 16, 18, 19, 20 ,21, 22 Sungei Kadut Avenue 2. 359, 375 Woodlands Road	10-100 10-100 10-100	
Between 200m to 350m	Educational: 1. Yew Tee Primary School Place of Worship: 2. Sri Arasakesari Sivan Temple Residential: 1. 1, 3, 5, 7 Verde View 2. Yew Mei Green 3. The Windermere 4. The Quintet 5. 640, 641 Choa Chu Kang Street 64 6. Regent Grove 7. 656, 657, 661, 662, 663, 664, 687C, 687D, 688C, 690, 690A, 690B, 690C Choa Chu Kang Crescent Commercial: 1. Temporary Site Office, 500A Woodlands Road 2. Gali Batu Depot 3. 300 Woodlands Road 4. 661A, 668A, 689 Choa Chu Kang Crescent Industrial: 1. 18, 20, 22 Sungei Kadut Avenue	>100 10-100 >100 >100 10-100	

Table Q-4: Air Sensitive Receptors for Interchange Station Worksite Area

Distance	Land Use	Number of Receivers	Sensitivity of the Area
For Earthworks			
Within 20m	Industrial: 1. 23A, 23F, 25J, 27 Sungei Kadut Street 1 2. 5, 8, 15, 27, 29, 38 Sungei Kadut Street 2	10-100	Priority 1

Distance	Land Use	Number of Receivers	Sensitivity of the Area
	3. 3 Sungei Kadut Street 3		
Between 20m to 50m	Commercial: 1. Grandwork Building 2. Sungei Kadut Fire Post 3. Trendspace Industrial: 1. 23, 23A, 23F, 23H, 25J, 27 Sungei Kadut Street 1 2. 8, 15, 18, 29, 31, 38 Sungei Kadut Street 2 3. 3, 6, 10 Sungei Kadut Street 3 4. 48A Sungei Kadut Avenue	>100 >100	
Between 50m to 100m	Commercial: 1. Grandwork Building 2. Sungei Kadut Fire Post 3. Sunray Building 4. Trendspace Industrial: 1. 21, 23, 23A, 23F, 23H, 25, 25J, 27, 34, 36 Sungei Kadut Street 1 2. 3, 4, 6, 10 Sungei Kadut Street 3 3. 5, 6, 15, 18, 29, 31, 38 Sungei Kadut Street 2 4. 46, 48, 48A, 50 Sungei Kadut Avenue	>100 >100	
Between 100m to 200m	Commercial: 1. Luxx Newhouse Design Centre 2. Sungei Kadut Fire Post 3. Sunray Building 4. Trendspace 5. Tiong Aik Building 6. Star Building Industrial: 1. 21, 23, 25J, 27, 31, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 42A, 43 Sungei Kadut Street 1 2. 4, 8, 15, 18, 19A, 23, 31, 38 Sungei Kadut Street 2 3. 1, 2, 3, 4, 6, 10, 14, 15, 16 Sungei Kadut Street 3 4. 1A, 3, 5, 7, 9, 11A Sungei Kadut Street 4 5. 39, 45, 46, 47, 48, 48A, 50 Sungei Kadut Avenue 6. 1, 5, 10, 17 Sungei Kadut Way 7. 81 Sungei Kadut Drive	>100 >100	
Between 200m to 350m	Commercial: 1. Avenue Engineering Building 2. Luxx Newhouse Design Centre 3. Matsushita House 4. Star Building 5. Star International 6. TAC Centre 7. AOS Industrial Building	>100	

Distance	Land Use	Number of Receivers	Sensitivity of the Area
	Industrial: 1. 21, 23, 31, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 42A, 43, 44, 46, 48, 49, 50, 50A, 51, 52, 52A, 54, 56, 58 Sungei Kadut Street 1 2. 4, 19A, 23 Sungei Kadut Street 2 3. 1, 2, 14, 15, 16, 17, 18, 20, 22 Sungei Kadut Street 3 4. 1, 1A, 3, 4, 5, 6, 7, 8, 9, 10, 11, 11A, 12, 13, 15, 17 Sungei Kadut Street 4 5. 1, 3, 5, 6, 8, 10, 12, 14, 15, 16, 16A, 17, 18 Sungei Kadut Way 6. 31, 33, 39, 45, 47, 49, 50 Sungei Kadut Avenue 7. 4, 7, 8, 9 Sungei Kadut Crescent 8. 63, 65, 74 Sungei Kadut Loop 9. 58, 60, 62, 65, 69, 71 Sungei Kadut Drive	>100	
For Construction			
Within 20m	Industrial: 1. 10 Sungei Kadut Street 2	<10	Priority 2
Between 20m to 50m	Industrial: 1. 10, 18 Sungei Kadut Street 2	<10	
Between 50m to 100m	Industrial: 1. 8, 15, 18, 29, 38 Sungei Kadut Street 2	10-100	
Between 100m to 200m	Commercial: 1. Grandwork Building 2. Luxx Newhouse Design Centre 3. Trendspace Industrial: 1. 27, 35 Sungei Kadut Street 1 2. 4, 6, 8, 15, 18, 23, 29, 31, 38 Sungei Kadut Street 2	>100 >100	
Between 200m to 350m	Commercial: 1. Star International (U/C) 2. TAC Centre 3. Sunray Building 4. Grandwork Building 5. Sungei Kadut Fire Post 6. Luxx Newhouse Design Centre 7. Trendspace Industrial: 1. 15, 19A, 23, 29, 31 Sungei Kadut Street 2 2. 65, 69, 71 Sungei Kadut Drive 3. 1, 3, 10, 15, 17 Sungei Kadut Street 3 4. 25A, 25D, 25E, 27, 31, 33, 35, 37, 39, 41, 43, 44, 46, 48, 50 Sungei Kadut Street 1	>100 >100	
For Trackout			
Within 20m	Commercial: 1. LUXX Newhouse Design Centre	10-100	Priority 1

Distance	Land Use	Number of Receivers	Sensitivity of the Area
	Industrial: 1. 23, 23F, 23H, 25, 25J, 27, 35 Sungei Kadut Street 1 2. 6, 8, 15, 29, 37, 38 Sungei Kadut Street 2 3. 3, 16 Sungei Kadut Street 3 4. 48A, 50 Sungei Kadut Avenue	>100	
Between 20m to 50m	Commercial: 1. Trendspace 2. Star Building 3. LUXX Newhouse Design Centre 4. Sunray Building 5. Grandwork Building Industrial: 1. 1 Sungei Kadut Way 2. 21, 23, 23A, 23F, 23H, 25, 25J, 27, 31, 33, 35, 36, 38, 40, 42, 42A, 44, 46, 48, 50 Sungei Kadut Street 1 3. 6, 8, 15, 29, 31, 37, 38 Sungei Kadut Street 2 4. 3, 4, 6, 10, 14, 15, 16, 18 Sungei Kadut Street 3 5. 33, 47, 48A, 49, 50 Sungei Kadut Avenue 6. 65, 74 Sungei Kadut Loop	>100 >100	
Between 50m to 100m	Commercial: 1. Grandwork Building 2. Sungei Kadut Fire Post 3. Star Building 4. Tiong Aik Building 5. Trendspace 6. Sunray Building Industrial: 1. 21, 23A, 23F, 23H, 25, 25J, 27, 33, 35, 36, 38, 40, 42, 42A, 43, 44, 46, 48, 50 Sungei Kadut Street 1 2. 4, 6, 8, 15, 29, 31, 37, 38, 39 Sungei Kadut Street 2 3. 1, 2, 3, 4, 6, 10, 14, 15, 16, 18, 20 Sungei Kadut Street 3 4. 1, 3, 6, 17 Sungei Kadut Way 5. 31, 33, 46, 47, 48, 48A, 49, 50 Sungei Kadut Avenue 6. 63, 65, 74 Sungei Kadut Loop 7. 4 Sungei Kadut Crescent	>100 >100	

Table Q-5: Air Sensitive Receptors for Retrieval Shaft Worksite Area

Distance	Land Use	Number of Receivers	Sensitivity of the Area
For Earthworks			
Within 20m	Commercial: 1. Gali Batu Depot 2. Temporary Site Office, 500A Woodlands Road	10-100	Priority 1

Distance	Land Use	Number of Receivers	Sensitivity of the Area
	3. BHL Factories		
Between 20m to 50m	Commercial: 1. Gali Batu Depot 2. Temporary Site Office, 500A Woodlands Road 3. BHL Factories Commercial: 1. 16 Sungei Kadut Avenue	10-100 10-100	
Between 50m to 100m	Commercial: 1. 88, 90, 92, 94, 96 Mandai Estate 2. BHL Factories 3. Eurokars Centre 4. Gali Batu Depot 5. M-Space 6. 566 Woodlands Road Industrial: 1. 4, 6, 8, 14, 16, 18, 20, 21, 22, 24, 26 Sungei Kadut Avenue 2. 6A Mandai Estate	>100 >100	
Between 100m to 200m	Place of Worship: 1. Sri Arasakesari Sivan Temple Commercial: 1. 80, 82, 84, 86, 88, 90, 92, 94, 96 Mandai Estate 2. Eurokars Centre 3. Gali Batu Depot 4. M-Space 5. 566 Woodlands Road 6. Mandai Connection 7. Innovation Place 8. Mandai Industrial Building 9. Westlite Mandai Dormitory Industrial: 1. 2, 4, 6, 8, 14, 16, 18, 19, 20, 21, 22, 26 Sungei Kadut Avenue 2. 6A Mandai Estate	10-100 >100 >100	
Between 200m to 350m	Commercial: 1. 566 Woodlands Road 2. Mandai Foodlink 3. Mandai Connection 4. Foodfab@Mandai 5. Eldix 6. 8, 10, 12, 16 Mandai Estate 7. Multi-wide Industrial Building 8. Gali Batu Depot 9. Innovation Place 10. Mandai Industrial Building 11. SWI Warehouse Complex 12. Westlite Mandai Dormitory 13. Hua Kok Industrial Building	>100	

Distance	Land Use	Number of Receivers	Sensitivity of the Area
	Industrial: 1. 1, 2, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 31, 33 Sungei Kadut Avenue 2. 13, 15, 17, 30, 32 Sungei Kadut Way 3. 21, 23, 34, 36, 38, 40 Sungei Kadut Street 1 4. 2, 6 Mandai Link	>100	
For Trackout			
Within 20m	-	-	Priority 1
Between 20m to 50m	Commercial: 1. Mandai Connection 2. BHL Factories 3. Gali Batu Depot 4. Eurokars Centre Industrial: 1. 6 Mandai Link 2. 6, 8, 14, 16, 22 Sungei Kadut Avenue	>100 10-100	
Between 50m to 100m	Commercial: 1. Mandai Connection 2. 566 Woodlands Road 3. BHL Factories 4. Temporary Site Office (500A Woodlands Road) 5. Gali Batu Depot 6. Eurokars Centre Industrial: 1. 2, 6 Mandai Link 2. 6, 8, 14, 16, 18, 20, 22 Sungei Kadut Avenue	>100 >100	

Table Q-6: Air Sensitive Receptors for Potential Future Infrastructure Worksite Area

Distance	Land Use	Number of Receivers	Sensitivity of the Area
For Earthworks			
Within 20m	Commercial: 1. BHL Factories Industrial: 1. 21, 23A, 23F, 27, 34 Sungei Kadut Street 1 2. 5, 15 Sungei Kadut Street 2 3. 15, 17, 18, 20, 20A Sungei Kadut Way 4. 22, 31, 33, 39, 46 Sungei Kadut Avenue	10-100 >100	Priority 1
Between 20m to 50m	Place of Worship: 1. Sri Arasakesari Sivan Temple Commercial: 1. Trendspace Industrial: 1. 17 Sungei Kadut Way	10-100 10-100 >100	

Distance	Land Use	Number of Receivers	Sensitivity of the Area
	2. 21, 23, 23A, 23F, 23H, 27, 34 Sungei Kadut Street 1 3. 5, 15 Sungei Kadut Street 2 4. 22, 31, 33, 39, 45, 46 Sungei Kadut Avenue 5. 5, 15, 16A, 17, 18, 20, 20A Sungei Kadut Way		
Between 50m to 100m	Commercial: 1. Trendspace 2. 7 Mandai Link 3. 566 Woodlands Road 4. BHL Factories Industrial: 1. 5, 14, 16, 16A, 17, 18, 20 Sungei Kadut Way 2. 23, 23F, 23H, 25, 27, 34, 36 Sungei Kadut Street 1 3. 15 Sungei Kadut Street 2 4. 22, 31, 33, 45, 46, 48 Sungei Kadut Avenue	>100 >100	
Between 100m to 200m	Place of Worship: 1. Sri Arasakesari Sivan Temple Residential: 1. 686C, 690, 690A, 690B, 690C Choa Chu Kang Crescent 2. 687A, 687B, 687C, 687D, 688, 688A Choa Chu Kang Drive Commercial: 1. Trendspace 2. Mandai Connection 3. M-Space 4. Westlife Mandai Dormitory 5. BHL Factories 6. 88, 90, 92, 94, 96 Mandai Estate 7. 500A, 566 Woodlands Road 8. 687 Choa Chu Kang Drive Industrial: 1. 1, 3, 10, 12, 14, 16, 20 Sungei Kadut Way 2. 23H, 25, 25J, 27, 34, 36, 38, 40, 42, 42A Sungei Kadut Street 1 3. 15 Sungei Kadut Street 2 4. 18, 19, 48, 48A, 50 Sungei Kadut Avenue 5. 6 Mandai Link 6. 6A Mandai Estate	10-100 >100 >100 >100	
Between 200m to 350m	Residential: 1. 663, 664, 667, 685, 685B, 685C, 686A, 686B, 686C, 688C, 690A, 690C, 690D, 691B Choa Chu Kang Crescent 2. 688B, 689A, 689B Choa Chu Kang Drive Commercial: 1. Tiong Aik Building 2. Star Building 3. Eurokars Centre	>100 >100	

Distance	Land Use	Number of Receivers	Sensitivity of the Area
	4. Mandai Connection 5. Mandai Foodlink 6. Foodfab@Mandai 7. ELDIX 8. Westlife Mandai Dormitory 9. 8, 10, 12, 16, 80, 82, 84, 86 Mandai Estate 10. SWI Warehouse Complex 11. Mandai Industrial Building 12. M-Space 13. Gali Batu Depot 14. 686, 689 Choa Chu Kang Crescent 15. 687 Choa Chu Kang Drive 16. 556 Woodlands Road 17. 3 Mandai Link Industrial: 1. 6, 8, 10 Sungei Kadut Way 2. 8, 14, 16, 19, 47, 49, 50 Sungei Kadut Avenue 3. 25J, 27, 31, 33, 38, 40, 42, 42A, 44, 46 Sungei Kadut Street 1 4. 4, 6, 8, 15, 18, 19A, 38 Sungei Kadut Street 2 5. 2, 6 Mandai Link 6. 6A Mandai Estate 7. 81 Sungei Kadut Drive	>100	
For Construction			
Within 20m	Commercial: 1. BHL Factories Industrial: 1. 23C, 23E, 34 Sungei Kadut Street 1	10-100 10-100	Priority 1
Between 20m to 50m	Commercial: 1. BHL Factories 2. Temporary Site Office, 500A Woodlands Road Industrial: 1. 17, 19, 23B, 23C, 23E, 34 Sungei Kadut Way 2. 31, 33, 39, 46 Sungei Kadut Avenue	10-100 >100	
Between 50m to 100m	Commercial: 1. 88, 90, 92, 94, 96 Mandai Estate 2. BHL Factories 3. Gali Batu Depot 4. Mandai Connection 5. M-Space 6. Temporary Site Office, 500A Woodlands Road Industrial: 1. 15, 17 Sungei Kadut Way 2. 21, 23A, 23F, 23H Sungei Kadut Street 1 3. 20, 22, 31, 33, 39, 46, 48 Sungei Kadut Avenue	>100 >100	

Distance	Land Use	Number of Receivers	Sensitivity of the Area
Between 100m to 200m	Place of Worship: 1. Sri Arasakesari Sivan Temple Commercial: 1. 566 Woodlands Road 2. 80, 82, 84, 86, 88, 90, 92, 94, 96 Mandai Estate 3. Gali Batu Depot 4. Innovation Place 5. Mandai Connection 6. Mandai Industrial Building 7. Matsushita House 8. M-Space 9. Trendspace 10. Westlite Mandai Dormitory Industrial: 1. 1, 3, 5, 15, 17 Sungei Kadut Way 2. 21, 23, 23A, 23H, 25, 36, 38 Sungei Kadut Street 1 3. 15 Sungei Kadut Street 2 4. 14, 16, 18, 20, 21, 22, 31, 33, 45, 48, 48A Sungei Kadut Avenue 5. 6 Mandai Link 6. 6A Mandai Estate	10-100 >100 >100	
Between 200m to 350m	Commercial: 1. 8, 10, 12, 16 Mandai Estate 2. 566 Woodlands Road 3. Eurokars Centre 4. Foodfab @ Mandai 5. Gali Batu Depot 6. Innovation Place 7. Mandai Connection 8. Mandai Foodlink 9. Mandai Industrial Building 10. Multi-Wide Industrial Building 11. Star Building 12. SWI Warehouse Complex 13. Tiong Aik Building 14. Trendspace 15. Westlite Mandai Dormitory Industrial: 1. 1, 3, 5, 10, 12, 14, 16, 16A, 18, 20, 20A, Sungei Kadut Way 2. 8, 14, 19, 21, 47, 49, 50 Sungei Kadut Avenue 3. 25, 25A, 25J, 27, 36, 38, 40, 42 Sungei Kadut Street 1 4. 15 Sungei Kadut Street 2 5. 2, 6 Mandai Link 6. 81 Sungei Kadut Drive	>100 >100	
For Trackout			
Within 20m	Industrial: 1. 19, 21, 45 Sungei Kadut Avenue 2. 1 Sungei Kadut Way	10-100	Priority 1

Distance	Land Use	Number of Receivers	Sensitivity of the Area
Between 20m to 50m	Place of Worship: 1. Sri Arasakesari Sivan Temple Commercial: 1. Star Building 2. Eurokars Centre 3. Mandai Connection 4. BHL Factories 5. Gali Batu Depot Industrial: 1. 2, 6 Mandai Link 2. 6, 8, 14, 16, 18, 19, 20, 21, 22, 31, 33, 39, 45, 46, 47, 48, 48A, 49, 50 Sungei Kadut Avenue 3. 74 Sungei Kadut Loop 4. 23C, 23E, 34 Sungei Kadut Street 1 5. 1, 17 Sungei Kadut Way	10-100 >100 >100	
Between 50m to 100m	Place of Worship: 1. Sri Arasakesari Sivan Temple Commercial: 1. 695 Mandai Road Shell 2. 566 Woodlands Road 3. Temporary Site Office (500A Woodlands Road) 4. Eurokars Centre 5. Star Building 6. Mandai Connection 7. BHL Factories 8. Gali Batu Depot Industrial: 1. 2, 6 Mandai Link 2. 6, 8, 14, 16, 18, 19, 20, 21, 22, 31, 33, 39, 45, 46, 47, 48, 48A, 49, 50 Sungei Kadut Avenue 3. 65, 74 Sungei Kadut Loop 4. 21, 23A, 23C, 23E, 23F, 23H, 36 Sungei Kadut Street 1 5. 1, 3, 5, 6, 15, 17 Sungei Kadut Way	10-100 >100 >100	

Appendix R

Baseline Airborne Noise Monitoring Report (Construction and Traffic Noise)

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Introduction

Under Contract C9175 – Advance Engineering Study (AES) for the Proposed Downtown Line 2 Extension and a New Station on Existing North-South Line, the Singapore Land Transport Authority (LTA) appointed AECOM Singapore Pte Ltd (AECOM) to undertake an Environmental Study (ES) to assess the potential environmental impacts arising from, and associated with, the construction and operational phase of the proposed Downtown Line 2 Extension (DTL2e) and the proposed potential future infrastructure (hereafter referred to as the "Project").

This study will involve a quantitative assessment of the noise impacts arising from the Project's construction phase and operational phase which will be discussed in the main report. This report details the noise monitoring plan to carry out the baseline airborne noise monitoring at the Project Site due to the construction phase of the Project, as part of the quantitative noise impact assessment. Information on the operational phase will be provided in a separate Noise and Vibration Study, Traffic NIA Study, and Acoustics Study on the airborne noise impacts due to the operation of trains at grade and elevated. The purpose of conducting the baseline airborne noise monitoring is to determine the existing noise levels in the vicinity of locations surrounding the Project Site for further assessment and validation of noise level predictions.

Airborne Noise Monitoring Schedule

Unattended noise monitoring was conducted at the proposed locations in the vicinity of the proposed downtown line 2 extension (DTL2e) and proposed potential future infrastructure to capture the existing noise level profiles in the vicinity. The monitoring dates and locations of the monitoring points are reflected in **Table 1** and **Table 2** below for the construction and operational phase respectively.

Table 1 Baseline Monitoring Locations (Construction Phase)

No.	Monitoring ID	Location	Date of Monitoring
Airborne Noise Monitoring Locations for Proposed Downtown Line 2 Extension (DTL2e)			
1	N1	Nexxis Asia Pte. Ltd., Sungei Kadut Street 3	14 July 2021 – 20 July 2021
2	N2	JTC Lot No. MK11-00541K, near The Stone Gallery by Hafary, Sungei Kadut Central	14 July 2021 – 20 July 2021
3	N3	In vicinity of JSM Construction Group Pte Ltd, facing Woodlands Road	3 December 2021 – 9 December 2021
4	N4	In vicinity of HDB Block 691B, Chao Chu Kang Crescent, facing Pangsua Canal	10 December 2021 – 16 December 2021
5	N5	In vicinity of commercial buildings such as Chong Timber Pte Ltd, along Rail Corridor	9 December 2021 – 15 December 2021
6	N6	Along Rail Corridor on side opposite and facing Windermere Residences	9 December 2021 – 15 December 2021
7	N7a	HDB Block 632A, Senja Road (Ground Level)	8 November 2021 – 14 November 2021
8	N7b	HDB Block 632A, Senja Road (Level 5 staircase area)	8 November 2021 – 14 November 2021
9	N7c	HDB Block 632A, Senja Road (Rooftop area)	8 November 2021 – 14 November 2021
10	N8	Near Teck Whye Secondary School, facing the Pangsua Canal	14 July 2021 – 20 July 2021
Airborne Noise Monitoring Locations for Proposed Potential Future Infrastructure			
1	NM1	Along Rail Corridor near Sungei Kadut Avenue	3 December 2021 – 9 December 2021

Table 2 Baseline Monitoring Locations (Operational Phase)

No.	Monitoring ID	Location	Date of Monitoring
Airborne Noise Monitoring Locations for Propose Elevated Vehicular Bridge (part of DTL2e)			
1	NMT01	HDB Block 656 Choa Chu Kang Crescent	28 September 2021
2	NMT02	HDB Block 692A Choa Chu Kang Crescent	28 September 2021
Airborne Noise Monitoring Location for Proposed Potential Future Infrastructure			
1	1	25E Sungei Kadut Street 1*	11 November 2021 – 14 November 2021
Note: Information on the baseline noise findings for 25E Sungei Kadut Street 1 will be presented in a separate standalone appendix – Baseline Airborne Noise Monitoring Report (Train Noise)			

Airborne Noise Monitoring Equipment

Three (3) NEA-approved Norsonic 131 Type 1 Sound Level Meter (SLM) with microphones were utilized to collect data for the Project. For the purpose of QA/QC, the SLM was calibrated before each monitoring session without any drift in calibration before and after monitoring to ensure that equipment readings remain within acceptable margins of error. In order to reduce the changes to recording unwanted noise caused by the wind, a windshield was attached to the microphone. Noise levels were recorded in 1-minute intervals using the L_{Aeq} descriptor, under a 'fast' time-weighting. Calibration certificates of the noise monitoring equipment as per **Table 3** are presented in **Annex B**.

Table 3 Airborne Noise Monitoring Equipment

Instrument	Brand	Model	Serial Numbers	Type
Norsonic 131	Norsonic	Norsonic 131	1313950	1
Norsonic 131	Norsonic	Norsonic 131	1313980	1
Norsonic 131	Norsonic	Norsonic 131	1313098	1

Figure 1 Airborne Noise Monitoring Setup

Baseline Airborne Noise Monitoring Data (Construction Phase)

The daily baseline airborne noise monitoring results recorded at N1 – N8 (for DTL2e), NM1 (for proposed potential future infrastructure for 7:00am – 7:00pm, 7:00pm – 10:00pm and 10:00pm – 7:00am of the construction phase are listed in this section for $L_{Aeq(12\ hours)}$, $L_{Aeq(1\ hour)}$ and $L_{Aeq(5\ mins)}$. $L_{Aeq(15\ mins)}$ typically used for operational phase noise assessment for 7:00am – 7:00pm, 7:00pm – 11:00pm and 11:00pm – 7:00am are also reflected in this section for reference purposes. The corresponding graphs for the daily monitoring data are displayed in **Annex A**.

Baseline Airborne Noise Monitoring Data for proposed Downtown Line 2 Extension (DTL2e)

Table 4 Baseline Noise Monitoring Results at N1 – Nexxis Asia Pte. Ltd., Sungei Kadut Street 3

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
14-Jul-21	Min			62	47		59	44		56	44
Wednesday	Max			65	61		66	64		66	62
	Average / Overall		60	64	54		64	52		62	53
15-Jul-21	Min			63	51	61	52	44	63	59	46
Thursday	Max			67	61	71	70	66	69	69	62
	Average / Overall	67	61	65	55	67	64	54	67	64	54
16-Jul-21	Min			62	49	61	56	45	63	59	45
Friday	Max			69	62	74	74	70	71	72	66
	Average / Overall	67	62	65	55	67	64	53	67	64	53
17-Jul-21	Min			60	52	57	50	44	62	56	49
Saturday	Max			65	59	74	70	63	71	64	59
	Average / Overall	67	60	63	56	66	62	55	66	60	55
18-Jul-21	Min			57	47	54	49	43	56	51	44
Sunday	Max			59	62	69	64	66	65	61	64
	Average / Overall	61	56	58	58	61	57	57	61	56	51
19-Jul-21	Min			63	49	57	57	42	63	58	44
Monday	Max			66	60	72	70	68	70	67	64
	Average / Overall	67	60	64	54	67	64	51	67	63	52
20-Jul-21	Min			56	45	44	47	43	55	47	44
Tuesday	Max			57	60	65	64	63	63	60	63
	Average / Overall	59	55	57	51	59	56	49	59	55	50

Table 5 Baseline Noise Monitoring Results at N2 – JTC Lot No. MK11-00541K, near The Stone Gallery by Hafary, Sungei Kadut Central

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
14-Jul-21	Min			61	43		57	42		56	42
Wednesday	Max			62	58		65	62		64	59
	Average / Overall		57	61	50		61	49		60	49
15-Jul-21	Min			60	44	56	55	42	57	55	42
Thursday	Max			62	59	73	65	66	71	63	62
	Average / Overall	62	57	61	50	61	60	49	61	60	49
16-Jul-21	Min			59	42	55	56	42	56	56	42
Friday	Max			60	58	73	62	62	70	61	60
	Average / Overall	64	56	60	50	62	60	49	63	59	49
17-Jul-21	Min			61	45	53	55	41	55	53	41
Saturday	Max			63	59	64	69	66	63	65	60
	Average / Overall	60	57	62	51	59	61	49	60	59	49
18-Jul-21	Min			58	43	51	56	41	53	53	42
Sunday	Max			58	56	69	61	59	68	60	57
	Average / Overall	62	55	58	55	60	58	54	61	58	49
19-Jul-21	Min			61	43	55	59	41	55	57	41
Monday	Max			62	59	70	63	61	67	63	57
	Average / Overall	62	57	61	49	61	61	48	62	60	47
20-Jul-21	Min			61	42	53	57	41	55	55	41
Tuesday	Max			62	58	74	65	61	72	65	60
	Average / Overall	64	57	62	49	61	61	48	61	60	48

Table 6 Baseline Noise Monitoring Results at N3 – In vicinity of JSM Construction Group Pte Ltd, facing Woodlands Road

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
3-Dec-21	Min			61	55		60	53		59	55
Friday	Max			63	60		65	62		63	61
	Average / Overall		59	62	58		62	58		61	57
4-Dec-21	Min			61	55	57	59	52	61	59	54
Saturday	Max			62	61	70	64	66	67	62	62
	Average / Overall	63	59	61	58	63	61	57	63	61	57
5-Dec-21	Min			59	54	57	58	49	58	58	53
Sunday	Max			60	60	65	63	62	63	61	61
	Average / Overall	60	58	60	56	60	60	56	60	59	56
6-Dec-21	Min			60	54	59	59	51	61	57	52
Monday	Max			62	60	66	62	63	64	61	62
	Average / Overall	62	58	61	56	62	61	56	62	59	56
7-Dec-21	Min			60	54	58	58	51	60	59	53
Tuesday	Max			62	60	68	65	64	66	63	62
	Average / Overall	63	59	61	59	63	61	59	63	61	56
8-Dec-21	Min			60	54	59	58	50	59	59	53
Wednesday	Max			61	60	66	62	63	64	62	62
	Average / Overall	63	58	60	57	62	60	57	62	60	56
9-Dec-21	Min			60	53	60	59	51	60	58	52
Thursday	Max			61	60	67	63	62	66	62	61
	Average / Overall	63	59	61	57	63	61	57	63	61	56

Table 7 Baseline Noise Monitoring Results at N4 – In vicinity of HDB Block 691B, Chao Chu Kang Crescent, facing Pangsua Canal

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
10-Dec-21	Min			56	46		55	46		55	46
Friday	Max			59	55		60	55		60	55
	Average / Overall		54	58	50		57	50		57	50
11-Dec-21	Min			54	47	49	52	46	50	52	46
Saturday	Max			55	53	64	56	54	62	56	53
	Average / Overall	55	51	54	49	54	54	49	54	54	48
12-Dec-21	Min			48	45	47	47	45	48	47	45
Sunday	Max			49	50	61	51	51	57	50	50
	Average / Overall	51	48	49	47	50	48	47	50	49	47
13-Dec-21	Min			49	47	47	48	45	49	47	46
Monday	Max			51	49	64	53	52	60	52	50
	Average / Overall	55	48	50	47	53	50	47	54	48	47
14-Dec-21	Min			48	46	48	47	45	49	46	45
Tuesday	Max			50	48	59	54	51	57	52	50
	Average / Overall	53	48	49	49	52	49	49	52	48	47
15-Dec-21	Min			48	46	47	47	45	48	48	45
Wednesday	Max			51	48	64	53	52	62	52	50
	Average / Overall	54	48	49	47	52	49	47	52	49	47
16-Dec-21	Min			47	47	46	46	46	47	47	47
Thursday	Max			48	62	63	52	67	60	51	65
	Average / Overall	53	56	48	54	51	47	53	52	48	53

Table 8 Baseline Noise Monitoring Results at N5 – In vicinity of commercial buildings such as Chong Timber Pte Ltd, along Rail Corridor

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
9-Dec-21	Min			49	47		47	46		47	46
Thursday	Max			49	48		50	49		50	49
	Average / Overall		48	49	47		49	47		49	47
10-Dec-21	Min			51	48	47	45	47	47	49	47
Friday	Max			60	87	86	63	92	81	63	90
	Average / Overall	65	79	54	57	56	54	54	57	52	55
11-Dec-21	Min			49	48	48	49	48	48	49	48
Saturday	Max			50	50	76	52	51	74	51	51
	Average / Overall	61	49	50	49	56	50	49	56	49	49
12-Dec-21	Min			48	49	46	47	48	47	49	48
Sunday	Max			50	83	53	51	92	52	80	87
	Average / Overall	49	73	49	58	49	49	51	49	53	53
13-Dec-21	Min			50	49	48	48	48	49	49	48
Monday	Max			53	79	73	62	90	68	57	85
	Average / Overall	63	71	51	56	58	50	52	59	50	53
14-Dec-21	Min			49	49	48	48	47	49	48	48
Tuesday	Max			62	85	77	70	92	72	66	88
	Average / Overall	58	77	55	64	53	51	54	54	52	58
15-Dec-21	Min			79	49	46	47	48	47	49	48
Wednesday	Max			82	82	99	89	89	96	85	85
	Average / Overall	85	79	80	69	67	70	65	70	76	65

Table 9 Baseline Noise Monitoring Results at N6 – Along Rail Corridor on side opposite and facing Windermere Residences

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
9-Dec-21	Min			50	49		49	48		49	49
Thursday	Max			51	51		52	56		51	53
	Average / Overall		50	50	50		50	50		50	50
10-Dec-21	Min			52	50	43	51	48	48	50	49
Friday	Max			58	51	68	61	54	67	61	53
	Average / Overall	57	52	54	50	53	53	50	53	53	50
11-Dec-21	Min			49	50	44	48	49	46	48	49
Saturday	Max			53	52	66	54	56	65	54	55
	Average / Overall	55	51	51	50	52	51	50	53	51	50
12-Dec-21	Min			48	50	45	46	49	46	50	49
Sunday	Max			51	51	56	52	54	54	51	53
	Average / Overall	50	50	50	50	49	50	50	49	50	50
13-Dec-21	Min			51	50	47	48	50	49	49	50
Monday	Max			52	52	62	53	53	58	52	53
	Average / Overall	53	51	51	52	52	51	51	53	51	51
14-Dec-21	Min			49	51	43	46	50	47	47	50
Tuesday	Max			51	52	63	54	53	59	53	52
	Average / Overall	52	51	51	51	51	50	51	52	51	51
15-Dec-21	Min			49	50	43	48	50	46	48	50
Wednesday	Max			53	52	67	54	54	63	53	53
	Average / Overall	53	51	51	51	51	51	51	51	51	51

Table 10 Baseline Noise Monitoring Results at N7a – HDB Block 632A, Senja Road (Ground Level)

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
8-Nov-21	Min			63	55		62	51		61	53
Monday	Max			64	63		65	65		64	65
	Average / Overall		61	63	59		63	59		63	58
9-Nov-21	Min			63	56	62	62	53	63	62	56
Tuesday	Max			65	63	73	67	65	72	66	65
	Average / Overall	66	61	64	59	65	64	59	65	64	59
10-Nov-21	Min			66	57	62	64	53	63	64	56
Wednesday	Max			67	64	71	67	66	70	67	65
	Average / Overall	67	63	66	60	66	66	60	66	65	60
11-Nov-21	Min			63	57	63	62	55	64	59	56
Thursday	Max			64	64	67	65	65	66	64	65
	Average / Overall	65	61	64	60	65	63	60	65	62	59
12-Nov-21	Min			63	57	60	63	55	63	62	57
Friday	Max			64	64	67	66	66	66	65	66
	Average / Overall	65	62	64	62	65	64	62	65	64	60
13-Nov-21	Min			63	57	63	62	55	63	62	56
Saturday	Max			64	62	67	65	64	67	64	62
	Average / Overall	65	61	63	59	65	63	59	65	63	59
14-Nov-21	Min			62	56	61	60	52	62	62	55
Sunday	Max			63	63	65	64	64	64	63	64
	Average / Overall	63	60	63	59	63	63	58	63	62	58

Table 11 Baseline Noise Monitoring Results at N7b – HDB Block 632A, Senja Road (Level 5 staircase area)

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
8-Nov-21	Min			65	58		64	54		63	56
Monday	Max			67	65		69	68		67	67
	Average / Overall		63	66	61		66	61		65	61
9-Nov-21	Min			66	59	65	65	55	66	64	58
Tuesday	Max			67	65	76	69	67	73	67	67
	Average / Overall	68	64	67	62	68	67	62	68	66	61
10-Nov-21	Min			67	59	63	66	57	66	65	58
Wednesday	Max			68	66	71	69	67	71	69	67
	Average / Overall	68	64	67	62	68	67	62	68	67	62
11-Nov-21	Min			65	59	66	64	55	66	62	57
Thursday	Max			66	66	69	67	68	69	66	67
	Average / Overall	67	64	66	62	67	66	62	67	65	61
12-Nov-21	Min			66	60	65	65	58	66	64	59
Friday	Max			67	65	70	67	67	68	67	66
	Average / Overall	67	64	66	64	67	66	64	67	66	62
13-Nov-21	Min			65	60	66	64	57	66	64	58
Saturday	Max			66	64	69	68	65	68	66	64
	Average / Overall	67	63	66	61	67	66	61	67	65	61
14-Nov-21	Min			65	58	63	63	53	64	64	56
Sunday	Max			65	65	68	66	66	67	66	66
	Average / Overall	65	63	65	61	65	65	61	65	65	60

Table 12 Baseline Noise Monitoring Results at N7c – HDB Block 632A, Senja Road (Rooftop area)

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
8-Nov-21	Min			64	57		64	53		62	55
Monday	Max			66	65		67	67		66	67
	Average / Overall		63	65	60		65	60		65	60
9-Nov-21	Min			65	58	64	63	55	65	63	57
Tuesday	Max			66	64	73	67	66	72	66	66
	Average / Overall	68	63	65	60	67	65	60	67	65	60
10-Nov-21	Min			66	58	63	65	55	65	64	56
Wednesday	Max			67	64	71	68	66	70	67	66
	Average / Overall	67	63	66	61	67	66	61	67	66	60
11-Nov-21	Min			65	58	65	64	55	66	61	57
Thursday	Max			66	65	68	66	67	67	65	66
	Average / Overall	67	63	65	61	66	65	61	67	64	60
12-Nov-21	Min			65	59	65	64	57	66	65	58
Friday	Max			67	65	70	68	66	68	67	65
	Average / Overall	67	64	66	64	67	66	64	67	66	61
13-Nov-21	Min			64	58	65	63	56	65	63	57
Saturday	Max			66	63	69	67	65	69	66	63
	Average / Overall	67	62	65	60	67	65	60	67	64	60
14-Nov-21	Min			65	57	61	63	54	63	64	55
Sunday	Max			65	64	68	67	66	66	66	65
	Average / Overall	65	62	65	60	65	65	60	65	65	60

Table 13 Baseline Noise Monitoring Results at N8 – Near Teck Whye Secondary School, facing the Pangsua Canal

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
14-Jul-21	Min			52	48		51	47		50	47
Wednesday	Max			52	51		55	52		53	52
	Average / Overall		50	52	49		52	49		52	49
15-Jul-21	Min			51	47	49	50	46	50	50	46
Thursday	Max			51	51	62	52	52	58	52	52
	Average / Overall	52	50	51	49	51	51	49	52	51	49
16-Jul-21	Min			50	47	49	49	46	50	49	47
Friday	Max			51	50	64	54	53	61	53	52
	Average / Overall	53	49	51	49	52	50	48	52	50	48
17-Jul-21	Min			50	46	48	49	45	49	49	46
Saturday	Max			50	49	60	53	51	57	51	50
	Average / Overall	51	49	50	48	51	50	48	51	49	48
18-Jul-21	Min			49	46	48	48	45	48	49	46
Sunday	Max			50	50	64	51	52	62	51	51
	Average / Overall	52	48	50	50	51	50	49	51	50	48
19-Jul-21	Min			50	46	49	48	45	49	49	46
Monday	Max			51	49	64	58	53	62	54	51
	Average / Overall	53	49	51	48	51	50	48	52	50	48
20-Jul-21	Min			49	46	47	48	45	48	49	45
Tuesday	Max			50	50	63	53	53	59	52	51
	Average / Overall	51	49	50	48	50	50	48	50	50	47

Baseline Airborne Noise Monitoring Data for proposed potential future infrastructure

Table 14 Baseline Noise Monitoring Results at NM1 – Along Rail Corridor near Sungei Kadut Avenue

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
3-Dec-21	Min			53	50		52	49		52	49
Friday	Max			54	52		56	53		54	53
	Average / Overall		52	54	51		53	51		53	51
4-Dec-21	Min			52	50	52	51	49	53	51	50
Saturday	Max			53	52	58	54	54	58	54	52
	Average / Overall	55	51	53	51	55	53	51	55	52	51
5-Dec-21	Min			51	50	49	49	49	50	50	49
Sunday	Max			51	53	58	52	54	55	52	53
	Average / Overall	52	51	51	51	52	51	51	52	51	51
6-Dec-21	Min			52	49	52	51	47	54	49	47
Monday	Max			54	53	58	55	55	57	54	54
	Average / Overall	55	51	53	50	55	53	50	55	52	50
7-Dec-21	Min			52	49	51	51	48	54	50	49
Tuesday	Max			54	52	57	55	54	57	55	53
	Average / Overall	55	51	53	52	55	53	52	55	52	50
8-Dec-21	Min			52	48	53	51	47	54	50	48
Wednesday	Max			55	53	59	56	54	59	56	53
	Average / Overall	56	51	54	50	56	54	50	56	53	50
9-Dec-21	Min			52	50	52	51	48	52	51	49
Thursday	Max			54	53	58	57	54	57	56	53
	Average / Overall	55	51	53	51	55	53	50	55	53	50

Summary of Baseline Airborne Noise Monitoring Results for Construction Noise Impact Assessment

The baseline airborne noise monitoring results from N1 – N8 (for DTL2e), NM1 (for Proposed Potential Future Infrastructure) are summarized in this section. These data with background noise correction factor applied will be used to develop the noise criteria for this Project.

Summary of Baseline Airborne Noise Monitoring Data for proposed Downtown Line 2 Extension (DTL2e)

Table 15 Summary of Baseline Airborne Noise Monitoring Results for Monday – Saturday at N1 – Nexxis Asia Pte. Ltd., Sungei Kadut Street 3

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
Monday – Saturday (14 Jul 2021 – 17 Jul 2021 and 19 Jul 2021 – 20 Jul 2021)	Min			56	45	44	47	42	55	47	44
	Max			69	62	74	74	70	71	72	66
	Average / Overall	65	60	63	54	65	62	52	65	61	53

Table 16 Summary of Baseline Airborne Noise Monitoring Results for Sunday and Public Holidays at N1 – Nexxis Asia Pte. Ltd., Sungei Kadut Street 3

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
Sunday (18 Jul 2021)	Min			57	47	54	49	43	56	51	44
	Max			59	62	69	64	66	65	61	64
	Average / Overall	61	56	58	58	61	57	57	61	56	51

Table 17 Summary of Baseline Airborne Noise Monitoring Results for Monday – Saturday at N2 – JTC Lot No. MK11-00541K, near The Stone Gallery by Hafary, Sungei Kadut Central

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
Monday – Saturday (14 Jul 2021 – 17 Jul 2021 and 19 Jul 2021 – 20 Jul 2021)	Min			59	42	53	55	41	55	53	41
	Max			63	59	74	69	66	72	65	62
	Average / Overall	62	57	61	50	61	61	49	61	60	48

Table 18 Summary of Baseline Airborne Noise Monitoring Results for Sunday and Public Holidays at N2 – JTC Lot No. MK11-00541K, near The Stone Gallery by Hafary, Sungei Kadut Central

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
Sunday (18 Jul 2021)	Min			58	43	51	56	41	53	53	42
	Max			58	56	69	61	59	68	60	57
	Average / Overall	62	55	58	55	60	58	54	61	58	49

Table 19 Summary of Baseline Airborne Noise Monitoring Results for Monday – Saturday N3 – In vicinity of JSM Construction Group Pte Ltd, facing Woodlands Road

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
Monday – Saturday (2 Mar 2021 – 6 Mar 2021 and 8 Mar 2021)	Min			60	53	57	58	50	59	57	52
	Max			63	61	70	65	66	67	63	62
	Average / Overall	63	59	61	57	63	61	57	63	60	57

Table 20 Summary of Baseline Airborne Noise Monitoring Results for Sunday and Public Holidays N3 – In vicinity of JSM Construction Group Pte Ltd, facing Woodlands Road

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
Sunday (7 Mar 2021)	Min			59	54	57	58	49	58	58	53
	Max			60	60	65	63	62	63	61	61
	Average / Overall	60	58	60	56	60	60	56	60	59	56

Table 21 Summary of Baseline Airborne Noise Monitoring Results for Monday – Saturday at N4 – In vicinity of HDB Block 691B, Chao Chu Kang Crescent, facing Pangsua Canal

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
Monday – Saturday (20 Apr 2021 – 24 Apr 2021)	Min			47	46	46	46	45	47	46	45
	Max			59	62	64	60	67	62	60	65
	Average / Overall	54	51	51	49	53	51	49	53	51	49

Table 22 Summary of Baseline Airborne Noise Monitoring Results for Sunday and Public Holidays at N4 – In vicinity of HDB Block 691B, Chao Chu Kang Crescent, facing Pangsua Canal

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
Sunday (25 Apr 2021)	Min			48	45	47	47	45	48	47	45
	Max			49	50	61	51	51	57	50	50
	Average / Overall	51	48	49	47	50	48	47	50	49	47

Table 23 Summary of Baseline Airborne Noise Monitoring Results for Monday – Saturday at N5 – In vicinity of commercial buildings such as Chong Timber Pte Ltd, along Rail Corridor

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
Monday – Saturday (16 Apr 2021 – 17 Apr 2021 and 19 Apr 2021 – 23 Apr 2021)	Min			49	47	46	45	46	47	47	46
	Max			82	87	99	89	92	96	85	90
	Average / Overall	66	67	56	57	58	54	53	59	55	54

Table 24 Summary of Baseline Airborne Noise Monitoring Results for Sunday and Public Holidays at N5 – In vicinity of commercial buildings such as Chong Timber Pte Ltd, along Rail Corridor

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
Sunday (18 Apr 2021)	Min			48	49	46	47	48	47	49	48
	Max			50	83	53	51	92	52	80	87
	Average / Overall	49	73	49	58	49	49	51	49	53	53

Table 25 Summary of Baseline Airborne Noise Monitoring Results for Monday – Saturday N6 – Along Rail Corridor on side opposite and facing Windermere Residences

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
Monday – Saturday (16 Apr 2021 – 17 Apr 2021 and 19 Apr 2021 – 23 Apr 2021)	Min			49	49	43	46	48	46	47	49
	Max			58	52	68	61	56	67	61	55
	Average / Overall	54	51	51	51	52	51	51	52	51	51

Table 26 Summary of Baseline Airborne Noise Monitoring Results for Sunday and Public Holidays N6 – Along Rail Corridor on side opposite and facing Windermere Residences

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
Sunday (18 Apr 2021)	Min			48	50	45	46	49	46	50	49
	Max			51	51	56	52	54	54	51	53
	Average / Overall	50	50	50	50	49	50	50	49	50	50

Table 27 Summary of Baseline Airborne Noise Monitoring Results for Monday – Saturday at N7a – HDB Block 632A, Senja Road (Ground Level)

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
Monday – Saturday (16 Apr 2021 – 17 Apr 2021 and 19 Apr 2021 – 23 Apr 2021)	Min			63	55	60	62	51	63	59	53
	Max			67	64	73	67	66	72	67	66
	Average / Overall	66	62	64	60	65	64	60	65	63	59

Table 28 Summary of Baseline Airborne Noise Monitoring Results for Sunday and Public Holidays at N7a – HDB Block 632A, Senja Road (Ground Level)

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
Sunday (18 Apr 2021)	Min			62	56	61	60	52	62	62	55
	Max			63	63	65	64	64	64	63	64
	Average / Overall	63	60	63	59	63	63	58	63	62	58

Table 29 Summary of Baseline Airborne Noise Monitoring Results for Monday –Saturday at N7b – HDB Block 632A, Senja Road (Level 5 staircase area)

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
Monday – Saturday (1 Apr 2021 – 3 Apr 2021 and 5 Apr 2021 – 8 Apr 2021)	Min			65	58	63	64	54	66	62	56
	Max			68	66	76	69	68	73	69	67
	Average / Overall	67	64	66	62	68	66	62	67	66	61

Table 30 Summary of Baseline Airborne Noise Monitoring Results for Sunday and Public Holidays at N7b – HDB Block 632A, Senja Road (Level 5 staircase area)

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
Sunday (4 Apr 2021)	Min			65	58	63	63	53	64	64	56
	Max			65	65	68	66	66	67	66	66
	Average / Overall	65	63	65	61	65	65	61	65	65	60

Table 31 Summary of Baseline Airborne Noise Monitoring Results for Monday –Saturday at N7c – HDB Block 632A, Senja Road (Rooftop area)

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
Monday – Saturday (1 Apr 2021 – 3 Apr 2021 and 5 Apr 2021 – 8 Apr 2021)	Min			64	57	63	63	53	65	61	55
	Max			67	65	73	68	67	72	67	67
	Average / Overall	67	63	65	61	67	65	61	67	65	60

Table 32 Summary of Baseline Airborne Noise Monitoring Results for Sunday and Public Holidays at N7c – HDB Block 632A, Senja Road (Rooftop area)

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
Sunday (4 Apr 2021)	Min			65	57	61	63	54	63	64	55
	Max			65	64	68	67	66	66	66	65
	Average / Overall	65	62	65	60	65	65	60	65	65	60

Table 33 Summary of Baseline Airborne Noise Monitoring Results for Monday – Saturday at N8 – Near Teck Whye Secondary School, facing the Pangsua Canal

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
Monday – Saturday (1 Apr 2021 – 3 Apr 2021 and 5 Apr 2021 – 8 Apr 2021)	Min			49	46	47	48	45	48	49	45
	Max			52	51	64	58	53	62	54	52
	Average / Overall	52	49	51	48	51	51	48	51	50	48

Table 34 Summary of Baseline Airborne Noise Monitoring Results for Sunday and Public Holidays at N8 – Near Teck Whye Secondary School, facing the Pangsua Canal

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
Sunday (4 Apr 2021)	Min			49	46	48	48	45	48	49	46
	Max			50	50	64	51	52	62	51	51
	Average / Overall	52	48	50	50	51	50	49	51	50	48

Summary of Baseline Airborne Noise Monitoring Data for proposed potential future infrastructure

Table 35 Summary of Baseline Airborne Noise Monitoring Results for Monday –Saturday at NM1 – Along Rail Corridor near Sungei Kadut Avenue

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
Monday – Saturday (19 Apr 2021 – 24 Apr 2021)	Min			52	48	51	51	47	52	49	47
	Max			55	53	59	57	55	59	56	54
	Average / Overall	55	51	53	51	55	53	51	55	53	50

Table 36 Summary of Baseline Airborne Noise Monitoring Results for Sunday and Public Holidays at NM1 – Along Rail Corridor near Sungei Kadut Avenue

Monitoring period		$L_{Aeq(12hours)}$, dB		$L_{Aeq(1hour)}$, dB		$L_{Aeq(5mins)}$, dB			$L_{Aeq(15mins)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 7:00 am	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am	7:00 am – 7:00 pm	7:00 pm – 11:00 pm	11:00 pm – 7:00 am
Sunday (25 Apr 2021)	Min			51	50	49	49	49	50	50	49
	Max			51	53	58	52	54	55	52	53
	Average / Overall	52	51	51	51	52	51	51	52	51	51

Baseline Airborne Noise Monitoring Data (Operational Phase)

Baseline airborne noise monitoring data for the operational phase were recorded at 25E Sungei Kadut Street 1 to capture ambient train noise levels, and at NMT01 and NMT02 to capture ambient traffic noise levels along Choa Chu Kang North 7, Choa Chu Kang Crescent corresponding to the peak traffic period recorded during traffic count.

Details on the baseline airborne noise methodology and findings for train noise (i.e., 25E Sungei Kadut Street 1) are provided in a separate standalone appendix titled – 'Baseline Airborne Noise Monitoring Report (Train Noise)', extracted from the Noise and Vibration Study report.

Following baseline airborne noise results captured for the assessment of traffic noise impacts from the proposed elevated vehicular bridge have been extracted from the standalone Traffic Noise Impact Assessment (NIA) report. Similarly, detailed information on the methodologies are provided in the separate standalone Traffic NIA report.

Baseline Airborne Noise Monitoring Data for proposed Elevated Vehicular Bridge (DTL2e)

Table 37 Baseline Noise Monitoring Results at NMT01 – HDB Block 656 Chao Chu Kang Crescent

Monitoring period	Traffic Peak Period $L_{Aeq(1\ hour)}$, dB
28 September 2021	60

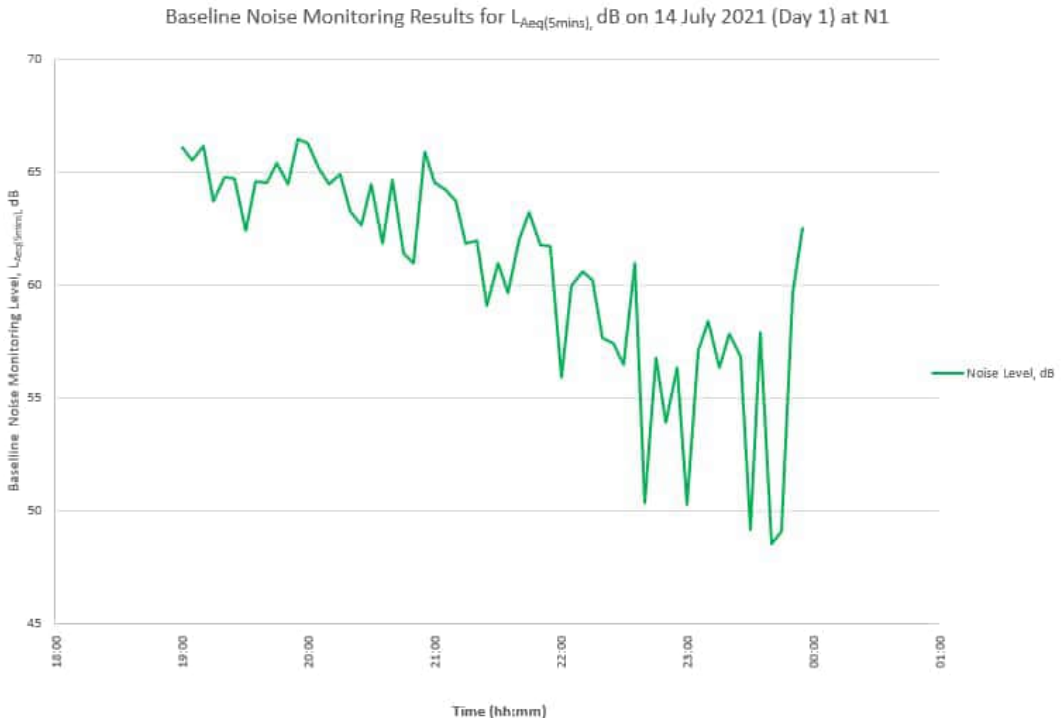
Table 38 Baseline Noise Monitoring Results at NMT02 – HDB Block 692A Chao Chu Kang Crescent

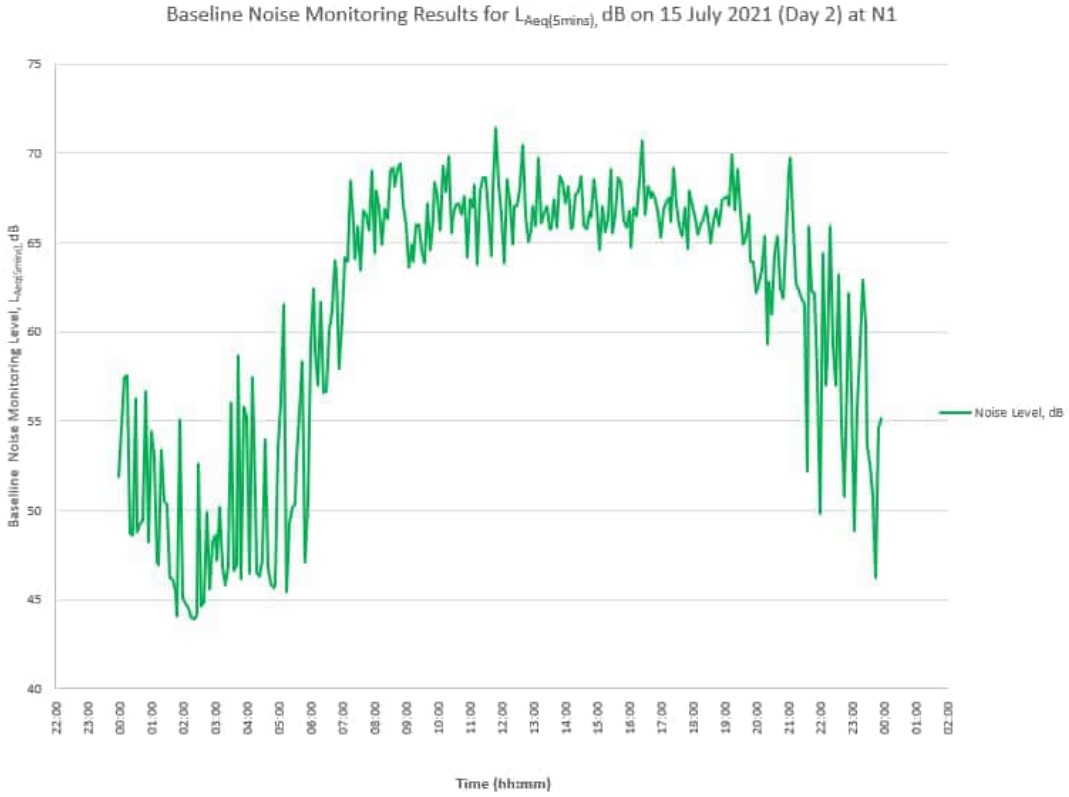
Monitoring period	Traffic Peak Period $L_{Aeq(1\ hour)}$, dB
28 September 2021	61

Annex A

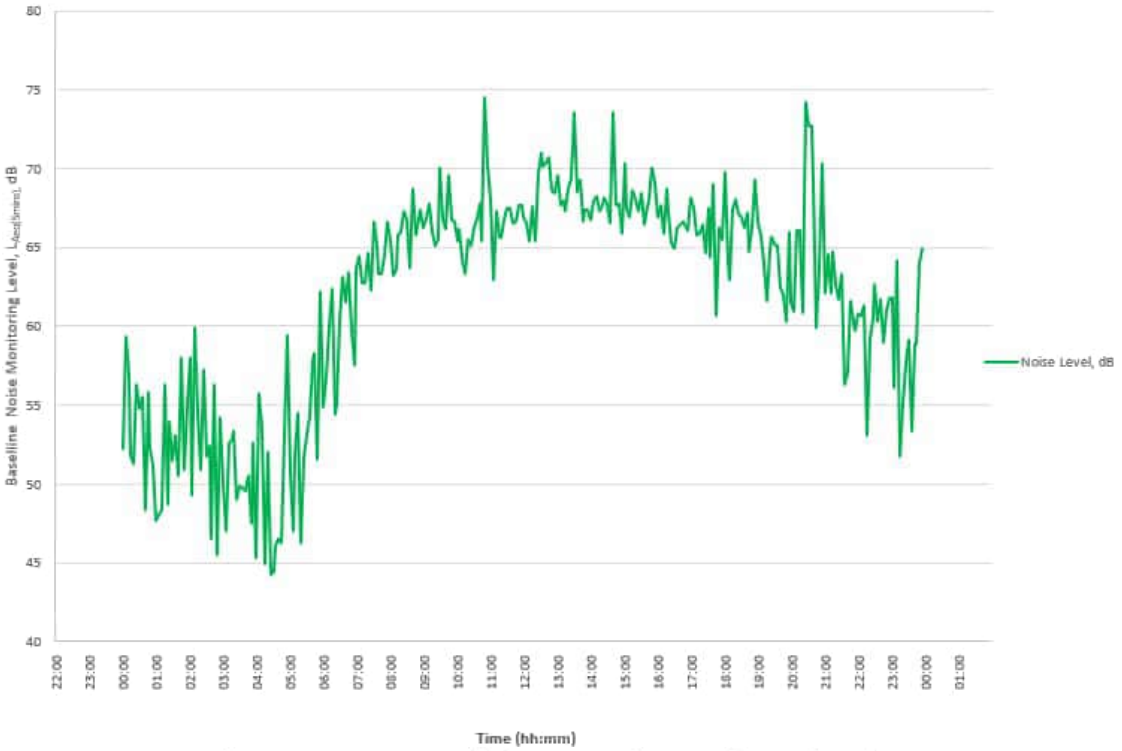
Daily Monitoring Data at proposed Downtown Line 2 Extension (DTL2e)

Daily Monitoring Data at N1 – Nexxis Asia Pte. Ltd., Sungei Kadut Street 3

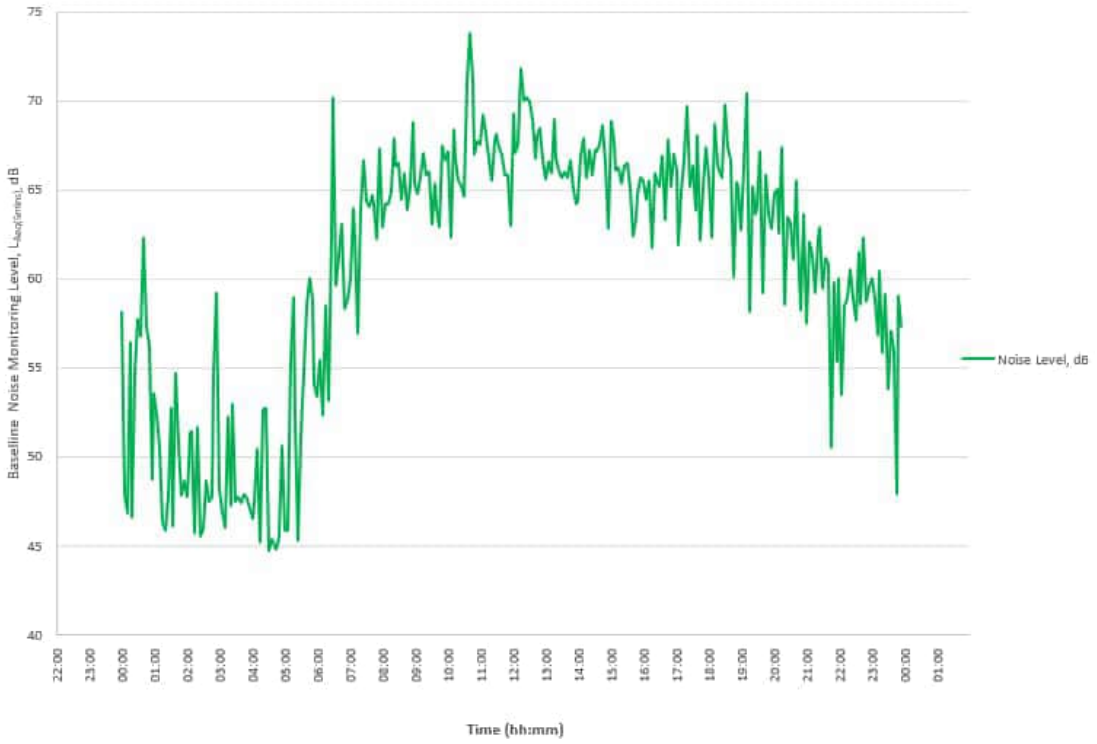




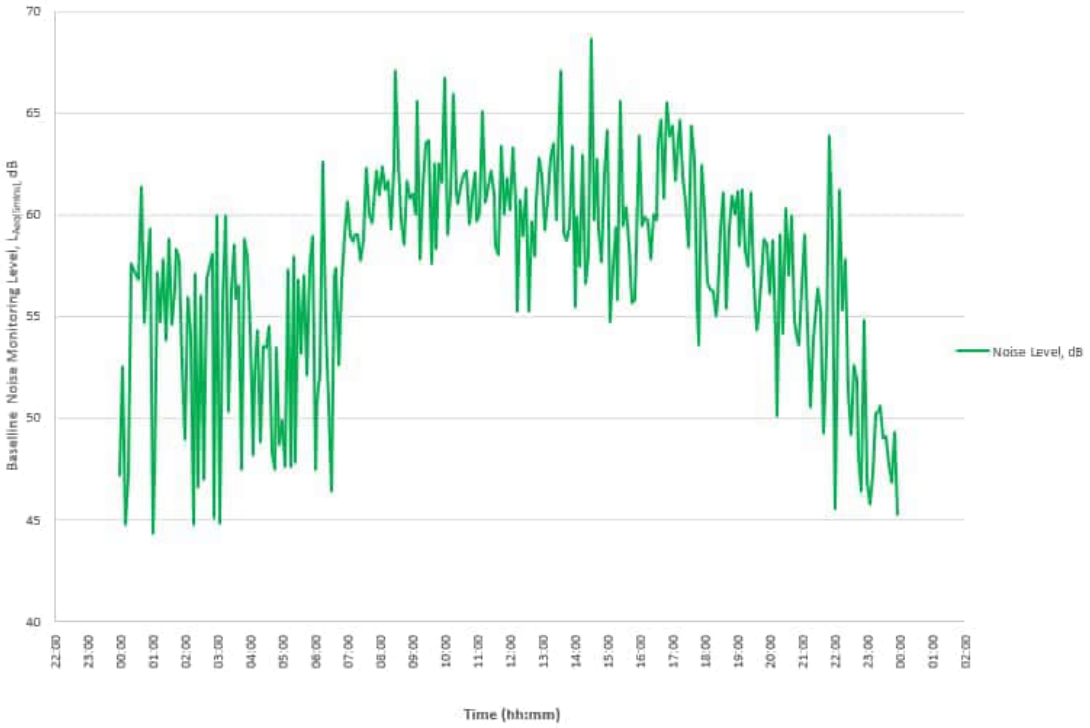
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 16 July 2021 (Day 3) at N1



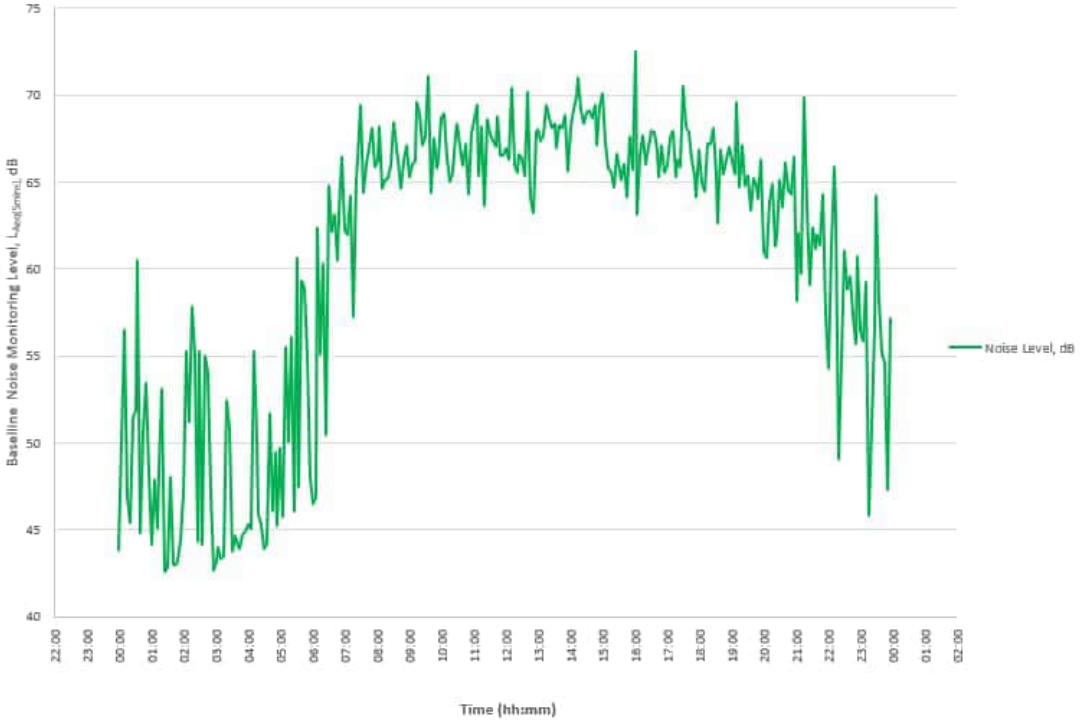
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 17 July 2021 (Day 4) at N1



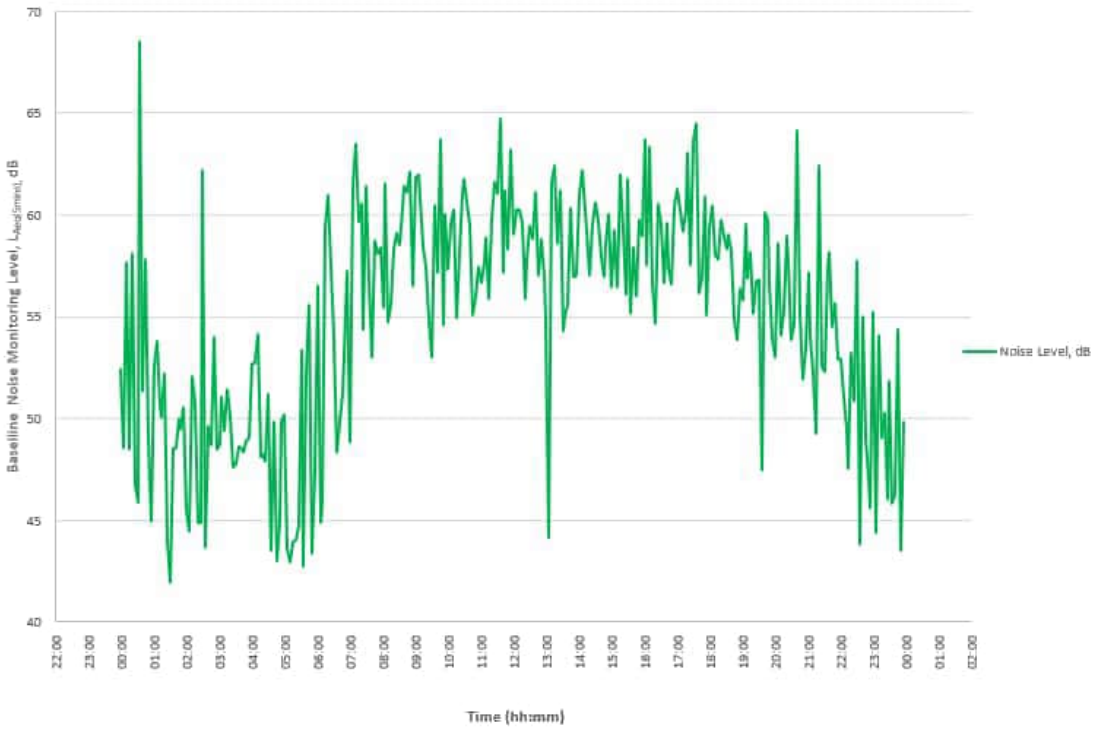
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 18 July 2021 (Day 5) at N1



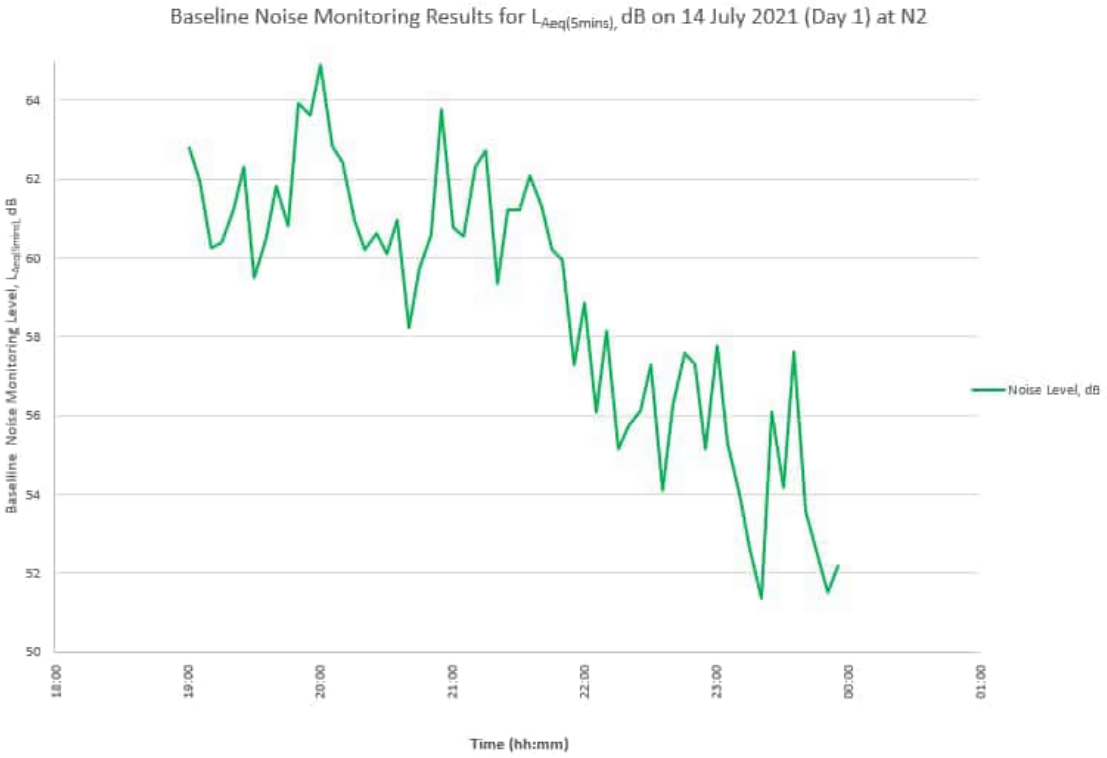
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 19 July 2021 (Day 6) at N1

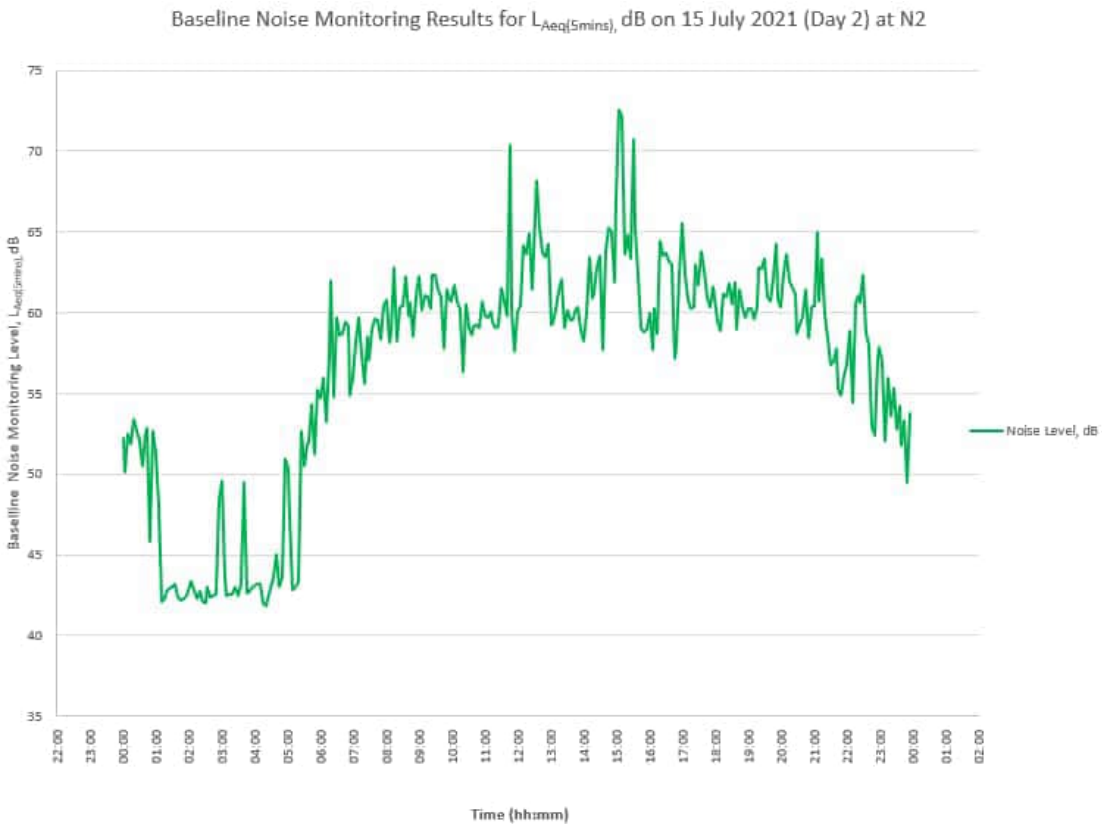


Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 20 July 2021 (Day 7) at N1

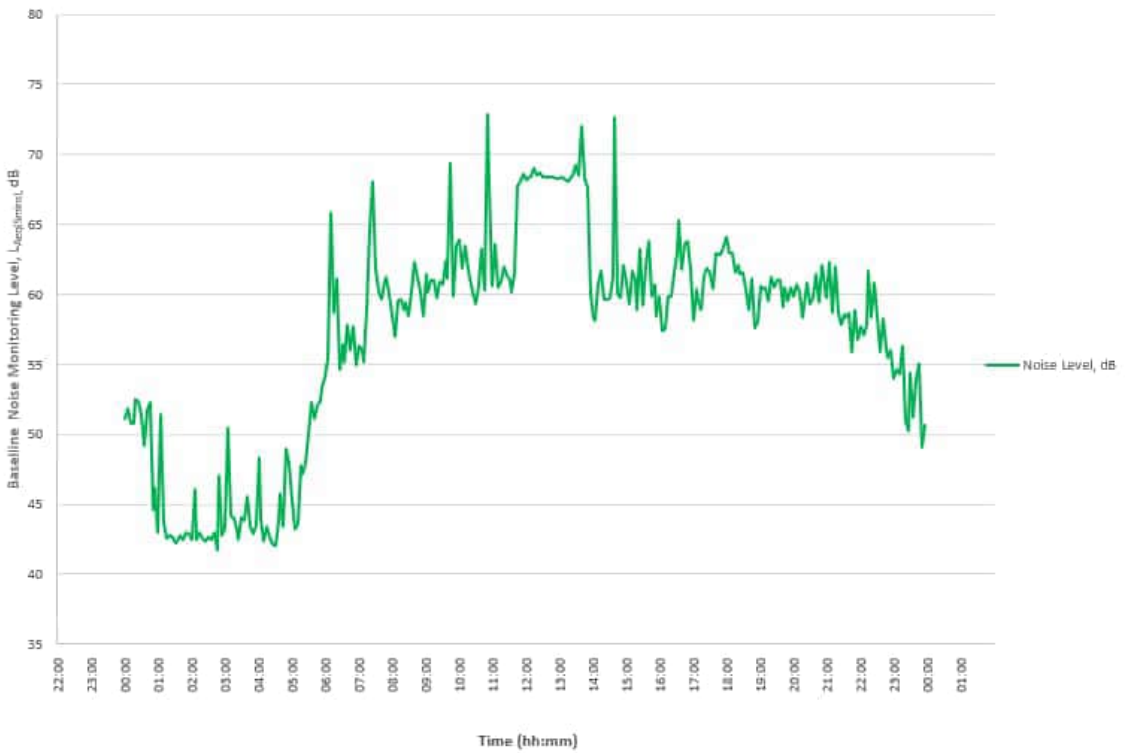


Daily Monitoring Data at N2 – JTC Lot No. MK11-00541K, near The Stone Gallery by Hafary, Sungei Kadut Central

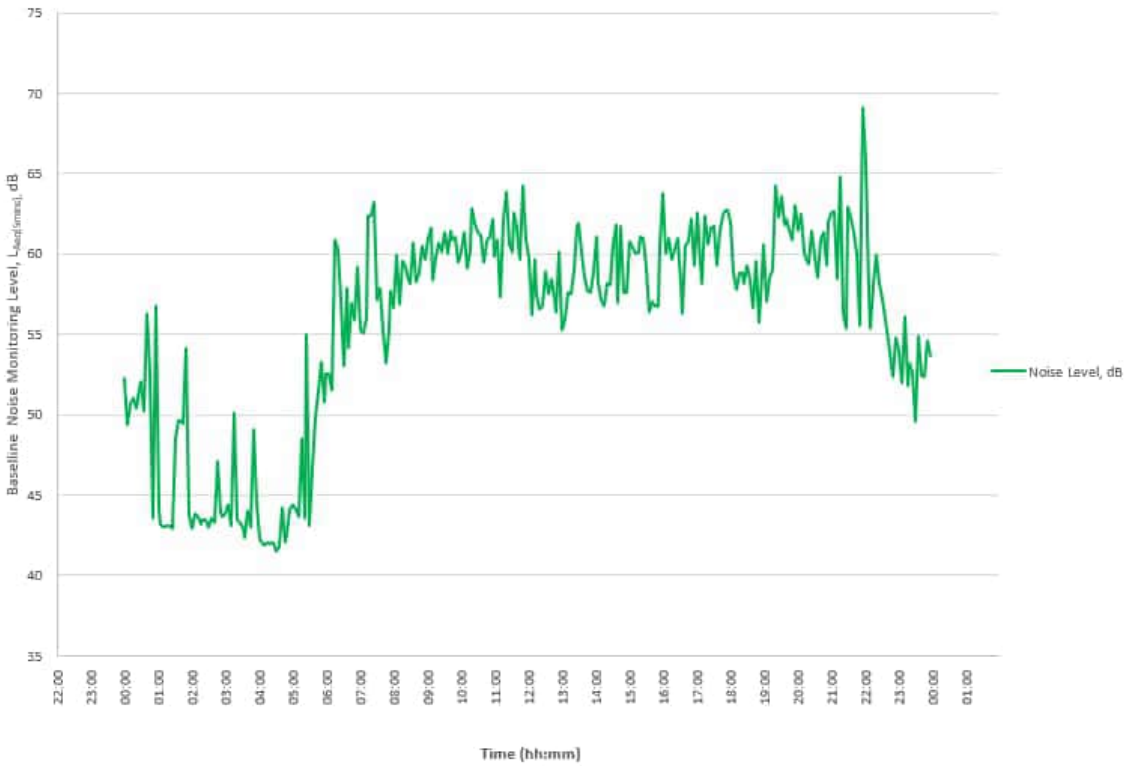




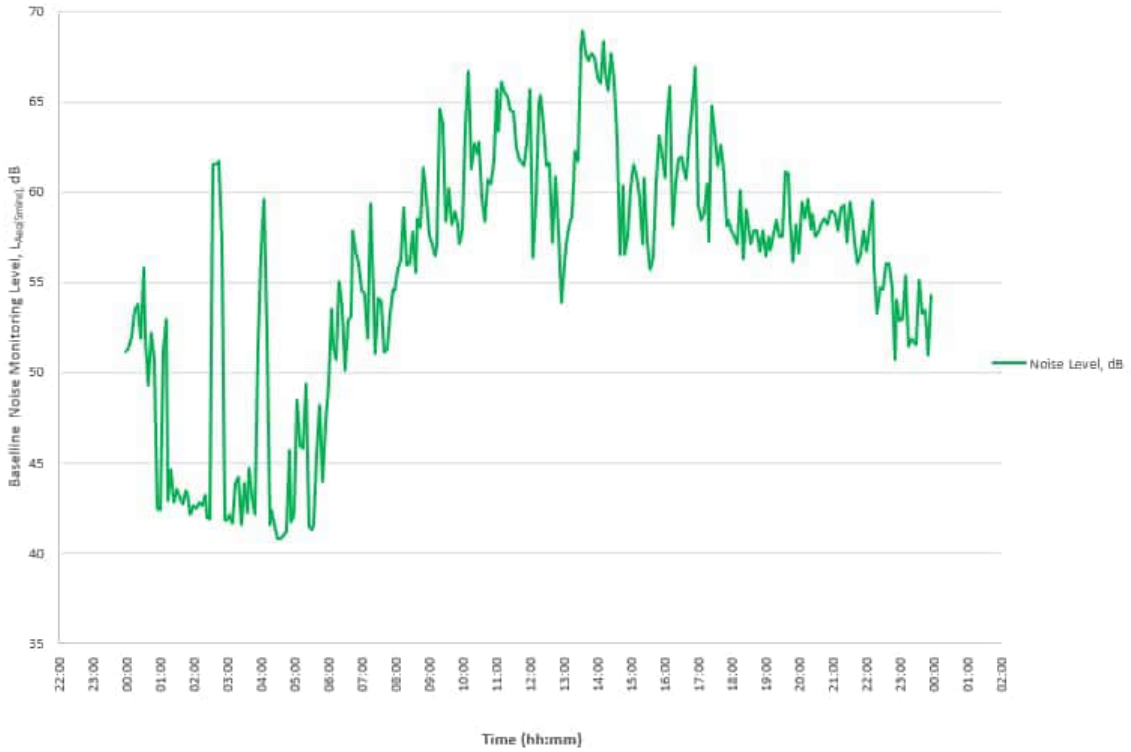
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 16 July 2021 (Day 3) at N2



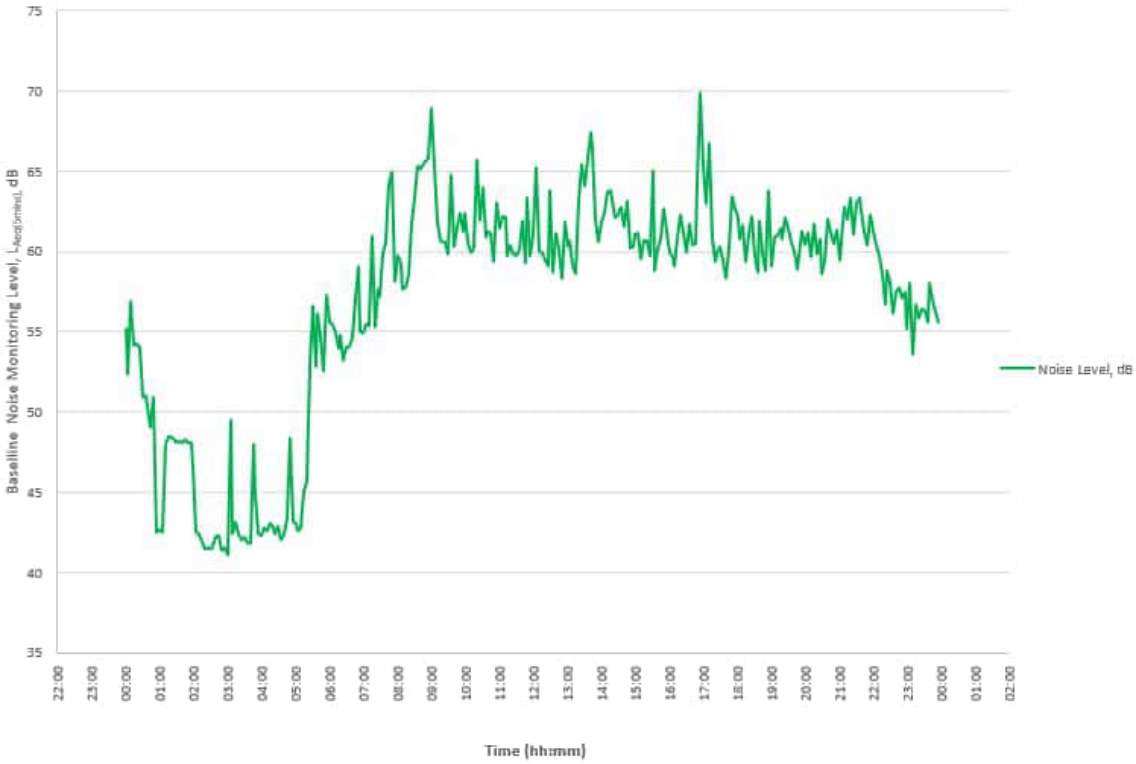
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 17 July 2021 (Day 4) at N2



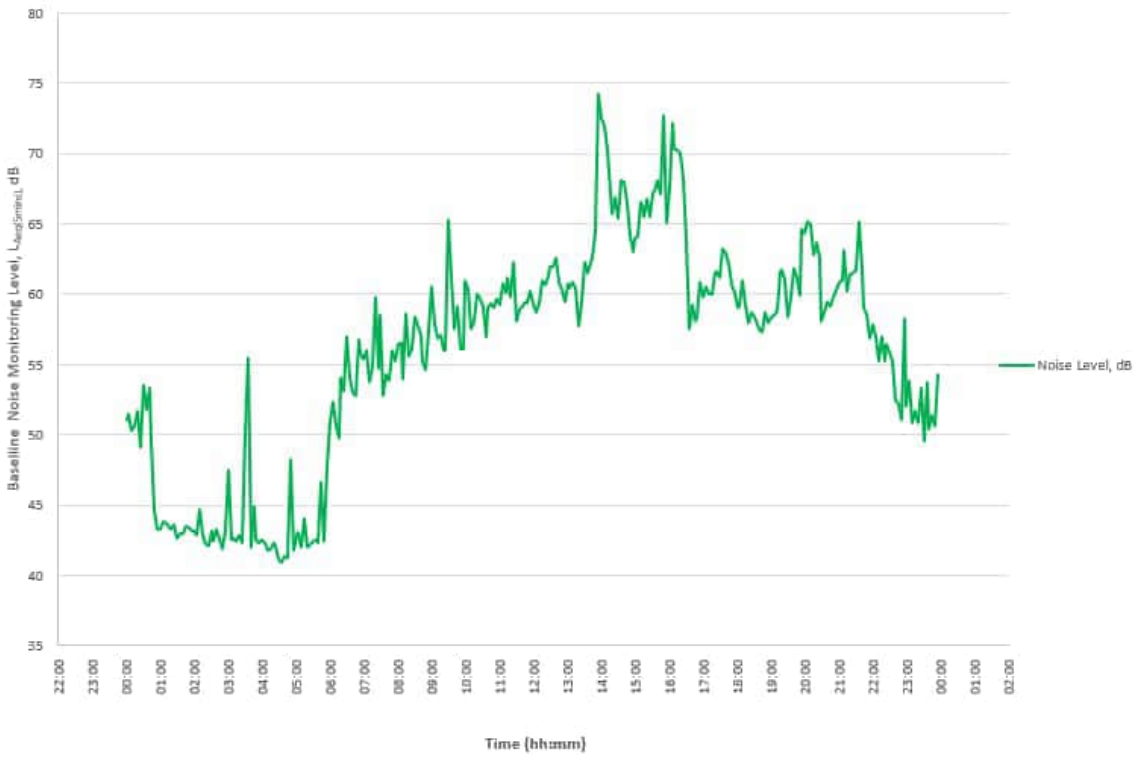
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 18 July 2021 (Day 5) at N2



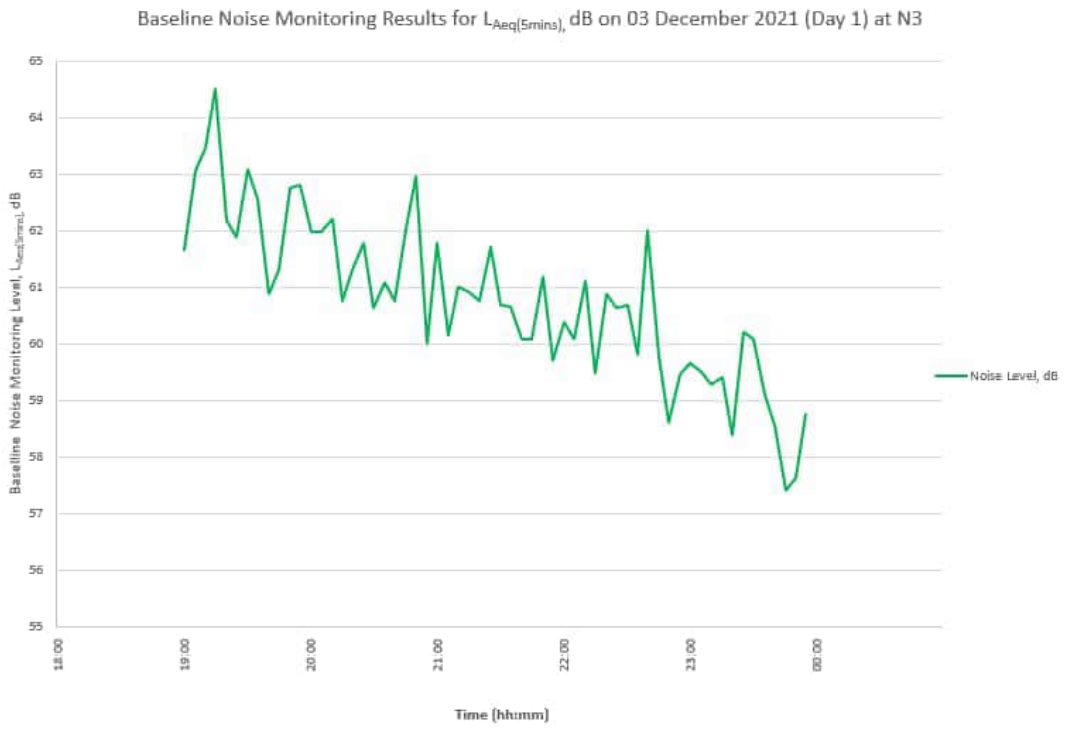
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 19 July 2021 (Day 6) at N2

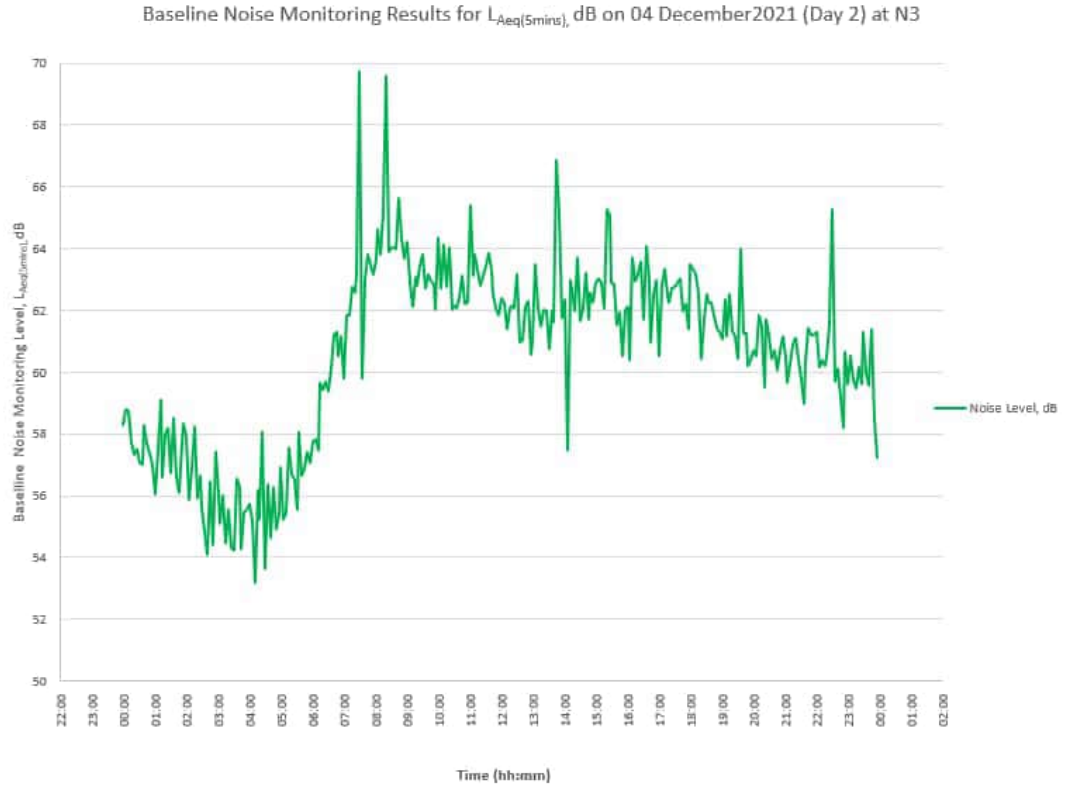


Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 20 July 2021 (Day 7) at N2

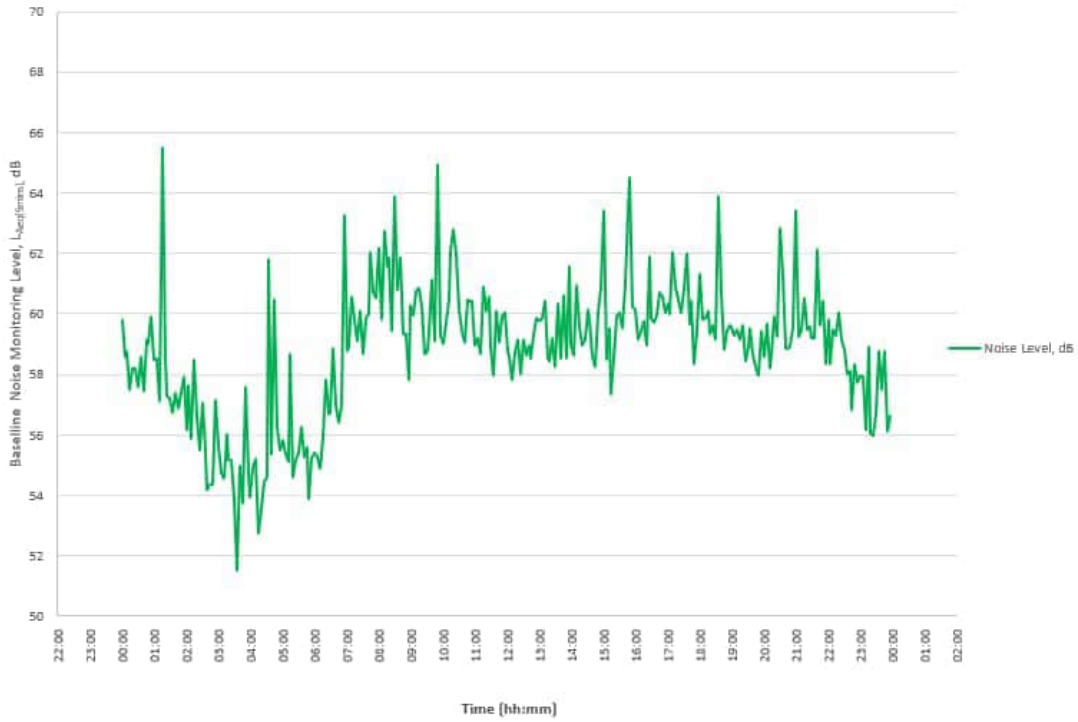


Daily Monitoring Data at N3 - In vicinity of JSM Construction Group Pte Ltd, facing Woodlands Road

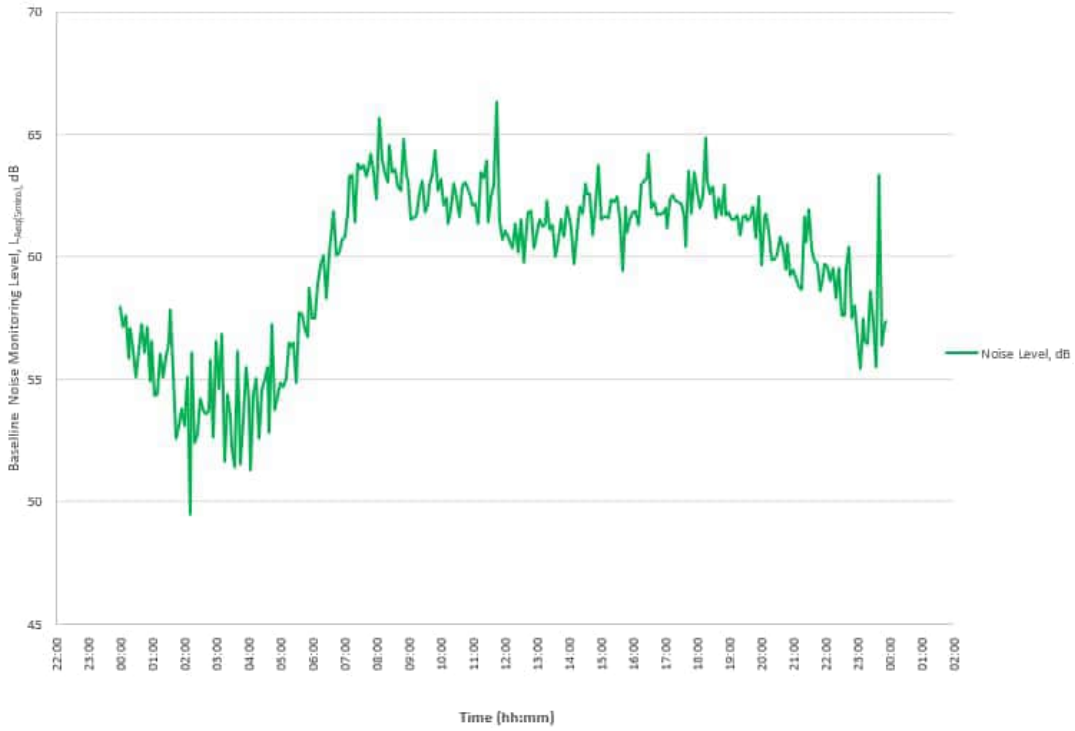




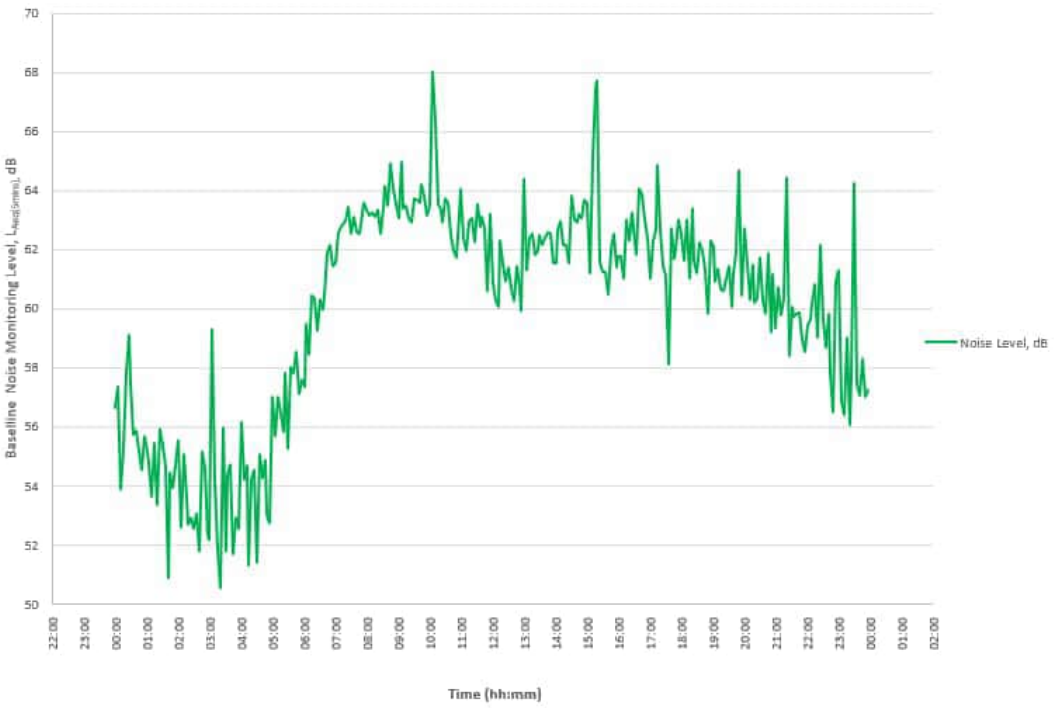
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 05 December2021 (Day 3) at N3



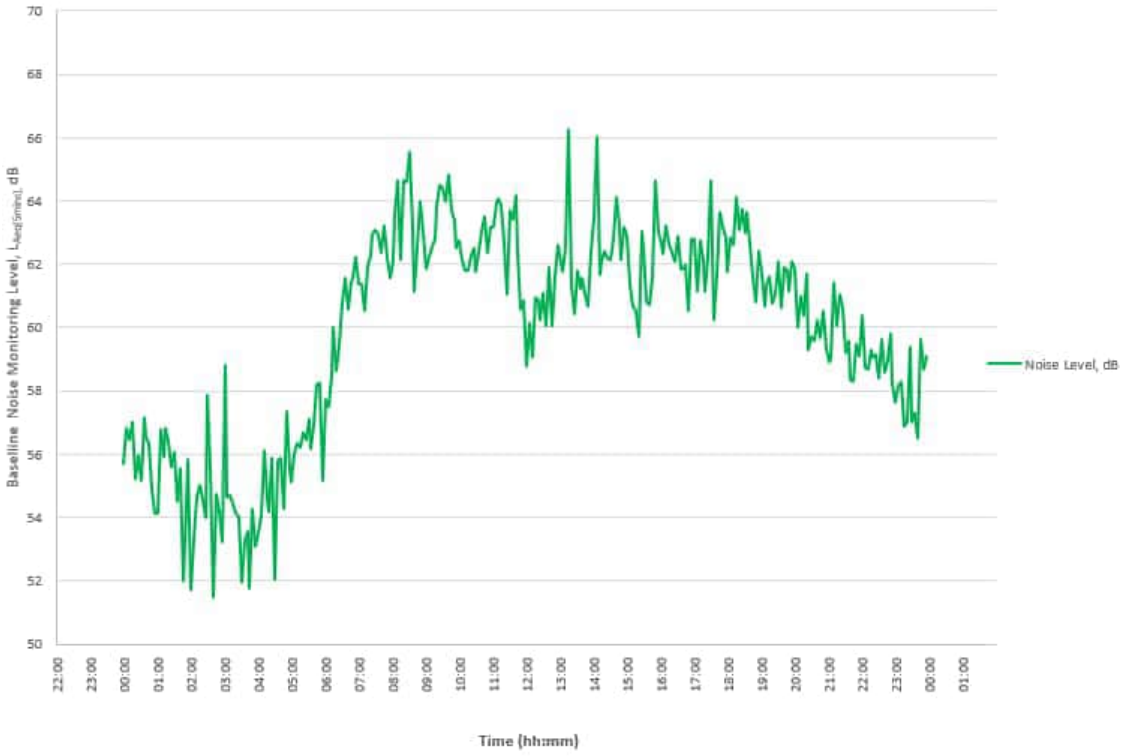
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 06 December 2021 (Day 4) at N3



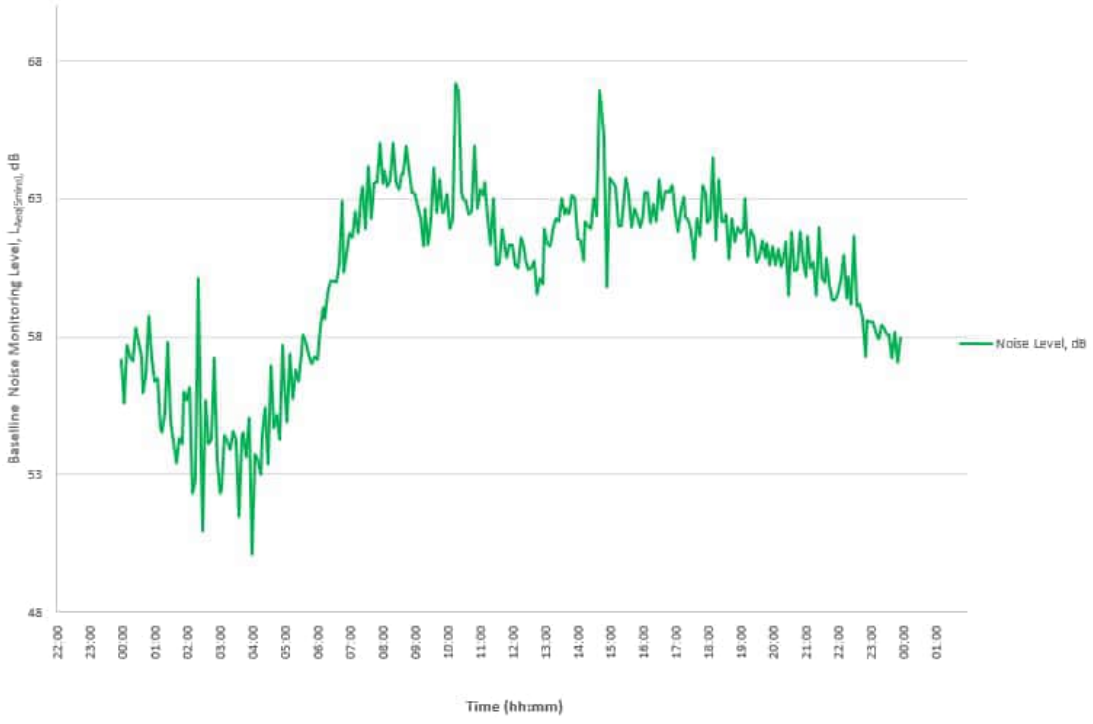
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 07 December 2021 (Day 5) at N3



Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 08 December 2021 (Day 6) at N3

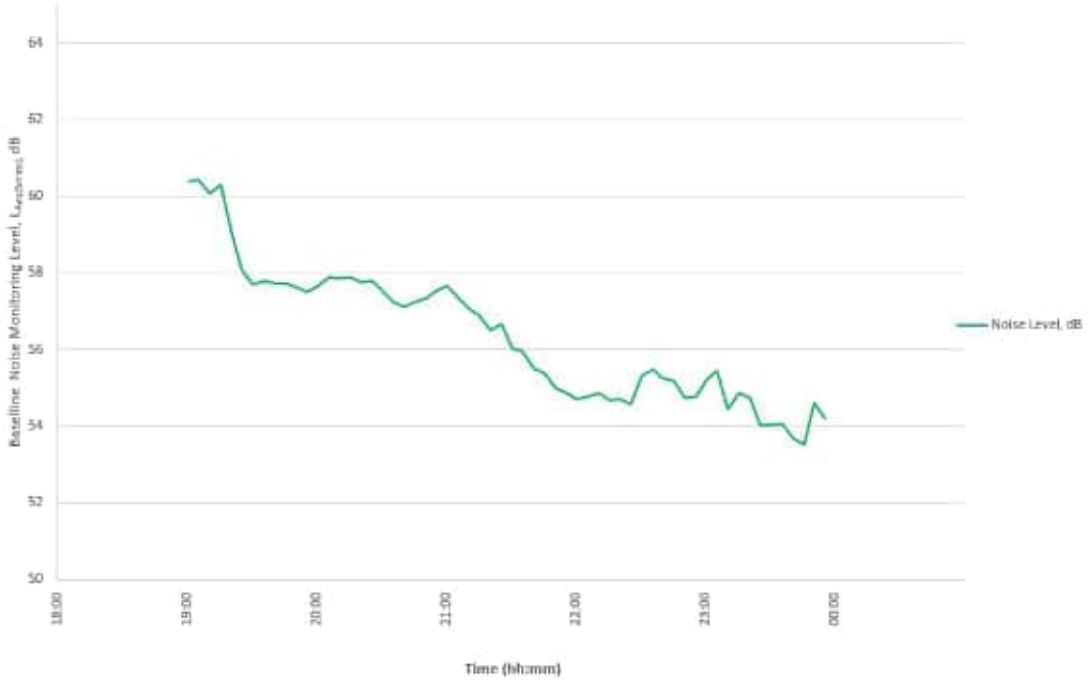


Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 09 December 2021 (Day 7) at N3

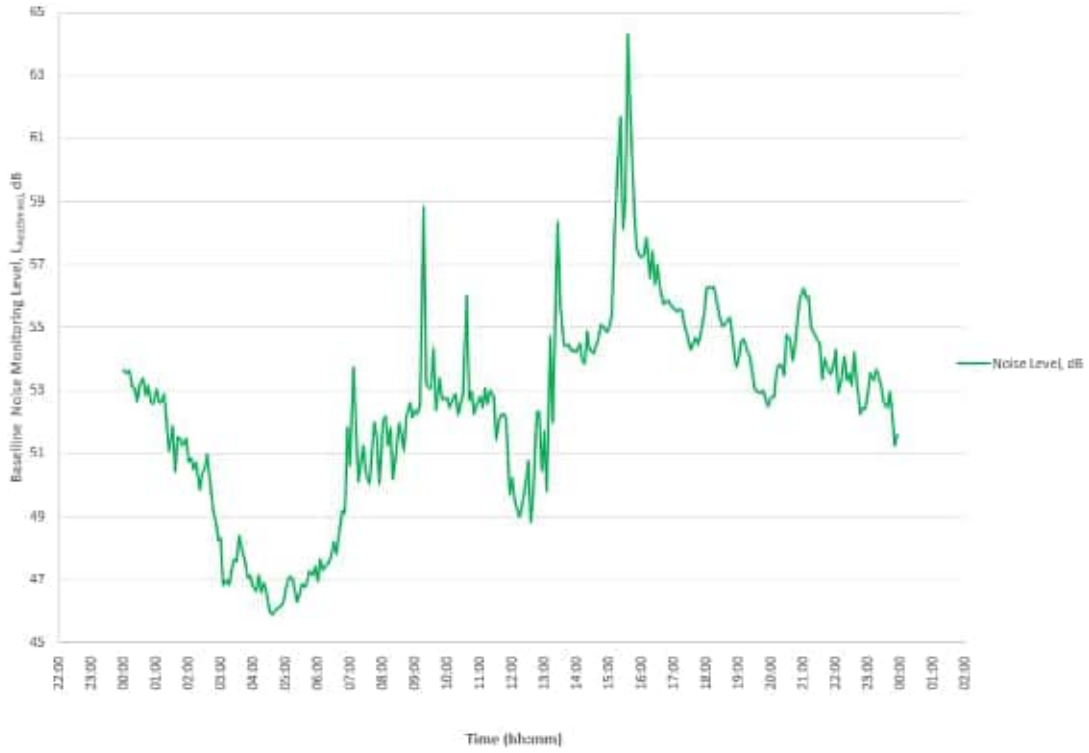


Daily Monitoring Data at N4 – In vicinity of HDB Block 691B, Chao Chu Kang Crescent, facing Pangsua Canal

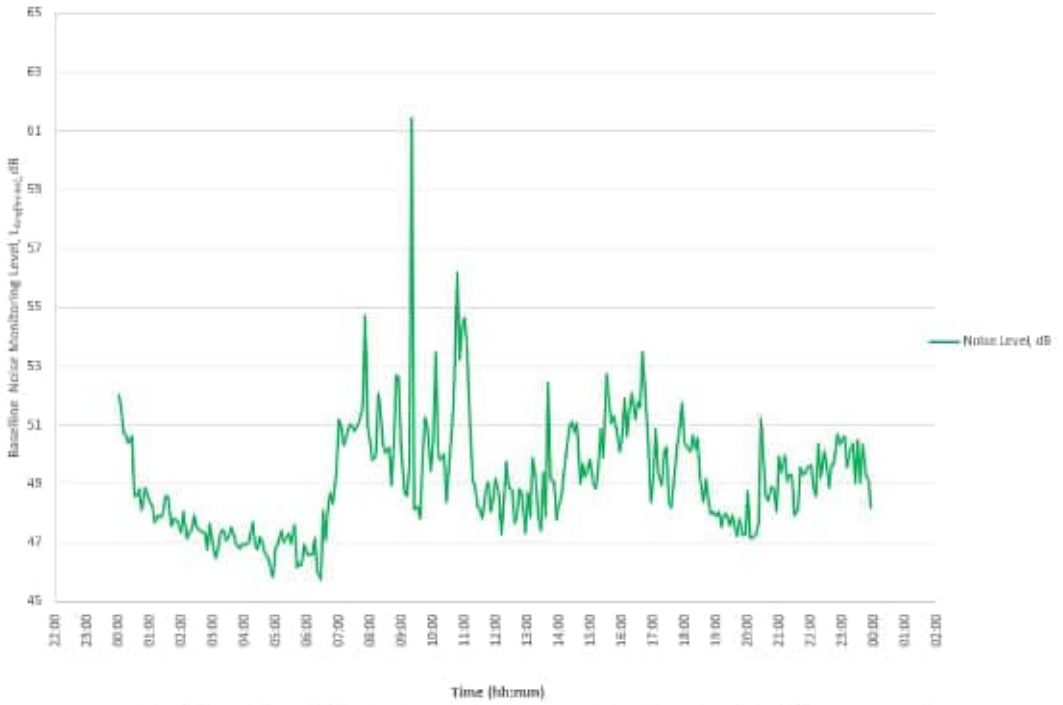
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 10 December 2021 (Day 1) at N4



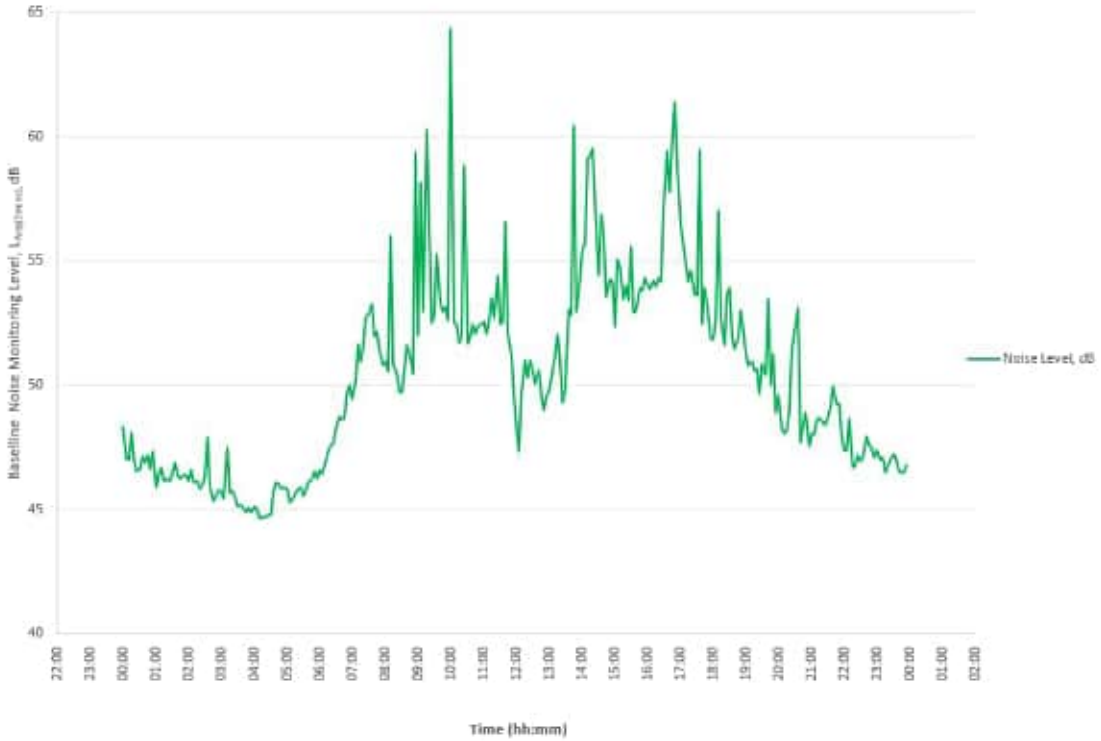
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 11 December 2021 (Day 2) at N4



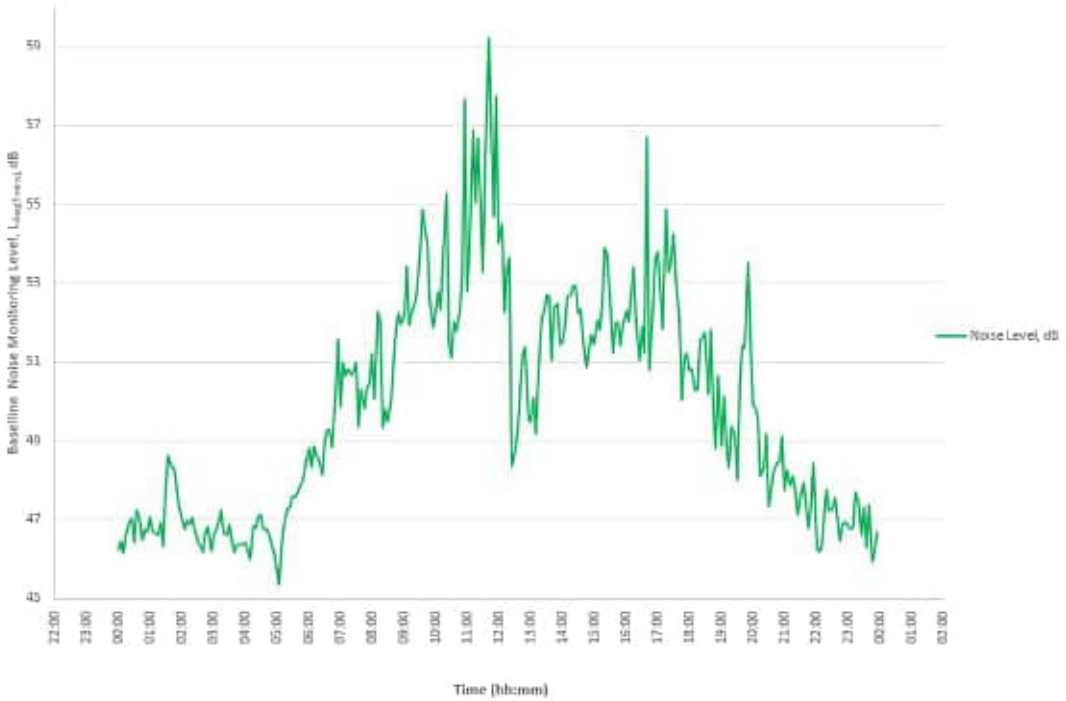
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 12 December 2021 (Day 3) at N4



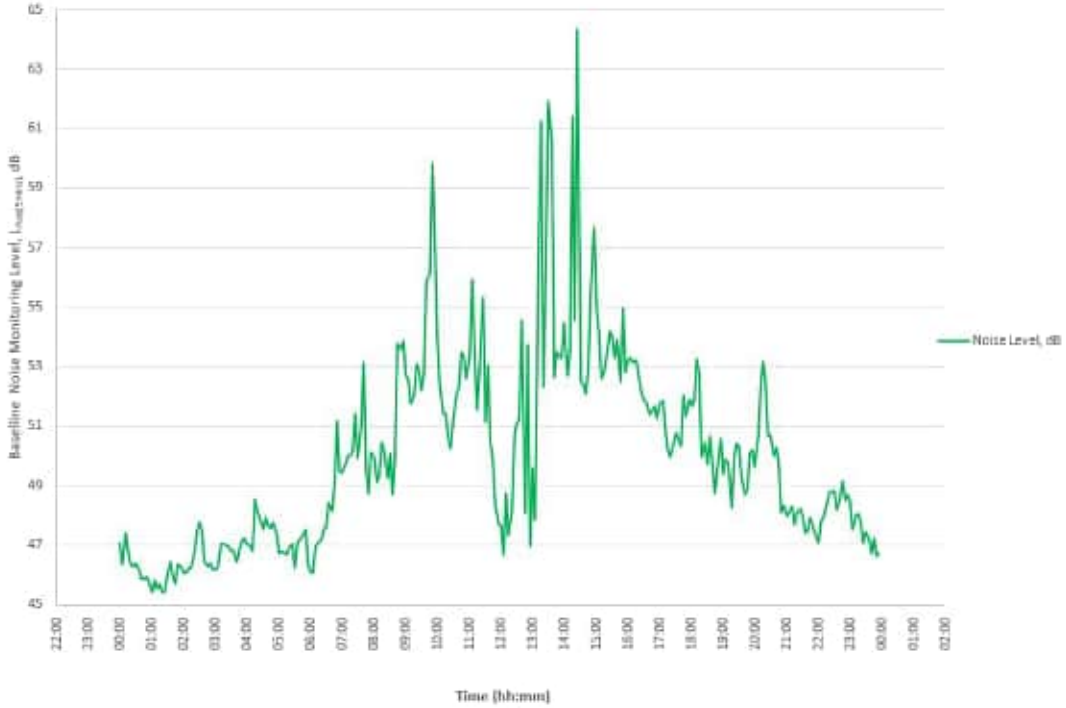
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 13 December 2021 (Day 4) at N4



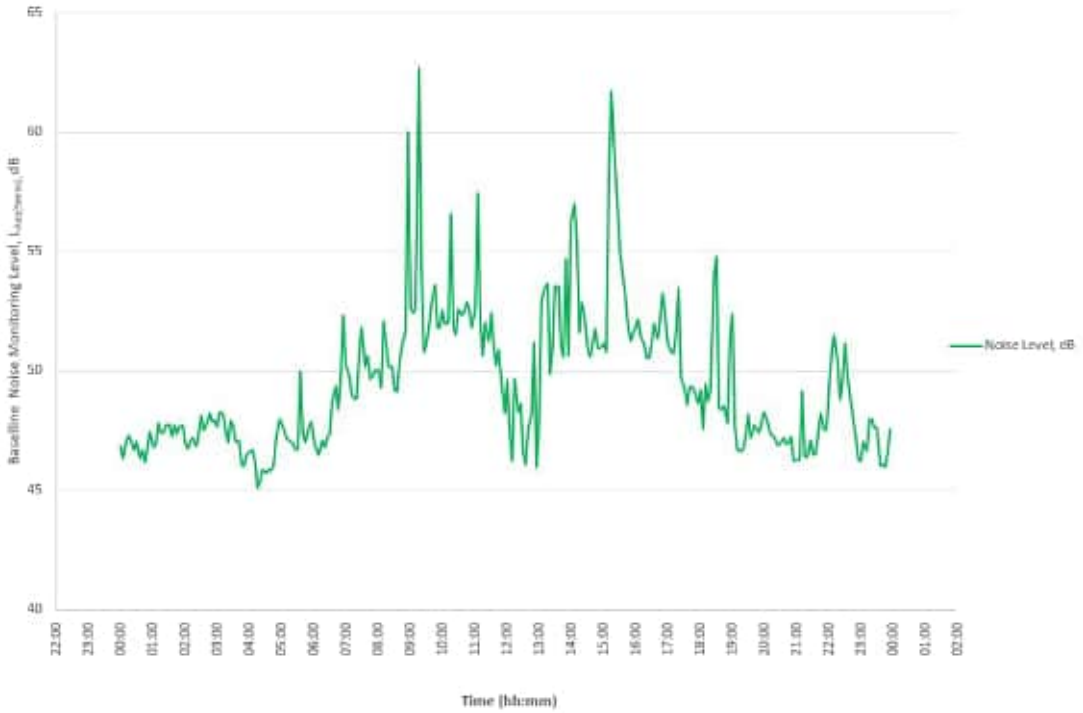
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 14 December 2021 (Day 5) at N4



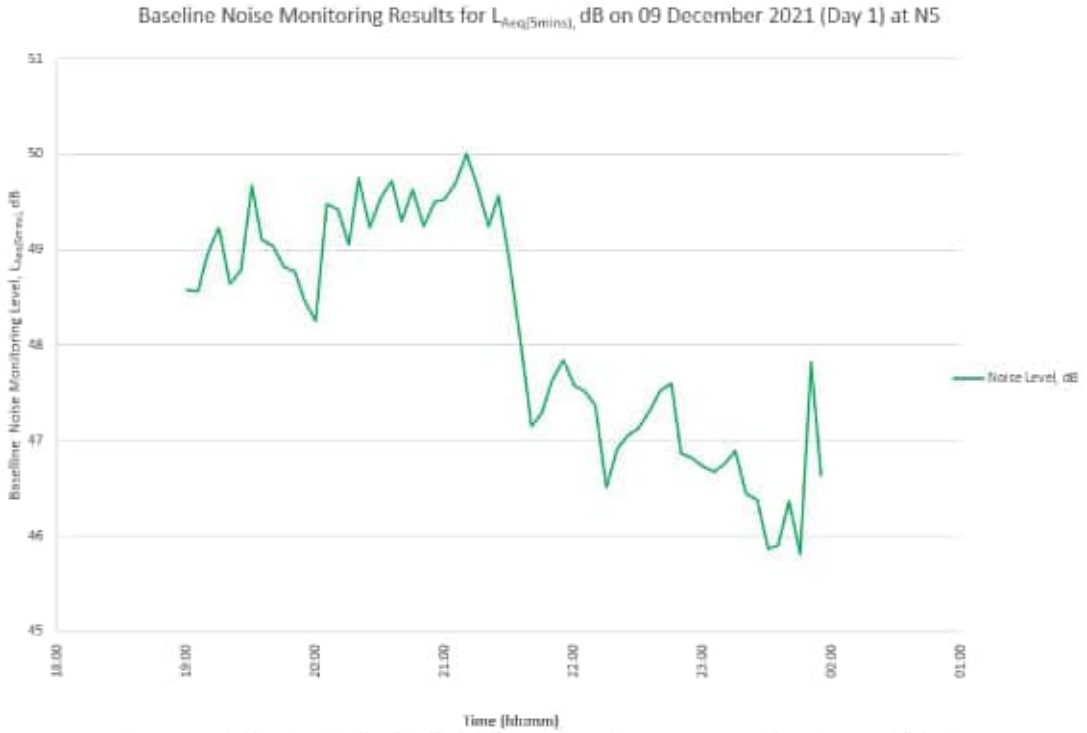
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 15 December 2021 (Day 6) at N4

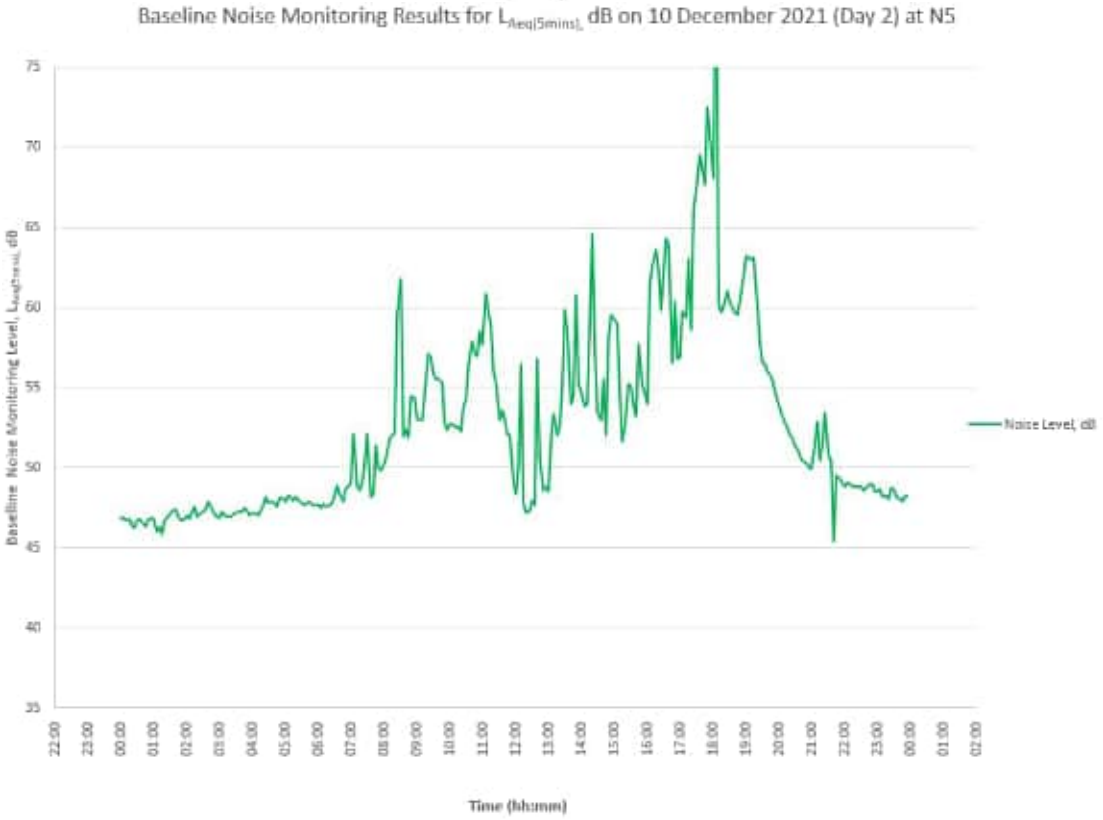


Baseline Noise Monitoring Results for $L_{Aeq(5min)}$, dB on 16 December 2021 (Day 7) at N4

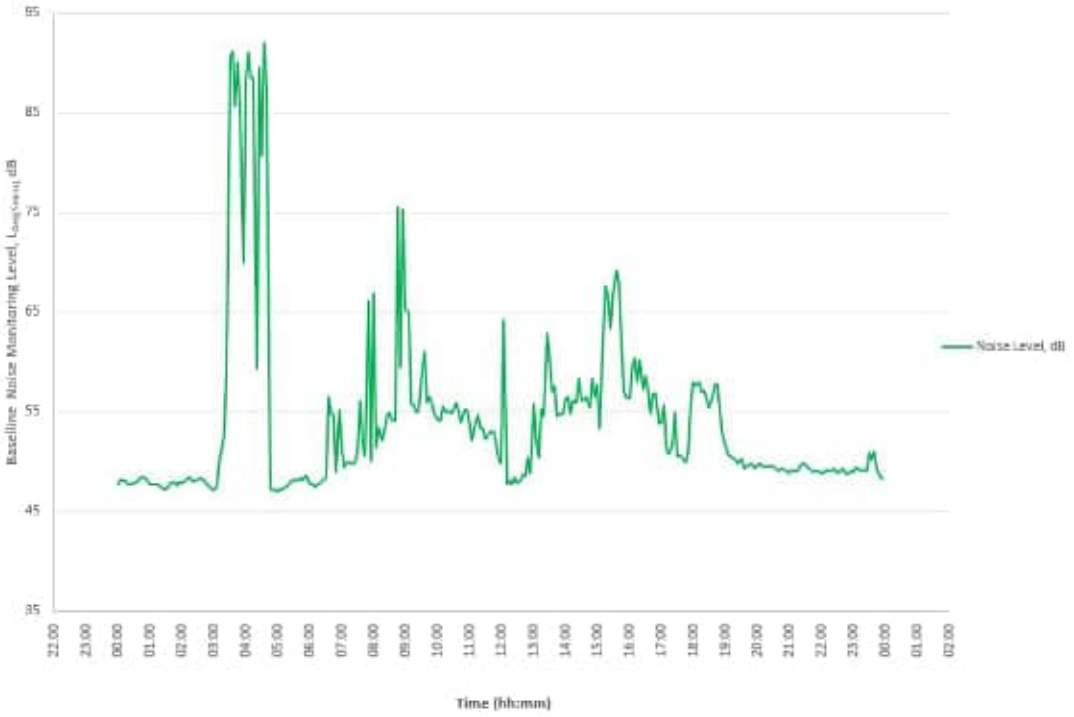


Daily Monitoring Data at N5 – In vicinity of commercial buildings such as Chong Timber Pte Ltd, along Rail Corridor

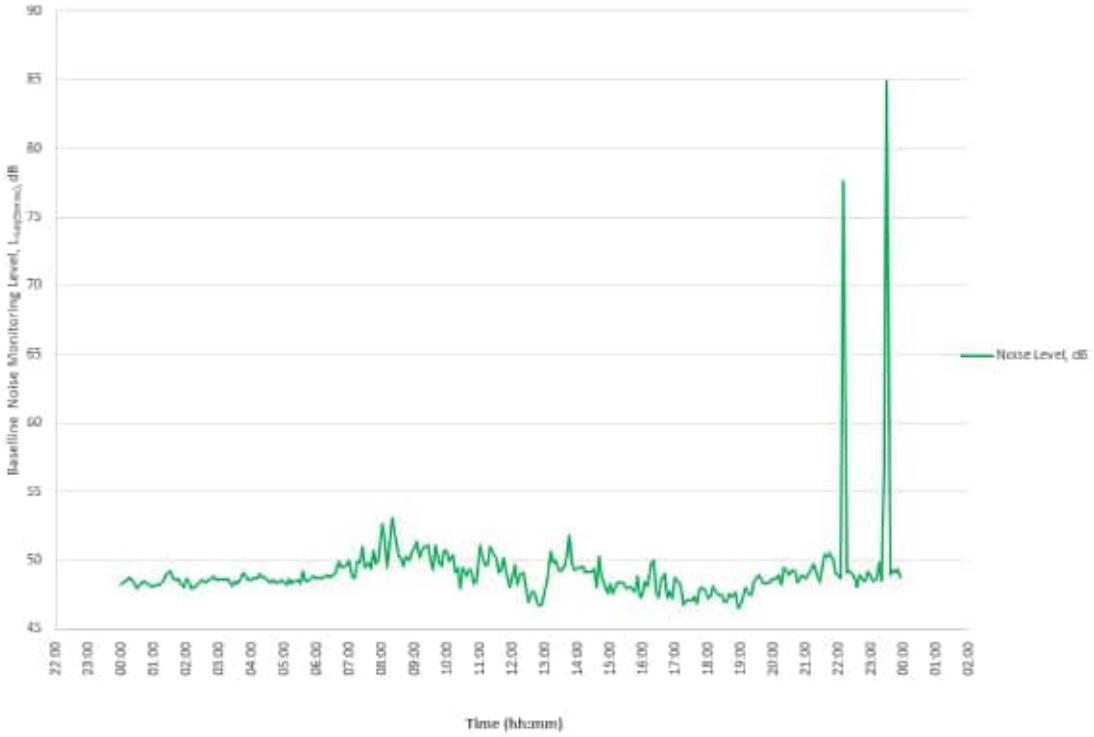




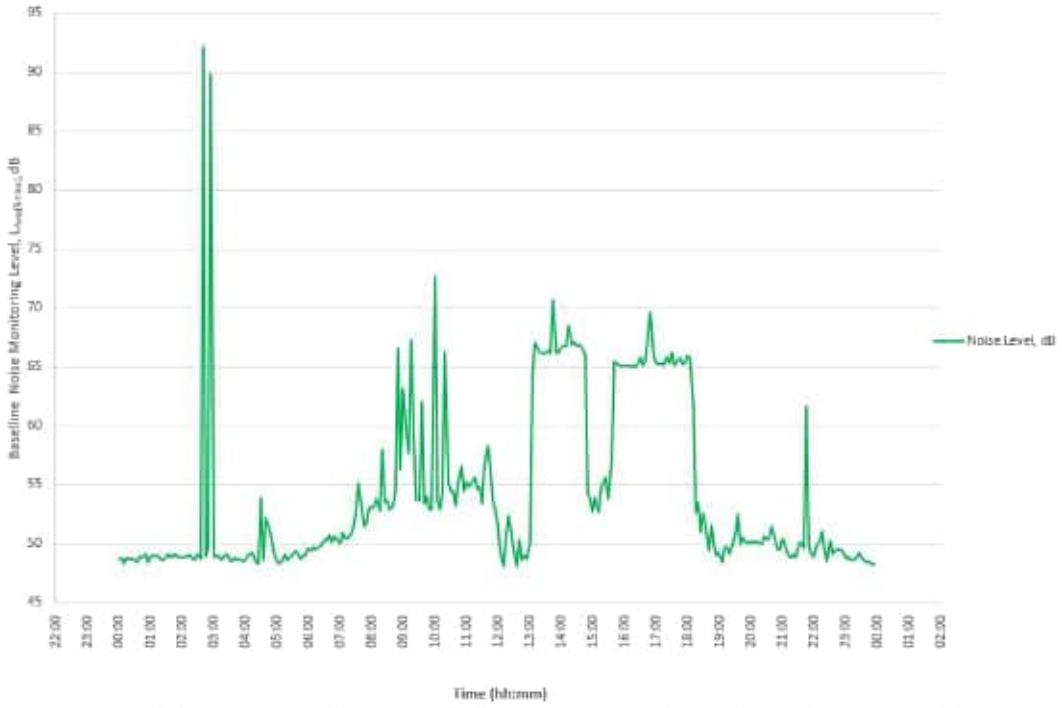
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 11 December 2021 (Day 3) at N5



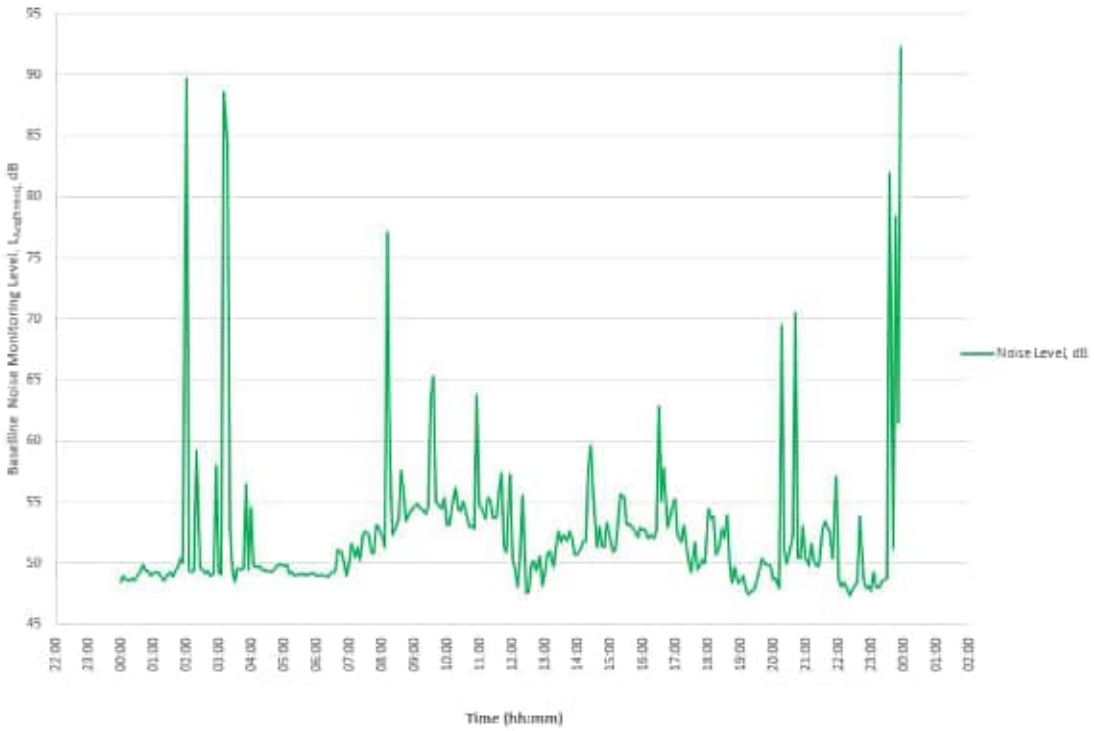
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 12 December 2021 (Day 4) at N5



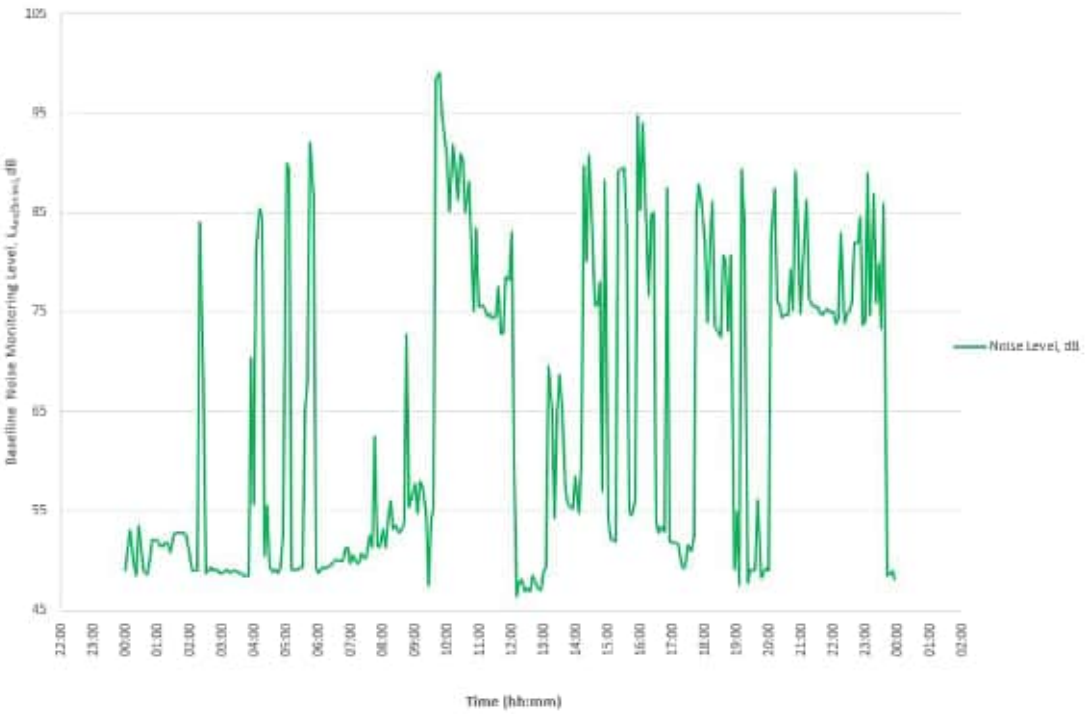
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 13 December 2021 (Day 5) at N5



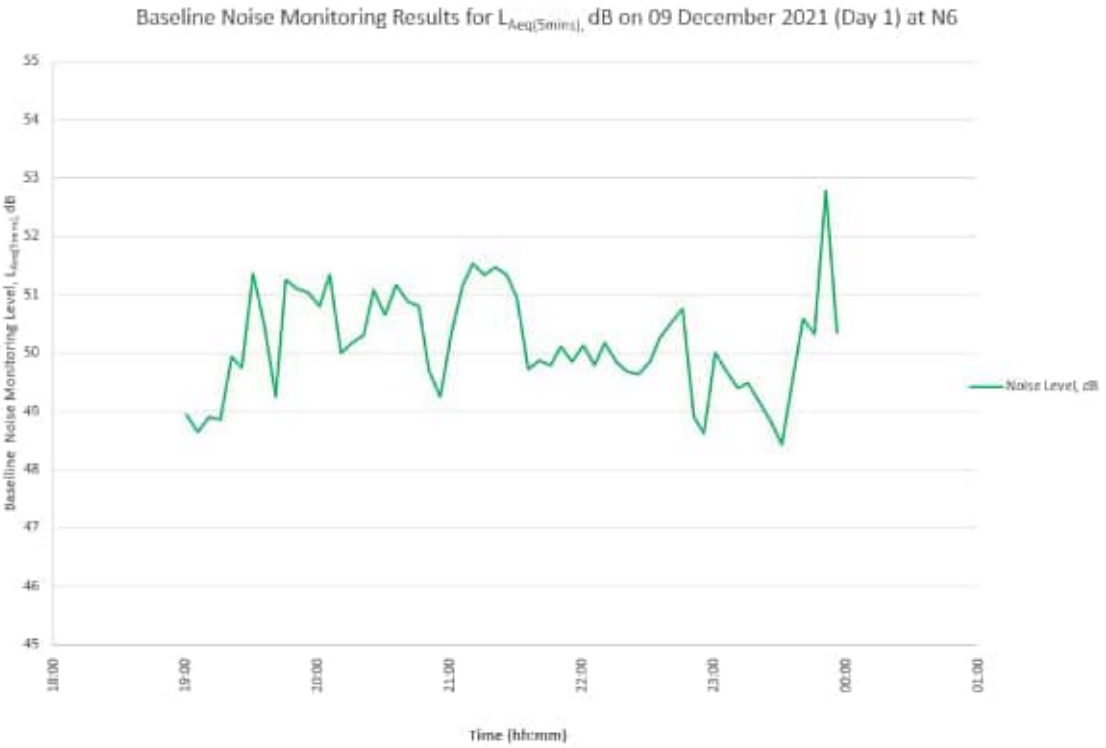
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 14 December 2021 (Day 6) at N5

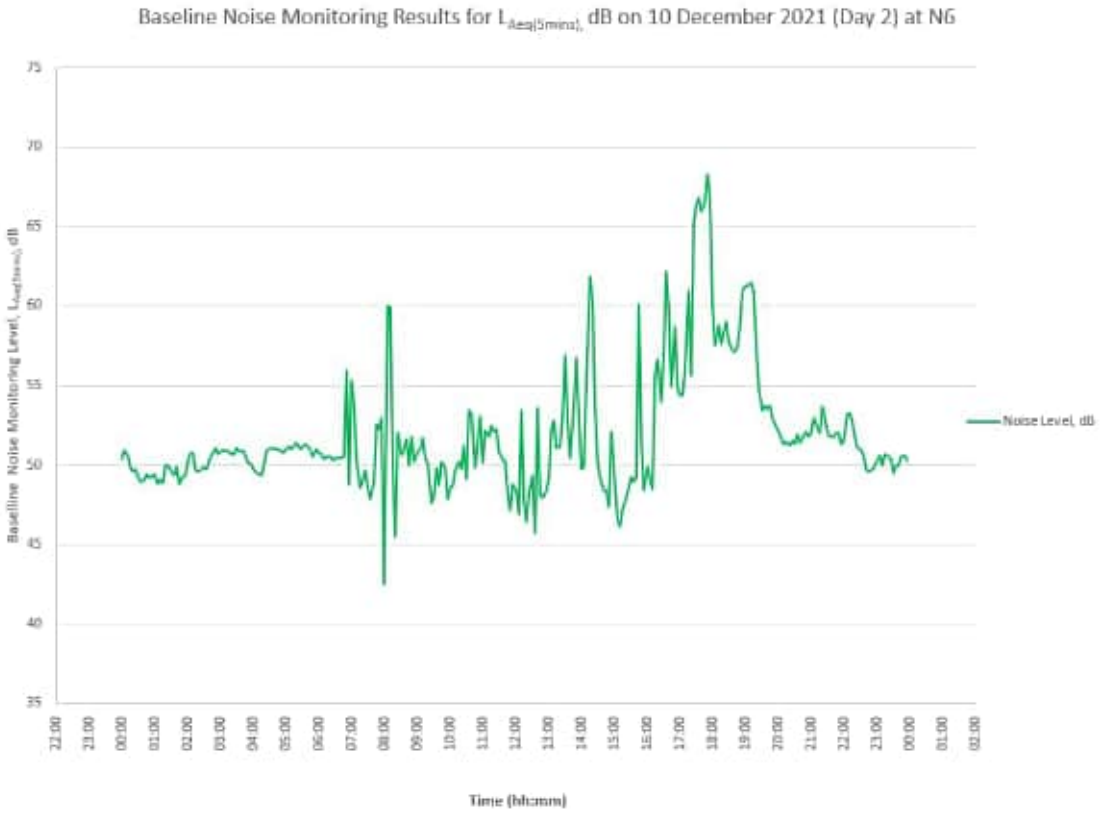


Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 15 December 2021 (Day 7) at N5

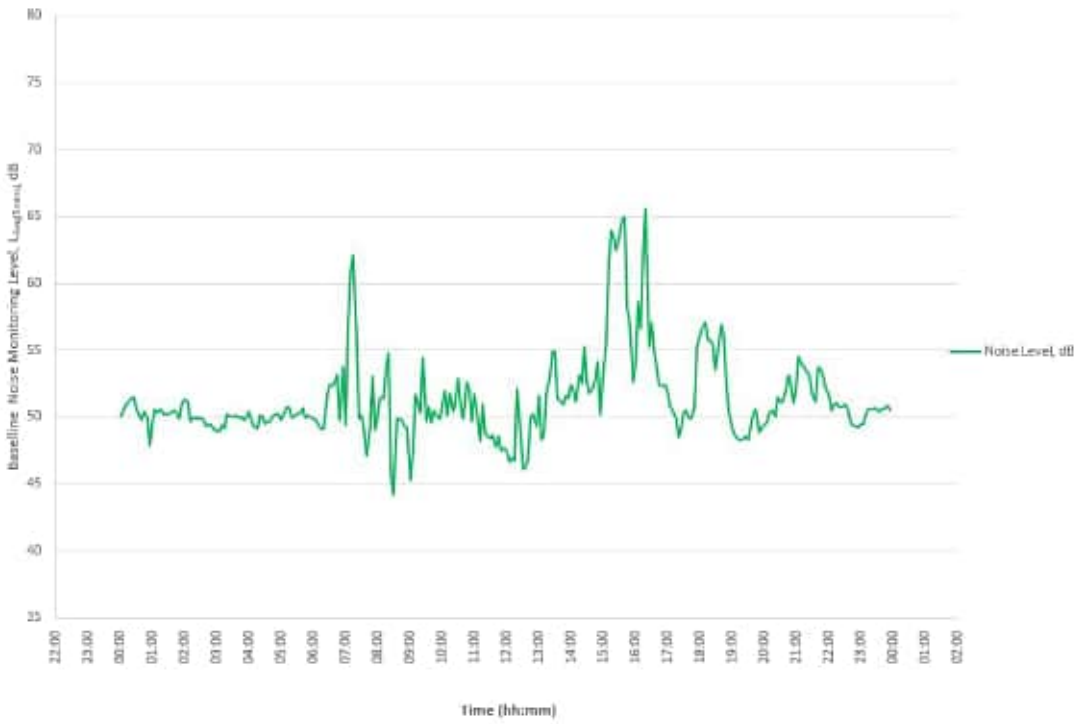


Daily Monitoring Data at N6 – Along Rail Corridor on side opposite and facing Windermere Residences

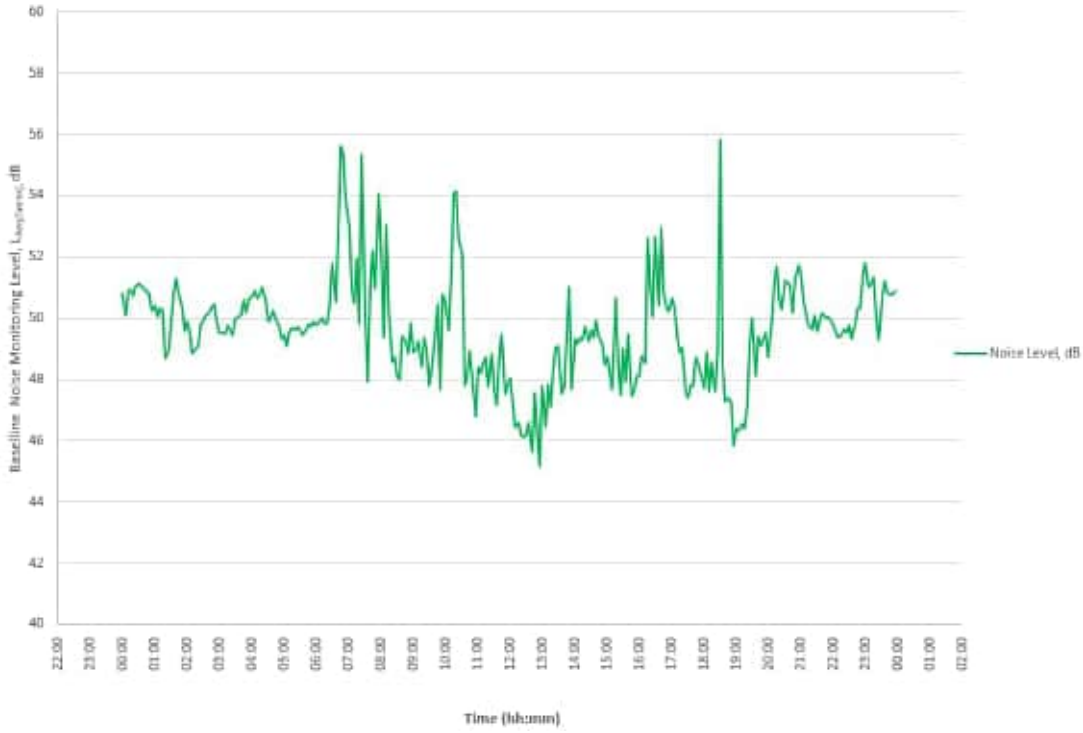




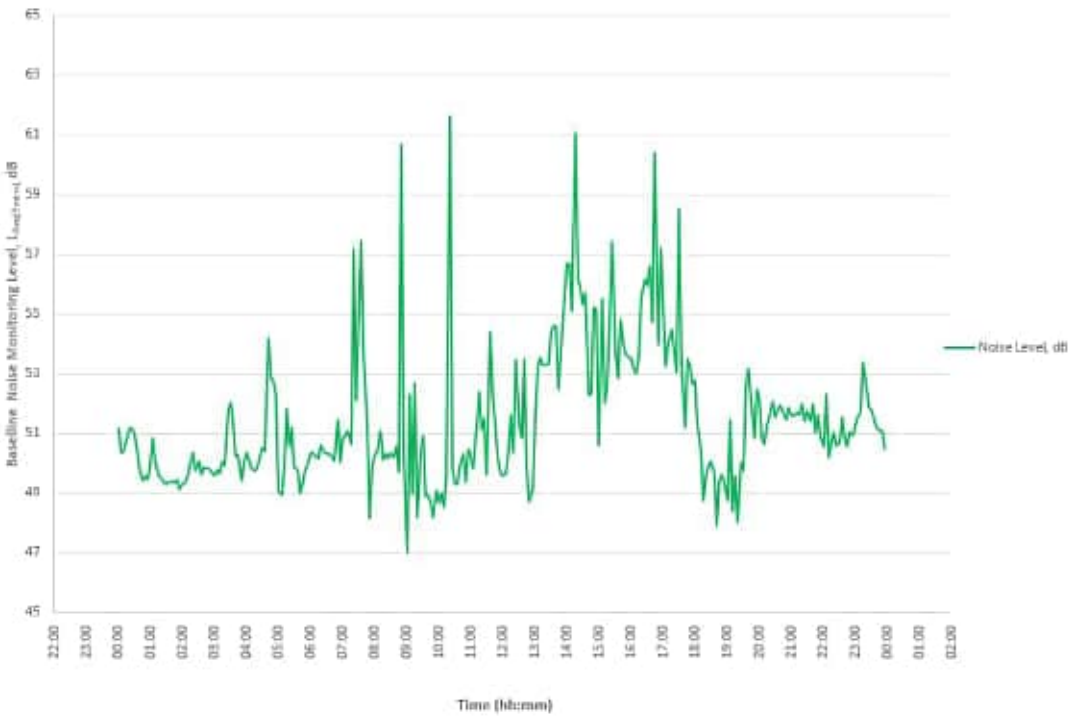
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 11 December 2021 (Day 3) at N6



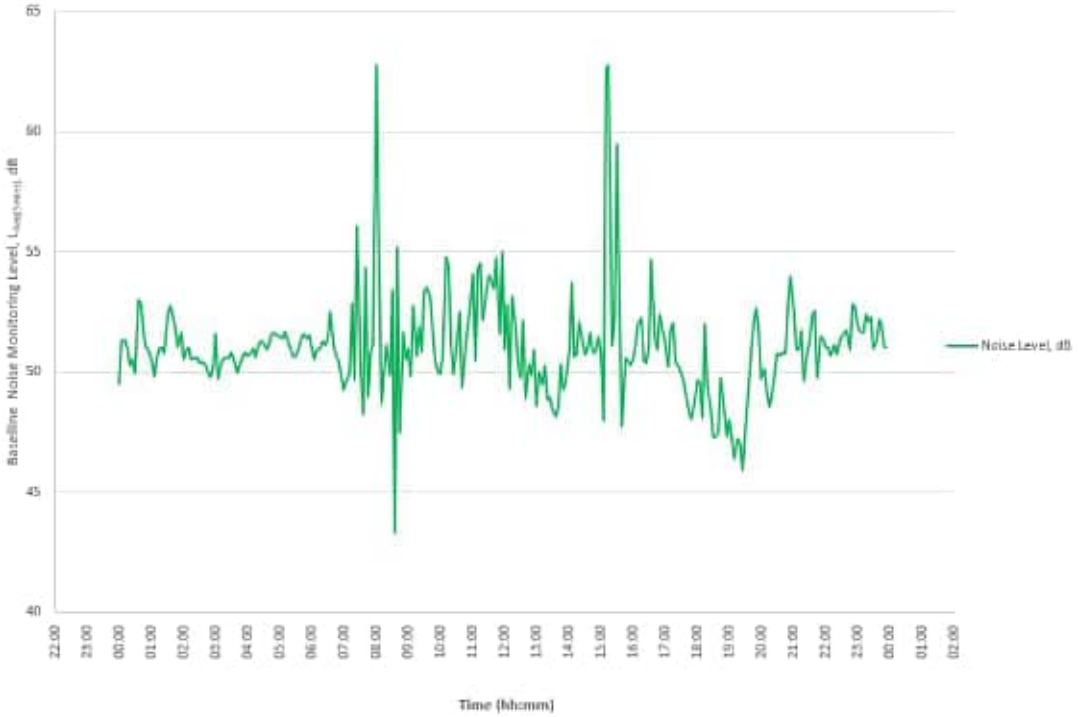
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 12 December 2021 (Day 4) at N6



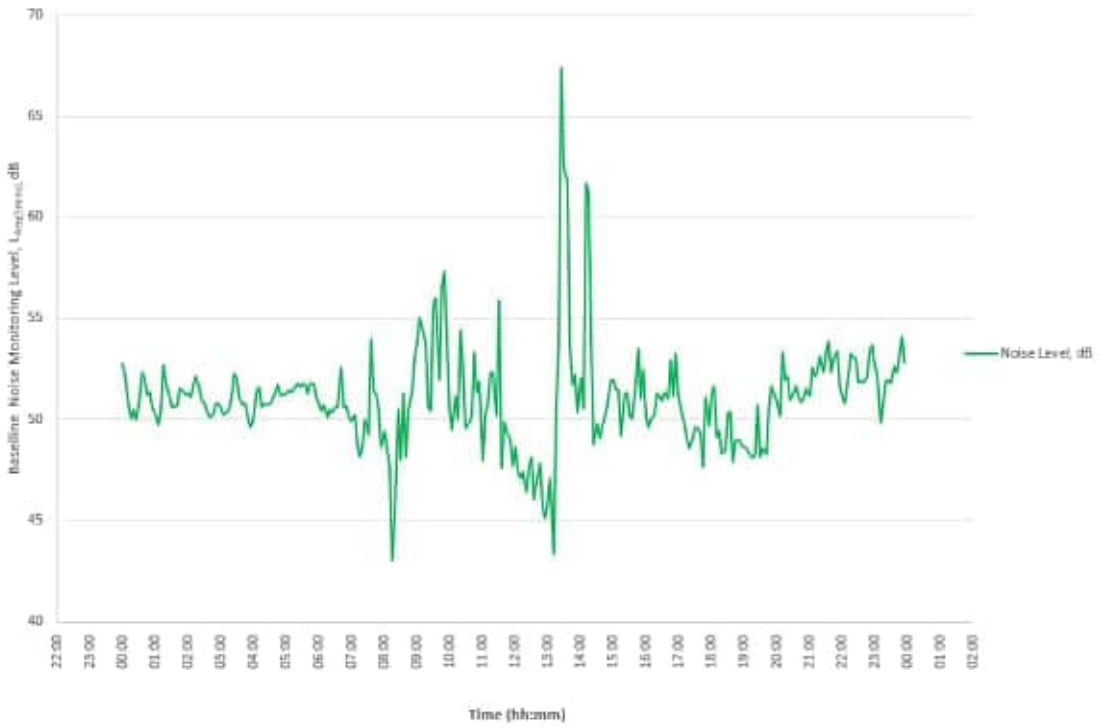
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 13 December 2021 (Day 5) at N6



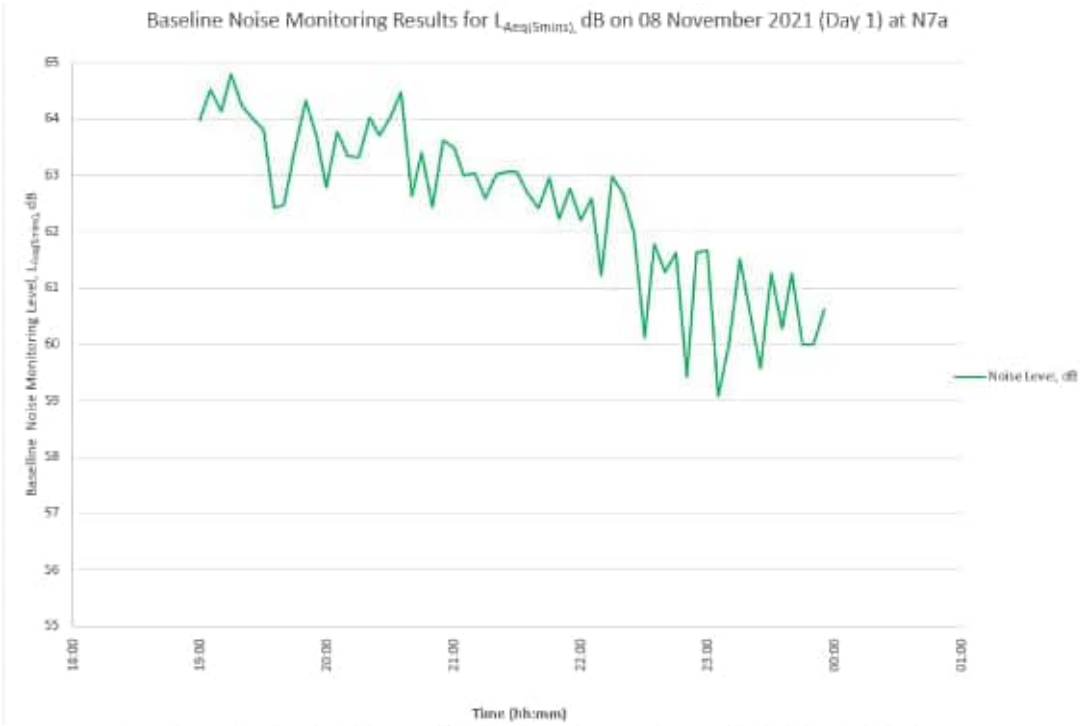
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 14 December 2021 (Day 6) at N6

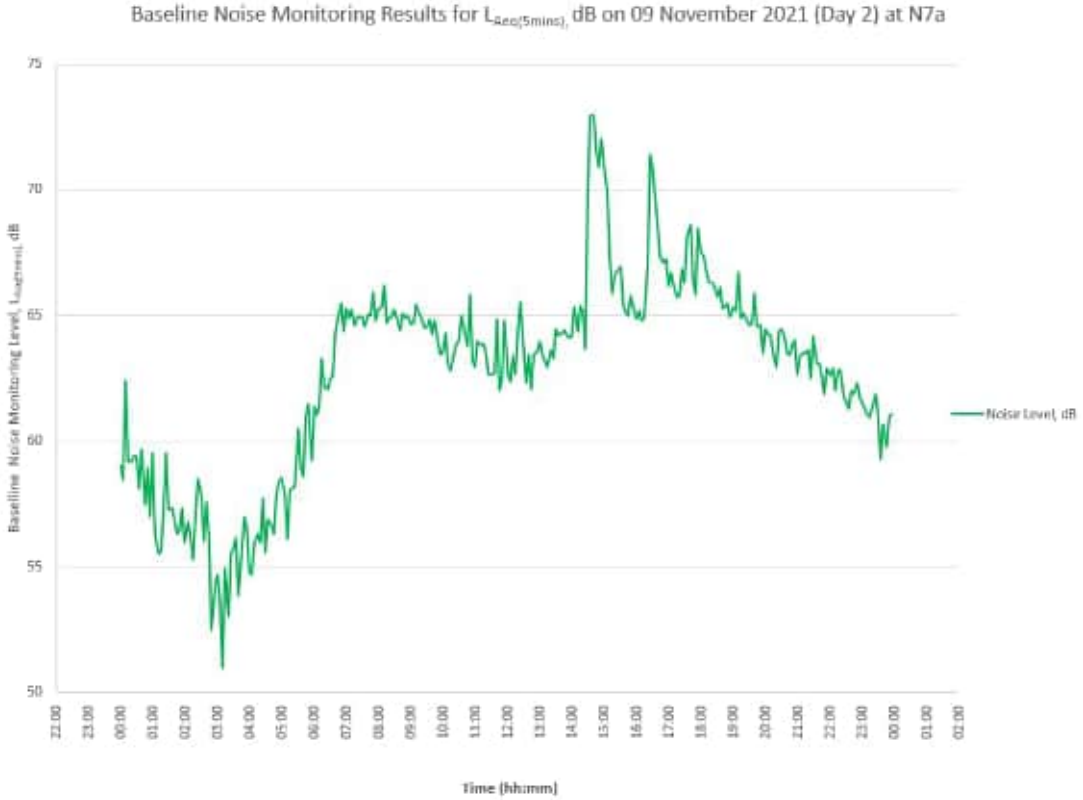


Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 15 December 2021 (Day 7) at N6

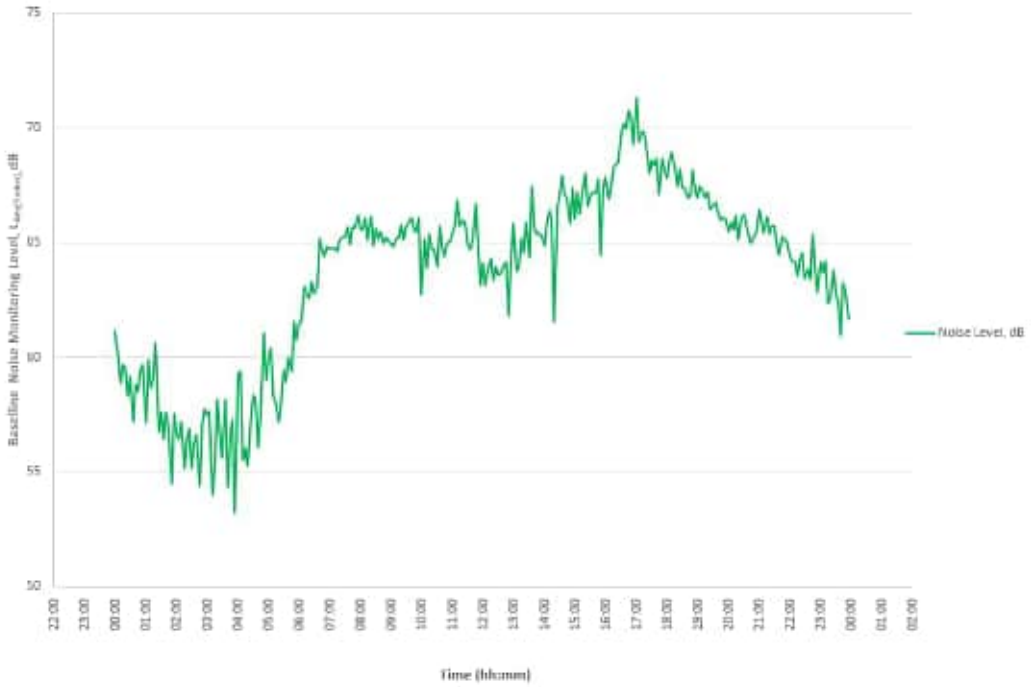


Daily Monitoring Data at N7a – HDB Block 632A, Senja Road (Ground Level)

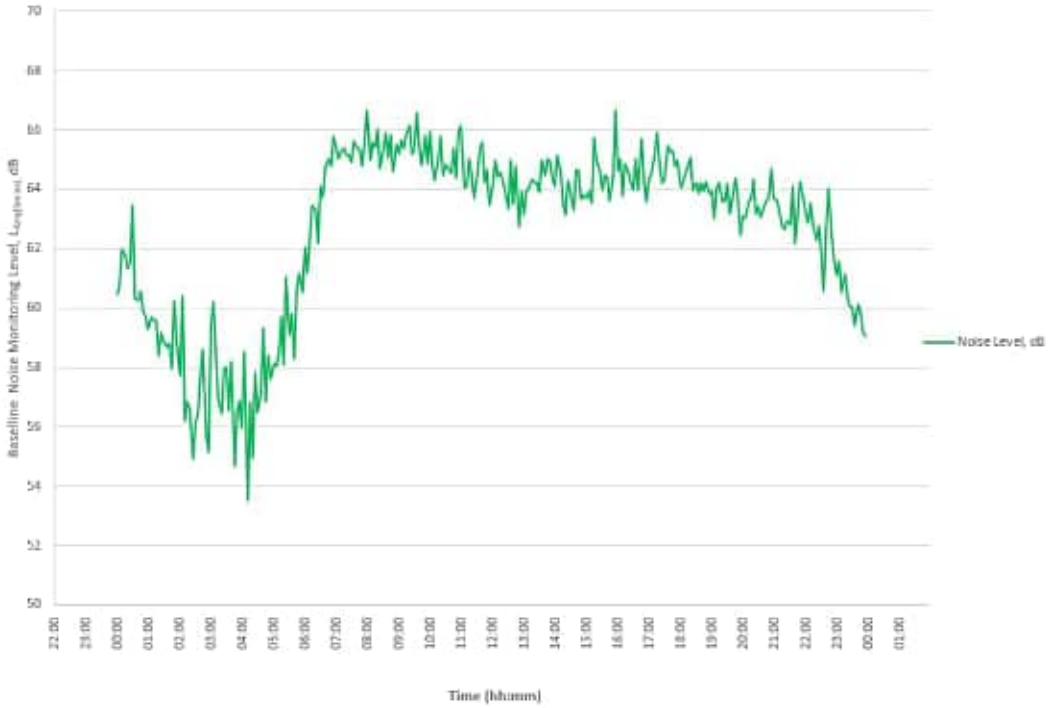




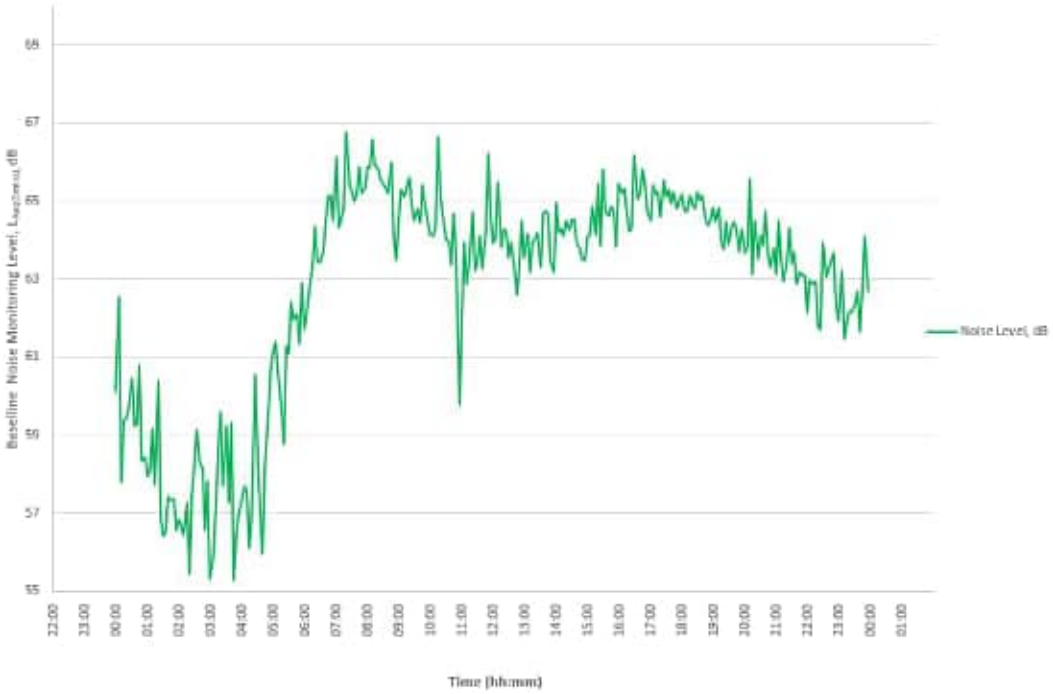
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$ dB on 10 November 2021 (Day 3) at N7a



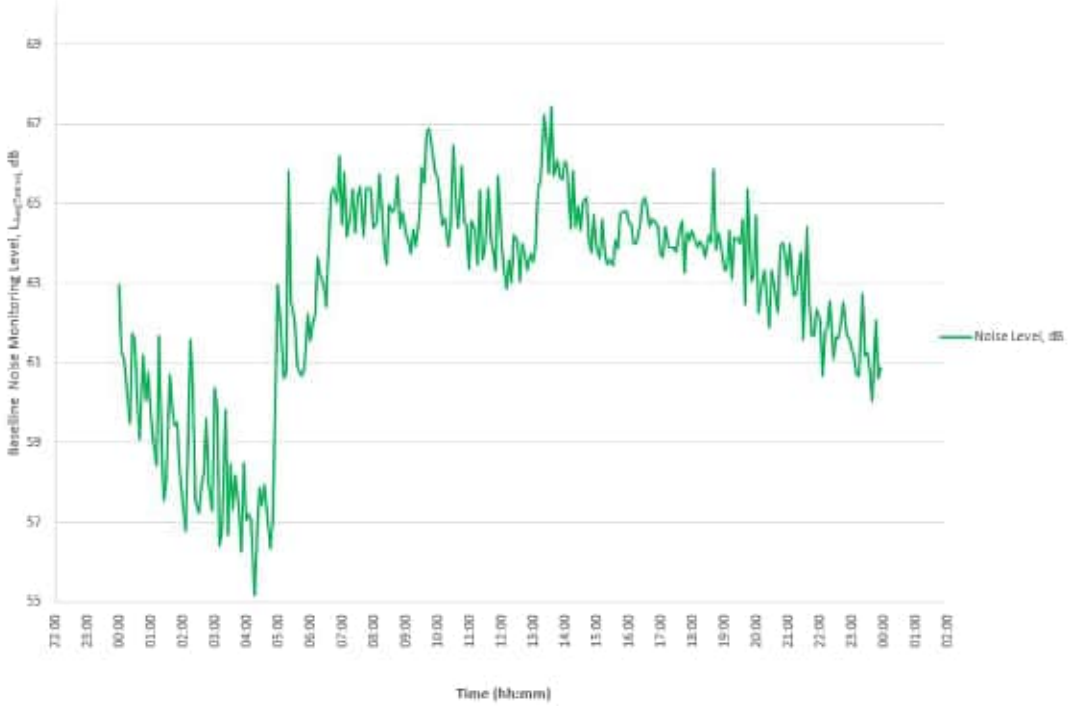
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$ dB on 11 November 2021 (Day 4) at N7a



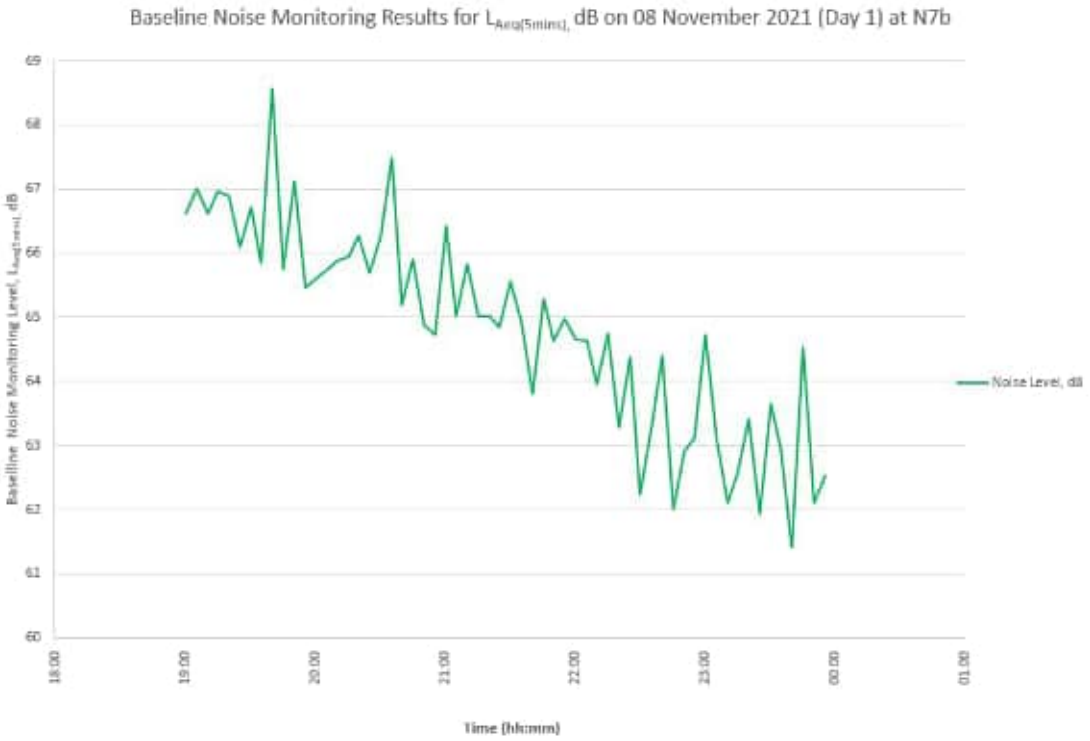
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 12 November 2021 (Day 5) at N7a

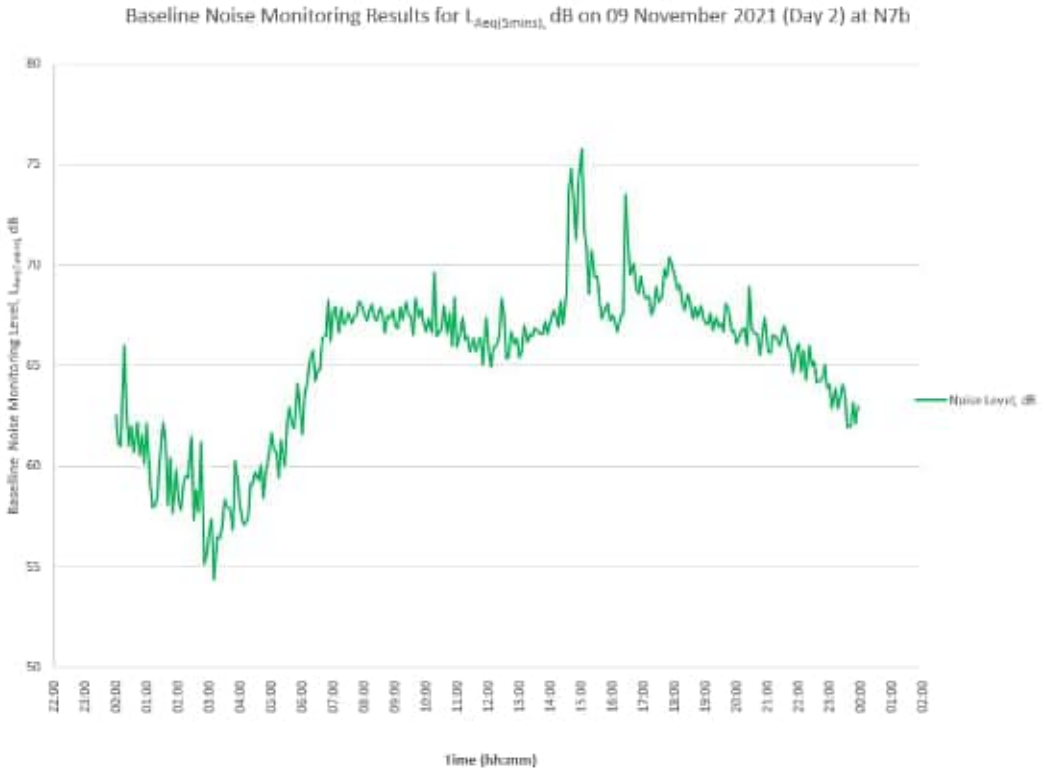


Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 13 November 2021 (Day 6) at N7a

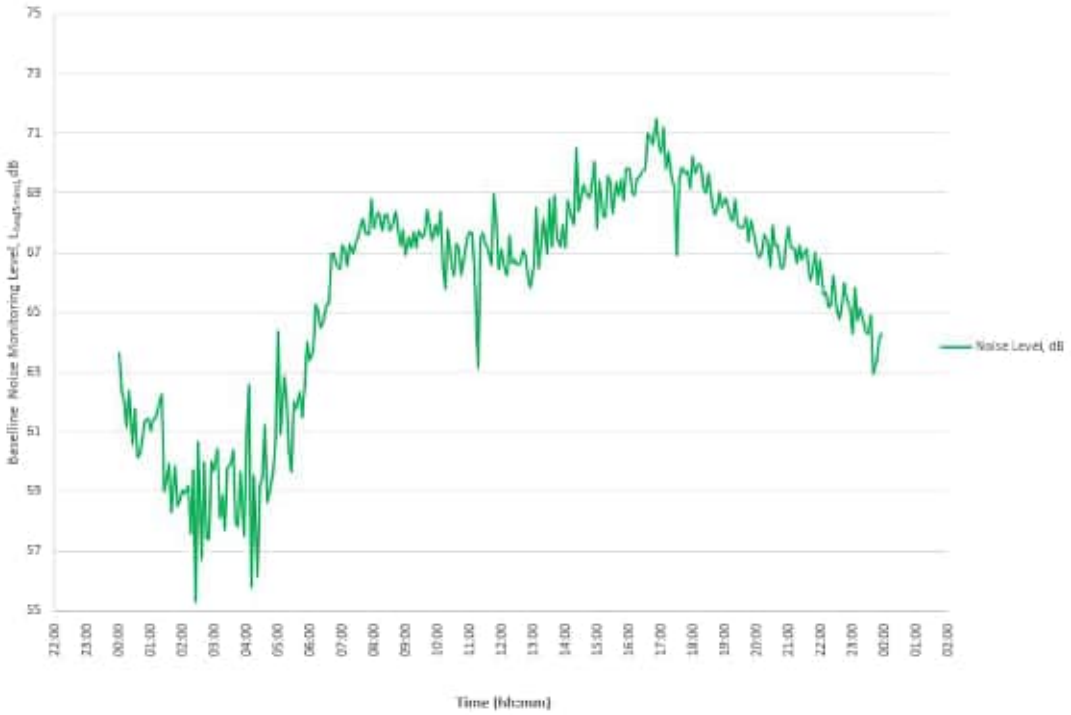


Daily Monitoring Data at N7b – HDB Block 632A, Senja Road (Level 5 staircase area)

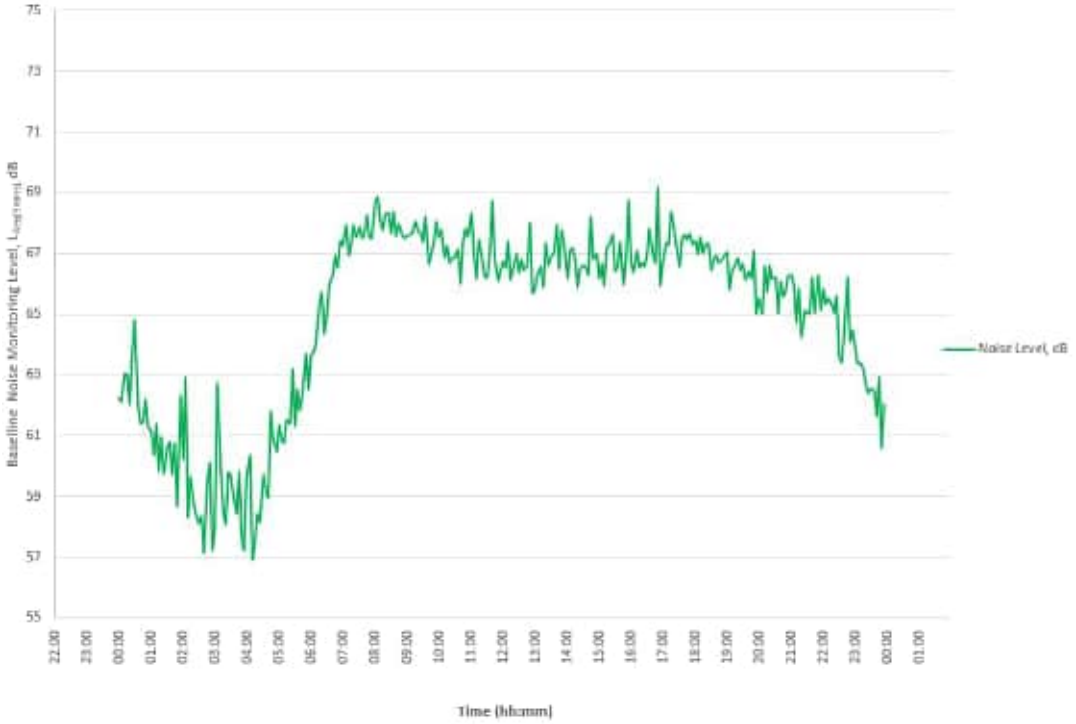




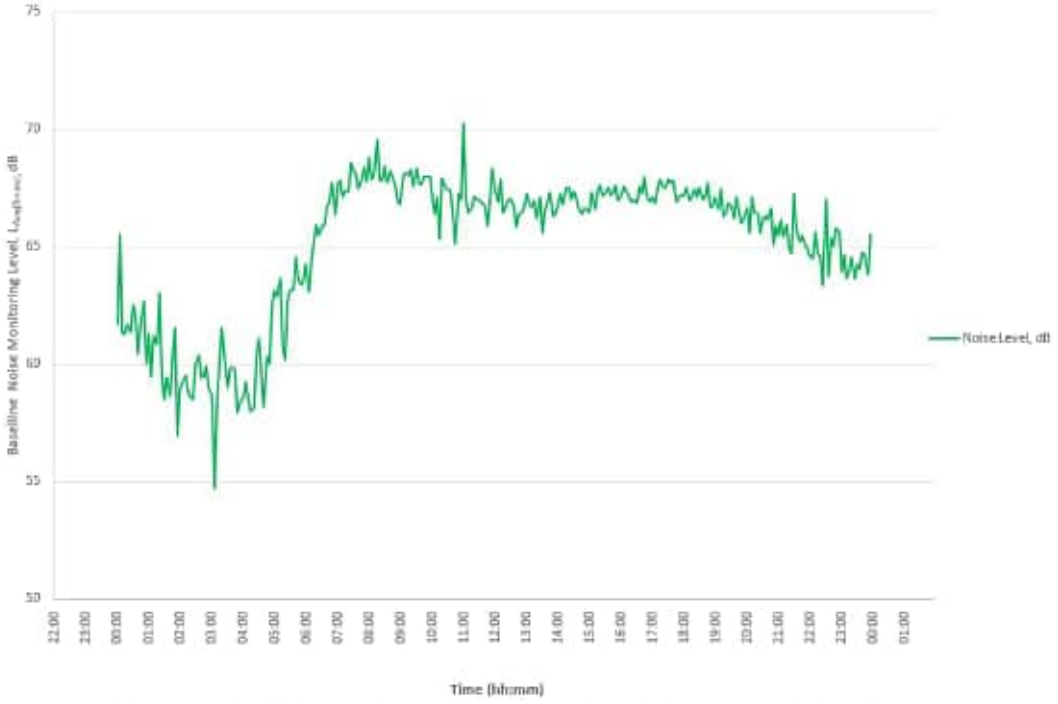
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 10 November 2021 (Day 3) at N7b



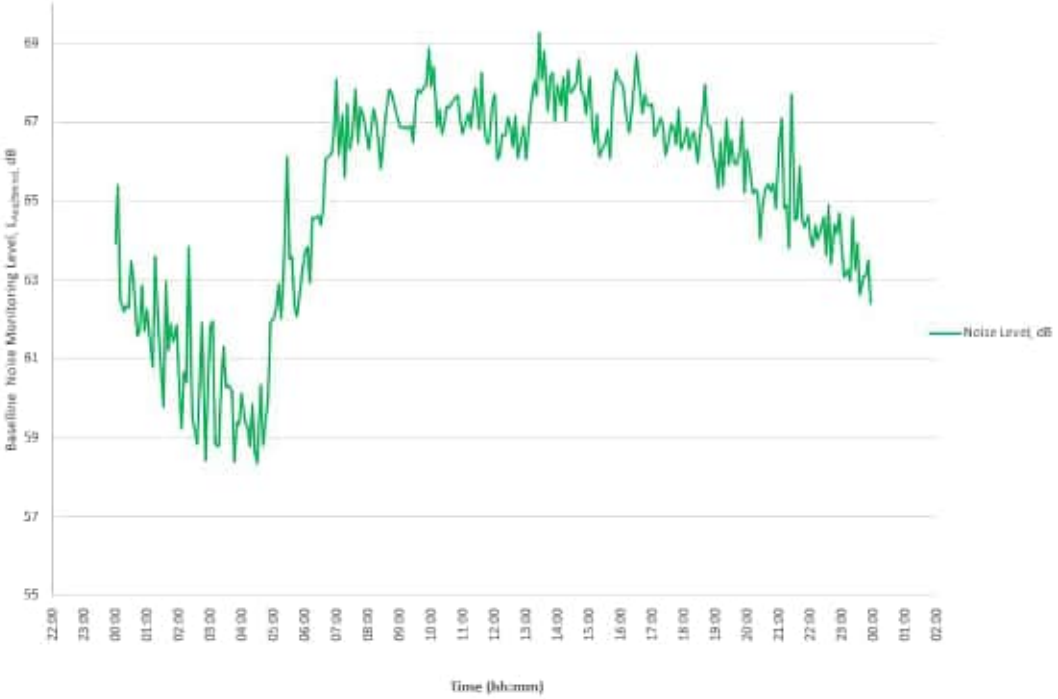
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 11 November 2021 (Day 4) at N7b



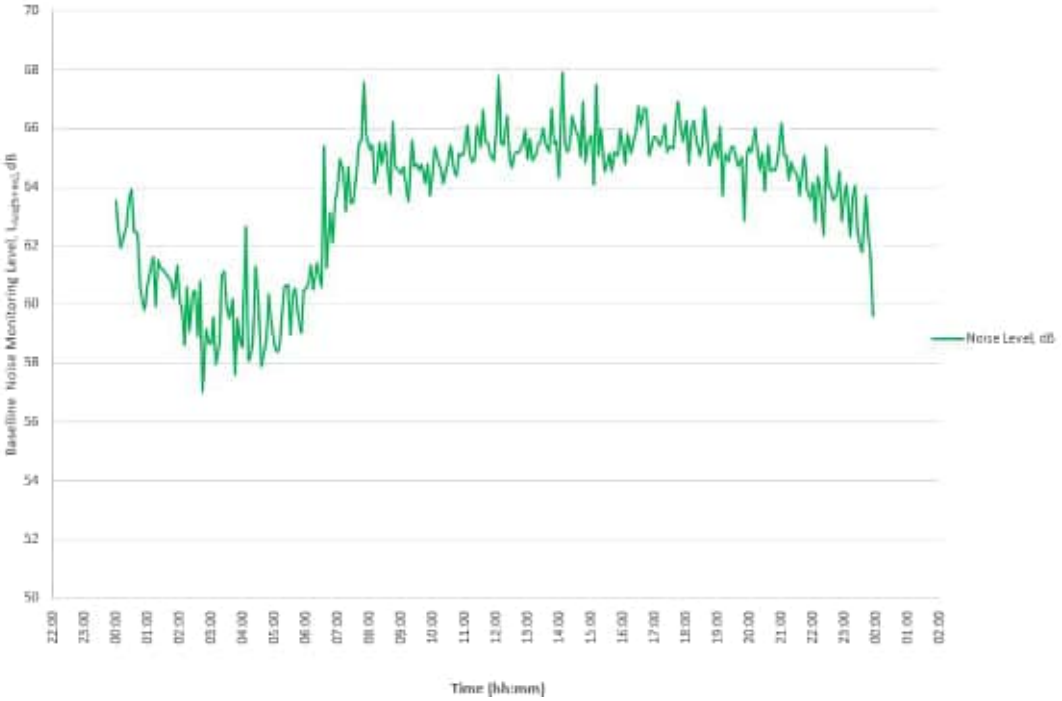
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 12 November 2021 (Day 5) at N7b



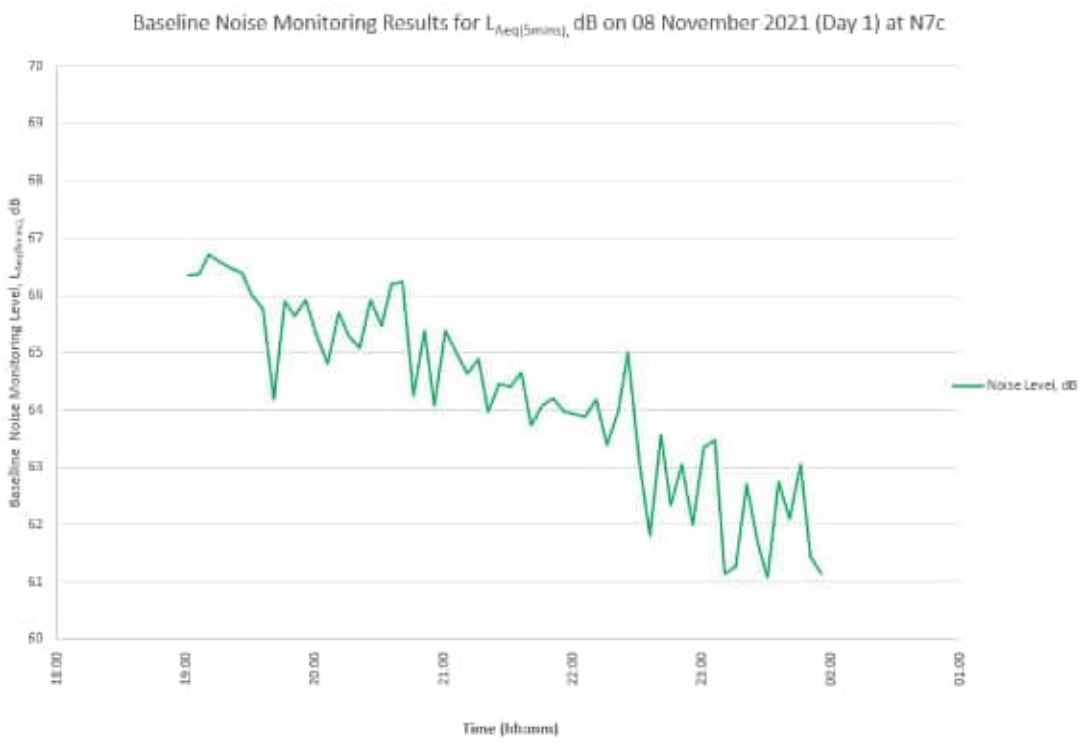
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 13 November 2021 (Day 6) at N7b



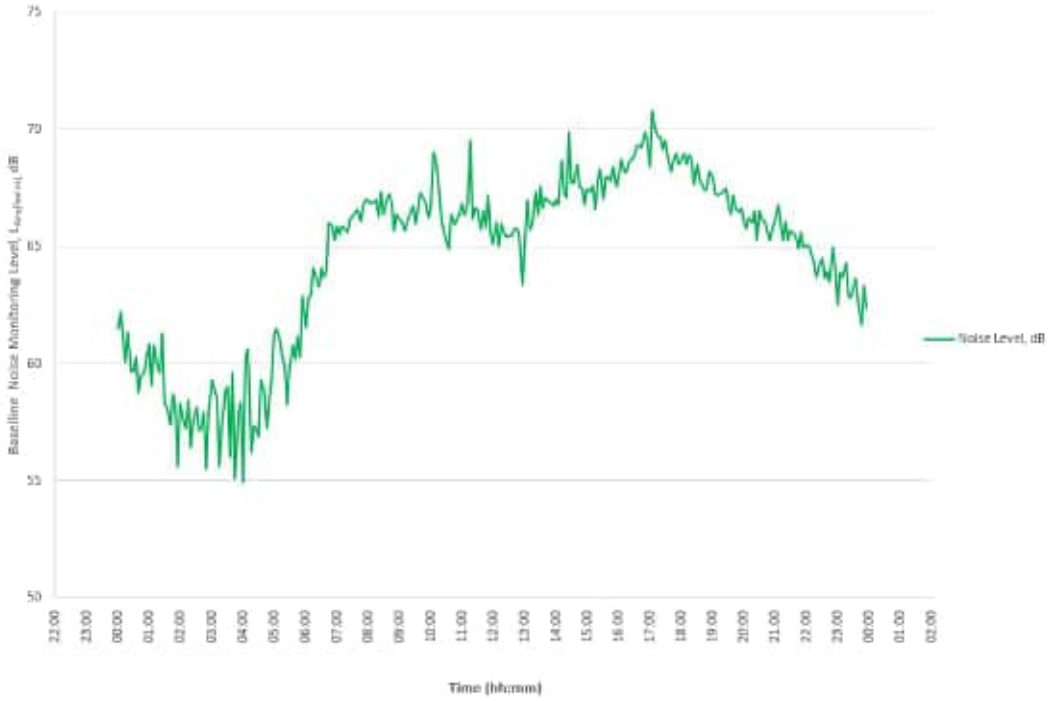
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 14 November 2021 (Day 7) at N7b



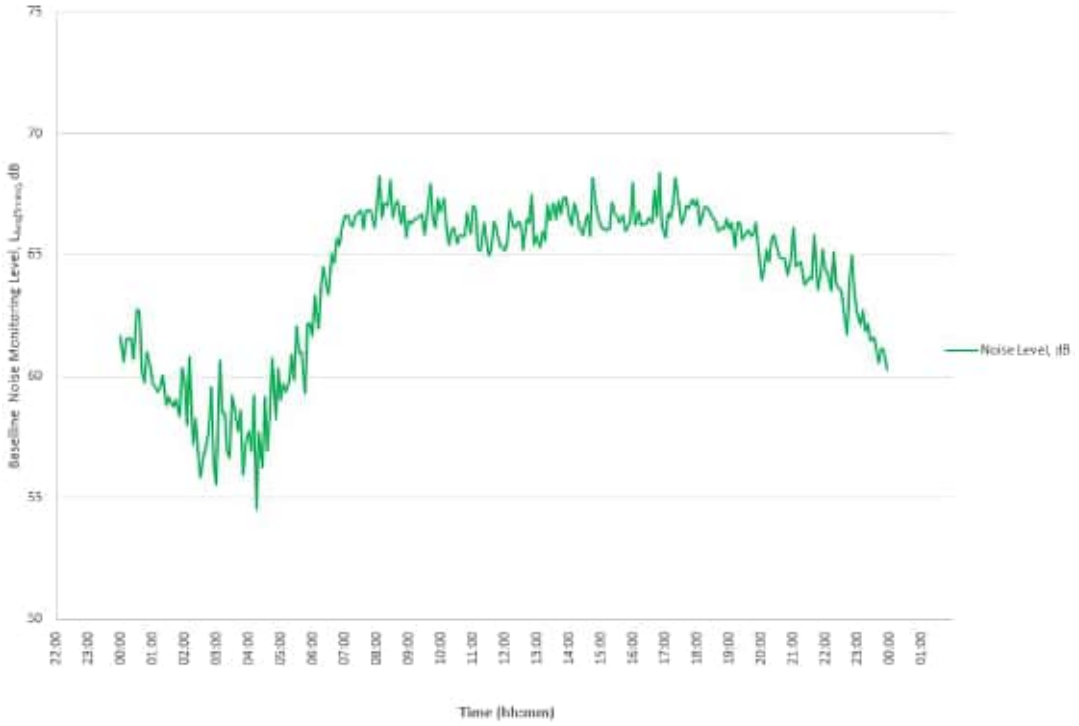
Daily Monitoring Data at N7c – HDB Block 632A, Senja Road (Rooftop area)



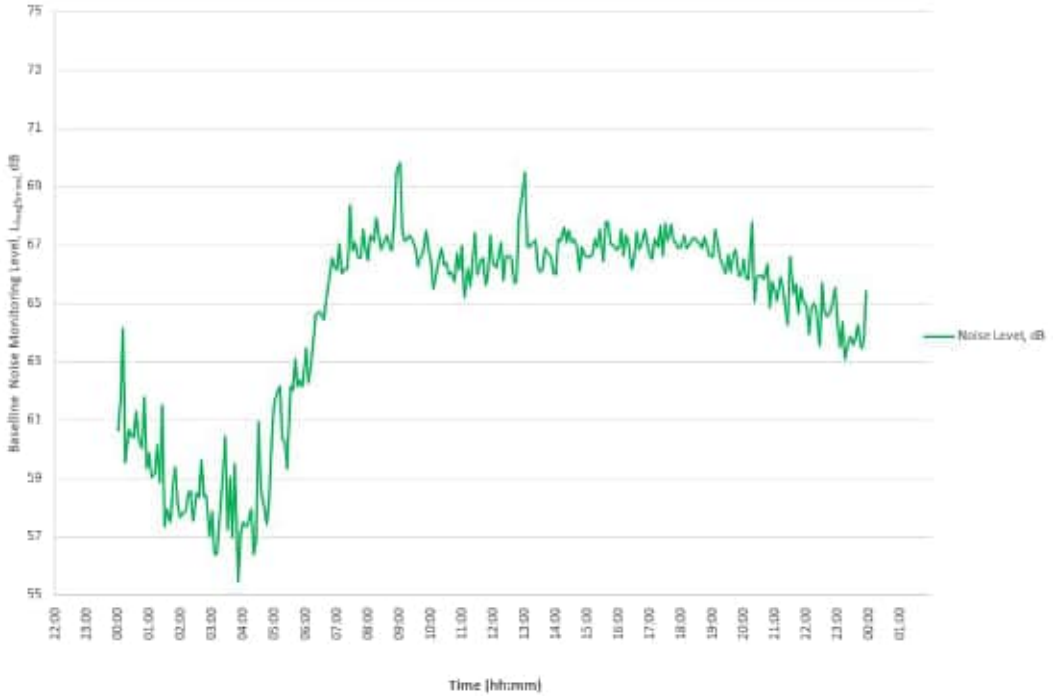
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 10 November 2021 (Day 3) at N7c



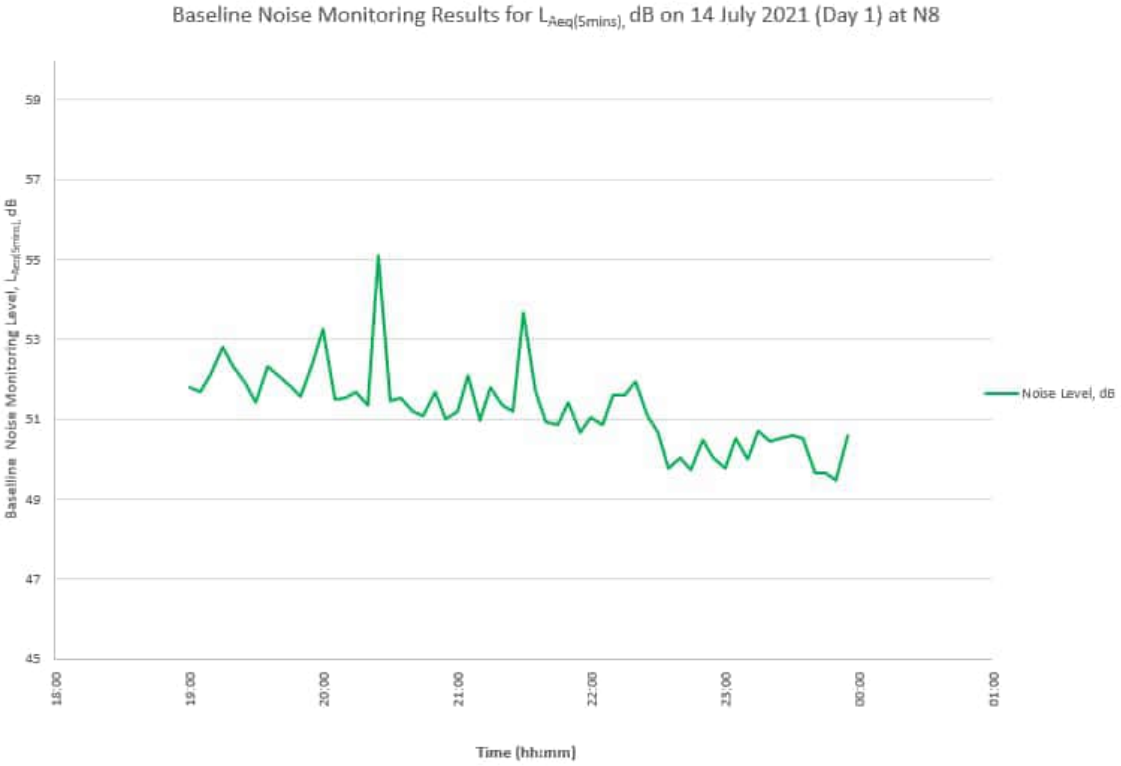
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 11 November 2021 (Day 4) at N7c

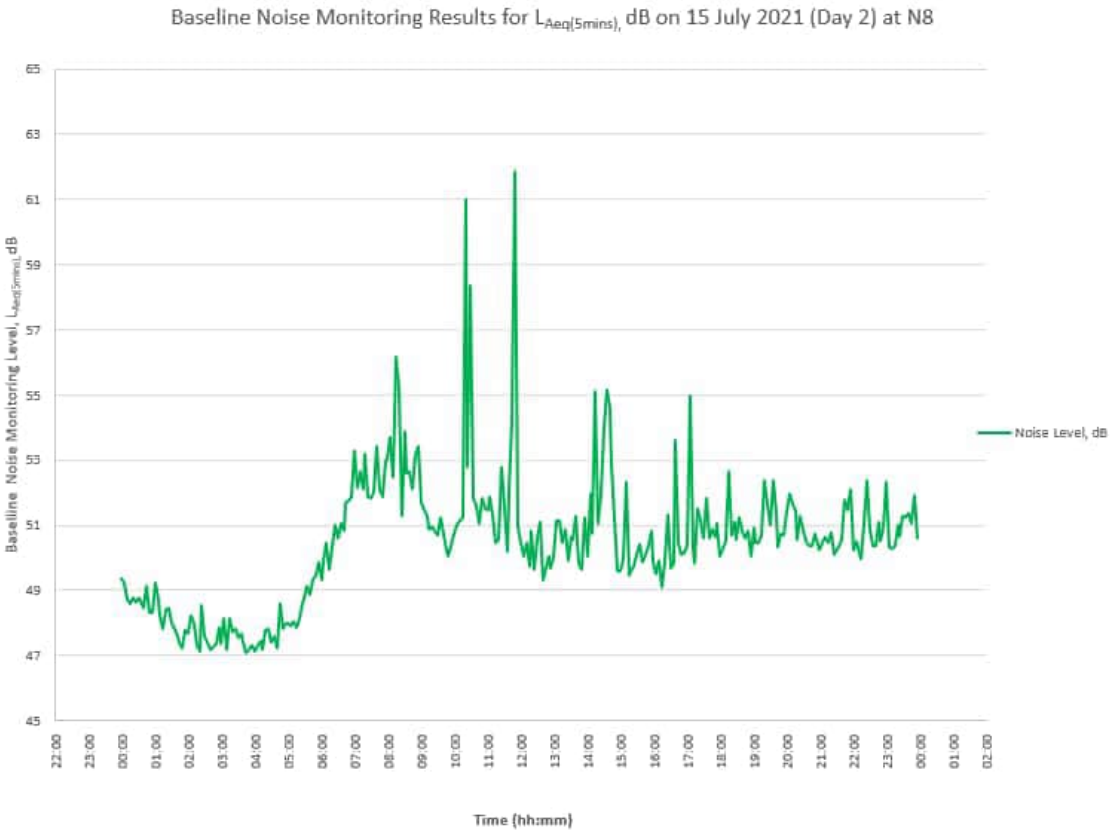


Baseline Noise Monitoring Results for $L_{Aeq(5min)}$, dB on 12 November 2021 (Day 5) at N7c

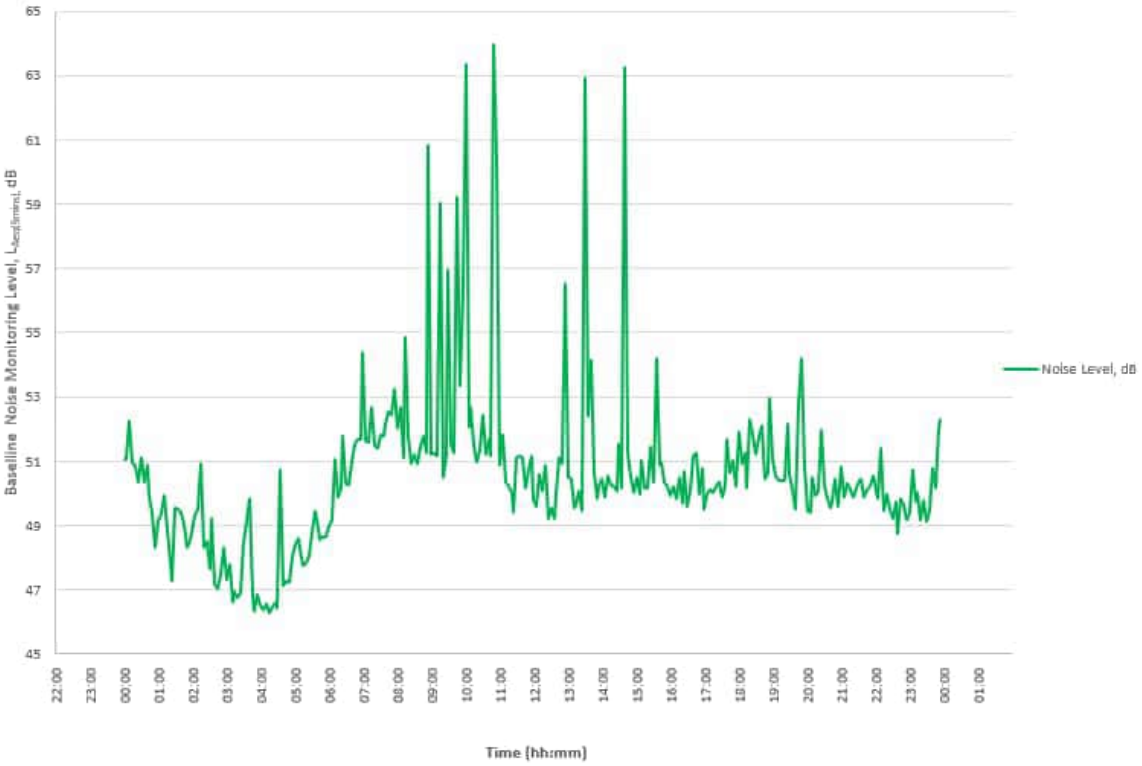


Daily Monitoring Data at N8 – Near Teck Whye Secondary School, facing Pangsua Canal

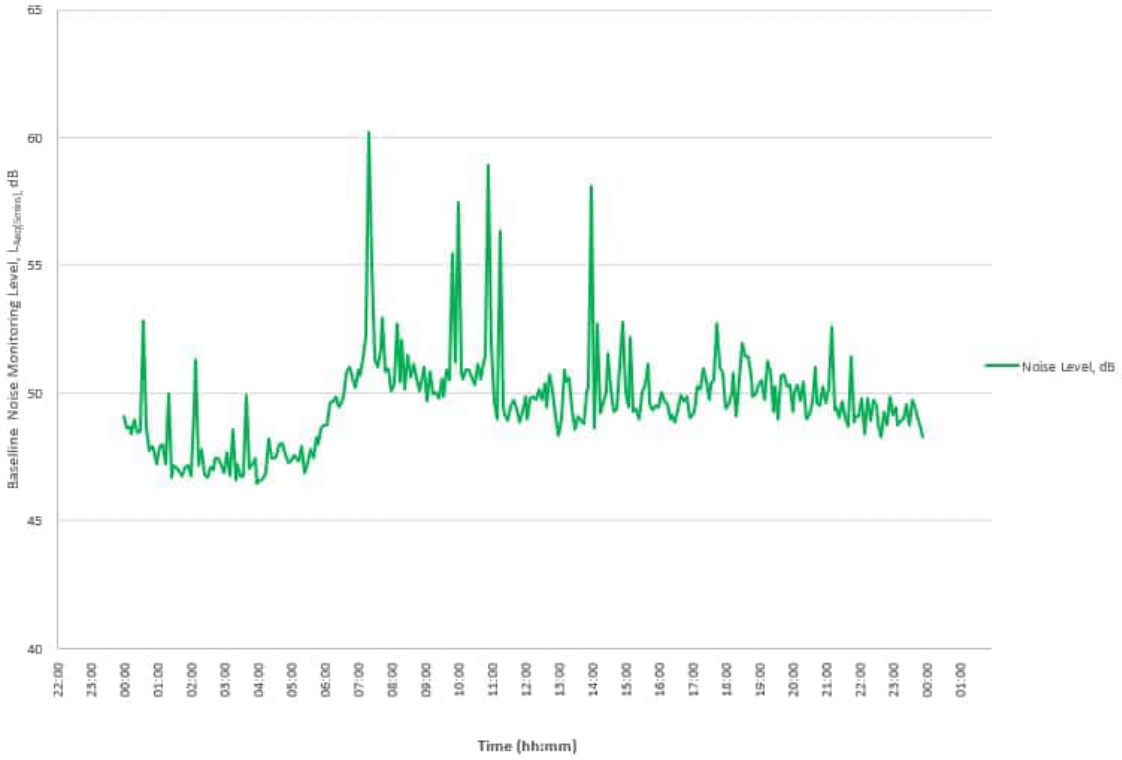




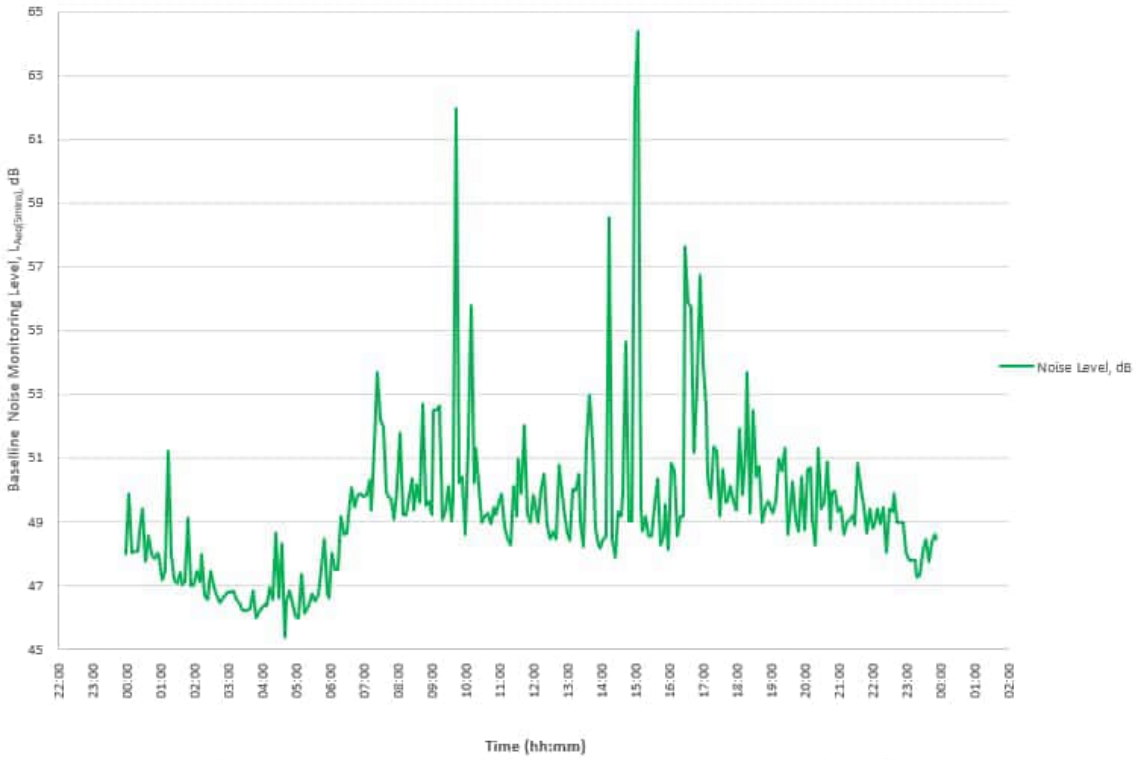
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 16 July 2021 (Day 3) at N8



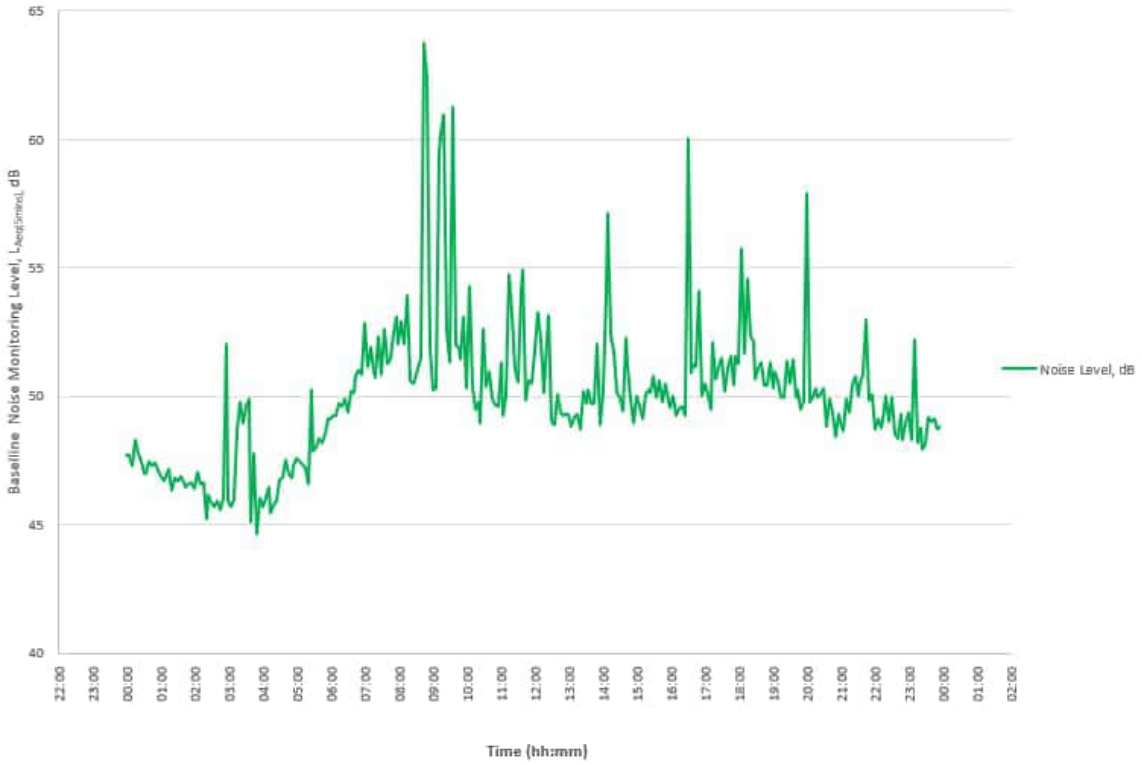
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 17 July 2021 (Day 4) at N8



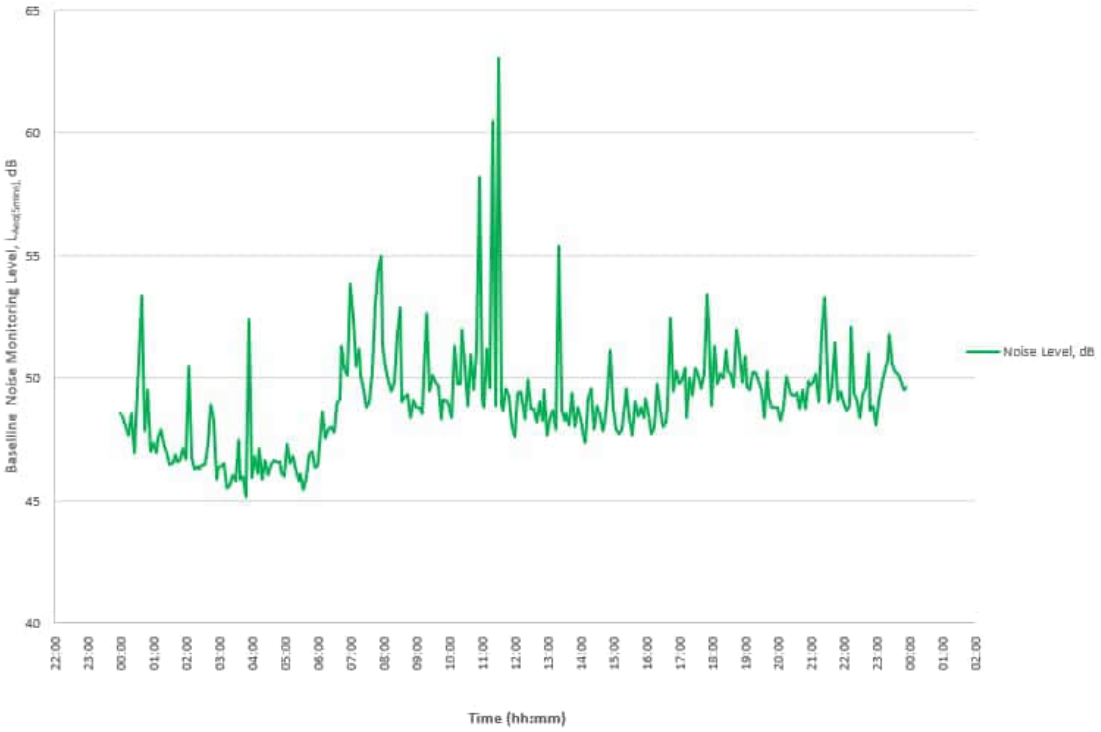
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 18 July 2021 (Day 5) at N8



Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 19 July 2021 (Day 6) at N8

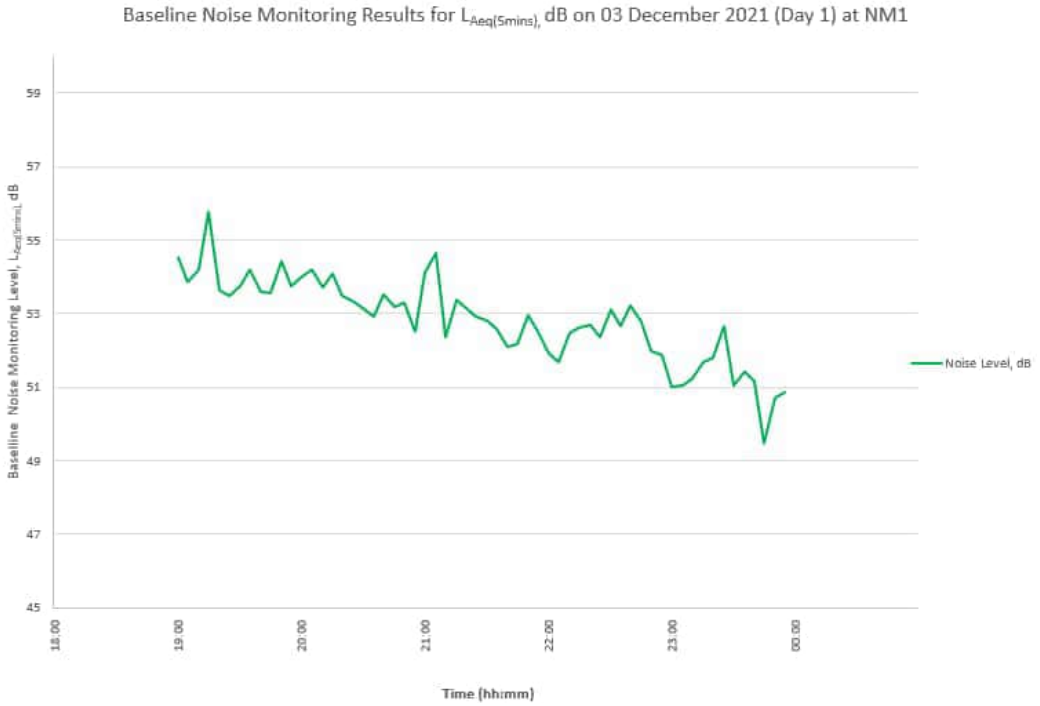


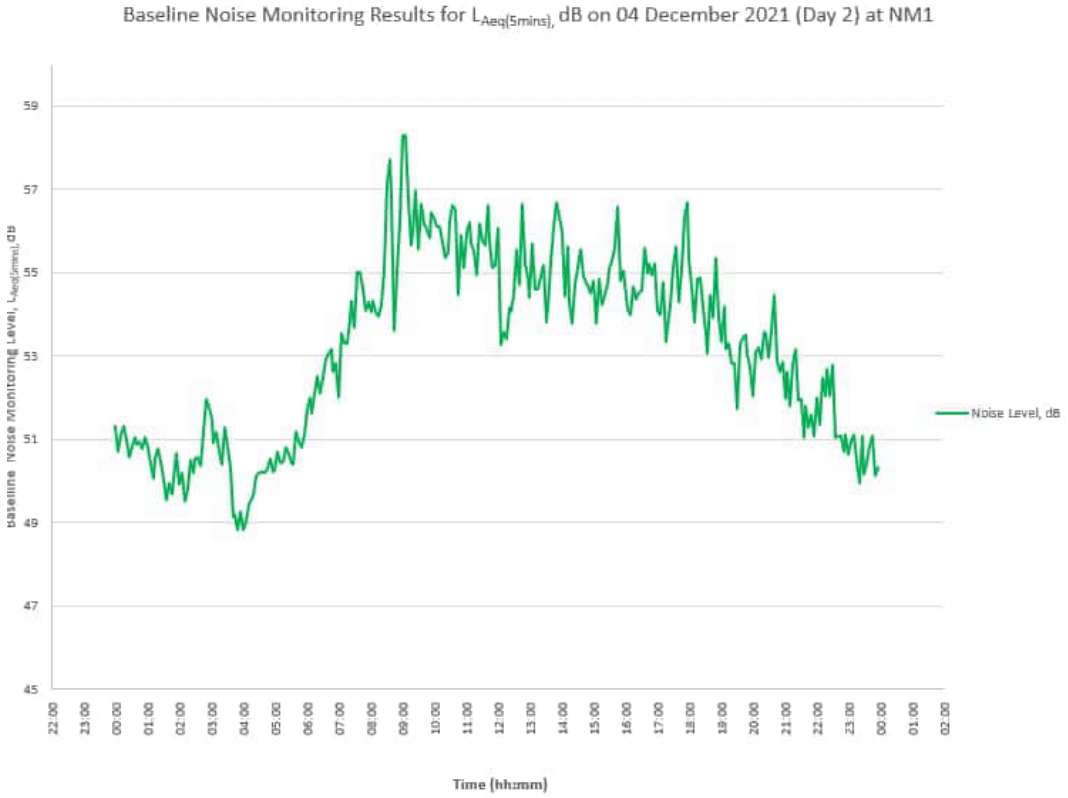
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 20 July 2021 (Day 7) at N8



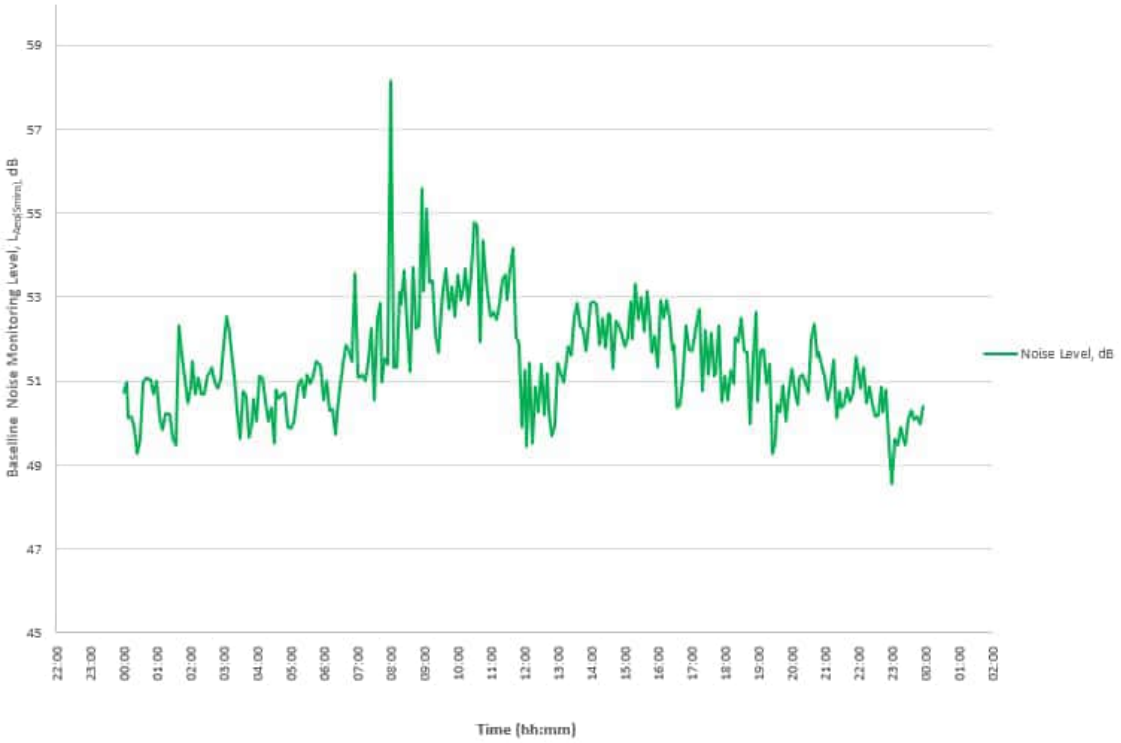
Daily Monitoring Data at proposed potential future infrastructure

Daily Monitoring Data at NM1 – Along Rail Corridor near Sungei Kadut Avenue

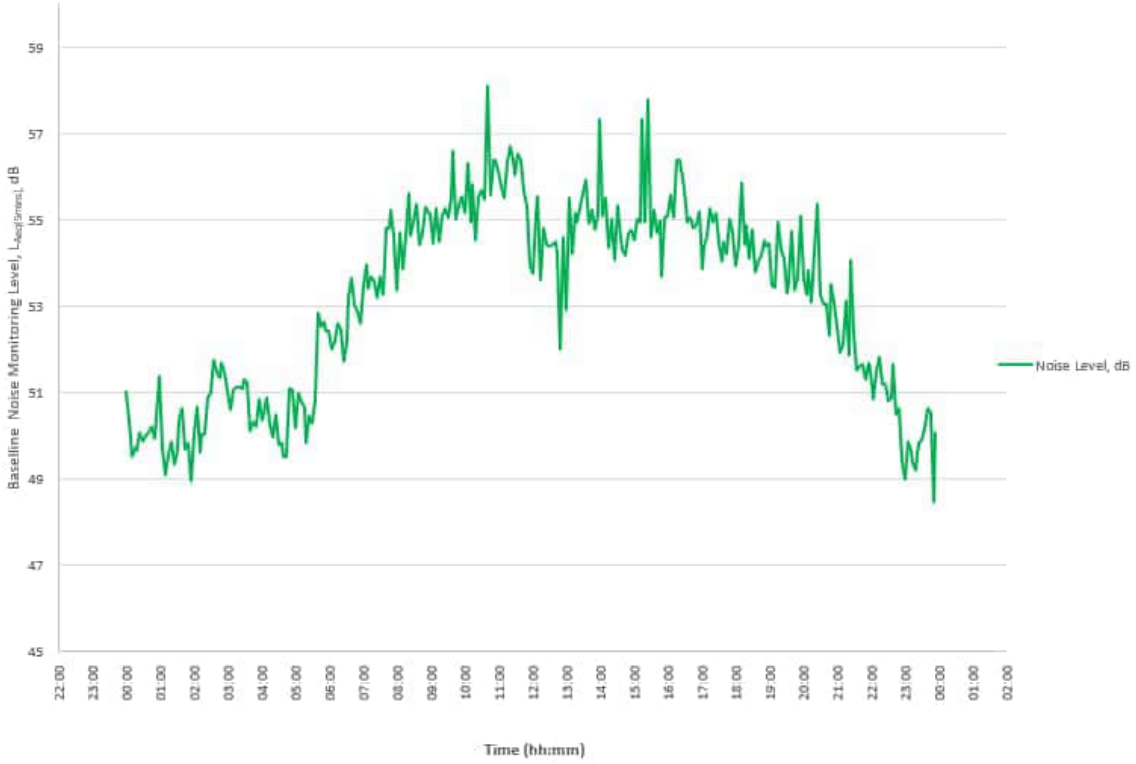




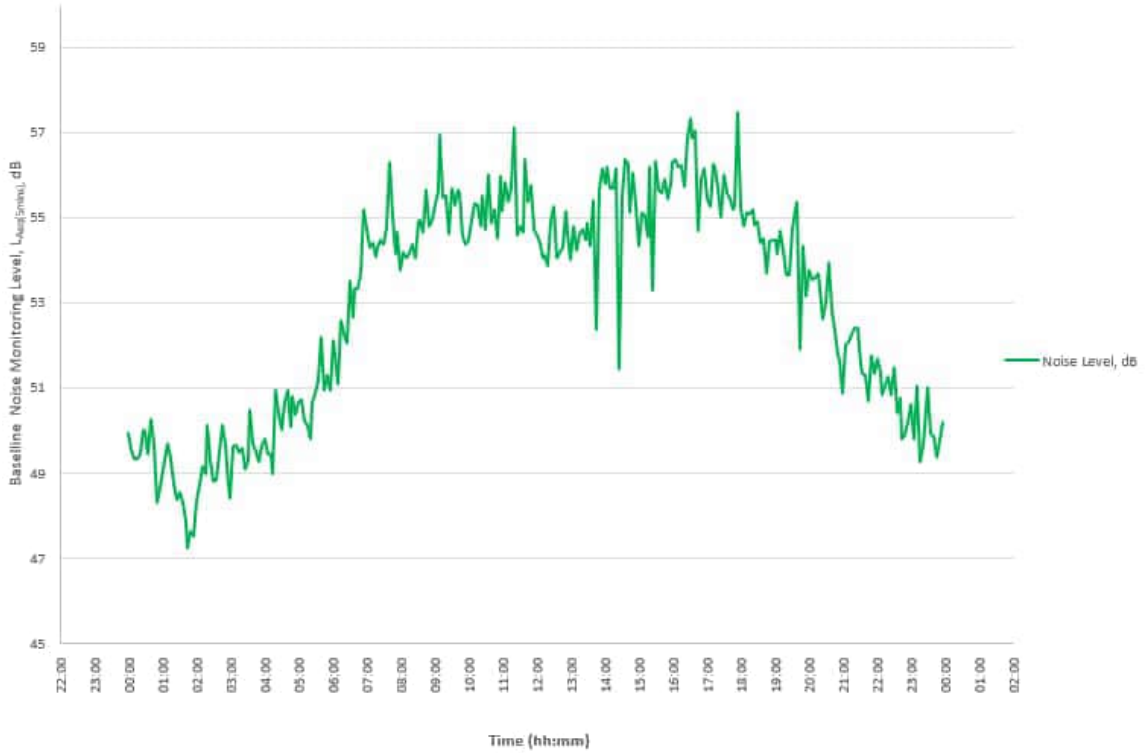
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 05 December 2021 (Day 3) at NM1



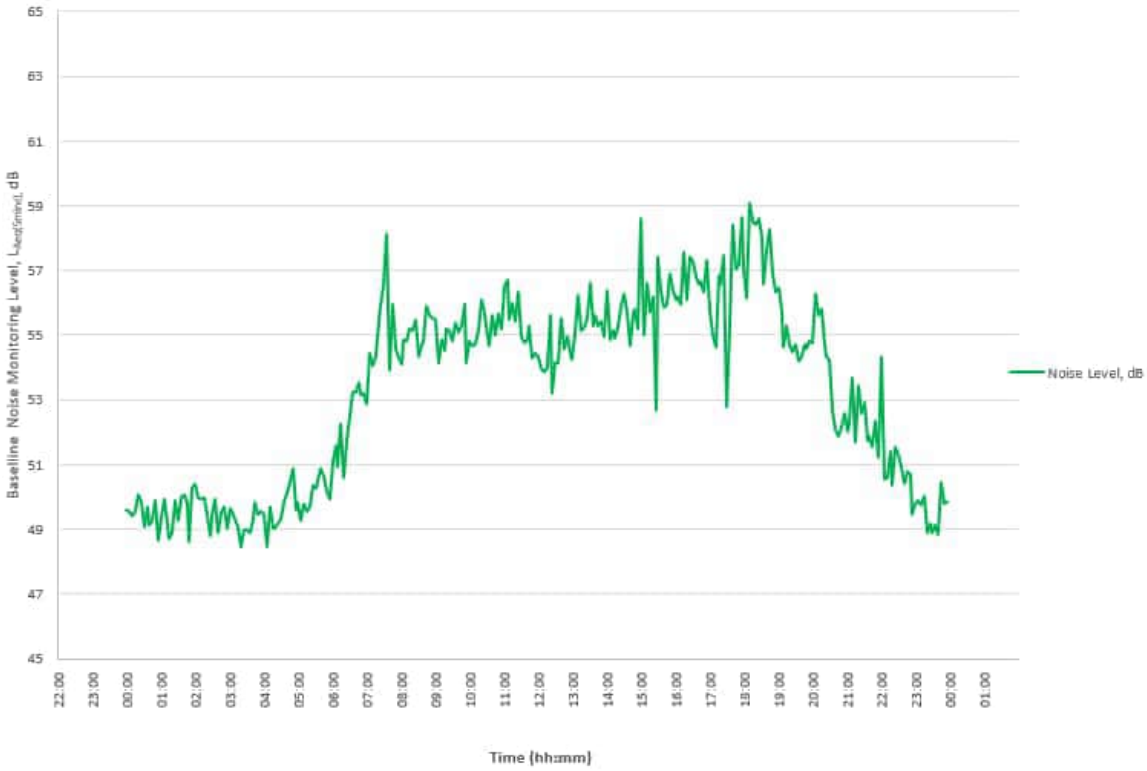
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 06 December 2021 (Day 4) at NM1



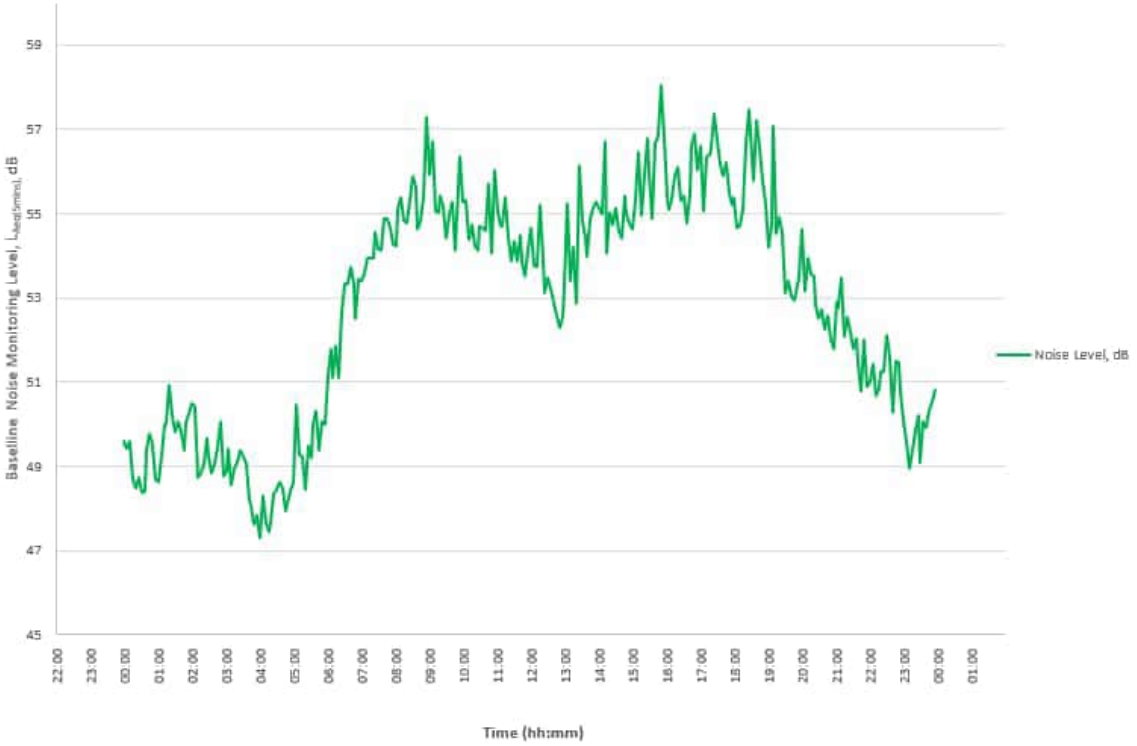
Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 07 December 2021 (Day 5) at NM1



Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 08 December 2021 (Day 6) at NM1



Baseline Noise Monitoring Results for $L_{Aeq(5mins)}$, dB on 09 December 2021 (Day 7) at NM1



Annex B

GeoNoise
Acoustical Consulting
Sound Instrumentation and Calculation Software

Certificate of Calibration

Certificate No.:Cal 010-0221-0340 Order No: 100221-1

Customer: TME Systems PTE.,LTD
1 Common Wealth Lane # 0706
Commonweath Singapore 149544

Date of calibration: 2021 02 10
Date of issue: 2021-02-10

Instrument Calibrated: Sound Level Meter
Manufacturer: Norsonic
Type: Nor 131
Serial no: 1313950

Calibration and verification performed:
Acoustical levels are stated relative to 20µPa. Other dB levels are relative values.
The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k, which with the reported effective degree of freedom corresponds to coverage probability of approximately 95%. The standard uncertainty of measurement has been determined in accordance with EA publication EA-4/02
The sound level meter instrument submitted for periodic testing following the periodic tests of IEC 61672-3.
Preconditinning:
The equipment was preconditioned for more than 12 hours at the specified calibration temperature and humidity.
Instruments and Program:
A complete list of instruments, hardware and software, that has been used for this calibration is separately available from the calibration laboratory.

Equipment standards used:
- Sound measuring equipment calibration unit 4831 S/N31083
- Digital multimeter Keysight S/N HP34401A
  Ultra low distortion function generator stanford SRS DS360 S/N123625
- Acoustic calibrator class 0 Nor1253 S/N32941
- Referent microphone condenser G.R.A.S. 40AU-1 S/N 309231
- System software Nor1504A

Traceability
The measured values are traceable to following the ISO/IEC 17025 laboratories:
Sound Pressure Level: NCL, Norway
Reference microphone: NCL, Norway
Voltage: TPA,Thailand
Frequency: TPA, Thailand

Registration number 0115549000205
6/54-56 Pracharat 1 Rd, Bang Sue Bangkok 10220 Thailand
Tel (+66) 02 1214589 Fax (+66) 02 12[illegible] Email: contact@geonoise.co.th
www.geonoise.co.th

Certificate No.:Cal 010-0221-0340 Order No: 100221-1

Environmental conditions:	Pressure:	Temperature:	Relative humidity:
Reference conditions:	101.325 kPa	23.0 °C	50 %RH
Measurement conditions:	100.46 ± 0.05 kPa	23.1 ± 0.6 °C	51.8 ± 3.0 %RH

1. Absolute sensitivity

Reference Acoustic Signal (dB)	Measured value (dB)		Deviated value (dB)	Uncertainty (dB)	Tolerance limit (dB)
	Before adjust	After adjust			
94.0	93.9	94.0	0.0	±0.2	±1.4

2. Self-generated noise

Frequency Weighting	Measured value (dB)	Uncertainty (dB)
A-Weighting	15.0	±0.2
C-Weighting	20.0	±0.2
Z-Weighting	25.0	±0.2

3. Frequency weightings: A-Network Reference acoustic signal 92 dB

Frequency (Hz)	Measured value (dB)	Deviated value (dB)	Uncertainty (dB)	Tolerance limit (dB)
63.1	92.0	0.0	±0.2	±2.5
125.9	92.0	0.0	±0.2	±2.0
251.2	92.0	0.0	±0.2	±1.9
501.2	92.0	0.0	±0.2	±1.9
1000.0	92.0	0.0	±0.2	±1.4
1995.3	92.0	0.0	±0.2	±2.6
3981.1	92.0	0.0	±0.2	±3.1
7943.3	92.0	0.0	±0.2	±5.6

Date of calibration : 2021-02-10
Date of issue : 2021-02-10

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Certificate No.:Cal 010-0221-0340 Order No: 200771-1

4. Frequency weightings: C-Network Reference acoustic signal 92 dB

Frequency (Hz)	Measured value (dB)	Deviated value (dB)	Uncertainty (dB)	Tolerance limit (dB)
63.1	91.9	0.1	±0.2	±2.5
125.9	92.0	0.0	±0.2	±2.0
251.2	92.0	0.0	±0.2	±1.9
501.2	92.0	0.0	±0.2	±1.9
1000.0	92.0	0.0	±0.2	±1.4
1995.3	92.0	0.0	±0.2	±2.6
3981.1	91.9	-0.1	±0.2	±3.1
7943.3	92.0	0.0	±0.2	±5.6
15848.9	92.0	0.0	±0.2	±5.6

5. Frequency weightings: Z-Network Reference acoustic signal 92 dB

Frequency (Hz)	Measured value (dB)	Deviated value (dB)	Uncertainty (dB)	Tolerance limit (dB)
63.1	92.0	0.0	±0.2	±2.5
125.9	92.0	0.0	±0.2	±2.0
251.2	92.0	0.0	±0.2	±1.9
501.2	92.0	0.0	±0.2	±1.9
1000.0	92.0	0.0	±0.2	±1.4
1995.3	92.0	0.0	±0.2	±2.6
3981.1	92.0	0.0	±0.2	±3.1
7943.3	92.0	0.0	±0.2	±5.6
15848.9	92.0	0.0	±0.2	±5.6

6. Time weightings at 1kHz

Time weightings	Measured value (dB)	Deviated value (dB)	Uncertainty (dB)	Tolerance limit (dB)
Fast	114.0	0.0	±0.2	±0.3
Slow	114.0	0.0	±0.2	±0.3
Leq	114.0	0.0	±0.2	±0.3

Date of calibration : 2021-02-10
Date of issue : 2021-02-10

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Certificate No.:Cal 010 0221 0340 Order No: 100221-1

7. Frequency weightings at 1kHz

Frequency weightings	Measured value (dB)	Deviated value (dB)	Uncertainty (dB)	Tolerance limit (dB)
A	114.0	0.0	±0.2	±0.4
C	114.0	0.0	±0.2	±0.4
Z	114.0	0.0	±0.2	±0.4

8. Level linearity on the refence level range

Anticipated Value (dB)	Measured value (dB)	Deviated value (dB)	Uncertainty (dB)	Tolerance limit (dB)
114.0	114.0	0.0	±0.2	±1.4
119.0	118.9	-0.1	±0.2	±1.4
124.0	123.9	-0.1	±0.2	±1.4
129.0	128.9	-0.1	±0.2	±1.4
133.0	132.9	-0.1	±0.2	±1.4
114.0	133.9	-0.1	±0.2	±1.4
109.0	134.9	-0.1	±0.2	±1.4
104.0	135.9	-0.1	±0.2	±1.4
99.0	136.9	-0.1	±0.2	±1.4
94.0	114.0	0.0	±0.2	±1.4
89.0	108.9	-0.1	±0.2	±1.4
84.0	103.9	-0.1	±0.2	±1.4
79.0	98.9	-0.1	±0.2	±1.4
74.0	93.9	-0.1	±0.2	±1.4
69.0	88.9	-0.1	±0.2	±1.4
64.0	83.9	-0.1	±0.2	±1.4
59.0	78.9	-0.1	±0.2	±1.4
54.0	73.9	-0.1	±0.2	±1.4

Date of calibration : 2021-02-10
Date of issue : 2021-02-10

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Certificate No.:Cal 010-0221-0340 Order No: 100221-1

8. Level linearity on the refence level range (continue)

Anticipated Value (dB)	Measured value (dB)	Deviated value (dB)	Uncertainty (dB)	Tolerance limit (dB)
49.0	49.0	0.0	±0.2	±1.4
44.0	44.1	0.1	±0.2	±1.4
39.0	39.5	0.5	±0.2	±1.4
38.0	38.7	0.7	±0.2	±1.4
37.0	38.1	1.1	±0.2	±1.4
36.0	37.4	1.4	±0.2	±1.4
35.0	36.4	1.4	±0.2	±1.4

9. Tone burst response

Time weightings	Tone burst duration,Tb (ms)	Measured value (dB)	Deviated value (dB)	Uncertainty (dB)	Tolerance limit (dB)
Fast	200	134.0	0.0	±0.2	±1.0
	2	117.0	0.0	±0.2	+1.0;-2.5
	0.25	108.0	0.0	±0.2	+1.5;-5.0
Slow	200	127.6	0.0	±0.2	+1.0
	2	108.0	0.0	±0.2	+1.5;-5.0
SEL	200	128.0	0.0	±0.2	±1.0
	2	108.0	0.0	±0.2	+1.0;-2.5
	0.25	99.0	0.0	±0.2	+1.5;-5.0

Date of calibration : 2021-02-10
Date of issue : 2021-02-10

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www.geonoise.co.th

Certificate No.:Cal 010-0221-0340 Order No: 100221-1

10. Peak C sound level

Number of cycles in test signal	Anticipated Value (dB)	Measured value (dB)	Deviated value (dB)	Uncertainty (dB)	Tolerance limit (dB)
Complete cycle	129.4	129.5	0.1	±0.2	±3.0
Positive half cycle	131.4	131.0	0.4	±0.2	±2.0
Negative half cycle	131.4	131.2	0.2	±0.2	±2.0

11. Overload indication

Measured value (dB)		Deviated value (dB)	Uncertainty (dB)	Tolerance limit (dB)
Positive one half cycle	Negative one half cycle			
138.1	137.9	0.2	±0.2	±1.5

The reported expanded uncertainty is based upon a standard uncertainty multiplied by a coverage factor k = 2, providing a level of confidence of approximately 95%

Calibrated By:.....
(Mr. Pakpaom Bunyuen)

Approved By:.....
(Mr. Pitupong Sarapho)

Date of calibration : 2021-02-10
Date of issue : 2021-02-10

Registration number 0415549000289
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Norsonic

Certificate of Calibration

Certificate No.: CAL 022-2021-13919

NORWEGIAN ACCREDITATION CAL 022

Test object:	Manufacturer :	Type :	Serial No.:
Sound level meter :	Norsonic	131	1313980
Microphone :	Norsonic	1228	03138
Preamplifier :	Norsonic	1207	21146
Sound calibrator :	None		

Customer:	TME Systems Pte. Ltd
Address:	1 Commonwealth Lane #07-06 One Commonwealth 149544 Singapore
Order No:	RO2120001

The measurements are performed according to the IEC 61672-3 Ed. 1 (2006).
Acoustical levels are stated relative to 20µPa. Other dB levels are relative values
The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k, which with the reported effective degree of freedom corresponds to coverage probability of approximately 95%. The standard uncertainty of measurement has been determined in accordance with EA publication EA-4/02

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

Indication at the Calibration Check Frequency
The level indication of the sound level meter was controlled using the laboratory reference: WSC7 - Nor1256-125626002. The indicated level was 113,9 dB. Sensitivity: -28,6 dB rel. 1V/Pa. This reading should be used henceforth to set up the sound level meter for field use.

Comment : (None)

Environmental conditions:	Pressure :	Temperature :	Humidity :
Reference conditions	101,325 kPa	23,0 °C	50 %RH
Measurement conditions :	97.79 ±0,20 kPa	22,2 ±1,3 °C	40,7 ±2,0 %RH

Date of calibration: 2021-05-20
Date of issue: 2021-05-20
Engineer

Anders Amundsen

Supervisor

Geir Emil Westrum

Norsonic
Norsonic Calibration Laboratory
VAT no.: NO 929 743 040 MVA

This certificate of calibration is issued by a laboratory accredited by Norwegian Accreditation (NA). NA is one of the signatories to the EA Multilateral Agreement for mutual recognition of calibration certificates (European Co-operation for Accreditation). The accreditation states that the laboratory meets the NA requirements concerning competence and calibration systems for all the calibrations contained in the accreditation. It also states that the laboratory has a satisfactory quality assurance system and traceability to accredited or national calibration laboratories. This certificate is only valid for the test objects stated, and may not be reproduced other than in full.

Norsonic

Certificate No.: CAL 022-2021-13919

Preconditioning :
The equipment was preconditioned for more than 12 hours at the specified calibration temperature and humidity.

Measurement method
A description of the calibration procedure (L244-07) is available separately from the calibration laboratory.

Instrumentation			Traceability
WSC5	Reference calibrator	Nor1256 / 6	PTB, Germany
G6	Signal Generator	Stanford Research DS 360 / 123548	IKM, Norway
MM4	Multimeter	Agilent 34401A / MY47064321	IKM, Norway
U6	Calibration unit	Nor483B / 25744	IKM, Norway
THM4	Environmental (P, T and H)	Vaisala PTU303 / U1320170	IV, Norway

Summary of Measurement Results

Indication at the calibration check frequency - IEC61672-3 Ed.1 Clause 9	Passed
Self-generated noise - IEC 61672-3 Ed.1 Clause 10.1	Passed
Acoustical signal tests of a frequency weighting - IEC 61672-3 Ed.1 Clause 11	Passed
Electrical signal tests of frequency weightings - IEC 61672-3 Ed 1 Clause 12	Passed
Frequency weightings: A Network - IEC 61672-3 Ed.1 Clause 12.3	Passed
Frequency weightings: C Network - IEC 61672-3 Ed.1 Clause 12.3	Passed
Frequency weightings: Z Network - IEC 61672-3 Ed.1 Clause 12.3	Passed
Frequency and time weightings at 1 kHz IEC 61672-3 Ed.1 Clause 13	Passed
Level linearity on the reference level range - IEC 61672-3 Ed.1 Clause 14	Passed
Toneburst response - IEC 61672-3 Ed.1 Clause 15	Passed
Peak C sound level - IEC 61672-3 Ed.1 Clause 17	Passed
Overload indication - IEC 61672-3 Ed.1 Clause 18	Passed

Records:
L:\NCL\L8 Målinger\97 SLM\2021\NOR131_1513980_M2.mmf

Verification:
The verification measurements have been performed using the calibration system Nor1504A with software type Nor1019.
Most of the verification tests are electrical tests. Test signals are led to the sound measuring device through an adapter that resembles the microphone signal. A special adapter with a suitable electrical characteristic is used.
Some measurements are acoustical (with microphone). This is the acoustical part of the self-noise test and the acoustical verification of the frequency response.
Detailed measurement results are printed on the following pages.
Each of the verification test points has a Result indication (P or N) that tells the obtained result of the actual test.
P = the result is Passed
N = the result is Not passed
Uncertainties and tolerance / acceptance limits are handled as described in the actual standards for the evaluation of the results. All verification tests must have a Passed indication in order to fulfil the requirements in the IEC61672-3 standard

Norsonic

Certificate No.: CAL 022-2021-13919

Measurement results

Indication at the calibration check frequency - IEC61672-3 Ed.1 #9

```
Reference level: 114,0 dB
Reference range: 130 dB FS
Reference frequency: 1000 Hz
Reference Calibrator: WSC7 - Nor1256-123626002
Reference calibrator level: 114,12
Before calibration:
Environmental corrections: 0,00
Other corrections: -0,2
Notional level: 113,92
Calibrator level before adjustment: 113,9
Associated Calibrator: - -
Associated calibrator level: 0
Test Passed
```

Self-generated noise - IEC 61672-3 Ed.1 #10.1

```
Acoustic self noise test with microphone installed.
The test object is placed in a low noise enclosure Nor523.
The test object was set to A-weighting and S time-weighting. The
average of 10 samples is reported.
Indicated level: 20,2 dBA.
This test is for information only.
Test performed.
Readings:
1:19,8
2:19,9
3:20,0
4:19,8
5:20,1
6:20,2
7:20,0
8:19,9
9:20,2
10:20,1
```

Self-generated noise - IEC 61672-3 Ed.1 #10.2

Network	Level (dB)	Comment
A	14,3	Equivalent capacity
C	14,8	Equivalent capacity
Z	19,0	Equivalent capacity

Test Passed

Norsonic

Certificate No.: CAL 022-2021-13919

Acoustical signal tests of a frequency weighting - IEC 61672-3 Ed.1 #11

C-Weighted results

Frequency	SLM Meas (dB)	SLM U (dB)	Microphone Corr (dB)	Microphone U (dB)	Case Refl. Corr (dB)	Case Refl. U (dB)	Wind Screen Corr (dB)	Wind Screen U (dB)	Uncert (dB)	Lim (dB)	Result (dB)	
125 Hz	-0,5	0,2	0,0	0,1	0,0	0,1			0,2	+-1.5	-0,5	P
1 kHz	0,0	0,1	0,1	0,2	-0,1	0,1			0,2	+-[illegible]	0,0	P
8 kHz	-3,9	0,2	2,8	0,2	0,0	0,3			0,6	[illegible]	[illegible]	P

The level obtained at 1 kHz was used as reference for the calculations.
This level was: 93,07 dB.
The overall frequency response of the sound level meter, nominal case reflections and microphone response has shown to conform with the requirements in IEC 61672-3 for a class 1 sound level meter.
Frequency response test using multi frequency calibrator.
Sources for correction data:

Calibrator levels and uncertainty:	Norsonic - NCL
Microphone field corrections and uncertainty:	Norsonic - NCL
Case reflections and uncertainty:	Norsonic AS
Wind screen corrections and uncertainty:	

Test Passed

Electrical signal tests of frequency weightings IEC 61672-3 Ed.1 #12

A-weighted results:

Frequency	SLM Meas (dB)	SLM U (dB)	Microphone Corr (dB)	Microphone U (dB)	Case Refl. Corr (dB)	Case Refl. U (dB)	Wind Screen Corr (dB)	Wind Screen U (dB)	Uncert (dB)	Lim (dB)	Result (dB)	
63 Hz	0,0	0,1	0,0	0,1	0,0	0,1			0,17	+-1.5	0,0	P
125 Hz	0,1	0,1	0,0	0,1	0,0	0,1			0,17	+-1.5	-0,1	P
250 Hz	-0,1	0,1	0,0	0,1	0,1	0,1			0,17	+-1.4	0,0	P
500 Hz	-0,1	0,1	0,0	0,1	0,2	0,1			0,17	+-1.4	0,1	P
1 kHz	0,0	0,1	-0,1	0,2	-0,1	0,1			0,24	+-1.1	-0,2	P
2 kHz	-0,1	0,1	0,0	0,3	0,3	0,2			0,37	+-1.6	0,2	P
4 kHz	-0,1	0,1	-0,3	0,4	0,3	0,2			0,46	+-1.6	0,0	P
8 kHz	-0,1	0,1	-0,2	0,5	0,0	0,3			0,59	2.1/3.1	-0,3	P
16 kHz	0,0	0,1	-4,7	0,6	0,3	0,3			0,68	3.5/17	-4,4	P

C-Weighted results:

Frequency	SLM Meas (dB)	SLM U (dB)	Microphone Corr (dB)	Microphone U (dB)	Case Refl. Corr (dB)	Case Refl. U (dB)	Wind Screen Corr (dB)	Wind Screen U (dB)	Uncert (dB)	Lim (dB)	Result (dB)	
63 Hz	-0,1	0,1	0,0	0,1	0,0	0,1			0,17	+-1.5	-0,1	P
125 Hz	0,0	0,1	0,0	0,1	0,0	0,1			0,17	+-1.5	0,1	P
250 Hz	-0,1	0,1	0,0	0,1	0,1	0,1			0,17	+-1.4	0,0	P
500 Hz	0,0	0,1	0,0	0,1	0,2	0,1			0,17	+-1.4	0,2	P
1 kHz	0,0	0,1	-0,1	0,2	-0,1	0,1			0,24	+-1.1	-0,2	P
2 kHz	-0,1	0,1	0,0	0,3	0,3	0,2			0,37	+-1.6	0,2	P
4 kHz	-0,1	0,1	-0,2	0,4	0,3	0,2			0,46	+-1.6	0,0	P
8 kHz	-0,1	0,1	-0,2	0,5	0,0	0,3			0,59	2.1/3.1	-0.3	P
16 kHz	-0,1	0,1	-4,7	0,6	0,3	0,3			0,68	3.5/17	-4.5	P

Norsonic

Certificate No.: CAL 022 2021 13919

Z Weighted results:

Frequency	SLM Meas (dB)	SLM U (dB)	Microphone Corr (dB)	Microphone U (dB)	Case Refl. Corr (dB)	Case Refl. U (dB)	Wind Screen Corr (dB)	Wind Screen U (dB)	Uncert (dB)	Lim (dB)	Result (dB)	
63 Hz	0,0	0,1	0,0	0,1	0,0	0,1			0,17	+ 1.5	0,0	P
125 Hz	0,0	0,1	0,0	0,1	0,0	0,1			0,17	+ 1.5	0,0	P
250 Hz	-0,1	0,1	0,0	0,1	0,1	0,1			0,17	+ 1.4	0,0	P
500 Hz	0,0	0,1	0,0	0,1	0,2	0,1			0,17	+-1.4	0,2	P
1 kHz	0,0	0,1	-0,1	0,2	-0,1	0,1			0,24	+-1.1	-0,2	P
2 kHz	-0,1	0,1	0,0	0,3	0,3	0,2			0,37	+-1.6	0,2	P
4 kHz	-0,1	0,1	-0,2	0,4	0,3	0,2			0,46	+-1.6	0,0	P
8 kHz	-0,1	0,1	-0,2	0,5	0,0	0,3			0,59	2.1/3.1	-0,3	P
16 kHz	-0,1	0,1	-4,7	0,6	0,3	0,3			0,68	3.5/17	-4,5	P

The nominal frequency response of Norsonic / 1228 has been used for the calculations.

The overall frequency response of the sound level meter, nominal case reflections and microphone response has shown to conform with the requirements in IEC 61672-3 for a class 1 sound level meter.

The calculated uncertainties are checked against the requirements in the standard.

Sources for correction data:

Microphone response and uncertainty: Norsonic AS

Case reflections and uncertainty: Norsonic AS

Test Passed

Frequency weightings: A Network - IEC 61672-3 Ed.1 #12.3

Frequency (Hz)	Ref. (dB)	Meas. (dB)	Uncert. (dB)	Dev. (dB)
63,1	92,0	92,0	0,1	0,0
125,9	92,0	91,9	0,1	-0,1
251,2	92,0	91,9	0,1	0,1
501,2	92,0	91,9	0,1	0,1
1000,0	92,0	92,0	0,1	0,0
1995,3	92,0	91,9	0,1	0,1
3981,1	92,0	91,9	0,1	0,1
7943,3	92,0	91,9	0,1	0,1
15848,9	92,0	92,0	0,1	0,0

Test Passed

Frequency weightings: C Network - IEC 61672-3 Ed.1 #12.3

Frequency (Hz)	Ref. (dB)	Meas. (dB)	Uncert. (dB)	Dev. (dB)
63,1	92,0	91,9	0,1	0,1
125,9	92,0	92,0	0,1	0,0
251,2	92,0	91,9	0,1	0,1
501,2	92,0	92,0	0,1	0,0
1000,0	92,0	92,0	0,1	0,0
1995,3	92,0	91,9	0,1	-0,1
3981,1	92,0	91,9	0,1	-0,1
7943,3	92,0	91,9	0,1	-0,1
15848,9	92,0	91,9	0,1	-0,1

Test Passed

Norsonic

Certificate No.: CAL 022-2021-13919

Frequency weightings: Z Network - IEC 61672-3 Ed 1 #12.3

Frequency (Hz)	Ref. (dB)	Meas. (dB)	Uncert. (dB)	Dev. (dB)
63,1	92,0	92,0	0,1	0,0
125,9	92,0	92,0	0,1	0,0
251,2	92,0	91,9	0,1	-0,1
501,2	92,0	92,0	0,1	0,0
1000,0	92,0	92,0	0,1	0,0
1995,3	92,0	91,9	0,1	-0,1
3981,1	92,0	91,9	0,1	-0,1
7943,3	92,0	91,9	0,1	-0,1
15848,9	92,0	91,9	0,1	0,1

Test Passed

Frequency and time weightings at 1 kHz IEC 61672-3 Ed 1 #13

Weightings Time	Weight.	Ref. (dB)	Measured (dB)	Tol. (dB)	(dB)	Uncert. (dB)	Dev. (dB)	Result
Fast	A	114,0	114,0	0,4	-0,4	0,1	0,0	P
Fast	C	114,0	114,0	0,4	-0,4	0,1	0,0	P
Fast	Z	114,0	114,0	0,4	0,4	0,1	0,0	P
Fast	Flat	114,0	114,0	0,4	0,4	0,1	0,0	P
Slow	A	114,0	114,0	0,3	0,3	0,1	0,0	P
Leq	A	114,0	114,0	0,3	0,3	0,1	0,0	P
SEL	A	124,0	124,0	0,3	-0,3	0,1	0,0	P

Test Passed

Level linearity on the reference level range - IEC 61672-3 Ed.1 #14

Ref. (dB)	Measured (dB)	Tol. (dB)	(dB)	Uncert. (dB)	Dev. (dB)	Result
Measured at 31.5 Hz						
94,0	94,0	1,1	1,1	0,1	0,0	P
95,0	95,0	1,1	1,1	0,1	0,0	P
96,0	96,0	1,1	-1,1	0,1	0,0	P
97,0	97,0	1,1	-1,1	0,1	0,0	P
94,0	94,0	1,1	-1,1	0,1	0,0	P
89,0	89,1	1,1	-1,1	0,1	0,1	P
84,0	84,1	1,1	-1,1	0,1	0,1	P
79,0	79,1	1,1	-1,1	0,1	0,1	P
74,0	74,1	1,1	1,1	0,1	0,1	P
69,0	69,1	1,1	1,1	0,1	0,1	P
64,0	64,1	1,1	1,1	0,1	0,1	P
59,0	59,0	1,1	1,1	0,1	0,0	P
54,0	54,0	1,1	-1,1	0,1	0,0	P
49,0	49,1	1,1	-1,1	0,1	0,1	P
44,0	44,1	1,1	-1,1	0,1	0,1	P
40,0	40,0	1,1	-1,1	0,1	0,0	P
39,0	39,0	1,1	-1,1	0,1	0,0	P
38,0	38,0	1,1	-1,1	0,1	0,0	P
37,0	37,1	1,1	-1,1	0,1	0,1	P
36,0	36,0	1,1	1,1	0,1	0,0	P
35,0	35,1	1,1	-1,1	0,1	0,1	P
Measured at 1 kHz						
114,0	114,0	1,1	-1,1	0,1	0,0	P
119,0	119,0	1,1	-1,1	0,1	0,0	P
124,0	124,0	1,1	-1,1	0,1	0,0	P
129,0	129,0	1,1	-1,1	0,1	0,0	P
132,0	132,0	1,1	-1,1	0,1	0,0	P
133,0	133,0	1,1	-1,1	0,1	0,0	P
134,0	134,0	1,1	-1,1	0,1	0,0	P
135,0	135,0	1,1	1,1	0,1	0,0	P

136,0	136,0	1,1	-1,1	0,1	0,0	P
114,0	114,0	1,1	-1,1	0,1	0,0	P
109,0	109,0	1,1	-1,1	0,1	0,0	P
104,0	104,0	1,1	-1,1	0,1	0,0	P
99,0	99,0	1,1	-1,1	0,1	0,0	P
94,0	94,0	1,1	-1,1	0,1	0,0	P
89,0	89,0	1,1	-1,1	0,1	0,0	P
84,0	84,0	1,1	1,1	0,1	0,0	P
79,0	79,0	1,1	1,1	0,1	0,0	P
74,0	74,0	1,1	1,1	0,1	0,0	P
69,0	69,0	1,1	1,1	0,1	0,0	P
64,0	64,0	1,1	-1,1	0,1	0,0	P
59,0	59,0	1,1	-1,1	0,1	0,0	P
54,0	54,0	1,1	-1,1	0,1	0,0	P
49,0	49,0	1,1	-1,1	0,1	0,0	P
44,0	44,0	1,1	-1,1	0,1	0,0	P
40,0	40,0	1,1	-1,1	0,1	0,0	P
39,0	39,0	1,1	-1,1	0,1	0,0	P
38,0	38,0	1,1	-1,1	0,1	0,0	P
37,0	37,0	1,1	-1,1	0,1	0,0	P
36,0	36,0	1,1	-1,1	0,1	0,0	P
35,0	35,0	1,1	1,1	0,1	0,0	P

Measured at 8 kHz

124,0	124,0	1,1	1,1	0,1	0,0	P
119,0	119,0	1,1	1,1	0,1	0,0	P
124,0	124,1	1,1	1,1	0,1	0,1	P
129,0	129,0	1,1	-1,1	0,1	0,0	P
132,0	132,0	1,1	-1,1	0,1	0,0	P
133,0	133,0	1,1	-1,1	0,1	0,0	P
134,0	134,0	1,1	-1,1	0,1	0,0	P
135,0	135,0	1,1	-1,1	0,1	0,0	P
136,0	136,1	1,1	-1,1	0,1	0,1	P
114,0	114,0	1,1	-1,1	0,1	0,0	P
109,0	109,0	1,1	-1,1	0,1	0,0	P
104,0	104,0	1,1	-1,1	0,1	0,0	P
99,0	99,0	1,1	-1,1	0,1	0,0	P
94,0	94,0	1,1	-1,1	0,1	0,0	P
89,0	89,0	1,1	-1,1	0,1	0,0	P
84,0	84,0	1,1	-1,1	0,1	0,0	P
79,0	79,0	1,1	-1,1	0,1	0,0	P
74,0	74,0	1,1	-1,1	0,1	0,0	P
69,0	69,0	1,1	-1,1	0,1	0,0	P
64,0	64,0	1,1	-1,1	0,1	0,0	P
59,0	59,0	1,1	1,1	0,1	0,0	P
54,0	54,0	1,1	1,1	0,1	0,0	P
49,0	49,0	1,1	1,1	0,1	0,0	P
44,0	44,0	1,1	-1,1	0,1	0,0	P
40,0	40,0	1,1	-1,1	0,1	0,0	P
39,0	39,0	1,1	-1,1	0,1	0,0	P
38,0	38,0	1,1	-1,1	0,1	0,0	P
37,0	37,0	1,1	-1,1	0,1	0,0	P
36,0	36,1	1,1	-1,1	0,1	0,1	P
35,0	35,1	1,1	-1,1	0,1	0,1	P

Test Passed

Norsonic

Certificate No.: CAL 022-2021-13919

Toneburst response - IEC 61672-3 Ed.1 #16

Burst type	Ref. (dB)	Measured (dB)	Tol. (dB)	(dB)	Uncert. (dB)	Dev. (dB)	Result
Fast 200 mSec	133,9	132,9	0,8	-0,8	0,2	-0,1	P
Fast 2.0 mSec	116,8	115,7	1,3	1,8	0,2	-0,4	P
Fast 0.25 mSec	107,0	106,3	1,3	3,3	0,2	-0,7	P
Slow 200 mSec	126,6	126,5	0,8	0,8	0,2	0,1	P
Slow 2.0 mSec	107,0	106,9	1,3	-3,3	0,2	0,1	P
SRT 200 mSec	127,0	126,9	0,8	-0,8	0,2	-0,1	P
SRT 2.0 mSec	107,0	106,9	1,3	-1,8	0,2	-0,1	P
SRT 0.25 mSec	98,0	97,4	1,3	-3,3	0,2	-0,6	P

Test Passed

Peak C sound level - IEC 61672-3 Ed.1 #17

Pulse Type	Pulse Freq. (Hz)	Ref. RMS (dB)	Ref. Peak (dB)	Measured Value (dB)	Tol. (+/-dB)	Uncert. (dB)	Dev. (dB)	Result
1 cycle	8k	129,0	132,4	132,0	2,4	0,2	-0,4	P
Pos 1/2 cycle	500	132,0	134,4	134,4	1,4	0,2	0,0	P
Neg 1/2 cycle	500	132,0	134,4	134,3	1,4	0,2	-0,1	P

Test Passed

Overload indication - IEC 61672-3 Ed.1 #18

	Measured (dB)	Tol. (+/-dB)	Uncert. (dB)	Result
Level difference of positive and negative pulses:	0,2	1.8	0.2	P

Positive 1/2 cycle 4 kHz. Overload occurred at: 142,1

Negative 1/2 cycle 4 kHz. Overload occurred at: 142,3

Test Passed

Measurements performed by NCL NORSONIC CALIBRATION LABORATORY

Street address: Gunnersbritan 2, N-3408 Tranby, Norway
Tel.: +47 32858900 email: ncl@norsonic.com

Certificate of Calibration

Certificate No.: 476754898

Object:	Precision Sound Level Meter Nor131
Supplier:	Norsonic AS
Type:	Nor131
Serial number:	1314098
Client:	AECOM Singapore Pte.Ltd.

This instrument is tested and calibrated in accordance to the Norsonic production standard set for Nor131, ensuring that the instrument conforms to the following standards;

IEC 61672-1:2002 class 1
IEC 61260-1 class 1 Ed 1.0 2014-02
ANSI S1.4-1983 (R2001) with amd. S1.4A-1985 class 1
ANSI S1.43-1997 (R2002) class 1
ANSI S1.11-2004 class 1
DIN 45 657, Applicable parts
IEC 61094 part 4

Instrumentation used for calibration traceable to:

Electrical Parameters: MT, Norway
Acoustical Parameters: PTB, Germany
Environmental Parameters: Justervesenet, Norway

FW version:	4.0.1430 2020-08-12 11:26r
Id no.:	6754898
Accessories:	Preamplifier type: 1207 S.no: 21395 Microphone type: 1228 S.no: 03162
Comments:	None

Date of calibration:	**Calibration interval recommended:**
2021-06-17	2 years

The environmental parameters applicable to this calibration are kept well within limits ensuring negligible deviation on obtained measurement results.

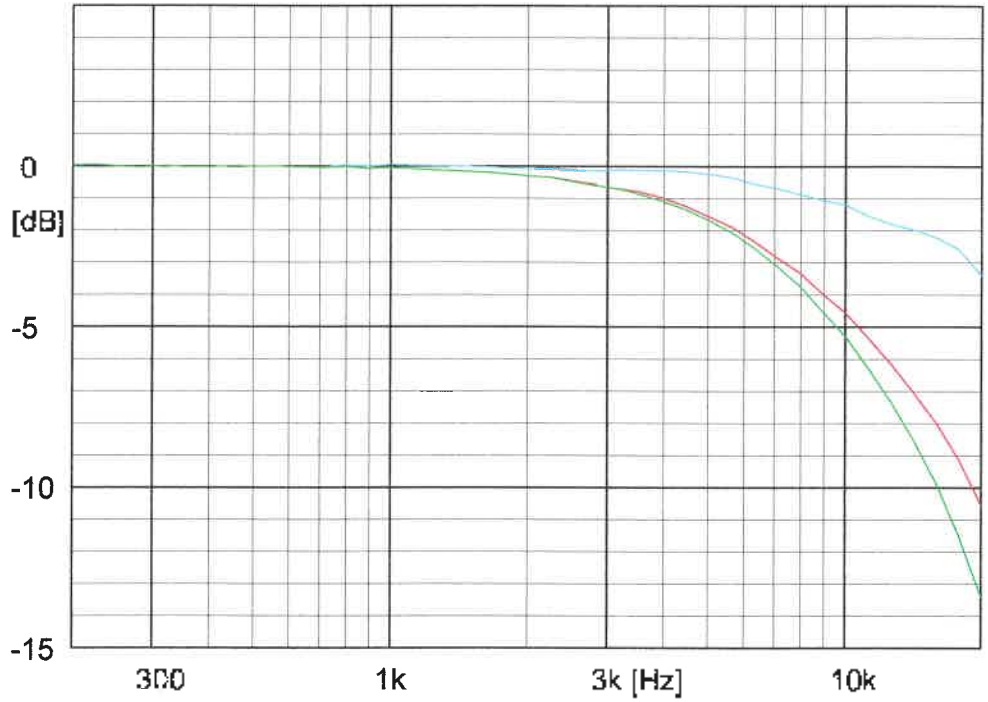
Calibrated by:
Anders Amundsen

Sign.

Norsonic

Norsonic AS, P.B 24, 3421 Lierskogen. Visitor address: Gunnersbråtan 2, Tranby, Norway.
Phone +47 32858900 Fax.: +47 32852208. email: info@norsonic.com

Microphone Calibration Certificate



Norsonic
Type: 1228

Serial no: 03162

Sensitivity: 44,5 mV/Pa
-27,0 dB re 1 V/Pa

Date: 2021-06-14

Signature: E. Mørch

Measurement conditions:

Polarisation voltage:	0,0 V
Pressure:	97,90 kPa
Temperature:	24,1 °C
Relative humidity:	43,1 %RH

Results are normalized to the reference conditions.

Free field response
Diffuse field response
Pressure (Actuator) response

Norsonic AS
www.norsonic.com

Microphone Specifications

Calibration of your microphone cartridge has been made with utmost care to meet all your needs for a high quality measurement device. The calibration is traceable to PTB in Germany.

Nominal Specifications

Ambient temperature coeffecient: 0.01 dB/°C
Ambient pressure coeffecient: -1×10^{-1} dB/Pa
Temperature range: -30 to +70°C
Diameter: 13.2 mm with protection grid on.
12.7 mm without protection grid
Thread for preamp mounting: 11.7 mm 60 UNS

Reference Values

Temperature: 23°C
Relative humidity: 50%
Ambient pressure: 101.325 kPa
Test frequency for sensitivity: 250 Hz

Norsonic Warranty Statement

The warranty period for microphones is 36 months after the time of delivery.
The warranty does not include damage due to improper handling, overload, force majeur, or normal wear and tear. The warranty is not granted if the buyer make modifications or repairs without our written consent. Norsonic can choose either to repair or replace microphones having defects due to material or workmanship. Defective goods should be returned to our factory or one of our distributors, and shipments are to be paid and insured by the buyer unless otherwise agreed.

Appendix S

Baseline Airborne Noise Monitoring Report (Train Noise)

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1. Introduction

Under Contract C9175 Advance Engineering Study for the Proposed Downtown Line 2 Extension and a New Station on Existing North-South Line, Land Transport Authority (LTA) appointed AECOM Singapore Pte Ltd (AECOM) to undertake Noise and Vibration Study (NVS) to assess the potential noise impacts arising from, and associated with, the operation of the proposed elevated train within the Indicative Study Area provided by LTA (hereafter referred to as the "Project").

The study will involve the assessment of the noise impacts arising from train noise of the Project. This report details the baseline noise monitoring results at the nearest industrial receptor to the proposed elevated alignment – Option N1 - in the Project. The purpose of conducting baseline airborne noise monitoring is to determine the existing noise levels near the locations of the proposed Project worksites/ Indicative Study Area for further assessments and validation of noise level predictions.

1.1 Airborne Noise Monitoring Schedule

Unattended noise monitoring was conducted at the proposed locations to capture the existing noise level profiles in the vicinity. The monitoring dates and locations of the monitoring points are reflected in Table 1 below.

Table 1 Baseline Monitoring Locations

No.	Monitoring Point	Monitoring Location	Monitoring Period
1	N1	25E Sungei Kadut St 1 at Samwoh Corporation	11 Nov - 17 Nov 2021

1.2 Airborne Noise Monitoring Equipment

One (1) Norsonic 131 Sound Level Meter (SLM) with microphones were utilized to collect data for the Project. For the purpose of QA/QC, the SLM was calibrated before each monitoring session without any drift in calibration before and after monitoring to ensure that equipment readings remain within acceptable margins of error. In order to reduce the changes to recording unwanted noise caused by the wind, a windshield was attached to the microphone. Noise levels were recorded in 1-minute intervals using the L_{Aeq} descriptor, under a 'fast' time-weighting. Calibration certificates of the noise monitoring equipment as per Table 2 are presented in Annex B**Annex A**.

Table 2 Airborne Noise Monitoring Equipment

Instrument	Brand	Model	Serial Numbers	Type
Norsonic 131	Norsonic	Norsonic 131	1313989	1

Figure 1 Airborne Noise Monitoring Setup

1.3 Baseline Airborne Noise Monitoring Data

The daily baseline airborne noise monitoring results for 25E Sungei Kadut St 1 at Samwoh Corporation for are listed in this section. The daytime period of 7:00am – 7:00pm will be used for the airborne noise criteria for non-sensitive receptors such as industrial, commercial and utility premises for the Train Noise Assessment. It will cover of Weekdays (Monday to Saturday) and Weekend/ Public Holidays (i.e. Sunday and Public Holidays) for $L_{Aeq(1\ hour)}$, but only the Maximum Overall noise value is used to establish the criteria. It should be noted that current presented results shall only serve as a reference to the baseline airborne noise levels at locations surrounding the entire Indicative Study Area.

The corresponding graphs for the daily monitoring data are displayed in **Annex A**. The recorded background noise levels are shown in Table 3.

Table 3 Baseline Airborne Noise Monitoring Results

Monitoring Period		$L_{Aeq(1hour)}$, dB		
		7:00 am – 7:00 pm	7:00 pm – 10:00 pm	10:00 pm – 7:00 am
11-Nov-21 Thursday	Min	-	55	45
	Max	-	60	58
	Average / Overall	-	58	51
12-Nov-21 Friday	Min	59	56	38
	Max	68	59	60
	Average / Overall	64	57	49
13-Nov-21 Saturday	Min	58	55	39
	Max	63	64	55
	Average / Overall	61	59	47
14-Nov-21 Sunday	Min	54	53	45
	Max	60	57	58
	Average / Overall	57	55	50
15-Nov-21 Monday	Min	59	56	41
	Max	66	60	59
	Average / Overall	63	58	55
16-Nov-21 Tuesday	Min	58	60	39
	Max	66	61	57
	Average / Overall	63	60	50
17-Nov-21 Wednesday	Min	59	57	39
	Max	67	62	62
	Average / Overall	62	58	50

1.4 Summary of Baseline Airborne Noise Monitoring Results for Airborne Noise Impact

The baseline airborne noise monitoring results at 25E Sungei Kadut St 1 at Samwoh Corporation are summarized in this section for results recorded for Weekdays (Monday – Saturday) and Weekend/ Public Holidays (i.e. Sunday and Public Holidays).

Baseline Airborne Noise Monitoring Results (Weekdays)

Table 4 Summary of Baseline Airborne Noise Monitoring Results for Weekdays (Monday – Saturday) at 25E Sungei Kadut St 1

Monitoring period		$L_{Aeq(1hour)}$, dB		
		7:00 am – 7:00 pm	**7:00 pm – 10:00 pm**	**10:00 pm – 7:00 am**
11 Nov – 13 Nov and 15 Nov – 17 Nov 2021	Min	54	53	38
	Max	68	64	62
	Average / Overall	62	58	51

Baseline Airborne Noise Monitoring Results (Weekend/ Public Holidays)

Table 5 Summary of Baseline Airborne Noise Monitoring Results for Sunday and Public Holiday at 25E Sungei Kadut St 1

Monitoring period		$L_{Aeq(1hour)}$, dB		
		7:00 am – 7:00 pm	**7:00 pm – 10:00 pm**	**10:00 pm – 7:00 am**
14 Nov 2021	Min	54	53	45
	Max	60	57	58
	Average / Overall	57	55	50

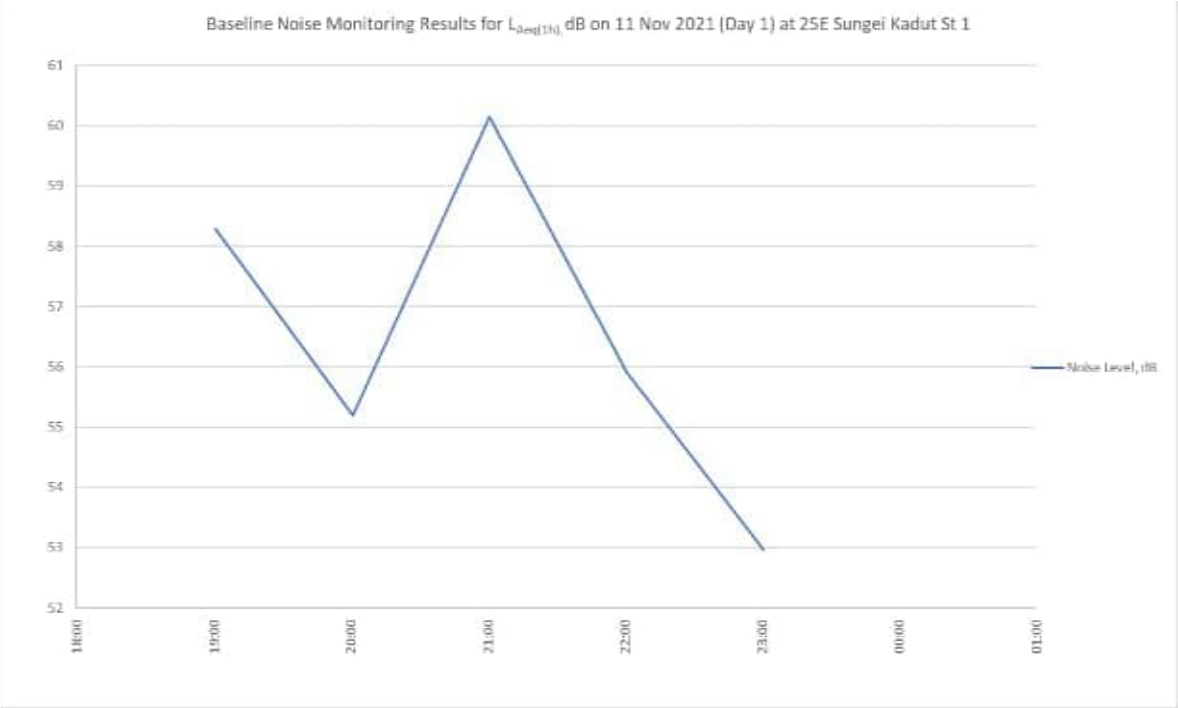
Baseline Airborne Noise Monitoring Results (Overall)

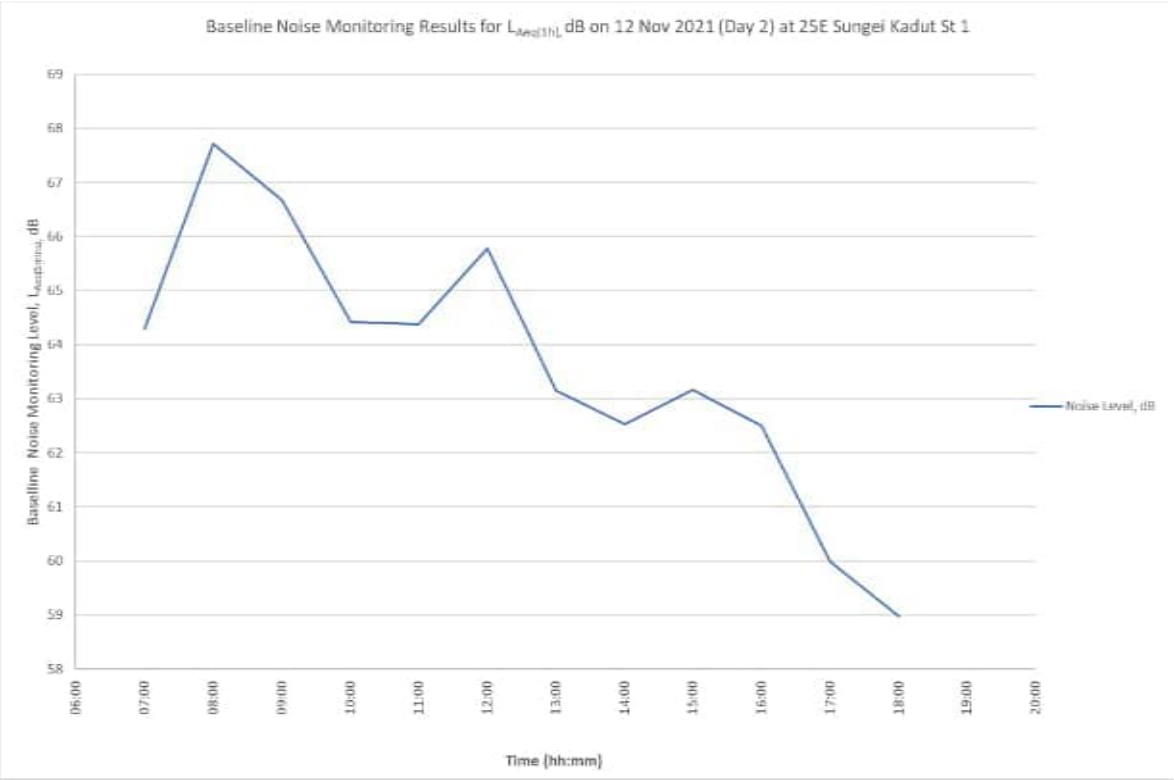
Table 6 Summary of Overall Baseline Airborne Noise Monitoring Results at 25E Sungei Kadut St 1

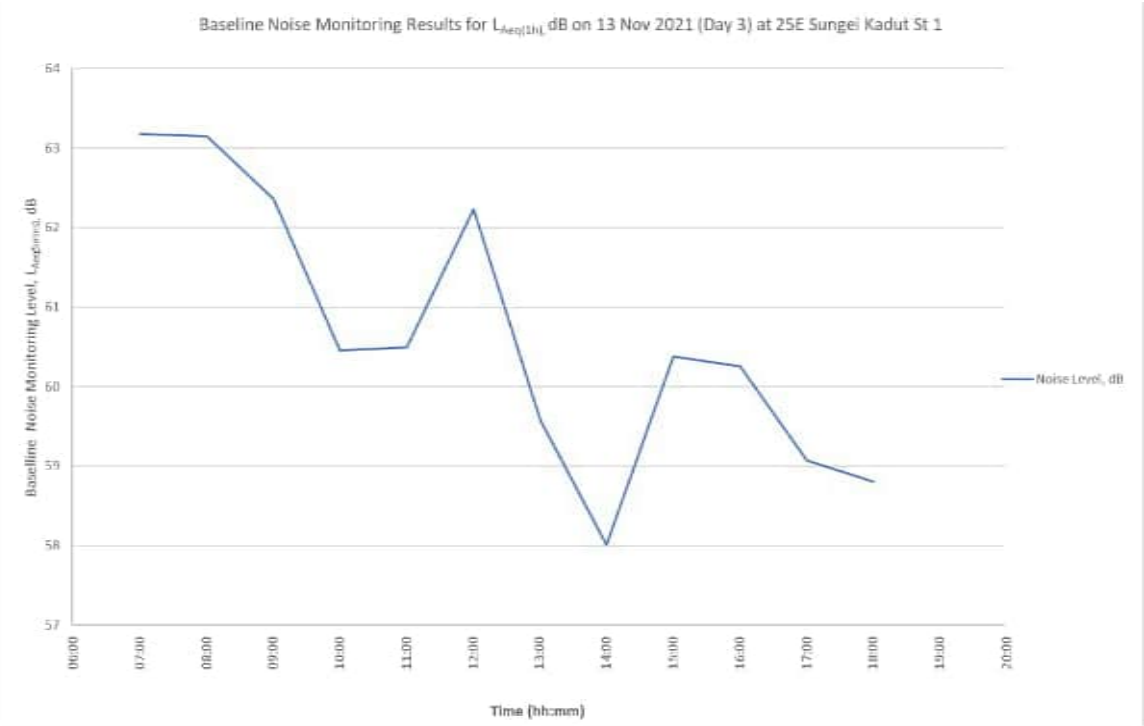
Monitoring period		$L_{Aeq(1hour)}$, dB		
		7:00 am – 7:00 pm	**7:00 pm – 10:00 pm**	**10:00 pm – 7:00 am**
11 Nov – 17 Nov 2021	Min	54	53	45
	Max	68	57	58
	Average / Overall	62	55	50

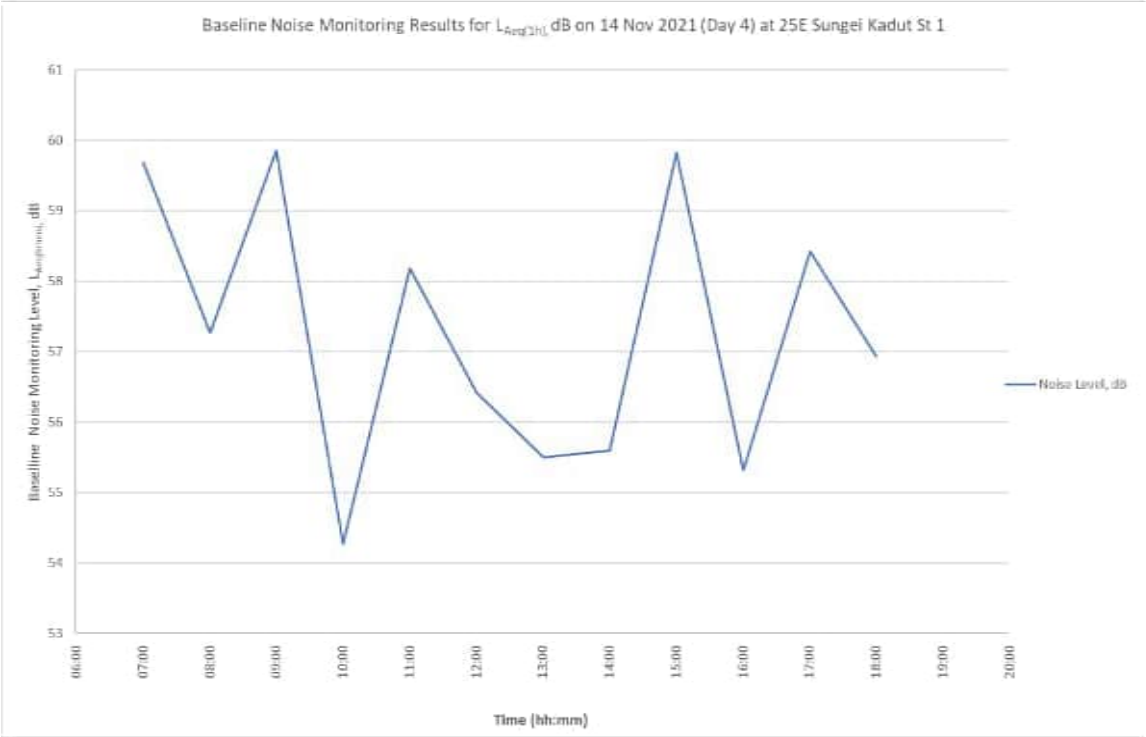
Annex A

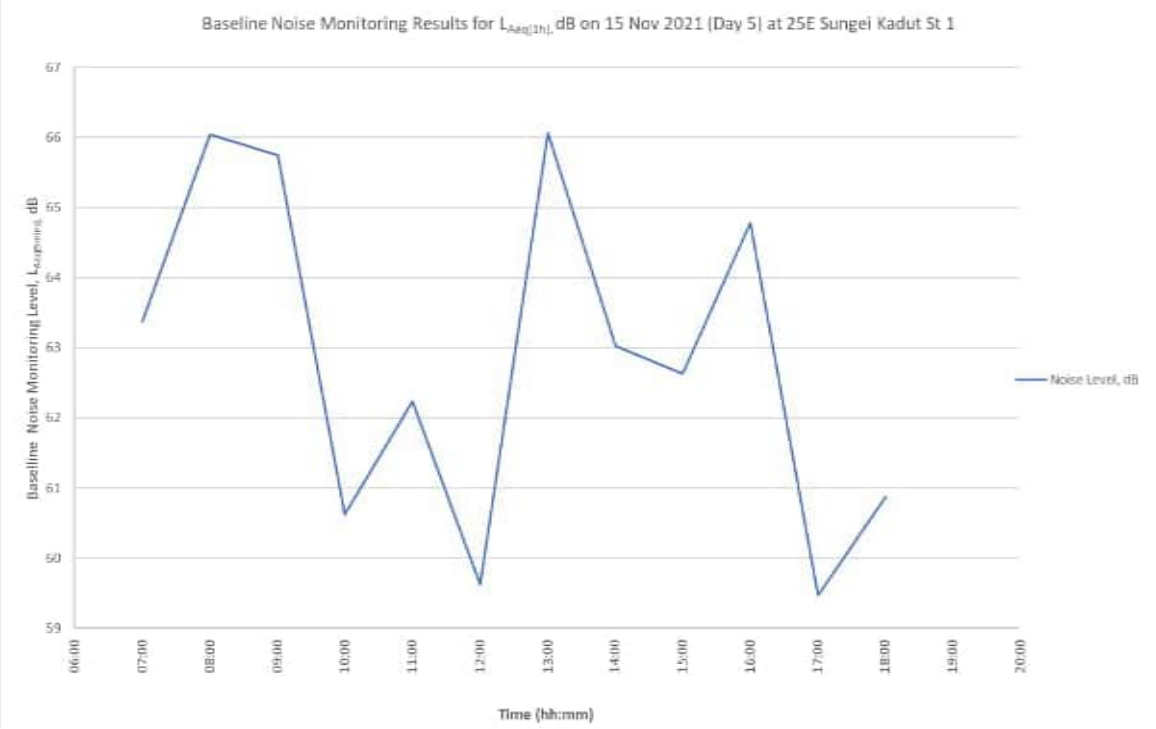
Graphs reflecting $L_{Aeq(5mins)}$ Baseline Noise Monitoring Results recorded at NM01

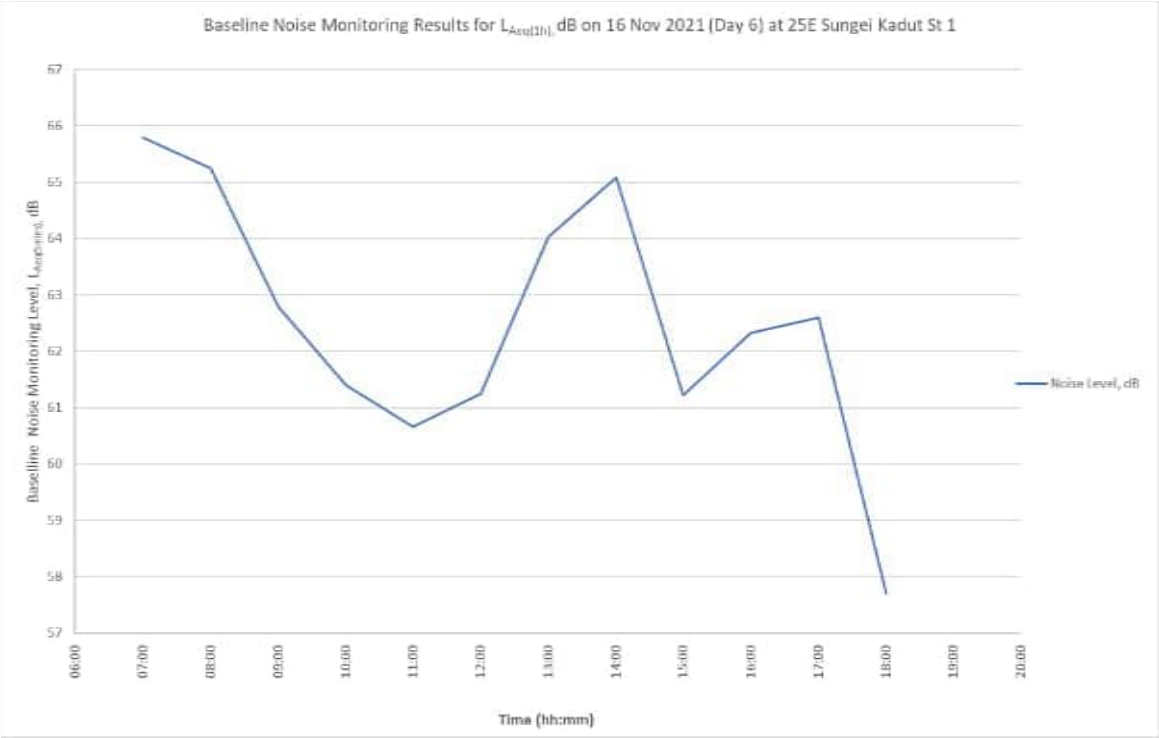


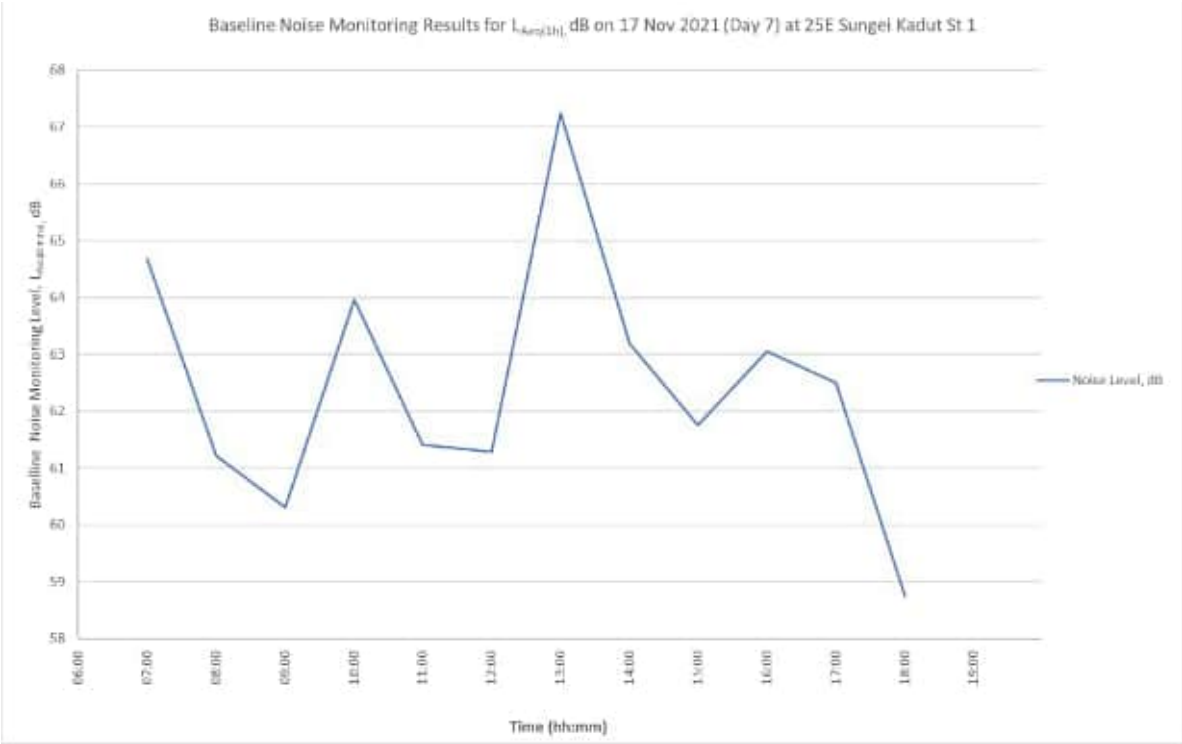



Baseline Noise Monitoring Results for $L_{Aeq(1h)}$ dB on 13 Nov 2021 (Day 3) at 25E Sungei Kadut St 1
Baseline Noise Monitoring Level, $L_{Aeq(1h)}$, dB
64
63
62
61
60
59
58
57
06:00
07:00
08:00
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
20:00
Time (hh:mm)
Noise Level, dB


Baseline Noise Monitoring Results for $L_{Aeq(1h)}$ dB on 14 Nov 2021 (Day 4) at 25E Sungei Kadut St 1
Baseline Noise Monitoring Level, $L_{Aeq(1h)}$, dB
61
60
59
58
57
56
55
54
53
06:00
07:00
08:00
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
20:00
Time (hh:mm)
Noise Level, dB


Baseline Noise Monitoring Results for $L_{Aeq(1h)}$, dB on 15 Nov 2021 (Day 5) at 25E Sungei Kadut St 1
Baselline Noise Monitoring Level, $L_{Aeq(1min)}$, dB
67
66
65
64
63
62
61
60
59
06:00
07:00
08:00
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
20:00
Time (hh:mm)
Noise Level, dB


Baseline Noise Monitoring Results for $L_{Aeq(1h)}$, dB on 16 Nov 2021 (Day 6) at 25E Sungei Kadut St 1
Baselline Noise Monitoring Level, $L_{Aeq(1min)}$, dB
67
66
65
64
63
62
61
60
59
58
57
06:00
07:00
08:00
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
20:00
Time (hh:mm)
Noise Level, dB


Baseline Noise Monitoring Results for $L_{Aeq(1h)}$, dB on 17 Nov 2021 (Day 7) at 25E Sungei Kadut St 1
Baseline Noise Monitoring Level, $L_{Aeq(1hr)}$, dB
68
67
66
65
64
63
62
61
60
59
58
06:00
07:00
08:00
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
Time (hh:mm)
Noise Level, dB

Annex B

Norsonic

Certificate of Calibration

Certificate No.: CAL 022-2021-13920

Test object:	Manufacturer :	Type :	Serial No.:
Sound level meter :	Norsonic	131	1313989
Microphone :	Norsonic	1228	03256
Preamplifier :	Norsonic	1207	21125
Sound calibrator :	None		

Customer:	TME Systems Pte. Ltd
Address:	1 Commonwealth Lane #07-06 One Commonwealth 149544 Singapore
Order No:	RO2120001

The measurements are performed according to the IEC 61672-3 Ed. 1 (2006).
Acoustical levels are stated relative to 20µPa. Other dB levels are relative values.
The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k, which with the reported effective degree of freedom corresponds to coverage probability of approximately 95%. The standard uncertainty of measurement has been determined in accordance with EA publication EA-4/02

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

Indication at the Calibration Check Frequency
The level indication of the sound level meter was controlled using the laboratory reference: WSC7 - Nor1256-1256260002. The indicated level was: 113.9 dB. Sensitivity: -28,6 dB rel. 1V/Pa. This reading should be used henceforth to set up the sound level meter for field use.

Comment : (None)

Environmental conditions:	Pressure :	Temperature :	Humidity :
Reference conditions:	101,325 kPa	23,0 °C	50 %RH
Measurement conditions :	97,79 ±0,20 kPa	22,2 ±1,3 °C	40.7 +2,0 %RH

Date of calibration: 2021-05-20
Date of issue: 2021-05-20
Engineer

Anders Amundsen

Supervisor

Geir Emil Westrum

Norsonic
Norsonic Calibration Laboratory
VAT no.: NO 929 743 040 MVA

This certificate of calibration is issued by a laboratory accredited by Norwegian Accreditation (NA). NA is one of the signatories to the EA Multilateral Agreement for mutual recognition of calibration certificates (European Co-operation for Accreditation). The accreditation states that the laboratory meets the NA requirements concerning competence and calibration system for all the calibrations contained in the accreditation. It also states that the laboratory has a satisfactory quality assurance system and traceability to accredited or national calibration laboratories. This certificate is only valid for the test objects stated, and may not be reproduced other than in full.

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Certificate No.: CAL 022-2021-13920

Preconditioning :
The equipment was preconditioned for more than 12 hours at the specified calibration temperature and humidity.

Measurement method :
A description of the calibration procedure (L244-07) is available separately from the calibration laboratory.

Instrumentation			Traceability
WSC6	Reference calibrator	Nor1256 / 6	PTB, Germany
G6	Signal Generator	Stanford Research DS 360 / 123548	IKM, Norway
MM4	Multimeter	Agilent 34401A / MY47064321	IKM, Norway
U6	Calibration unit	Nor483B / 25744	IKM, Norway
THM4	Environmental (P, T and H)	Vaisala PTU303 / L1320170	JV, Norway

Summary of Measurement Results

Indication at the calibration check frequency - IEC61672-3 Ed.1 Clause 9	Passed
Self-generated noise - IEC 61672-3 Ed.1 Clause 10.1	Passed
Acoustical signal tests of a frequency weighting - IEC 61672-3 Ed.1 Clause 11	Passed
Electrical signal tests of frequency weightings - IEC 61672-3 Ed.1 Clause 12	Passed
Frequency weightings: A Network - IEC 61672-3 Ed.1 Clause 12.3	Passed
Frequency weightings: C Network - IEC 61672-3 Ed.1 Clause 12.3	Passed
Frequency weightings: Z Network - IEC 61672-3 Ed.1 Clause 12.3	Passed
Frequency and time weightings at 1 kHz IEC 61672-3 Ed.1 Clause 13	Passed
Level linearity on the reference level range - IEC 61672-3 Ed.1 Clause 14	Passed
Toneburst response - IEC 61672-3 Ed.1 Clause 16	Passed
Peak C sound level - IEC 61672-3 Ed.1 Clause 17	Passed
Overload indication - IEC 61672-3 Ed.1 Clause 18	Passed

Records:
LANCIM.8 Malinger\P7 SLM\2021\NOR131_1313980_M2.nmf

Verification:
The verification measurements have been performed using the calibration system Nor1504A with software type Nor1019.
Most of the verification tests are electrical tests. Test signals are fed to the sound measuring device through an adapter that resembles the microphone signal. A special adapter with a suitable electrical characteristic is used.
Some measurements are acoustical (with microphone). This is the acoustical part of the self-noise test and the acoustical verification of the frequency response.
Detailed measurement results are printed on the following pages.
Each of the verification test points has a Result indication (P or N) that tells the obtained result of the actual test.
P = the result is Passed
N = the result is Not passed
Uncertainties and tolerance / acceptance limits are handled as described in the actual standards for the evaluation of the results. All verification tests must have a Passed indication in order to fulfill the requirements in the IEC61672-3 standard.

Certificate No.: CAL 022-2021-13920

Measurement results

Indication at the calibration check frequency - IEC61672-3 Ed.1 #9

```
Reference level: 114,0 dB
Reference range: 130 dB FS
Reference frequency: 1000 Hz
Reference Calibrator: WSC7 - Nor1256-125626002
Reference calibrator level: 114,12
Before calibration:
Environmental corrections: 0,00
Other corrections: -0,2
Nominal level: 113,92
Calibrator level before adjustment: 113,9
Associated Calibrator:  -  -
Associated calibrator level: 0
Test Passed
```

Self-generated noise - IEC 61672-3 Ed.1 #10.1

```
Acoustic self noise test with microphone installed.
The test object is placed in a low noise enclosure Nor523.
The test object was set to A-weighting and S time-weighting. The
average of 10 samples is reported.
Indicated level: 20,0 dBA.
This test is for information only.
Test performed.
Readings:
1:19,8
2:19,9
3:20,0
4:19,8
5:20,1
6:20,2
7:20,0
8:19,9
9:20,2
10:20,1
```

Self-generated noise - IEC 61672-3 Ed.1 #10.2

Network	Level (dB)	Comment
A	14,3	Equivalent capacity
C	14,8	Equivalent capacity
Z	15,0	Equivalent capacity

Test Passed

Measurements performed by

Street address: Gunnersbråtan 2, N-3408 Tranby, Norway
Tel.: +47 32858900 email: nel@norsonic.com

Norsonic

Certificate No.: CAL 022-2021-13920

Acoustical signal tests of a frequency weighting - IEC 61672-3 Ed.1 #11

C-Weighted results

Frequency	SLM Meas (dB)	SLM U (dB)	Microphone Corr (dB)	Microphone U (dB)	Case Refl. Corr (dB)	Case Refl. U (dB)	Wind Screen Corr (dB)	Wind Screen U (dB)	Uncert (dB)	Lim (dB)	Result (dB)	
125 Hz	-0,5	0,2	0,0	0,1	0,0	0,1			0,2	+-1.5	-0,5	P
1 kHz	0,0	0,1	0,1	0,2	0,1	0,1			0,2	+-1.1	0,0	P
8 kHz	-3,9	0,2	2,8	0,2	0,0	0,3			0,4	+2.1/-3.1	-1,1	P

The level obtained at 1 kHz was used as reference for the calculations.
This level was: 93,67 dB.
The overall frequency response of the sound level meter, nominal case reflections and microphone response has shown to conform with the requirements in IEC 61672-3 for a class 1 sound level meter.
Frequency response test using multi frequency calibrator.
Sources for correction data:

Calibrator levels and uncertainty:	Norsonic - NCL
Microphone field corrections and uncertainty:	Norsonic - NCL
Case reflections and uncertainty:	Norsonic AS
Wind screen corrections and uncertainty:	

Test Passed

Electrical signal tests of frequency weightings - IEC 61672-3 Ed.1 #12

A-Weighted results:

Frequency	SLM Meas (dB)	SLM U (dB)	Microphone Corr (dB)	Microphone U (dB)	Case Refl. Corr (dB)	Case Refl. U (dB)	Wind Screen Corr (dB)	Wind Screen U (dB)	Uncert (dB)	Lim (dB)	Result (dB)	
63 Hz	0,0	0,1	0,0	0,1	0,0	0,1			0,17	+-1.5	0,0	P
125 Hz	-0,1	0,1	0,0	0,1	0,0	0,1			0,17	+-1.5	-0,1	P
250 Hz	-0,1	0,1	0,0	0,1	0,1	0,1			0,17	+-1.4	0,0	P
500 Hz	-0,1	0,1	0,0	0,1	0,2	0,1			0,17	+-1.4	0,1	P
1 kHz	0,0	0,1	0,1	0,2	0,1	0,1			0,24	+-1.1	-0,2	P
2 kHz	0,1	0,1	0,0	0,3	0,3	0,2			0,37	+-1.6	0,2	P
4 kHz	0,1	0,1	0,2	0,4	0,3	0,2			0,46	+-1.6	0,0	P
8 kHz	-0,1	0,1	0,2	0,5	0,0	0,3			0,59	2.1/3.1	0,3	P
16 kHz	0,0	0,1	-4,7	0,6	0,3	0,3			0,68	3.5/17	4,4	P

C-Weighted results:

Frequency	SLM Meas (dB)	SLM U (dB)	Microphone Corr (dB)	Microphone U (dB)	Case Refl. Corr (dB)	Case Refl. U (dB)	Wind Screen Corr (dB)	Wind Screen U (dB)	Uncert (dB)	Lim (dB)	Result (dB)	
63 Hz	0,1	0,1	0,0	0,1	0,0	0,1			0,17	+-1.5	-0,1	P
125 Hz	0,0	0,1	0,0	0,1	0,0	0,1			0,17	+-1.5	0,0	P
250 Hz	0,1	0,1	0,0	0,1	0,1	0,1			0,17	+-1.4	0,0	P
500 Hz	0,0	0,1	0,0	0,1	0,2	0,1			0,17	+-1.4	0,2	P
1 kHz	0,0	0,1	0,1	0,2	0,1	0,1			0,24	+-1.1	-0,2	P
2 kHz	-0,1	0,1	0,0	0,3	0,3	0,2			0,37	+-1.6	0,2	P
4 kHz	-0,1	0,1	-0,2	0,4	0,3	0,2			0,46	+-1.6	0,0	P
8 kHz	-0,1	0,1	-0,2	0,5	0,0	0,3			0,59	2.1/3.1	-0,3	P
16 kHz	-0,1	0,1	-4,7	0,6	0,3	0,3			0,68	3.5/17	-4,5	P

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Z Weighted results:

Frequency	SLM Meas (dB)	SLM U (dB)	Microphone Corr (dB)	Microphone U (dB)	Case Refl. Corr (dB)	Case Refl. U (dB)	Wind Screen Corr (dB)	Wind Screen U (dB)	Uncert (dB)	Lim (dB)	Result (dB)	
63 Hz	0,0	0,1	0,0	0,1	0,0	0,1			0,17	+ 1,5	0,0	P
125 Hz	0,0	0,1	0,0	0,1	0,0	0,1			0,17	+ 1,5	0,0	P
250 Hz	-0,1	0,1	0,0	0,1	0,1	0,1			0,17	+ 1,4	0,0	P
500 Hz	0,0	0,1	0,0	0,1	0,2	0,1			0,17	+-1,4	0,2	P
1 kHz	0,0	0,1	-0,1	0,2	-0,1	0,1			0,24	+-1,1	-0,2	P
2 kHz	-0,1	0,1	0,0	0,3	0,3	0,2			0,37	+-1,6	0,2	P
4 kHz	-0,1	0,1	-0,2	0,4	0,3	0,2			0,46	+-1,6	0,0	P
8 kHz	-0,1	0,1	-0,2	0,5	0,0	0,3			0,59	2,1/3,1	-0,3	P
16 kHz	-0,1	0,1	4,7	0,6	0,3	0,3			0,68	3,5/17	-4,5	P

The nominal frequency response of Norsonic / 1228 has been used for the calculations.

The overall frequency response of the sound level meter, nominal case reflections and microphone response has shown to conform with the requirements in IEC 61672-3 for a class 1 sound level meter.

The calculated uncertainties are checked against the requirements in the standard.

Sources for correction data:

Microphone response and uncertainty: Norsonic AS

Case reflections and uncertainty: Norsonic AS

Test Passed

Frequency weightings: A Network - IEC 61672-3 Ed.1 #12.3

Frequency (Hz)	Ref. (dB)	Meas. (dB)	Uncert. (dB)	Dev. (dB)
63,1	92,0	92,0	0,1	0,0
125,9	92,0	91,9	0,1	-0,1
251,2	92,0	91,9	0,1	-0,1
501,2	92,0	91,9	0,1	0,1
1000,0	92,0	92,0	0,1	0,0
1995,3	92,0	91,9	0,1	-0,1
3981,1	92,0	91,9	0,1	0,1
7943,3	92,0	91,9	0,1	0,1
15848,9	92,0	92,0	0,1	0,0

Test Passed

Frequency weightings: C Network - IEC 61672-3 Ed.1 #12.3

Frequency (Hz)	Ref. (dB)	Meas. (dB)	Uncert. (dB)	Dev. (dB)
63,1	92,0	91,9	0,1	-0,1
125,9	92,0	92,0	0,1	0,0
251,2	92,0	91,9	0,1	-0,1
501,2	92,0	92,0	0,1	0,0
1000,0	92,0	92,0	0,1	0,0
1995,3	92,0	91,9	0,1	-0,1
3981,1	92,0	91,9	0,1	-0,1
7943,3	92,0	91,9	0,1	-0,1
15848,9	92,0	91,9	0,1	-0,1

Test Passed

Norsonic

Certificate No.: CAL 022-2021-13920

Frequency weightings: Z Network - IEC 61672-3 Ed.1 #12.3

Frequency (Hz)	Ref. (dB)	Meas. (dB)	Uncert. (dB)	Dev. (dB)
63,1	92,0	92,0	0,1	0,0
125,9	92,0	92,0	0,1	0,0
251,2	92,0	91,9	0,1	-0,1
501,2	92,0	92,0	0,1	0,0
1000,0	92,0	92,0	0,1	0,0
1995,3	92,0	91,9	0,1	-0,1
3981,1	92,0	91,9	0,1	-0,1
7943,3	92,0	91,9	0,1	-0,1
15848,9	92,0	91,9	0,1	0,1

Test Passed

Frequency and time weightings at 1 kHz IEC 61672-3 Ed.1 #13

Weightings Time	Netw	Ref. (dB)	Measured (dB)	Tol. (dB)	(dB)	Uncert. (dB)	Dev. (dB)	Result
Fast	A	114,0	114,0	0,4	-0,4	0,1	0,0	P
Fast	C	114,0	114,0	0,4	0,4	0,1	0,0	P
Fast	Z	114,0	114,0	0,4	0,4	0,1	0,0	P
Fast	Flat	114,0	114,0	0,4	-0,4	0,1	0,0	P
Slow	A	114,0	114,0	0,3	-0,3	0,1	0,0	P
Leq	A	114,0	114,0	0,3	-0,3	0,1	0,0	P
SEL	A	124,0	124,0	0,3	-0,3	0,1	0,0	P

Test Passed

Level linearity on the reference level range - IEC 61672-3 Ed.1 #14

Ref. (dB)	Measured (dB)	Tol. (dB)	(dB)	Uncert. (dB)	Dev. (dB)	Result
Measured at 31.5 Hz						
94,0	94,0	1,1	-1,1	0,1	0,0	P
95,0	95,0	1,1	-1,1	0,1	0,0	P
96,0	96,0	1,1	-1,1	0,1	0,0	P
97,0	97,0	1,1	-1,1	0,1	0,0	P
94,0	94,0	1,1	-1,1	0,1	0,0	P
89,0	89,1	1,1	-1,1	0,1	0,1	P
84,0	84,1	1,1	-1,1	0,1	0,1	P
79,0	79,1	1,1	-1,1	0,1	0,1	P
74,0	74,1	1,1	-1,1	0,1	0,1	P
69,0	69,1	1,1	-1,1	0,1	0,1	P
64,0	64,1	1,1	-1,1	0,1	0,1	P
59,0	59,0	1,1	-1,1	0,1	0,0	P
54,0	54,0	1,1	-1,1	0,1	0,0	P
49,0	49,1	1,1	-1,1	0,1	0,1	P
44,0	44,1	1,1	-1,1	0,1	0,1	P
40,0	40,0	1,1	-1,1	0,1	0,0	P
39,0	39,0	1,1	-1,1	0,1	0,0	P
38,0	38,0	1,1	-1,1	0,1	0,0	P
37,0	37,1	1,1	-1,1	0,1	0,1	P
36,0	36,0	1,1	-1,1	0,1	0,0	P
35,0	35,1	1,1	-1,1	0,1	0,1	P
Measured at 1 kHz						
114,0	114,0	1,1	-1,1	0,1	0,0	P
119,0	119,0	1,1	-1,1	0,1	0,0	P
124,0	124,0	1,1	-1,1	0,1	0,0	P
129,0	129,0	1,1	-1,1	0,1	0,0	P
132,0	132,0	1,1	-1,1	0,1	0,0	P
133,0	133,0	1,1	-1,1	0,1	0,0	P
134,0	134,0	1,1	-1,1	0,1	0,0	P
135,0	135,0	1,1	1,1	0,1	0,0	P

136,0	136,0	1,1	-1,1	0,1	0,0	P
114,0	114,0	1,1	-1,1	0,1	0,0	P
109,0	109,0	1,1	-1,1	0,1	0,0	P
104,0	104,0	1,1	-1,1	0,1	0,0	P
99,0	99,0	1,1	-1,1	0,1	0,0	P
94,0	94,0	1,1	-1,1	0,1	0,0	P
89,0	89,0	1,1	-1,1	0,1	0,0	P
84,0	84,0	1,1	-1,1	0,1	0,0	P
79,0	79,0	1,1	-1,1	0,1	0,0	P
74,0	74,0	1,1	-1,1	0,1	0,0	P
69,0	69,0	1,1	-1,1	0,1	0,0	P
64,0	64,0	1,1	-1,1	0,1	0,0	P
59,0	59,0	1,1	-1,1	0,1	0,0	P
54,0	54,0	1,1	-1,1	0,1	0,0	P
49,0	49,0	1,1	-1,1	0,1	0,0	P
44,0	44,0	1,1	-1,1	0,1	0,0	P
40,0	40,0	1,1	-1,1	0,1	0,0	P
39,0	39,0	1,1	-1,1	0,1	0,0	P
38,0	38,0	1,1	-1,1	0,1	0,0	P
37,0	37,0	1,1	-1,1	0,1	0,0	P
36,0	36,0	1,1	-1,1	0,1	0,0	P
35,0	35,0	1,1	-1,1	0,1	0,0	P

Measured at 8 kHz

114,0	114,0	1,1	-1,1	0,1	0,0	P
119,0	119,0	1,1	-1,1	0,1	0,0	P
124,0	124,1	1,1	-1,1	0,1	0,1	P
129,0	129,0	1,1	-1,1	0,1	0,0	P
132,0	132,0	1,1	-1,1	0,1	0,0	P
133,0	133,0	1,1	-1,1	0,1	0,0	P
134,0	134,0	1,1	-1,1	0,1	0,0	P
135,0	135,0	1,1	-1,1	0,1	0,0	P
136,0	136,1	1,1	1,1	0,1	0,1	P
114,0	114,0	1,1	1,1	0,1	0,0	P
109,0	109,0	1,1	1,1	0,1	0,0	P
104,0	104,0	1,1	-1,1	0,1	0,0	P
99,0	99,0	1,1	-1,1	0,1	0,0	P
94,0	94,0	1,1	-1,1	0,1	0,0	P
89,0	89,0	1,1	-1,1	0,1	0,0	P
84,0	84,0	1,1	-1,1	0,1	0,0	P
79,0	79,0	1,1	-1,1	0,1	0,0	P
74,0	74,0	1,1	-1,1	0,1	0,0	P
69,0	69,0	1,1	1,1	0,1	0,0	P
64,0	64,0	1,1	1,1	0,1	0,0	P
59,0	59,0	1,1	1,1	0,1	0,0	P
54,0	54,0	1,1	1,1	0,1	0,0	P
49,0	49,0	1,1	1,1	0,1	0,0	P
44,0	44,0	1,1	-1,1	0,1	0,0	P
40,0	40,0	1,1	-1,1	0,1	0,0	P
39,0	39,0	1,1	-1,1	0,1	0,0	P
38,0	38,0	1,1	-1,1	0,1	0,0	P
37,0	37,0	1,1	-1,1	0,1	0,0	P
36,0	36,1	1,1	-1,1	0,1	0,1	P
35,0	35,1	1,1	-1,1	0,1	0,1	P

Test Passed

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Toneburst response - IEC 61672-3 Ed.1 #16

Burst type	Ref. (dB)	Measured (dB)	Tol. (dB)	Tol. (dB)	Uncert. (dB)	Dev. (dB)	Result
Fast 200 mSec	133,0	132,9	0,8	-0,8	0,2	-0,1	P
Fast 2.0 mSec	116,0	115,7	1,3	-1,8	0,2	-0,3	P
Fast 0.25 mSec	107,0	106,3	1,3	-3,3	0,2	-0,7	P
Slow 200 mSec	126,6	126,5	0,8	-0,8	0,2	-0,1	P
Slow 2.0 mSec	107,0	106,9	1,3	-3,3	0,2	-0,1	P
SEL 200 mSec	127,0	126,9	0,8	-0,8	0,2	-0,1	P
SEL 2.0 mSec	107,0	106,9	1,3	-1,8	0,2	-0,1	P
SEL 0.25 mSec	98,0	97,4	1,3	3,3	0,2	-0,6	P

Test Passed

Peak C sound level - IEC 61672-3 Ed.1 #17

Pulse Type	Pulse Freq. (Hz)	Ref. RMS (dB)	Ref. Peak (dB)	Measured Value (dB)	Tol. (+/-dB)	Uncert. (dB)	Dev. (dB)	Result
1 cycle	8k	129,0	132,4	132,0	2,4	0,2	-0,4	P
Pos 1/2 cycle	500	132,0	134,4	134,4	1,4	0,2	0,0	P
Neg 1/2 cycle	500	132,0	134,4	134,3	1,4	0,2	-0,1	P

Test Passed

Overload indication - IEC 61672-3 Ed.1 #18

	Measured (dB)	Tol. (+/-dB)	Uncert. (dB)	Result
Level difference of positive and negative pulses:	0,2	1.8	0.2	P
Positive 1/2 cycle 4 kHz. Overload occurred at:	142,1			
Negative 1/2 cycle 4 kHz. Overload occurred at:	142,3			

Test Passed

Measurements performed by

NCL NORSONIC CALIBRATION LABORATORY

Street address: Gunnersbråtan 2, N-3408 Tranby, Norway
Tel.: +47 32858900 email: ncl@norsonic.com

Appendix T

Equipment Inventory List

Proposed Downtown Line 2 Extension (DTL2e) - Proposed Reception Track Cut & Cover Terminal

Activity by sequence [General activity in sequence]	[Typical construction activity for each general activity]	PME [Breakdown of all Construction Equipment used for that particular construction activity]	No [Quantity of that particular construction equipment used for that particular construction activity]	On-time(%) / daily working hours [how long in percentage that particular equipment will be used in a day]	Approximate no of months for this activity [in months]	Working hours per day [please indicate the working hours of every phase . Eg., 7am to 7pm, 6am to 10pm or 24 hrs]	ID	LAeq(12 hours) Day Time (7am-7pm) Equipment No.	On-time(%) / daily working hours	PWL, dB(A)	10^(Lw/10)	Max. Reduction Level in dB(A)	PWL, dB(A)	10^(Lw/10)
1. Clearance for Construction Area - 3 months (from Q3 2025 - Q3 2025)												with Movable Barrier		
1	Site Clearance and Earthworks to prepare platform	Excavator	1	80%	6	e.g. 7am to 7pm	E	1	80%	105	31848573644	-10	95.0309	3.185E+09
		Lorry	2	80%	6		LZ	2	80%	110	1.00953E+11	-10	100	1.01E+10
		Generator	1	80%	6		G	1	80%	105	31848573644	-15	90.0309	1.007E+09
		Front end loader	1	50%	6		FL	1	50%	110	99763115748		109.9897	9.976E+10
		Lorry Cranes	1	50%	6		LC	1	50%	95	3154786722	-5	89.9897	997631157
		Air Compressor	1	80%	6		C	1	80%	102	15962098520	-15	87.0309	504765876
2	Construction Access	Lorry	1	80%	6		LZ	1	80%	107	50476587558	-10	97.0309	5.048E+09
		Excavator	1	80%	6		E	1	80%	105	31848573644	-10	95.0309	3.185E+09
2. Excavation to Work Platform Level - 14 months (from Q4 2026 - Q4 2027)											116			111
1	for ECM supply	Generator	1	100%	14	e.g. 7am to 7pm	G	1	100%	106	39810717055	-15	91	1.259E+09
2	Removal of Spoils and delivery of Hard Core	Dump Truck	1	30%	14		DT	1	30%	102	15035617009	-10	91.771213	1.504E+09
3	Levelling of working platform	Front end loader	1	30%	14		FL	1	30%	108	59857869449		107.77121	5.986E+10
4	Excavation to platform level & ECM trenches	Excavator	3	80%	14		E	3	80%	110	95545720933	-10	100	9.555E+09
5	Platform preparation	Roller	1	40%	14		R	1	40%	97	5035701647		97.0206	5.036E+09
6	Delivery of Steel plates and materials	Lorry Cranes	1	50%	14		LC	1	50%	95	3154786722	-5	89.9897	997631157
7	Spoil removal	Dump Truck	3	50%	14		DT	3	50%	109	75178085044	-10	99	7.518E+09
3 Temporary work - Installation of D Wall, Sheet Pile -10 months (from Q3 2026 - Q4 2027)											115			109
1	Solder pile	Sheet Pile Rig	2	80%	10	e.g. 7am to 7am	BPM	2	80%	119	8.019E+11		119	8.019E+11
2	To Hoist Tremie Pipe & Re-bar D wall Cages	Truck Mounted Crane	1	80%	10		TC	1	80%	97	5047658756	-5	92.0309	1.596E+09
3	Handle tremie pipe & re-bar	Mobile Crane	1	80%	10		MC	1	80%	109	80000000000	-5	104.0309	2.53E+10
4	For casting wall	Ready Mix Concrete Truck	1	50%	10		RMC	1	50%	105	31547867224	-10	94.9897	3.155E+09
5	Concreting works	Concrete pump	1	50%	10		CP	1	50%	103	19905358528	-15	87.9897	629462706
6	Batching Plant	Colloidal Mixer (bentonite)			10		CM		80%			-10	-10	
		Compressor			10		C		80%				0	
		Generator			10		G		80%				0	
		Ripple Screen (included in STP)	1	80%	10		RS		80%				0	
		Measuring Tank & Agitator			10		MT		80%				0	
		Slurry Pump			10		SP		80%				0	
		Clean Water Tanks			10		CWT	1	80%	107	50476587558		107.0309	5.048E+10
		Bentonite Slurry Tanks			10		BST		80%				0	
7	Earth Removal from Tanks	Excavator	1	50%	10		E	1	50%	103	19905358528	-10	92.9897	1.991E+09
8	Spoil & slurry disposal	Dump Truck	1	50%	10		DT	1	50%	104	25059361681	-10	93.9897	2.506E+09
4. Installation of Wallers & Struts/Stage excavation - 14 months (from Q4 2026 - Q4 2027)											114			109
1	Hot works - welding of steel beams, brackets, etc	Welding Equipment	1	80%	14	e.g. 7am to 7pm	WE	1	80%	100	10071403294		100.0309	1.007E+10
2	Delivery ofSteel sections	40 ft Trailer	1	50%	14		TT	1	50%	105	31547867224		104.9897	3.155E+10
3	Hoisting of Waler & Struts	Mobile Crane	1	80%	14		MC	1	80%	109	80000000000	-5	104.0309	2.53E+10
4	Stage excavation for walers & struts	Crane	1	80%	14		CR	1	80%	97	5047658756	-5	92.0309	1.596E+09
5	Stage Excavation	Excavator	1	80%	14		E	1	80%	105	31848573644	-10	95.0309	3.185E+09
6	Stage Excavation	Mini Excavator	1	80%	14		ME	1	80%	95	3184857364	-10	85.0309	318485736
7	Spoi and slurry removal	Dump truck	1	80%	14		DT	1	80%	106	40094978690	-10	96.0309	4.009E+09
5. Construction of Permanent Structure - 7 months (from Q1 2028 - Q3 2028)											113			109
1	Pumping of water from ground or rain	Temporary Water Pump	2	100%	7	e.g. 7am to 7pm	TWP	2	100%	96	3990524630	-10	86	399052463
2	Power supply for lighting , pumps and temporary ventilation fans	Generator	1	100%	7		G	1	100%	106	39810717055	-15	91	1.259E+09
3	Excavation below surface for working platform	Excavator	1	50%	7		E	1	50%	103	19905358528	-10	92.9897	1.991E+09
4	Stage Excavation to prepare Lean concrete	Mini Excavator	1	80%	7		ME	1	80%	95	3184857364	-10	85.0309	318485736
5	Excavation below surface - removal of spoil	Crane	1	50%	7		CR	1	50%	95	3154786722	-5	89.9897	997631157
6	Spoil removal	Dump Truck	1	50%	7		DT	1	50%	104	25059361681	-10	93.9897	2.506E+09
7	Air compressor for cleaning formwork before casting	Compressor	1	50%	7		C	1	50%	100	9976311575	-15	84.9897	315478672
8	Handle re-bar & hoisting of false work, scaffolding, temporary working platforms	Mobile Crane	1	50%	7		MC	1	50%	107	50000000000	-5	101.9897	1.581E+10
9	For Casting	Ready Mix Concrete Truck	1	50%	7		RMC	1	50%	104	25059361681	-10	93.9897	2.506E+09
10	For Casting	Concrete pump	1	50%	7		CP	1	50%	103	19905358528	-15	87.9897	629462706
6. Resintatement of Work & Exiting Road - 3 months (from Q3 2028 - Q3 2028)											113			104
1	Levelling of road subbase, base	Excavator	1	80%	3	e.g. 7am to 7pm	E	1	80%	105	31848573644	-10	95.0309	3.185E+09
2	Road compaction	Roller	1	80%	3		R	1	80%	100	10071403294		100.0309	1.007E+10
3	Levelling works	Front end loader	1	80%	3		FL	1	80%	112	1.59621E+11		112.0309	1.596E+11
4	Delivery of Mill (Premix)	Dump Truck	1	80%	3		DT	1	80%	106	40094978690	-10	96.0309	4.009E+09
5	Levelling	Grader	1	80%	3		GR	1	80%	105	31848573644		105.0309	3.185E+10
6	Asphalt laying	Asphalt Paver	1	80%	3		AP	1	80%	111	1.26791E+11		111.0309	1.268E+11
7. Landscape Works - 3 months (from Q3 2028 - Q3 2028)											116			115
1	Landscape works	Generator	3	80%	3	e.g. 7am to 7pm	G	3	80%	110	95545720933	-15	95	3.021E+09
		Excavator	3	50%	3		E	3	50%	108	59716075583	-10	98	5.972E+09
		Mobile Crane, 50T	3	50%	3		M	3	50%	97	4743416490	-5	92	1.5E+09
		welding/cutting equipment	3	50%	3		WE	3	50%	103	18883881177		103	1.888E+10
8. Remove all temporary works and re-instatement - 6 months (from Q3 2028 - Q1 2029)											113			105
1	Removal of ERSS	Generator	3	50%	6	e.g. 7am to 7pm	G	3	50%	108	59716075583	-15	93	1.888E+09
		Excavator mounted sheetpile vibrator	3	50%	6		EVD	3	50%	118	5.97161E+11	-10	108	5.972E+10
		Mobile Crane, 50T	3	50%	6		M	3	50%	97	4743416490	-5	92	1.5E+09
		Welding/Cutting equipment	3	50%	6		WE	3	50%	103	18883881177		103	1.888E+10
2	Reininstate working area to original condition or required condition	Lorry	3	50%	6		LZ	3	50%	110	94643601672	-10	100	9.464E+09
											119			110

ID	LAeq(5 mins) Day Time (7am-7pm) Equipment No.	On-time(%) / daily working hours	PWL, dB(A)	10^(Lw/10)	Max. Reduction Level in dB(A)	PWL, dB(A)	10^(Lw/10)
					with Movable Barrier		
E	1	100%	106	3.981E+10	-10	96	3.981E+09
LZ	2	100%	111.0103	1.262E+11	-10	101	1.262E+10
G	1	100%	106	3.981E+10	-15	91	1.259E+09
FL	1	100%	113	1.995E+11		113	1.995E+11
LC	1	100%	98	6.31E+09	-5	93	1.995E+09
C	1	100%	103	1.995E+10	-15	88	630957344
LZ	1	100%	108	6.31E+10	-10	98	6.31E+09
E	1	100%	106	3.981E+10	-10	96	3.981E+09
				117			114
G	1	100%	106	3.981E+10	-15	91	1.259E+09
DT	1	100%	107	5.012E+10	-10	97	5.012E+09
FL	1	100%	113	1.995E+11		113	1.995E+11
E	3	100%	111	1.194E+11	-10	101	1.194E+10
R	1	100%	101	1.259E+10		101	1.259E+10
LC	1	100%	98	6.31E+09	-5	93	1.995E+09
DT	3	100%	112	1.504E+11	-10	102	1.504E+10
				118			114
BPM	2	100%	120	1.002E+12		120	1.002E+12
TC	1	100%	98	6.31E+09	-5	93	1.995E+09
MC	1	100%	110	1E+11	-5	105	3.162E+10
RMC	1	100%	108	6.31E+10	-10	98	6.31E+09
CP	1	100%	106	3.981E+10	-15	91	1.259E+09
CM		100%			-10	-10	
C		100%				0	
G		100%				0	
RS		100%				0	
MT		100%				0	
SP		100%				0	
CWT	1	100%	108	6.31E+10		108	6.31E+10
BST		100%				0	
E	1	100%	106	3.981E+10	-10	96	3.981E+09
DT	1	100%	107	5.012E+10	-10	97	5.012E+09
				116			111
WE	1	100%	101	1.259E+10		101	1.259E+10
TT	1	100%	108	6.31E+10		108	6.31E+10
MC	1	100%	110	1E+11	-5	105	3.162E+10
CR	1	100%	98	6.31E+09	-5	93	1.995E+09
E	1	100%	106	3.981E+10	-10	96	3.981E+09
ME	1	100%	96	3.981E+09	-10	86	398107171
DT	1	100%	107	5.012E+10	-10	97	5.012E+09
				114			111
TWP	2	100%	96	3.991E+09	-10	86	399052463
G	1	100%	106	3.981E+10	-15	91	1.259E+09
E	1	100%	106	3.981E+10	-10	96	3.981E+09
ME	1	100%	96	3.981E+09	-10	86	398107171
CR	1	100%	98	6.31E+09	-5	93	1.995E+09
DT	1	100%	107	5.012E+10	-10	97	5.012E+09
C	1	100%	103	1.995E+10	-15	88	630957344
MC	1	100%	110	1E+11	-5	105	3.162E+10
RMC	1	100%	107	5.012E+10	-10	97	5.012E+09
CP	1	100%	106	3.981E+10	-15	91	1.259E+09
				115			107
E	1	100%	106	3.981E+10	-10	96	3.981E+09
R	1	100%	101	1.259E+10		101	1.259E+10
FL	1	100%	113	1.995E+11		113	1.995E+11
DT	1	100%	107	5.012E+10	-10	97	5.012E+09
GR	1	100%	106	3.981E+10		106	3.981E+10
AP	1	100%	112	1.585E+11		112	1.585E+11
				117			116
G	3	100%	111	1.194E+11	-15	96	3.777E+09
E	3	100%	111	1.194E+11	-10	101	1.194E+10
M	3	100%	100	9.487E+09	-5	95	3E+09
WE	3	100%	106	3.777E+10		106	3.777E+10
				115			108
G	3	100%	111	1.194E+11	-15	96	3.777E+09
EVD	3	100%	121	1.194E+12	-10	111	1.194E+11
M	3	100%	100	9.487E+09	-5	95	3E+09
WE	3	100%	106	3.777E+10		106	3.777E+10
LZ	3	100%	113	1.893E+11	-10	103	1.893E+10
				122			113

Night-time blocks (all rows of sections 1, 2 and 4–8 read NA in every night-time column, and NA in both 10^(Lw/10) columns on their subtotal rows):

ID	LAeq(12 hours) Night Time (7pm-7am) Equipment No.	On-time(%) / daily working hours	PWL, dB(A)	10^(Lw/10)	Max. Reduction Level in dB(A)	PWL, dB(A)	10^(Lw/10)	LAeq(1 hour) Night Time (7pm-10pm) Equipment No.	On-time(%) / daily working hours	PWL, dB(A)	10^(Lw/10)	Max. Reduction Level in dB(A)	PWL, dB(A)	10^(Lw/10)	LAeq(1 hour) Night Time (10pm-7am) Equipment No.	On-time(%) / daily working hours	PWL, dB(A)	10^(Lw/10)	Max. Reduction Level in dB(A)	PWL, dB(A)	10^(Lw/10)
					with Movable Barrier							with Movable Barrier							with Movable Barrier		
BPM	2	80%	119	8.019E+11		119	8.019E+11	2	100%	120	1.00237E+12		120	1.002E+12	2	100%	120	1.00237E+12		120	1.002E+12
TC	1	80%	97	5047658756	-5	92.0309	1.596E+09	1	100%	98	6309573445	-5	93	1.995E+09	1	100%	98	6309573445	-5	93	1.995E+09
MC	1	80%	109	80000000000	-5	104.0309	2.53E+10	1	100%	110	1E+11	-5	105	3.162E+10	1	100%	110	1E+11	-5	105	3.162E+10
RMC	1	50%	105	31547867224	-10	94.9897	3.155E+09	1	70%	106	44167014114	-10	96.45098	4.417E+09	1	70%	106	44167014114	-10	96.45098	4.417E+09
CP	1	50%	103	19905358528	-15	87.9897	629462706	1	70%	104	27867501939	-15	89.45098	881247788	1	70%	104	27867501939	-15	89.45098	881247788
CM		80%			-10	-10			100%			-10	-10			100%			-10	-10	
C		80%				0			100%				0			100%				0	
G		80%				0			100%				0			100%				0	
RS		80%				0			100%				0			100%				0	
MT		80%				0			100%				0			100%				0	
SP		80%				0			100%				0			100%				0	
CWT	1	80%	107	50476587558		107.0309	5.048E+10	1	100%	108	63095734448		108	6.31E+10	1	100%	108	63095734448		108	6.31E+10
BST		80%				0			100%				0			100%				0	
E	1	50%	103	19905358528	-10	92.9897	1.991E+09	1	70%	104	27867501939	-10	94.45098	2.787E+09	1	70%	104	27867501939	-10	94.45098	2.787E+09
DT	1	50%	104	25059361681	-10	93.9897	2.506E+09	1	70%	105	35083106354	-10	95.45098	3.508E+09	1	70%	105	35083106354	-10	95.45098	3.508E+09
				114			109				115			110				115			110

ID	LAeq(5 mins) Night Time (7pm-10pm) Equipment No.	On-time(%) / daily working hours	PWL, dB(A)	10^(Lw/10)	Max. Reduction Level in dB(A)	PWL, dB(A)	10^(Lw/10)	LAeq(5 mins) Night Time (10pm-7am) Equipment No.	On-time(%) / daily working hours	PWL, dB(A)	10^(Lw/10)	Max. Reduction Level in dB(A)	PWL, dB(A)	10^(Lw/10)
					with Movable Barrier							with Movable Barrier		
BPM	2	100%	120	1.002E+12		120	1.002E+12	2	100%	120	1.002E+12		120	1.002E+12
TC	1	100%	98	6.31E+09	-5	93	1.995E+09	1	100%	98	6.31E+09	-5	93	1.995E+09
MC	1	100%	110	1E+11	-5	105	3.162E+10	1	100%	110	1E+11	-5	105	3.162E+10
RMC	1	100%	108	6.31E+10	-10	98	6.31E+09	1	100%	108	6.31E+10	-10	98	6.31E+09
CP	1	100%	106	3.981E+10	-15	91	1.259E+09	1	100%	106	3.981E+10	-15	91	1.259E+09
CM		100%			-10	-10			100%			-10	-10	
C		100%				0			100%				0	
G		100%				0			100%				0	
RS		100%				0			100%				0	
MT		100%				0			100%				0	
SP		100%				0			100%				0	
CWT	1	100%	108	6.31E+10		108	6.31E+10	1	100%	108	6.31E+10		108	6.31E+10
BST		100%				0			100%				0	
E	1	100%	106	3.981E+10	-10	96	3.981E+09	1	100%	106	3.981E+10	-10	96	3.981E+09
DT	1	100%	107	5.012E+10	-10	97	5.012E+09	1	100%	107	5.012E+10	-10	97	5.012E+09
				116			111				116			111

Proposed Downtown Line 2 Extension (DTL2e) - Proposed Potential Future Infrastructure

Activity by sequence [General activity in sequence]	[Typical construction activity for each general activity]	PME [Breakdown of all Construction Equipment used for that particular construction activity]	No [Quantity of that particular construction equipment used for that particular construction activity]	On-time(%) / daily working hours [how long in percentage that particular equipment will be used in a day]	Approximate no of months for this activity [in months]	Working hours per day [please indicate the working hours of every phase . Eg., 7am to 7pm, 6am to 10pm or 24 hrs]	ID	LAeq(12 hours) Day Time (7am-7pm) Equipment No.	On-time(%) / daily working hours	PWL, dB(A)	10^(Lw/10)	Max. Reduction Level in dB(A)	PWL, dB(A)	10^(Lw/10)	LAeq(5 mins) Day Time (7am-7pm) Equipment No.	On-time(%) / daily working hours	PWL, dB(A)	10^(Lw/10)	Max. Reduction Level in dB(A)	PWL, dB(A)	10^(Lw/10)
1. Demolition												with Movable Barrier							with Movable Barrier		
1	Removal of abandon steel element, debris eg damage window frames,doors, internal & external building furnitures etc and delivery steel plates, scaffoldings and hoarding boards for Safety Nets & dust control curtains	Lorry Cranes	1	100%	1	e.g. 7am to 7pm	LC	1	100%	98	6309573445	-5	93	1995262315	1	100%	98	6.31E+09	-5	93	1995262315
2	Hacking of minor structure	Hand held Breaker	1	100%	0.5		PB	1	100%	111	1.25893E+11	-15	96	3981071706	1	100%	111	1.259E+11	-15	96	3981071706
3	Hacking of major structural on buildings	Excavator mounted with Breaker	2	100%	0.5		ER	2	100%	103	20000000000	-10	93	2000000000	2	100%	103	2E+10	-10	93	2000000000
4	Removal of foundation & spoils	Excavator	2	100%	0.5		E	2	100%	109	79621434111	-10	99	7962143411	2	100%	109	7.962E+10	-10	99	7962143411
5	Removal of Debris	Dump Trucks	2	100%	1		DT	2	100%	110	1.00237E+11	-10	100	10023744673	2	100%	110	1.002E+11	-10	100	10023744673
2. Clearance for Construction Area											115			104				115			104
1	Site Clearance and Earthworks to prepare platf	Excavator	1	100%	3	e.g. 7am to 7pm	E	1	100%	106	39810717055	-10	96	3981071706	1	100%	106	3.981E+10	-10	96	3981071706
		Lorry	1	100%	3		LZ	1	100%	108	63095734448	-10	98	6309573445	1	100%	108	6.31E+10	-10	98	6309573445
		Generator	1	100%	3		G	1	100%	106	39810717055	-15	91	1258925412	1	100%	106	3.981E+10	-15	91	1258925412
		Excavator	1	100%	3		E	1	100%	106	39810717055	-10	96	3981071706	1	100%	106	3.981E+10	-10	96	3981071706
		Concrete Vibrator	1	100%	3		V	1	100%	97	5011872336		97	5011872336	1	100%	97	5.012E+09		97	5011872336
		Air Compressor	1	100%	3		C	1	100%	103	19952623150	-15	88	630957344.5	1	100%	103	1.995E+10	-15	88	630957344.5
		Concrete truck	1	100%	3		RMC	1	100%	107	50118723363	-10	97	5011872336	1	100%	107	5.012E+10	-10	97	5011872336
2	Construction Access	Lorry	1	100%	3		LZ	1	100%	108	63095734448	-10	98	6309573445	1	100%	108	6.31E+10	-10	98	6309573445
		Excavator	1	100%	3		E	1	100%	106	39810717055	-10	96	3981071706	1	100%	106	3.981E+10	-10	96	3981071706
3. Foundation Work (Substructures including piles and pile caps) for above ground bridge structure - Per Pilecap											116			106				116			106
1	Sheet Piling	Sheet Pile Rig	1	80%	0.25	e.g. 7am to 7pm	G	1	80%	105	31848573644		105	31848573644	1	100%	106	3.981E+10		106	39810717055
2	Hot works - welding of steel beams, brackets, etc	Welding Equipment	1	10%	0.5		WE	1	10%	91	1258925412		91	1258925412	1	100%	101	1.259E+10		101	12589254118
3	Delivery of Steel sections	40 ft Trailer	1	10%	0.5		TT	1	10%	98	6309573445		98	6309573445	1	100%	108	6.31E+10		108	63095734448
4	Hoisting of Waler & Struts	Excavator with lifting appliance	1	10%	0.5		E	1	10%	96	3981071706	-10	86	398107170.6	1	100%	106	3.981E+10	-10	96	3981071706
5	Stage excavation for walers & struts	Excavator with lifting appliance	1	10%	0.5		E	1	10%	96	3981071706	-10	86	398107170.6	1	100%	106	3.981E+10	-10	96	3981071706
6	Stage Excavation	Mini Excavator	1	80%	0.5		ME	1	80%	95	3184857364	-10	85	318485736.4	1	100%	96	3.981E+09	-10	86	398107170.6
7	Spoil and slurry removal	Dump trucks	1	20%	0.5		DT	1	20%	100	10023744673	-10	90	1002374467	1	100%	107	5.012E+10	-10	97	5011872336
4. Superstructure											108			106				114			111
1	Delivery or rebar	40T Gantry Crane	2	100%	4	e.g. 7am to 7pm	CR	2	100%	101	12619146890	-5	96	3990524630	2	100%	101	1.262E+10	-5	96	3990524630
2	Handle re-bar & hoisting of false work, scaffold	Mobile Crane	2	100%	4		MC	2	100%	113	2E+11	-5	108	63245553203	2	100%	113	2E+11	-5	108	63245553203
3	Pier - Concrete	Ground crane	2	100%	4		CR	2	100%	101	12619146890	-5	96	3990524630	2	100%	101	1.262E+10	-5	96	3990524630
4	Delivery of precast segments	Track	1	10%	2			1	10%				0							0	
5	Erection of segments by Lifting Frame	Lifting crane	2	10%	2		CR	2	10%	91	1261914689	-5	86	399052463	2	100%	101	1.262E+10	-5	96	3990524630
8	Handle re-bar & hoisting of false work, scaffold	Mobile Crane	2	100%	4		MC	2	100%	113	2E+11	-5	108	63245553203	2	100%	113	2E+11	-5	108	63245553203
9	For Casting	Ready Mix Concrete Truck	1	30%	4		RMC	1	30%	102	15035617009	-10	92	1503561701	1	100%	107	5.012E+10	-10	97	5011872336
		Concrete pump	1	30%	4		CP	1	30%	101	11943215117	-15	86	377677623.5	1	100%	106	3.981E+10	-15	91	1258925412
											117			111				117			112

Proposed Downtown Line 2 Extension (DTL2e) - Proposed Intermediate Station

Activity by sequence [General activity in sequence]	[Typical construction activity for each general activity]	PME [Breakdown of all Construction Equipment used for that particular construction activity]	No [Quantity of that particular construction equipment used for that particular construction activity]	On-time(%) / daily working hours [how long in percentage that particular equipment will be used in a day]	Approximate no of months for this activity [in months]	Working hours per day [please indicate the working hours of every phase . Eg., 7am to 7pm, 6am to 10pm or 24 hrs]	ID	Day Time (7am-7pm) Equipment No.
1. Clearance for Construction Area - 6 months (from Q2 2025 - Q3 2025)								
1	Site Clearance and Earthworks to prepare pl	Excavator	1	80%	6	e.g. 7am to 7pm	E	1
		Lorry	2	80%	6		LZ	2
		Generator	1	80%	6		G	1
		Front end loader	1	50%	6		FL	1
		Lorry Cranes	1	50%	6		LC	1
		Air Compressor	1	80%	6		C	1
2	Construction Access	Lorry	1	80%	6		LZ	1
		Excavator	1	80%	6		E	1
2. Excavation to Work Platform Level - 24 months (from Q2 2026 - Q2 2028)								
1	for ECM supply	Generator	1	100%	24	e.g. 7am to 7pm	G	1
2	Removal of Spoils and delivery of Hard Core	Dump Truck	1	30%	24		DT	1
3	Levelling of working platform	Front end loader	1	30%	24		FL	1
4	Excavation to platform level & ECM trenche	Excavator	3	80%	24		E	3
5	Platform preparation	Roller	1	40%	24		R	1
6	Delivery of Steel plates and materials	Lorry Cranes	1	50%	24		LC	1
7	Spoil removal	Dump Truck	3	50%	24		DT	3
3 Temporary work - Installation of D Wall, Sheet Pile - 10 months (from Q4 2025 - Q4 2026)								
1	Excavation of D wall Trenches	D-wall rig with Grab	2	80%	10	e.g. 7am to 7am	DR	2
2	To Hoist Tremie Pipe & Re-bar D wall Cages	Truck Mounted Crane	1	80%	10		TC	1
3	Handle tremie pipe & re-bar	Mobile Crane	1	80%	10		MC	1
4	For casting wall	Ready Mix Concrete Truck	1	50%	10		RMC	1
5	Concreting works	Concrete pump	1	50%	10		CP	1
6	Batching Plant	Colloidal Mixer (bentonite)	1	80%	10		CM	0
		Compressor			10		C	0
		Generator			10		G	0
		Ripple Screen (included in STP)			10		RS	0
		Measuring Tank & Agitator			10		MT	0
		Slurry Pump			10		SP	0
		Clean Water Tanks			10		CWT	1
		Bentonite Slurry Tanks			10		BST	0
7	Earth Removal from Tanks	Excavator	1	50%	10		E	1
8	Spoil & slurry disposal	Dump Truck	1	50%	10		DT	1
4. Installation of Wallers & Struts/Stage excavation - 24 months (from Q2 2026 - Q2 2028)								
1	Hot works - welding of steel beams, bracket	Welding Equipment	1	80%	24	e.g. 7am to 7pm	WE	1
2	Delivery ofSteel sections	40 ft Trailer	1	50%	24		TT	1
3	Hoisting of Waler & Struts	Mobile Crane	1	80%	24		MC	1
4	Stage excavation for walers & struts	Crane	1	80%	24		CR	1
5	Stage Excavation	Excavator	1	80%	24		E	1
6	Stage Excavation	Mini Excavator	1	80%	24		ME	1
7	Spoi and slurry removal	Dump truck	1	80%	24		DT	1
5a. TBM (Launching Sg. Kadut Launch Shaft to Intermediate Station) - 18 months (from Q3 2026- Q1 2028)								
1	TBM- Assemble tunneling equipment	TBM & Gantries	2	50%	3	e.g. 7am to 7am	CR	2
		40T Gantry Crane	2	50%	3		CR	2
		30T Excavator	2	50%	3		ET	2
		Grout mixing plant	2	50%	3		GMP	2
		slurry separation plant	2	50%	3		BST	2
		Segment Delivery	2	50%	3		DT	2
		Muckaway truck	2	50%	3		DT	2
		Water chiller plant	2	50%	3		CH	2
		Ventilation air cooling plant	2	50%	3		AC	2
		Ventilation supply fans	2	50%	3		AC	2
		Shaft hoist	2	50%	3		SH	2
		Air compressor	2	50%	3		C	2
		Air Receiver	2	50%	3		C	2
		Air Chiller	2	50%	3		CH	2
		200 T crane	2	50%	3		CTT	2
5b.								
2	Lowering of TBM	Air compressor	1	50%	3		C	1
		Air Receiver	1	50%	3		C	1
		500 t crane	1	50%	3		CTTT	1
3	TBM Main Drive	TBM & Gantries	2	100%	18		CR	2
		40T Gantry Crane	2	100%	18		CR	2
		30T Excavator	2	100%	18		ET	2
		Grout mixing plant	2	100%	18		GMP	2
		slurry separation plant	2	100%	18		BST	2
		Segment Delivery	2	100%	18		DT	2
		Muckaway truck	2	100%	18		DT	2
		Water chiller plant	2	100%	18		CH	2
		Ventilation air cooling plant	2	100%	18		AC	2
		Ventilation supply fans	2	100%	18		AC	2
		Shaft hoist	2	100%	18		SH	2
		Air compressor	2	100%	18		C	2
		Air Receiver	2	100%	18		C	2
		Air Chiller	2	100%	18		CH	2
6. Construction of Permanent Structure - 20 months (from Q2 2028 - Q4 2029)								
1	Pumping of water from ground or rain	Tempoary Water Pump	2	100%	20	e.g. 7am to 7pm	TWP	2
2	Power supply for lighting , pumps and tem	Generator	1	100%	20		G	1
3	Excavation below surface for working platfo	Excavator	1	50%	20		E	1
4	Stage Excavation to prepare Lean concrete	Mini Excavator	1	80%	20		ME	1
5	Excavation below surface - removal of spoil	Crane	1	50%	20		CR	1
6	Spoil removal	Dump Truck	1	50%	20		DT	1
8	Air compressor for cleaning formwork befor	Compressor	1	50%	20		C	1
7	Handle re-bar & hoisting of false work, scaffolding, temporary working platforms	Mobile Crane	1	50%	20		MC	1
8	For Casting	Ready Mix Concrete Truck	1	50%	20		RMC	1
9	For Casting	Concrete pump	1	50%	20		CP	1
7. Resintatement of Work & Existing Road - 3 months (from Q4 2029 - Q4 2029)								
1	Levelling of road subbase, base	Excavator	1	80%	3	e.g. 7am to 7pm	E	1
2	Road compaction	Roller	1	80%	3		R	1
3	Levelling works	Front end loader	1	80%	3		FL	1
4	Delivery of Mill (Premix)	Dump Truck	1	80%	3		DT	1
5	Levelling	Grader	1	80%	3		GR	1
6	Asphalt laying	Asphalt Paver	1	80%	3		AP	1
8. Entrances - Construction of D Wall & Sheet piles - 6 months (from Q1 2027 - Q2 2028)								
1	Excavation of D wall Trenches	D-wall rig with Grab	1	80%	6	e.g. 7am to 7am	DR	1
2	To Hoist Tremie Pipe & Re-bar D wall Cages	Truck Mounted Crane	1	80%	6		TC	1
3	Handle tremie pipe & re-bar	Mobile Crane	1	80%	6		MC	1
2	For casting wall	Ready Mix Concrete Truck	1	80%	6		RMC	1
3	Concreting works	Concrete pump	1	80%	6		CP	1
4	Spoil & slurry disposal	Dump Truck	1	80%	6		DT	1
5	Delivery of rebar, sheel piles , king post, dec	40 ft Trailer	1	80%	6		TT	1
9. Landscape Works - 3 months (from Q2 2030 - Q2 2030)								
1	Landscape works	Generator	3	80%	3	e.g. 7am to 7pm	G	3
		Excavator	3	50%	3		E	3
		Mobile Crane, 50T	3	50%	3		M	3
		welding/cutting equipment	3	50%	3		WE	3
10. Remove all temporary works and re-instatement - 6 months (from Q2 2030 - Q3 2030)								
1	Reininstate working area to original condition or required condition	Lorry	3	50%	6	e.g. 7am to 7pm	LZ	3

Noise calculation column groups (each group repeated for LAeq(12 hours) day, LAeq(12 hours) night, LAeq(1 hour) night 7pm-10pm, LAeq(5 mins) day, LAeq(5 mins) night 7pm-10pm, LAeq(5 mins) night 10pm-7am): Equipment No. | On-time(%) / daily working hours | PWL, dB(A) | 10^(Lw/10) | Max. Reduction Level in dB(A) | PWL, dB(A) | 10^(Lw/10) (with Movable Barrier)

ID	Day Time (7am-7pm) Equipment No.	On-time(%) / daily working hours	PWL, dB(A)	10^(Lw/10)	Max. Reduction Level in dB(A)	PWL, dB(A)	10^(Lw/10)
					with Movable Barrier		
E	1	80%	105	3.1849E+10	-10	95	3184857364
LZ	2	80%	110	1.0095E+11	-10	100	10095317512
G	1	80%	105	3.1849E+10	-15	90	1007140329
FL	1	50%	110	9.9763E+10		110	99763115748
LC	1	50%	95	3154786722	-5	90	997631157.5
C	1	80%	102	1.5962E+10	-15	87	504765875.6
LZ	1	80%	107	5.0477E+10	-10	97	5047658756
E	1	80%	105	3.1849E+10	-10	95	3184857364
				116			111
G	1	100%	106	3.9811E+10	-15	91	1258925412
DT	1	30%	102	1.5036E+10	-10	92	1503561701
FL	1	30%	108	5.9858E+10		108	59857869449
E	3	80%	110	9.5546E+10	-10	100	9554572093

should combine with Scenario 2B at docking shaft?

safety crtical for 10months

SCENARIO 2A, noisiest in morning, if can reduce this to within criteria means all other periods of works can meet

Proposed Downtown Line 2 Extension (DTL2e) - Proposed Sungei Kadut Cut & Cover Station

Activity by sequence [General activity in sequence]	[Typical construction activity for each general activity]	PME [Breakdown of all Construction Equipment used for that particular construction activity]	No [Quantity of that particular construction equipment used for that particular construction activity]	On-time(%) / daily working hours [how long in percentage that particular equipment will be used in a day]	Approximate no of months for this activity [in months]	Working hours per day [please indicate the working hours of every phase . Eg., 7am to 7pm, 6am to 10pm or 24 hrs]	ID	Day Time (7am-7pm) Equipment No.
1. Demolition - 24 months (from Q3 2023 - Q3 2025)								
1.1 Building Level								
2	Hacking of minor structure	Hand held Breaker	20	70%	24	e.g. 7am to 7pm	PB	1
3	Hacking of major structural on buildings	Excavator mounted with Breaker	20	100%	24		ER	1
1.2 Ground Level								
1	Removal of abandon steel element, debris eg damage window frames,doors, internal & external building furnitures etc and delivery steel plates, scaffoldings and hoarding boards for Safety Nets & dust control curtains	Lorry Cranes	20	50%	24		LC	1
4	Removal of foundation & spoils	Excavator	20	70%	24		E	1
5	Removal of Debris	Dump Trucks	40	50%	24		DT	2
2. Clearance for Construction Area - 6 months (from Q2 2025 - Q3 2025)								
1	Site Clearance and Earthworks to prepare platform	Excavator	1	80%	6	e.g. 7am to 7pm	E	1
		Lorry	2	80%	6		LZ	2
		Generator	1	80%	6		G	1
		Front end loader	1	50%	6		FL	1
		Lorry Cranes	1	50%	6		LC	1
		Air Compressor	1	80%	6		C	1
2	Construction Access	Lorry	1	80%	6		LZ	1
		Excavator	1	80%	6		E	1
3. Traffic Diversion - 2 months (from Q3 2025 - Q3 2025)								
1	Mobilizing of Hoarding boards, Delivery of decking	Lorry Cranes	1	80%	2	e.g. 7am to 7pm	LC	1
2	Delivery of rebar, sheel piles , king post, decking	40 ft Trailer	1	50%	2		TT	1
3	Installation of King post of decking support	Hydraulic Foundation Drill	1	50%	2		HFD	1
4	Excavation of working platfrom	Excavator	1	50%	2		E	1
5	Installation of decking	Crane	1	80%	2		CR	1
4. Excavation to Work Platform Level - 27 months (from Q2 2026 - Q1 2029)								
1	for ECM supply	Generator	1	100%	27	e.g. 7am to 7pm	G	1
2	Removal of Spoils and delivery of Hard Core	Dump Truck	1	30%	27		DT	1
3	Levelling of working platform	Front end loader	1	30%	27		FL	1
4	Excavation to platform level & ECM trenches	Excavator	3	80%	27		E	3
5	Platform preparation	Roller	1	40%	27		R	1
6	Delivery of Steel plates and materials	Lorry Cranes	1	50%	27		LC	1
7	Spoil removal	Dump Truck	3	50%	27		DT	3
5. Temporary work - Installation of D Wall, Sheet Pile - 22 months (from Q4 2025 - Q4 2027)								
1	Excavation of D wall Trenches	D-wall rig with Grab	6	80%	22	e.g. 7am to 7am	DR	6
2	To Hoist Tremie Pipe & Re-bar D wall Cages	Truck Mounted Crane	3	80%	22		TC	3
3	Handle tremie pipe & re-bar	Mobile Crane	3	80%	22		MC	3
4	For casting wall	Ready Mix Concrete Truck	3	50%	22		RMC	3
5	Concreting works	Concrete pump	3	50%	22		CP	3
6	Batching Plant	Colloidal Mixer (bentonite)	3	80%	22		CM	0
		Compressor			22		C	0
		Generator			22		G	0
		Ripple Screen (included in STP)			22		RS	0
		Measuring Tank & Agitator			22		MT	0
		Slurry Pump			22		SP	0
		Clean Water Tanks			22		CWT	3
		Bentonite Slurry Tanks			22		BST	0
7	Earth Removal from Tanks	Excavator	3	50%	22		E	3
8	Spoil & slurry disposal	Dump Truck	3	50%	22		DT	3
6. Installation of Wallers & Struts/Stage excavation - 27 months (from Q2 2026 - Q1 2029)								
1	Hot works - welding of steel beams, brackets, etc	Welding Equipment	3	80%	27	e.g. 7am to 7pm	WE	3
2	Delivery ofSteel sections	40 ft Trailer	1	50%	27		TT	1
3	Hoisting of Waler & Struts	Mobile Crane	1	80%	27		MC	1
4	Stage excavation for walers & struts	Crane	1	80%	27		CR	1
5	Stage Excavation	Excavator	2	80%	27		E	2
6	Stage Excavation	Mini Excavator	2	80%	27		ME	2
7	Spoi and slurry removal	Dump truck	4	80%	27		DT	4
7.1 TBM (Launching Sg. Kadut Launch Shaft to Intermediate Station) - 21 months (from Q3 2026- Q2 2028)								
1	TBM- Assemble tunneling equipment	TBM & Gantries	2	50%	3	e.g. 7am to 7am	CR	2
		40T Gantry Crane	2	50%	3		CR	2
		30T Excavator	2	50%	3		ET	2
		Grout mixing plant	2	50%	3		GMP	2
		Slurry separation plant	2	50%	3		BST	2
		Segment Delivery	2	50%	3		DT	2
		Muckaway truck	2	50%	3		DT	2
		Water chiller plant	2	50%	3		CH	2
		Ventilation air cooling plant	2	50%	3		AC	2
		Ventilation supply fans	2	50%	3		AC	2
		Shaft hoist	2	50%	3		SH	2
		Air compressor	2	50%	3		C	2
		Air Receiver	2	50%	3		C	2
		Air Chiller	2	50%	3		CH	2
		200 T crane	2	50%	3		CTT	2
7.2								
1	Lowering of TBM	Air compressor	1	50%	3		C	1
		Air Receiver	1	50%	3		C	1
		500 t crane	1	50%	3		CTTT	1
2	TBM Main Drive	TBM & Gantries	2	100%	18		CR	2
		40T Gantry Crane	2	100%	18		CR	2
		30T Excavator	2	100%	18		ET	2
		Grout mixing plant	2	100%	18		GMP	2
		slurry separation plant	2	100%	18		BST	2
		Segment Delivery	2	100%	18		DT	2
		Muckaway truck	2	100%	18		DT	2
		Water chiller plant	2	100%	18		CH	2
		Ventilation air cooling plant	2	100%	18		AC	2
		Ventilation supply fans	2	100%	18		AC	2
		Shaft hoist	2	100%	18		SH	2
		Air compressor	2	100%	18		C	2
		Air Receiver	2	100%	18		C	2
		Air Chiller	2	100%	18		CH	2
8. Construction of Permanent Structure - 42 months (from Q3 2026 - Q2 2030)								
1	Pumping of water from ground or rain	Tempoary Water Pump	4	100%	42	e.g. 7am to 7pm	TWP	4
2	Power supply for lighting , pumps and temporary ventilation fans	Generator	3	100%	42		G	3
3	Excavation below surface for working platform	Excavator	1	50%	42		E	1
4	Stage Excavation to prepare Lean concrete	Mini Excavator	2	80%	42		ME	2
5	Excavation below surface - removal of spoil	Crane	1	50%	42		CR	1
6	Spoil removal	Dump Truck	1	50%	42		DT	1
7	Air compressor for cleaning formwork before casting	Compressor	1	50%	42		C	1
8	Handle re-bar & hoisting of false work, scaffolding, temporary working platforms	Mobile Crane	1	50%	42		MC	1
9	For Casting	Ready Mix Concrete Truck	1	50%	42		RMC	1
10	For Casting	Concrete pump	1	50%	42		CP	1
9. Resintatement of Work & Exiting Road - 6 months								
1	Levelling of road subbase, base	Excavator	1	80%	6	e.g. 7am to 7pm	E	1
2	Road compaction	Roller	1	80%	6		R	1
3	Levelling works	Front end loader	1	80%	6		FL	1
4	Delivery of Mill (Premix)	Dump Truck	1	80%	6		DT	1
5	Levelling	Grader	1	80%	6		GR	1
6	Asphalt laying	Asphalt Paver	1	80%	6		AP	1
10. Entrances - Construction of D Wall & Sheet piles - 6 months (from Q1 2028 - Q2 2028)								
1	Excavation of D wall Trenches	D-wall rig with Grab	1	80%	6	e.g. 7am to 7am	DR	1
2	To Hoist Tremie Pipe & Re-bar D wall Cages	Truck Mounted Crane	1	80%	6		TC	1
3	Handle tremie pipe & re-bar	Mobile Crane	1	80%	6		MC	1
4	For casting wall	Ready Mix Concrete Truck	1	80%	6		RMC	1
5	Concreting works	Concrete pump	1	80%	6		CP	1
6	Spoil & slurry disposal	Dump Truck	1	80%	6		DT	1
7	Delivery of rebar, sheel piles , king post, decking	40 ft Trailer	1	80%	6		TT	1
11. Foundation Work (Substructures including piles and pile caps) for above ground Station Box- 3 months (from Q3 2026 - Q3 2026)								
1	Erection of crawler crane & boring rig	Mobile Crane	1	80%	3	e.g. 7am to 7am	MC	1
2	Installation of Casing	Crawler Crane	1	80%	3		CC	1
3	Boring Work	Bored Piling Machine	2	80%	3		BPM	2
4	Rebar Cage & Tremix Pipe Installation	Crawler Crane	2	80%	3		CC	2
5	Concreting works	Ready Mix Concrete Truck & crawler crane	1	80%	3		CC	1
6	Pile Head hacking	Excavator via breaker and 40 pounds breaker	2	80%	3		ER	2
7	Hot works - welding of steel beams, brackets, etc	Welding Equipment	2	80%	3		WE	2
8	Delivery of Steel sections	40 ft Trailer	1	80%	3		TT	1
9	Hoisting of Rebar	Excavator with lifting appliance	1	80%	3		E	1
10	Stage excavation for walers & struts	Excavator with lifting appliance	1	80%	3		E	1
11	Stage Excavation	Excavator	1	80%	3		E	1
		Mini Excavator	1	80%	3		ME	1
12	Spoil and slurry removal	Dump trucks	1	80%	3		DT	1
12. Superstructure above ground Station Box -42 months (from Q2 2027 - Q4 2030)								
1	Pumping of water from ground or rain	Temporary Water Pump	1	80%	42	e.g. 7am to 7pm	TWP	1
2	Power supply for lighting, pumps and temporary ventilation fans	Generator	1	80%	42		G	1
3	Excavation below surface for working platform	Excavator	1	80%	42		E	1
4	Stage Excavation to prepare Lean concrete	Mini Excavator	1	80%	42		ME	1
5	Excavation below surface - removal of spoil	Crane	1	80%	42		CR	1
6	Spoil removal	Dump Trucks	1	80%	42		DT	1
7	Air compressor for cleaning formwork before casting	Compressor	1	80%	42		C	1
8	Handle re-bar & hoisting of false work, scaffolding, temporary working	Mobile Crane	1	80%	42		MC	1
9	For Casting	Ready Mix Concrete Truck	1	80%	42		RMC	1
		Concrete pump	2	80%	42		CP	2
13. Landscape Works - 3 months (from Q2 2030 - Q2 2030)								
1	Landscape works	Generator	3	80%	3	e.g. 7am to 7pm	G	3
		Excavator	3	50%	3		E	3
		Mobile Crane, 50T	3	50%	3		M	3
		welding/cutting equipment	3	50%	3		WE	3
14. Remove all temporary works and re-instatement - 6 months (from Q2 2030 - Q3 2030)								
1	Removal of ERSS	Generator	3	50%	6	e.g. 7am to 7pm	G	3
		Excavator mounted sheetpile vibrator	3	50%	6		EVD	3
		Mobile Crane, 50T	3	50%	6		M	3
		Welding/Cutting equipment	3	50%	6		WE	3
2	Reininstate working area to original condition or required condition	Lorry	3	50%	6		LZ	3
15. Site Office								
1	Site Office Installation (assume ground slab construction is done here)	Mobile Crane	1	100%	3	e.g. 7am to 7pm	MC	1
		Air Compressor	2	20%	2			
		Concrete truck	1 or 2 queue on site	25%	1			
		Concrete vibrator	2 (plus 1 standby)	25%	1			
		Welding machine / generator	3	60%	3		WE	1
		Electric chain saw/ electric bolt tightening gun	2 (each)	50%	3		HS	1
		Lorry Crane/ trailer	1	20%	0.5		LC	1
		Boom Lift	2	80%	3		BL	1
2	Mobilizing of Hoarding boards, Delivery of decking	Lorry Crane/ trailer	1	100%	1		LC	1
3	Site Clearance and Earthworks to prepare platform	Excavator/ low loader	1	100%	0.75		E	1
		Lorry	4	100%	0.75		DT	1
16. Site Dormitory								
1	Site Dormitory Installation	Mobile Crane	1	100%	3	e.g. 7am to 7pm	MC	1
		Air Compressor	2	20%	2		C	1
		Concrete truck	1 or 2 queue on site	25%	1		DT	1
		Concrete vibrator	2 (plus 1 standby)	25%	1		V	1
		Welding machine / generator	3	60%	3		WE	1
		Electric chain saw/ electric bolt tightening gun	2 (each)	50%	3		HS	1
		Lorry Crane/ trailer	1	20%	0.5		LC	1
		Boom Lift	2	80%	3		BL	1
2	Mobilizing of Hoarding boards, Delivery of decking	Mobile Crane/ excavator	1	100%	1		MC	1
		Lorry Crane/ trailer	1	100%	1		LC	1
3	Site Clearance and Earthworks to prepare platform	Excavator	1	100%	0.75		E	1
		Lorry	4	100%	0.75		DT	1
17. Site Storage								
1	Site Storage Installation	Mobile Crane	1	100%	3	e.g. 7am to 7pm	MC	1
		Air Compressor	2	20%	2		C	1
		Concrete truck	1 or 2 queue on site	25%	1		CT	1
		Concrete vibrator	2 (plus 1 standby)	25%	1		V	1
		Welding machine / generator	3	60%	3		WE	1
		Electric chain saw/ electric bolt tightening gun	2 (each)	50%	3		HS	1
		Lorry Crane/ trailer	1	20%	0.5		LC	1
		Boom Lift	2	80%	3		BL	1
2	Site Clearance and Earthworks to prepare platform	Excavator	1	100%	0.75		E	1
		Lorry	3	100%	0.75		DT	1
3	Mobilizing of materials	Mobile Crane	1	100%	1		MC	1
		Lorry Crane/ trailer	2	100%	1		DT	1

Proposed Downtown Line 2 Extension (DTL2e) - Proposed Pedestrian Overhead Bridge (POB)

Activity by sequence [General activity in sequence]	[Typical construction activity for each general activity]	PME [Breakdown of all Construction Equipment used for that particular construction activity]	No [Quantity of that particular construction equipment used for that particular construction activity]	On-time(%) / daily working hours [how long in percentage that particular equipment will be used in a day]	Approximate no of months for this activity [in months]	Working hours per day [please indicate the working hours of every phase . Eg., 7am to 7pm, 6am to 10pm or 24 hrs]	ID	LAeq(12 hours) Day Time (7am-7pm) Equipment No.	On-time(%) / daily working hours	PWL, dB(A)	10^(Lw/10)	Max. Reduction Level in dB(A)	PWL, dB(A)	10^(Lw/10)	LAeq(5 mins) Day Time (7am-7pm) Equipment No.	On-time(%) / daily working hours	PWL, dB(A)	10^(Lw/10)	Max. Reduction Level in dB(A)	PWL, dB(A)	10^(Lw/10)
1. Clearance for Construction Area												with Movable Barrier							with Movable Barrier		
1	Site Clearance and Earthworks to prepare platform	Excavator	1	70%	1	e.g. 7am to 7pm	E	1	70%	104	27867501939	-10	94	2786750194	1	100%	106	39810717055	-10	96	3981071706
		Lorry	1	70%	1		LZ	1	70%	106	44167014114	-10	96	4416701411	1	100%	108	63095734448	-10	98	6309573445
		Generator	1	70%	1		G	1	70%	104	27867501939	-15	89	881247788.3	1	100%	106	39810717055	-15	91	1258925412
		Excavator	1	70%	1		E	1	70%	104	27867501939	-15	89	881247788.3	1	100%	106	39810717055	-15	91	1258925412
		Air Compressor	1	100%	1		C	1	100%	103	19952623150	-15	88	630957344.5	1	100%	103	19952623150	-15	88	630957344.5
2	Construction Access	Lorry	1	40%	1		LZ	1	40%	104	25238293779	-10	94	2523829378	1	100%	108	63095734448	-10	98	6309573445
		Excavator	1	40%	1		E	1	40%	102	15924286822	-10	92	1592428682	1	100%	106	39810717055	-10	96	3981071706
2. Foundation Work (Substructures including piles and pile caps) for above ground bridge structure - Per Pilecap											113			101				115			104
1	Sheet Piling	Sheet Pile Rig	1	80%	0.25	e.g. 7am to 7pm	BPM	1	80%	116	4.0095E+11		116	4.0095E+11	1	100%	117	5.01187E+11		117	5.01187E+11
2	Hot works - welding of steel beams, brackets, etc	Welding Equipment	1	10%	0.5		WE	1	10%	91	1258925412		91	1258925412	1	100%	101	12589254118		101	12589254118
3	Delivery of Steel sections	40 ft Trailer	1	10%	0.5		TT	1	10%	98	6309573445		98	6309573445	1	100%	108	63095734448		108	63095734448
4	Hoisting of Waler & Struts	Excavator with lifting appliance	1	10%	0.5		E	1	10%	96	3981071706	-10	86	398107170.6	1	100%	106	39810717055	-10	96	3981071706
5	Stage excavation for walers & struts	Excavator with lifting appliance	1	10%	0.5		E	1	10%	96	3981071706	-10	86	398107170.6	1	100%	106	39810717055	-10	96	3981071706
6	Stage Excavation	Mini Excavator	1	80%	0.5		ME	1	80%	95	3184857364	-10	85	318485736.4	1	100%	96	3981071706	-10	86	398107170.6
7	Micropile work	Micropile Machine	1	80%	1		MPRB	1	80%	102	15962098520		102	15962098520	1	100%	103	19952623150		103	19952623150
8	For Casting	Ready Mix Concrete Truck	1	30%	1		RMC	1	30%	102	15035617009	-10	92	1503561701	1	100%	107	50118723363	-10	97	5011872336
9		Concrete pump	1	30%	1		CP	1	30%	101	11943215117	-15	86	377677623.5	1	100%	106	39810717055	-15	91	1258925412
3. Superstructure - 12 months											117			116				119			118
1	Handle re-bar & hoisting of false work, scaffolding, temporary working platforms	Mobile Crane	2	100%	0.5	e.g. 7am to 7pm	MC	2	100%	113	2E+11	-5	108	63245553203	2	100%	113	2E+11	-5	108	63245553203
2	Pier - Concrete	Ground crane	2	100%	1		CR	2	100%	101	12619146890	-5	96	3990524630	2	100%	101	12619146890	-5	96	3990524630
3	Delivery of Steel sections	Track	1	10%	1			1	10%				0		1	100%				0	
4	Erection and assembly of steel sections	Mobile Crane	2	30%	3		MC	2	30%	108	60000000000		108	60000000000	2	100%	113	2E+11		113	2E+11
5	For Casting	Ready Mix Concrete Truck	1	30%	1		RMC	1	30%	102	15035617009	-10	92	1503561701	1	100%	107	50118723363	-10	97	5011872336
		Concrete pump	1	30%	1		CP	1	30%	101	11943215117	-15	86	377677623.5	1	100%	106	39810717055	-15	91	1258925412
											115			111				117			114

Proposed Downtown Line 2 Extension (DTL2e) - Proposed Docking Shaft

Activity by sequence [General activity in sequence]	[Typical construction activity for each general activity]	PME [Breakdown of all Construction Equipment used for that particular construction activity]	No [Quantity of that particular construction equipment used for that particular construction activity]	On-time(%) / daily working hours [how long in percentage that particular equipment will be used in a day]	Approximate no of months for this activity [in months]	Working hours per day [please indicate the working hours of every phase . Eg., 7am to 7pm, 6am to 10pm or 24 hrs]
1. Clearance for Construction Area - 6 months (from Q2 2025 - Q3 2025)						
1	Site Clearance and Earthworks to prepare platform	Excavator	1	80%	6	e.g. 7am to 7pm
		Lorry	2	80%	6	
		Generator	1	80%	6	
		Front end loader	1	50%	6	
		Lorry Cranes	1	50%	6	
		Air Compressor	1	80%	6	
2	Construction Access	Lorry	1	80%	6	
		Excavator	1	80%	6	
2. Traffic Diversion - 24 months (from Q1 2024 - Q4 2025)						
1	Mobilizing of Hoarding boards, Delivery of decking	Lorry Cranes	1	80%	24	e.g. 7am to 7pm
2	Delivery of rebar, sheel piles , king post, decking	40 ft Trailer	1	80%	24	
3	Installation of King post of decking support	Hydraulic Foundation Drill	1	80%	24	
4	Excavation of working platfrom	Excavator	1	80%	24	
5	Installation of decking	Crane	1	80%	24	
3. Excavation to Work Platform Level - 12 months (from Q2 2026 - Q2 2027)						
1	For ECM supply	Generator	1	100%	12	e.g. 7am to 7pm
2	Removal of Spoils and delivery of Hard Core	Dump Truck	1	30%	12	
3	Levelling of working platform	Front end loader	1	30%	12	
4	Excavation to platform level & ECM trenches	Excavator	3	80%	12	
5	Platform preparation	Roller	1	40%	12	
6	Delivery of Steel plates and materials	Lorry Cranes	1	50%	12	
7	Spoil removal	Dump Truck	3	50%	12	
4. Temporary work - Installation of D Wall, Sheet Pile - 6 months (from Q4 2025 - Q4 2026)						
1	Excavation of D wall Trenches	D-wall rig with Grab	2	80%	6	e.g. 7am to 7am
2	To Hoist Tremie Pipe & Re-bar D wall Cages	Truck Mounted Crane	1	80%	6	
3	Handle tremie pipe & re-bar	Mobile Crane	1	80%	6	
4	For casting wall	Ready Mix Concrete Truck	1	50%	6	
5	Concreting works	Concrete pump	1	50%	6	
6	Batching Plant	Colloidal Mixer (bentonite)	1	80%	6	
		Compressor			6	
		Generator			6	
		Ripple Screen (included in STP)			6	
		Measuring Tank & Agitator			6	
		Slurry Pump			6	
		Clean Water Tanks			6	
		Bentonite Slurry Tanks			6	
7	Earth Removal from Tanks	Excavator	1	50%	6	
8	Spoil & slurry disposal	Dump Truck	1	50%	6	
5. Installation of Wallers & Struts/Stage excavation - 12 months (from Q2 2026 - Q2 2027)						
1	Hot works - welding of steel beams, brackets, etc	Welding Equipment	1	80%	12	e.g. 7am to 7pm
2	Delivery ofSteel sections	40 ft Trailer	1	50%	12	
3	Hoisting of Waler & Struts	Mobile Crane	1	80%	12	
4	Stage excavation for walers & struts	Crane	1	80%	12	
5	Stage Excavation	Excavator	1	80%	12	
6	Stage Excavation	Mini Excavator	1	80%	12	
7	Left-in SBP Hacking	Excavator via breaker and 40 pounds breaker	1	30%	12	
8	Spoi and slurry removal	Dump truck	1	80%	12	
6. Construction of Permanent Structure - 12 months (from Q2 2027 - Q2 2028)						
1	Pumping of water from ground or rain	Temporary Water Pump	2	100%	12	e.g. 7am to 7pm
2	Power supply for lighting , pumps and temporary ventilation fans	Generator	1	100%	12	
3	Excavation below surface for working platform	Excavator	1	50%	12	
4	Stage Excavation to prepare Lean concrete	Mini Excavator	1	80%	12	
5	Excavation below surface - removal of spoil	Crane	1	50%	12	
6	Spoil removal	Dump Truck	1	50%	12	
8	Air compressor for cleaning formwork before casting	Compressor	1	50%	12	
7	Handle re-bar & hoisting of false work, scaffolding, temporary working platforms	Mobile Crane	1	50%	12	
8	For Casting	Ready Mix Concrete Truck	1	50%	12	
9	For Casting	Concrete pump	1	50%	12	
7. Resintatement of Work & Exiting Road - 3 months (from Q3 2028 - Q3 2028)						
1	Levelling of road subbase, base	Excavator	1	80%	3	e.g. 7am to 7pm
2	Road compaction	Roller	1	80%	3	
3	Levelling works	Front end loader	1	80%	3	
4	Delivery of Mill (Premix)	Dump Truck	1	80%	3	
5	Levelling	Grader	1	80%	3	
6	Asphalt laying	Asphalt Paver	1	80%	3	
8. Landscape Works - 3 months (from Q3 2028 - Q3 2028)						
1	Landscape works	Generator	3	80%	3	e.g. 7am to 7pm
		Excavator	3	50%	3	
		Mobile Crane, 50T	3	50%	3	
		Welding/Cutting equipment	3	50%	3	
9. Remove all temporary works and re-instatement - 6 months (from Q3 2028 - Q1 2029)						
1	Removal of ERSS, SBP head hacking	Generator	3	50%	6	e.g. 7am to 7pm
		Excavator via breaker and 40 pounds breaker	2	80%	3	
		Mobile Crane, 50T	3	50%	6	
		Welding/Cutting equipment	3	50%	6	
2	Reininstate working area to original condition or required condition	Lorry	3	50%	6	

LAeq(12 hours)

ID	Day Time (7am-7pm) Equipment No.	On-time(%) / daily working hours	PWL, dB(A)	10^(Lw/10)	Max. Reduction Level in dB(A)	PWL, dB(A)	10^(Lw/10)
					with Movable Barrier		
E	1	80%	105	31848573644	-10	95	3184857364
LZ	2	80%	110	1.00953E+11	-10	100	1.0095E+10
G	1	80%	105	31848573644	-15	90	1007140329
FL	1	50%	110	99763115748		110	9.9763E+10
LC	1	50%	95	3154786722	-5	90	997631157
C	1	80%	102	15962098520	-15	87	504765876
LZ	1	80%	107	50476587558	-10	97	5047658756
E	1	80%	105	31848573644	-10	95	3184857364
				116			111
LC	1	80%	97	5047658756	-5	92	1596209852
TT	1	80%	107	50476587558		107	5.0477E+10
HFD	1	80%	104	25298221281		104	2.5298E+10
E	1	80%	105	31848573644	-10	95	3184857364
CR	1	80%	97	5047658756	-5	92	1596209852
				111			109
G	1	100%	106	39810717055	-15	91	1258925412
DT	1	30%	102	15035617009	-10	92	1503561701
FL	1	30%	108	59857869449		108	5.9858E+10
E	3	80%	110	95545720933	-10	100	9554572093
R	1	40%	97	5035701647		97	5035701647
LC	1	50%	95	3154786722	-5	90	997631157
DT	3	50%	109	75178085044	-10	99	7517808504
				115			109
DR	2	80%	118	6.36971E+11	-10	108	6.3697E+10
TC	1	80%	97	5047658756	-5	92	1596209852
MC	1	80%	109	80000000000	-5	104	2.5298E+10
RMC	1	50%	105	31547867224	-10	95	3154786722
CP	1	50%	103	19905358528	-15	88	629462706
CM	0	80%		1		0	1
C	0	80%		1		0	1
G	0	80%		1		0	1
RS	0	80%		1		0	1
MT	0	80%		1		0	1
SP	0	80%		1		0	1
CWT	1	80%	107	50476587558		107	5.0477E+10
BST	0	80%		1		0	1
E	1	50%	103	19905358528	-15	88	629462706
DT	1	50%	104	25059361681	-10	94	2505936168
				119			112
WE	1	80%	100	10071403294		100	1.0071E+10
TT	1	50%	105	31547867224		105	3.1548E+10
MC	1	80%	109	80000000000	-5	104	2.5298E+10
CR	1	80%	97	5047658756	-5	92	1596209852
E	1	80%	105	31848573644	-10	95	3184857364
ME	1	80%	95	3184857364	-10	85	318485736
PNEU	1	30%	115	3E+11	-15	100	9486832981
DT	1	80%	106	40094978690	-10	96	4009497869
				117			109
TWP	2	100%	96	3990524630	-10	86	399052463
G	1	100%	106	39810717055	-15	91	1258925412
E	1	50%	103	19905358528	-10	93	1990535853
ME	1	80%	95	3184857364	-10	85	318485736
CR	1	50%	95	3154786722	-5	90	997631157
DT	1	50%	104	25059361681	-10	94	2505936168
C	1	50%	100	9976311575	-15	85	315478672
MC	1	50%	107	50000000000	-5	102	1.5811E+10
RMC	1	50%	105	31547867224	-10	95	3154786722
CP	1	50%	103	19905358528	-15	88	629462706
				113			104
E	1	80%	105	31848573644	-10	95	3184857364
R	1	80%	100	10071403294		100	1.0071E+10
FL	1	80%	112	1.59621E+11		112	1.5962E+11
DT	1	80%	106	40094978690	-10	96	4009497869
GR	1	80%	105	31848573644		105	3.1849E+10
AP	1	80%	111	1.26791E+11		111	1.2679E+11
				116			115
G	3	80%	110	95545720933	-15	95	3021420988
E	3	50%	108	59716075583	-10	98	5971607558
M	3	50%	97	4743416490	-5	92	1500000000
WE	3	50%	103	18883881177		103	1.8884E+10
				113			105
G	3	50%	108	59716075583	-15	93	1888388118
PNEU	2	80%	122	1.6E+12	-15	107	5.0596E+10
M	3	50%	97	4743416490	-5	92	1500000000
WE	3	50%	103	18883881177		103	1.8884E+10
LZ	3	50%	110	94643601672	-10	100	9464360167
				122			109

LAeq(12 hours) / LAeq(1 hour)

ID	Night Time (7pm-7am) Equipment No.	On-time(%) / daily working hours	PWL, dB(A)	10^(Lw/10)	Max. Reduction Level in dB(A)	PWL, dB(A)	10^(Lw/10)	Night Time (7pm-10pm) Equipment No.	On-time(%) / daily working hours	PWL, dB(A)	10^(Lw/10)	Max. Reduction Level in dB(A)	PWL, dB(A)	10^(Lw/10)
					with Movable Barrier							with Movable Barrier		
E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LZ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
G	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LZ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				NA			NA				NA			NA
LC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				NA			NA				NA			NA
G	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				NA			NA				NA			NA
DR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RMC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
G	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CWT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BST	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				NA			#VALUE!				NA			#VALUE!
WE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ME	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PNEU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				NA			#VALUE!				NA			#VALUE!
TWP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
G	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ME	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RMC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				NA			NA				NA			NA
E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				NA			NA				NA			NA
G	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
M	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				NA			NA				NA			NA
G	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PNEU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
M	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LZ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				NA			NA				NA			NA

LAeq(1 hour)

ID	Night Time (10pm-7am) Equipment No.	On-time(%) / daily working hours	PWL, dB(A)	10^(Lw/10)	Max. Reduction Level in dB(A)	PWL, dB(A)	10^(Lw/10)
					with Movable Barrier		
E	NA	NA	NA	NA	NA	NA	NA
LZ	NA	NA	NA	NA	NA	NA	NA
G	NA	NA	NA	NA	NA	NA	NA
FL	NA	NA	NA	NA	NA	NA	NA
LC	NA	NA	NA	NA	NA	NA	NA
C	NA	NA	NA	NA	NA	NA	NA
LZ	NA	NA	NA	NA	NA	NA	NA
E	NA	NA	NA	NA	NA	NA	NA
				NA			NA
LC	NA	NA	NA	NA	NA	NA	NA
TT	NA	NA	NA	NA	NA	NA	NA
HFD	NA	NA	NA	NA	NA	NA	NA
E	NA	NA	NA	NA	NA	NA	NA
CR	NA	NA	NA	NA	NA	NA	NA
				NA			NA
G	NA	NA	NA	NA	NA	NA	NA
DT	NA	NA	NA	NA	NA	NA	NA
FL	NA	NA	NA	NA	NA	NA	NA
E	NA	NA	NA	NA	NA	NA	NA
R	NA	NA	NA	NA	NA	NA	NA
LC	NA	NA	NA	NA	NA	NA	NA
DT	NA	NA	NA	NA	NA	NA	NA
				NA			NA
DR	NA	NA	NA	NA	-10	#VALUE!	#VALUE!
TC	NA	NA	NA	NA	-5	#VALUE!	#VALUE!
MC	NA	NA	NA	NA	-5	#VALUE!	#VALUE!
RMC	NA	NA	NA	NA	-10	#VALUE!	#VALUE!
CP	NA	NA	NA	NA	-15	#VALUE!	#VALUE!
CM	NA	NA	NA	NA		#VALUE!	#VALUE!
C	NA	NA	NA	NA		#VALUE!	#VALUE!
G	NA	NA	NA	NA		#VALUE!	#VALUE!
RS	NA	NA	NA	NA		#VALUE!	#VALUE!
MT	NA	NA	NA	NA		#VALUE!	#VALUE!
SP	NA	NA	NA	NA		#VALUE!	#VALUE!
CWT	NA	NA	NA	NA		#VALUE!	#VALUE!
BST	NA	NA	NA	NA		#VALUE!	#VALUE!
E	NA	NA	NA	NA	-15	#VALUE!	#VALUE!
DT	NA	NA	NA	NA	-10	#VALUE!	#VALUE!
				NA			#VALUE!
WE	NA	NA	NA	NA		#VALUE!	#VALUE!
TT	NA	NA	NA	NA		#VALUE!	#VALUE!
MC	NA	NA	NA	NA	-5	#VALUE!	#VALUE!
CR	NA	NA	NA	NA	-5	#VALUE!	#VALUE!
E	NA	NA	NA	NA	-10	#VALUE!	#VALUE!
ME	NA	NA	NA	NA	-10	#VALUE!	#VALUE!
PNEU	NA	NA	NA	NA	-15	#VALUE!	#VALUE!
DT	NA	NA	NA	NA	-10	#VALUE!	#VALUE!
				NA			#VALUE!
TWP	NA	NA	NA	NA	NA	NA	NA
G	NA	NA	NA	NA	NA	NA	NA
E	NA	NA	NA	NA	NA	NA	NA
ME	NA	NA	NA	NA	NA	NA	NA
CR	NA	NA	NA	NA	NA	NA	NA
DT	NA	NA	NA	NA	NA	NA	NA
C	NA	NA	NA	NA	NA	NA	NA
MC	NA	NA	NA	NA	NA	NA	NA
RMC	NA	NA	NA	NA	NA	NA	NA
CP	NA	NA	NA	NA	NA	NA	NA
				NA			NA
E	NA	NA	NA	NA	NA	NA	NA
R	NA	NA	NA	NA	NA	NA	NA
FL	NA	NA	NA	NA	NA	NA	NA
DT	NA	NA	NA	NA	NA	NA	NA
GR	NA	NA	NA	NA	NA	NA	NA
AP	NA	NA	NA	NA	NA	NA	NA
				NA			NA
G	NA	NA	NA	NA	NA	NA	NA
E	NA	NA	NA	NA	NA	NA	NA
M	NA	NA	NA	NA	NA	NA	NA
WE	NA	NA	NA	NA	NA	NA	NA
				NA			NA
G	NA	NA	NA	NA	NA	NA	NA
PNEU	NA	NA	NA	NA	NA	NA	NA
M	NA	NA	NA	NA	NA	NA	NA
WE	NA	NA	NA	NA	NA	NA	NA
LZ	NA	NA	NA	NA	NA	NA	NA
				NA			NA

LAeq(5 mins)

ID	Day Time (7am-7pm) Equipment No.	On-time(%) / daily working hours	PWL, dB(A)	10^(Lw/10)	Max. Reduction Level in dB(A)	PWL, dB(A)	10^(Lw/10)
					with Movable Barrier		
E	1	100%	106	39810717055	-10	96	3981071706
LZ	2	100%	111.0103	1.26191E+11	-10	101	12619146890
G	1	100%	106	39810717055	-15	91	1258925412
FL	1	100%	113	1.99526E+11		113	1.99526E+11
LC	1	100%	98	6309573445	-5	93	1995262315
C	1	100%	103	19952623150	-15	88	630957344.5
LZ	1	100%	108	63095734448	-10	98	6309573445
E	1	100%	106	39810717055	-10	96	3981071706
				117			114
LC	1	100%	98	6309573445	-5	93	1995262315
TT	1	100%	108	63095734448		108	63095734448
HFD	1	100%	105	31622776602		105	31622776602
E	1	100%	106	39810717055	-10	96	3981071706
CR	1	100%	98	6309573445	-5	93	1995262315
				112			110
G	1	100%	106	39810717055	-15	91	1258925412
DT	1	100%	107	50118723363	-10	97	5011872336
FL	1	100%	113	1.99526E+11		113	1.99526E+11
E	3	100%	111	1.19432E+11	-10	101	11943215117
R	1	100%	101	12589254118		101	12589254118
LC	1	100%	98	6309573445	-5	93	1995262315
DT	3	100%	112	1.50356E+11	-10	102	15035617009
				118			114
DR	2	100%	119	7.96214E+11	-10	109	79621434111
TC	1	100%	98	6309573445	-5	93	1995262315
MC	1	100%	110	1E+11	-5	105	31622776602
RMC	1	100%	108	63095734448	-10	98	6309573445
CP	1	100%	106	39810717055	-15	91	1258925412
CM	0	100%		1		0	1
C	0	100%		1		0	1
G	0	100%		1		0	1
RS	0	100%		1		0	1
MT	0	100%		1		0	1
SP	0	100%		1		0	1
CWT	1	100%	108	63095734448		108	63095734448
BST	0	100%		1		0	1
E	1	100%	106	39810717055	-15	91	1258925412
DT	1	100%	107	50118723363	-10	97	5011872336
				121			113
WE	1	100%	101	12589254118		101	12589254118
TT	1	100%	108	63095734448		108	63095734448
MC	1	100%	110	1E+11	-5	105	31622776602
CR	1	100%	98	6309573445	-5	93	1995262315
E	1	100%	106	39810717055	-10	96	3981071706
ME	1	100%	96	3981071706	-10	86	398107170.6
PNEU	1	100%	120	1E+12	-15	105	31622776602
DT	1	100%	107	50118723363	-10	97	5011872336
				121			112
TWP	2	100%	96	3990524630	-10	86	399052463
G	1	100%	106	39810717055	-15	91	1258925412
E	1	100%	106	39810717055	-10	96	3981071706
ME	1	100%	96	3981071706	-10	86	398107170.6
CR	1	100%	98	6309573445	-5	93	1995262315
DT	1	100%	107	50118723363	-10	97	5011872336
C	1	100%	103	19952623150	-15	88	630957344.5
MC	1	100%	110	1E+11	-5	105	31622776602
RMC	1	100%	108	63095734448	-10	98	6309573445
CP	1	100%	106	39810717055	-15	91	1258925412
				116			107
E	1	100%	106	39810717055	-10	96	3981071706
R	1	100%	101	12589254118		101	12589254118
FL	1	100%	113	1.99526E+11		113	1.99526E+11
DT	1	100%	107	50118723363	-10	97	5011872336
GR	1	100%	106	39810717055		106	39810717055
AP	1	100%	112	1.58489E+11		112	1.58489E+11
				117			116
G	3	100%	111	1.19432E+11	-15	96	3776776235
E	3	100%	111	1.19432E+11	-10	101	11943215117
M	3	100%	100	9486832981	-5	95	3000000000
WE	3	100%	106	37767762354		106	37767762354
				115			108
G	3	100%	111	1.19432E+11	-15	96	3776776235
PNEU	2	100%	123	2E+12	-15	108	63245553203
M	3	100%	100	9486832981	-5	95	3000000000
WE	3	100%	106	37767762354		106	37767762354
LZ	3	100%	113	1.89287E+11	-10	103	18928720334
				124			111

LAeq(5 mins) / LAeq(5 mins)

ID	Night Time (7pm-10pm) Equipment No.	On-time(%) / daily working hours	PWL, dB(A)	10^(Lw/10)	Max. Reduction Level in dB(A)	PWL, dB(A)	10^(Lw/10)	Night Time (10pm-7am) Equipment No.	On-time(%) / daily working hours	PWL, dB(A)	10^(Lw/10)	Max. Reduction Level in dB(A)	PWL, dB(A)	10^(Lw/10)
					with Movable Barrier							with Movable Barrier		
E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LZ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
G	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LZ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				NA			NA				NA			NA
LC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				NA			NA				NA			NA
G	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				NA			NA				NA			NA
DR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RMC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
G	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CWT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BST	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				NA			NA				NA			NA
WE	1	100%	101	12589254118		101	12589254118	1	100%	101	12589254118		101	12589254118
TT	1	100%	108	63095734448		108	63095734448	1	100%	108	63095734448		108	63095734448
MC	1	100%	110	1E+11	-5	105	31622776602	1	100%	110	1E+11	-5	105	31622776602
CR	1	100%	98	6309573445	-5	93	1995262315	1	100%	98	6309573445	-5	93	1995262315
E	1	100%	106	39810717055	-10	96	3981071706	1	100%	106	39810717055	-10	96	3981071706
ME	1	100%	96	3981071706	-10	86	398107170.6	1	100%	96	3981071706	-10	86	398107170.6
PNEU	1	100%	120	1E+12	-15	105	31622776602	1	100%	120	1E+12	-15	105	31622776602
DT	1	100%	107	50118723363	-10	97	5011872336	1	100%	107	50118723363	-10	97	5011872336
				121			112				121			112
TWP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
G	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ME	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RMC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				NA			NA				NA			NA
E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				NA			NA				NA			NA
G	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
M	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				NA			NA				NA			NA
G	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PNEU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
M	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LZ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				NA			NA				NA			NA

Proposed Downtown Line 2 Extension (DTL2e) - Proposed Elevated Vehicular Bridge

Activity by sequence [General activity in sequence]	[Typical construction activity for each general activity]	PME [Breakdown of all Construction Equipment used for that particular construction activity]	No [Quantity of that particular construction equipment used for that particular construction activity]	On-time(%) / daily working hours [how long in percentage that particular equipment will be used in a day]	Approximate no of months for this activity [in months]	Working hours per day [please indicate the working hours of every phase . Eg., 7am to 7pm, 6am to 10pm or 24 hrs]	ID	LAeq(12 hours) Day Time (7am-7pm) Equipment No.	On-time(%) / daily working hours	PWL, dB(A)	10^(Lw/10)	Max. Reduction Level in dB(A) with Movable Barrier	PWL, dB(A)	10^(Lw/10)	LAeq(5 mins) Day Time (7am-7pm) Equipment No.	On-time(%) / daily working hours	PWL, dB(A)	10^(Lw/10)	Max. Reduction Level in dB(A) with Movable Barrier	PWL, dB(A)	10^(Lw/10)
1. Demolition - 1 months																					
1	Hacking of minor structure	Hand held Breaker	2	100%	1		PB	2	100%	114.0103	2.51785E+11	-15	99	7962143411	2	100%	114	2.518E+11	-15	99	7962143411
2	Removal of Debris	Dump Trucks	1	50%	1		DT	1	50%	103.9897	25059361681	-10	94	2505936168	1	100%	107	5.012E+10	-10	97	5011872336
2. Clearance for Construction Area - 3 months											114			100				115			101
1	Site Clearance and Earthworks to prepare platform	Excavator	3	100%	1	7am to 7pm	E	3	100%	110.771213	1.19432E+11	-10	101	11943215117	3	100%	111	1.194E+11	-10	101	11943215117
		Lorry	2	100%	1		LZ	2	100%	111.0103	1.26191E+11	-10	101	12619146890	2	100%	111	1.262E+11	-10	101	12619146890
		Generator	2	100%	1		G	2	100%	109.0103	79621434111	-15	94	2517850824	2	100%	109	7.962E+10	-15	94	2517850824
		Concrete Vibrator	2	100%	1		V	2	100%	100.0103	10023744673		100	10023744673	2	100%	100	1.002E+10		100	10023744673
		Air Compressor	2	100%	1		C	2	100%	106.0103	39905246299	-15	91	1261914689	2	100%	106	3.991E+10	-15	91	1261914689
		Concrete truck	2	100%	1		CT	2	100%	107.0103	50237728630	-10	97	5023772863	2	100%	107	5.024E+10	-10	97	5023772863
2	Construction Access	Lorry	4	100%	2		LZ	4	100%	114.0206	2.52383E+11	-10	104	25238293779	4	100%	114	2.524E+11	-10	104	25238293779
		Excavator	4	100%	2		E	4	100%	112.0206	1.59243E+11	-10	102	15924286822	4	100%	112	1.592E+11	-10	102	15924286822
3. Foundation Work (Substructures including piles and pile caps) - 3 months											119			109				119			109
1	Erection of crawler crane & boring rig	Mobile Crane	2	100%	3	7am to 7pm	MC	2	100%	113.0103	2E+11	-5	108	63245553203	2	100%	113	2E+11	-5	108	63245553203
2	Installation of Casing	Crawler Crane	2	50%	3		CC	2	50%	114	2.51189E+11	-5	109	79432823472	2	100%	117	5.024E+11	-5	112	1.58866E+11
3	Boring Work	Bored Piling Machine	2	100%	3		G	2	100%	109.0103	79621434111		109	79621434111	2	100%	109	7.962E+10		109	79621434111
4	Rebar Cage & Tremix Pipe Installation	Crawler Crane	2	20%	3		CC	2	20%	110.0206	1.00475E+11	-5	105	31773129389	2	100%	117	5.024E+11	-5	112	1.58866E+11
5	Concreting works	Ready Mix Concrete Truck & crawler crane	6	20%	3		RMC	6	20%	108.791812	75714881338	-5	104	23943147780	6	100%	116	3.786E+11	-5	111	1.19716E+11
6	Pile Head hacking	Excavator via breaker and 40 pounds breaker	2	50%	1		ER	2	50%	100	10000000000	-15	85	316227766	2	100%	103	2E+10	-15	88	632455532
7	Hot works - welding of steel beams, brackets, etc	Welding Equipment	4	50%	2		WE	4	50%	104.0103	25178508236		104	25178508236	4	100%	107	5.036E+10		107	50357016472
8	Delivery of Steel sections	40 ft Trailer	2	10%	2		TT	2	10%	101.0103	12619146890		101	12619146890	2	100%	111	1.262E+11		111	1.26191E+11
9	Hoisting of Waler & Struts	Excavator with lifting appliance	2	20%	2		E	2	20%	102.0206	15924286822	-10	92	1592428682	2	100%	109	7.962E+10	-10	99	7962143411
10	Stage excavation for walers & struts	Excavator with lifting appliance	2	100%	2		E	2	100%	109.0103	79621434111	-10	99	7962143411	2	100%	109	7.962E+10	-10	99	7962143411
11	Stage Excavation	Excavator	2	100%	2		E	2	100%	109.0103	79621434111	-10	99	7962143411	2	100%	109	7.962E+10	-10	99	7962143411
		Mini Excavator	4	100%	2		ME	4	100%	102.0206	15924286822	-10	92	1592428682	4	100%	102	1.592E+10	-10	92	1592428682
12	Spoil and slurry removal	Dump trucks	2	100%	2		DT	2	100%	110.0103	1.00237E+11	-10	100	10023744673	2	100%	110	1.002E+11	-10	100	10023744673
4. Superstructure - 8 months											120			115				123			119
1	Pumping of water from ground or rain	Temporary Water Pump	5	50%	8	7am to 7pm	TWP	5	50%	96.9794001	4988155787	-10	87	498815578.7	5	100%	100	9.976E+09	-10	90	997631157.5
2	Power supply for lighting, pumps and temporary ventilation fans	Generator	5	100%	8		G	5	100%	112.9897	1.99054E+11	-15	98	6294627059	5	100%	113	1.991E+11	-15	98	6294627059
3	Spoil removal	Dump Trucks	2	50%	8		DT	2	50%	107	50118723363	-10	97	5011872336	2	100%	110	1.002E+11	-10	100	10023744673
4	Air compressor for cleaning formwork before casting	Compressor	5	50%	8		C	5	50%	106.9794	49881557874	-15	92	1577393361	5	100%	110	9.976E+10	-15	95	3154786722
5	Handle re-bar & hoisting of false work, scaffolding, temporary working platforms	Mobile Crane	5	100%	8		MC	5	100%	116.9897	5E+11	-5	112	1.58114E+11	5	100%	117	5E+11	-5	112	1.58114E+11
6	For Casting	Ready Mix Concrete Truck	20	50%	8		RMC	20	50%	118	6.30957E+11	-10	108	63095734448	20	100%	121	1.262E+12	-10	111	1.26191E+11
		Concrete pump	2	50%	8		CP	2	50%	106	39810717055	-15	91	1258925412	2	100%	109	7.962E+10	-15	94	2517850824
7	Prestressing works	Jack	2	50%	2		G	2	50%	106	39810717055		106	39810717055	2	100%	109	7.962E+10		109	79621434111
8	Lifting of pre-cast beam	Crane	4	50%	4		CR	4	50%	101.0103	12619146890	-5	96	3990524630	4	100%	104	2.524E+10	-5	99	7981049260
5. Road Works - 2 months											122			114				124			116
1	Road works	Road Rollers	2	100%	2	7am to 7pm	R	2	100%	104.0103	25178508236		104	25178508236	2	100%	104	2.518E+10		104	25178508236
		Excavators	2	100%	2		E	2	100%	109.0103	79621434111	-10	99	7962143411	2	100%	109	7.962E+10	-10	99	7962143411
		Motor Graders	2	100%	2		GR	2	100%	109.0103	79621434111		109	79621434111	2	100%	109	7.962E+10		109	79621434111
		Trucks	2	100%	2		DT	2	100%	110.0103	1.00237E+11	-10	100	10023744673	2	100%	110	1.002E+11	-10	100	10023744673
6. Remove all temporary works and re-instatement - 1 months											115			111				115			111
1	Removal of ERSS	Generator	2	100%	1	7am to 7pm	G	2	100%	109.0103	79621434111	-15	94	2517850824	2	100%	109	7.962E+10	-15	94	2517850824
		Excavator mounted sheetpile vibrator	2	100%	1		EVD	2	100%	119.0103	7.96214E+11	-10	109	79621434111	2	100%	119	7.962E+11	-10	109	79621434111
		Mobile Crane, 50T	2	100%	1		M	2	100%	98.0103	6324555320	-5	93	2000000000	2	100%	98	6.325E+09	-5	93	2000000000
		Welding/Cutting equipment	2	100%	1		WE	2	100%	104.0103	25178508236		104	25178508236	2	100%	104	2.518E+10		104	25178508236
2	Reininstate working area to original condition or required condition	Lorry	2	100%	1		LZ	2	100%	111.0103	1.26191E+11	-10	101	12619146890	2	100%	111	1.262E+11	-10	101	12619146890
											120			111				120			111

Appendix U

List of Ecological Receptors Sensitive to Airborne Noise

Table 1 List of Recorded Ecological Receptors sensitive to Airborne Noise

Taxon	Species	Common Name	Global Status	National Status	Recorded Species
Butterfly	*Borbo cinnara*	Formosan swift	Not Assessed	Endangered	Yes
Butterfly	*Potanthus trachala tytleri*	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	Yes
Butterfly	*Telicota colon stinga*	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	Yes
Bird	*Haliaeetus ichthyaetus*	Grey-headed fish eagle	Near Threatened	Critically Endangered	Yes
Bird	*Nisaetus cirrhatus*	Changeable hawk-eagle	Least Concern	Endangered	Yes
Bird	*Ardea cinerea*	Grey heron	Least Concern	Vulnerable	Yes
Bird	*Ardea purpurea*	Purple heron	Least Concern	Endangered	Yes
Bird	*Nycticorax nycticorax*	Black-crowned night heron	Least Concern	Critically Endangered	Yes
Bird	*Copsychus saularis*	Oriental magpie-robin	Least Concern	Endangered	Yes
Bird	*Gallus gallus*	Red junglefowl	Least Concern	Endangered	Yes
Bird	*Loriculus galgulus*	Blue-crowned hanging-parrot	Least Concern	Endangered	Yes
Bird	*Psittacula longicauda*	Long-tailed parakeet	Vulnerable	Not Assessed	Yes
Bird	*Pycnonotus zeylanicus*	Straw-headed bulbul	Critically Endangered	Endangered	Yes
Bird	*Rallina fasciata*	Red-legged crake	Least Concern	Vulnerable	Yes
Bird	*Strix seloputo*	Spotted wood owl	Least Concern	Critically Endangered	Yes
Mammal (non-volant)	*Lutrogale perspicillata*	Smooth otter	Vulnerable	Endangered	Yes
Mollusc	*Faunus ater*	N.A	Least Concern	Vulnerable	Yes

Appendix V

Airborne Noise Corrected Noise Criteria

Table 1 Background Noise Correction Calculations for LAeq(12 hours), dB for Weekdays (Monday – Saturday)

Types of Affected Buildings	Noise Criteria for $L_{Aeq(12hrs)}$, dB (Monday to Saturday)																					
	N1		N2		N3		N4		N5		N6		N7a		N7b		N7c		N8		NM1	
	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am
(a) Hospitals, schools, institutions of higher learning, homes for the aged or sick etc.																						
Construction noise criteria	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50
Overall baseline noise level	65	60	62	57	63	59	54	51	66	67	54	51	66	62	67	64	67	63	52	49	55	51
Difference between maximum permissible construction noise level and overall baseline noise level	5	10	2	7	3	9	6	1	6	17	6	1	6	12	7	14	7	13	8	1	5	1
Background noise correction factor	1	1	2	1	2	1	1	3	1	0	1	3	1	0	1	0	1	0	1	3	1	3
Corrected noise sensitive receptor criteria	66	61	64	58	65	60	61	54	67	67	61	54	67	62	68	64	68	63	61	53	61	54
(b) Residential buildings located less than 150 m from the construction site where the noise is being emitted																						
Construction noise criteria	75	NA	75	NA	75	NA	75	NA	75	NA	75	NA	75	NA	75	NA	75	NA	75	NA	75	NA
Overall baseline noise level	65	60	62	57	63	59	54	51	66	67	54	51	66	62	67	64	67	63	52	49	55	51
Difference between maximum permissible construction noise level and overall baseline noise level	10	NA	13	NA	12.2	NA	21	NA	9	NA	21	NA	9.4	NA	7.6	NA	7.8	NA	23	NA	19.8	NA
Background noise correction factor	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	1	0	0	0	0	0
Corrected noise sensitive receptor criteria	76	NA	75	NA	75	NA	75	NA	76	NA	75	NA	76	NA	76	NA	76	NA	75	NA	75	NA
(c) Buildings (other than those in paragraphs (a) and (b))																						
Construction noise criteria	75	65	75	65	75	65	75	65	75	65	75	65	75	65	75	65	75	65	75	65	75	65
Overall baseline noise level	65	60	62	57	63	59	54	51	66	67	54	51	66	62	67	64	67	63	52	49	55	51

Types of Affected Buildings	Noise Criteria for $L_{Aeq(12hrs)}$, dB (Monday to Saturday)																					
	N1		N2		N3		N4		N5		N6		N7a		N7b		N7c		N8		NM1	
	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am
Difference between maximum permissible construction noise level and overall baseline noise level	10	5	13	8	12	6	21	14	9	2	21	14	9	4	8	1	8	2	23	16	20	14
Background noise correction factor	1	1	0	1	0	1	0	0	1	2	0	0	1	2	1	3	1	2	0	0	0	0
Corrected noise sensitive receptor criteria	76	66	75	66	75	66	75	65	76	69	75	65	76	67	76	68	76	67	75	65	75	65

Table 2 Background Noise Correction Calculations for LAeq(12 hours), dB for Weekend and Public Holidays (Sundays and Public Holidays)

Types of Affected Buildings	Noise Criteria for $L_{Aeq(12hrs)}$, dB (Sunday & Public Holiday)																					
	N1		N2		N3		N4		N5		N6		N7a		N7b		N7c		N8		NM1	
	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am
(a) Hospitals, schools, institutions of higher learning, homes for the aged or sick etc.																						
Construction noise criteria	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50
Overall baseline noise level	61	56	62	55	60	58	51	48	49	73	50	50	63	60	65	63	65	62	52	48	52	51
Difference between maximum permissible construction noise level and overall baseline noise level	1	6	2	5	0	8	9	2	11	23	10	0	3	10	5	13	5	12	8	2	8	1
Background noise correction factor	3	1	2	1	3	1	1	2	0	0	0	3	2	0	1	0	1	0	1	2	1	3
Corrected noise sensitive receptor criteria	64	57	64	56	63	59	61	52	60	73	60	53	65	60	66	63	66	62	61	52	61	54
(b) Residential buildings located less than 150 m from the construction site where the noise is being emitted																						
Construction noise criteria	75	NA	75	NA	75	NA	75	NA	75	NA	75	NA	75	NA	75	NA	75	NA	75	NA	75	NA
Overall baseline noise level	61	56	62	55	60	58	51	48	49	73	50	50	63	60	65	63	65	62	52	48	52	51

Types of Affected Buildings	Noise Criteria for $L_{Aeq(12hrs)}$, dB (Sunday & Public Holiday)																					
	N1		N2		N3		N4		N5		N6		N7a		N7b		N7c		N8		NM1	
	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am	7am – 7pm	7pm – 7am
Difference between maximum permissible construction noise level and overall baseline noise level	14	NA	13	NA	15	NA	24	NA	26	NA	25	NA	12	NA	10	NA	10	NA	23	NA	23	NA
Background noise correction factor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Corrected noise sensitive receptor criteria	75	NA	75	NA	75	NA	75	NA	75	NA	75	NA	75	NA	75	NA	75	NA	75	NA	75	NA
(c) Buildings (other than those in paragraphs (a) and (b))																						
Construction noise criteria	75	65	75	65	75	65	75	65	75	65	75	65	75	65	75	65	75	65	75	65	75	65
Overall baseline noise level	61	56	62	55	60	58	51	48	49	73	50	50	63	60	65	63	65	62	52	48	52	51
Difference between maximum permissible construction noise level and overall baseline noise level	14	9	13	10	15	7	24	17	26	8	25	15	12	5	10	2	10	3	23	17	23	14
Background noise correction factor	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	2	0	2	0	0	0	0
Corrected noise sensitive receptor criteria	75	66	75	65	75	66	75	65	75	74	75	65	75	66	75	67	75	67	75	65	75	65

Table 3 Background Noise Correction Calculations for LAeq(1 hour), dB for Weekdays (Monday – Saturday)

Types of Affected Buildings	Noise Criteria for $L_{Aeq(1hr)}$, dB (Monday to Saturday)																	
	N1		N2		N3		N4		N5		N6		N7a		N7b		N7c	
	7pm – 10pm	10pm – 7am	7pm – 10pm	10pm – 7am	7pm – 10pm	10pm – 7am	7pm – 10pm	10pm – 7am	7pm – 10pm	10pm – 7am	7pm – 10pm	10pm – 7am	7pm – 10pm	10pm – 7am	7pm – 10pm	10pm – 7am	7pm – 10pm	10pm – 7am
Residential buildings located less than 150 m from the construction site where the noise is being emitted																		
Construction noise criteria	65	55	65	55	65	55	65	55	65	55	65	55	65	55	65	55	65	55
Overall baseline noise level	63	54	61	50	61	57	51	49	56	57	51	51	64	60	66	62	65	61
Difference between maximum permissible construction noise level and overall baseline noise level	2	1	4	5	4	2	14	6	9	2	14	4	1	5	1	7	0	6
Background noise correction factor	3	3	2	1	1	2	0	1	1	2	0	1	3	1	3	1	3	1
Corrected noise sensitive receptor criteria	68	58	67	56	66	59	65	56	66	59	65	56	68	61	69	63	68	62

Types of Affected Buildings	Noise Criteria for $L_{Aeq(1hr)}$, dB (Monday to Saturday)			
	N8		NM1	
	7pm – 10pm	10pm – 7am	7pm – 10pm	10pm – 7am
Residential buildings located less than 150 m from the construction site where the noise is being emitted				
Construction noise criteria	65	55	65	55
Overall baseline noise level	51	48	53	51
Difference between maximum permissible construction noise level and overall baseline noise level	14	7	12	4
Background noise correction factor	0	1	0	1
Corrected noise sensitive receptor criteria	65	56	65	56

Table 4 Background Noise Correction Calculations for LAeq(5 mins), dB for Weekdays (Monday – Saturday)

Types of Affected Buildings	Noise Criteria for $L_{Aeq(5mins)}$, dB (Monday to Saturday)																										
	N1			N2			N3			N4			N5			N6			N7a			N7b			N7c		
	7am – 7pm	7pm – 10pm	10pm – 7am	7am – 7pm	7pm – 10pm	10pm – 7am	7am – 7pm	7pm – 7am	10pm – 7am	7am – 7pm	7pm – 7am	10pm – 7am	7am – 7pm	7pm – 7am	10pm – 7am	7am – 7pm	7pm – 7am	10pm – 7am	7am – 7pm	7pm – 7am	10pm – 7am	7am – 7pm	7pm – 7am	10pm – 7am	7am – 7pm	7pm – 7am	10pm – 7am
(a) Hospitals, schools, institutions of higher learning, homes for the aged or sick etc.																											
Construction noise criteria	75	55	55	75	55	55	75	55	55	75	55	55	75	55	55	75	55	55	75	55	55	75	55	55	75	55	55
Overall baseline noise level	65	62	52	61	61	49	63	61	57	0	51	49	58	54	53	52	51	51	65	64	60	68	66	62	67	65	61
Difference between maximum permissible construction noise level and overall baseline noise level	10	7	3	14	6	6	12	6	2	75	4	6	17	1	2	23	4	4	10	9	5	7	11	7	8	10	6
Background noise correction factor	1	1	2	0	1	1	0	1	2	0	2	1	0	3	3	0	2	1	1	1	1	1	0	1	1	0	1
Corrected noise sensitive receptor criteria	76	63	57	75	62	56	75	62	59	75	57	56	75	58	58	75	57	56	76	65	61	76	66	63	76	65	62
(b) Residential buildings located less than 150 m from the construction site where the noise is being emitted																											
Construction noise criteria	90	70	55	90	70	55	90	70	55	90	70	55	90	70	55	90	70	55	90	70	55	90	70	55	90	70	55
Overall baseline noise level	65	62	52	61	61	49	63	61	57	0	51	49	58	54	53	52	51	51	65	64	60	68	66	62	67	65	61
Difference between maximum permissible construction noise level and overall baseline noise level	25	8	3	29	9	6	27	9	2	90	19	6	32	16	2	38	19	4	25	6	5	22	4	7	23	5	6
Background noise correction factor	0	1	2	0	1	1	0	1	2	0	0	1	0	0	3	0	0	1	0	1	1	0	2	1	0	1	1
Corrected noise sensitive receptor criteria	90	71	57	90	71	56	90	71	59	90	70	56	90	70	58	90	70	56	90	71	61	90	72	63	90	71	62
(c) Buildings (other than those in paragraphs (a) and (b))																											
Construction noise criteria	90	70	70	90	70	70	90	70	70	90	70	70	90	70	70	90	70	70	90	70	70	90	70	70	90	70	70
Overall baseline noise level	65	62	52	61	61	49	63	61	57	0	51	49	58	54	53	52	51	51	65	64	60	68	66	62	67	65	61
Difference between maximum permissible construction noise level and overall baseline noise level	25	8	18	29	9	21	27	9	13	90	19	21	32	16	17	38	19	19	25	6	10	22	4	8	23	5	9
Background noise correction factor	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	1	0	1	1
Corrected noise sensitive receptor criteria	90	71	70	90	71	70	90	71	70	90	70	70	90	70	70	90	70	70	90	71	70	90	72	71	90	71	71

Types of Affected Buildings	Noise Criteria for $L_{Aeq(5mins)}$, dB (Monday to Saturday)					
	N8			NM1		
	7am – 7pm	7pm – 7am	10pm – 7am	7am – 7pm	7pm – 7am	10pm – 7am
(a) Hospitals, schools, institutions of higher learning, homes for the aged or sick etc.						
Construction noise criteria	75	55	55	75	55	55
Overall baseline noise level	51	51	48	55	53	51
Difference between maximum permissible construction noise level and overall baseline noise level	24	4	7	20	2	4
Background noise correction factor	0	1	1	0	3	1
Corrected noise sensitive receptor criteria	75	56	56	75	58	56
(b) Residential buildings located less than 150 m from the construction site where the noise is being emitted						
Construction noise criteria	90	70	55	90	70	55
Overall baseline noise level	51	51	48	55	53	51
Difference between maximum permissible construction noise level and overall baseline noise level	39	19	7	35	17	4
Background noise correction factor	0	0	1	0	0	1
Corrected noise sensitive receptor criteria	90	70	56	90	70	56
(c) Buildings (other than those in paragraphs (a) and (b))						
Construction noise criteria	90	70	70	90	70	70
Overall baseline noise level	51	51	48	55	53	51
Difference between maximum permissible construction noise level and overall baseline noise level	39	19	22	35	17	19
Background noise correction factor	0	0	0	0	0	0
Corrected noise sensitive receptor criteria	90	70	70	90	70	70

Table 5 Background Noise Correction Calculations for LAeq(5 mins), dB for Weekend and Public Holidays (Sundays and Public Holidays)

Types of Affected Buildings	Noise Criteria $L_{Aeq(5mins)}$, dB (Sunday & Public Holiday)																										
	N1			N2			N3			N4			N5			N6			N7a			N7b			N7c		
	7am – 7pm	7pm – 10pm	10pm – 7am	7am – 7pm	7pm – 10pm	10pm – 7am	7am – 7pm	7pm – 7am	10pm – 7am	7am – 7pm	7pm – 7am	10pm – 7am	7am – 7pm	7pm – 7am	10pm – 7am	7am – 7pm	7pm – 7am	10pm – 7am	7am – 7pm	7pm – 7am	10pm – 7am	7am – 7pm	7pm – 7am	10pm – 7am	7am – 7pm	7pm – 7am	10pm – 7am
(a) Hospitals, schools, institutions of higher learning, homes for the aged or sick etc.																											
Construction noise criteria	75	55	55	75	55	55	75	55	55	75	55	55	75	55	55	75	55	55	75	55	55	75	55	55	75	55	55
Overall baseline noise level	61	57	57	60	58	54	60	60	56	50	48	47	49	49	51	49	50	50	63	63	58	65	65	61	65	65	60
Difference between maximum permissible construction noise level and overall baseline noise level	14	2	2	15	3	1	15	5	1	25	7	8	26	6	4	26	5	5	12	8	3	10	10	6	10	10	5
Background noise correction factor	0	3	3	0	2	3	0	1	3	0	1	1	0	1	1	0	1	1	0	1	2	1	1	1	0	1	1
Corrected noise sensitive receptor criteria	75	60	60	75	60	58	75	61	59	75	56	56	75	56	56	75	56	56	75	64	60	76	66	62	75	66	61
(b) Residential buildings located less than 150 m from the construction site where the noise is being emitted																											
Construction noise criteria	75	55	55	75	55	55	75	55	55	75	55	55	75	55	55	75	55	55	75	55	55	75	55	55	75	55	55
Overall baseline noise level	61	57	57	60	58	54	60	60	56	50	48	47	49	49	51	49	50	50	63	63	58	65	65	61	65	65	60
Difference between maximum permissible construction noise level and overall baseline noise level	14	2	2	15	3	1	15	5	1	25	7	8	26	6	4	26	5	5	12	8	3	10	10	6	10	10	5
Background noise correction factor	0	3	3	0	2	3	0	1	3	0	1	1	0	1	1	0	1	1	0	1	2	1	1	1	0	1	1
Corrected noise sensitive receptor criteria	75	60	60	75	60	58	75	61	59	75	56	56	75	56	56	75	56	56	75	64	60	76	66	62	75	66	61
(c) Buildings (other than those in paragraphs (a) and (b))																											
Construction noise criteria	90	70	70	90	70	70	90	70	70	90	70	70	90	70	70	90	70	70	90	70	70	90	70	70	90	70	70
Overall baseline noise level	61	57	57	60	58	54	60	60	56	50	48	47	49	49	51	49	50	50	63	63	58	65	65	61	65	65	60

Types of Affected Buildings	Noise Criteria $L_{Aeq(5mins)}$, dB (Sunday & Public Holiday)																										
	N1			N2			N3			N4			N5			N6			N7a			N7b			N7c		
	7am – 7pm	7pm – 10pm	10pm – 7am	7am – 7pm	7pm – 10pm	10pm – 7am	7am – 7pm	7pm – 7am	10pm – 7am	7am – 7pm	7pm – 7am	10pm – 7am	7am – 7pm	7pm – 7am	10pm – 7am	7am – 7pm	7pm – 7am	10pm – 7am	7am – 7pm	7pm – 7am	10pm – 7am	7am – 7pm	7pm – 7am	10pm – 7am	7am – 7pm	7pm – 7am	10pm – 7am
Difference between maximum permissible construction noise level and overall baseline noise level	29	13	13	30	12	16	30	10	14	40	22	23	41	21	19	41	20	20	27	7	12	25	5	9	25	5	10
Background noise correction factor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	1	0
Corrected noise sensitive receptor criteria	90	70	70	90	70	70	90	70	70	90	70	70	90	70	70	90	70	70	90	71	70	90	71	71	90	71	70

XX

Types of Affected Buildings	Noise Criteria $L_{Aeq(5mins)}$, dB (Sunday & Public Holiday)					
	N8			NM1		
	7am – 7pm	7pm – 7am	10pm – 7am	7am – 7pm	7pm – 7am	10pm – 7am
(a) Hospitals, schools, institutions of higher learning, homes for the aged or sick etc.						
Construction noise criteria	75	55	55	75	55	55
Overall baseline noise level	51	50	49	52	51	51
Difference between maximum permissible construction noise level and overall baseline noise level	24	5	6	23	4	4
Background noise correction factor	0	1	1	0	1	1
Corrected noise sensitive receptor criteria	75	56	56	75	56	56
(b) Residential buildings located less than 150 m from the construction site where the noise is being emitted						
Construction noise criteria	75	55	55	75	55	55
Overall baseline noise level	51	50	49	52	51	51

Types of Affected Buildings	Noise Criteria $L_{Aeq(5mins)}$, dB (Sunday & Public Holiday)					
	N8			NM1		
	7am – 7pm	7pm – 7am	10pm – 7am	7am – 7pm	7pm – 7am	10pm – 7am
Difference between maximum permissible construction noise level and overall baseline noise level	24	5	6	23	4	4
Background noise correction factor	0	1	1	0	1	1
Corrected noise sensitive receptor criteria	75	56	56	75	56	56
(c) Buildings (other than those in paragraphs (a) and (b))						
Construction noise criteria	90	70	70	90	70	70
Overall baseline noise level	51	50	49	52	51	51
Difference between maximum permissible construction noise level and overall baseline noise level	39	20	21	38	19	19
Background noise correction factor	0	0	0	0	0	0
Corrected noise sensitive receptor criteria	90	70	70	90	70	70

Appendix W

Airborne Noise Prediction – Construction Phase

Scenario 1: Advanced Works, Base Scenario (DAY)

Table 1 Summary of Airborne Noise Prediction within Biodiversity Study Area for LAeq(5 mins), dB, Base Scenario (Ecological Receptors), 7am – 7pm (Day Time)

Assessment Scenario(s)	Ecological Receptor Sensitivity	Maximum Predicted Noise Level, dB(A)	Predicted Noise Exceedances, dB(A)	Impact Intensity	Impact Consequence	Likelihood of Occurrence	Maximum Overall Impact Significance
Scenario 1: Advanced Works	Priority 1	73.0	19.0	High	High	Likely	Major
	Priority 2	58.0	4.0	High	Medium	Likely	Moderate

Table 2 Summary of percentage distribution of area of Impact Significance within Biodiversity Study Area for LAeq(5 mins), dB, Scenario 1: Advanced Works, Base Scenario (Ecological Receptors), 7am – 7pm (Day Time)

Impact Significance	Distribution of Impact Significance by area, ha	Percentage distribution of Impact Significance by area, %
Major	10.9	14.0
Moderate	24.6	31.7
Minor	41.2	53.1
Negligible	0.9	1.2
Total	77.6	100.0

Scenario 1: Advanced Works, Mitigated Scenario (DAY)

Table 3 Summary of Airborne Noise Prediction within Biodiversity Study Area for LAeq(5 mins), dB, Mitigated Scenario (Ecological Receptors), 7am – 7pm (Day Time)

Assessment Scenario(s)	Ecological Receptor Sensitivity	Maximum Predicted Noise Level, dB(A)	Predicted Noise Exceedances, dB(A)	Impact Intensity	Impact Consequence	Likelihood of Occurrence	Maximum Overall Impact Significance
Scenario 1: Advanced Works	Priority 1	73.0	19.0	High	High	Likely	Major
	Priority 2	54.0	0.0	Negligible	Medium	Likely	Moderate

Table 4 Summary of percentage distribution of area of Impact Significance within Biodiversity Study Area for LAeq(5 mins), dB, Scenario 1: Advanced Works, Mitigated Scenario (Ecological Receptors), 7am – 7pm (Day Time)

Impact Significance	Distribution of Impact Significance by area, ha	Percentage distribution of Impact Significance by area, %
Major	7.2	9.3
Moderate	13.6	17.5
Minor	52.9	68.2
Negligible	3.9	5.0
Total	77.6	100.0

Scenario 2a: Main Civil Works, Earth Retaining Stabilising Structure, Base Scenario (DAY)

Table 5 Summary of Airborne Noise Prediction within Biodiversity Study Area for LAeq(5 mins), dB, Base Scenario (Ecological Receptors), 7am – 7pm (Day Time)

Assessment Scenario(s)	Ecological Receptor Sensitivity	Maximum Predicted Noise Level, dB(A)	Predicted Noise Exceedances, dB(A)	Impact Intensity	Impact Consequence	Likelihood of Occurrence	Maximum Overall Impact Significance
Scenario 1: Advanced Works	Priority 1	81.0	27.0	High	High	Likely	Major
	Priority 2	70.0	16.0	High	Medium	Likely	Moderate

Table 6 Summary of percentage distribution of area of Impact Significance within Biodiversity Study Area for LAeq(5 mins), dB, Scenario 2a: Main Civil Works, Earth Retaining Stabilising Structure, Base Scenario (Ecological Receptors), 7am – 7pm (Day Time)

Impact Significance	Distribution of Impact Significance by area, ha	Percentage distribution of Impact Significance by area, %
Major	20.2	26.1
Moderate	19.0	24.5
Minor	38.2	49.3
Negligible	0.1	0.1
Total	77.5	100.0

Scenario 2a: Main Civil Works, Earth Retaining Stabilising Structure, Base Scenario (Cumulative) (NIGHT)

Table 7 Summary of Airborne Noise Prediction within Biodiversity Study Area for LAeq(5 mins), dB, Base Scenario (Ecological Receptors), 7pm – 7am (Night Time)

Assessment Scenario(s)	Ecological Receptor Sensitivity	Maximum Predicted Noise Level, dB(A)	Predicted Noise Exceedances, dB(A)	Impact Intensity	Impact Consequence	Likelihood of Occurrence	Maximum Overall Impact Significance
Scenario 1: Advanced Works	Priority 1	81.0	27.0	High	High	Likely	Major
	Priority 2	62.0	8.0	High	Medium	Likely	Moderate

Table 8 Summary of percentage distribution of area of Impact Significance within Biodiversity Study Area for LAeq(5 mins), dB, Scenario 2a: Main Civil Works, Earth Retaining Stabilising Structure, Base Scenario (Ecological Receptors), 7pm – 7am (Night Time)

Impact Significance	Distribution of Impact Significance by area, ha	Percentage distribution of Impact Significance by area, %
Major	5.1	6.6
Moderate	9.5	12.3
Minor	56.8	73.3
Negligible	6.1	7.8
Total	77.5	100.0

Scenario 2a: Main Civil Works, Earth Retaining Stabilising Structure, Mitigated Scenario (DAY)

Table 9 Summary of Airborne Noise Prediction within Biodiversity Study Area for LAeq(5 mins), dB, Mitigated Scenario (Ecological Receptors), 7am – 7pm (Day Time)

Assessment Scenario(s)	Ecological Receptor Sensitivity	Maximum Predicted Noise Level, dB(A)	Predicted Noise Exceedances, dB(A)	Impact Intensity	Impact Consequence	Likelihood of Occurrence	Maximum Overall Impact Significance
Scenario 1: Advanced Works	Priority 1	84.0	30.0	High	High	Likely	Major
	Priority 2	77.0	23.0	High	Medium	Likely	Moderate

Table 10 Summary of percentage distribution of area of Impact Significance within Biodiversity Study Area for LAeq(5 mins), dB, Scenario 2a: Main Civil Works, Earth Retaining Stabilising Structure, Mitigated Scenario (Ecological Receptors), 7am – 7pm (Day Time)

Impact Significance	Distribution of Impact Significance by area, ha	Percentage distribution of Impact Significance by area, %
Major	9.2	11.9
Moderate	18.2	23.5
Minor	49.4	63.7
Negligible	0.7	0.9
Total	77.5	100.0

Scenario 2a: Main Civil Works, Earth Retaining Stabilising Structure, Mitigated Scenario (NIGHT)

Table 11 Summary of Airborne Noise Prediction within Biodiversity Study Area for LAeq(5 mins), dB, Mitigated Scenario (Ecological Receptors), 7pm – 7am (Night Time)

Assessment Scenario(s)	Ecological Receptor Sensitivity	Maximum Predicted Noise Level, dB(A)	Predicted Noise Exceedances, dB(A)	Impact Intensity	Impact Consequence	Likelihood of Occurrence	Maximum Overall Impact Significance
Scenario 1: Advanced Works	Priority 1	72.0		High	High	Likely	Major
	Priority 2	50.0		High	Medium	Likely	Moderate

Table 12 Summary of percentage distribution of area of Impact Significance within Biodiversity Study Area for LAeq(5 mins), dB, Scenario 2a: Main Civil Works, Earth Retaining Stabilising Structure, Mitigated Scenario (Ecological Receptors), 7pm – 7am (Night Time)

Impact Significance	Distribution of Impact Significance by area, ha	Percentage distribution of Impact Significance by area, %
Major	0.1	0.1
Moderate	0.2	0.3
Minor	67.7	87.3
Negligible	9.5	12.3
Total	77.5	100.0

Scenario 2b: Main Civil Works, Docking Shaft Construction with Traffic Deck, Mitigated Scenario (DAY)

Table 13 Summary of Airborne Noise Prediction within Biodiversity Study Area for LAeq(5 mins), dB, Mitigated Scenario (Ecological Receptors), 7am – 7pm (Day Time)

Assessment Scenario(s)	Ecological Receptor Sensitivity	Maximum Predicted Noise Level, dB(A)	Predicted Noise Exceedances, dB(A)	Impact Intensity	Impact Consequence	Likelihood of Occurrence	Maximum Overall Impact Significance
Scenario 1: Advanced Works	Priority 1	84.0	30.0	High	High	Likely	Major
	Priority 2	77.0	23.0	High	Medium	Likely	Moderate

Table 14 Summary of percentage distribution of area of Impact Significance within Biodiversity Study Area for LAeq(5 mins), dB, Scenario 2b: Main Civil Works, Docking Shaft Construction with Traffic Deck, Mitigated Scenario (Ecological Receptors), 7am – 7pm (Day Time)

Impact Significance	Distribution of Impact Significance by area, ha	Percentage distribution of Impact Significance by area, %
Major	9.2	11.9
Moderate	18.2	23.5
Minor	49.4	63.7
Negligible	0.7	0.9
Total	77.5	100.0

Scenario 2b: Main Civil Works, Docking Shaft Construction with Traffic Deck, Mitigated Scenario (NIGHT)

Table 15 Summary of Airborne Noise Prediction within Biodiversity Study Area for LAeq(5 mins), dB, Mitigated Scenario (Ecological Receptors), 7pm – 7am (Night Time)

Assessment Scenario(s)	Ecological Receptor Sensitivity	Maximum Predicted Noise Level, dB(A)	Predicted Noise Exceedances, dB(A)	Impact Intensity	Impact Consequence	Likelihood of Occurrence	Maximum Overall Impact Significance
Scenario 1: Advanced Works	Priority 1	72.0	18.0	High	High	Likely	Major
	Priority 2	50.0	-	High	Medium	Likely	Moderate

Table 16 Summary of percentage distribution of area of Impact Significance within Biodiversity Study Area for LAeq(5 mins), dB, Scenario 2b: Main Civil Works, Docking Shaft Construction with Traffic Deck, Mitigated Scenario (Ecological Receptors), 7pm – 7am (Night Time)

Impact Significance	Distribution of Impact Significance by area, ha	Percentage distribution of Impact Significance by area, %
Major	0.1	0.1
Moderate	0.2	0.3
Minor	67.7	87.3
Negligible	9.5	12.3
Total	77.5	100.0

Scenario 2b: Main Civil Works, Docking Shaft Construction with Traffic Deck and Enclosure, Mitigated Scenario (DAY)

Table 17 Summary of Airborne Noise Prediction within Biodiversity Study Area for LAeq(5 mins), dB, Mitigated Scenario (Ecological Receptors), 7am – 7pm (Day Time)

Assessment Scenario(s)	Ecological Receptor Sensitivity	Maximum Predicted Noise Level, dB(A)	Predicted Noise Exceedances, dB(A)	Impact Intensity	Impact Consequence	Likelihood of Occurrence	Maximum Overall Impact Significance
Scenario 1: Advanced Works	Priority 1	84.0	30.0	High	High	Likely	Major
	Priority 2	77.0	23.0	High	Medium	Likely	Moderate

Table 18 Summary of percentage distribution of area of Impact Significance within Biodiversity Study Area for LAeq(5 mins), dB, Scenario 2b: Main Civil Works, Docking Shaft Construction with Traffic Deck and Enclosure, Mitigated Scenario (Ecological Receptors), 7am – 7pm (Day Time)

Impact Significance	Distribution of Impact Significance by area, ha	Percentage distribution of Impact Significance by area, %
Major	9.2	11.9
Moderate	18.2	23.5
Minor	49.4	63.7
Negligible	0.7	0.9
Total	77.5	100.0

Scenario 2a: Main Civil Works, Docking Shaft Construction with Traffic Deck, Mitigated Scenario (Cumulative) (NIGHT)

Table 19 Summary of Airborne Noise Prediction within Biodiversity Study Area for LAeq(5 mins), dB, Base Scenario (Ecological Receptors), 7pm – 7am (Night Time)

Assessment Scenario(s)	Ecological Receptor Sensitivity	Maximum Predicted Noise Level, dB(A)	Predicted Noise Exceedances, dB(A)	Impact Intensity	Impact Consequence	Likelihood of Occurrence	Maximum Overall Impact Significance
Scenario 1: Advanced Works	Priority 1	71.0	17.0	High	High	Likely	Major
	Priority 2	50.0	-	Negligible	Imperceptible	Likely	Negligible

Table 20 Summary of percentage distribution of area of Impact Significance within Biodiversity Study Area for LAeq(5 mins), dB, Scenario 2b: Main Civil Works, Docking Shaft Construction with Traffic Deck and Enclosure, Mitigated Scenario (Ecological Receptors), 7pm – 7am (Night Time)

Impact Significance	Distribution of Impact Significance by area, ha	Percentage distribution of Impact Significance by area, %
Major	0.1	0.1
Moderate	0.2	0.3
Minor	67.7	87.3
Negligible	9.5	12.3
Total	77.5	100.0

Scenario 3: Potential future infrastructure, reception track cut and cover areas, and vehicular bridge construction, Base Scenario (DAY)

Table 21 Summary of Airborne Noise Prediction within Biodiversity Study Area for LAeq(5 mins), dB, Base Scenario (Ecological Receptors), 7am – 7pm (Day Time)

Assessment Scenario(s)	Ecological Receptor Sensitivity	Maximum Predicted Noise Level, dB(A)	Predicted Noise Exceedances, dB(A)	Impact Intensity	Impact Consequence	Likelihood of Occurrence	Maximum Overall Impact Significance
Scenario 1: Advanced Works	Priority 1	83.0	29.0	High	High	Likely	Major
	Priority 2	88.0	34.0	High	Medium	Likely	Moderate

Table 22 Summary of percentage distribution of area of Impact Significance within Biodiversity Study Area for LAeq(5 mins), dB, Scenario 3: Potential future infrastructure, reception track cut and cover areas, and vehicular bridge construction, Base Scenario (Ecological Receptors), 7am – 7pm (Day Time)

Impact Significance	Distribution of Impact Significance by area, ha	Percentage distribution of Impact Significance by area, %
Major	18.7	24.3
Moderate	21.3	27.7
Minor	36.7	47.7
Negligible	0.3	0.3
Total	77.0	100.0

Scenario 3: Potential future infrastructure, reception track cut and cover areas, and vehicular bridge construction, Base Scenario (NIGHT)

Table 23 Summary of Airborne Noise Prediction within Biodiversity Study Area for LAeq(5 mins), dB, Base Scenario (Ecological Receptors), 7pm – 7am (Night Time)

Assessment Scenario(s)	Ecological Receptor Sensitivity	Maximum Predicted Noise Level, dB(A)	Predicted Noise Exceedances, dB(A)	Impact Intensity	Impact Consequence	Likelihood of Occurrence	Maximum Overall Impact Significance
Scenario 1: Advanced Works	Priority 1	43.0	-	Negligible	Very Low	Likely	Minor
	Priority 2	46.0	-	Negligible	Imperceptible	Likely	Negligible

Table 24 Summary of percentage distribution of area of Impact Significance within Biodiversity Study Area for LAeq(5 mins), dB, Scenario 3: Potential future infrastructure, reception track cut and cover areas, and vehicular bridge construction, Base Scenario (Ecological Receptors), 7pm – 7am (Night Time)

Impact Significance	Distribution of Impact Significance by area, ha	Percentage distribution of Impact Significance by area, %
Major	0.0	0.0
Moderate	0.0	0.0
Minor	67.5	87.7
Negligible	9.5	12.3
Total	77.0	100.0

Scenario 3: Scenario 3: Potential future infrastructure, reception track cut and cover areas, and vehicular bridge construction, Mitigated Scenario (DAY)

Table 25 Summary of Airborne Noise Prediction within Biodiversity Study Area for LAeq(5 mins), dB, Mitigated Scenario (Ecological Receptors), 7am – 7pm (Day Time)

Assessment Scenario(s)	Ecological Receptor Sensitivity	Maximum Predicted Noise Level, dB(A)	Predicted Noise Exceedances, dB(A)	Impact Intensity	Impact Consequence	Likelihood of Occurrence	Maximum Overall Impact Significance
Scenario 1: Advanced Works	Priority 1	72.0	18.0	High	High	Likely	Major
	Priority 2	78.0	24.0	High	Medium	Likely	Moderate

Table 26 Summary of percentage distribution of area of Impact Significance within Biodiversity Study Area for LAeq(5 mins), dB, Scenario 3: Potential future infrastructure, reception track cut and cover areas, and vehicular bridge construction, Mitigated Scenario (Ecological Receptors), 7am – 7pm (Day Time)

Impact Significance	Distribution of Impact Significance by area, ha	Percentage distribution of Impact Significance by area, %
Major	8.8	11.4
Moderate	15.5	20.2
Minor	50.7	65.8
Negligible	2.0	2.6
Total	77.0	100.0

Scenario 3: Scenario 3: Potential future infrastructure, reception track cut and cover areas, and vehicular bridge construction, Mitigated Scenario (NIGHT)

Table 27 Summary of Airborne Noise Prediction within Biodiversity Study Area for LAeq(5 mins), dB, Mitigated Scenario (Ecological Receptors), 7pm – 7am (Night Time)

Assessment Scenario(s)	Ecological Receptor Sensitivity	Maximum Predicted Noise Level, dB(A)	Predicted Noise Exceedances, dB(A)	Impact Intensity	Impact Consequence	Likelihood of Occurrence	Maximum Overall Impact Significance
Scenario 1: Advanced Works	Priority 1	37.0	-	Negligible	Very Low	Likely	Minor
	Priority 2	35.0	-	Negligible	Imperceptible	Likely	Negligible

Table 28 Summary of percentage distribution of area of Impact Significance within Biodiversity Study Area for LAeq(5 mins), dB, Scenario 3: Potential future infrastructure, reception track cut and cover areas, and vehicular bridge construction, Mitigated Scenario (Ecological Receptors), 7pm – 7am (Night Time)

Impact Significance	Distribution of Impact Significance by area, ha	Percentage distribution of Impact Significance by area, %
Major	0.0	0.0
Moderate	0.0	0.0
Minor	67.5	87.7
Negligible	9.5	12.3
Total	77.0	100.0

Appendix X

Baseline Vibration Monitoring Report

Appendix X - Baseline Vibration Monitoring Report

1.1 Measurement Equipment

Baseline vibration monitoring was conducted using the equipment detailed in Table 1-1 below.

Table 1-1 Vibration Monitoring Equipment

S/N	Equipment	Brand	Model	Serial Number	Calibration Date
1	Sound & Vibration Analyser	SVANTEK	SVAN958A	97712	27 April 2021
				97713	27 April 2021
2	Accelerometer	SVANTEK	SV207B	97712	27 April 2021
				97713	27 April 2021

1.2 Methodology

Baseline vibration monitoring includes primary data collection in baseline ground-borne vibration monitoring in the study area. The Peak Particle Velocity (PPV) level is monitored of the criteria. The purpose of the baseline monitoring is to understand the existing vibration levels at the sensitive receptors to establish the impact assessment criteria. If a repeat monitoring event is to be conducted during the construction and operational phase of the Project, this monitoring data can be used as a reference for the existing baseline before any disturbance in the study area.

1.3 Baseline Vibration Monitoring Results

Baseline ground-borne vibration monitoring has been conducted on seventeen (17) locations in proximity to the sensitive receptors and represents the baseline vibration levels of the sensitive receptors. The vibration sources are weather elements and the movement of the ecology in the vicinity. The vibration data monitored at the beginning and end of the monitoring period has been omitted to exclude the vibration caused while setting up and removing the monitoring equipment.

Baseline vibration monitoring locations V1, V2, V7, V8, VR1 to VR4 and VR6 are located near roads/bridges with numerous vehicle activities and passers-by, including cyclists. Location V4 is located near a footpath with passers-by and cyclists. As for the other locations, V3 is close to factories and roads, while V9 is located at a considerable distance from the roads but is still within proximity of rail corridors. These activities within the vicinity are one of the sources of vibration in the Sungei Kadut Industrial Area. VR6 is in the proximity of passers-by and heavy vehicles such as buses, trucks and lorries. V10 & V11 is located near the existing North South Line viaduct that crosses over Sungei Pangsua.

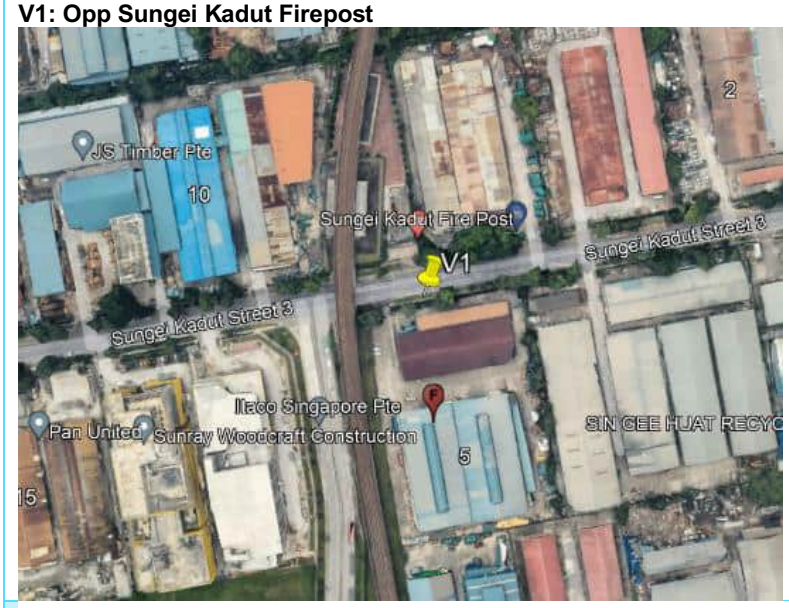
The average and maximum baseline ground-borne vibration levels are summarised in Table 1-2.

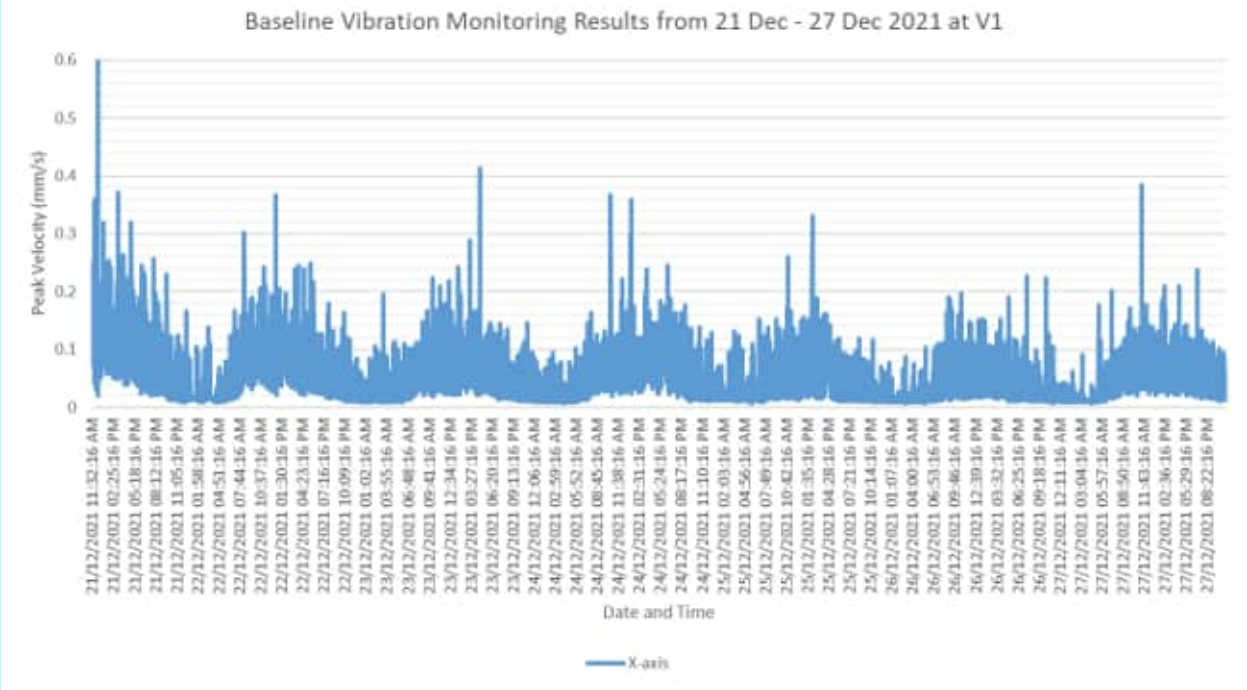
Table 1-2 Summary of Baseline Ground-borne Vibration Levels

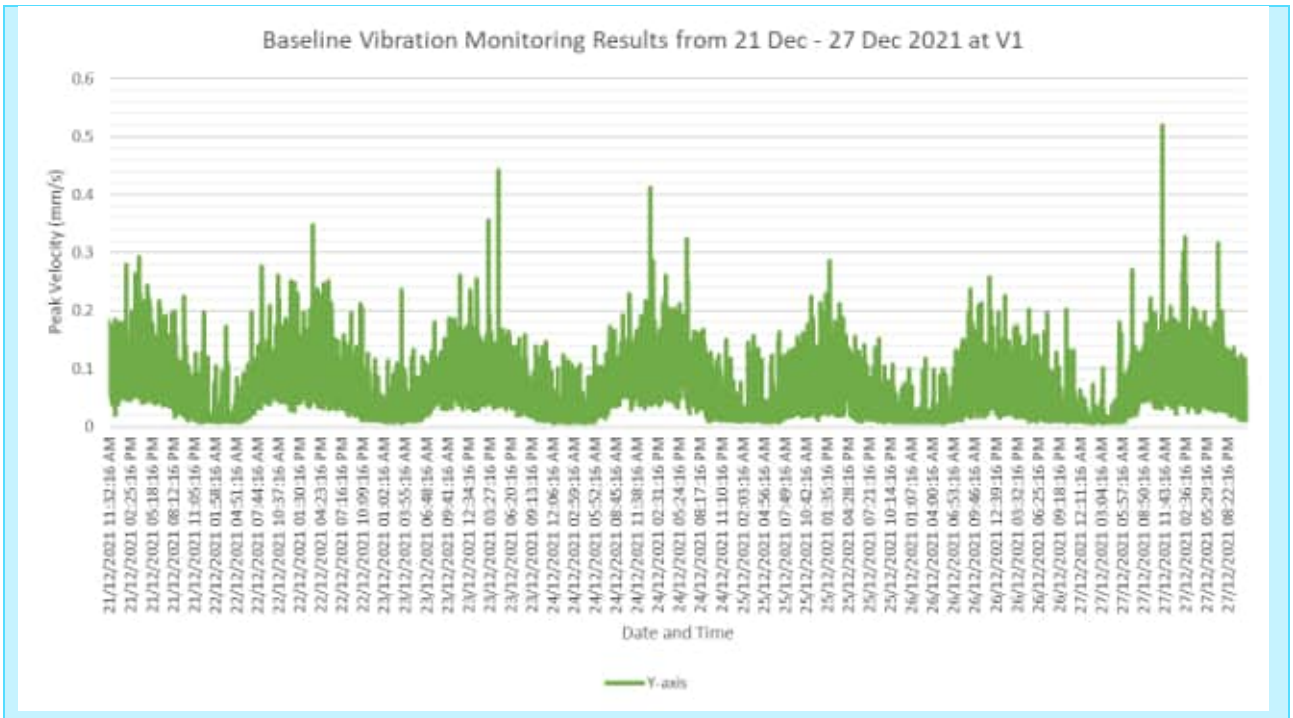
Monitoring Location	Date & Time	Baseline Ground-borne Vibration Levels mm/s			Vibration Sources
		x-axis	*y-axis*	*z-axis*	
V1: Opp Sungei Kadut Firepost	21st December 2021 – 27th December 2021	Average: 0.05 Maximum: 0.60 99th Percentile: 0.19	Average: 0.06 Maximum: 0.52 99th Percentile: 0.19	Average: 0.07 Maximum: 0.59 99th Percentile: 0.23	• Passers-by, cyclists: 1 m • Road traffic: 1 m
V2: Grandwork Interior	3rd February 2022 – 10th February 2022	Average: 0.03 Maximum: 0.92 99th Percentile: 0.08	Average: 0.02 Maximum: 0.79 99th Percentile: 0.07	Average: 0.03 Maximum: 0.86 99th Percentile: 0.09	• Passers-by, cyclists: 1 m • Road traffic:1 m
V3: BHL Factory	10th December 2021 – 16th December 2021	Average: 0.03 Maximum: 0.21 99th Percentile: 0.08	Average: 0.02 Maximum: 0.25 99th Percentile: 0.07	Average: 0.05 Maximum: 0.46 99th Percentile: 0.15	• Factories: 35 m • Road traffic: 30 m
V4: 691B CCK Crescent	2nd December 2021 – 8th	Average: 0.03 Maximum: 0.40	Average: 0.02 Maximum: 0.20	Average: 0.01 Maximum: 0.15	• Passers-by, cyclists: 1 m

Monitoring Location	Date & Time	Baseline Ground-borne Vibration Levels mm/s			Vibration Sources
		x-axis	*y-axis*	*z-axis*	
	December 2021	99th Percentile: 0.06	99th Percentile: 0.06	99th Percentile: 0.03	
V5: Behind 5 Stagmont Ring	24th January 2022 – 31st January 2022	Average: 0.02 Maximum: 0.65 99th Percentile: 0.08	Average: 0.02 Maximum: 0.64 99th Percentile: 0.08	Average: 0.02 Maximum: 0.63 99th Percentile: 0.08	• Passers-by, cyclists: 1 m
V6: 5 Stagmont Ring	24th January 2022 – 31st January 2022	Average: 0.01 Maximum: 0.07 99th Percentile: 0.04	Average: 0.02 Maximum: 0.13 99th Percentile: 0.06	Average: 0.02 Maximum: 0.56 99th Percentile: 0.09	• Passers-by, cyclists: 1 m
V7: Under KJE	3rd February 2022 – 10th February 2022	Average: 0.04 Maximum: 0.26 99th Percentile: 0.07	Average: 0.02 Maximum: 0.25 99th Percentile: 0.05	Average: 0.04 Maximum: 0.62 99th Percentile: 0.09	• Passers-by, cyclists: 20 m • Road traffic: 25 m
V8: 634A Senja Road	2nd December 2021 – 8th December 2021	Average: 0.01 Maximum: 0.07 99th Percentile: 0.02	Average: 0.01 Maximum: 0.12 99th Percentile: 0.02	Average: 0.01 Maximum: 0.10 99th Percentile: 0.03	• Passers-by, cyclists: 2 m • Road traffic: 8 m
V9: Sri Ava Temple	10th December 2021 – 16th December 2021	Average: 0.02 Maximum: 0.21 99th Percentile: 0.04	Average: 0.02 Maximum: 0.11 99th Percentile: 0.04	Average: 0.02 Maximum: 0.17 99th Percentile: 0.07	• Passers-by, cyclists: 8 m • Road traffic: 50 m
VR1: End of Rail Corridor	18th February 2022 – 20th February 2022	Average: 0.01 Maximum: 0.27 99th Percentile: 0.03	Average: 0.01 Maximum: 0.98 99th Percentile: 0.02	Average: 0.01 Maximum: 0.35 99th Percentile: 0.05	• Passers-by, cyclists: 1 m • Road traffic: 7 m
VR2: Near Sri Ava Temple	18th February 2022 – 20th February 2022	Average: 0.02 Maximum: 0.14 99th Percentile: 0.05	Average: 0.02 Maximum: 0.72 99th Percentile: 0.06	Average: 0.02 Maximum: 0.82 99th Percentile: 0.04	• Passers-by, cyclists: 1 m
VR3: Along Rail Corridor Opposite MSCP	14th February 2022 – 17th February 2022	Average: 0.01 Maximum: 0.14 99th Percentile: 0.02	Average: 0.01 Maximum: 0.09 99th Percentile: 0.02	Average: 0.01 Maximum: 0.12 99th Percentile: 0.03	• Passers-by, cyclists: 1 m
VR4: Near 5 Stagmont Ring	14th February 2022 – 17th February 2022	Average: 0.02 Maximum: 0.10 99th Percentile: 0.04	Average: 0.02 Maximum: 1.40 99th Percentile: 0.04	Average: 0.02 Maximum: 0.27 99th Percentile: 0.05	• Passers-by, cyclists: 1 m
VR5: Behind Heavy Vehicle Parking	11th February 2022 – 14th February 2022	Average: 0.02 Maximum: 0.11 99th Percentile: 0.06	Average: 0.02 Maximum: 0.09 99th Percentile: 0.05	Average: 0.03 Maximum: 0.42 99th Percentile: 0.08	• Passers-by: 10 m • Heavy vehicles nearby: 10 m
VR6: Near Junction 10	11th February 2022 – 14th February 2022	Average: 0.02 Maximum: 0.49 99th Percentile: 0.05	Average: 0.02 Maximum: 0.72 99th Percentile: 0.06	Average: 0.02 Maximum: 0.63 99th Percentile: 0.06	• Passers-by, cyclists: 20 m
V11: Beside Existing NSL Viaduct	21st July 2022 – 28th July 2022	Average: 0.06 Maximum: 0.84 99th Percentile: 0.15	Average: 0.06 Maximum: 0.73 99th Percentile: 0.19	Average: 0.07 Maximum: 0.37 99th Percentile: 0.20	• MRT Operation: 5m
V12: Beside Mudlobster Mounds	28th July 2022 – 4th August 2022	Average: 0.07 Maximum: 0.53 99th Percentile: 0.22	Average: 0.06 Maximum: 0.50 99th Percentile: 0.24	Average: 0.06 Maximum: 0.40 99th Percentile: 0.28	• MRT Operation: 65m

Table 1-3 Baseline Vibration Monitoring at Opp Sungei Kadut Firepost

Date / Time: 21st December 2021 – 27th December 2021	
Baseline Vibration Monitoring Location	Setup of Vibration Monitoring
V1: Opp Sungei Kadut Firepost 	




Baseline Vibration Monitoring Results from 21 Dec - 27 Dec 2021 at V1
Peak Velocity (mm/s)
0.6
0.5
0.4
0.3
0.2
0.1
0
Date and Time
Y-axis

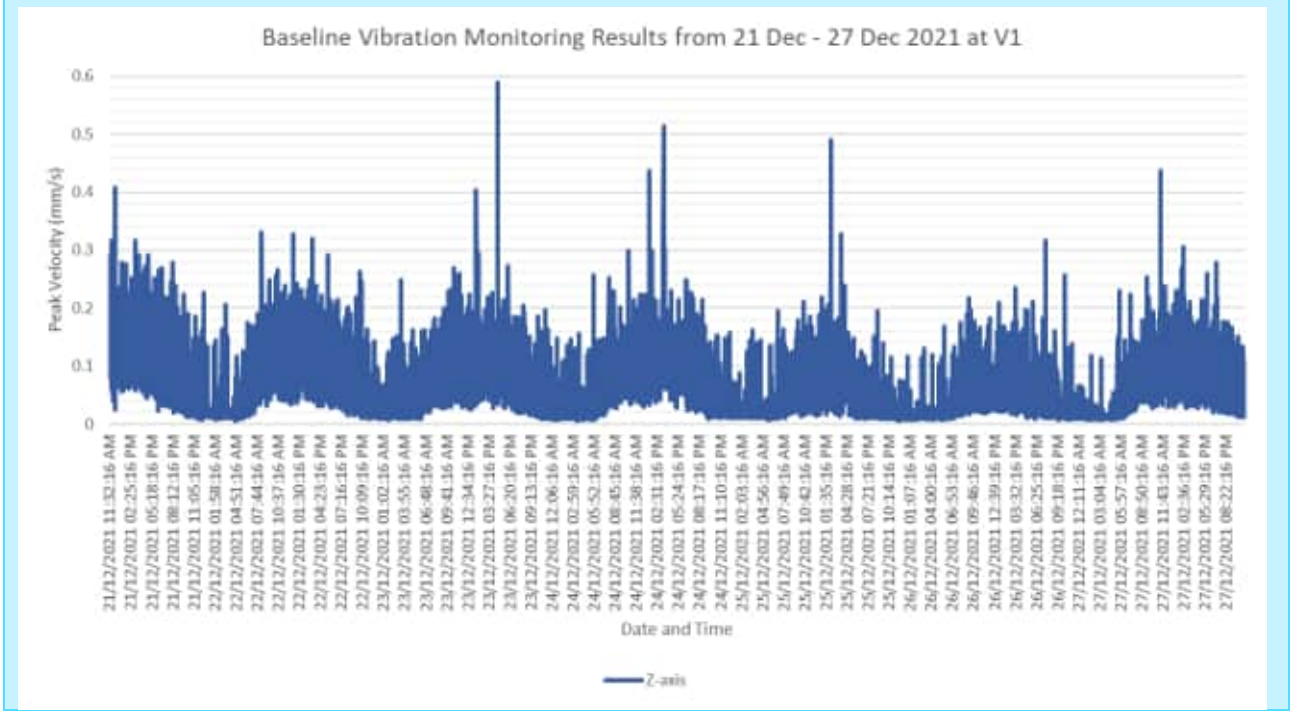
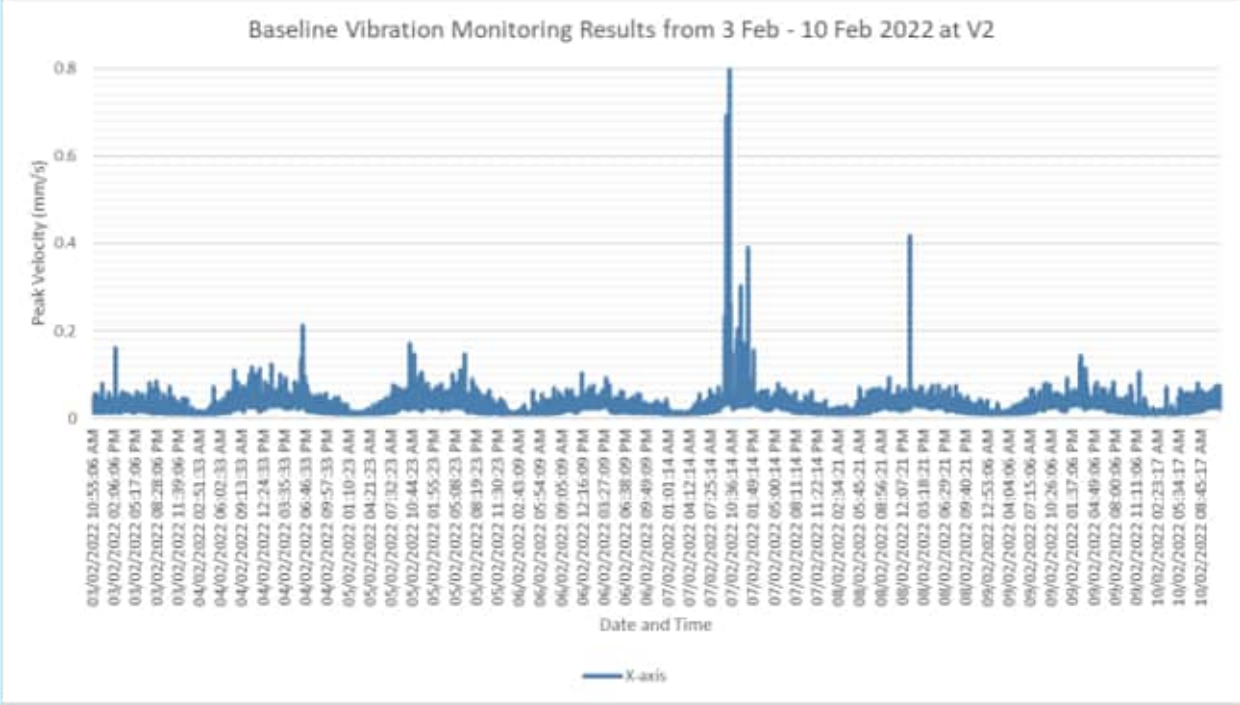
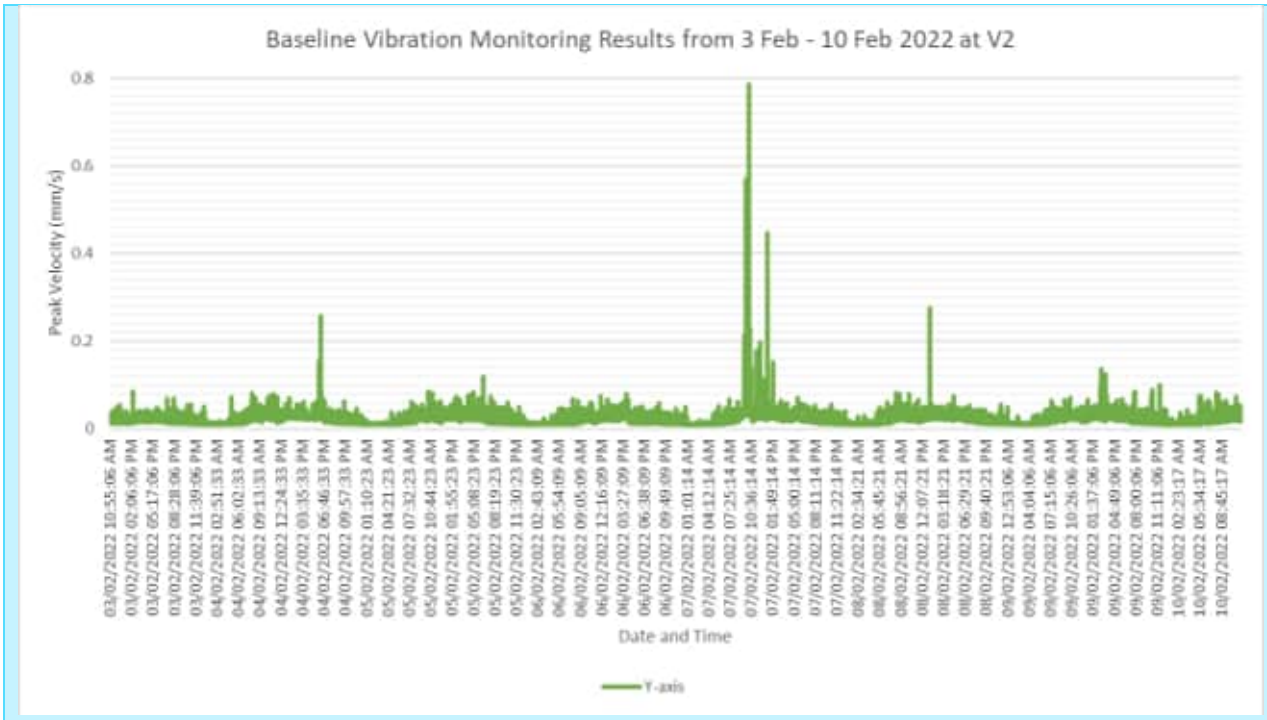

Baseline Vibration Monitoring Results from 21 Dec - 27 Dec 2021 at V1
Peak Velocity (mm/s)
0.6
0.5
0.4
0.3
0.2
0.1
0
Date and Time
Z-axis

Table 1-4 Baseline Vibration Monitoring at Grandwork Interior

Date / Time: 3rd February 2022 – 10th February 2022	
Baseline Vibration Monitoring Location	Setup of Vibration Monitoring
V2: Grandwork Interior	




Baseline Vibration Monitoring Results from 3 Feb - 10 Feb 2022 at V2
Peak Velocity (mm/s)
0.8
0.6
0.4
0.2
0
Date and Time
Y-axis

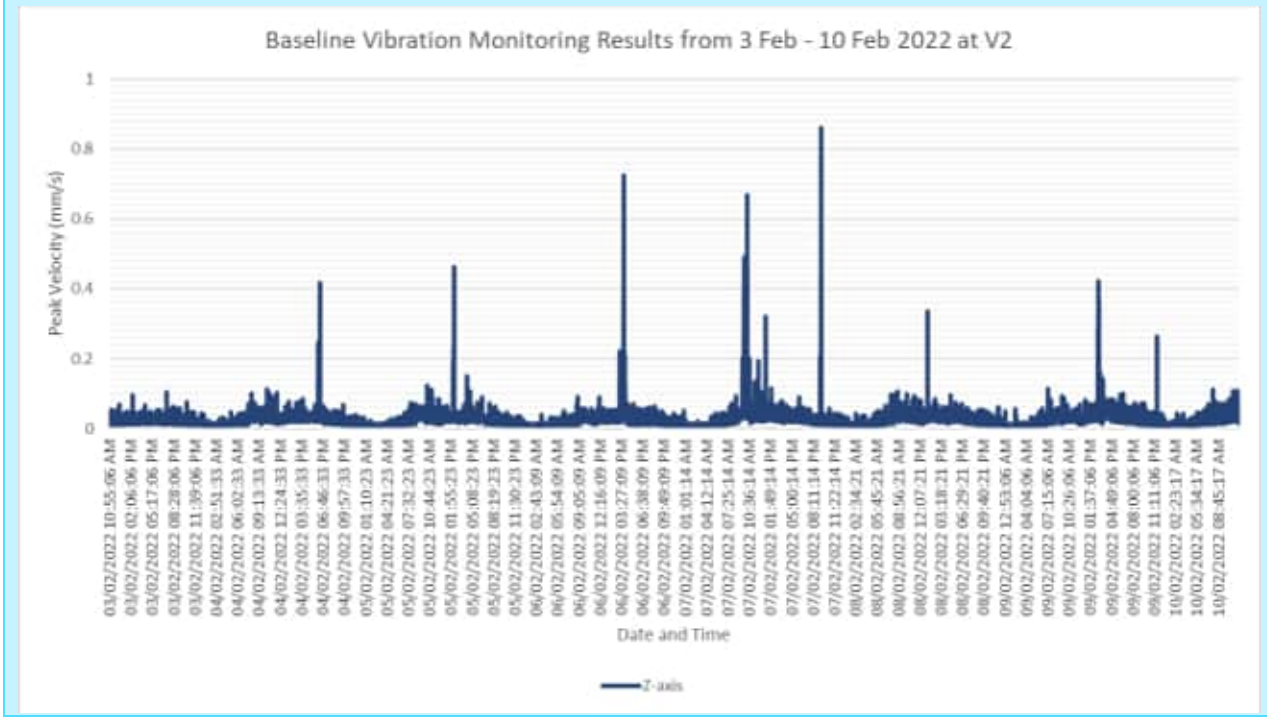
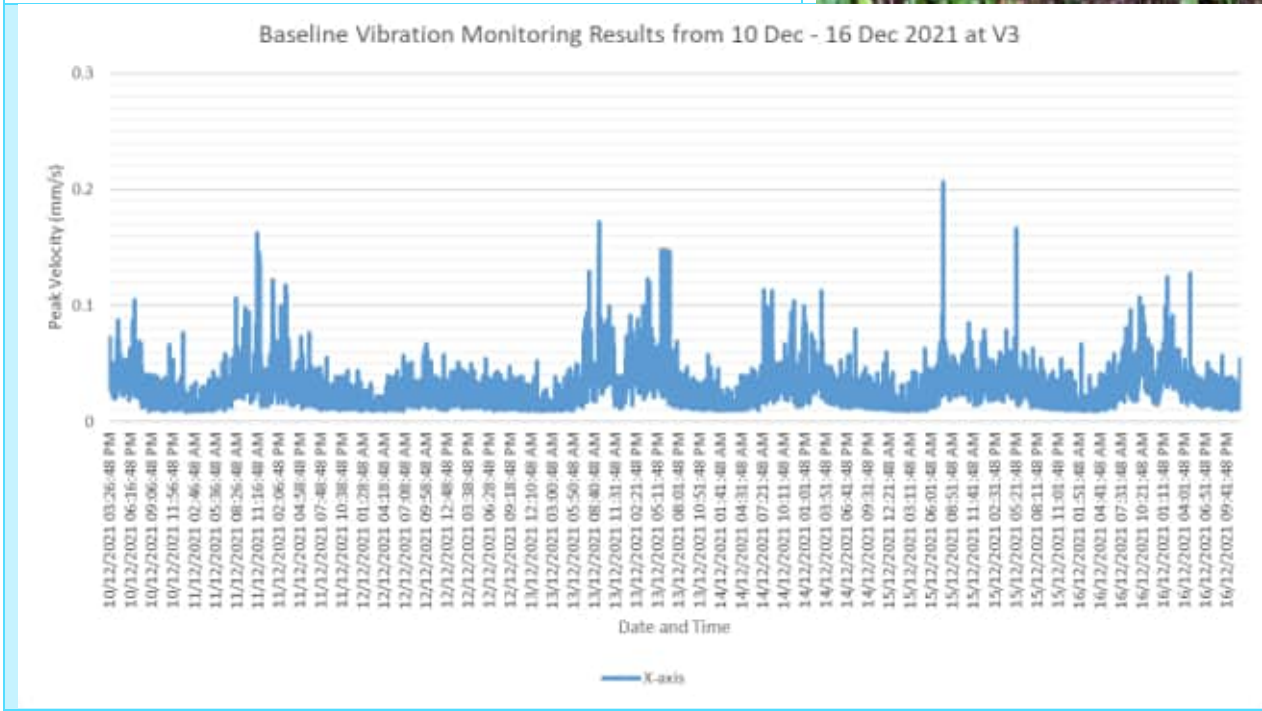
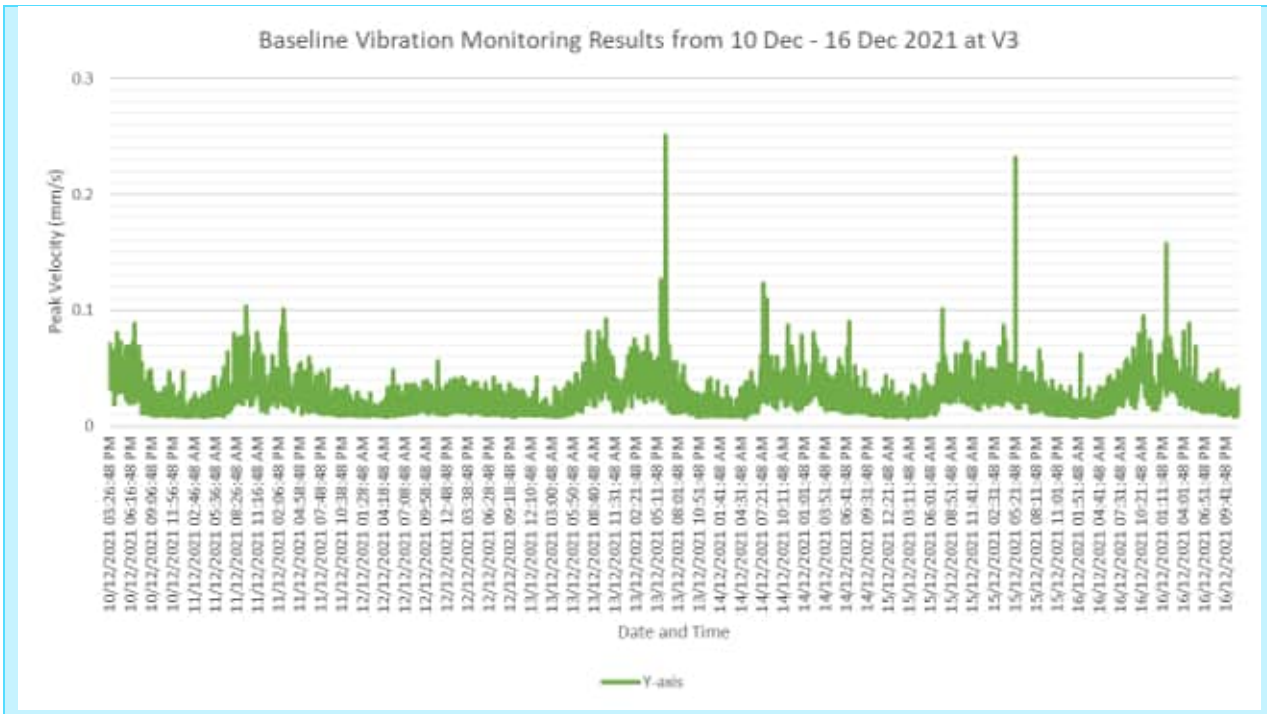

Baseline Vibration Monitoring Results from 3 Feb - 10 Feb 2022 at V2
Peak Velocity (mm/s)
1
0.8
0.6
0.4
0.2
0
Date and Time
Z-axis

Table 1-5 Baseline Vibration Monitoring at BHL Factory

Date / Time: 10th December 2021 – 16th December 2021	
Baseline Vibration Monitoring Location	Setup of Vibration Monitoring
V3: BHL Factory	




Baseline Vibration Monitoring Results from 10 Dec - 16 Dec 2021 at V3
Peak Velocity (mm/s)
0.3
0.2
0.1
0
Date and Time
Y-axis

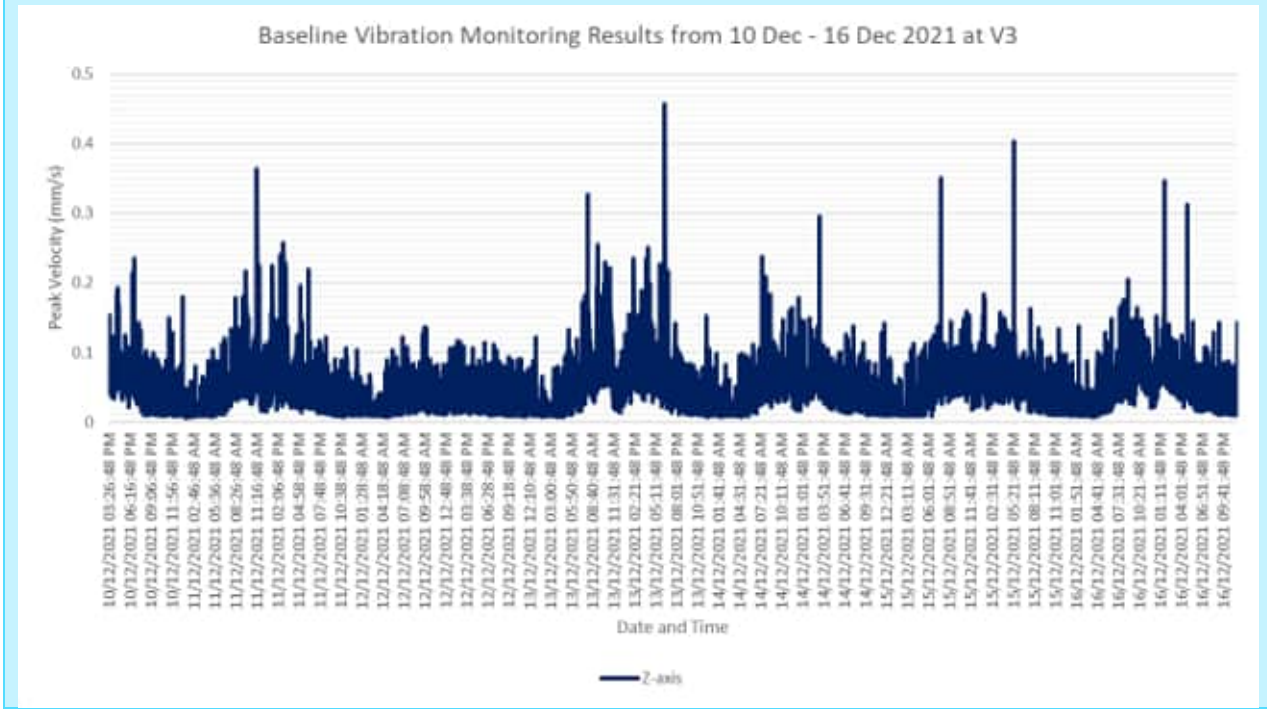
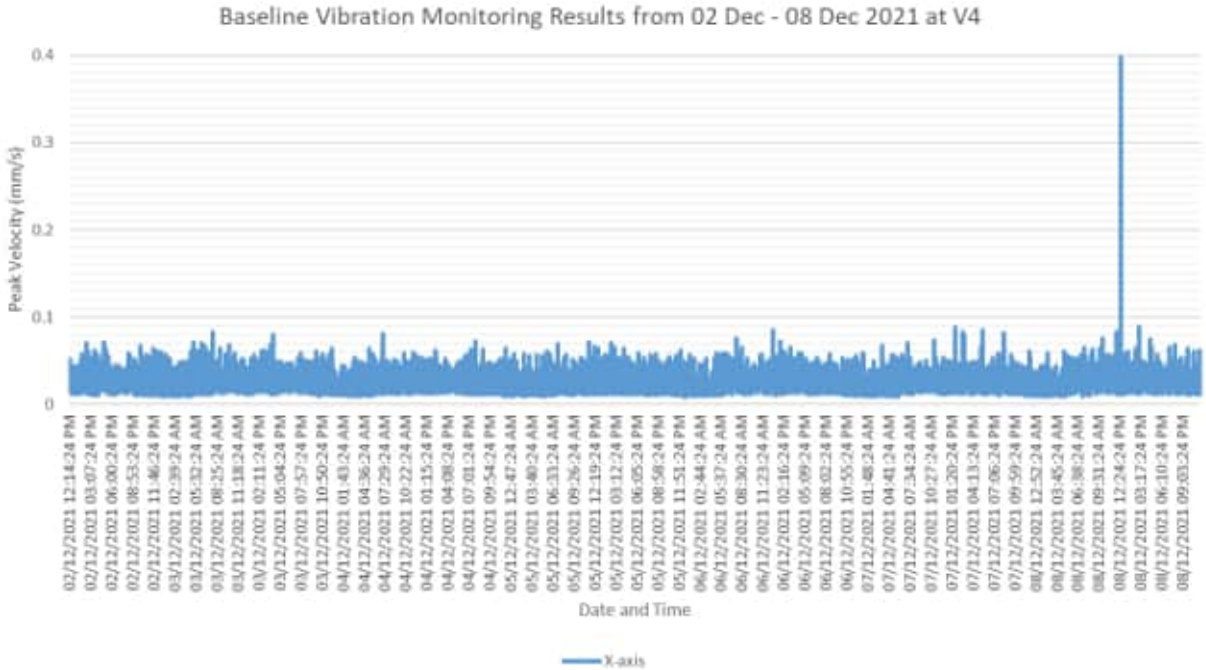

Baseline Vibration Monitoring Results from 10 Dec - 16 Dec 2021 at V3
Peak Velocity (mm/s)
0.5
0.4
0.3
0.2
0.1
0
Date and Time
Z-axis

Table 1-6 Baseline Vibration Monitoring at 691B CCK Crescent

Date / Time: 2nd December 2021 – 8th December 2021	
Baseline Vibration Monitoring Location	Setup of Vibration Monitoring
V4: 691B CCK Crescent	
	

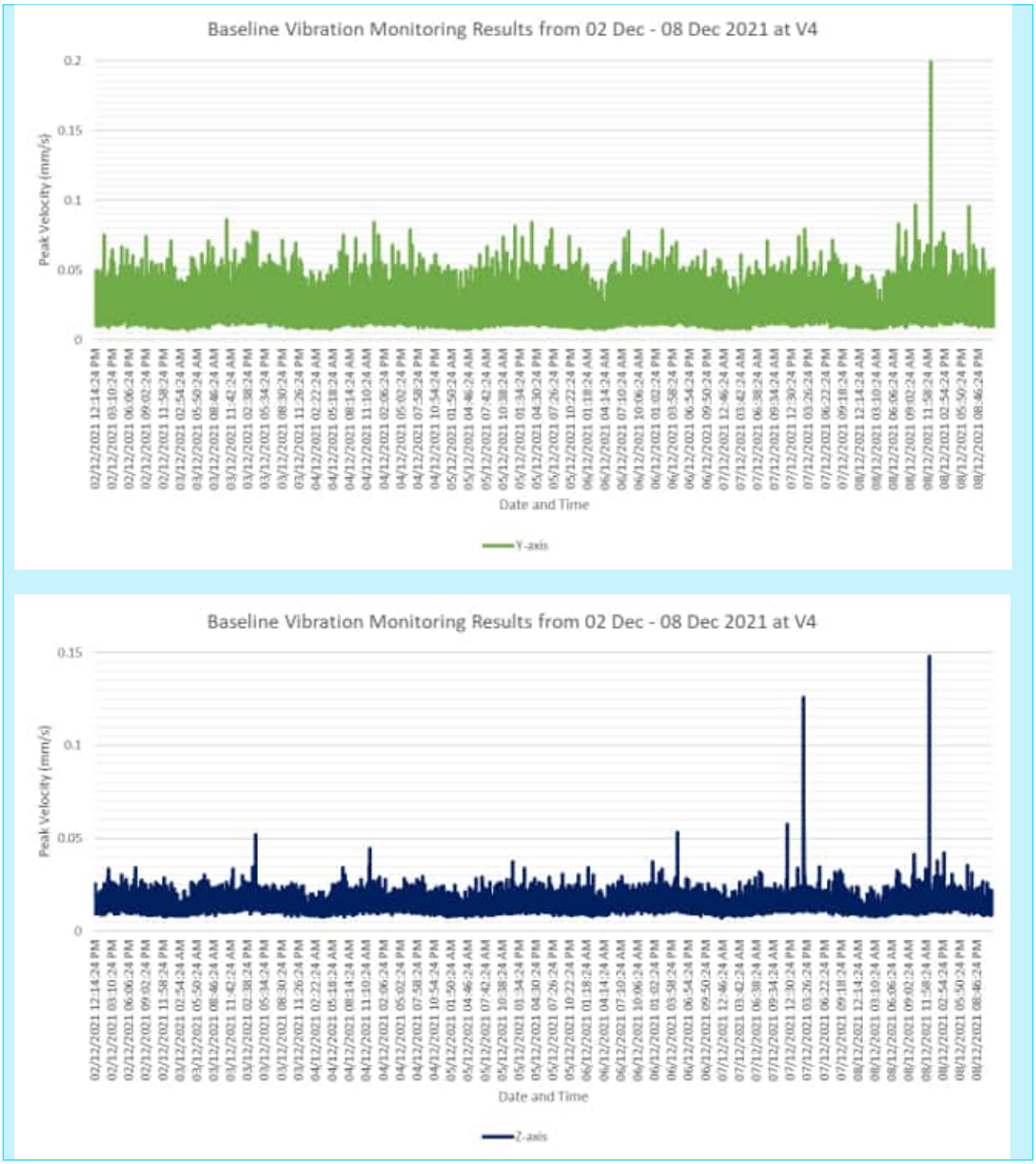
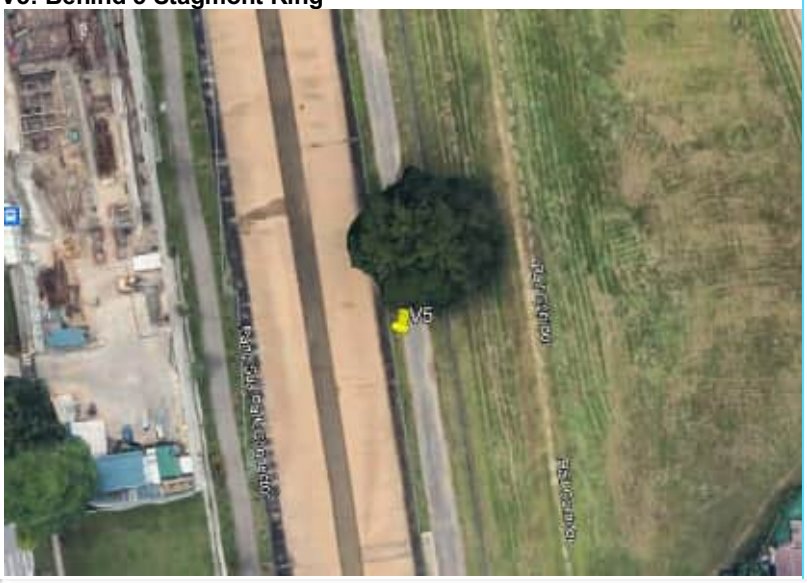
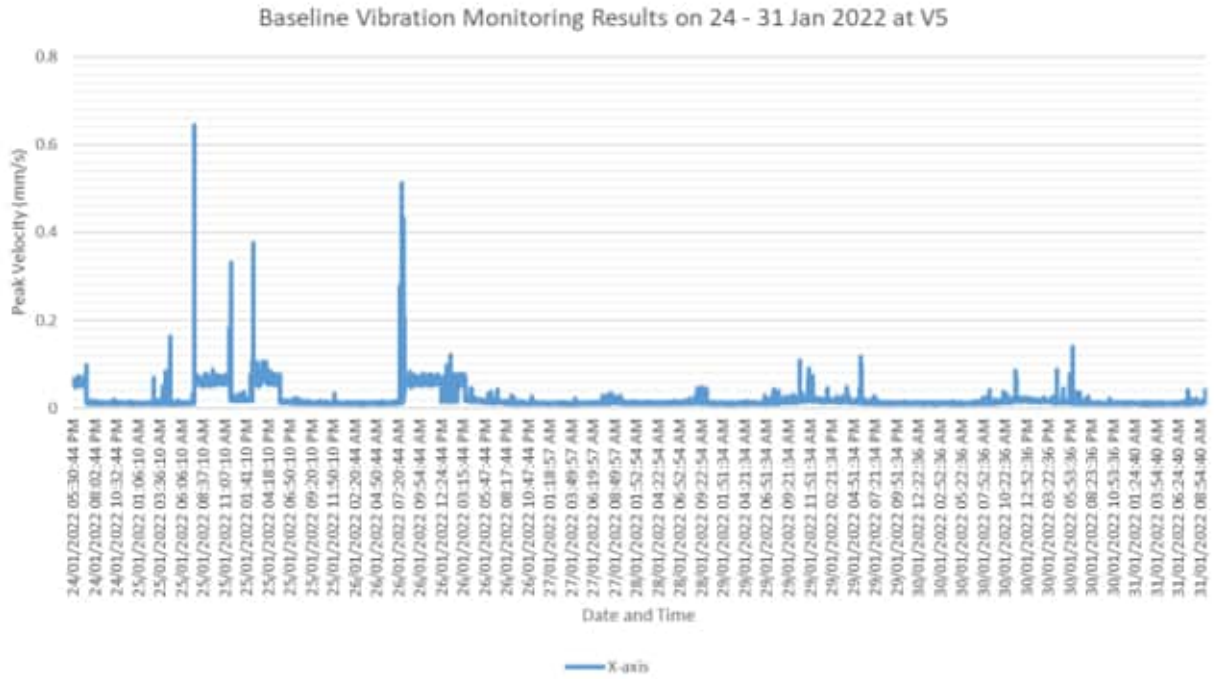

Baseline Vibration Monitoring Results from 02 Dec - 08 Dec 2021 at V4
Peak Velocity (mm/s)
0.2
0.15
0.1
0.05
0
Date and Time
Y-axis
Baseline Vibration Monitoring Results from 02 Dec - 08 Dec 2021 at V4
Peak Velocity (mm/s)
0.15
0.1
0.05
0
Date and Time
Z-axis

Table 1-7 Baseline Vibration Monitoring at Behind 5 Stagmont Ring

Date / Time: 24th January 2022 – 31st January 2022	
Baseline Vibration Monitoring Location	Setup of Vibration Monitoring
V5: Behind 5 Stagmont Ring 	



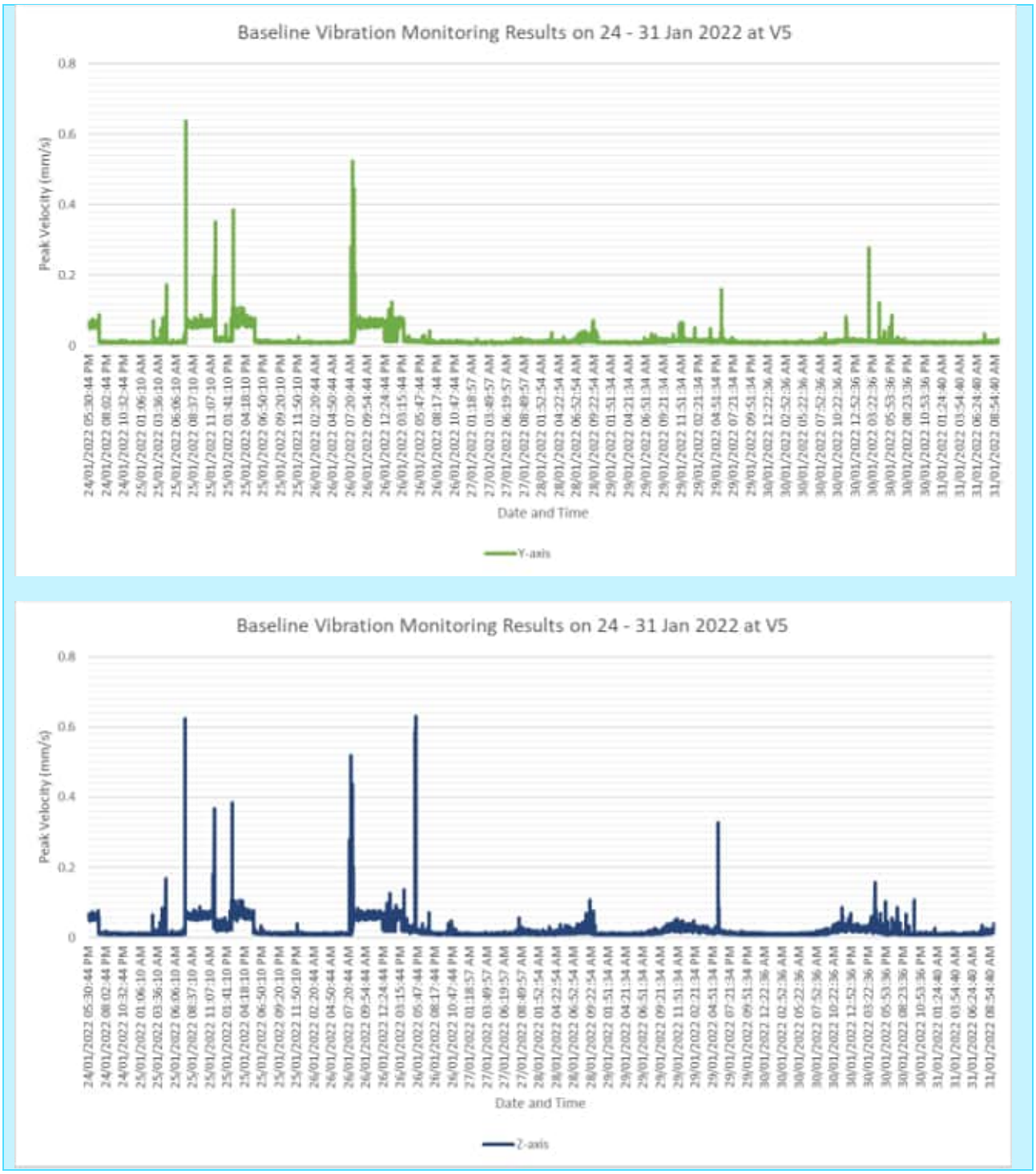
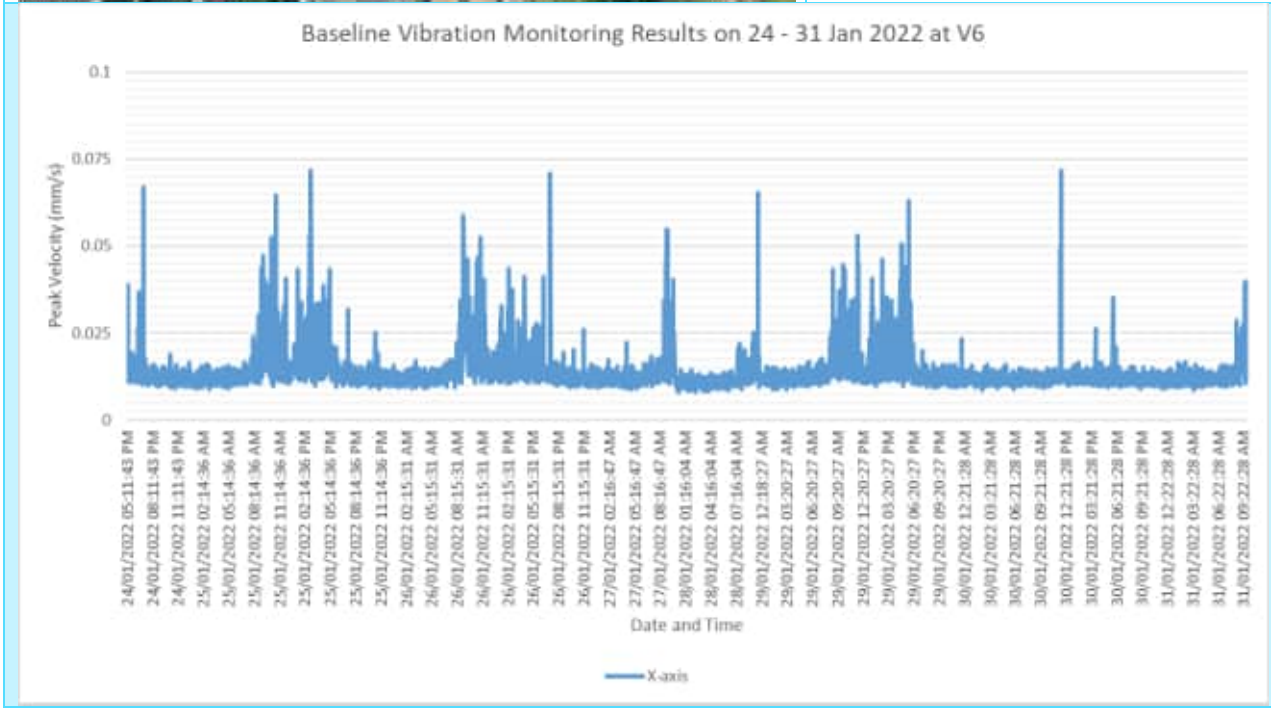
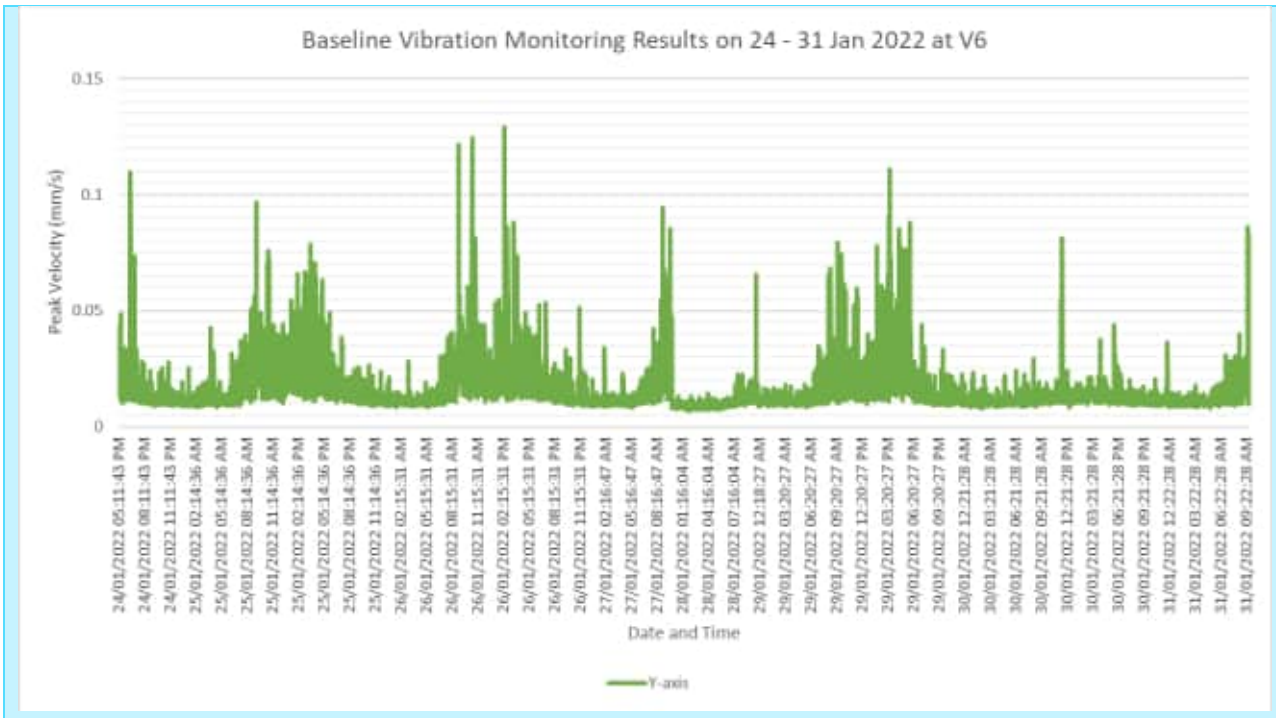

Baseline Vibration Monitoring Results on 24 - 31 Jan 2022 at V5
Peak Velocity (mm/s)
0.8
0.6
0.4
0.2
0
Date and Time
Y-axis
Baseline Vibration Monitoring Results on 24 - 31 Jan 2022 at V5
Peak Velocity (mm/s)
0.8
0.6
0.4
0.2
0
Date and Time
Z-axis

Table 1-8 Baseline Vibration Monitoring at 5 Stagmont Ring

Date / Time: 24th January 2022 – 31st January 2022	
Baseline Vibration Monitoring Location	Setup of Vibration Monitoring
V6: 5 Stagmont Ring	




Baseline Vibration Monitoring Results on 24 - 31 Jan 2022 at V6
Peak Velocity (mm/s)
0.15
0.1
0.05
0
Date and Time
Y-axis

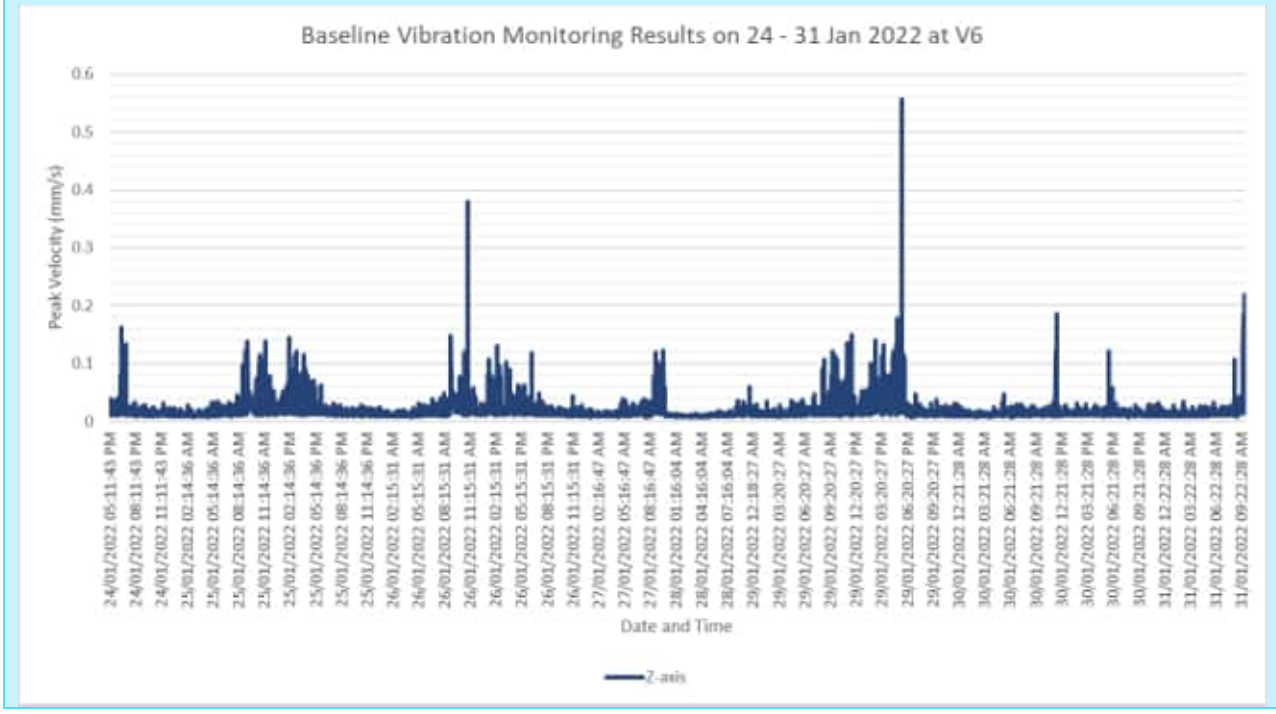
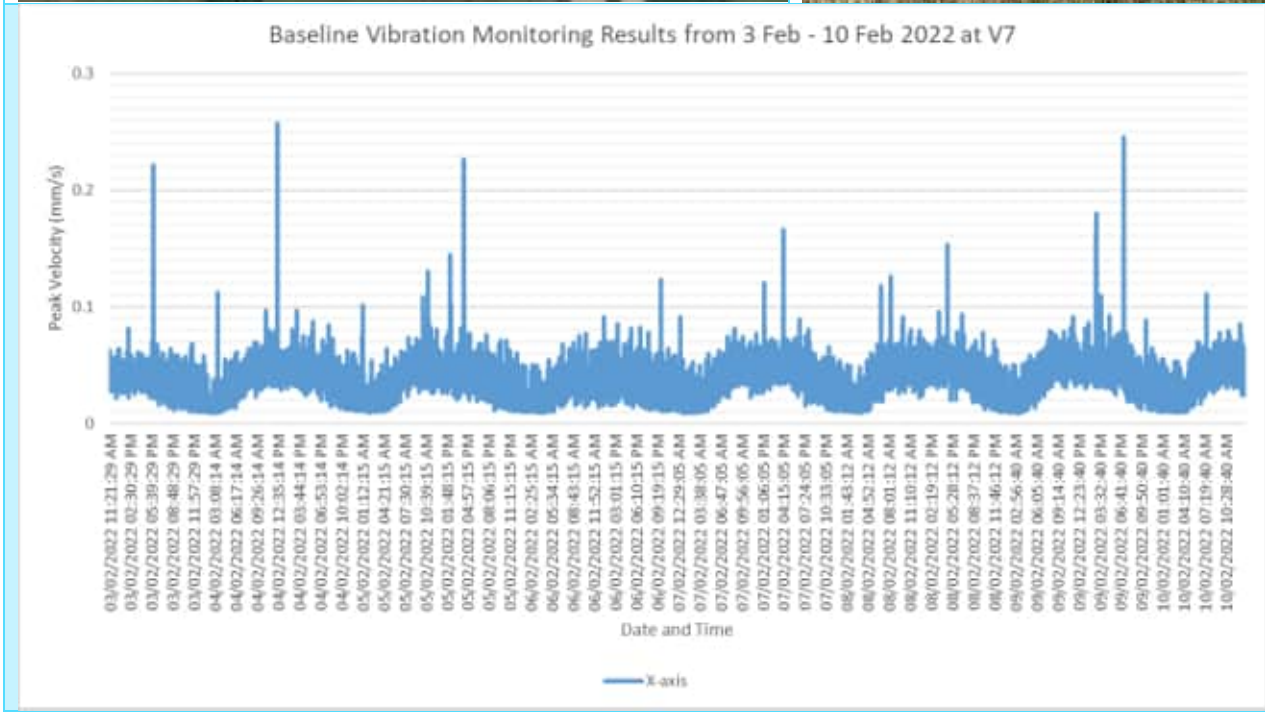
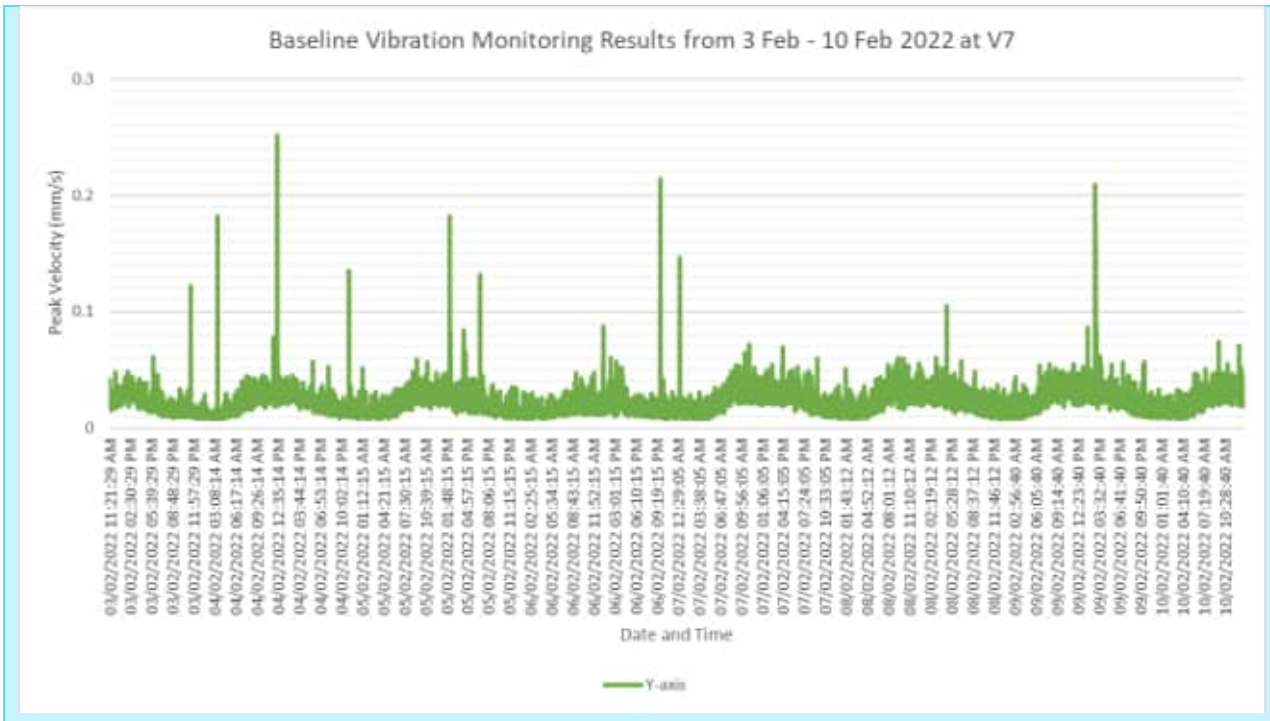

Baseline Vibration Monitoring Results on 24 - 31 Jan 2022 at V6
Peak Velocity (mm/s)
0.6
0.5
0.4
0.3
0.2
0.1
0
Date and Time
Z-axis

Table 1-9 Baseline Vibration Monitoring at 5 Stagmont Ring

Date / Time: 3rd February 2022 – 10th February 2022	
Baseline Vibration Monitoring Location	**Setup of Vibration Monitoring**
V7: Under KJE	




Baseline Vibration Monitoring Results from 3 Feb - 10 Feb 2022 at V7
Peak Velocity (mm/s)
0.3
0.2
0.1
0
Date and Time
Y-axis

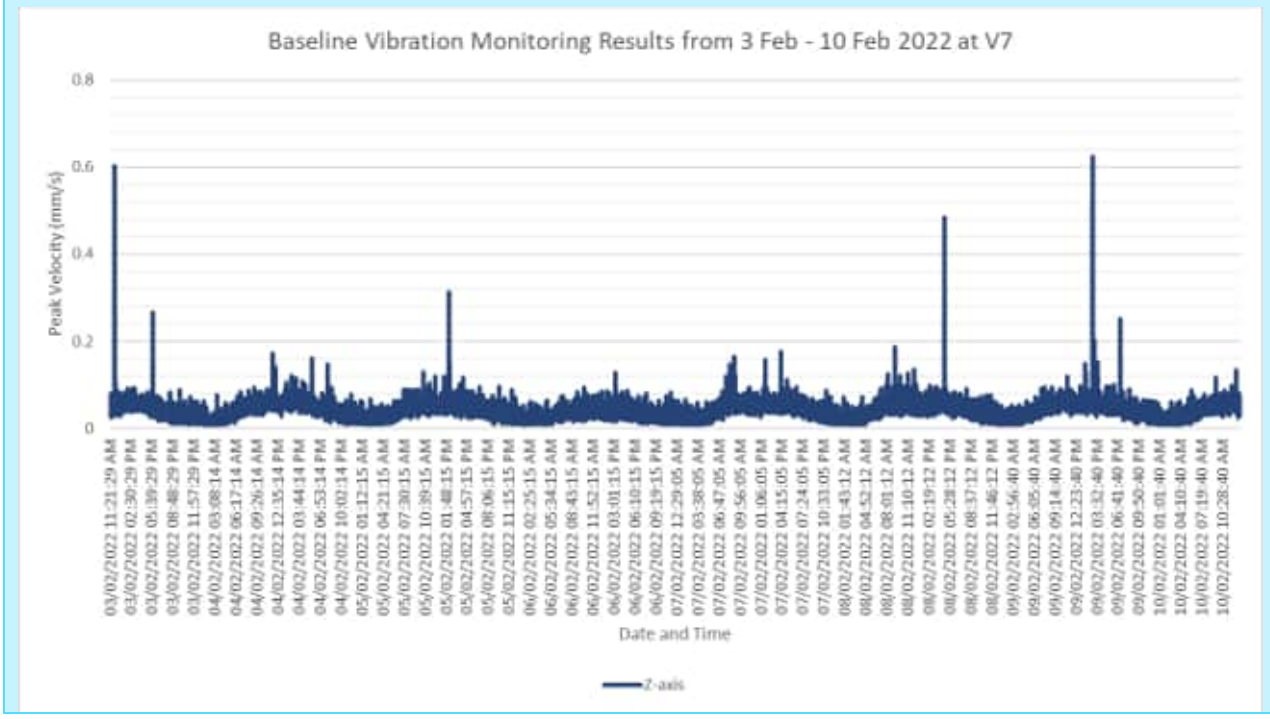
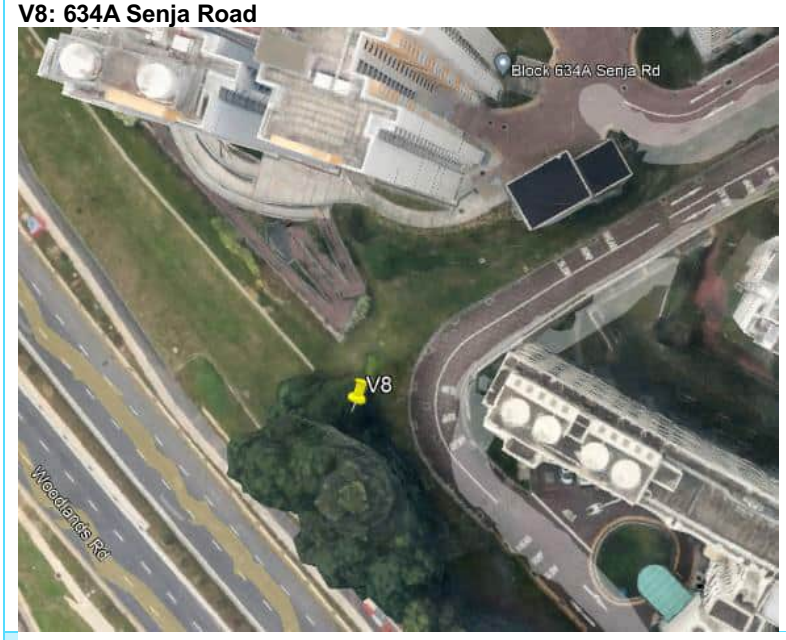
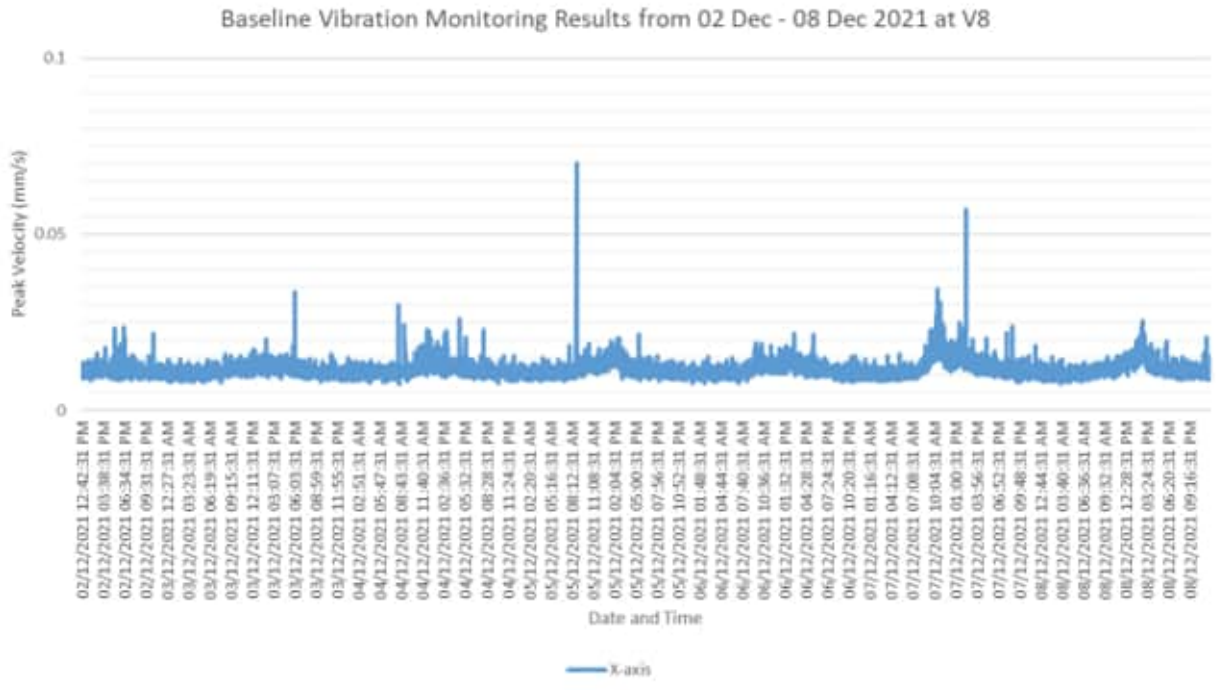

Baseline Vibration Monitoring Results from 3 Feb - 10 Feb 2022 at V7
Peak Velocity (mm/s)
0.8
0.6
0.4
0.2
0
Date and Time
Z-axis

Table 1-10 Baseline Vibration Monitoring at 634A Senja Road

Date / Time: 2nd December 2021 – 8th December 2021	
Baseline Vibration Monitoring Location	Setup of Vibration Monitoring
V8: 634A Senja Road 	



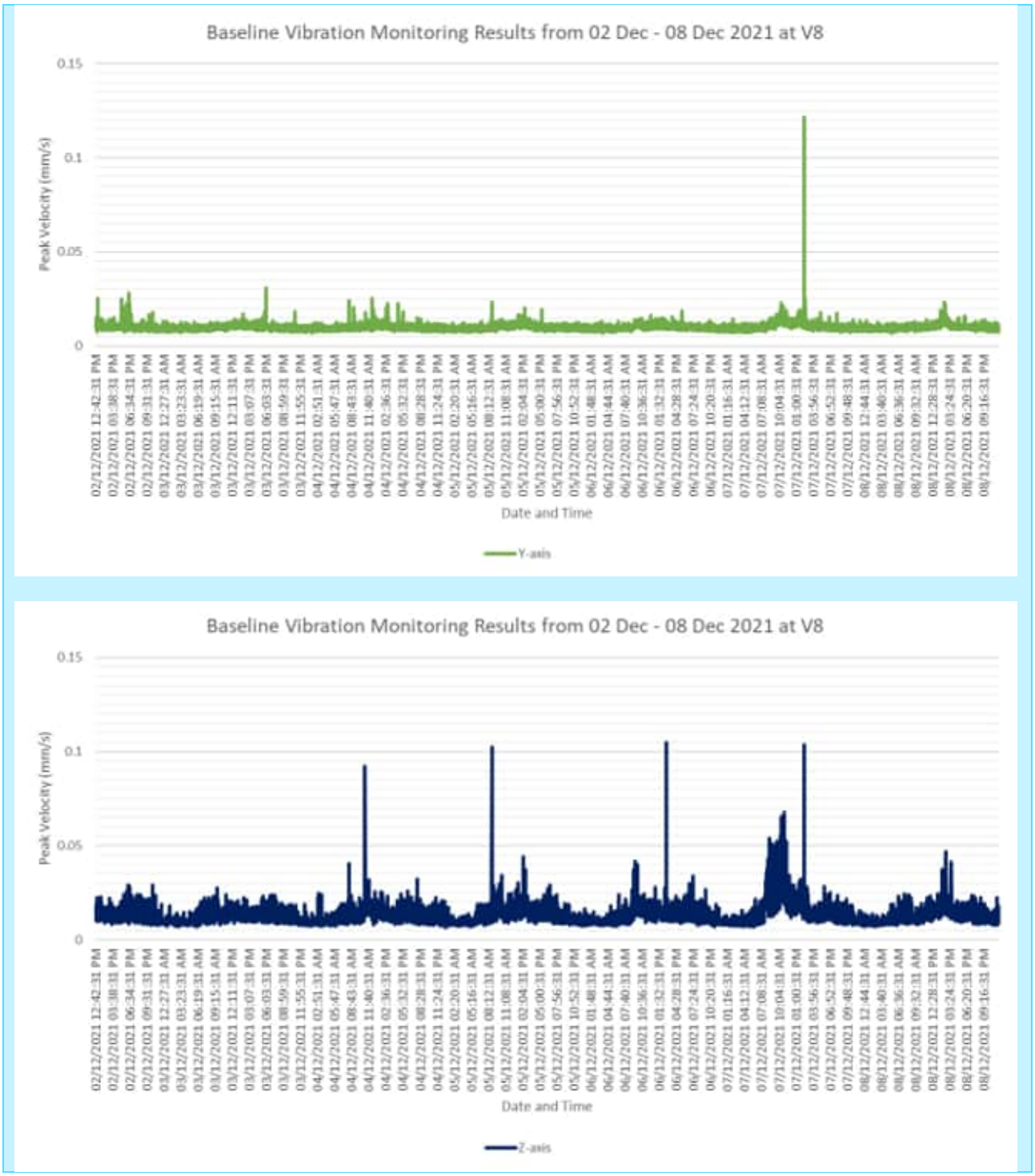
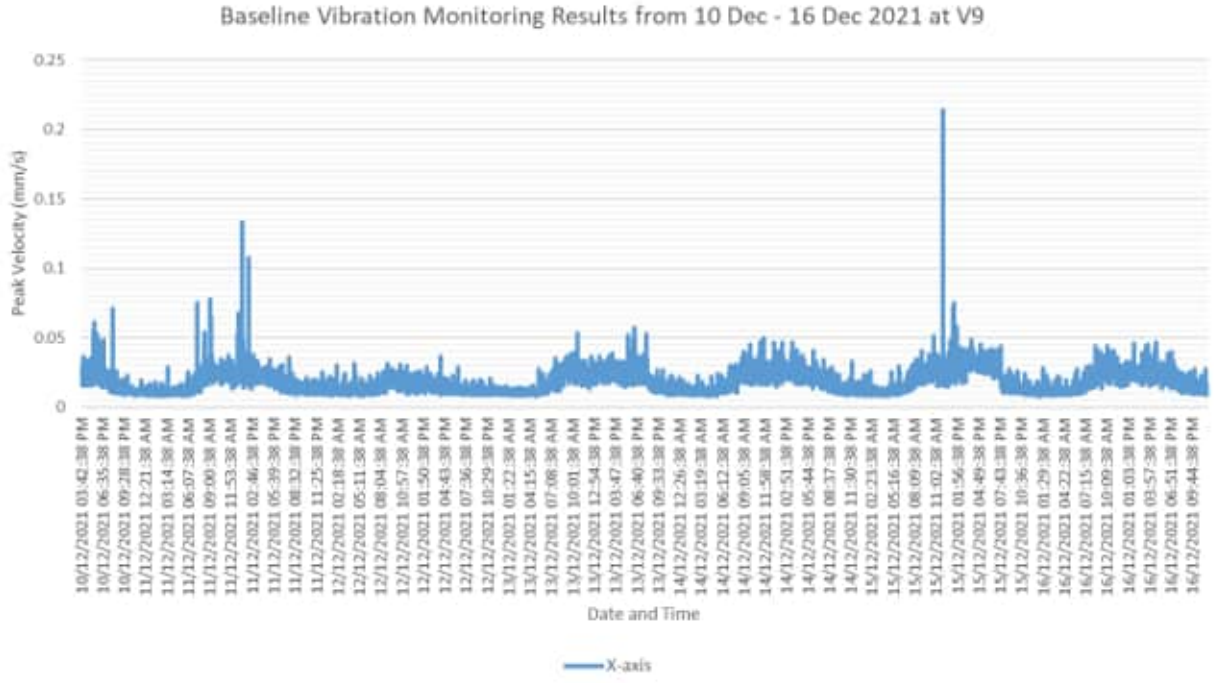
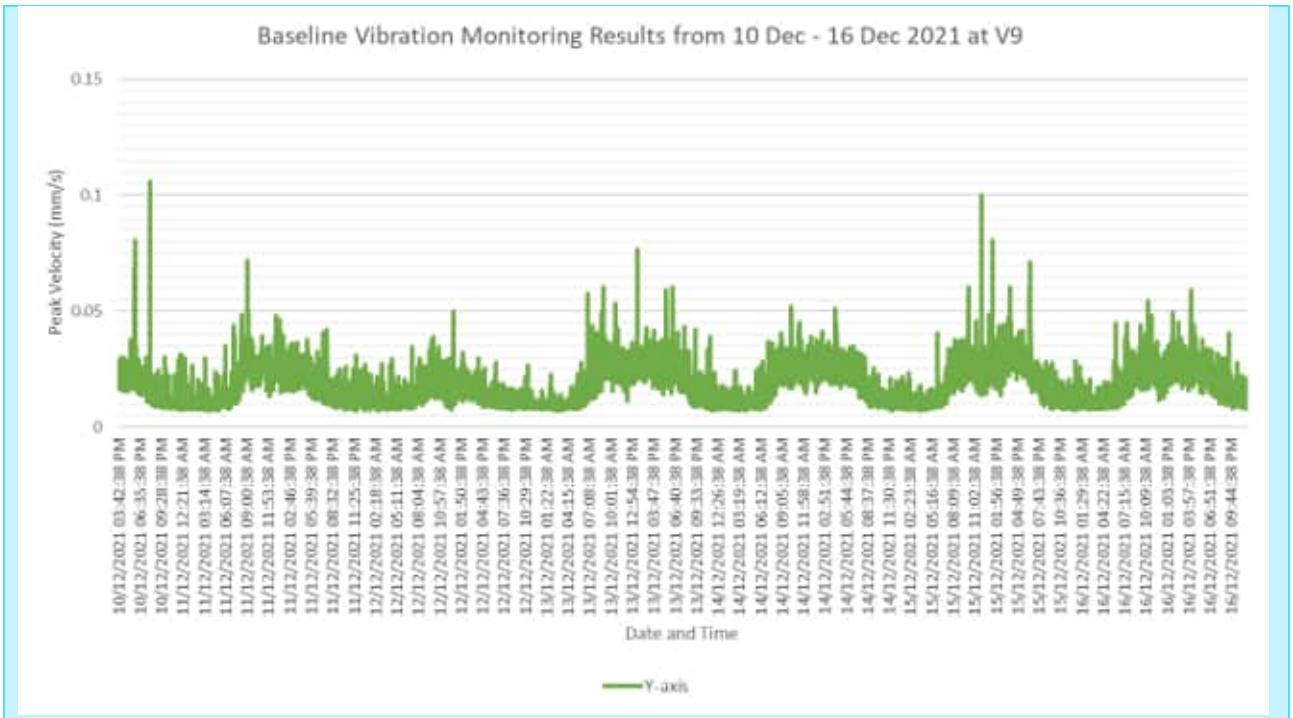

Baseline Vibration Monitoring Results from 02 Dec - 08 Dec 2021 at V8
Peak Velocity (mm/s)
0.15
0.1
0.05
0
Date and Time
Y-axis
Baseline Vibration Monitoring Results from 02 Dec - 08 Dec 2021 at V8
Peak Velocity (mm/s)
0.15
0.1
0.05
0
Date and Time
Z-axis

Table 1-11 Baseline Vibration Monitoring at Sri Ava Temple

Date / Time: 10th December 2021 – 16th December 2021	
Baseline Vibration Monitoring Location	Setup of Vibration Monitoring
V9: Sri Ava Temple	




Baseline Vibration Monitoring Results from 10 Dec - 16 Dec 2021 at V9
Peak Velocity (mm/s)
0.15
0.1
0.05
0
Date and Time
Y-axis

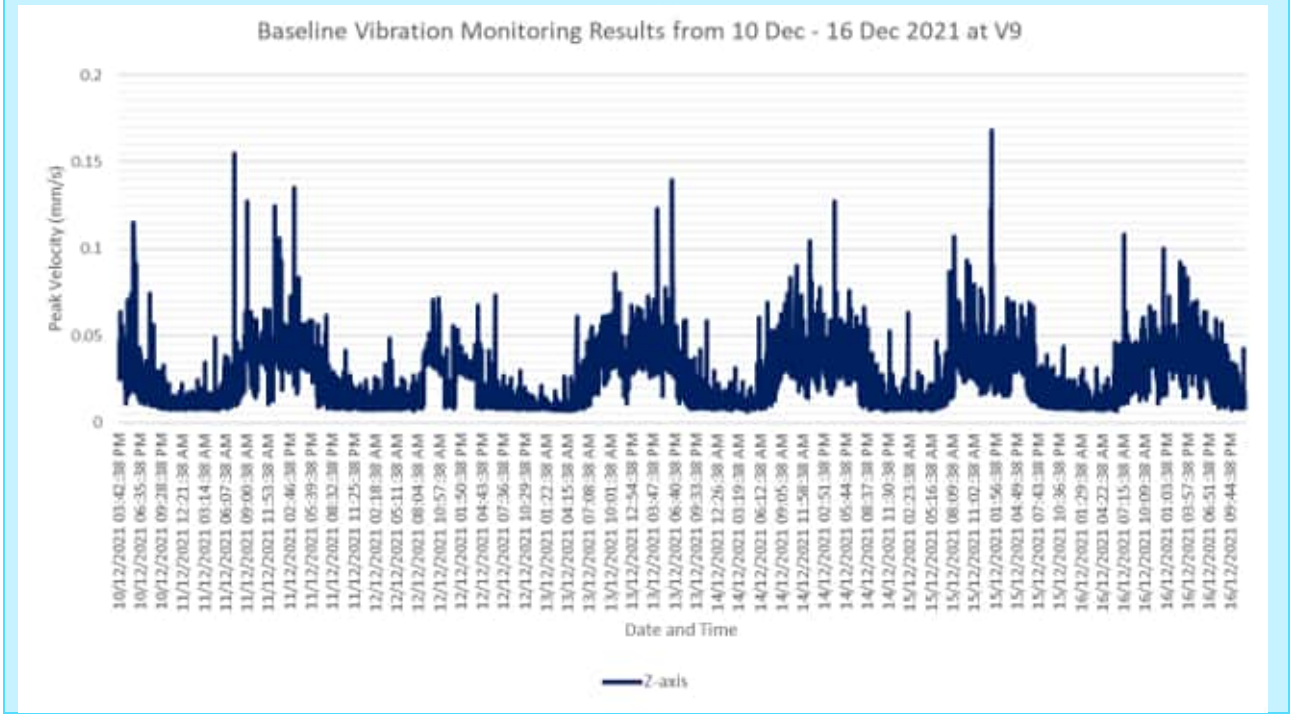
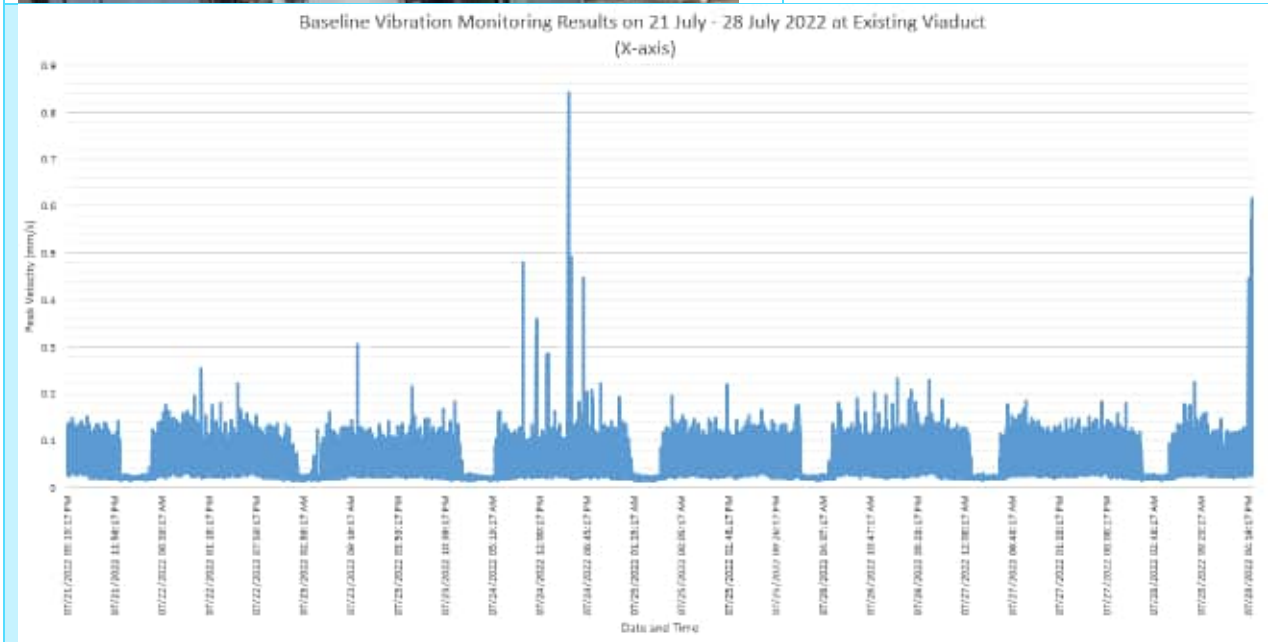
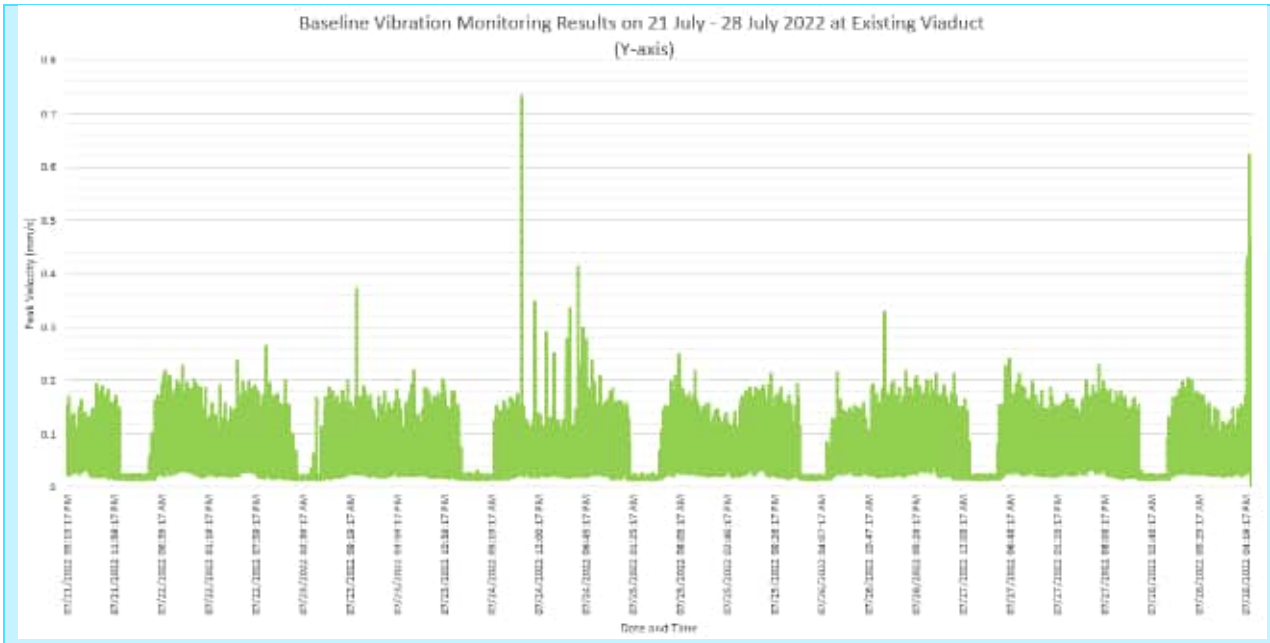

Baseline Vibration Monitoring Results from 10 Dec - 16 Dec 2021 at V9
Peak Velocity (mm/s)
0.2
0.15
0.1
0.05
0
Date and Time
Z-axis

Table 1-12 Baseline Vibration Monitoring Beside Existing NSL Viaduct

Date / Time: 21st July 2022 – 28th July 2022	
Baseline Vibration Monitoring Location	Setup of Vibration Monitoring
V10: Beside Exisitng NSL Viaduct	




Baseline Vibration Monitoring Results on 21 July - 28 July 2022 at Existing Viaduct
(Y-axis)
Peak Velocity (mm/s)
Date and Time

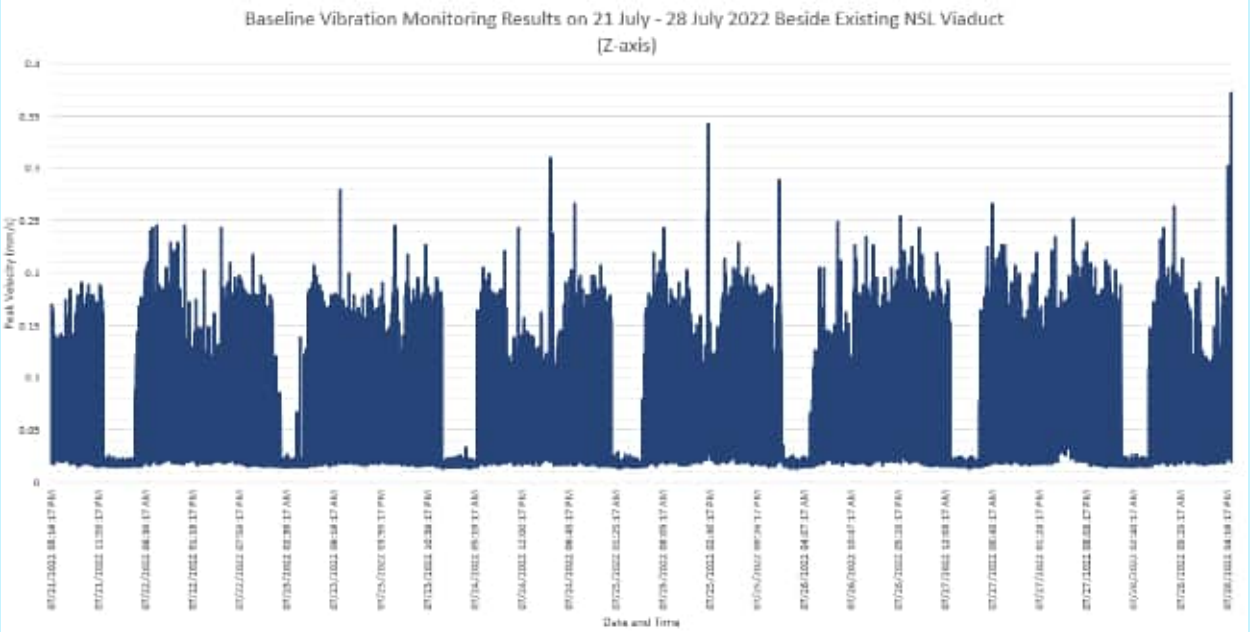
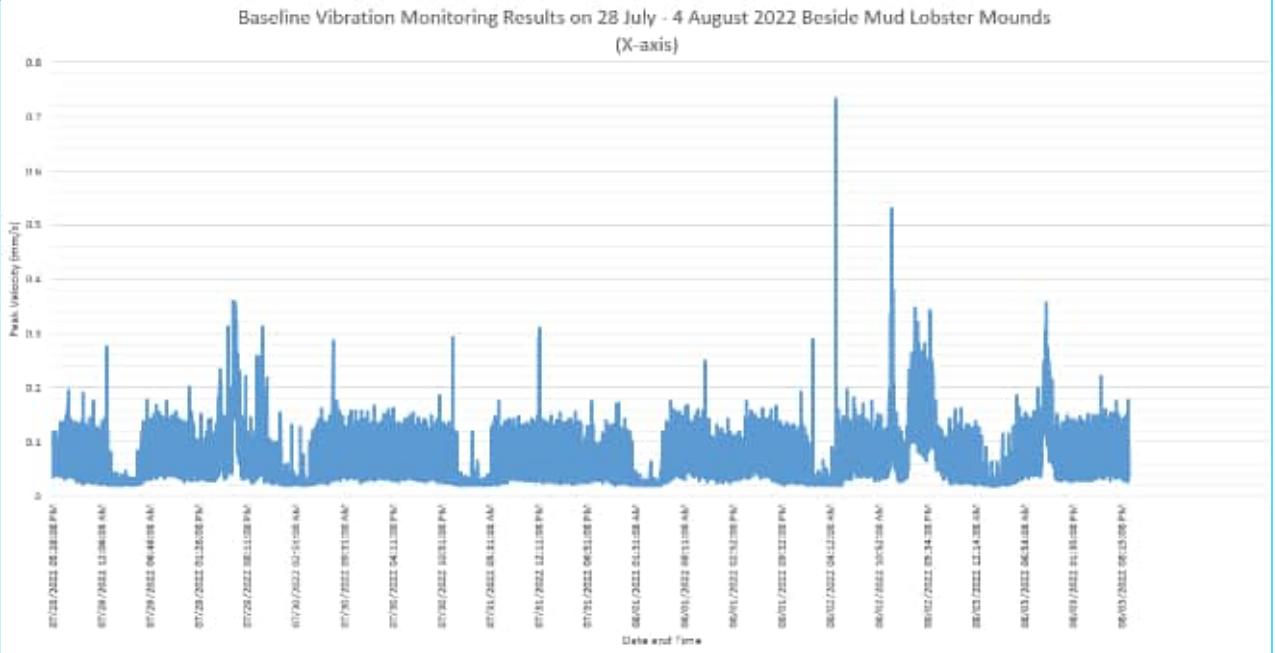
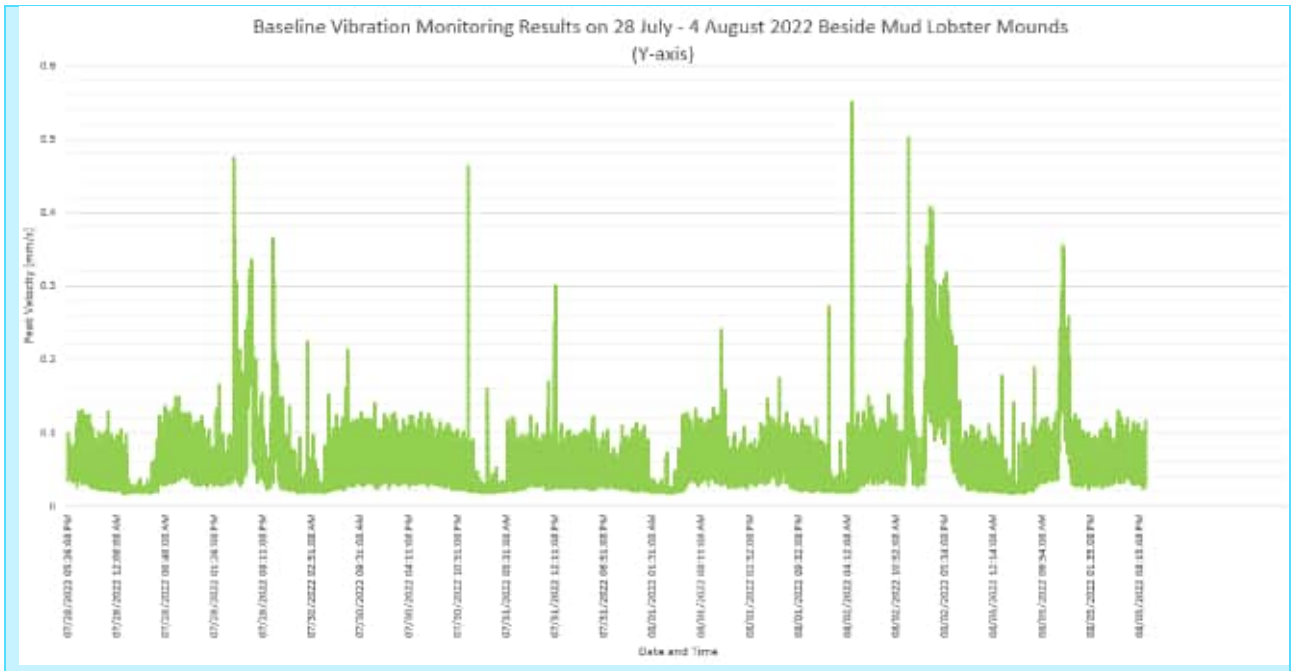

Baseline Vibration Monitoring Results on 21 July - 28 July 2022 Beside Existing NSL Viaduct
(Z-axis)
Peak Velocity (mm/s)
Date and Time

Table 1-13 Baseline Vibration Monitoring Beside Mud Lobster Mounds

Date / Time: 28th July 2022 – 4th August 2022	
Baseline Vibration Monitoring Location	Setup of Vibration Monitoring
V11: Beside Mud Lobster Mounds	




Baseline Vibration Monitoring Results on 28 July - 4 August 2022 Beside Mud Lobster Mounds
(Y-axis)
Peak Velocity (mm/s)
Date and Time

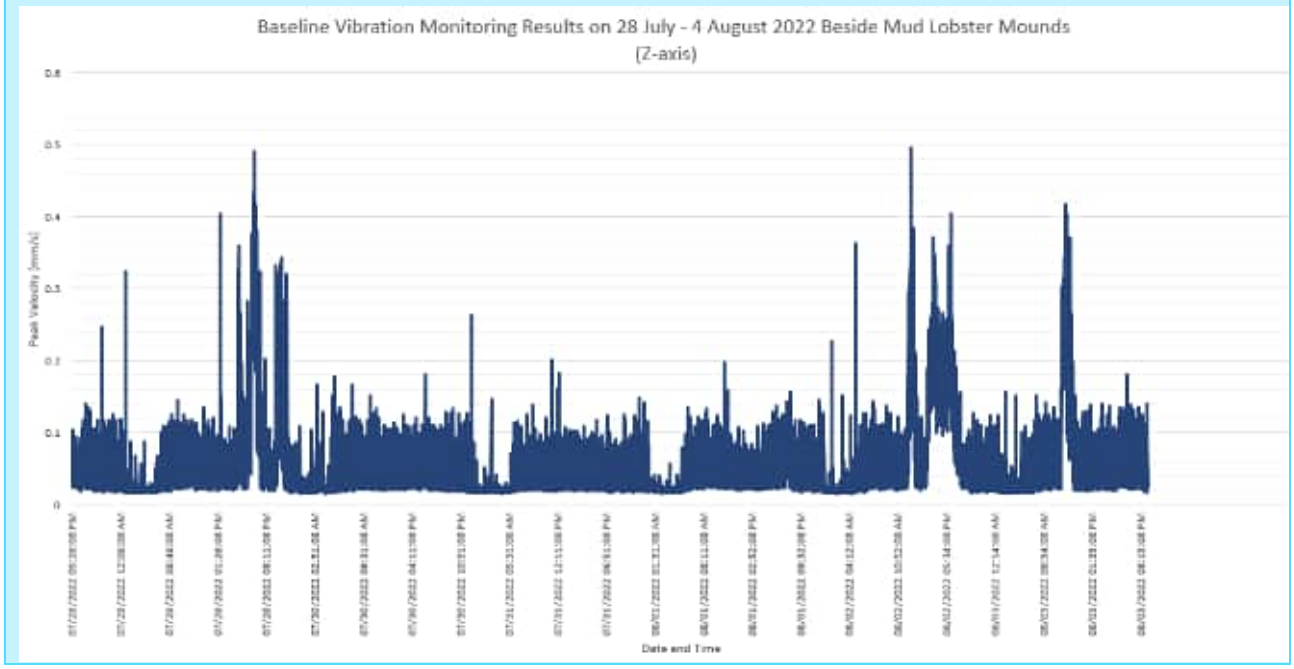
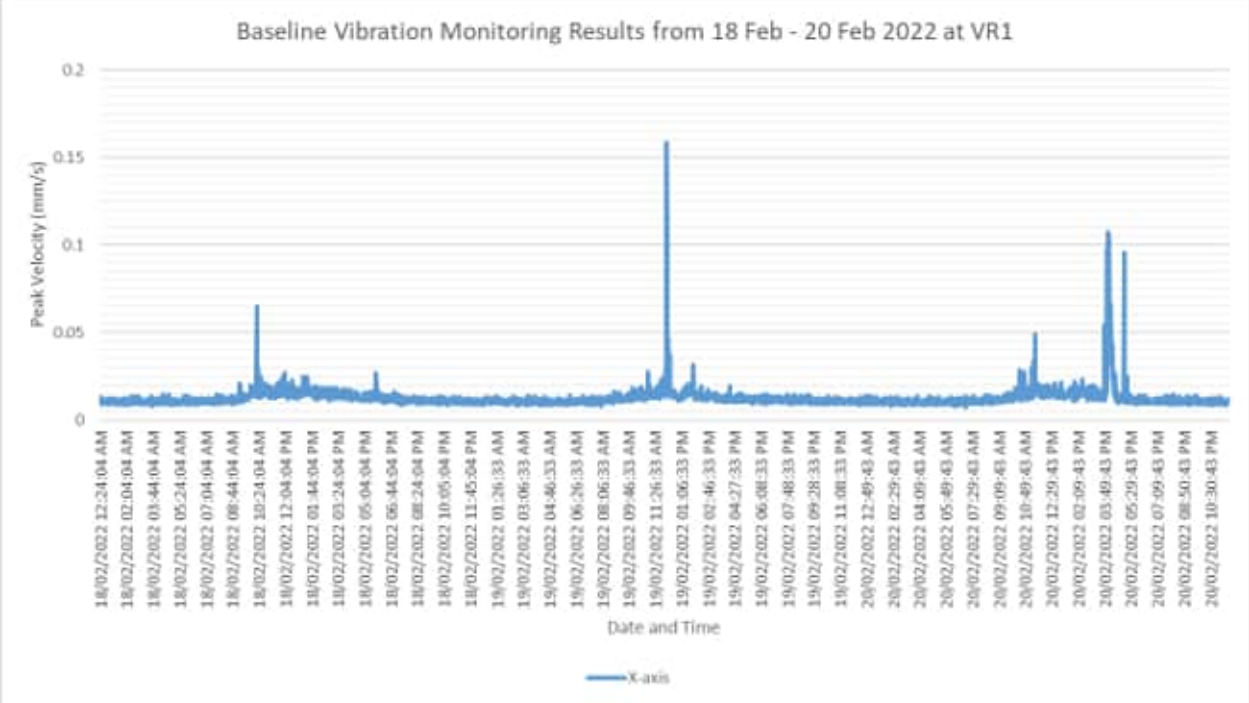

Baseline Vibration Monitoring Results on 28 July - 4 August 2022 Beside Mud Lobster Mounds
(Z-axis)
Peak Velocity (mm/s)
Date and Time

Table 1-14 Baseline Vibration Monitoring at the end of Rail Corridor

Date / Time: 18th February 2022 – 20th February 2022	
Baseline Vibration Monitoring Location	Setup of Vibration Monitoring
VR1: End of Rail Corridor	



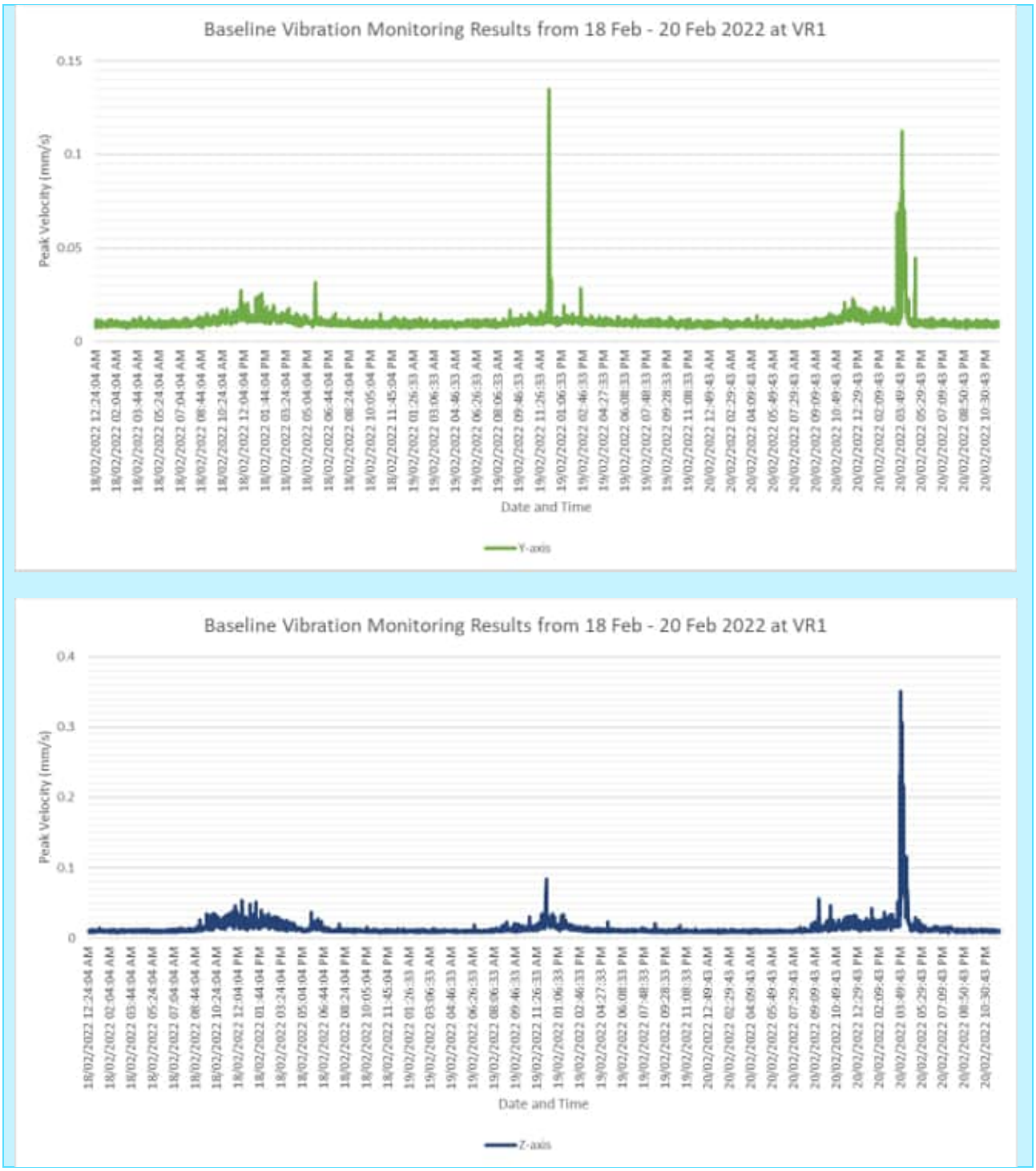
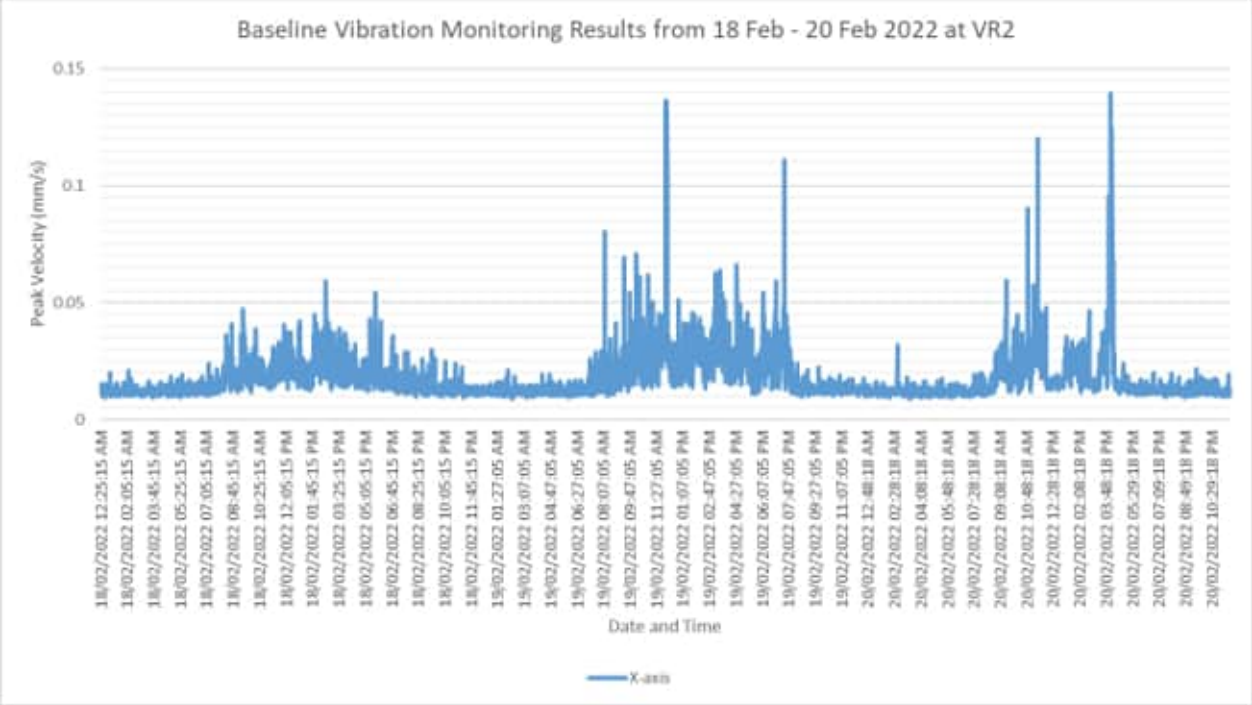
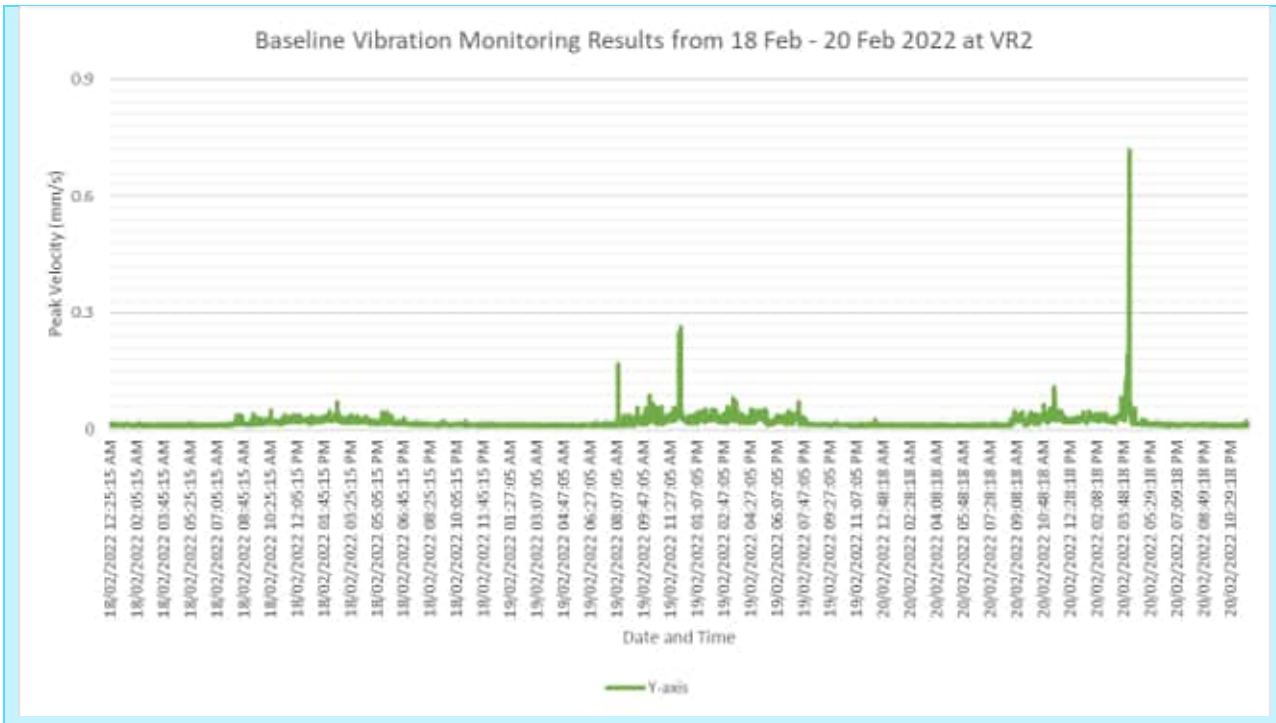

Baseline Vibration Monitoring Results from 18 Feb - 20 Feb 2022 at VR1
Peak Velocity (mm/s)
0.15
0.1
0.05
0
Date and Time
Y-axis
Baseline Vibration Monitoring Results from 18 Feb - 20 Feb 2022 at VR1
Peak Velocity (mm/s)
0.4
0.3
0.2
0.1
0
Date and Time
Z-axis

Table 1-15 Baseline Vibration Monitoring at Near Sri Ava Temple

Date / Time: 18th February 2022 – 20th February 2022	
Baseline Vibration Monitoring Location	Setup of Vibration Monitoring
VR2: Near Sri Ava Temple	




Baseline Vibration Monitoring Results from 18 Feb - 20 Feb 2022 at VR2
Peak Velocity (mm/s)
0.9
0.6
0.3
0
Date and Time
Y-axis

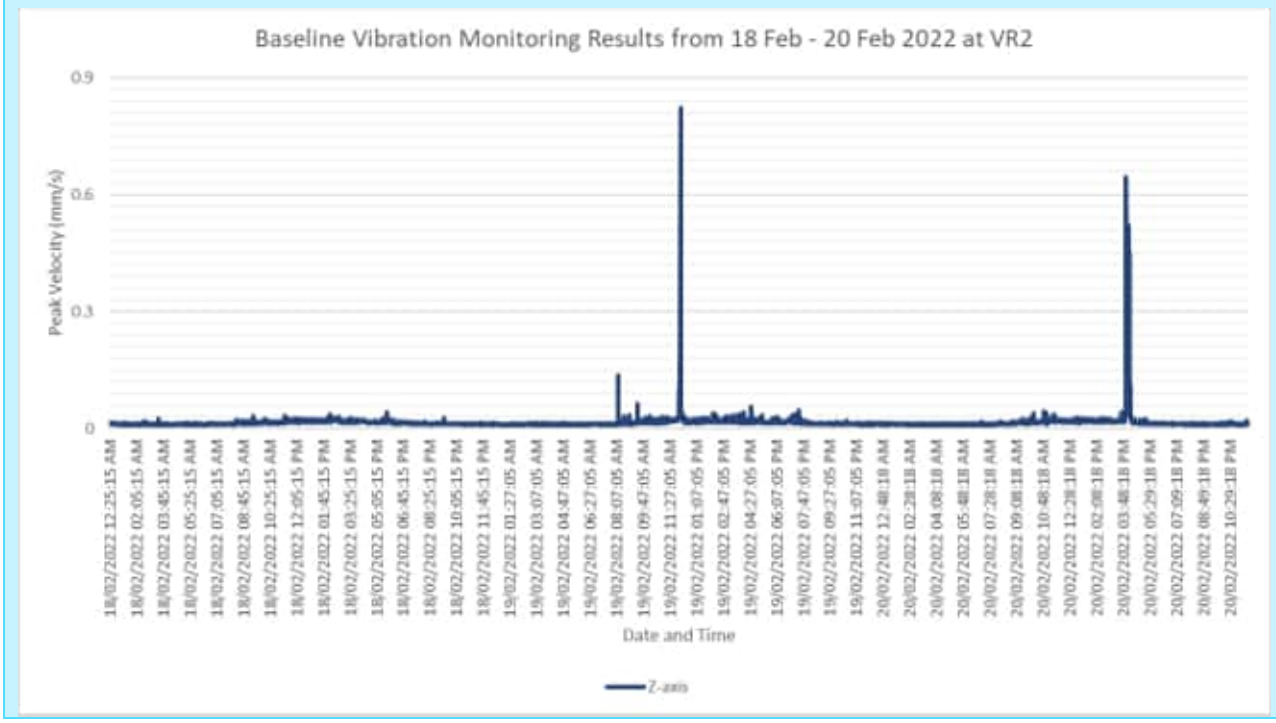
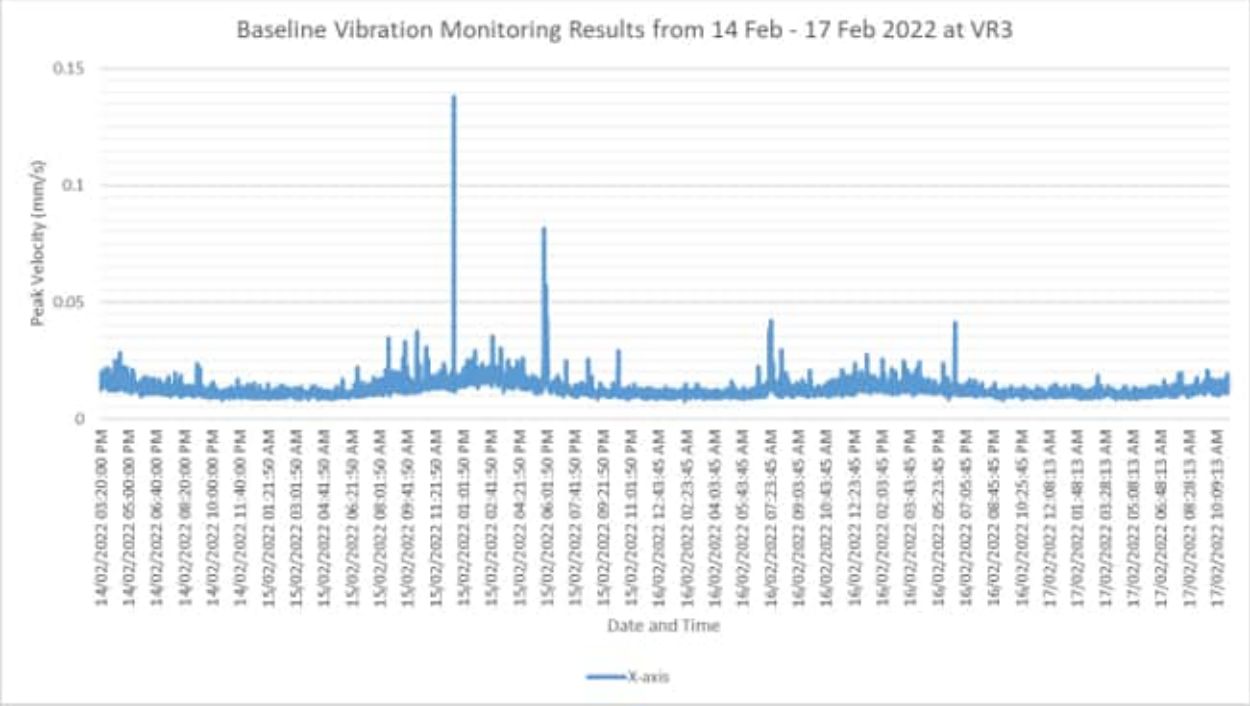
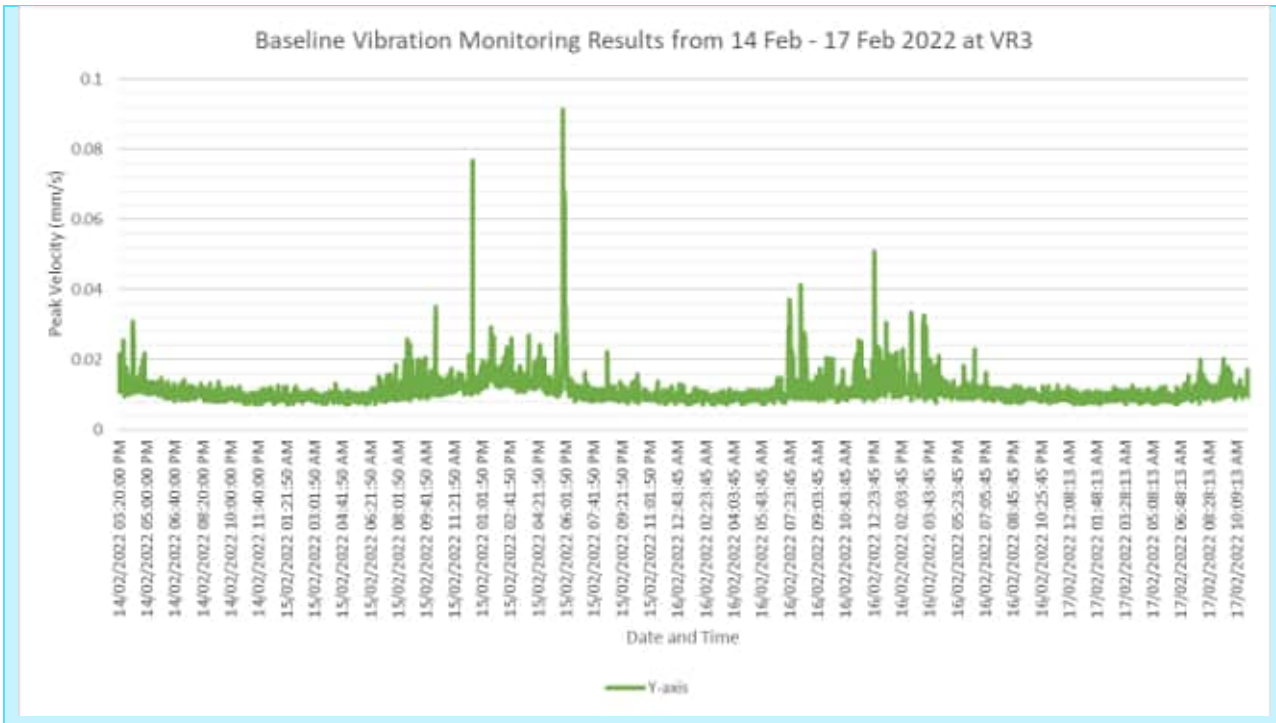

Baseline Vibration Monitoring Results from 18 Feb - 20 Feb 2022 at VR2
Peak Velocity (mm/s)
0.9
0.6
0.3
0
Date and Time
Z-axis

Table 1-16 Baseline Vibration Monitoring Along Rail Corridor Opposite MSCP

Date / Time: 14th February 2022 – 17th February 2022	
Baseline Vibration Monitoring Location	Setup of Vibration Monitoring
VR3: Along Rail Corridor Opposite MSCP	




Baseline Vibration Monitoring Results from 14 Feb - 17 Feb 2022 at VR3
Peak Velocity (mm/s)
0.1
0.08
0.06
0.04
0.02
0
Date and Time
Y-axis

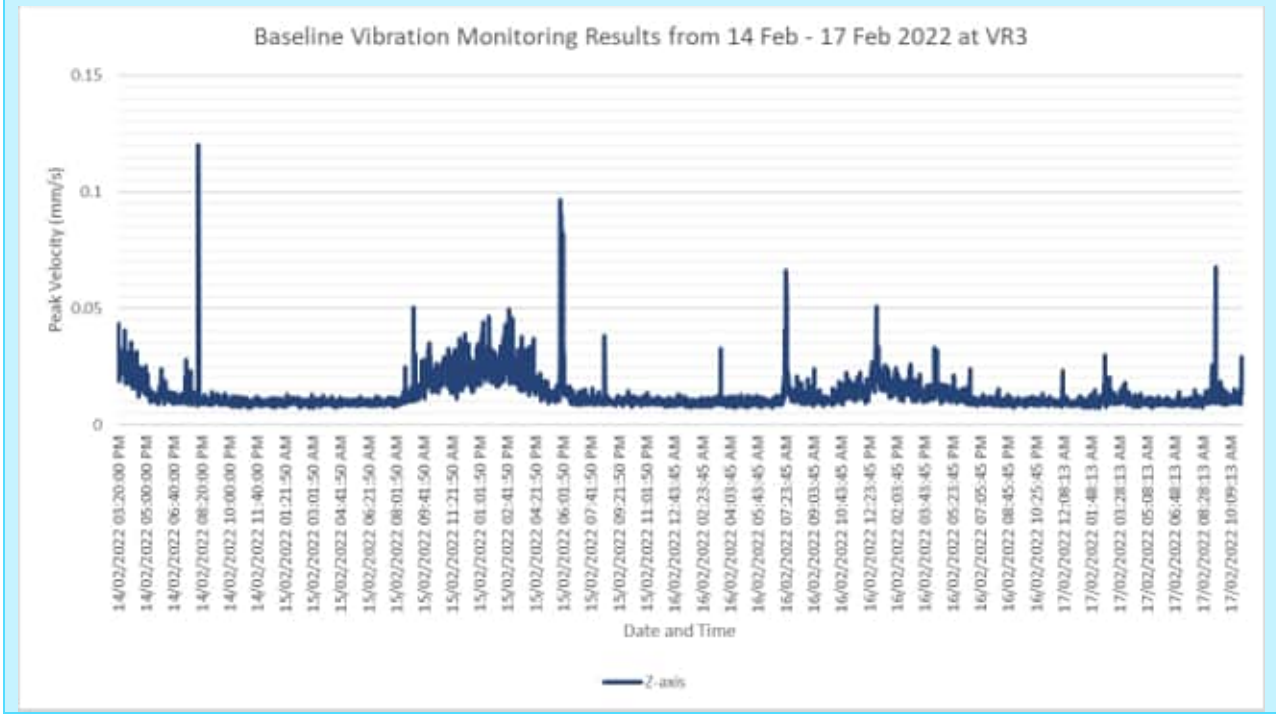
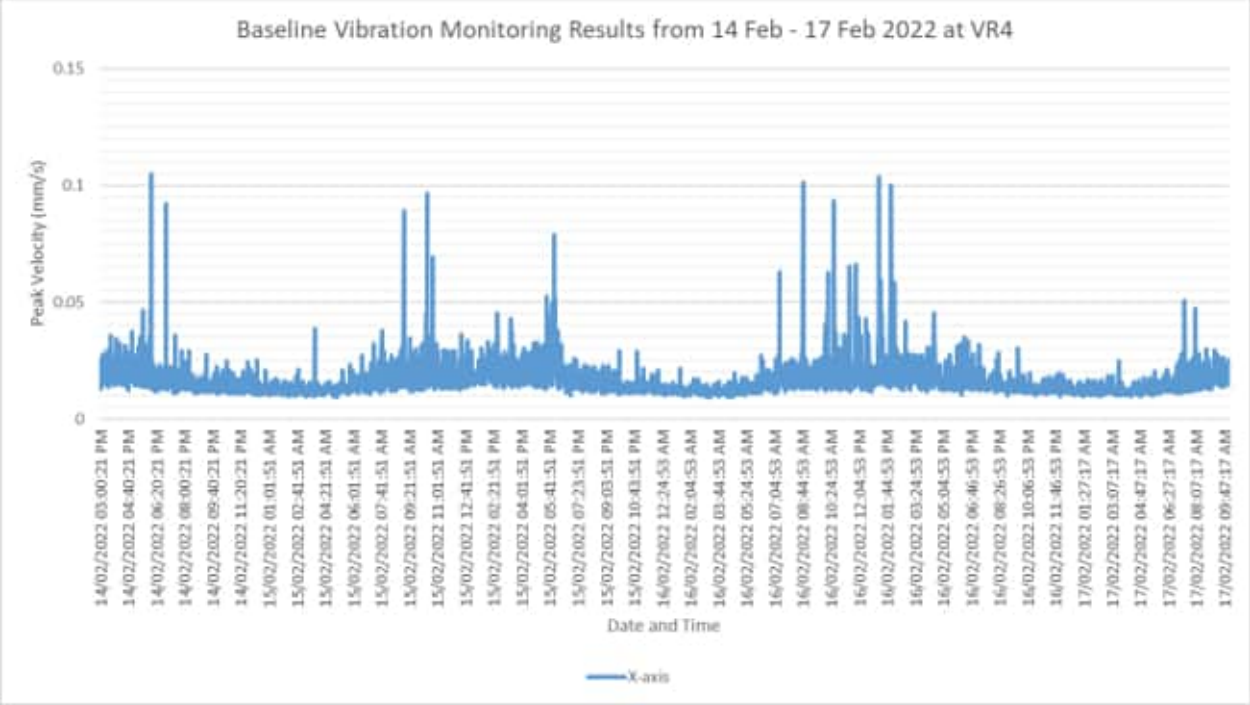
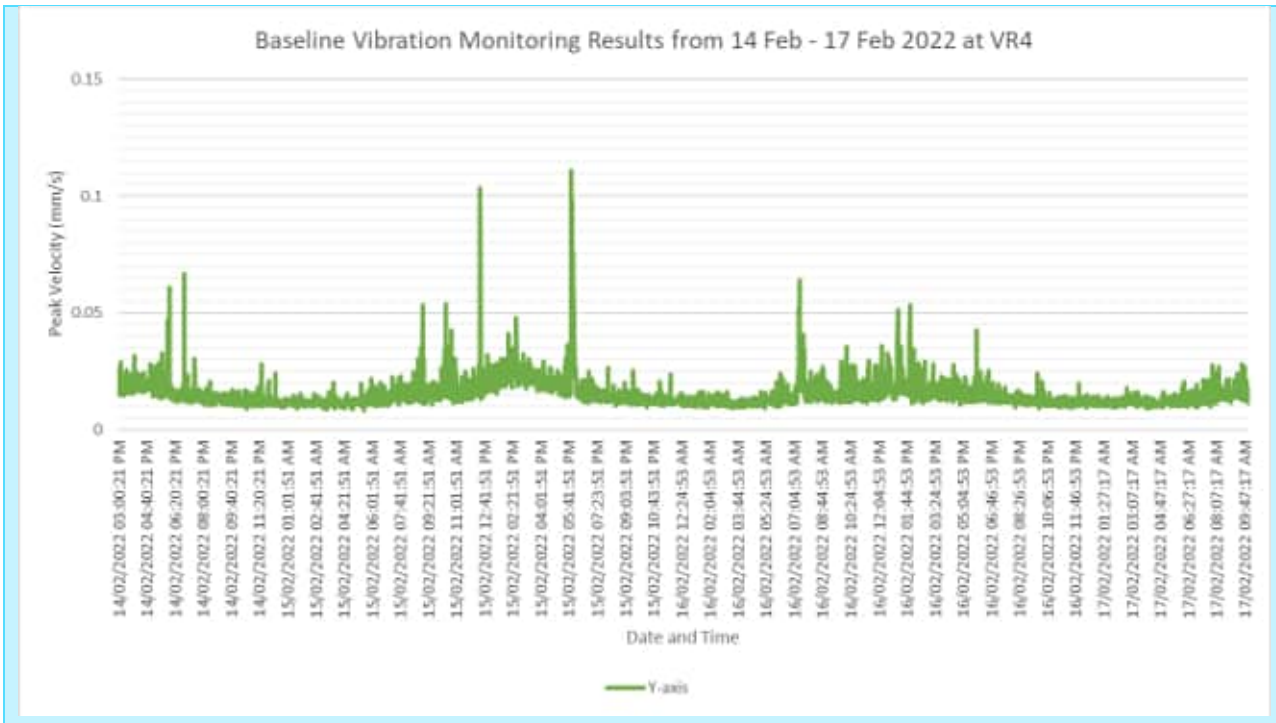

Baseline Vibration Monitoring Results from 14 Feb - 17 Feb 2022 at VR3
Peak Velocity (mm/s)
0.15
0.1
0.05
0
Date and Time
Z-axis

Table 1-17 Baseline Vibration Monitoring at Near 5 Stagmont Ring

Date / Time: 14th February 2022 – 17th February 2022	
Baseline Vibration Monitoring Location	Setup of Vibration Monitoring
VR4: Near 5 Stagmont Ring	




Baseline Vibration Monitoring Results from 14 Feb - 17 Feb 2022 at VR4
Peak Velocity (mm/s)
0.15
0.1
0.05
0
Date and Time
Y-axis

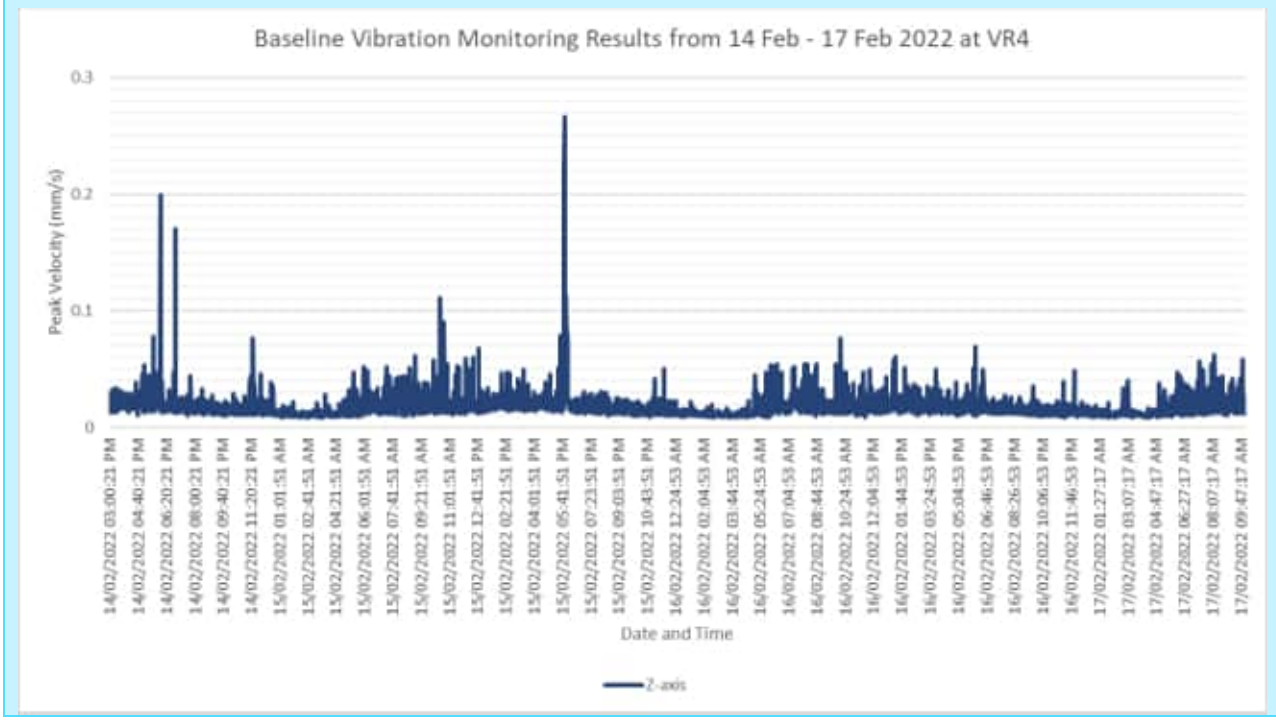
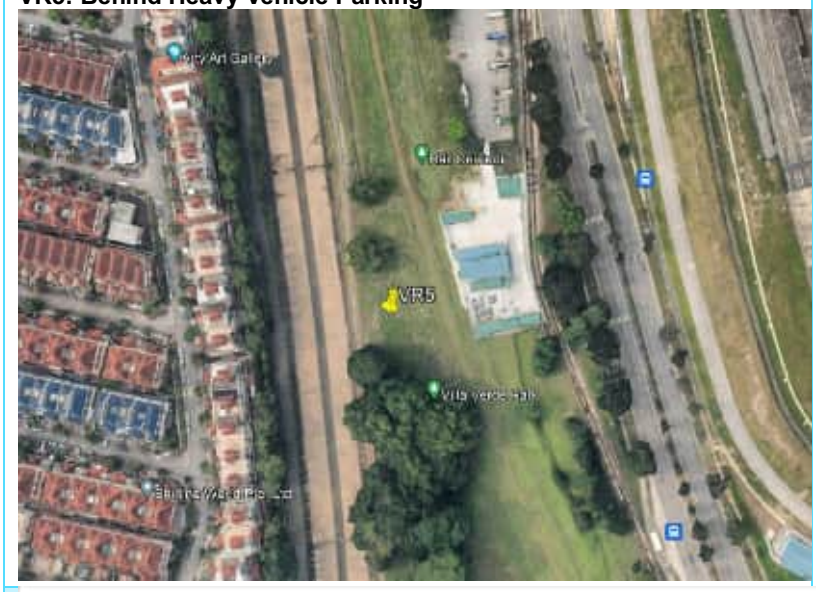
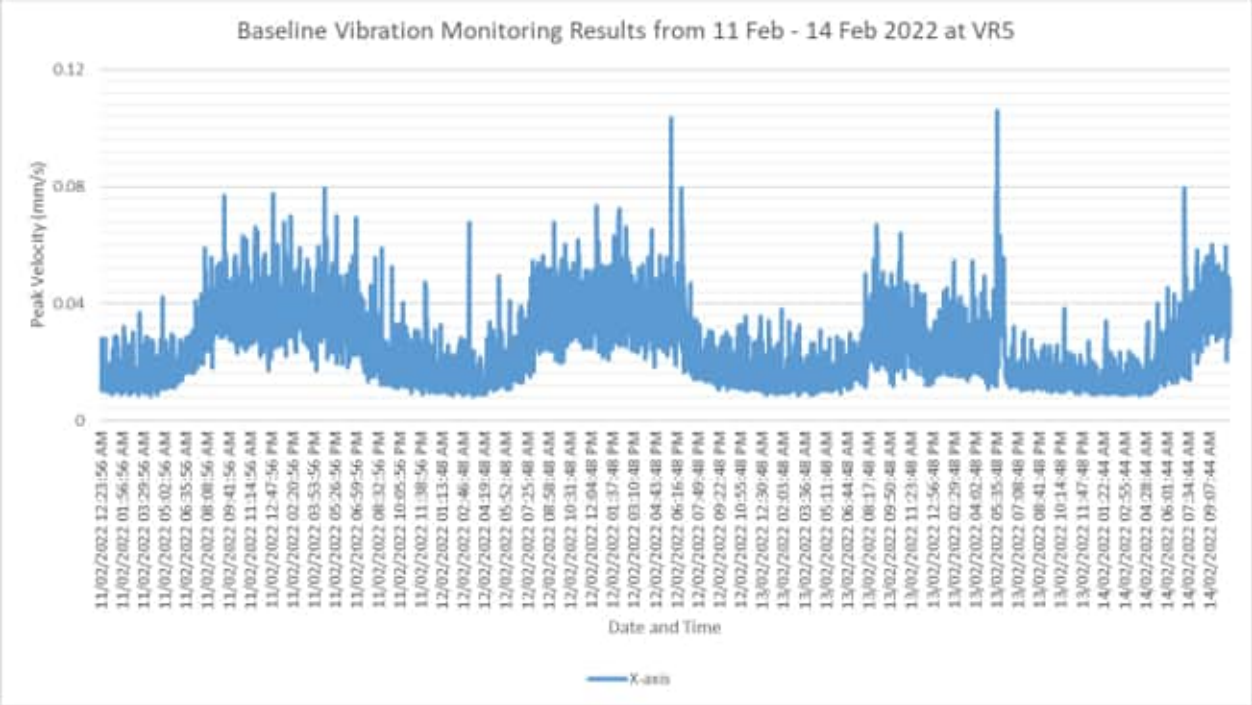
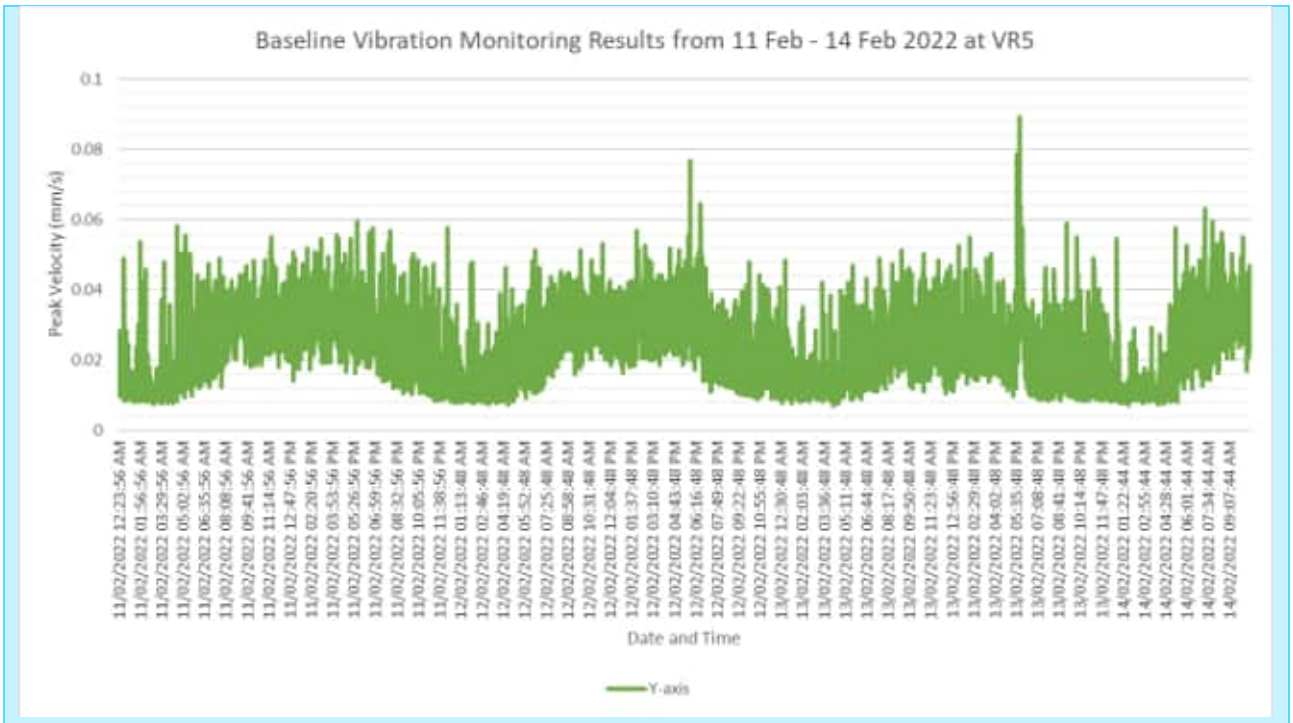

Baseline Vibration Monitoring Results from 14 Feb - 17 Feb 2022 at VR4
Peak Velocity (mm/s)
0.3
0.2
0.1
0
Date and Time
Z-axis

Table 1-18 Baseline Vibration Monitoring at Stagmont Ring (Behind Heavy Vehicle Parking)

Date / Time: 11th February 2022 – 14th February 2022	
Baseline Vibration Monitoring Location	Setup of Vibration Monitoring
VR5: Behind Heavy Vehicle Parking	






Baseline Vibration Monitoring Results from 11 Feb - 14 Feb 2022 at VR5
Peak Velocity (mm/s)
0.1
0.08
0.06
0.04
0.02
0
Date and Time
Y-axis

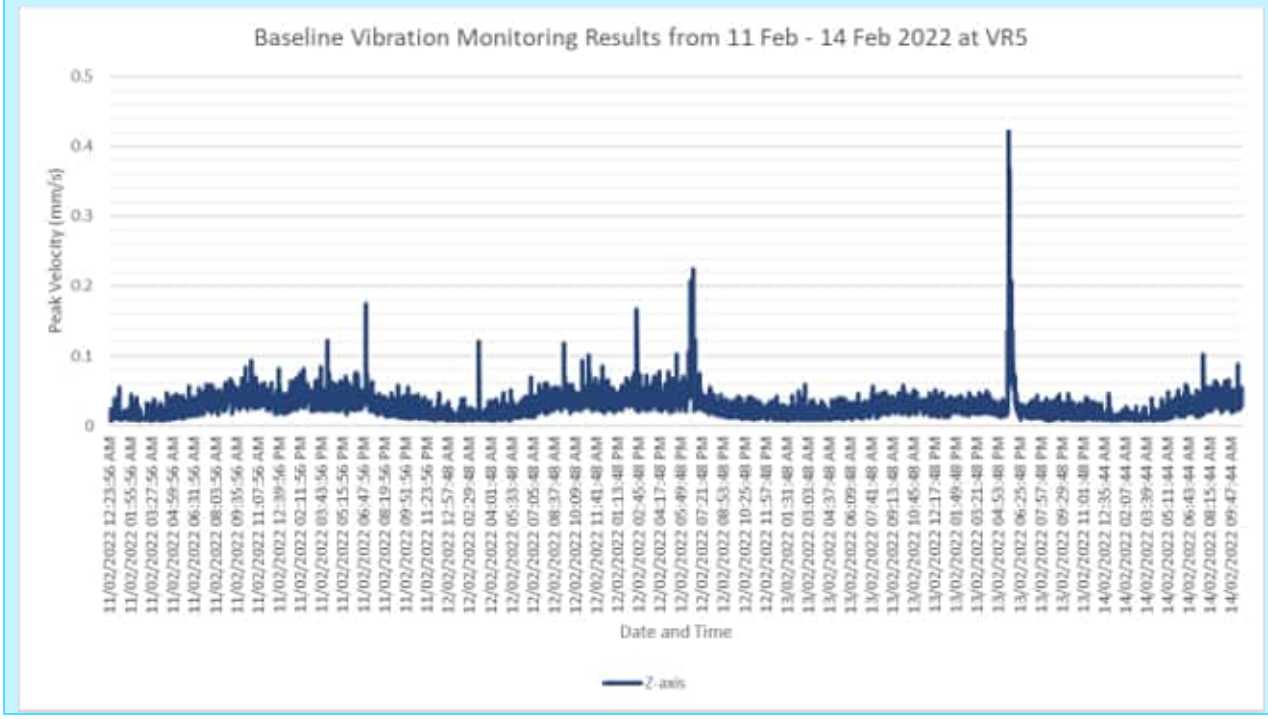
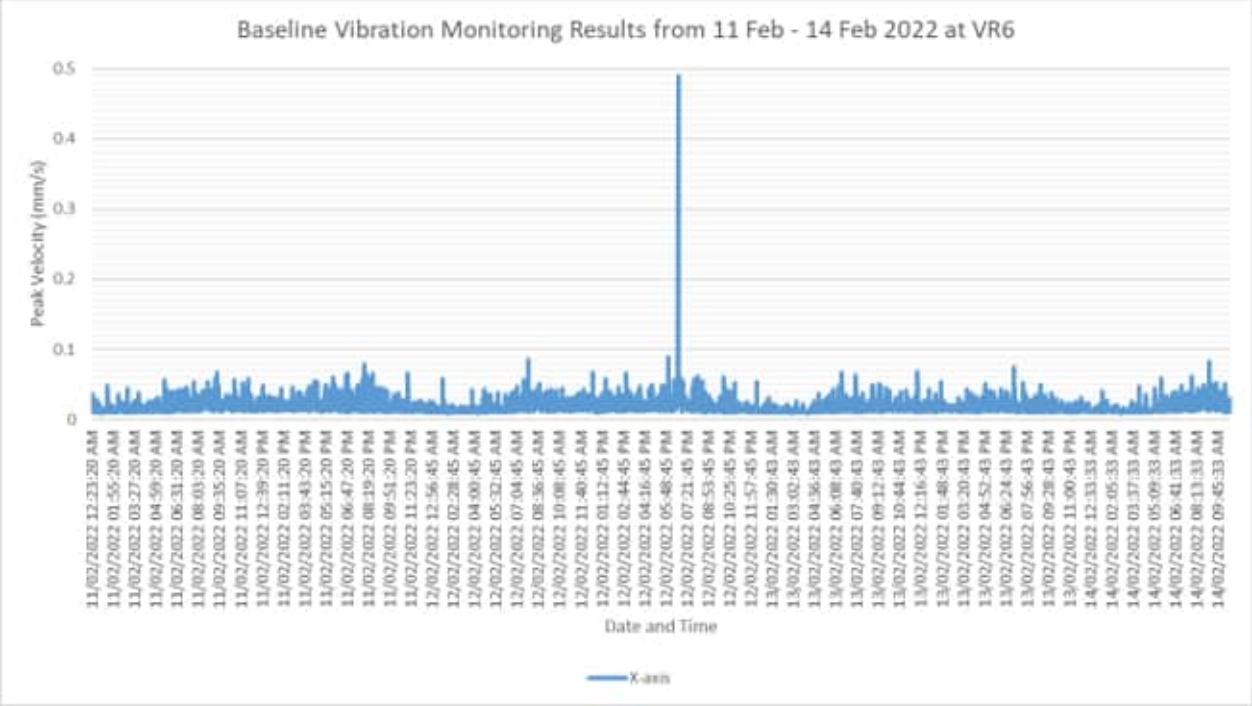
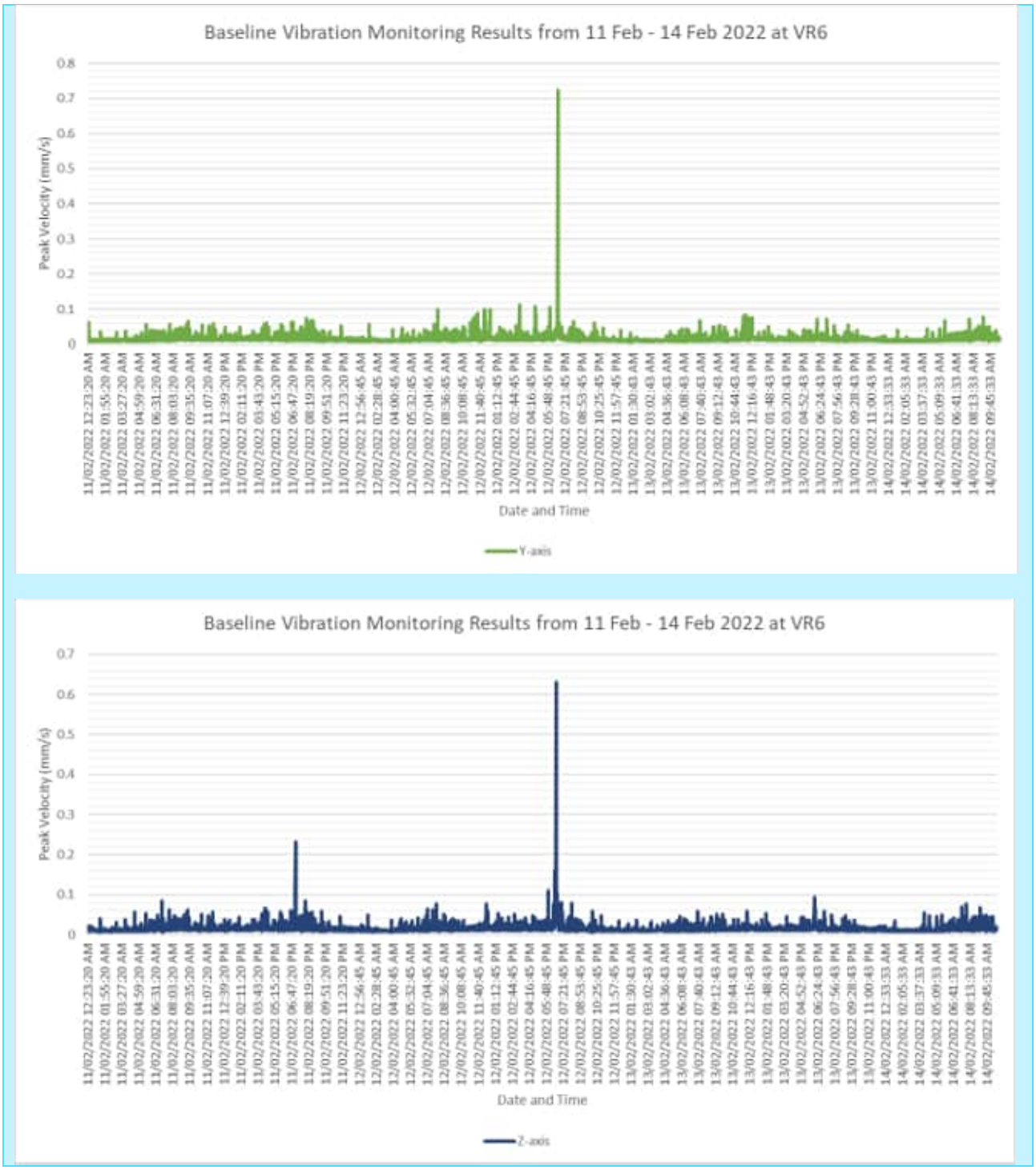

Baseline Vibration Monitoring Results from 11 Feb - 14 Feb 2022 at VR5
Peak Velocity (mm/s)
0.5
0.4
0.3
0.2
0.1
0
Date and Time
Z-axis

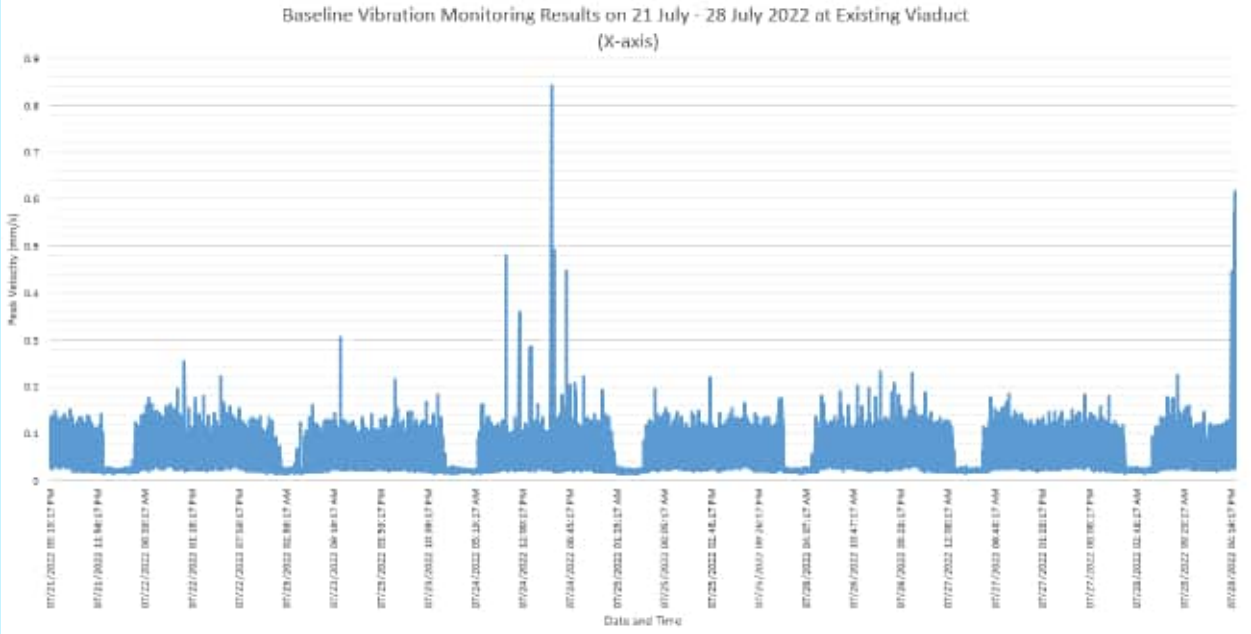
Table 1-19 Baseline Vibration Monitoring at Near Junction 10

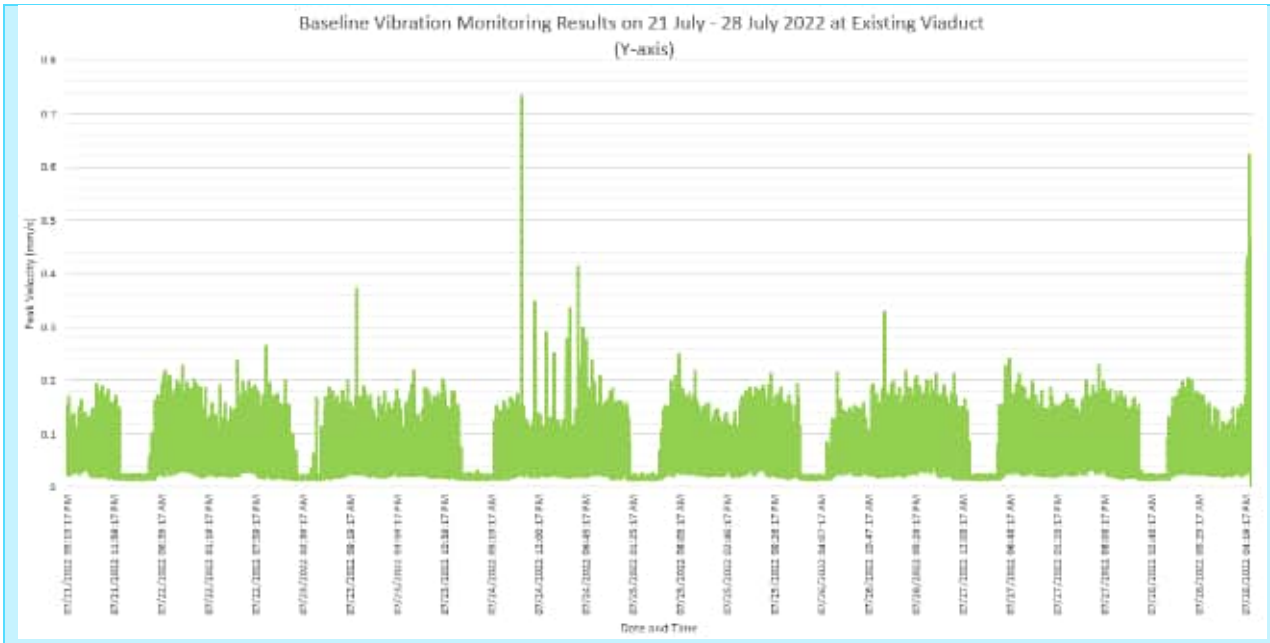
Date / Time: 11th February 2022 – 14th February 2022	
Baseline Vibration Monitoring Location	Setup of Vibration Monitoring
VR6: Near Junction 10	

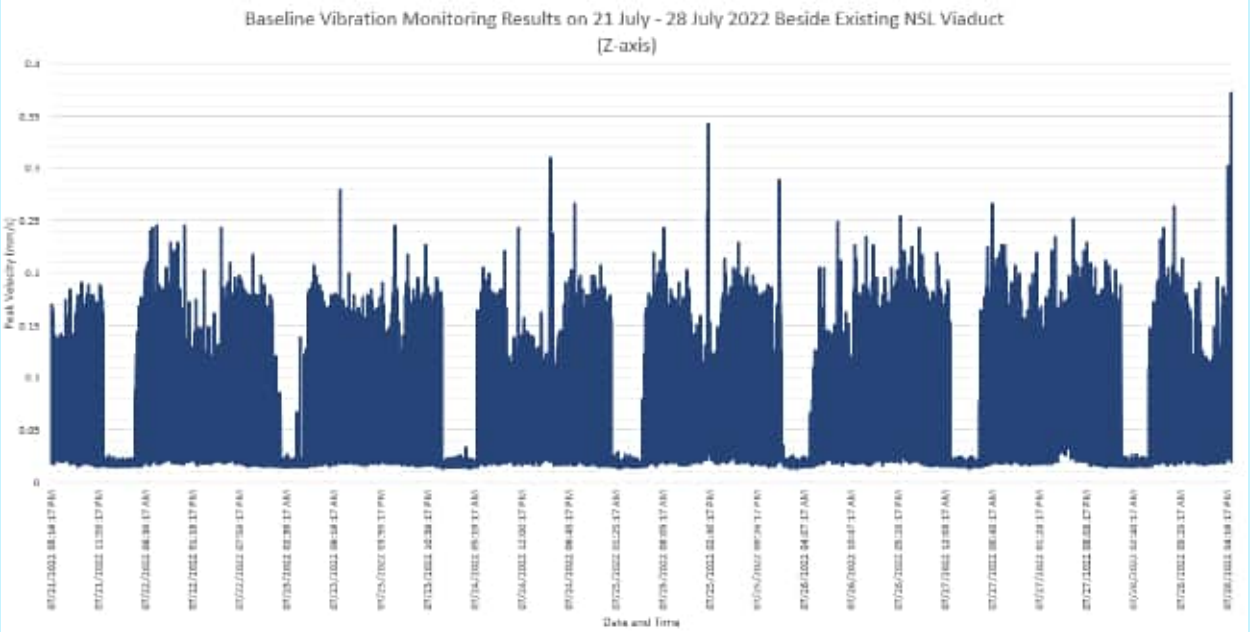



Baseline Vibration Monitoring Results from 11 Feb - 14 Feb 2022 at VR6
Peak Velocity (mm/s)
Date and Time
Y-axis
Baseline Vibration Monitoring Results from 11 Feb - 14 Feb 2022 at VR6
Peak Velocity (mm/s)
Date and Time
Z-axis

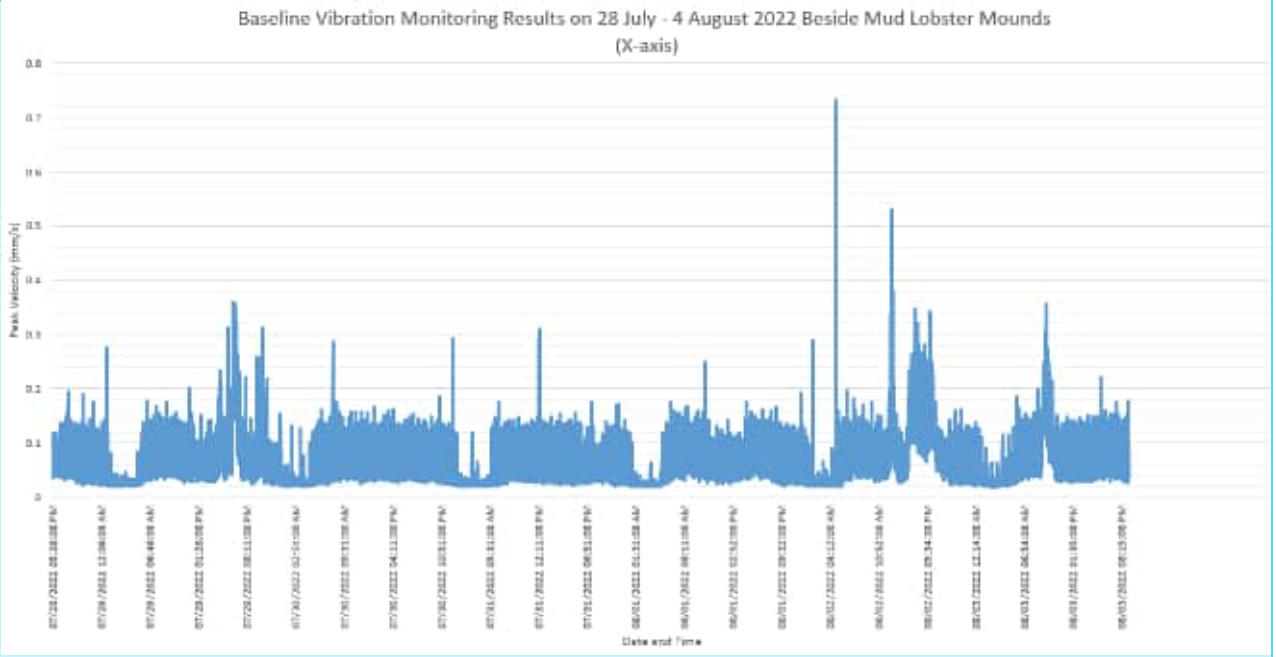
Date / Time: 21st July 2022 – 28th July 2022	
Baseline Vibration Monitoring Location	Setup of Vibration Monitoring
V10: Beside Exisitng NSL Viaduct	

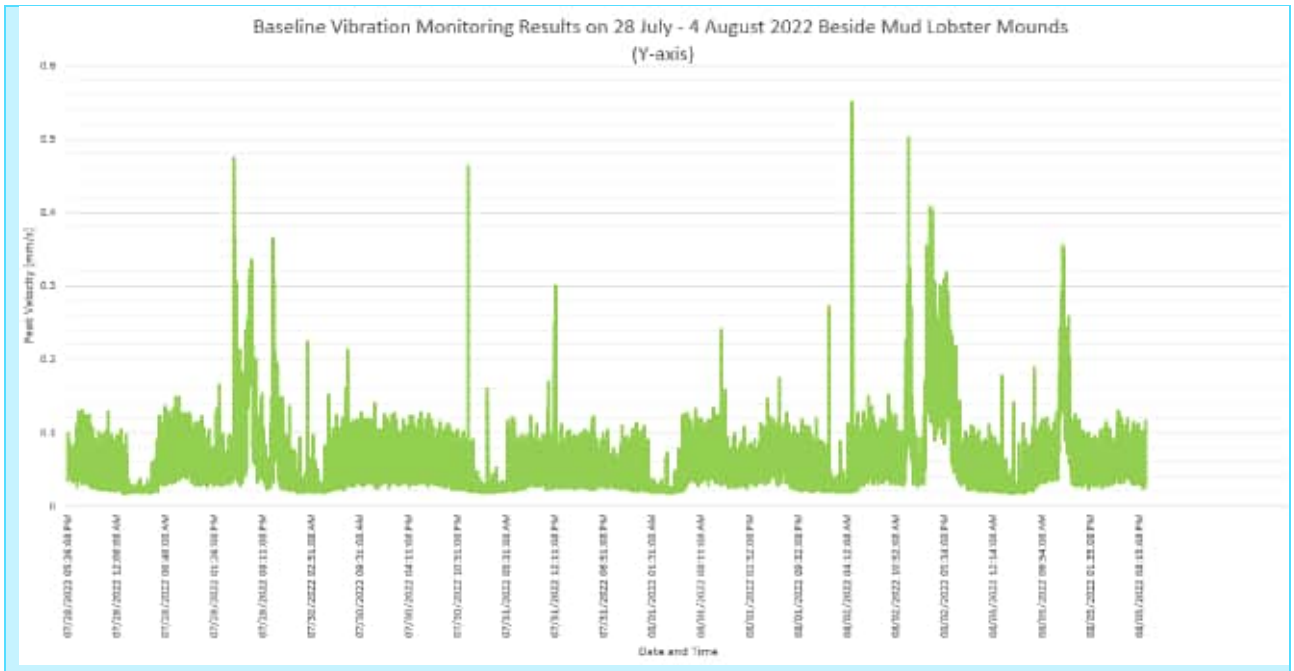


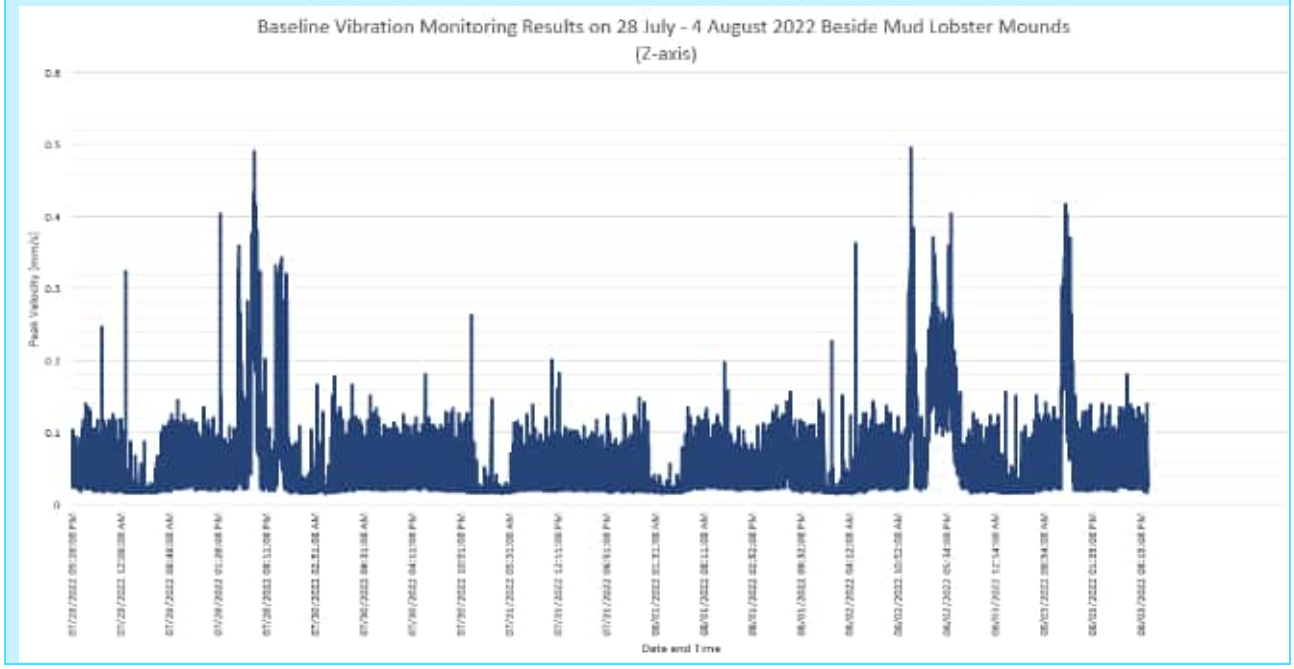

Baseline Vibration Monitoring Results on 21 July - 28 July 2022 at Existing Viaduct
(Y-axis)
Peak Velocity (mm/s)
Date and Time


Baseline Vibration Monitoring Results on 21 July - 28 July 2022 Beside Existing NSL Viaduct
(Z-axis)
Peak Velocity (mm/s)
Date and Time

Date / Time: 28th July 2022 – 4th August 2022	
Baseline Vibration Monitoring Location	Setup of Vibration Monitoring
V11: Beside Mud Lobster Mounds	




Baseline Vibration Monitoring Results on 28 July - 4 August 2022 Beside Mud Lobster Mounds
(Y-axis)
Peak Velocity (mm/s)
Date and Time


Baseline Vibration Monitoring Results on 28 July - 4 August 2022 Beside Mud Lobster Mounds
(Z-axis)
Peak Velocity (mm/s)
Date and Time

Appendix Y

List of Vibration Sensitive Receptors

Appendix Y

List of Vibration Sensitive Receptors

No.	Address	Priority	Building Use
1	21A Woodlands Road	3	Industrial
2	632 Senja Road	2	Residential
3	633 Senja Road	2	Residential
4	633B Senja Road	2	Residential
5	632A Senja Road	2	Residential
6	633A Senja Road	2	Residential
7	634C Senja Road	3	Residential
8	634A Senja Road	2	Residential
9	634B Senja Road	2	Residential
10	634 Senja Road	2	Residential
11	635B Senja Road	2	Residential
12	635A Senja Road	2	Residential
13	635 Senja Road	2	Residential
14	250A Woodlands Road	3	Industrial
15	243A Woodlands Road	3	Industrial
16	3 Jln Gali Batu	3	Industrial
17	5 Stagmont RIng	3	Industrial
18	38 Choa Chu Kang Street 64	2	Residential
19	40 Choa Chu Kang Street 64	2	Residential
20	36 Choa Chu Kang Street 64	2	Residential
21	42 Choa Chu Kang Street 64	2	Residential
22	44 Choa Chu Kang Street 64	2	Residential
23	46 Choa Chu Kang Street 64	2	Residential
24	692A Choa Chu Kang Cres	2	Residential
25	656 Choa Chu Kang Cres	2	Residential
26	691 Choa Chu Kang Cres	3	Recreational
27	691A Choa Chu Kang Cres	2	Residential
28	691B Choa Chu Kang Cres	2	Residential
29	8 Sungei Kadut Avenue	3	Industrial
30	690D Choa Chu Kang Cres	2	Residential
31	690C Choa Chu Kang Cres	2	Residential
32	19 Sungei Kadut Avenue	3	Industrial
33	14 Sungei Kadut Avenue	3	Industrial
34	16 Sungei Kadut Avenue	3	Industrial
35	18 Sungei Kadut Avenue	3	Industrial
36	20 Sungei Kadut Way	3	Industrial
37	2C Mandai Estate	3	Industrial
38	22 Sungei Kadut Avenue	3	Industrial
39	32 Sungei Kadut Way	3	Industrial
40	2B Mandai Estate	3	Industrial
41	20A Sungei Kadut Way	3	Industrial
42	20 Sungei Kadut Way	3	Industrial
43	18 Sungei Kadut Way	3	Industrial
44	2A Mandai Estate	3	Industrial
45	15 Sungei Kadut Way	3	Industrial
46	5 Sungei Kadut Way	3	Industrial
47	31 Sungei Kadut Avenue	3	Industrial
48	45 Sungei Kadut Avenue	3	Industrial

List of Vibration Sensitive Receptors

No.	Address	Priority	Building Use
49	33 Sungei Kadut Avenue	3	Industrial
50	39 Sungei Kadut Avenue	3	Industrial
51	17 Sungei Kadut Way	3	Industrial
52	48 Sungei Kadut Avenue	3	Industrial
53	46 Sungei Kadut Avenue	3	Industrial
54	23H Sungei Kadut Street 1	3	Industrial
55	23F Sungei Kadut Street 1	3	Industrial
56	21 Sungei Kadut Street 1	3	Industrial
57	23A Sungei Kadut Street 1	3	Industrial
58	15 Sungei Kadut Street 2	3	Industrial
59	15 Sungei Kadut Street 2	3	Industrial
60	5 Sungei Kadut Street 2	3	Industrial
61	8 Sungei Kadut Street 2	3	Industrial
62	18 Sungei Kadut Street 2	3	Industrial
63	8 Sungei Kadut Street 2	3	Industrial
64	36 Sungei Kadut Street 2	3	Industrial
65	38 Sungei Kadut Street 2	3	Industrial
66	38 Sungei Kadut Street 2	3	Industrial
67	25 Sungei Kadut Street 2	3	Industrial
68	31 Sungei Kadut Street 2	3	Industrial
69	31 Sungei Kadut Street 2	3	Industrial
70	29 Sungei Kadut Street 2	3	Industrial
71	29 Sungei Kadut Street 2	3	Industrial
72	31 Sungei Kadut Street 2	3	Industrial
73	29 Sungei Kadut Street 2	3	Industrial
74	31 Sungei Kadut Street 2	3	Industrial
75	29 Sungei Kadut Street 2	3	Industrial
76	31 Sungei Kadut Street 2	3	Industrial
77	7 Sungei Kadut Street 3	3	Industrial
78	Beside 3 Sungei Kadut Street 3	3	Industrial
79	3 Sungei Kadut Street 3	3	Industrial
80	3 Sungei Kadut Street 3	3	Industrial
81	Beside 3 Sungei Kadut Street 3	3	Industrial
82	8 Sungei Kadut Street 3	3	Industrial
83	10 Sungei Kadut Street 3	3	Industrial
84	10 Sungei Kadut Street 3	3	Industrial
85	6 Sungei Kadut Street 3	3	Industrial
86	25 Sungei Kadut Avenue	2	Place of Worship
87	337 Woodlands Road	3	Industrial
88	Tennis Court Beside 46 Choa Chu Kang Street 64	3	Recreational
89	692 Choa Chu Kang Cres	3	Residential
90	7 Mandai Link	3	Industrial
91	12 Sungei Kadut Avenue	3	Industrial
92	350 Woodlands Road	3	Industrial
93	350 Woodlands Road	3	Industrial
94	350 Woodlands Road	3	Industrial
95	350 Woodlands Road	3	Industrial
96	350 Woodlands Road	3	Industrial

List of Vibration Sensitive Receptors

No.	Address	Priority	Building Use
97	350 Woodlands Road	3	Industrial
98	350 Woodlands Road	3	Industrial
99	350 Woodlands Road	3	Industrial
100	350 Woodlands Road	3	Industrial
101	350 Woodlands Road	3	Industrial
102	Building between 2A and 2B Mandai Estate	3	Industrial
103	Container Building along Gali Batu Close	3	Industrial
104	689 Choa Chu Kand Drive	3	Industrial
105	632B Senja Road	2	Residential
106	633C Senja Road	2	Residential
107	9 Sungei Kadut Street 3	3	Industrial
108	692B Choa Chu Kang Cres	2	Residential
109	690A Choa Chu Kang Cres	2	Residential
110	32 Choa Chu Kang Street 64	2	Residential
111	6D Mandai Estate	3	Industrial
112	90 Mandai Estate	3	Industrial
113	96 Mandai Estate	3	Industrial
114	94 Mandai Estate	3	Industrial
115	92 Mandai Estate	3	Industrial
116	88 Mandai Estate	3	Industrial
117	633D Senja Road	2	Residential
118	West View Primary School	2	Educational Institution
119	180 Woodlands Road	3	Commercial
120	663 Choa Chu Kang Cres	2	Residential
121	662 Choa Chu Kang Cres	2	Residential
122	668A Choa Chu Kang Cres	3	Residential
123	664 Choa Chu Kang Cres	2	Residential
124	661 Choa Chu Kang Cres	2	Residential
125	656 Choa Chu Kang Cres	3	Residential
126	Beside 3 Sungei Kadut Street 3	3	Industrial
127	4 Sungei Kadut Street 3	3	Industrial
128	4 Sungei Kadut Street 3	3	Industrial
129	4 Sungei Kadut Street 3	3	Industrial
130	31 Sungei Kadut Street 2	3	Industrial
131	38 Sungei Kadut Street 2	3	Industrial
132	6 Sungei Kadut Street 2	3	Industrial
133	6 Sungei Kadut Street 2	3	Industrial
134	27 Sungei Kadut Street 1	3	Industrial
135	27 Sungei Kadut Street 1	3	Industrial
136	27 Sungei Kadut Street 1	3	Industrial
137	27 Sungei Kadut Street 1	3	Industrial
138	27 Sungei Kadut Street 1	3	Industrial
139	27 Sungei Kadut Street 1	3	Industrial
140	25 Sungei Kadut Street 1	3	Industrial
141	Beside 25A Sungei Kadut Street 1	3	Industrial
142	23 Sungei Kadut Street 1	3	Industrial
143	36 Sungei Kadut Street 1	3	Industrial
144	Beside 34 Sungei Kadut Street 1	3	Industrial

Appendix Y

List of Vibration Sensitive Receptors

No.	Address	Priority	Building Use
145	6A Mandai Estate	3	Industrial
146	566 Woodlands Road	3	Commercial
147	350 Woodlands Road	3	Industrial

Appendix Z

MOTIV Vibration Modelling Results

Appendix Z Details of Modelling of Train Induced Vibration (MOTIV)

MOTIV (Modelling Of Train Induced Vibration) software is a powerful computational tool for calculating vibration from surface and underground railways and for assessing the performance of vibration countermeasures at the track and/or the train vehicle(s).

For this Project, the underground application would be used for predictions.

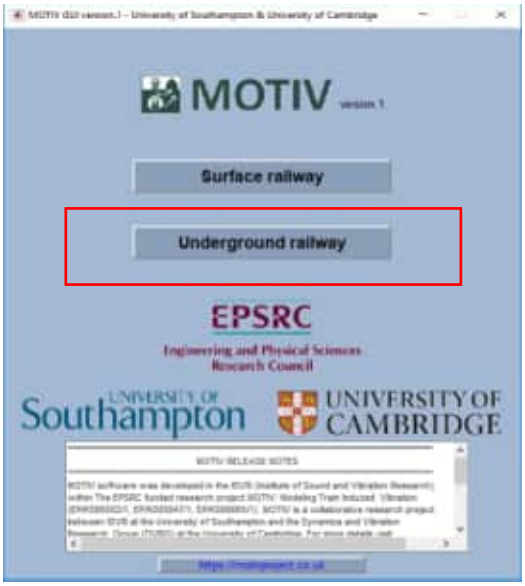


Figure 1 Underground Railway Used for Predictions

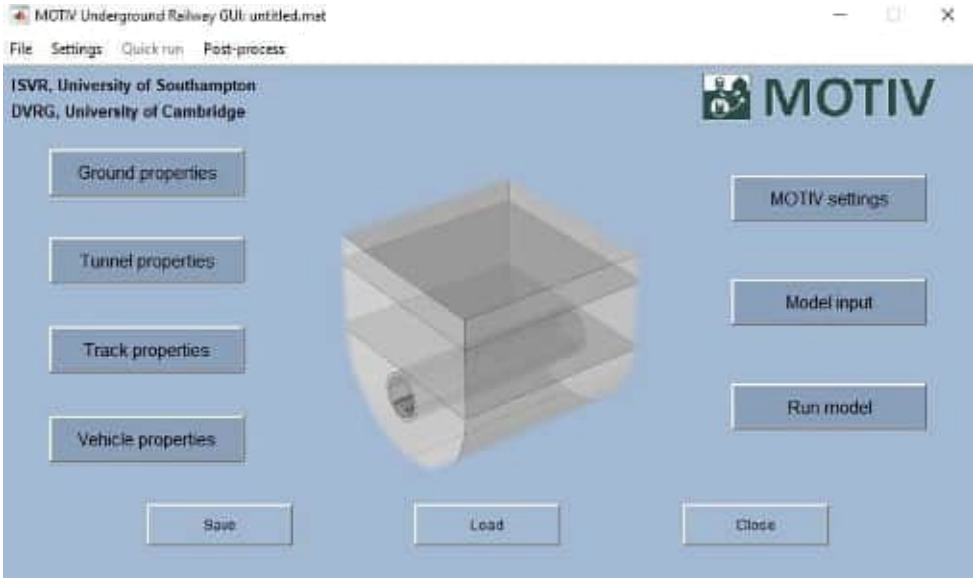
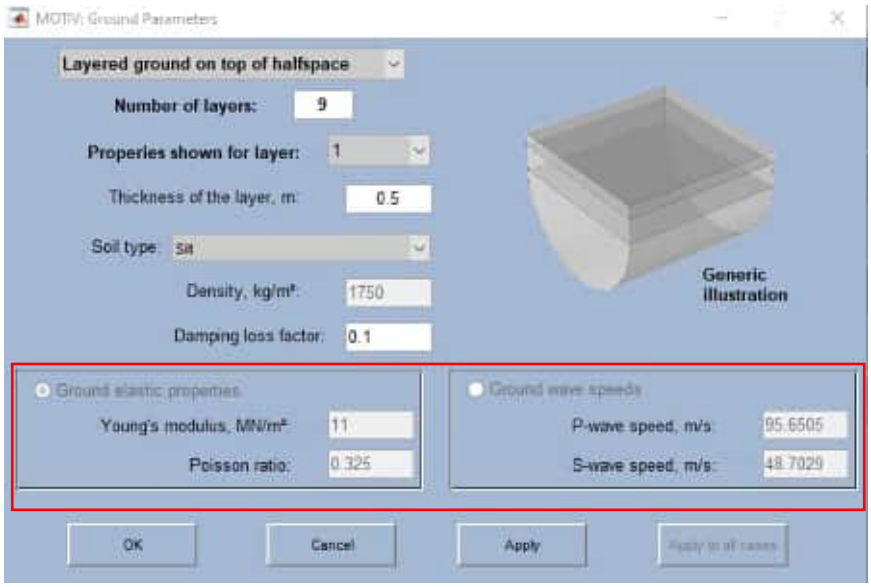


Figure 2 Front Page Underground Railway application

1. **Ground Model**

In MOTIV, each receptor is modelled using layered ground on top of half-space as seen in Figure 3. In order to model the ground in MOTIV, the thickness, density, and elastic properties (elastic modulus (E) and Poisson ratio (v)) of each layer were defined.



Only available using "User Defined" soil type

Figure 3 Layered Ground on Top of Half-Space Used for Ground Properties

2. Track Model

In MOTIV, the track structure is modelled as multiple beams that are supported by vertical springs with consistent mass and linear dynamic behaviour throughout. The standard slab track is regarded continuous in MOTIV, and it rests directly on the ground surface for surface railways and in the tunnel invert for underground railways.

In the Track Parameters window, parameters can be defined for different types of ballasted or slab track forms. In this Project, we used Slab Track. A summary of the Track Parameters is shown in Table 2-1.

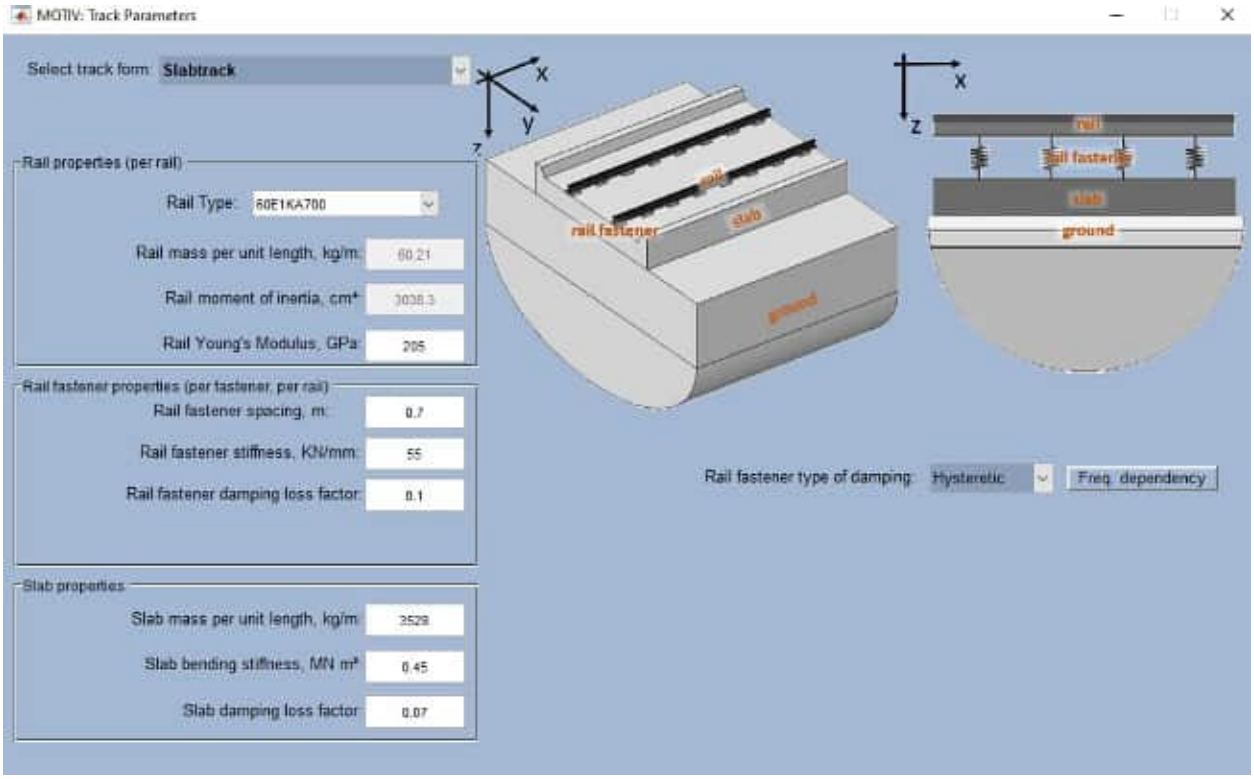


Figure 4 Details of Track Parameters

Table 2-1 Summary of Track Parameters

Parameter	Value/Units	Obtained From
Rail type	60E1	LTA
Rail's Young's Modulus	205 GPa	MOTIV Default
Rail fastener spacing	0.7 m	LTA
Rail fastener stiffness	55 KN/mm	LTA
Rail fastener damping loss factor	0.1	MOTIV Default
Slab mass per unit length kg/m	3528	Calculations
Slab Bending stiffness = E * Moment of Inertia (Nm^2)	0.45	
Slab damping loss factor	0.07	Research

3. Tunnel Model

In MOTIV, the ground submodel is 3D related to longitudinally invariant circular tunnel construction. The model assumes that the tunnel's near-field displacement is unaffected by existing free surface or ground layers, that is to say regardless of free surface and ground layers, the displacement at the tunnel-soil interface is the same.

In the Tunnel Parameters window, these parameters must be defined:

i. External radius of the tunnel in meters;
ii. Thickness of the tunnel wall in meters;
iii. Density of the tunnel structure in kg/m3;
iv. Young's modulus of the tunnel structure in GPa;
v. Poisson ratio of the tunnel material;
vi. Hysteretic shear damping loss factor of the tunnel structure; and
vii. Hysteretic dilatational damping loss factor of the tunnel structure.

If a slab-type tunnel invert structure is considered, additional properties should be input into the Tunnel Parameters window:

i. Mass per unit length of the tunnel invert in kg/m;
ii. Bending stiffness of the tunnel invert in MN m^2; and
iii. Hysteretic damping loss factor of the tunnel invert.

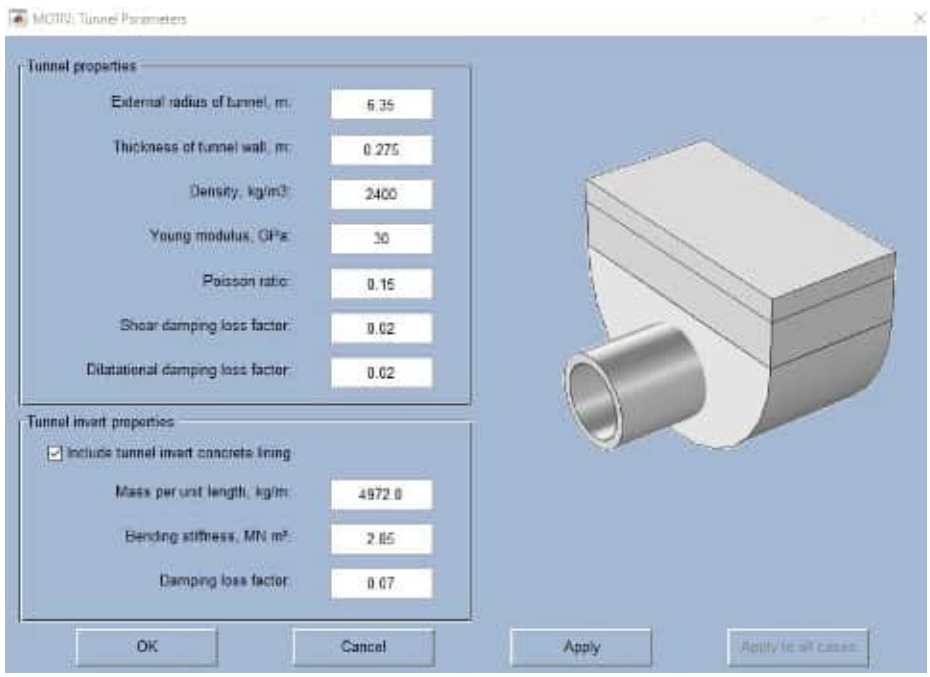


Figure 5 Details of Tunnel Parameters

Table 3-1 Summary of Tunnel Parameters

Parameter	Value/Units	Obtained From
External radius of tunnel	6.35 m	Project Manager
Thickness of tunnel	0.275 m	
Density	2400	Research

Young's Modulus	30 GPa	Concrete tunnel
Poisson ratio of the tunnel material	0.15	Research
Hysteretic shear damping loss factor of the tunnel structure.	0.02	MOTIV Default
Hysteretic dilatational damping loss factor of the tunnel structure	0.02	
Tunnel invert: Mass per unit length	4972.8	Calculations
Tunnel invert: Bending stiffness = E * Moment of Inertia (Nm^2)	2.85	
Tunnel invert: Damping loss factor	0.07	Research

4. Vehicle Model

The train is modelled as a generic rolling stock using the unsprung masses only.

For the case of "*Generic Rolling Stock Using Unsprung Masses Only*", the vehicle properties were defined as shown in Figure 6.

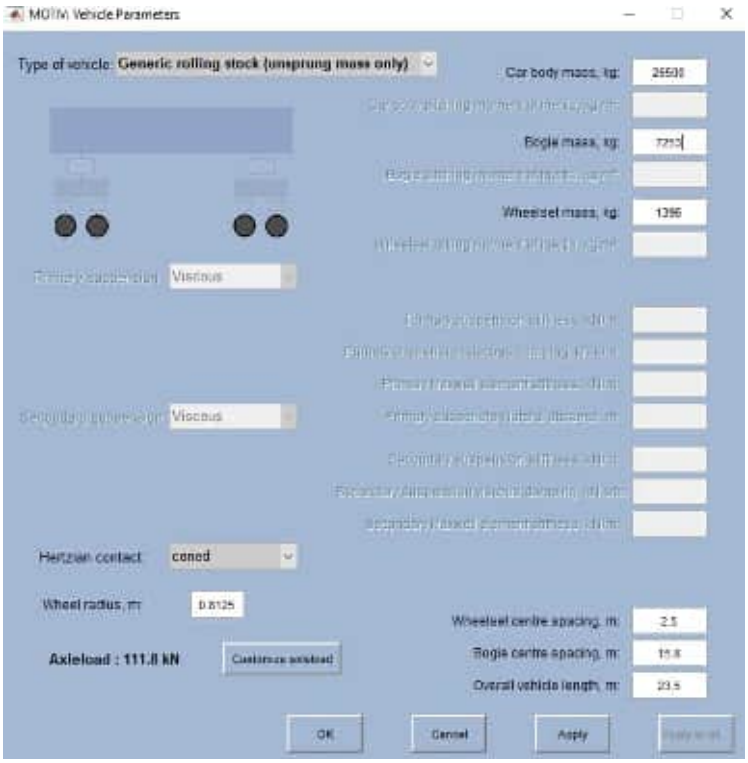


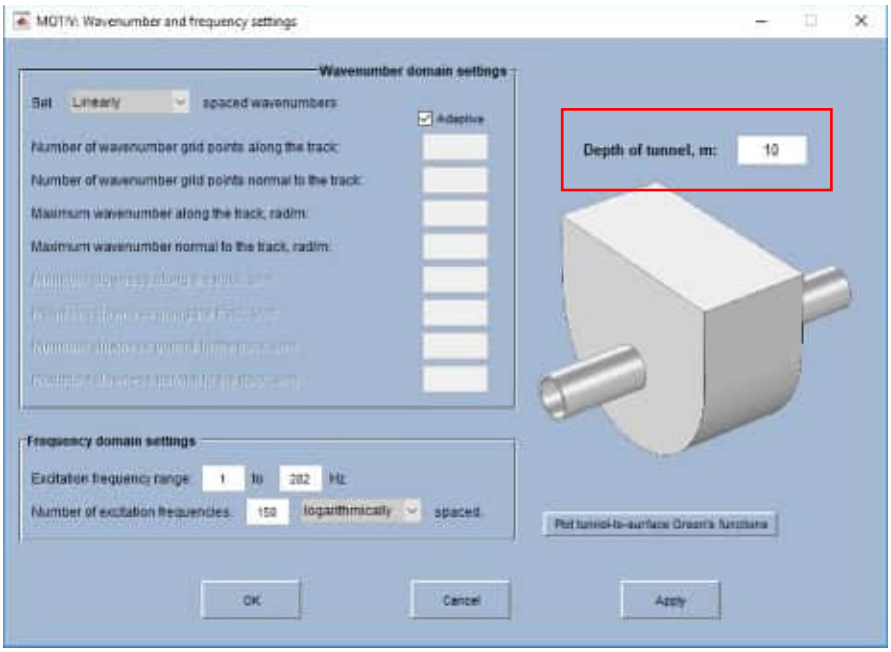
Figure 6 Details of Vehicle Parameters

Table 4-1 Summary of Vehicle Parameters

Car body mass	25500 kg	Given by LTA
Bogie Mass	7253 kg	
Wheelset Mass	1396 kg	
Wheel radius	0.8125	
Wheelset centre spacing	2.5 m	
Bogie centre spacing	15.8 m	
Overall vehicle length	23.5 m	

5. MOTIV Settings

For an underground railway system, the depth of the vertical distance of the ground surface to the central axis of the tunnel should not be less than the external radius of the tunnel (see Table 3-1). For receptors with vertical depth less than external radius of the tunnel, the external radius was used as the depth as the bare minimum for prediction.



Minimum value = 6.35 m
(external radius of tunnel)

It should be mentioned that the model calculates the ground response due to tunnel-soil interaction forces at various distinct depths in the case of underground trains.

6. MOTIV Input

In the Model Input Parameters window, the speed (km/h), number of vehicles and spectrum of geometrical track unevenness can be included.

There are a number of track unevenness spectra available by default. Unevenness levels assessed from real tracks and track classifications defined by the US Federal Railroad Administration (FRA) are among them. There is a choice between:

a. FRA track classes 1-6 (with class 1 very bad track quality and 6 very good track quality)
b. measured track unevenness from a typical ballasted track
c. measured track unevenness from a high-speed ballasted track
d. measured track unevenness from a high-speed slab track

Alternatively, if given information, it is possible to input the data manually using the “Load from file” button.

In this prediction, option D. was used, with a speed of 90 km/h for a train with 3 vehicles.

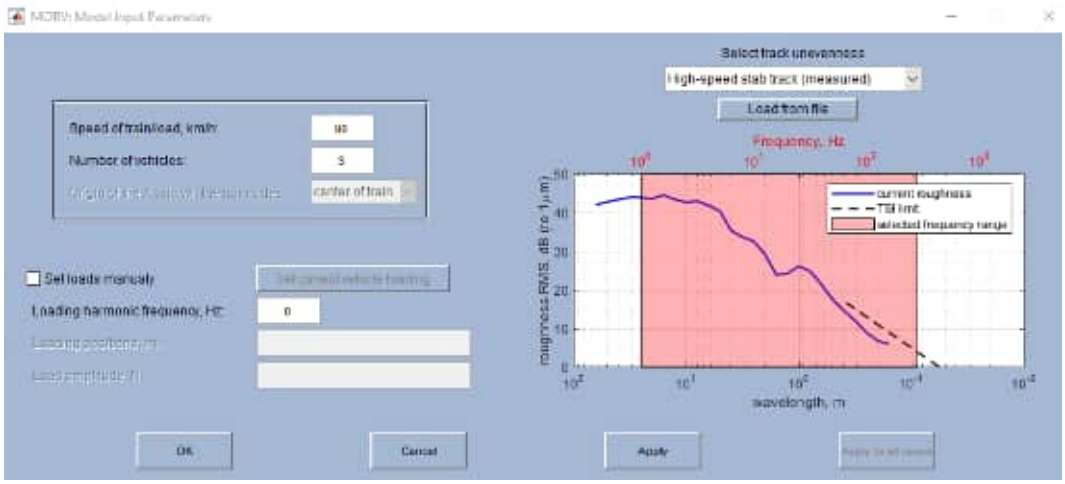


Figure 7 Details of Model Input

It should be noted that the total number of train vehicles is not required for an accurate portrayal of the ground vibration level at a distance from the track/tunnel. Only a 2-3 vehicles are required to produce accurate estimates. This reduces the processing time by keeping the size of the model along the track small.

Wheel irregularities are neglected such that all irregularities are assumed to be on the rail surface. In addition, it is assumed that the unevenness is identical between two rails.

7. Running MOTIV and MOTIV Output

MOTIV can predict:

a. static rail deflection due to the weight of the train.
b. rail deflection for a moving train
c. ground vibration level due to receptance level
d. ground vibration level for moving train

In this prediction, option D. was used.

The “depth to show vibration level” in Figure 8 was input as 0 m to calculate vibration levels on the ground surface; the “distance to show vibration level” depends on the horizontal distance of each receptor to the centre of alignment.

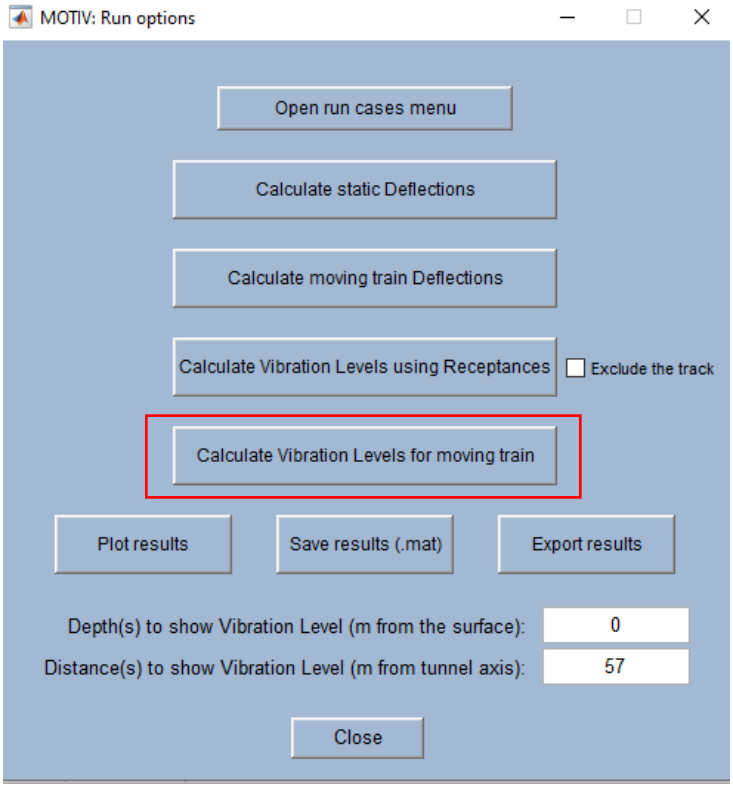


Figure 8 Details of MOTIV Run Options

MOTIV output can be presented in the form of MATLAB-compatible figures to save in jpg, png, pdf formats, excel file or for MATLAB software itself. Annex A shows the graphical vibration level results (vertical and horizontal velocities) at each receptor.

8. Calculations to Convert Vibration Velocity Levels into VDV and $L_{Amax, slow}$

For the 1/3 octave band centre frequency ranging from 1.25 to 250 Hz, the velocity levels predicted by MOTIV was converted from RMS (dB) to VDV (m/s1.75, day and night-time) and $L_{Amax, slow}$ (dB) to obtain the ground-borne vibration and noise results.

The number of trains used for calculations is shown in Table 8-1.

Table 8-1 Number of Trains in 16 h (daytime) and 8 h (night-time) Duration

DTL TRAIN	Operating hours 0530 - 2335	No. of mins	Train Frequency (per direction), mins	No. of Trains (per direction)	No. of Trains (both directions)	Total No. of Trains
Day time	Peak hour 7 am to 9 am	120	2.5	48	96	376
	Non-Peak Hour 9 am to 11 pm	840	6	140	280	
Night time	Non-Peak hour 530 am to 7 am	90	6	15	30	42
	Non-Peak hour 11 pm to 1135 pm	35	6	6	12	

Other factors and parameters required for the calculations are included in Table 8-2.

Table 8-2 Other Parameters Required for Converting Vibration Velocity to VDV and L_{ASMax}

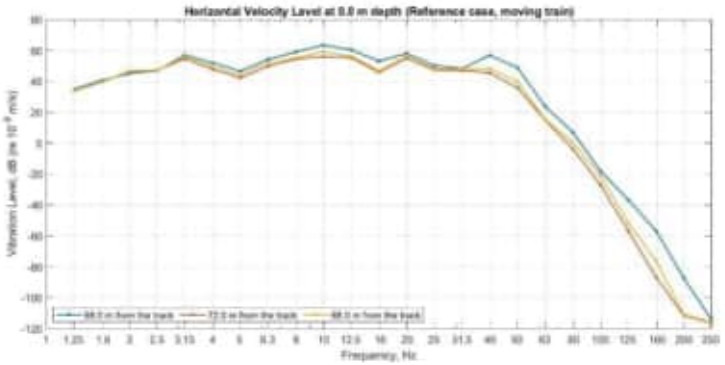
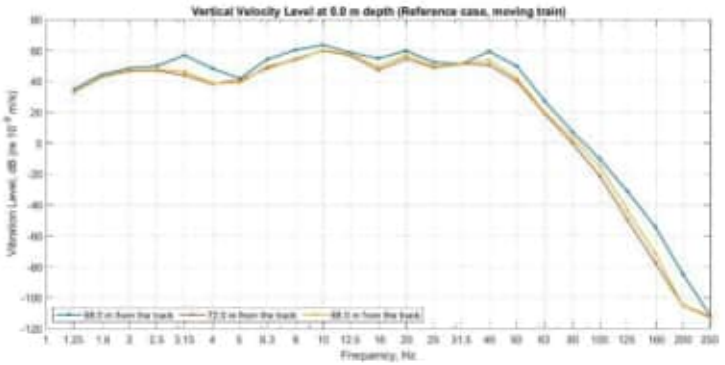
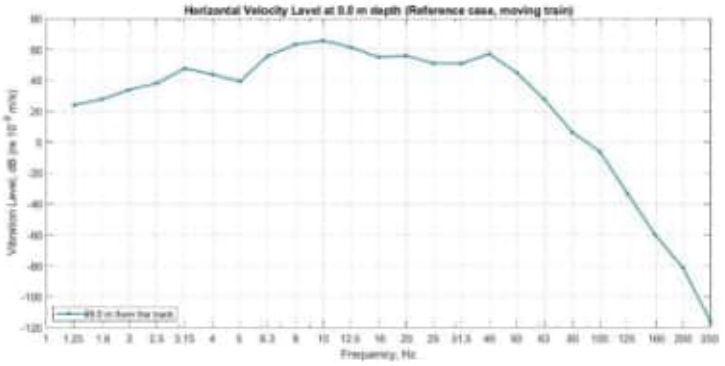
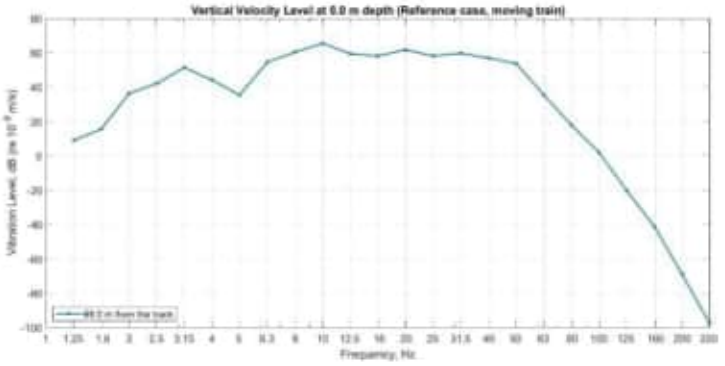
Parameter	Value	Unit
Train length	23.5	m
Train speed	90	km/h
Time to pass	0.9	seconds
Number trains - day	376	-
Number trains - night	42	-
Lv to Lp	-27	dB
L_{RMS} to SPL $L_{Amax, slow}$ factor	10	dB

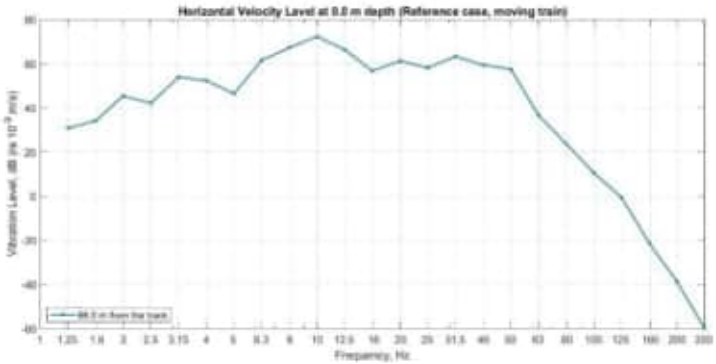
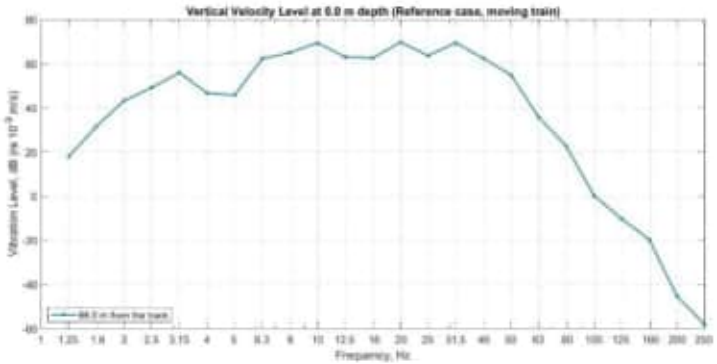
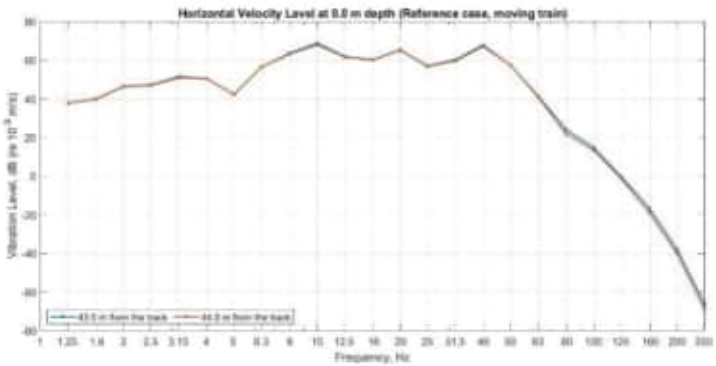
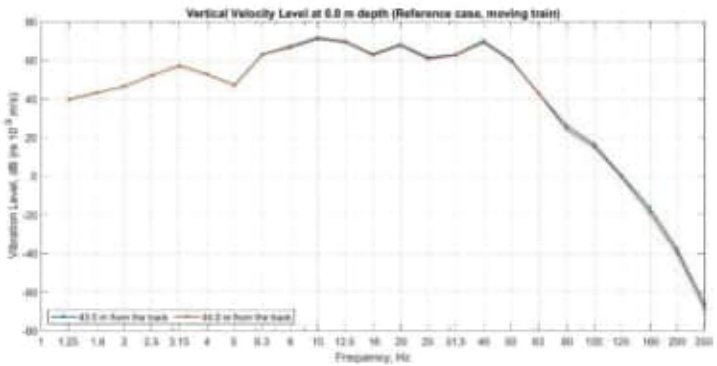
The weighted acceleration factor for each of the 1/3 octave band centre frequencies were applied to the velocity obtained from MOTIV. An overall weighted acceleration was calculated in dB and converted to m/s^2. Finally, using the overall weighted acceleration, the daytime and night-time VDV was found.

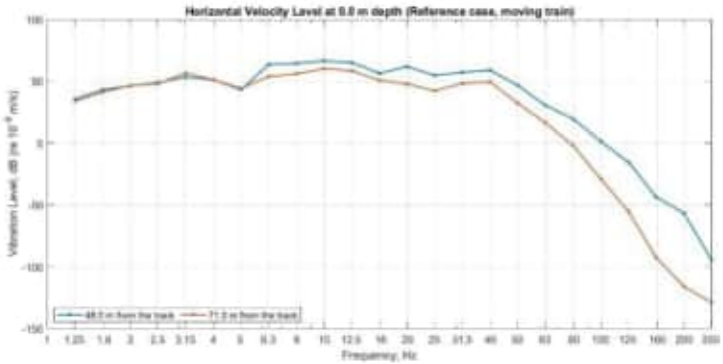
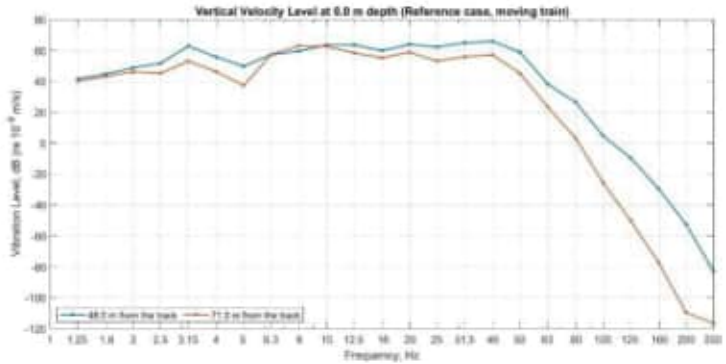
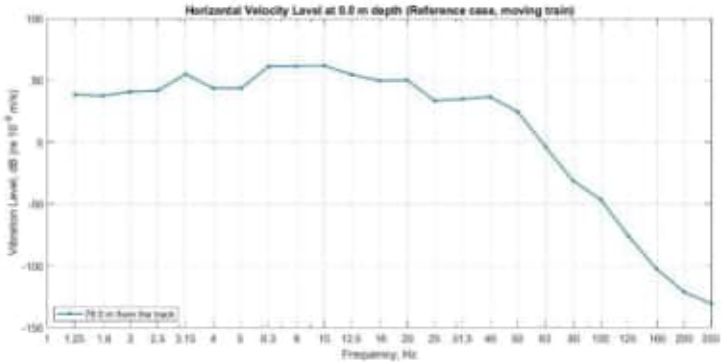
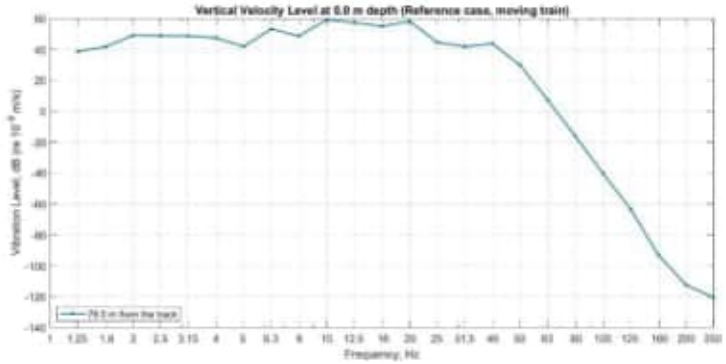
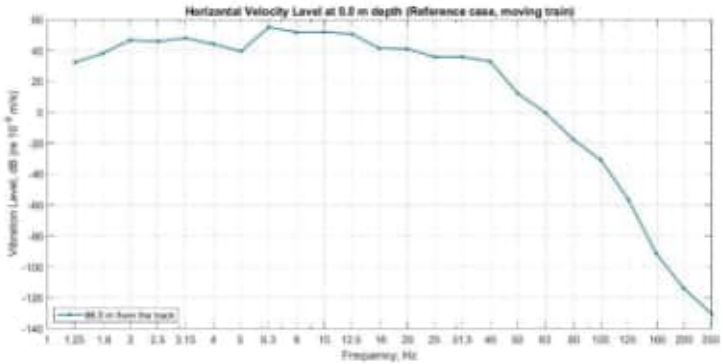
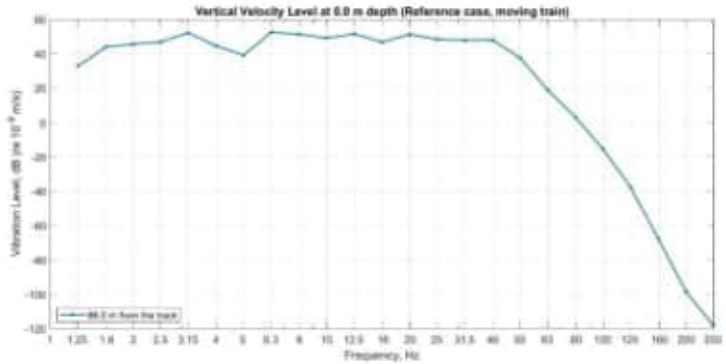
The A-weighted factor for each of the 1/3 octave band centre frequencies were applied to the velocity obtained from MOTIV. The Kurzweil's equation $L_p = L_v - 27\ dB$ was used, where L_p is the sound pressure level and L_v the value obtained from MOTIV. An overall A-weighted acceleration was calculated and the correction factor to convert RMS to $L_{Amax, slow}$ was applied.

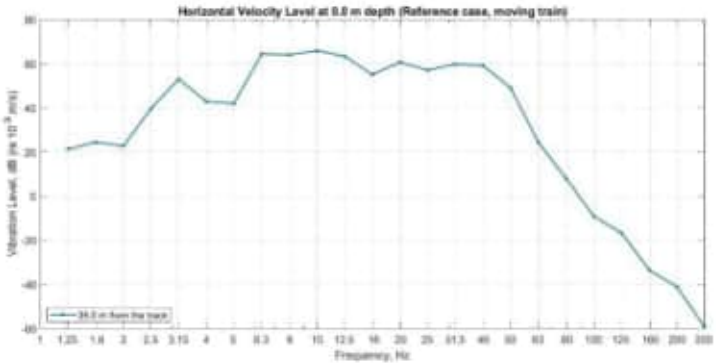
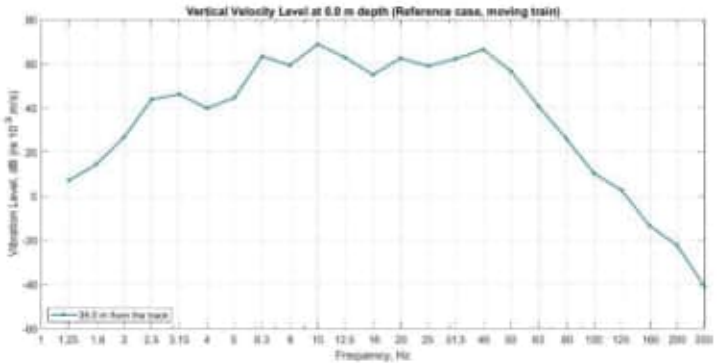
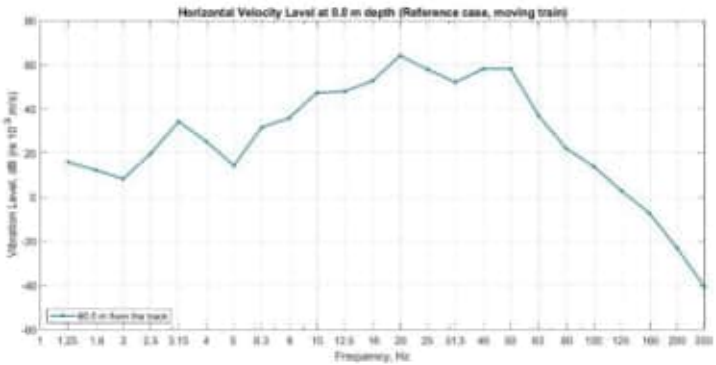
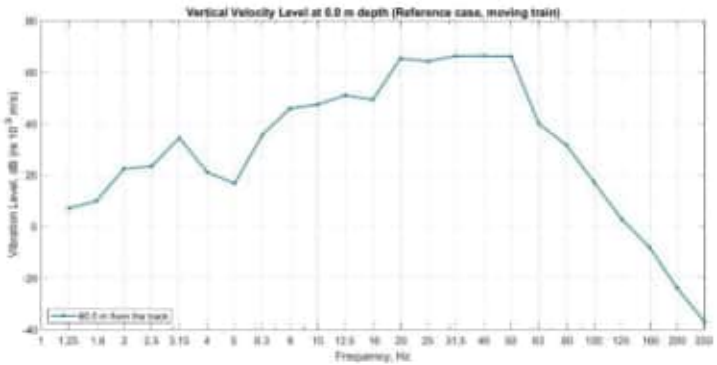
Annex A

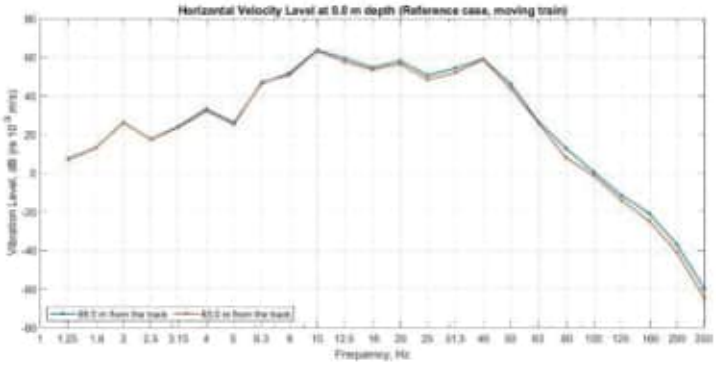
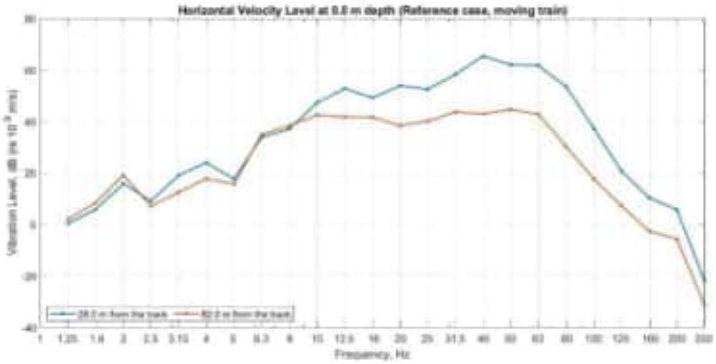
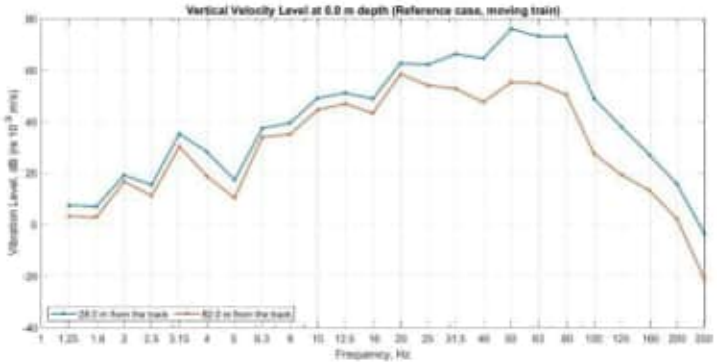
Table 1 Results of Velocity Level at Receptors (Alignment)

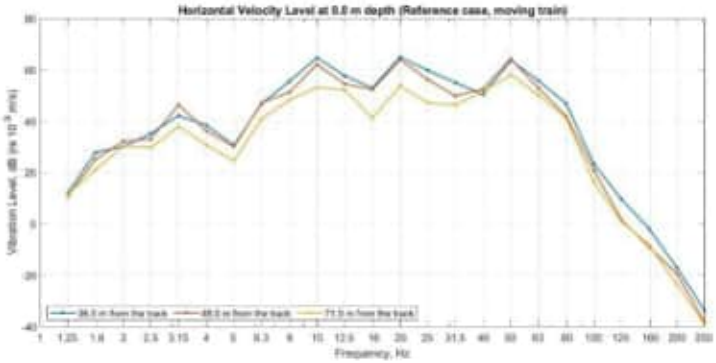
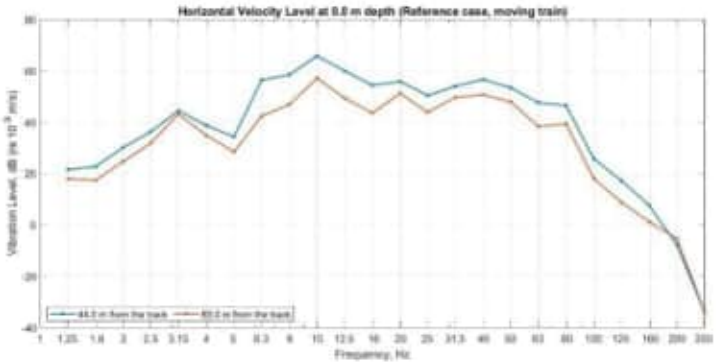
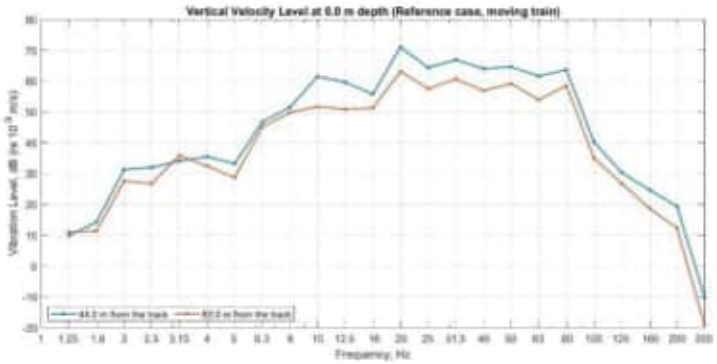
No	Receptor	Horizontal Velocity Level	Vertical Velocity Level
1	Sungei Kadut Fire Post		
2	10 Sungei Kadut Street 3		
3	6 Sungei Kadut Street 3		
4	3 Sungei Kadut Street 3		

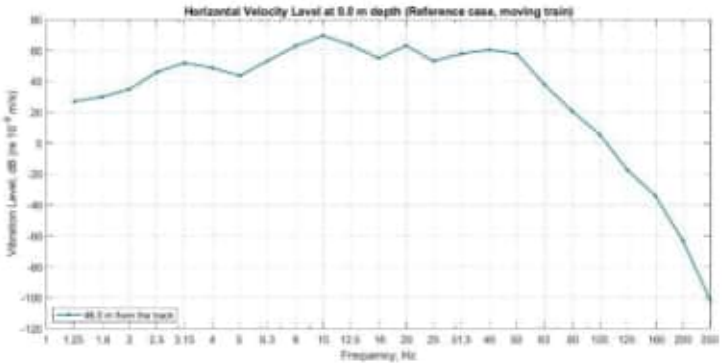
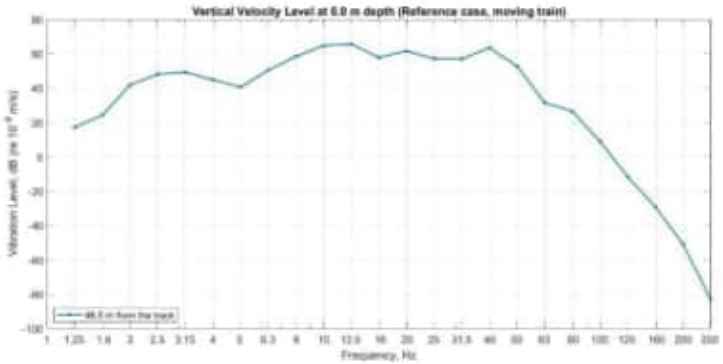
No	Receptor	Horizontal Velocity Level	Vertical Velocity Level
5	7 Sungei Kadut Street 3/ Grandwork Building		
6	25 Sungei Kadut Street 2		
7	29 Sungei Kadut Street 2		
8	36 Sungei Kadut Street 2		

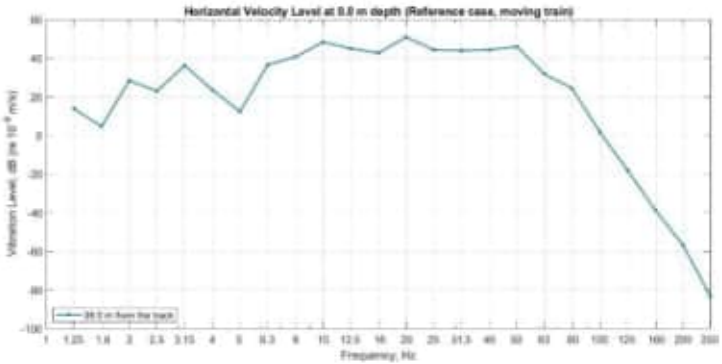
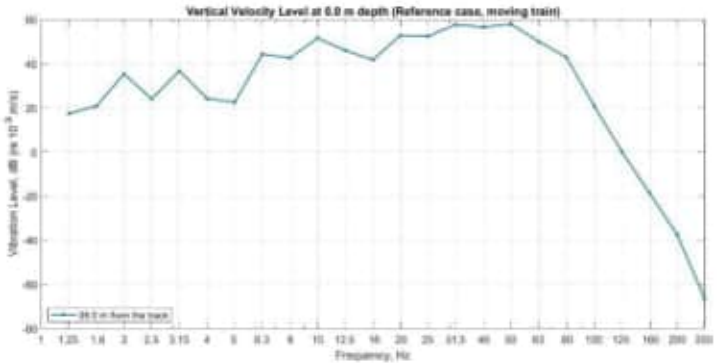
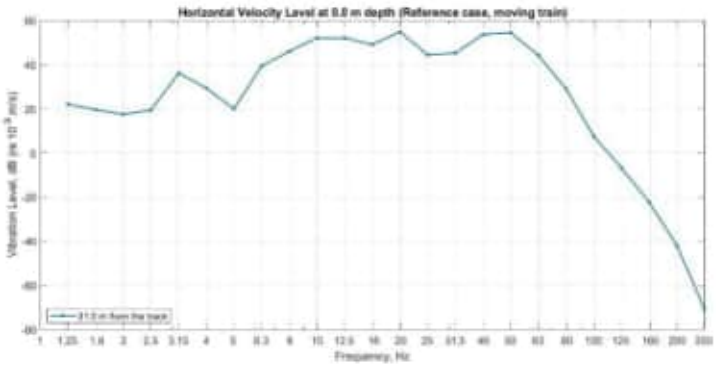
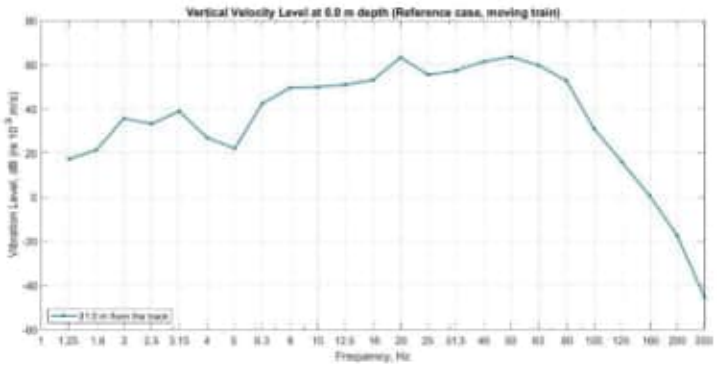
No	Receptor	Horizontal Velocity Level	Vertical Velocity Level
9	38 Sungei Kadut Street 2		
10	18 Sungei Kadut Street 2		
11	8 Sungei Kadut Street 2		

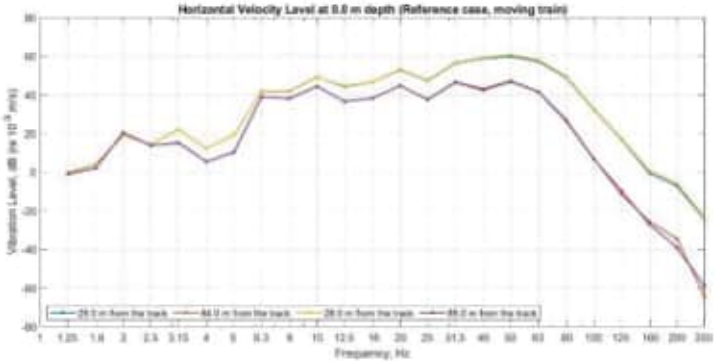
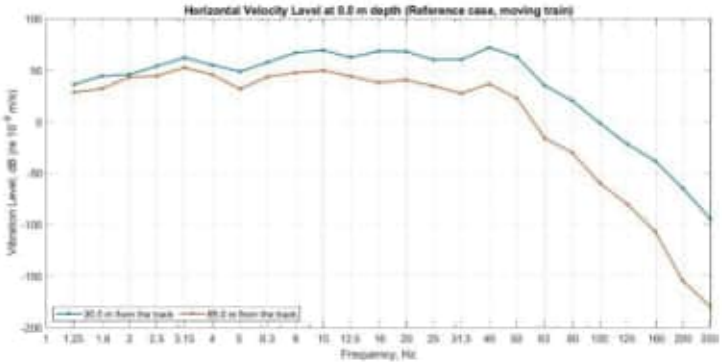
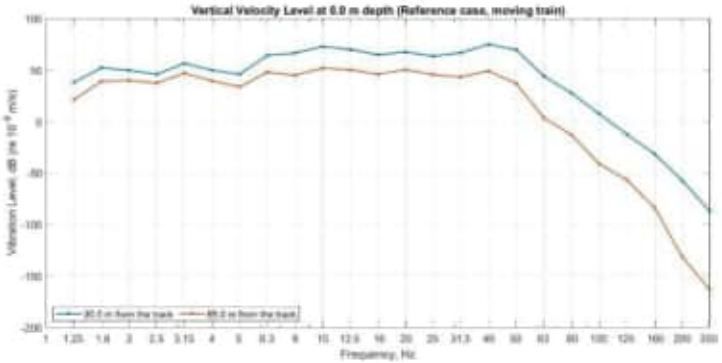
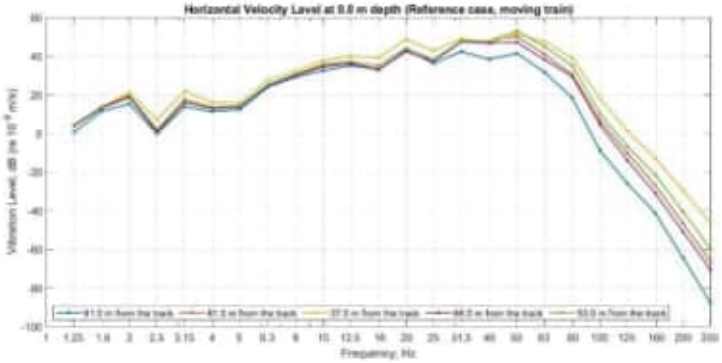
No	Receptor	Horizontal Velocity Level	Vertical Velocity Level
12	15 Sungei Kadut Street 2		
13	Trendspace		
14	23F Sungei Kadut Street 1		
15	23H Sungei Kadut Street 1		
16	48 Sungei Kadut Avenue		

No	Receptor	Horizontal Velocity Level	Vertical Velocity Level
17	46 Sungei Kadut Avenue		
18	45 Sungei Kadut Avenue		
19	5 Sungei Kadut Way		
20	39 Sungei Kadut Avenue		
21	17 Sungei Kadut Way		

No	Receptor	Horizontal Velocity Level	Vertical Velocity Level
22	20A Sungei Kadut Way		
23	20 Sungei Kadut Way		
24	18 Sungei Kadut Way		
25	13 Sungei Kadut Way		
26	15 Sungei Kadut Way		

No	Receptor	Horizontal Velocity Level	Vertical Velocity Level
27	19 Sungei Kadut Avenue		
28	369 Woodlands Road		
29	375 Woodlands Road		
30	385 Woodlands Road		
31	365 Woodlands Road		

No	Receptor	Horizontal Velocity Level	Vertical Velocity Level
32	337 Woodlands Road		
33	5 Stagmont Ring		
34	634 Senja Road		
35	635B Senja Road		
36	635A Senja Road		

No	Receptor	Horizontal Velocity Level	Vertical Velocity Level
37	635 Senja Road		
38	634A Senja Road		
39	634B Senja Road		
40	633 Senja Road		
41	633B Senja Road		
42	632 Senja Road		
43	633A Senja Road		
44	634C Senja Road		

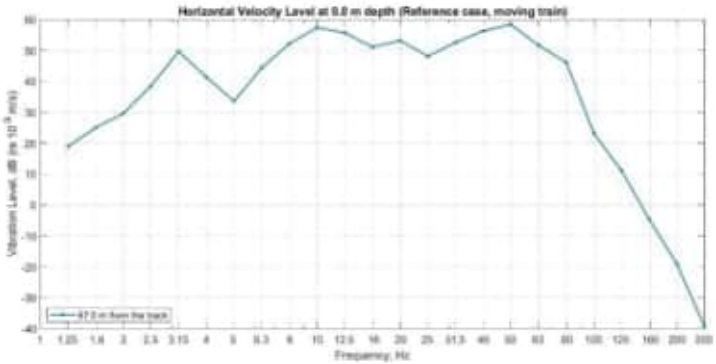
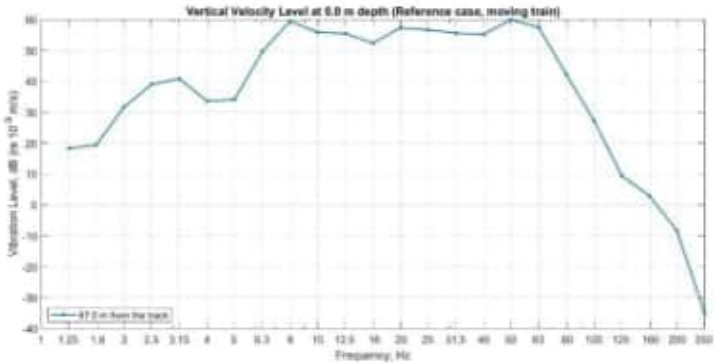
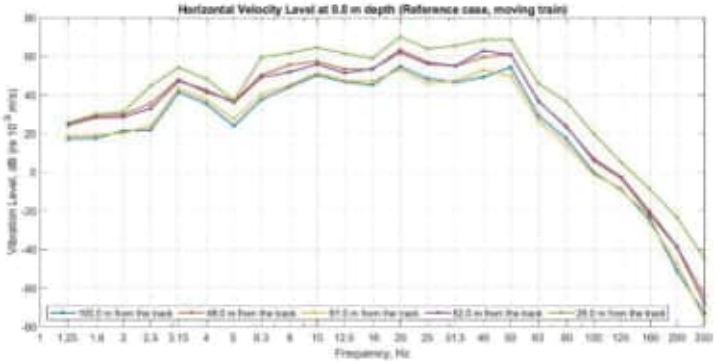
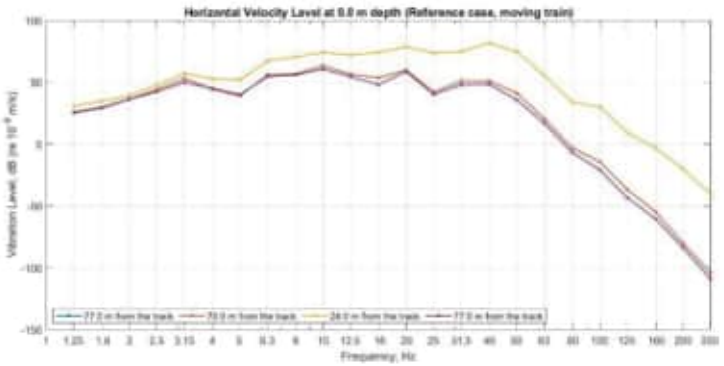
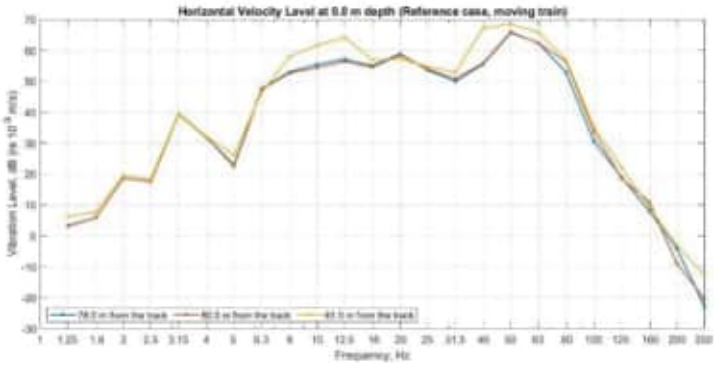
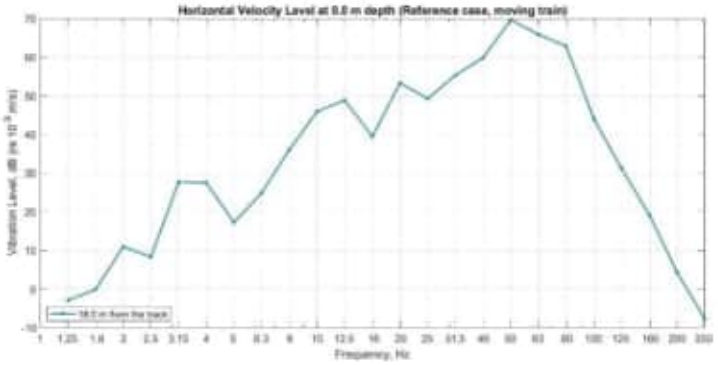
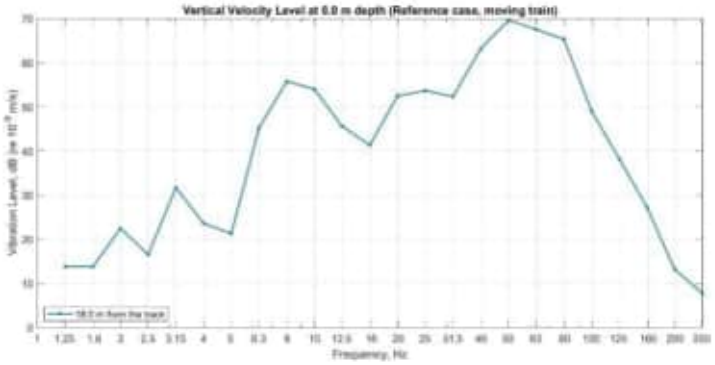
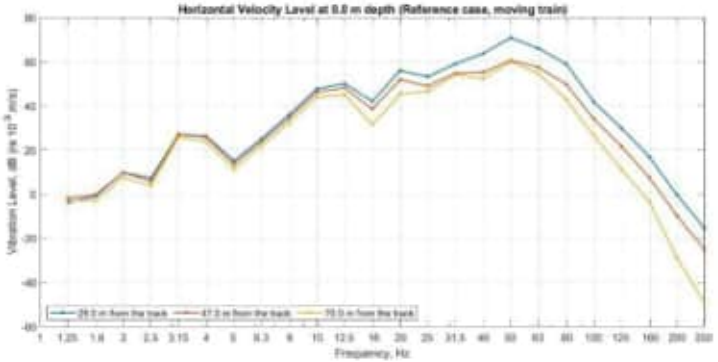
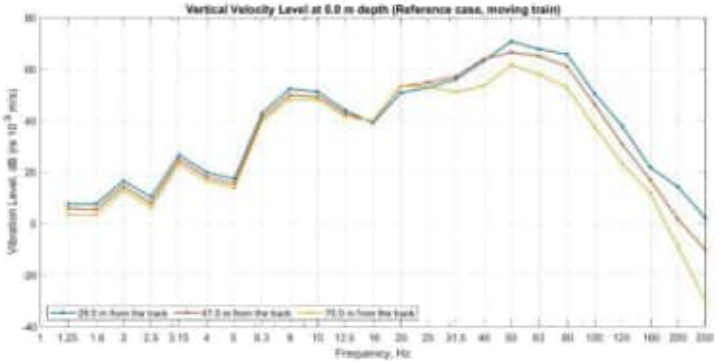
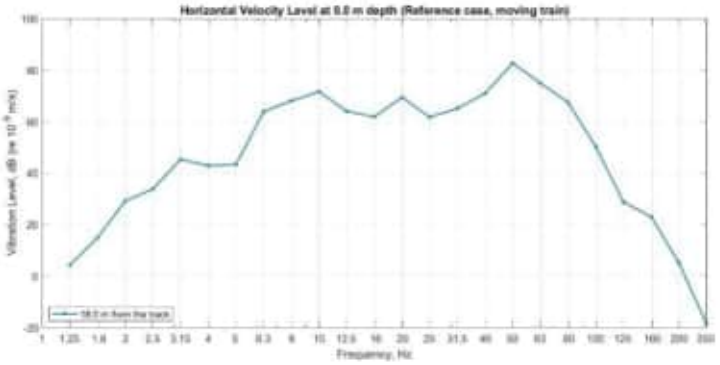
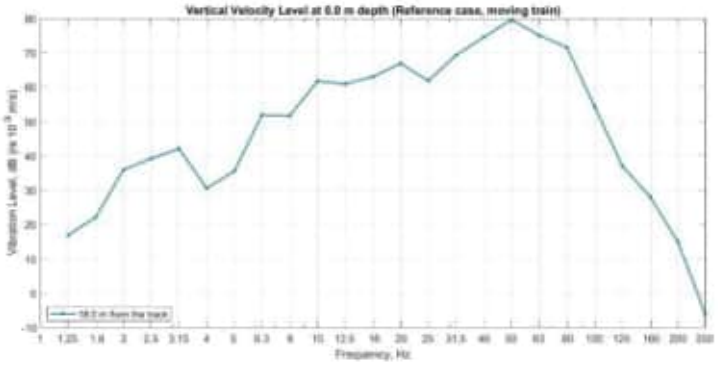
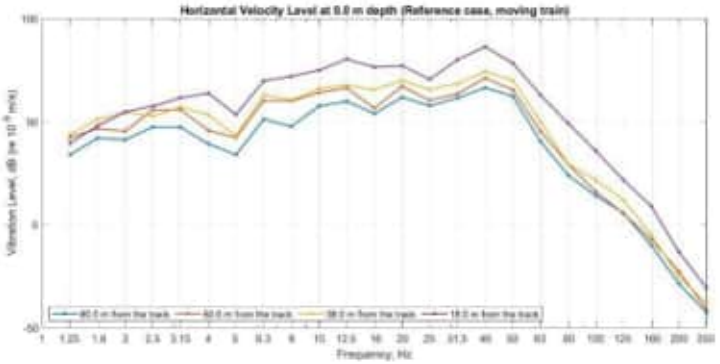
No	Receptor	Horizontal Velocity Level	Vertical Velocity Level
45	21A Woodlands Road		

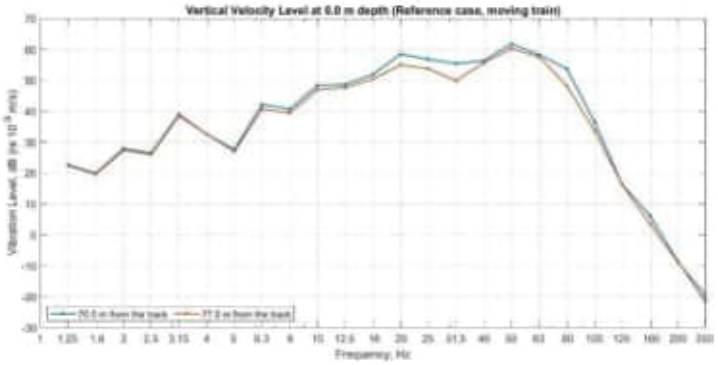
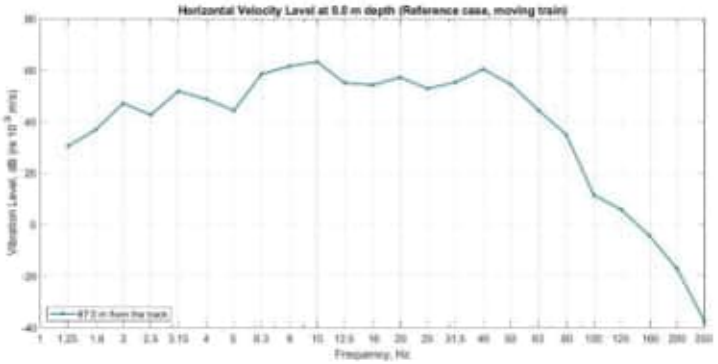
Table 2 Results of Velocity Level at Receptors (Reception Track)

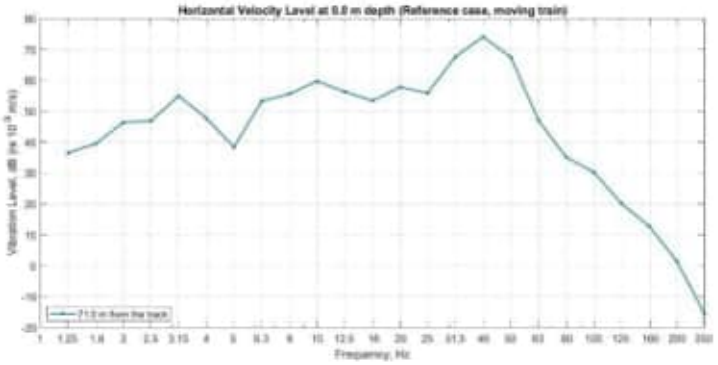
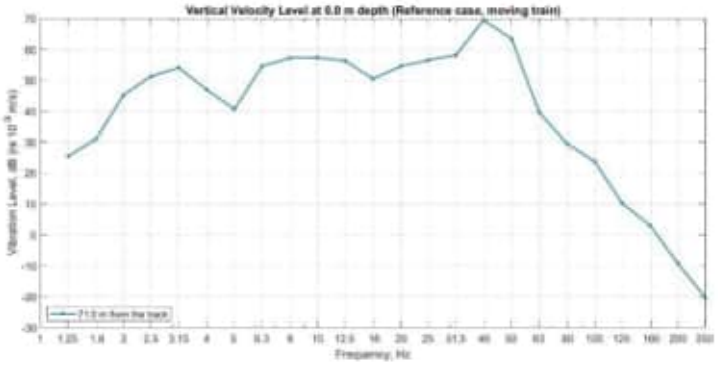
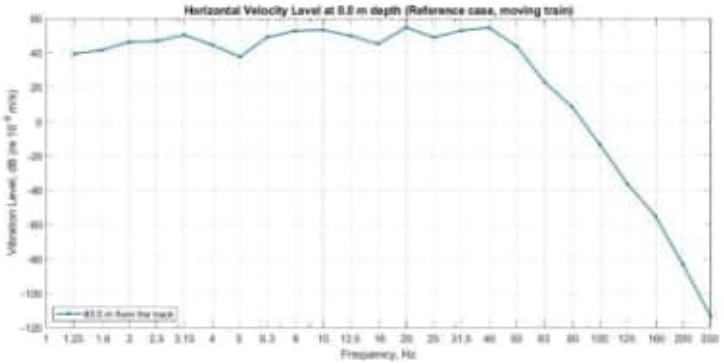
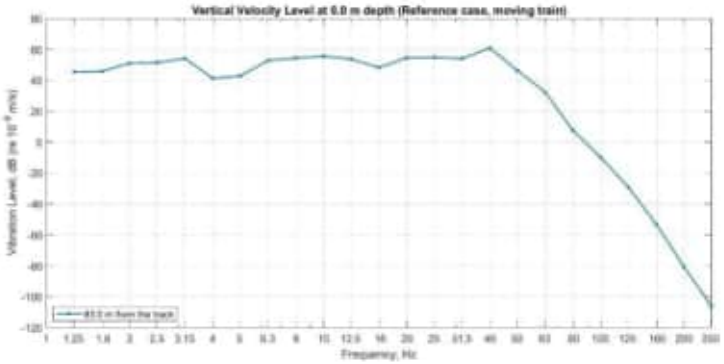
No	Receptor	Horizontal Velocity Level	Vertical Velocity Level
1	48 Sungei Kadut Avenue		
2	46 Sungei Kadut Avenue		
3	23H Sungei Kadut Street 1		
4	23F Sungei Kadut Street 1		
5	15 Sungei Kadut Street 2		
6	5 Sungei Kadut Way		

No	Receptor	Horizontal Velocity Level	Vertical Velocity Level
7	45 Sungei Kadut Avenue		
8	39 Sungei Kadut Avenue		
9	17 Sungei Kadut Way		
10	20A Sungei Kadut Way		
11	20 Sungei Kadut Way		
12	15 Sungei Kadut Way		

No	Receptor	Horizontal Velocity Level	Vertical Velocity Level
13	13 Sungei Kadut Way		
14	32 Sungei Kadut Way		
15	31 Sungei Kadut Avenue		
16	33 Sungei Kadut Avenue		

No	Receptor	Horizontal Velocity Level	Vertical Velocity Level
17	Sri Arasakesari Sivan Temple		
18	2A Mandai Estate		
19	2B Mandai Estate		
20	2C Mandai Estate		
21	22 Sungei Kadut Avenue		

No	Receptor	Horizontal Velocity Level	Vertical Velocity Level
22	5 Sungei Kadut Street 2		
24	16 Sungei Kadut Avenue		

No	Receptor	Horizontal Velocity Level	Vertical Velocity Level
25	14 Sungei Kadut Avenue		
26	12 Sungei Kadut Avenue		

Appendix AA

Rotary Bore Piling Vibration Assessment

Appendix AA - Rotary Bore Piling Vibration Assessment

Table 1 PPV Levels from BS 5228-2_2009+A1_2014

X-Axis	Measured BS 5228-2_2009+A1_2014 PPV Table D6 (all soils and modes)	Soil	Mode
3.5	0.23	Sands and gravels over chalk	Augering
3.5	2.4	Sands and gravels over chalk	Surging casing
5	0.54	6 m of the soft ground over rock	Twisting in casing
5	0.36	6 m of the soft ground over rock	Spinning off
5	0.22	6 m of the soft ground over rock	Boring with a rock auger
5	0.42	6 m of the soft ground over rock	Auguring
5	0.43	6 m of the soft ground over rock	Dollying casing
5.5	0.13	Fill including pockets of gravel over London clay	Auger hitting the base of the hole
6	0.08	Sands and gravels over chalk	Spinning off
7	1	Fill/gravel/London clay	Augering
8	0.04	Sands and gravels over chalk	Dollying casing
8	1.7	Sands and gravels over chalk	Spinning off
8	0.06	Sands and gravels over chalk	Augering
9	0.2	Fill/wet sand/lias clay	Augering
9	0.8	Fill/wet sand/lias clay	Augering
10	0.38	Fill clay	Auger hitting the base of the hole
10	1.1	Fill clay	Driving casing with 3t dolly
10	0.96	Fill clay	Augering
10	0.57	Fill clay	Mudding in
10	0.4	Fill/sand/clay	Spinning off
10	0.3	Fill/sand/clay	Dollying casing
10	0.3	Fill/sand/clay	Auger hitting the base of the hole
10	1	Fill/sand/clay	Mudding in
14	0.3	Fill/sand/clay	Dollying casing
14	0.2	Fill/sand/clay	Augering
14	0.8	Fill/sand/clay	Augering
15	0.1	Fill/sand/clay	Auger hitting the base of the hole
20	0.3	Fill clay	Augering
20	0.55	Fill clay	Hammering casing with Kelly bar
20	0.44	Fill clay	Augering
20	0.05	Fill/dense ballast/ London clay	Auger hitting the base of the hole
20	0.23	Fill/dense ballast/ London clay	Spinning off

X-Axis	Measured BS 5228-2_2009+A1_2014 PPV Table D6 (all soils and modes)	Soil	Mode
26	0.02	Fill/sand/clay	Augering
26	0.1	Fill/sand/clay	Auger hitting the base of the hole
30	0.03	Fill clay	Spinning off

$$y = ax^b$$

Where a and b are the regression coefficients that describe the relationship between x and y.

The formula to predict vibration level is:

$$ppv = 102.31(dist)^{-2.073}$$

Where

ppv is the predicted vibration level

$dist$ is the distance between vibration source and receptor

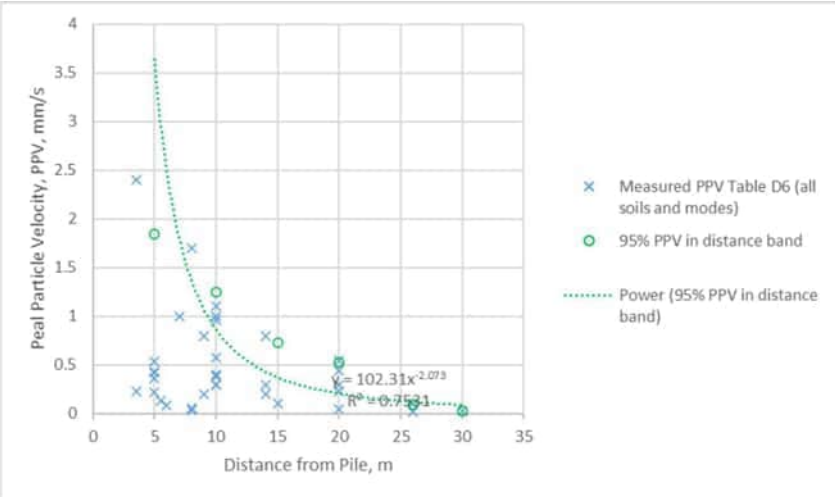


Figure 1 Regression Power Curve for Predicting Vibration Level

Table 2 Key Parameters of the Power Curve Equation

Power Curve Equation, Key Parameters		
	a	102.31
	b	-2.073
Distance (up to and including), m	**95% PPV in distance band, m**	**Predicted 95% PPV, mm/s**
5	1.8	3.64
10	1.3	0.86
15	0.7	0.37
20	0.53	0.21
26	0.10	0.12
30	0.03	0.09

Appendix BB

Detailed Vibration Assessment Results

Detailed Ground-borne Vibration Assessment Results

Rock Breaking and Excavation at Sunget Kadut Station
MIC=3.8 kg

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
1	21A Woodlands Road	Industrial	3	3154	4461	0.0	Negligible	Imperceptible	Certain	Negligible
2	632 Senja Road	Residential	2	3091	4372	0.0	Negligible	Imperceptible	Certain	Negligible
3	633 Senja Road	Residential	2	3095	4377	0.0	Negligible	Imperceptible	Certain	Negligible
4	633B Senja Road	Residential	2	3055	4321	0.0	Negligible	Imperceptible	Certain	Negligible
5	632A Senja Road	Residential	2	3008	4255	0.0	Negligible	Imperceptible	Certain	Negligible
6	633A Senja Road	Residential	2	3009	4255	0.0	Negligible	Imperceptible	Certain	Negligible
7	634C Senja Road	Residential	3	2990	4229	0.0	Negligible	Imperceptible	Certain	Negligible
8	634A Senja Road	Residential	2	2952	4174	0.0	Negligible	Imperceptible	Certain	Negligible
9	634B Senja Road	Residential	2	2948	4170	0.0	Negligible	Imperceptible	Certain	Negligible
10	634 Senja Road	Residential	2	2888	4084	0.0	Negligible	Imperceptible	Certain	Negligible
11	635B Senja Road	Residential	2	2864	4050	0.0	Negligible	Imperceptible	Certain	Negligible
12	635A Senja Road	Residential	2	2848	4028	0.0	Negligible	Imperceptible	Certain	Negligible
13	635 Senja Road	Residential	2	2839	4015	0.0	Negligible	Imperceptible	Certain	Negligible
14	250A Woodlands Road	Industrial	3	2484	3513	0.0	Negligible	Imperceptible	Certain	Negligible
15	243A Woodlands Road	Industrial	3	2268	3207	0.0	Negligible	Imperceptible	Certain	Negligible
16	3 Jln Gali Batu	Industrial	3	2189	3095	0.0	Negligible	Imperceptible	Certain	Negligible
17	5 Stagmont RIng	Industrial	3	1885	2666	0.0	Negligible	Imperceptible	Certain	Negligible
18	38 Choa Chu Kang Street 64	Residential	2	1413	1999	0.0	Negligible	Imperceptible	Certain	Negligible
19	40 Choa Chu Kang Street 64	Residential	2	1415	2001	0.0	Negligible	Imperceptible	Certain	Negligible
20	36 Choa Chu Kang Street 64	Residential	2	1378	1949	0.0	Negligible	Imperceptible	Certain	Negligible
21	42 Choa Chu Kang Street 64	Residential	2	1368	1935	0.0	Negligible	Imperceptible	Certain	Negligible
22	44 Choa Chu Kang Street 64	Residential	2	1349	1909	0.0	Negligible	Imperceptible	Certain	Negligible
23	46 Choa Chu Kang Street 64	Residential	2	1327	1877	0.0	Negligible	Imperceptible	Certain	Negligible
24	692A Choa Chu Kang Cres	Residential	2	1234	1745	0.0	Negligible	Imperceptible	Certain	Negligible
25	656 Choa Chu Kang Cres	Residential	2	1209	1709	0.0	Negligible	Imperceptible	Certain	Negligible
26	691 Choa Chu Kang Cres	Recreational	3	1172	1657	0.1	Negligible	Imperceptible	Certain	Negligible
27	691A Choa Chu Kang Cres	Residential	2	1134	1604	0.1	Negligible	Imperceptible	Certain	Negligible
28	691B Choa Chu Kang Cres	Residential	2	1086	1537	0.1	Negligible	Imperceptible	Certain	Negligible
29	8 Sungei Kadut Avenue	Industrial	3	1201	1699	0.1	Negligible	Imperceptible	Certain	Negligible
30	690D Choa Chu Kang Cres	Residential	2	1031	1458	0.1	Negligible	Imperceptible	Certain	Negligible
31	690C Choa Chu Kang Cres	Residential	2	981	1388	0.1	Negligible	Imperceptible	Certain	Negligible
32	19 Sungei Kadut Avenue	Industrial	3	1011	1429	0.1	Negligible	Imperceptible	Certain	Negligible
33	14 Sungei Kadut Avenue	Industrial	3	1057	1495	0.1	Negligible	Imperceptible	Certain	Negligible
34	16 Sungei Kadut Avenue	Industrial	3	1027	1452	0.1	Negligible	Imperceptible	Certain	Negligible
35	18 Sungei Kadut Avenue	Industrial	3	979	1385	0.1	Negligible	Imperceptible	Certain	Negligible
36	20 Sungei Kadut Way	Industrial	3	951	1345	0.1	Negligible	Imperceptible	Certain	Negligible
37	2C Mandai Estate	Industrial	3	1016	1437	0.1	Negligible	Imperceptible	Certain	Negligible
38	22 Sungei Kadut Avenue	Industrial	3	890	1258	0.1	Negligible	Imperceptible	Certain	Negligible
39	32 Sungei Kadut Way	Industrial	3	669	947	0.1	Negligible	Imperceptible	Certain	Negligible
40	2B Mandai Estate	Industrial	3	975	1379	0.1	Negligible	Imperceptible	Certain	Negligible

Detailed Ground-borne Vibration Assessment Results

Rock Breaking and Excavation at Sunget Kadut Station
MIC=3.8 kg

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
41	20A Sungei Kadut Way	Industrial	3	566	800	0.2	Negligible	Imperceptible	Certain	Negligible
42	20 Sungei Kadut Way	Industrial	3	546	772	0.2	Negligible	Imperceptible	Certain	Negligible
43	18 Sungei Kadut Way	Industrial	3	528	746	0.2	Negligible	Imperceptible	Certain	Negligible
44	2A Mandai Estate	Industrial	3	943	1334	0.1	Negligible	Imperceptible	Certain	Negligible
45	15 Sungei Kadut Way	Industrial	3	483	683	0.2	Negligible	Imperceptible	Certain	Negligible
46	5 Sungei Kadut Way	Industrial	3	420	594	0.2	Negligible	Imperceptible	Certain	Negligible
47	31 Sungei Kadut Avenue	Industrial	3	588	831	0.1	Negligible	Imperceptible	Certain	Negligible
48	45 Sungei Kadut Avenue	Industrial	3	368	521	0.3	Negligible	Imperceptible	Certain	Negligible
49	33 Sungei Kadut Avenue	Industrial	3	513	726	0.2	Negligible	Imperceptible	Certain	Negligible
50	39 Sungei Kadut Avenue	Industrial	3	389	550	0.3	Negligible	Imperceptible	Certain	Negligible
51	17 Sungei Kadut Way	Industrial	3	410	579	0.3	Negligible	Imperceptible	Certain	Negligible
52	48 Sungei Kadut Avenue	Industrial	3	283	401	0.4	Negligible	Imperceptible	Certain	Negligible
53	46 Sungei Kadut Avenue	Industrial	3	273	387	0.5	Negligible	Imperceptible	Certain	Negligible
54	23H Sungei Kadut Street 1	Industrial	3	230	325	0.6	Negligible	Imperceptible	Certain	Negligible
55	23F Sungei Kadut Street 1	Industrial	3	206	292	0.7	Negligible	Imperceptible	Certain	Negligible
56	21 Sungei Kadut Street 1	Industrial	3	317	448	0.4	Negligible	Imperceptible	Certain	Negligible
57	23A Sungei Kadut Street 1	Industrial	3	266	377	0.5	Negligible	Imperceptible	Certain	Negligible
58	15 Sungei Kadut Street 2	Industrial	3	83	119	2.7	Negligible	Imperceptible	Certain	Negligible
59	15 Sungei Kadut Street 2	Industrial	3	104	148	1.9	Negligible	Imperceptible	Certain	Negligible
60	5 Sungei Kadut Street 2	Industrial	3	59	85	4.5	Negligible	Imperceptible	Certain	Negligible
61	8 Sungei Kadut Street 2	Industrial	3	158	224	1.0	Negligible	Imperceptible	Certain	Negligible
62	18 Sungei Kadut Street 2	Industrial	3	165	234	1.0	Negligible	Imperceptible	Certain	Negligible
63	8 Sungei Kadut Street 2	Industrial	3	172	243	0.9	Negligible	Imperceptible	Certain	Negligible
64	36 Sungei Kadut Street 2	Industrial	3	217	307	0.7	Negligible	Imperceptible	Certain	Negligible
65	38 Sungei Kadut Street 2	Industrial	3	234	332	0.6	Negligible	Imperceptible	Certain	Negligible
66	38 Sungei Kadut Street 2	Industrial	3	328	463	0.4	Negligible	Imperceptible	Certain	Negligible
67	25 Sungei Kadut Street 2	Industrial	3	372	526	0.3	Negligible	Imperceptible	Certain	Negligible
68	31 Sungei Kadut Street 2	Industrial	3	377	533	0.3	Negligible	Imperceptible	Certain	Negligible
69	31 Sungei Kadut Street 2	Industrial	3	398	564	0.3	Negligible	Imperceptible	Certain	Negligible
70	29 Sungei Kadut Street 2	Industrial	3	396	560	0.3	Negligible	Imperceptible	Certain	Negligible
71	29 Sungei Kadut Street 2	Industrial	3	401	567	0.3	Negligible	Imperceptible	Certain	Negligible
72	31 Sungei Kadut Street 2	Industrial	3	429	607	0.2	Negligible	Imperceptible	Certain	Negligible
73	29 Sungei Kadut Street 2	Industrial	3	445	630	0.2	Negligible	Imperceptible	Certain	Negligible
74	31 Sungei Kadut Street 2	Industrial	3	462	654	0.2	Negligible	Imperceptible	Certain	Negligible
75	29 Sungei Kadut Street 2	Industrial	3	449	635	0.2	Negligible	Imperceptible	Certain	Negligible
76	31 Sungei Kadut Street 2	Industrial	3	475	673	0.2	Negligible	Imperceptible	Certain	Negligible
77	7 Sungei Kadut Street 3	Industrial	3	494	699	0.2	Negligible	Imperceptible	Certain	Negligible
78	Beside 3 Sungei Kadut Street 3	Industrial	3	516	729	0.2	Negligible	Imperceptible	Certain	Negligible
79	3 Sungei Kadut Street 3	Industrial	3	492	696	0.2	Negligible	Imperceptible	Certain	Negligible
80	3 Sungei Kadut Street 3	Industrial	3	601	851	0.1	Negligible	Imperceptible	Certain	Negligible

Detailed Ground-borne Vibration Assessment Results

Rock Breaking and Excavation at Sunget Kadut Station
MIC=3.8 kg

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
81	Beside 3 Sungei Kadut Street 3	Industrial	3	596	843	0.1	Negligible	Imperceptible	Certain	Negligible
82	8 Sungei Kadut Street 3	Industrial	3	640	906	0.1	Negligible	Imperceptible	Certain	Negligible
83	10 Sungei Kadut Street 3	Industrial	3	650	919	0.1	Negligible	Imperceptible	Certain	Negligible
84	10 Sungei Kadut Street 3	Industrial	3	646	913	0.1	Negligible	Imperceptible	Certain	Negligible
85	6 Sungei Kadut Street 3	Industrial	3	647	915	0.1	Negligible	Imperceptible	Certain	Negligible
86	25 Sungei Kadut Avenue	Place of Worship	2	801	1134	0.1	Negligible	Imperceptible	Certain	Negligible
87	337 Woodlands Road	Industrial	3	1821	2575	0.0	Negligible	Imperceptible	Certain	Negligible
88	Tennis Court Beside 46 Choa Chu Kang Street 64	Recreational	3	1309	1851	0.0	Negligible	Imperceptible	Certain	Negligible
89	692 Choa Chu Kang Cres	Residential	3	1265	1789	0.0	Negligible	Imperceptible	Certain	Negligible
90	7 Mandai Link	Industrial	3	818	1157	0.1	Negligible	Imperceptible	Certain	Negligible
91	12 Sungei Kadut Avenue	Industrial	3	1115	1577	0.1	Negligible	Imperceptible	Certain	Negligible
92	350 Woodlands Road	Industrial	3	1136	1606	0.1	Negligible	Imperceptible	Certain	Negligible
93	350 Woodlands Road	Industrial	3	1204	1703	0.1	Negligible	Imperceptible	Certain	Negligible
94	350 Woodlands Road	Industrial	3	1201	1698	0.1	Negligible	Imperceptible	Certain	Negligible
95	350 Woodlands Road	Industrial	3	1223	1730	0.0	Negligible	Imperceptible	Certain	Negligible
96	350 Woodlands Road	Industrial	3	1244	1760	0.0	Negligible	Imperceptible	Certain	Negligible
97	350 Woodlands Road	Industrial	3	1445	2044	0.0	Negligible	Imperceptible	Certain	Negligible
98	350 Woodlands Road	Industrial	3	1457	2061	0.0	Negligible	Imperceptible	Certain	Negligible
99	350 Woodlands Road	Industrial	3	1516	2143	0.0	Negligible	Imperceptible	Certain	Negligible
100	350 Woodlands Road	Industrial	3	1455	2058	0.0	Negligible	Imperceptible	Certain	Negligible
101	350 Woodlands Road	Industrial	3	1424	2014	0.0	Negligible	Imperceptible	Certain	Negligible
102	Building between 2A and 2B Mandai Estate	Industrial	3	964	1363	0.1	Negligible	Imperceptible	Certain	Negligible
103	Container Building along Gali Batu Close	Industrial	3	1158	1638	0.1	Negligible	Imperceptible	Certain	Negligible
104	689 Choa Chu Kand Drive	Industrial	3	924	1306	0.1	Negligible	Imperceptible	Certain	Negligible
105	632B Senja Road	Residential	2	3157	4464	0.0	Negligible	Imperceptible	Certain	Negligible
106	633C Senja Road	Residential	2	3122	4415	0.0	Negligible	Imperceptible	Certain	Negligible
107	9 Sungei Kadut Street 3	Industrial	3	502	709	0.2	Negligible	Imperceptible	Certain	Negligible
108	692B Choa Chu Kang Cres	Residential	2	1185	1676	0.1	Negligible	Imperceptible	Certain	Negligible
109	690A Choa Chu Kang Cres	Residential	2	943	1334	0.1	Negligible	Imperceptible	Certain	Negligible
110	32 Choa Chu Kang Street 64	Residential	2	1463	2070	0.0	Negligible	Imperceptible	Certain	Negligible
111	6D Mandai Estate	Industrial	3	1015	1435	0.1	Negligible	Imperceptible	Certain	Negligible
112	90 Mandai Estate	Industrial	3	1084	1533	0.1	Negligible	Imperceptible	Certain	Negligible
113	96 Mandai Estate	Industrial	3	1057	1494	0.1	Negligible	Imperceptible	Certain	Negligible
114	94 Mandai Estate	Industrial	3	1066	1508	0.1	Negligible	Imperceptible	Certain	Negligible
115	92 Mandai Estate	Industrial	3	1076	1521	0.1	Negligible	Imperceptible	Certain	Negligible
116	88 Mandai Estate	Industrial	3	1094	1547	0.1	Negligible	Imperceptible	Certain	Negligible

Detailed Ground-borne Vibration Assessment Results

Rock Breaking and Excavation at Sunget Kadut Station
MIC=3.8 kg

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
117	633D Senja Road	Residential	2	3151	4456	0.0	Negligible	Imperceptible	Certain	Negligible
118	West View Primary School	Educational Institution	2	3226	4562	0.0	Negligible	Imperceptible	Certain	Negligible
119	180 Woodlands Road	Commercial	3	2605	3685	0.0	Negligible	Imperceptible	Certain	Negligible
120	663 Choa Chu Kang Cres	Residential	2	1030	1456	0.1	Negligible	Imperceptible	Certain	Negligible
121	662 Choa Chu Kang Cres	Residential	2	1085	1535	0.1	Negligible	Imperceptible	Certain	Negligible
122	668A Choa Chu Kang Cres	Residential	3	1059	1497	0.1	Negligible	Imperceptible	Certain	Negligible
123	664 Choa Chu Kang Cres	Residential	2	992	1403	0.1	Negligible	Imperceptible	Certain	Negligible
124	661 Choa Chu Kang Cres	Residential	2	1133	1602	0.1	Negligible	Imperceptible	Certain	Negligible
125	656 Choa Chu Kang Cres	Residential	3	1142	1615	0.1	Negligible	Imperceptible	Certain	Negligible
126	Beside 3 Sungei Kadut Street 3	Industrial	3	521	736	0.2	Negligible	Imperceptible	Certain	Negligible
127	4 Sungei Kadut Street 3	Industrial	3	657	930	0.1	Negligible	Imperceptible	Certain	Negligible
128	4 Sungei Kadut Street 3	Industrial	3	687	971	0.1	Negligible	Imperceptible	Certain	Negligible
129	4 Sungei Kadut Street 3	Industrial	3	663	938	0.1	Negligible	Imperceptible	Certain	Negligible
130	31 Sungei Kadut Street 2	Industrial	3	487	689	0.2	Negligible	Imperceptible	Certain	Negligible
131	38 Sungei Kadut Street 2	Industrial	3	276	391	0.5	Negligible	Imperceptible	Certain	Negligible
132	6 Sungei Kadut Street 2	Industrial	3	208	294	0.7	Negligible	Imperceptible	Certain	Negligible
133	6 Sungei Kadut Street 2	Industrial	3	189	267	0.8	Negligible	Imperceptible	Certain	Negligible
134	27 Sungei Kadut Street 1	Industrial	3	165	233	1.0	Negligible	Imperceptible	Certain	Negligible
135	27 Sungei Kadut Street 1	Industrial	3	157	223	1.1	Negligible	Imperceptible	Certain	Negligible
136	27 Sungei Kadut Street 1	Industrial	3	161	228	1.0	Negligible	Imperceptible	Certain	Negligible
137	27 Sungei Kadut Street 1	Industrial	3	192	272	0.8	Negligible	Imperceptible	Certain	Negligible
138	27 Sungei Kadut Street 1	Industrial	3	202	285	0.7	Negligible	Imperceptible	Certain	Negligible
139	27 Sungei Kadut Street 1	Industrial	3	261	370	0.5	Negligible	Imperceptible	Certain	Negligible
140	25 Sungei Kadut Street 1	Industrial	3	267	378	0.5	Negligible	Imperceptible	Certain	Negligible
141	Beside 25A Sungei Kadut Street 1	Industrial	3	207	293	0.7	Negligible	Imperceptible	Certain	Negligible
142	23 Sungei Kadut Street 1	Industrial	3	282	400	0.4	Negligible	Imperceptible	Certain	Negligible
143	36 Sungei Kadut Street 1	Industrial	3	396	560	0.3	Negligible	Imperceptible	Certain	Negligible
144	Beside 34 Sungei Kadut Street 1	Industrial	3	426	602	0.2	Negligible	Imperceptible	Certain	Negligible
145	6A Mandai Estate	Industrial	3	982	1388	0.1	Negligible	Imperceptible	Certain	Negligible
146	566 Woodlands Road	Commercial	3	913	1292	0.1	Negligible	Imperceptible	Certain	Negligible
147	350 Woodlands Road	Industrial	3	1560	2206	0.0	Negligible	Imperceptible	Certain	Negligible

Detailed Ground-borne Vibration Assessment Results

Rock Breaking and Excavation at Sunget Kadut Station
MIC=0.8 kg

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
1	21A Woodlands Road	Industrial	3	3154	4461	0.0	Negligible	Imperceptible	Certain	Negligible
2	632 Senja Road	Residential	2	3091	4372	0.0	Negligible	Imperceptible	Certain	Negligible
3	633 Senja Road	Residential	2	3095	4377	0.0	Negligible	Imperceptible	Certain	Negligible
4	633B Senja Road	Residential	2	3055	4321	0.0	Negligible	Imperceptible	Certain	Negligible
5	632A Senja Road	Residential	2	3008	4255	0.0	Negligible	Imperceptible	Certain	Negligible
6	633A Senja Road	Residential	2	3009	4255	0.0	Negligible	Imperceptible	Certain	Negligible
7	634C Senja Road	Residential	3	2990	4229	0.0	Negligible	Imperceptible	Certain	Negligible
8	634A Senja Road	Residential	2	2952	4174	0.0	Negligible	Imperceptible	Certain	Negligible
9	634B Senja Road	Residential	2	2948	4170	0.0	Negligible	Imperceptible	Certain	Negligible
10	634 Senja Road	Residential	2	2888	4084	0.0	Negligible	Imperceptible	Certain	Negligible
11	635B Senja Road	Residential	2	2864	4050	0.0	Negligible	Imperceptible	Certain	Negligible
12	635A Senja Road	Residential	2	2848	4028	0.0	Negligible	Imperceptible	Certain	Negligible
13	635 Senja Road	Residential	2	2839	4015	0.0	Negligible	Imperceptible	Certain	Negligible
14	250A Woodlands Road	Industrial	3	2484	3513	0.0	Negligible	Imperceptible	Certain	Negligible
15	243A Woodlands Road	Industrial	3	2268	3207	0.0	Negligible	Imperceptible	Certain	Negligible
16	3 Jln Gali Batu	Industrial	3	2189	3095	0.0	Negligible	Imperceptible	Certain	Negligible
17	5 Stagmont RIng	Industrial	3	1885	2666	0.0	Negligible	Imperceptible	Certain	Negligible
18	38 Choa Chu Kang Street 64	Residential	2	1413	1999	0.0	Negligible	Imperceptible	Certain	Negligible
19	40 Choa Chu Kang Street 64	Residential	2	1415	2001	0.0	Negligible	Imperceptible	Certain	Negligible
20	36 Choa Chu Kang Street 64	Residential	2	1378	1949	0.0	Negligible	Imperceptible	Certain	Negligible
21	42 Choa Chu Kang Street 64	Residential	2	1368	1935	0.0	Negligible	Imperceptible	Certain	Negligible
22	44 Choa Chu Kang Street 64	Residential	2	1349	1909	0.0	Negligible	Imperceptible	Certain	Negligible
23	46 Choa Chu Kang Street 64	Residential	2	1327	1877	0.0	Negligible	Imperceptible	Certain	Negligible
24	692A Choa Chu Kang Cres	Residential	2	1234	1745	0.0	Negligible	Imperceptible	Certain	Negligible
25	656 Choa Chu Kang Cres	Residential	2	1209	1709	0.0	Negligible	Imperceptible	Certain	Negligible
26	691 Choa Chu Kang Cres	Recreational	3	1172	1657	0.0	Negligible	Imperceptible	Certain	Negligible
27	691A Choa Chu Kang Cres	Residential	2	1134	1604	0.0	Negligible	Imperceptible	Certain	Negligible
28	691B Choa Chu Kang Cres	Residential	2	1086	1537	0.0	Negligible	Imperceptible	Certain	Negligible
29	8 Sungei Kadut Avenue	Industrial	3	1201	1699	0.0	Negligible	Imperceptible	Certain	Negligible
30	690D Choa Chu Kang Cres	Residential	2	1031	1458	0.0	Negligible	Imperceptible	Certain	Negligible
31	690C Choa Chu Kang Cres	Residential	2	981	1388	0.0	Negligible	Imperceptible	Certain	Negligible
32	19 Sungei Kadut Avenue	Industrial	3	1011	1429	0.0	Negligible	Imperceptible	Certain	Negligible
33	14 Sungei Kadut Avenue	Industrial	3	1057	1495	0.0	Negligible	Imperceptible	Certain	Negligible
34	16 Sungei Kadut Avenue	Industrial	3	1027	1452	0.0	Negligible	Imperceptible	Certain	Negligible
35	18 Sungei Kadut Avenue	Industrial	3	979	1385	0.0	Negligible	Imperceptible	Certain	Negligible
36	20 Sungei Kadut Way	Industrial	3	951	1345	0.0	Negligible	Imperceptible	Certain	Negligible
37	2C Mandai Estate	Industrial	3	1016	1437	0.0	Negligible	Imperceptible	Certain	Negligible
38	22 Sungei Kadut Avenue	Industrial	3	890	1258	0.0	Negligible	Imperceptible	Certain	Negligible
39	32 Sungei Kadut Way	Industrial	3	669	947	0.0	Negligible	Imperceptible	Certain	Negligible
40	2B Mandai Estate	Industrial	3	975	1379	0.0	Negligible	Imperceptible	Certain	Negligible
41	20A Sungei Kadut Way	Industrial	3	566	800	0.0	Negligible	Imperceptible	Certain	Negligible

Detailed Ground-borne Vibration Assessment Results

Rock Breaking and Excavation at Sunget Kadut Station
MIC=0.8 kg

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
42	20 Sungei Kadut Way	Industrial	3	546	772	0.1	Negligible	Imperceptible	Certain	Negligible
43	18 Sungei Kadut Way	Industrial	3	528	746	0.1	Negligible	Imperceptible	Certain	Negligible
44	2A Mandai Estate	Industrial	3	943	1334	0.0	Negligible	Imperceptible	Certain	Negligible
45	15 Sungei Kadut Way	Industrial	3	483	683	0.1	Negligible	Imperceptible	Certain	Negligible
46	5 Sungei Kadut Way	Industrial	3	420	594	0.1	Negligible	Imperceptible	Certain	Negligible
47	31 Sungei Kadut Avenue	Industrial	3	588	831	0.0	Negligible	Imperceptible	Certain	Negligible
48	45 Sungei Kadut Avenue	Industrial	3	368	521	0.1	Negligible	Imperceptible	Certain	Negligible
49	33 Sungei Kadut Avenue	Industrial	3	513	726	0.1	Negligible	Imperceptible	Certain	Negligible
50	39 Sungei Kadut Avenue	Industrial	3	389	550	0.1	Negligible	Imperceptible	Certain	Negligible
51	17 Sungei Kadut Way	Industrial	3	410	579	0.1	Negligible	Imperceptible	Certain	Negligible
52	48 Sungei Kadut Avenue	Industrial	3	283	401	0.1	Negligible	Imperceptible	Certain	Negligible
53	46 Sungei Kadut Avenue	Industrial	3	273	387	0.1	Negligible	Imperceptible	Certain	Negligible
54	23H Sungei Kadut Street 1	Industrial	3	230	325	0.2	Negligible	Imperceptible	Certain	Negligible
55	23F Sungei Kadut Street 1	Industrial	3	206	292	0.2	Negligible	Imperceptible	Certain	Negligible
56	21 Sungei Kadut Street 1	Industrial	3	317	448	0.1	Negligible	Imperceptible	Certain	Negligible
57	23A Sungei Kadut Street 1	Industrial	3	266	377	0.1	Negligible	Imperceptible	Certain	Negligible
58	15 Sungei Kadut Street 2	Industrial	3	83	119	0.8	Negligible	Imperceptible	Certain	Negligible
59	15 Sungei Kadut Street 2	Industrial	3	104	148	0.6	Negligible	Imperceptible	Certain	Negligible
60	5 Sungei Kadut Street 2	Industrial	3	59	85	1.4	Negligible	Imperceptible	Certain	Negligible
61	8 Sungei Kadut Street 2	Industrial	3	158	224	0.3	Negligible	Imperceptible	Certain	Negligible
62	18 Sungei Kadut Street 2	Industrial	3	165	234	0.3	Negligible	Imperceptible	Certain	Negligible
63	8 Sungei Kadut Street 2	Industrial	3	172	243	0.3	Negligible	Imperceptible	Certain	Negligible
64	36 Sungei Kadut Street 2	Industrial	3	217	307	0.2	Negligible	Imperceptible	Certain	Negligible
65	38 Sungei Kadut Street 2	Industrial	3	234	332	0.2	Negligible	Imperceptible	Certain	Negligible
66	38 Sungei Kadut Street 2	Industrial	3	328	463	0.1	Negligible	Imperceptible	Certain	Negligible
67	25 Sungei Kadut Street 2	Industrial	3	372	526	0.1	Negligible	Imperceptible	Certain	Negligible
68	31 Sungei Kadut Street 2	Industrial	3	377	533	0.1	Negligible	Imperceptible	Certain	Negligible
69	31 Sungei Kadut Street 2	Industrial	3	398	564	0.1	Negligible	Imperceptible	Certain	Negligible
70	29 Sungei Kadut Street 2	Industrial	3	396	560	0.1	Negligible	Imperceptible	Certain	Negligible
71	29 Sungei Kadut Street 2	Industrial	3	401	567	0.1	Negligible	Imperceptible	Certain	Negligible
72	31 Sungei Kadut Street 2	Industrial	3	429	607	0.1	Negligible	Imperceptible	Certain	Negligible
73	29 Sungei Kadut Street 2	Industrial	3	445	630	0.1	Negligible	Imperceptible	Certain	Negligible
74	31 Sungei Kadut Street 2	Industrial	3	462	654	0.1	Negligible	Imperceptible	Certain	Negligible
75	29 Sungei Kadut Street 2	Industrial	3	449	635	0.1	Negligible	Imperceptible	Certain	Negligible
76	31 Sungei Kadut Street 2	Industrial	3	475	673	0.1	Negligible	Imperceptible	Certain	Negligible
77	7 Sungei Kadut Street 3	Industrial	3	494	699	0.1	Negligible	Imperceptible	Certain	Negligible
78	Beside 3 Sungei Kadut Street 3	Industrial	3	516	729	0.1	Negligible	Imperceptible	Certain	Negligible
79	3 Sungei Kadut Street 3	Industrial	3	492	696	0.1	Negligible	Imperceptible	Certain	Negligible
80	3 Sungei Kadut Street 3	Industrial	3	601	851	0.0	Negligible	Imperceptible	Certain	Negligible
81	Beside 3 Sungei Kadut Street 3	Industrial	3	596	843	0.0	Negligible	Imperceptible	Certain	Negligible
82	8 Sungei Kadut Street 3	Industrial	3	640	906	0.0	Negligible	Imperceptible	Certain	Negligible

Detailed Ground-borne Vibration Assessment Results

Rock Breaking and Excavation at Sunget Kadut Station
MIC=0.8 kg

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
83	10 Sungei Kadut Street 3	Industrial	3	650	919	0.0	Negligible	Imperceptible	Certain	Negligible
84	10 Sungei Kadut Street 3	Industrial	3	646	913	0.0	Negligible	Imperceptible	Certain	Negligible
85	6 Sungei Kadut Street 3	Industrial	3	647	915	0.0	Negligible	Imperceptible	Certain	Negligible
86	25 Sungei Kadut Avenue	Place of Worship	2	801	1134	0.0	Negligible	Imperceptible	Certain	Negligible
87	337 Woodlands Road	Industrial	3	1821	2575	0.0	Negligible	Imperceptible	Certain	Negligible
88	Tennis Court Beside 46 Choa Chu Kang Street 64	Recreational	3	1309	1851	0.0	Negligible	Imperceptible	Certain	Negligible
89	692 Choa Chu Kang Cres	Residential	3	1265	1789	0.0	Negligible	Imperceptible	Certain	Negligible
90	7 Mandai Link	Industrial	3	818	1157	0.0	Negligible	Imperceptible	Certain	Negligible
91	12 Sungei Kadut Avenue	Industrial	3	1115	1577	0.0	Negligible	Imperceptible	Certain	Negligible
92	350 Woodlands Road	Industrial	3	1136	1606	0.0	Negligible	Imperceptible	Certain	Negligible
93	350 Woodlands Road	Industrial	3	1204	1703	0.0	Negligible	Imperceptible	Certain	Negligible
94	350 Woodlands Road	Industrial	3	1201	1698	0.0	Negligible	Imperceptible	Certain	Negligible
95	350 Woodlands Road	Industrial	3	1223	1730	0.0	Negligible	Imperceptible	Certain	Negligible
96	350 Woodlands Road	Industrial	3	1244	1760	0.0	Negligible	Imperceptible	Certain	Negligible
97	350 Woodlands Road	Industrial	3	1445	2044	0.0	Negligible	Imperceptible	Certain	Negligible
98	350 Woodlands Road	Industrial	3	1457	2061	0.0	Negligible	Imperceptible	Certain	Negligible
99	350 Woodlands Road	Industrial	3	1516	2143	0.0	Negligible	Imperceptible	Certain	Negligible
100	350 Woodlands Road	Industrial	3	1455	2058	0.0	Negligible	Imperceptible	Certain	Negligible
101	350 Woodlands Road	Industrial	3	1424	2014	0.0	Negligible	Imperceptible	Certain	Negligible
102	Building between 2A and 2B Mandai Estate	Industrial	3	964	1363	0.0	Negligible	Imperceptible	Certain	Negligible
103	Container Building along Gali Batu Close	Industrial	3	1158	1638	0.0	Negligible	Imperceptible	Certain	Negligible
104	689 Choa Chu Kand Drive	Industrial	3	924	1306	0.0	Negligible	Imperceptible	Certain	Negligible
105	632B Senja Road	Residential	2	3157	4464	0.0	Negligible	Imperceptible	Certain	Negligible
106	633C Senja Road	Residential	2	3122	4415	0.0	Negligible	Imperceptible	Certain	Negligible
107	9 Sungei Kadut Street 3	Industrial	3	502	709	0.1	Negligible	Imperceptible	Certain	Negligible
108	692B Choa Chu Kang Cres	Residential	2	1185	1676	0.0	Negligible	Imperceptible	Certain	Negligible
109	690A Choa Chu Kang Cres	Residential	2	943	1334	0.0	Negligible	Imperceptible	Certain	Negligible
110	32 Choa Chu Kang Street 64	Residential	2	1463	2070	0.0	Negligible	Imperceptible	Certain	Negligible
111	6D Mandai Estate	Industrial	3	1015	1435	0.0	Negligible	Imperceptible	Certain	Negligible
112	90 Mandai Estate	Industrial	3	1084	1533	0.0	Negligible	Imperceptible	Certain	Negligible
113	96 Mandai Estate	Industrial	3	1057	1494	0.0	Negligible	Imperceptible	Certain	Negligible
114	94 Mandai Estate	Industrial	3	1066	1508	0.0	Negligible	Imperceptible	Certain	Negligible
115	92 Mandai Estate	Industrial	3	1076	1521	0.0	Negligible	Imperceptible	Certain	Negligible
116	88 Mandai Estate	Industrial	3	1094	1547	0.0	Negligible	Imperceptible	Certain	Negligible
117	633D Senja Road	Residential	2	3151	4456	0.0	Negligible	Imperceptible	Certain	Negligible
118	West View Primary School	Educational Institution	2	3226	4562	0.0	Negligible	Imperceptible	Certain	Negligible

Detailed Ground-borne Vibration Assessment Results

Rock Breaking and Excavation at Sunget Kadut Station
MIC=0.8 kg

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
119	180 Woodlands Road	Commercial	3	2605	3685	0.0	Negligible	Imperceptible	Certain	Negligible
120	663 Choa Chu Kang Cres	Residential	2	1030	1456	0.0	Negligible	Imperceptible	Certain	Negligible
121	662 Choa Chu Kang Cres	Residential	2	1085	1535	0.0	Negligible	Imperceptible	Certain	Negligible
122	668A Choa Chu Kang Cres	Residential	3	1059	1497	0.0	Negligible	Imperceptible	Certain	Negligible
123	664 Choa Chu Kang Cres	Residential	2	992	1403	0.0	Negligible	Imperceptible	Certain	Negligible
124	661 Choa Chu Kang Cres	Residential	2	1133	1602	0.0	Negligible	Imperceptible	Certain	Negligible
125	656 Choa Chu Kang Cres	Residential	3	1142	1615	0.0	Negligible	Imperceptible	Certain	Negligible
126	Beside 3 Sungei Kadut Street 3	Industrial	3	521	736	0.1	Negligible	Imperceptible	Certain	Negligible
127	4 Sungei Kadut Street 3	Industrial	3	657	930	0.0	Negligible	Imperceptible	Certain	Negligible
128	4 Sungei Kadut Street 3	Industrial	3	687	971	0.0	Negligible	Imperceptible	Certain	Negligible
129	4 Sungei Kadut Street 3	Industrial	3	663	938	0.0	Negligible	Imperceptible	Certain	Negligible
130	31 Sungei Kadut Street 2	Industrial	3	487	689	0.1	Negligible	Imperceptible	Certain	Negligible
131	38 Sungei Kadut Street 2	Industrial	3	276	391	0.1	Negligible	Imperceptible	Certain	Negligible
132	6 Sungei Kadut Street 2	Industrial	3	208	294	0.2	Negligible	Imperceptible	Certain	Negligible
133	6 Sungei Kadut Street 2	Industrial	3	189	267	0.2	Negligible	Imperceptible	Certain	Negligible
134	27 Sungei Kadut Street 1	Industrial	3	165	233	0.3	Negligible	Imperceptible	Certain	Negligible
135	27 Sungei Kadut Street 1	Industrial	3	157	223	0.3	Negligible	Imperceptible	Certain	Negligible
136	27 Sungei Kadut Street 1	Industrial	3	161	228	0.3	Negligible	Imperceptible	Certain	Negligible
137	27 Sungei Kadut Street 1	Industrial	3	192	272	0.2	Negligible	Imperceptible	Certain	Negligible
138	27 Sungei Kadut Street 1	Industrial	3	202	285	0.2	Negligible	Imperceptible	Certain	Negligible
139	27 Sungei Kadut Street 1	Industrial	3	261	370	0.2	Negligible	Imperceptible	Certain	Negligible
140	25 Sungei Kadut Street 1	Industrial	3	267	378	0.1	Negligible	Imperceptible	Certain	Negligible
141	Beside 25A Sungei Kadut Street 1	Industrial	3	207	293	0.2	Negligible	Imperceptible	Certain	Negligible
142	23 Sungei Kadut Street 1	Industrial	3	282	400	0.1	Negligible	Imperceptible	Certain	Negligible
143	36 Sungei Kadut Street 1	Industrial	3	396	560	0.1	Negligible	Imperceptible	Certain	Negligible
144	Beside 34 Sungei Kadut Street 1	Industrial	3	426	602	0.1	Negligible	Imperceptible	Certain	Negligible
145	6A Mandai Estate	Industrial	3	982	1388	0.0	Negligible	Imperceptible	Certain	Negligible
146	566 Woodlands Road	Commercial	3	913	1292	0.0	Negligible	Imperceptible	Certain	Negligible
147	350 Woodlands Road	Industrial	3	1560	2206	0.0	Negligible	Imperceptible	Certain	Negligible

Detailed Ground-borne Vibration Assessment Results

Rotary Bore Piling

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
1	21A Woodlands Road	Industrial	3	1591	2250	0.0	Negligible	Imperceptible	Possible	Negligible
2	632 Senja Road	Residential	2	1522	2153	0.0	Negligible	Imperceptible	Possible	Negligible
3	633 Senja Road	Residential	2	1525	2157	0.0	Negligible	Imperceptible	Possible	Negligible
4	633B Senja Road	Residential	2	1487	2103	0.0	Negligible	Imperceptible	Possible	Negligible
5	632A Senja Road	Residential	2	1444	2041	0.0	Negligible	Imperceptible	Possible	Negligible
6	633A Senja Road	Residential	2	1442	2039	0.0	Negligible	Imperceptible	Possible	Negligible
7	634C Senja Road	Residential	3	1424	2013	0.0	Negligible	Imperceptible	Possible	Negligible
8	634A Senja Road	Residential	2	1388	1963	0.0	Negligible	Imperceptible	Possible	Negligible
9	634B Senja Road	Residential	2	1380	1951	0.0	Negligible	Imperceptible	Possible	Negligible
10	634 Senja Road	Residential	2	1324	1872	0.0	Negligible	Imperceptible	Possible	Negligible
11	635B Senja Road	Residential	2	1298	1835	0.0	Negligible	Imperceptible	Possible	Negligible
12	635A Senja Road	Residential	2	1285	1818	0.0	Negligible	Imperceptible	Possible	Negligible
13	635 Senja Road	Residential	2	1273	1801	0.0	Negligible	Imperceptible	Possible	Negligible
14	250A Woodlands Road	Industrial	3	945	1336	0.0	Negligible	Imperceptible	Possible	Negligible
15	243A Woodlands Road	Industrial	3	757	1071	0.0	Negligible	Imperceptible	Possible	Negligible
16	3 Jln Gali Batu	Industrial	3	643	910	0.0	Negligible	Imperceptible	Possible	Negligible
17	5 Stagmont RIng	Industrial	3	394	557	0.0	Negligible	Imperceptible	Possible	Negligible
18	38 Choa Chu Kang Street 64	Residential	2	68	97	0.0	Negligible	Imperceptible	Possible	Negligible
19	40 Choa Chu Kang Street 64	Residential	2	39	55	0.1	Negligible	Imperceptible	Possible	Negligible
20	36 Choa Chu Kang Street 64	Residential	2	81	114	0.0	Negligible	Imperceptible	Possible	Negligible
21	42 Choa Chu Kang Street 64	Residential	2	15	22	0.4	Low	Very Low	Possible	Minor
22	44 Choa Chu Kang Street 64	Residential	2	26	36	0.1	Negligible	Imperceptible	Possible	Negligible
23	46 Choa Chu Kang Street 64	Residential	2	36	51	0.1	Negligible	Imperceptible	Possible	Negligible
24	692A Choa Chu Kang Cres	Residential	2	53	75	0.0	Negligible	Imperceptible	Possible	Negligible
25	656 Choa Chu Kang Cres	Residential	2	81	114	0.0	Negligible	Imperceptible	Possible	Negligible
26	691 Choa Chu Kang Cres	Recreational	3	41	58	0.0	Negligible	Imperceptible	Possible	Negligible
27	691A Choa Chu Kang Cres	Residential	2	20	28	0.2	Negligible	Imperceptible	Possible	Negligible
28	691B Choa Chu Kang Cres	Residential	2	1	2	0.9	Low	Very Low	Possible	Minor
29	8 Sungei Kadut Avenue	Industrial	3	81	114	0.0	Negligible	Imperceptible	Possible	Negligible
30	690D Choa Chu Kang Cres	Residential	2	2	4	0.9	Low	Very Low	Possible	Minor
31	690C Choa Chu Kang Cres	Residential	2	61	87	0.0	Negligible	Imperceptible	Possible	Negligible
32	19 Sungei Kadut Avenue	Industrial	3	177	250	0.0	Negligible	Imperceptible	Possible	Negligible
33	14 Sungei Kadut Avenue	Industrial	3	206	291	0.0	Negligible	Imperceptible	Possible	Negligible
34	16 Sungei Kadut Avenue	Industrial	3	157	222	0.0	Negligible	Imperceptible	Possible	Negligible
35	18 Sungei Kadut Avenue	Industrial	3	121	172	0.0	Negligible	Imperceptible	Possible	Negligible
36	20 Sungei Kadut Way	Industrial	3	96	135	0.0	Negligible	Imperceptible	Possible	Negligible
37	2C Mandai Estate	Industrial	3	11	16	0.7	Negligible	Imperceptible	Possible	Negligible
38	22 Sungei Kadut Avenue	Industrial	3	53	74	0.0	Negligible	Imperceptible	Possible	Negligible
39	32 Sungei Kadut Way	Industrial	3	220	311	0.0	Negligible	Imperceptible	Possible	Negligible
40	2B Mandai Estate	Industrial	3	1	1	0.9	Negligible	Imperceptible	Possible	Negligible
41	20A Sungei Kadut Way	Industrial	3	216	305	0.0	Negligible	Imperceptible	Possible	Negligible

Detailed Ground-borne Vibration Assessment Results

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
42	20 Sungei Kadut Way	Industrial	3	209	296	0.0	Negligible	Imperceptible	Possible	Negligible
43	18 Sungei Kadut Way	Industrial	3	210	297	0.0	Negligible	Imperceptible	Possible	Negligible
44	2A Mandai Estate	Industrial	3	5	8	0.9	Negligible	Imperceptible	Possible	Negligible
45	15 Sungei Kadut Way	Industrial	3	86	122	0.0	Negligible	Imperceptible	Possible	Negligible
46	5 Sungei Kadut Way	Industrial	3	130	184	0.0	Negligible	Imperceptible	Possible	Negligible
47	31 Sungei Kadut Avenue	Industrial	3	28	40	0.1	Negligible	Imperceptible	Possible	Negligible
48	45 Sungei Kadut Avenue	Industrial	3	103	146	0.0	Negligible	Imperceptible	Possible	Negligible
49	33 Sungei Kadut Avenue	Industrial	3	27	38	0.1	Negligible	Imperceptible	Possible	Negligible
50	39 Sungei Kadut Avenue	Industrial	3	23	33	0.2	Negligible	Imperceptible	Possible	Negligible
51	17 Sungei Kadut Way	Industrial	3	20	28	0.2	Negligible	Imperceptible	Possible	Negligible
52	48 Sungei Kadut Avenue	Industrial	3	66	93	0.0	Negligible	Imperceptible	Possible	Negligible
53	46 Sungei Kadut Avenue	Industrial	3	34	49	0.1	Negligible	Imperceptible	Possible	Negligible
54	23H Sungei Kadut Street 1	Industrial	3	44	62	0.0	Negligible	Imperceptible	Possible	Negligible
55	23F Sungei Kadut Street 1	Industrial	3	9	13	0.9	Negligible	Imperceptible	Possible	Negligible
56	21 Sungei Kadut Street 1	Industrial	3	68	96	0.0	Negligible	Imperceptible	Possible	Negligible
57	23A Sungei Kadut Street 1	Industrial	3	29	40	0.1	Negligible	Imperceptible	Possible	Negligible
58	15 Sungei Kadut Street 2	Industrial	3	28	40	0.1	Negligible	Imperceptible	Possible	Negligible
59	15 Sungei Kadut Street 2	Industrial	3	27	38	0.1	Negligible	Imperceptible	Possible	Negligible
60	5 Sungei Kadut Street 2	Industrial	3	9	13	0.9	Negligible	Imperceptible	Possible	Negligible
61	8 Sungei Kadut Street 2	Industrial	3	10	14	0.9	Negligible	Imperceptible	Possible	Negligible
62	18 Sungei Kadut Street 2	Industrial	3	12	17	0.6	Negligible	Imperceptible	Possible	Negligible
63	8 Sungei Kadut Street 2	Industrial	3	7	9	0.9	Negligible	Imperceptible	Possible	Negligible
64	36 Sungei Kadut Street 2	Industrial	3	1	2	0.9	Negligible	Imperceptible	Possible	Negligible
65	38 Sungei Kadut Street 2	Industrial	3	3	4	0.9	Negligible	Imperceptible	Possible	Negligible
66	38 Sungei Kadut Street 2	Industrial	3	26	37	0.1	Negligible	Imperceptible	Possible	Negligible
67	25 Sungei Kadut Street 2	Industrial	3	7	10	0.9	Negligible	Imperceptible	Possible	Negligible
68	31 Sungei Kadut Street 2	Industrial	3	46	66	0.0	Negligible	Imperceptible	Possible	Negligible
69	31 Sungei Kadut Street 2	Industrial	3	64	90	0.0	Negligible	Imperceptible	Possible	Negligible
70	29 Sungei Kadut Street 2	Industrial	3	8	12	0.9	Negligible	Imperceptible	Possible	Negligible
71	29 Sungei Kadut Street 2	Industrial	3	37	52	0.1	Negligible	Imperceptible	Possible	Negligible
72	31 Sungei Kadut Street 2	Industrial	3	55	77	0.0	Negligible	Imperceptible	Possible	Negligible
73	29 Sungei Kadut Street 2	Industrial	3	2	4	0.9	Negligible	Imperceptible	Possible	Negligible
74	31 Sungei Kadut Street 2	Industrial	3	45	63	0.0	Negligible	Imperceptible	Possible	Negligible
75	29 Sungei Kadut Street 2	Industrial	3	8	11	0.9	Negligible	Imperceptible	Possible	Negligible
76	31 Sungei Kadut Street 2	Industrial	3	38	54	0.1	Negligible	Imperceptible	Possible	Negligible
77	7 Sungei Kadut Street 3	Industrial	3	47	67	0.0	Negligible	Imperceptible	Possible	Negligible
78	Beside 3 Sungei Kadut Street 3	Industrial	3	45	64	0.0	Negligible	Imperceptible	Possible	Negligible
79	3 Sungei Kadut Street 3	Industrial	3	4	6	0.9	Negligible	Imperceptible	Possible	Negligible
80	3 Sungei Kadut Street 3	Industrial	3	6	8	0.9	Negligible	Imperceptible	Possible	Negligible
81	Beside 3 Sungei Kadut Street 3	Industrial	3	44	62	0.0	Negligible	Imperceptible	Possible	Negligible
82	8 Sungei Kadut Street 3	Industrial	3	30	43	0.1	Negligible	Imperceptible	Possible	Negligible

Detailed Ground-borne Vibration Assessment Results

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
83	10 Sungei Kadut Street 3	Industrial	3	68	96	0.0	Negligible	Imperceptible	Possible	Negligible
84	10 Sungei Kadut Street 3	Industrial	3	46	64	0.0	Negligible	Imperceptible	Possible	Negligible
85	6 Sungei Kadut Street 3	Industrial	3	36	52	0.1	Negligible	Imperceptible	Possible	Negligible
86	25 Sungei Kadut Avenue	Place of Worship	2	127	180	0.0	Negligible	Imperceptible	Possible	Negligible
87	337 Woodlands Road	Industrial	3	317	448	0.0	Negligible	Imperceptible	Possible	Negligible
88	Tennis Court Beside 46 Choa Chu Kang Street 64	Recreational	3	67	95	0.0	Negligible	Imperceptible	Possible	Negligible
89	692 Choa Chu Kang Cres	Residential	3	6	8	0.9	Negligible	Imperceptible	Possible	Negligible
90	7 Mandai Link	Industrial	3	62	88	0.0	Negligible	Imperceptible	Possible	Negligible
91	12 Sungei Kadut Avenue	Industrial	3	113	160	0.0	Negligible	Imperceptible	Possible	Negligible
92	350 Woodlands Road	Industrial	3	128	181	0.0	Negligible	Imperceptible	Possible	Negligible
93	350 Woodlands Road	Industrial	3	191	269	0.0	Negligible	Imperceptible	Possible	Negligible
94	350 Woodlands Road	Industrial	3	217	308	0.0	Negligible	Imperceptible	Possible	Negligible
95	350 Woodlands Road	Industrial	3	251	355	0.0	Negligible	Imperceptible	Possible	Negligible
96	350 Woodlands Road	Industrial	3	255	360	0.0	Negligible	Imperceptible	Possible	Negligible
97	350 Woodlands Road	Industrial	3	181	256	0.0	Negligible	Imperceptible	Possible	Negligible
98	350 Woodlands Road	Industrial	3	140	198	0.0	Negligible	Imperceptible	Possible	Negligible
99	350 Woodlands Road	Industrial	3	140	199	0.0	Negligible	Imperceptible	Possible	Negligible
100	350 Woodlands Road	Industrial	3	156	221	0.0	Negligible	Imperceptible	Possible	Negligible
101	350 Woodlands Road	Industrial	3	60	85	0.0	Negligible	Imperceptible	Possible	Negligible
102	Building between 2A and 2B Mandai Estate	Industrial	3	8	11	0.9	Negligible	Imperceptible	Possible	Negligible
103	Container Building along Gali Batu Close	Industrial	3	120	169	0.0	Negligible	Imperceptible	Possible	Negligible
104	689 Choa Chu Kand Drive	Industrial	3	9	13	0.9	Negligible	Imperceptible	Possible	Negligible
105	632B Senja Road	Residential	2	1587	2244	0.0	Negligible	Imperceptible	Possible	Negligible
106	633C Senja Road	Residential	2	1551	2194	0.0	Negligible	Imperceptible	Possible	Negligible
107	9 Sungei Kadut Street 3	Industrial	3	93	131	0.0	Negligible	Imperceptible	Possible	Negligible
108	692B Choa Chu Kang Cres	Residential	2	50	71	0.0	Negligible	Imperceptible	Possible	Negligible
109	690A Choa Chu Kang Cres	Residential	2	84	119	0.0	Negligible	Imperceptible	Possible	Negligible
110	32 Choa Chu Kang Street 64	Residential	2	93	131	0.0	Negligible	Imperceptible	Possible	Negligible
111	6D Mandai Estate	Industrial	3	89	126	0.0	Negligible	Imperceptible	Possible	Negligible
112	90 Mandai Estate	Industrial	3	88	125	0.0	Negligible	Imperceptible	Possible	Negligible
113	96 Mandai Estate	Industrial	3	83	118	0.0	Negligible	Imperceptible	Possible	Negligible
114	94 Mandai Estate	Industrial	3	84	119	0.0	Negligible	Imperceptible	Possible	Negligible
115	92 Mandai Estate	Industrial	3	86	122	0.0	Negligible	Imperceptible	Possible	Negligible
116	88 Mandai Estate	Industrial	3	91	129	0.0	Negligible	Imperceptible	Possible	Negligible
117	633D Senja Road	Residential	2	1579	2234	0.0	Negligible	Imperceptible	Possible	Negligible
118	West View Primary School	Educational Institution	2	1654	2339	0.0	Negligible	Imperceptible	Possible	Negligible

Detailed Ground-borne Vibration Assessment Results

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
119	180 Woodlands Road	Commercial	3	1048	1482	0.0	Negligible	Imperceptible	Possible	Negligible
120	663 Choa Chu Kang Cres	Residential	2	39	57	0.1	Negligible	Imperceptible	Possible	Negligible
121	662 Choa Chu Kang Cres	Residential	2	29	44	0.1	Negligible	Imperceptible	Possible	Negligible
122	668A Choa Chu Kang Cres	Residential	3	67	96	0.0	Negligible	Imperceptible	Possible	Negligible
123	664 Choa Chu Kang Cres	Residential	2	87	123	0.0	Negligible	Imperceptible	Possible	Negligible
124	661 Choa Chu Kang Cres	Residential	2	60	85	0.0	Negligible	Imperceptible	Possible	Negligible
125	656 Choa Chu Kang Cres	Residential	3	88	125	0.0	Negligible	Imperceptible	Possible	Negligible
126	Beside 3 Sungei Kadut Street 3	Industrial	3	76	107	0.0	Negligible	Imperceptible	Possible	Negligible
127	4 Sungei Kadut Street 3	Industrial	3	58	82	0.0	Negligible	Imperceptible	Possible	Negligible
128	4 Sungei Kadut Street 3	Industrial	3	81	114	0.0	Negligible	Imperceptible	Possible	Negligible
129	4 Sungei Kadut Street 3	Industrial	3	85	120	0.0	Negligible	Imperceptible	Possible	Negligible
130	31 Sungei Kadut Street 2	Industrial	3	84	119	0.0	Negligible	Imperceptible	Possible	Negligible
131	38 Sungei Kadut Street 2	Industrial	3	66	93	0.0	Negligible	Imperceptible	Possible	Negligible
132	6 Sungei Kadut Street 2	Industrial	3	82	116	0.0	Negligible	Imperceptible	Possible	Negligible
133	6 Sungei Kadut Street 2	Industrial	3	57	80	0.0	Negligible	Imperceptible	Possible	Negligible
134	27 Sungei Kadut Street 1	Industrial	3	81	115	0.0	Negligible	Imperceptible	Possible	Negligible
135	27 Sungei Kadut Street 1	Industrial	3	86	122	0.0	Negligible	Imperceptible	Possible	Negligible
136	27 Sungei Kadut Street 1	Industrial	3	12	17	0.6	Negligible	Imperceptible	Possible	Negligible
137	27 Sungei Kadut Street 1	Industrial	3	72	102	0.0	Negligible	Imperceptible	Possible	Negligible
138	27 Sungei Kadut Street 1	Industrial	3	31	44	0.1	Negligible	Imperceptible	Possible	Negligible
139	27 Sungei Kadut Street 1	Industrial	3	83	118	0.0	Negligible	Imperceptible	Possible	Negligible
140	25 Sungei Kadut Street 1	Industrial	3	68	96	0.0	Negligible	Imperceptible	Possible	Negligible
141	Beside 25A Sungei Kadut Street 1	Industrial	3	7	11	0.9	Negligible	Imperceptible	Possible	Negligible
142	23 Sungei Kadut Street 1	Industrial	3	41	58	0.0	Negligible	Imperceptible	Possible	Negligible
143	36 Sungei Kadut Street 1	Industrial	3	131	186	0.0	Negligible	Imperceptible	Possible	Negligible
144	Beside 34 Sungei Kadut Street 1	Industrial	3	42	60	0.0	Negligible	Imperceptible	Possible	Negligible
145	6A Mandai Estate	Industrial	3	103	146	0.0	Negligible	Imperceptible	Possible	Negligible
146	566 Woodlands Road	Commercial	3	96	135	0.0	Negligible	Imperceptible	Possible	Negligible
147	350 Woodlands Road	Industrial	3	59	84	0.0	Negligible	Imperceptible	Possible	Negligible

Detailed Ground-borne Vibration Assessment Results

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
1	21A Woodlands Road	Industrial	3	0	1	2.4	Low	Very Low	Possible	Minor
2	632 Senja Road	Residential	2	18	25	1.1	Medium	Low	Possible	Minor
3	633 Senja Road	Residential	2	66	94	0.2	Negligible	Imperceptible	Possible	Negligible
4	633B Senja Road	Residential	2	43	61	0.3	Low	Very Low	Possible	Minor
5	632A Senja Road	Residential	2	18	25	1.0	Medium	Low	Possible	Minor
6	633A Senja Road	Residential	2	50	72	0.2	Negligible	Imperceptible	Possible	Negligible
7	634C Senja Road	Residential	3	41	59	0.3	Negligible	Imperceptible	Possible	Negligible
8	634A Senja Road	Residential	2	14	20	1.5	Medium	Low	Possible	Minor
9	634B Senja Road	Residential	2	72	101	0.2	Negligible	Imperceptible	Possible	Negligible
10	634 Senja Road	Residential	2	17	23	1.2	Medium	Low	Possible	Minor
11	635B Senja Road	Residential	2	82	117	0.1	Negligible	Imperceptible	Possible	Negligible
12	635A Senja Road	Residential	2	30	43	0.5	Low	Very Low	Possible	Minor
13	635 Senja Road	Residential	2	94	134	0.1	Negligible	Imperceptible	Possible	Negligible
14	250A Woodlands Road	Industrial	3	68	96	0.2	Negligible	Imperceptible	Possible	Negligible
15	243A Woodlands Road	Industrial	3	296	418	0.0	Negligible	Imperceptible	Possible	Negligible
16	3 Jln Gali Batu	Industrial	3	270	382	0.0	Negligible	Imperceptible	Possible	Negligible
17	5 Stagmont RIng	Industrial	3	78	111	0.1	Negligible	Imperceptible	Possible	Negligible
18	38 Choa Chu Kang Street 64	Residential	2	68	97	0.2	Negligible	Imperceptible	Possible	Negligible
19	40 Choa Chu Kang Street 64	Residential	2	39	55	0.4	Low	Very Low	Possible	Minor
20	36 Choa Chu Kang Street 64	Residential	2	81	114	0.1	Negligible	Imperceptible	Possible	Negligible
21	42 Choa Chu Kang Street 64	Residential	2	15	22	1.3	Medium	Low	Possible	Minor
22	44 Choa Chu Kang Street 64	Residential	2	25	36	0.7	Low	Very Low	Possible	Minor
23	46 Choa Chu Kang Street 64	Residential	2	36	51	0.4	Low	Very Low	Possible	Minor
24	692A Choa Chu Kang Cres	Residential	2	53	75	0.2	Negligible	Imperceptible	Possible	Negligible
25	656 Choa Chu Kang Cres	Residential	2	81	115	0.1	Negligible	Imperceptible	Possible	Negligible
26	691 Choa Chu Kang Cres	Recreational	3	41	58	0.3	Negligible	Imperceptible	Possible	Negligible
27	691A Choa Chu Kang Cres	Residential	2	20	28	0.9	Low	Very Low	Possible	Minor
28	691B Choa Chu Kang Cres	Residential	2	1	2	2.4	Medium	Low	Possible	Minor
29	8 Sungei Kadut Avenue	Industrial	3	64	91	0.2	Negligible	Imperceptible	Possible	Negligible
30	690D Choa Chu Kang Cres	Residential	2	2	4	2.4	Medium	Low	Possible	Minor
31	690C Choa Chu Kang Cres	Residential	2	61	87	0.2	Negligible	Imperceptible	Possible	Negligible
32	19 Sungei Kadut Avenue	Industrial	3	177	250	0.0	Negligible	Imperceptible	Possible	Negligible
33	14 Sungei Kadut Avenue	Industrial	3	50	70	0.3	Negligible	Imperceptible	Possible	Negligible
34	16 Sungei Kadut Avenue	Industrial	3	46	65	0.3	Negligible	Imperceptible	Possible	Negligible
35	18 Sungei Kadut Avenue	Industrial	3	89	125	0.1	Negligible	Imperceptible	Possible	Negligible
36	20 Sungei Kadut Way	Industrial	3	93	131	0.1	Negligible	Imperceptible	Possible	Negligible
37	2C Mandai Estate	Industrial	3	14	20	1.4	Low	Very Low	Possible	Minor
38	22 Sungei Kadut Avenue	Industrial	3	57	81	0.2	Negligible	Imperceptible	Possible	Negligible
39	32 Sungei Kadut Way	Industrial	3	40	57	0.3	Negligible	Imperceptible	Possible	Negligible
40	2B Mandai Estate	Industrial	3	4	6	2.4	Low	Very Low	Possible	Minor
41	20A Sungei Kadut Way	Industrial	3	2	4	2.4	Low	Very Low	Possible	Minor

Detailed Ground-borne Vibration Assessment Results

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
42	20 Sungei Kadut Way	Industrial	3	34	48	0.4	Negligible	Imperceptible	Possible	Negligible
43	18 Sungei Kadut Way	Industrial	3	70	100	0.2	Negligible	Imperceptible	Possible	Negligible
44	2A Mandai Estate	Industrial	3	5	7	2.4	Low	Very Low	Possible	Minor
45	15 Sungei Kadut Way	Industrial	3	12	17	1.8	Low	Very Low	Possible	Minor
46	5 Sungei Kadut Way	Industrial	3	87	122	0.1	Negligible	Imperceptible	Possible	Negligible
47	31 Sungei Kadut Avenue	Industrial	3	28	39	0.6	Negligible	Imperceptible	Possible	Negligible
48	45 Sungei Kadut Avenue	Industrial	3	49	70	0.3	Negligible	Imperceptible	Possible	Negligible
49	33 Sungei Kadut Avenue	Industrial	3	28	39	0.6	Negligible	Imperceptible	Possible	Negligible
50	39 Sungei Kadut Avenue	Industrial	3	29	41	0.5	Negligible	Imperceptible	Possible	Negligible
51	17 Sungei Kadut Way	Industrial	3	26	37	0.6	Negligible	Imperceptible	Possible	Negligible
52	48 Sungei Kadut Avenue	Industrial	3	66	93	0.2	Negligible	Imperceptible	Possible	Negligible
53	46 Sungei Kadut Avenue	Industrial	3	18	25	1.1	Low	Very Low	Possible	Minor
54	23H Sungei Kadut Street 1	Industrial	3	44	62	0.3	Negligible	Imperceptible	Possible	Negligible
55	23F Sungei Kadut Street 1	Industrial	3	9	13	2.4	Low	Very Low	Possible	Minor
56	21 Sungei Kadut Street 1	Industrial	3	6	9	2.4	Low	Very Low	Possible	Minor
57	23A Sungei Kadut Street 1	Industrial	3	0	1	2.4	Low	Very Low	Possible	Minor
58	15 Sungei Kadut Street 2	Industrial	3	28	40	0.6	Negligible	Imperceptible	Possible	Negligible
59	15 Sungei Kadut Street 2	Industrial	3	27	38	0.6	Negligible	Imperceptible	Possible	Negligible
60	5 Sungei Kadut Street 2	Industrial	3	9	13	2.4	Low	Very Low	Possible	Minor
61	8 Sungei Kadut Street 2	Industrial	3	10	14	2.4	Low	Very Low	Possible	Minor
62	18 Sungei Kadut Street 2	Industrial	3	12	17	1.8	Low	Very Low	Possible	Minor
63	8 Sungei Kadut Street 2	Industrial	3	7	9	2.4	Low	Very Low	Possible	Minor
64	36 Sungei Kadut Street 2	Industrial	3	1	2	2.4	Low	Very Low	Possible	Minor
65	38 Sungei Kadut Street 2	Industrial	3	3	4	2.4	Low	Very Low	Possible	Minor
66	38 Sungei Kadut Street 2	Industrial	3	26	37	0.6	Negligible	Imperceptible	Possible	Negligible
67	25 Sungei Kadut Street 2	Industrial	3	7	10	2.4	Low	Very Low	Possible	Minor
68	31 Sungei Kadut Street 2	Industrial	3	46	66	0.3	Negligible	Imperceptible	Possible	Negligible
69	31 Sungei Kadut Street 2	Industrial	3	64	90	0.2	Negligible	Imperceptible	Possible	Negligible
70	29 Sungei Kadut Street 2	Industrial	3	8	12	2.4	Low	Very Low	Possible	Minor
71	29 Sungei Kadut Street 2	Industrial	3	37	52	0.4	Negligible	Imperceptible	Possible	Negligible
72	31 Sungei Kadut Street 2	Industrial	3	54	77	0.2	Negligible	Imperceptible	Possible	Negligible
73	29 Sungei Kadut Street 2	Industrial	3	2	4	2.4	Low	Very Low	Possible	Minor
74	31 Sungei Kadut Street 2	Industrial	3	44	63	0.3	Negligible	Imperceptible	Possible	Negligible
75	29 Sungei Kadut Street 2	Industrial	3	8	11	2.4	Low	Very Low	Possible	Minor
76	31 Sungei Kadut Street 2	Industrial	3	38	54	0.4	Negligible	Imperceptible	Possible	Negligible
77	7 Sungei Kadut Street 3	Industrial	3	47	67	0.3	Negligible	Imperceptible	Possible	Negligible
78	Beside 3 Sungei Kadut Street 3	Industrial	3	45	64	0.3	Negligible	Imperceptible	Possible	Negligible
79	3 Sungei Kadut Street 3	Industrial	3	4	6	2.4	Low	Very Low	Possible	Minor
80	3 Sungei Kadut Street 3	Industrial	3	6	8	2.4	Low	Very Low	Possible	Minor
81	Beside 3 Sungei Kadut Street 3	Industrial	3	44	62	0.3	Negligible	Imperceptible	Possible	Negligible
82	8 Sungei Kadut Street 3	Industrial	3	30	43	0.5	Negligible	Imperceptible	Possible	Negligible

Detailed Ground-borne Vibration Assessment Results

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
83	10 Sungei Kadut Street 3	Industrial	3	68	96	0.2	Negligible	Imperceptible	Possible	Negligible
84	10 Sungei Kadut Street 3	Industrial	3	46	65	0.3	Negligible	Imperceptible	Possible	Negligible
85	6 Sungei Kadut Street 3	Industrial	3	36	52	0.4	Negligible	Imperceptible	Possible	Negligible
86	25 Sungei Kadut Avenue	Place of Worship	2	111	157	0.1	Negligible	Imperceptible	Possible	Negligible
87	337 Woodlands Road	Industrial	3	0	1	2.4	Low	Very Low	Possible	Minor
88	Tennis Court Beside 46 Choa Chu Kang Street 64	Recreational	3	67	95	0.2	Negligible	Imperceptible	Possible	Negligible
89	692 Choa Chu Kang Cres	Residential	3	5	8	2.4	Low	Very Low	Possible	Minor
90	7 Mandai Link	Industrial	3	55	78	0.2	Negligible	Imperceptible	Possible	Negligible
91	12 Sungei Kadut Avenue	Industrial	3	68	97	0.2	Negligible	Imperceptible	Possible	Negligible
92	350 Woodlands Road	Industrial	3	0	0	2.4	Low	Very Low	Possible	Minor
93	350 Woodlands Road	Industrial	3	0	0	2.4	Low	Very Low	Possible	Minor
94	350 Woodlands Road	Industrial	3	1	1	2.4	Low	Very Low	Possible	Minor
95	350 Woodlands Road	Industrial	3	0	0	2.4	Low	Very Low	Possible	Minor
96	350 Woodlands Road	Industrial	3	0	0	2.4	Low	Very Low	Possible	Minor
97	350 Woodlands Road	Industrial	3	62	88	0.2	Negligible	Imperceptible	Possible	Negligible
98	350 Woodlands Road	Industrial	3	51	72	0.2	Negligible	Imperceptible	Possible	Negligible
99	350 Woodlands Road	Industrial	3	91	128	0.1	Negligible	Imperceptible	Possible	Negligible
100	350 Woodlands Road	Industrial	3	71	101	0.2	Negligible	Imperceptible	Possible	Negligible
101	350 Woodlands Road	Industrial	3	36	51	0.4	Negligible	Imperceptible	Possible	Negligible
102	Building between 2A and 2B Mandai Estate	Industrial	3	5	8	2.4	Low	Very Low	Possible	Minor
103	Container Building along Gali Batu Close	Industrial	3	51	73	0.2	Negligible	Imperceptible	Possible	Negligible
104	689 Choa Chu Kand Drive	Industrial	3	9	13	2.4	Low	Very Low	Possible	Minor
105	632B Senja Road	Residential	2	25	35	0.7	Low	Very Low	Possible	Minor
106	633C Senja Road	Residential	2	65	92	0.2	Negligible	Imperceptible	Possible	Negligible
107	9 Sungei Kadut Street 3	Industrial	3	93	131	0.1	Negligible	Imperceptible	Possible	Negligible
108	692B Choa Chu Kang Cres	Residential	2	50	71	0.2	Negligible	Imperceptible	Possible	Negligible
109	690A Choa Chu Kang Cres	Residential	2	84	119	0.1	Negligible	Imperceptible	Possible	Negligible
110	32 Choa Chu Kang Street 64	Residential	2	93	131	0.1	Negligible	Imperceptible	Possible	Negligible
111	6D Mandai Estate	Industrial	3	88	124	0.1	Negligible	Imperceptible	Possible	Negligible
112	90 Mandai Estate	Industrial	3	91	128	0.1	Negligible	Imperceptible	Possible	Negligible
113	96 Mandai Estate	Industrial	3	86	122	0.1	Negligible	Imperceptible	Possible	Negligible
114	94 Mandai Estate	Industrial	3	87	123	0.1	Negligible	Imperceptible	Possible	Negligible
115	92 Mandai Estate	Industrial	3	89	126	0.1	Negligible	Imperceptible	Possible	Negligible
116	88 Mandai Estate	Industrial	3	93	131	0.1	Negligible	Imperceptible	Possible	Negligible
117	633D Senja Road	Residential	2	82	117	0.1	Negligible	Imperceptible	Possible	Negligible
118	West View Primary School	Educational Institution	2	50	71	0.3	Negligible	Imperceptible	Possible	Negligible

Detailed Ground-borne Vibration Assessment Results

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
119	180 Woodlands Road	Commercial	3	48	69	0.3	Negligible	Imperceptible	Possible	Negligible
120	663 Choa Chu Kang Cres	Residential	2	39	57	0.4	Low	Very Low	Possible	Minor
121	662 Choa Chu Kang Cres	Residential	2	29	44	0.5	Low	Very Low	Possible	Minor
122	668A Choa Chu Kang Cres	Residential	3	67	96	0.2	Negligible	Imperceptible	Possible	Negligible
123	664 Choa Chu Kang Cres	Residential	2	87	124	0.1	Negligible	Imperceptible	Possible	Negligible
124	661 Choa Chu Kang Cres	Residential	2	60	85	0.2	Negligible	Imperceptible	Possible	Negligible
125	656 Choa Chu Kang Cres	Residential	3	88	125	0.1	Negligible	Imperceptible	Possible	Negligible
126	Beside 3 Sungei Kadut Street 3	Industrial	3	76	107	0.1	Negligible	Imperceptible	Possible	Negligible
127	4 Sungei Kadut Street 3	Industrial	3	58	82	0.2	Negligible	Imperceptible	Possible	Negligible
128	4 Sungei Kadut Street 3	Industrial	3	81	114	0.1	Negligible	Imperceptible	Possible	Negligible
129	4 Sungei Kadut Street 3	Industrial	3	85	120	0.1	Negligible	Imperceptible	Possible	Negligible
130	31 Sungei Kadut Street 2	Industrial	3	84	119	0.1	Negligible	Imperceptible	Possible	Negligible
131	38 Sungei Kadut Street 2	Industrial	3	65	93	0.2	Negligible	Imperceptible	Possible	Negligible
132	6 Sungei Kadut Street 2	Industrial	3	82	116	0.1	Negligible	Imperceptible	Possible	Negligible
133	6 Sungei Kadut Street 2	Industrial	3	57	80	0.2	Negligible	Imperceptible	Possible	Negligible
134	27 Sungei Kadut Street 1	Industrial	3	81	115	0.1	Negligible	Imperceptible	Possible	Negligible
135	27 Sungei Kadut Street 1	Industrial	3	86	122	0.1	Negligible	Imperceptible	Possible	Negligible
136	27 Sungei Kadut Street 1	Industrial	3	12	17	1.9	Low	Very Low	Possible	Minor
137	27 Sungei Kadut Street 1	Industrial	3	72	102	0.2	Negligible	Imperceptible	Possible	Negligible
138	27 Sungei Kadut Street 1	Industrial	3	31	44	0.5	Negligible	Imperceptible	Possible	Negligible
139	27 Sungei Kadut Street 1	Industrial	3	83	118	0.1	Negligible	Imperceptible	Possible	Negligible
140	25 Sungei Kadut Street 1	Industrial	3	68	96	0.2	Negligible	Imperceptible	Possible	Negligible
141	Beside 25A Sungei Kadut Street 1	Industrial	3	7	11	2.4	Low	Very Low	Possible	Minor
142	23 Sungei Kadut Street 1	Industrial	3	33	48	0.4	Negligible	Imperceptible	Possible	Negligible
143	36 Sungei Kadut Street 1	Industrial	3	68	97	0.2	Negligible	Imperceptible	Possible	Negligible
144	Beside 34 Sungei Kadut Street 1	Industrial	3	0	5	2.4	Low	Very Low	Possible	Minor
145	6A Mandai Estate	Industrial	3	96	137	0.1	Negligible	Imperceptible	Possible	Negligible
146	566 Woodlands Road	Commercial	3	96	135	0.1	Negligible	Imperceptible	Possible	Negligible
147	350 Woodlands Road	Industrial	3	54	77	0.2	Negligible	Imperceptible	Possible	Negligible

Detailed Ground-borne Vibration Assessment Results

Vibratory Compactor (Low)

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
1	21A Woodlands Road	Industrial	3	0	1	1.4	Low	Very Low	Less Likely	Negligible
2	632 Senja Road	Residential	2	18	25	0.7	Low	Very Low	Less Likely	Negligible
3	633 Senja Road	Residential	2	66	94	0.1	Negligible	Imperceptible	Less Likely	Negligible
4	633B Senja Road	Residential	2	43	61	0.2	Negligible	Imperceptible	Less Likely	Negligible
5	632A Senja Road	Residential	2	18	25	0.7	Low	Very Low	Less Likely	Negligible
6	633A Senja Road	Residential	2	50	72	0.2	Negligible	Imperceptible	Less Likely	Negligible
7	634C Senja Road	Residential	3	41	59	0.2	Negligible	Imperceptible	Less Likely	Negligible
8	634A Senja Road	Residential	2	14	20	0.9	Low	Very Low	Less Likely	Negligible
9	634B Senja Road	Residential	2	72	101	0.1	Negligible	Imperceptible	Less Likely	Negligible
10	634 Senja Road	Residential	2	17	23	0.8	Low	Very Low	Less Likely	Negligible
11	635B Senja Road	Residential	2	82	117	0.1	Negligible	Imperceptible	Less Likely	Negligible
12	635A Senja Road	Residential	2	30	43	0.3	Low	Very Low	Less Likely	Negligible
13	635 Senja Road	Residential	2	94	134	0.1	Negligible	Imperceptible	Less Likely	Negligible
14	250A Woodlands Road	Industrial	3	68	96	0.1	Negligible	Imperceptible	Less Likely	Negligible
15	243A Woodlands Road	Industrial	3	296	418	0.0	Negligible	Imperceptible	Less Likely	Negligible
16	3 Jln Gali Batu	Industrial	3	270	382	0.0	Negligible	Imperceptible	Less Likely	Negligible
17	5 Stagmont RIng	Industrial	3	78	111	0.1	Negligible	Imperceptible	Less Likely	Negligible
18	38 Choa Chu Kang Street 64	Residential	2	68	97	0.1	Negligible	Imperceptible	Less Likely	Negligible
19	40 Choa Chu Kang Street 64	Residential	2	39	55	0.2	Negligible	Imperceptible	Less Likely	Negligible
20	36 Choa Chu Kang Street 64	Residential	2	81	114	0.1	Negligible	Imperceptible	Less Likely	Negligible
21	42 Choa Chu Kang Street 64	Residential	2	15	22	0.9	Low	Very Low	Less Likely	Negligible
22	44 Choa Chu Kang Street 64	Residential	2	25	36	0.4	Low	Very Low	Less Likely	Negligible
23	46 Choa Chu Kang Street 64	Residential	2	36	51	0.3	Negligible	Imperceptible	Less Likely	Negligible
24	692A Choa Chu Kang Cres	Residential	2	53	75	0.1	Negligible	Imperceptible	Less Likely	Negligible
25	656 Choa Chu Kang Cres	Residential	2	81	115	0.1	Negligible	Imperceptible	Less Likely	Negligible
26	691 Choa Chu Kang Cres	Recreational	3	41	58	0.2	Negligible	Imperceptible	Less Likely	Negligible
27	691A Choa Chu Kang Cres	Residential	2	20	28	0.6	Low	Very Low	Less Likely	Negligible
28	691B Choa Chu Kang Cres	Residential	2	1	2	1.4	Medium	Low	Less Likely	Minor
29	8 Sungei Kadut Avenue	Industrial	3	64	91	0.1	Negligible	Imperceptible	Less Likely	Negligible
30	690D Choa Chu Kang Cres	Residential	2	2	4	1.4	Medium	Low	Less Likely	Minor
31	690C Choa Chu Kang Cres	Residential	2	61	87	0.1	Negligible	Imperceptible	Less Likely	Negligible
32	19 Sungei Kadut Avenue	Industrial	3	177	250	0.0	Negligible	Imperceptible	Less Likely	Negligible
33	14 Sungei Kadut Avenue	Industrial	3	50	70	0.2	Negligible	Imperceptible	Less Likely	Negligible
34	16 Sungei Kadut Avenue	Industrial	3	46	65	0.2	Negligible	Imperceptible	Less Likely	Negligible
35	18 Sungei Kadut Avenue	Industrial	3	89	125	0.1	Negligible	Imperceptible	Less Likely	Negligible
36	20 Sungei Kadut Way	Industrial	3	93	131	0.1	Negligible	Imperceptible	Less Likely	Negligible
37	2C Mandai Estate	Industrial	3	14	20	0.9	Negligible	Imperceptible	Less Likely	Negligible
38	22 Sungei Kadut Avenue	Industrial	3	57	81	0.1	Negligible	Imperceptible	Less Likely	Negligible
39	32 Sungei Kadut Way	Industrial	3	40	57	0.2	Negligible	Imperceptible	Less Likely	Negligible
40	2B Mandai Estate	Industrial	3	4	6	1.4	Low	Very Low	Less Likely	Negligible
41	20A Sungei Kadut Way	Industrial	3	2	4	1.4	Low	Very Low	Less Likely	Negligible

Detailed Ground-borne Vibration Assessment Results

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
42	20 Sungei Kadut Way	Industrial	3	34	48	0.3	Negligible	Imperceptible	Less Likely	Negligible
43	18 Sungei Kadut Way	Industrial	3	70	100	0.1	Negligible	Imperceptible	Less Likely	Negligible
44	2A Mandai Estate	Industrial	3	5	7	1.4	Low	Very Low	Less Likely	Negligible
45	15 Sungei Kadut Way	Industrial	3	12	17	1.1	Low	Very Low	Less Likely	Negligible
46	5 Sungei Kadut Way	Industrial	3	87	122	0.1	Negligible	Imperceptible	Less Likely	Negligible
47	31 Sungei Kadut Avenue	Industrial	3	28	39	0.4	Negligible	Imperceptible	Less Likely	Negligible
48	45 Sungei Kadut Avenue	Industrial	3	49	70	0.2	Negligible	Imperceptible	Less Likely	Negligible
49	33 Sungei Kadut Avenue	Industrial	3	28	39	0.4	Negligible	Imperceptible	Less Likely	Negligible
50	39 Sungei Kadut Avenue	Industrial	3	29	41	0.4	Negligible	Imperceptible	Less Likely	Negligible
51	17 Sungei Kadut Way	Industrial	3	26	37	0.4	Negligible	Imperceptible	Less Likely	Negligible
52	48 Sungei Kadut Avenue	Industrial	3	66	93	0.1	Negligible	Imperceptible	Less Likely	Negligible
53	46 Sungei Kadut Avenue	Industrial	3	18	25	0.7	Negligible	Imperceptible	Less Likely	Negligible
54	23H Sungei Kadut Street 1	Industrial	3	44	62	0.2	Negligible	Imperceptible	Less Likely	Negligible
55	23F Sungei Kadut Street 1	Industrial	3	9	13	1.4	Low	Very Low	Less Likely	Negligible
56	21 Sungei Kadut Street 1	Industrial	3	6	9	1.4	Low	Very Low	Less Likely	Negligible
57	23A Sungei Kadut Street 1	Industrial	3	0	1	1.4	Low	Very Low	Less Likely	Negligible
58	15 Sungei Kadut Street 2	Industrial	3	28	40	0.4	Negligible	Imperceptible	Less Likely	Negligible
59	15 Sungei Kadut Street 2	Industrial	3	27	38	0.4	Negligible	Imperceptible	Less Likely	Negligible
60	5 Sungei Kadut Street 2	Industrial	3	9	13	1.4	Low	Very Low	Less Likely	Negligible
61	8 Sungei Kadut Street 2	Industrial	3	10	14	1.4	Low	Very Low	Less Likely	Negligible
62	18 Sungei Kadut Street 2	Industrial	3	12	17	1.1	Low	Very Low	Less Likely	Negligible
63	8 Sungei Kadut Street 2	Industrial	3	7	9	1.4	Low	Very Low	Less Likely	Negligible
64	36 Sungei Kadut Street 2	Industrial	3	1	2	1.4	Low	Very Low	Less Likely	Negligible
65	38 Sungei Kadut Street 2	Industrial	3	3	4	1.4	Low	Very Low	Less Likely	Negligible
66	38 Sungei Kadut Street 2	Industrial	3	26	37	0.4	Negligible	Imperceptible	Less Likely	Negligible
67	25 Sungei Kadut Street 2	Industrial	3	7	10	1.4	Low	Very Low	Less Likely	Negligible
68	31 Sungei Kadut Street 2	Industrial	3	46	66	0.2	Negligible	Imperceptible	Less Likely	Negligible
69	31 Sungei Kadut Street 2	Industrial	3	64	90	0.1	Negligible	Imperceptible	Less Likely	Negligible
70	29 Sungei Kadut Street 2	Industrial	3	8	12	1.4	Low	Very Low	Less Likely	Negligible
71	29 Sungei Kadut Street 2	Industrial	3	37	52	0.3	Negligible	Imperceptible	Less Likely	Negligible
72	31 Sungei Kadut Street 2	Industrial	3	54	77	0.1	Negligible	Imperceptible	Less Likely	Negligible
73	29 Sungei Kadut Street 2	Industrial	3	2	4	1.4	Low	Very Low	Less Likely	Negligible
74	31 Sungei Kadut Street 2	Industrial	3	44	63	0.2	Negligible	Imperceptible	Less Likely	Negligible
75	29 Sungei Kadut Street 2	Industrial	3	8	11	1.4	Low	Very Low	Less Likely	Negligible
76	31 Sungei Kadut Street 2	Industrial	3	38	54	0.2	Negligible	Imperceptible	Less Likely	Negligible
77	7 Sungei Kadut Street 3	Industrial	3	47	67	0.2	Negligible	Imperceptible	Less Likely	Negligible
78	Beside 3 Sungei Kadut Street 3	Industrial	3	45	64	0.2	Negligible	Imperceptible	Less Likely	Negligible
79	3 Sungei Kadut Street 3	Industrial	3	4	6	1.4	Low	Very Low	Less Likely	Negligible
80	3 Sungei Kadut Street 3	Industrial	3	6	8	1.4	Low	Very Low	Less Likely	Negligible
81	Beside 3 Sungei Kadut Street 3	Industrial	3	44	62	0.2	Negligible	Imperceptible	Less Likely	Negligible
82	8 Sungei Kadut Street 3	Industrial	3	30	43	0.3	Negligible	Imperceptible	Less Likely	Negligible

Detailed Ground-borne Vibration Assessment Results

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
83	10 Sungei Kadut Street 3	Industrial	3	68	96	0.1	Negligible	Imperceptible	Less Likely	Negligible
84	10 Sungei Kadut Street 3	Industrial	3	46	65	0.2	Negligible	Imperceptible	Less Likely	Negligible
85	6 Sungei Kadut Street 3	Industrial	3	36	52	0.3	Negligible	Imperceptible	Less Likely	Negligible
86	25 Sungei Kadut Avenue	Place of Worship	2	111	157	0.1	Negligible	Imperceptible	Less Likely	Negligible
87	337 Woodlands Road	Industrial	3	0	1	1.4	Low	Very Low	Less Likely	Negligible
88	Tennis Court Beside 46 Choa Chu Kang Street 64	Recreational	3	67	95	0.1	Negligible	Imperceptible	Less Likely	Negligible
89	692 Choa Chu Kang Cres	Residential	3	5	8	1.4	Low	Very Low	Less Likely	Negligible
90	7 Mandai Link	Industrial	3	55	78	0.1	Negligible	Imperceptible	Less Likely	Negligible
91	12 Sungei Kadut Avenue	Industrial	3	68	97	0.1	Negligible	Imperceptible	Less Likely	Negligible
92	350 Woodlands Road	Industrial	3	0	0	1.4	Low	Very Low	Less Likely	Negligible
93	350 Woodlands Road	Industrial	3	0	0	1.4	Low	Very Low	Less Likely	Negligible
94	350 Woodlands Road	Industrial	3	1	1	1.4	Low	Very Low	Less Likely	Negligible
95	350 Woodlands Road	Industrial	3	0	0	1.4	Low	Very Low	Less Likely	Negligible
96	350 Woodlands Road	Industrial	3	0	0	1.4	Low	Very Low	Less Likely	Negligible
97	350 Woodlands Road	Industrial	3	62	88	0.1	Negligible	Imperceptible	Less Likely	Negligible
98	350 Woodlands Road	Industrial	3	51	72	0.2	Negligible	Imperceptible	Less Likely	Negligible
99	350 Woodlands Road	Industrial	3	91	128	0.1	Negligible	Imperceptible	Less Likely	Negligible
100	350 Woodlands Road	Industrial	3	71	101	0.1	Negligible	Imperceptible	Less Likely	Negligible
101	350 Woodlands Road	Industrial	3	36	51	0.3	Negligible	Imperceptible	Less Likely	Negligible
102	Building between 2A and 2B Mandai Estate	Industrial	3	5	8	1.4	Low	Very Low	Less Likely	Negligible
103	Container Building along Gali Batu Close	Industrial	3	51	73	0.2	Negligible	Imperceptible	Less Likely	Negligible
104	689 Choa Chu Kand Drive	Industrial	3	9	13	1.4	Low	Very Low	Less Likely	Negligible
105	632B Senja Road	Residential	2	25	35	0.4	Low	Very Low	Less Likely	Negligible
106	633C Senja Road	Residential	2	65	92	0.1	Negligible	Imperceptible	Less Likely	Negligible
107	9 Sungei Kadut Street 3	Industrial	3	93	131	0.1	Negligible	Imperceptible	Less Likely	Negligible
108	692B Choa Chu Kang Cres	Residential	2	50	71	0.2	Negligible	Imperceptible	Less Likely	Negligible
109	690A Choa Chu Kang Cres	Residential	2	84	119	0.1	Negligible	Imperceptible	Less Likely	Negligible
110	32 Choa Chu Kang Street 64	Residential	2	93	131	0.1	Negligible	Imperceptible	Less Likely	Negligible
111	6D Mandai Estate	Industrial	3	88	124	0.1	Negligible	Imperceptible	Less Likely	Negligible
112	90 Mandai Estate	Industrial	3	91	128	0.1	Negligible	Imperceptible	Less Likely	Negligible
113	96 Mandai Estate	Industrial	3	86	122	0.1	Negligible	Imperceptible	Less Likely	Negligible
114	94 Mandai Estate	Industrial	3	87	123	0.1	Negligible	Imperceptible	Less Likely	Negligible
115	92 Mandai Estate	Industrial	3	89	126	0.1	Negligible	Imperceptible	Less Likely	Negligible
116	88 Mandai Estate	Industrial	3	93	131	0.1	Negligible	Imperceptible	Less Likely	Negligible
117	633D Senja Road	Residential	2	82	117	0.1	Negligible	Imperceptible	Less Likely	Negligible
118	West View Primary School	Educational Institution	2	50	71	0.2	Negligible	Imperceptible	Less Likely	Negligible

Detailed Ground-borne Vibration Assessment Results

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
119	180 Woodlands Road	Commercial	3	48	69	0.2	Negligible	Imperceptible	Less Likely	Negligible
120	663 Choa Chu Kang Cres	Residential	2	39	57	0.2	Negligible	Imperceptible	Less Likely	Negligible
121	662 Choa Chu Kang Cres	Residential	2	29	44	0.3	Low	Very Low	Less Likely	Negligible
122	668A Choa Chu Kang Cres	Residential	3	67	96	0.1	Negligible	Imperceptible	Less Likely	Negligible
123	664 Choa Chu Kang Cres	Residential	2	87	124	0.1	Negligible	Imperceptible	Less Likely	Negligible
124	661 Choa Chu Kang Cres	Residential	2	60	85	0.1	Negligible	Imperceptible	Less Likely	Negligible
125	656 Choa Chu Kang Cres	Residential	3	88	125	0.1	Negligible	Imperceptible	Less Likely	Negligible
126	Beside 3 Sungei Kadut Street 3	Industrial	3	76	107	0.1	Negligible	Imperceptible	Less Likely	Negligible
127	4 Sungei Kadut Street 3	Industrial	3	58	82	0.1	Negligible	Imperceptible	Less Likely	Negligible
128	4 Sungei Kadut Street 3	Industrial	3	81	114	0.1	Negligible	Imperceptible	Less Likely	Negligible
129	4 Sungei Kadut Street 3	Industrial	3	85	120	0.1	Negligible	Imperceptible	Less Likely	Negligible
130	31 Sungei Kadut Street 2	Industrial	3	84	119	0.1	Negligible	Imperceptible	Less Likely	Negligible
131	38 Sungei Kadut Street 2	Industrial	3	65	93	0.1	Negligible	Imperceptible	Less Likely	Negligible
132	6 Sungei Kadut Street 2	Industrial	3	82	116	0.1	Negligible	Imperceptible	Less Likely	Negligible
133	6 Sungei Kadut Street 2	Industrial	3	57	80	0.1	Negligible	Imperceptible	Less Likely	Negligible
134	27 Sungei Kadut Street 1	Industrial	3	81	115	0.1	Negligible	Imperceptible	Less Likely	Negligible
135	27 Sungei Kadut Street 1	Industrial	3	86	122	0.1	Negligible	Imperceptible	Less Likely	Negligible
136	27 Sungei Kadut Street 1	Industrial	3	12	17	1.2	Low	Very Low	Less Likely	Negligible
137	27 Sungei Kadut Street 1	Industrial	3	72	102	0.1	Negligible	Imperceptible	Less Likely	Negligible
138	27 Sungei Kadut Street 1	Industrial	3	31	44	0.3	Negligible	Imperceptible	Less Likely	Negligible
139	27 Sungei Kadut Street 1	Industrial	3	83	118	0.1	Negligible	Imperceptible	Less Likely	Negligible
140	25 Sungei Kadut Street 1	Industrial	3	68	96	0.1	Negligible	Imperceptible	Less Likely	Negligible
141	Beside 25A Sungei Kadut Street 1	Industrial	3	7	11	1.4	Low	Very Low	Less Likely	Negligible
142	23 Sungei Kadut Street 1	Industrial	3	33	48	0.3	Negligible	Imperceptible	Less Likely	Negligible
143	36 Sungei Kadut Street 1	Industrial	3	68	97	0.1	Negligible	Imperceptible	Less Likely	Negligible
144	Beside 34 Sungei Kadut Street 1	Industrial	3	0	5	1.4	Low	Very Low	Less Likely	Negligible
145	6A Mandai Estate	Industrial	3	96	137	0.1	Negligible	Imperceptible	Less Likely	Negligible
146	566 Woodlands Road	Commercial	3	96	135	0.1	Negligible	Imperceptible	Less Likely	Negligible
147	350 Woodlands Road	Industrial	3	54	77	0.1	Negligible	Imperceptible	Less Likely	Negligible

Detailed Ground-borne Vibration Assessment Results

Vibratory Compactor (High)

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
1	21A Woodlands Road	Industrial	3	0	1	4.0	Low	Very Low	Less Likely	Negligible
2	632 Senja Road	Residential	2	18	25	1.9	Medium	Low	Less Likely	Minor
3	633 Senja Road	Residential	2	66	94	0.3	Negligible	Imperceptible	Less Likely	Negligible
4	633B Senja Road	Residential	2	43	61	0.6	Low	Very Low	Less Likely	Negligible
5	632A Senja Road	Residential	2	18	25	1.9	Medium	Low	Less Likely	Minor
6	633A Senja Road	Residential	2	50	72	0.4	Low	Very Low	Less Likely	Negligible
7	634C Senja Road	Residential	3	41	59	0.6	Negligible	Imperceptible	Less Likely	Negligible
8	634A Senja Road	Residential	2	14	20	2.6	Medium	Low	Less Likely	Minor
9	634B Senja Road	Residential	2	72	101	0.3	Negligible	Imperceptible	Less Likely	Negligible
10	634 Senja Road	Residential	2	17	23	2.1	Medium	Low	Less Likely	Minor
11	635B Senja Road	Residential	2	82	117	0.2	Negligible	Imperceptible	Less Likely	Negligible
12	635A Senja Road	Residential	2	30	43	0.9	Low	Very Low	Less Likely	Negligible
13	635 Senja Road	Residential	2	94	134	0.2	Negligible	Imperceptible	Less Likely	Negligible
14	250A Woodlands Road	Industrial	3	68	96	0.3	Negligible	Imperceptible	Less Likely	Negligible
15	243A Woodlands Road	Industrial	3	296	418	0.0	Negligible	Imperceptible	Less Likely	Negligible
16	3 Jln Gali Batu	Industrial	3	270	382	0.0	Negligible	Imperceptible	Less Likely	Negligible
17	5 Stagmont RIng	Industrial	3	78	111	0.2	Negligible	Imperceptible	Less Likely	Negligible
18	38 Choa Chu Kang Street 64	Residential	2	68	97	0.3	Negligible	Imperceptible	Less Likely	Negligible
19	40 Choa Chu Kang Street 64	Residential	2	39	55	0.6	Low	Very Low	Less Likely	Negligible
20	36 Choa Chu Kang Street 64	Residential	2	81	114	0.2	Negligible	Imperceptible	Less Likely	Negligible
21	42 Choa Chu Kang Street 64	Residential	2	15	22	2.4	Medium	Low	Less Likely	Minor
22	44 Choa Chu Kang Street 64	Residential	2	25	36	1.2	Medium	Low	Less Likely	Minor
23	46 Choa Chu Kang Street 64	Residential	2	36	51	0.7	Low	Very Low	Less Likely	Negligible
24	692A Choa Chu Kang Cres	Residential	2	53	75	0.4	Low	Very Low	Less Likely	Negligible
25	656 Choa Chu Kang Cres	Residential	2	81	115	0.2	Negligible	Imperceptible	Less Likely	Negligible
26	691 Choa Chu Kang Cres	Recreational	3	41	58	0.6	Negligible	Imperceptible	Less Likely	Negligible
27	691A Choa Chu Kang Cres	Residential	2	20	28	1.6	Medium	Low	Less Likely	Minor
28	691B Choa Chu Kang Cres	Residential	2	1	2	4.0	Medium	Low	Less Likely	Minor
29	8 Sungei Kadut Avenue	Industrial	3	64	91	0.3	Negligible	Imperceptible	Less Likely	Negligible
30	690D Choa Chu Kang Cres	Residential	2	2	4	4.0	Medium	Low	Less Likely	Minor
31	690C Choa Chu Kang Cres	Residential	2	61	87	0.3	Low	Very Low	Less Likely	Negligible
32	19 Sungei Kadut Avenue	Industrial	3	177	250	0.1	Negligible	Imperceptible	Less Likely	Negligible
33	14 Sungei Kadut Avenue	Industrial	3	50	70	0.5	Negligible	Imperceptible	Less Likely	Negligible
34	16 Sungei Kadut Avenue	Industrial	3	46	65	0.5	Negligible	Imperceptible	Less Likely	Negligible
35	18 Sungei Kadut Avenue	Industrial	3	89	125	0.2	Negligible	Imperceptible	Less Likely	Negligible
36	20 Sungei Kadut Way	Industrial	3	93	131	0.2	Negligible	Imperceptible	Less Likely	Negligible
37	2C Mandai Estate	Industrial	3	14	20	2.5	Low	Very Low	Less Likely	Negligible
38	22 Sungei Kadut Avenue	Industrial	3	57	81	0.4	Negligible	Imperceptible	Less Likely	Negligible
39	32 Sungei Kadut Way	Industrial	3	40	57	0.6	Negligible	Imperceptible	Less Likely	Negligible
40	2B Mandai Estate	Industrial	3	4	6	4.0	Low	Very Low	Less Likely	Negligible
41	20A Sungei Kadut Way	Industrial	3	2	4	4.0	Low	Very Low	Less Likely	Negligible

Detailed Ground-borne Vibration Assessment Results

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
42	20 Sungei Kadut Way	Industrial	3	34	48	0.8	Negligible	Imperceptible	Less Likely	Negligible
43	18 Sungei Kadut Way	Industrial	3	70	100	0.3	Negligible	Imperceptible	Less Likely	Negligible
44	2A Mandai Estate	Industrial	3	5	7	4.0	Low	Very Low	Less Likely	Negligible
45	15 Sungei Kadut Way	Industrial	3	12	17	3.1	Low	Very Low	Less Likely	Negligible
46	5 Sungei Kadut Way	Industrial	3	87	122	0.2	Negligible	Imperceptible	Less Likely	Negligible
47	31 Sungei Kadut Avenue	Industrial	3	28	39	1.0	Low	Very Low	Less Likely	Negligible
48	45 Sungei Kadut Avenue	Industrial	3	49	70	0.5	Negligible	Imperceptible	Less Likely	Negligible
49	33 Sungei Kadut Avenue	Industrial	3	28	39	1.0	Low	Very Low	Less Likely	Negligible
50	39 Sungei Kadut Avenue	Industrial	3	29	41	1.0	Negligible	Imperceptible	Less Likely	Negligible
51	17 Sungei Kadut Way	Industrial	3	26	37	1.1	Low	Very Low	Less Likely	Negligible
52	48 Sungei Kadut Avenue	Industrial	3	66	93	0.3	Negligible	Imperceptible	Less Likely	Negligible
53	46 Sungei Kadut Avenue	Industrial	3	18	25	1.9	Low	Very Low	Less Likely	Negligible
54	23H Sungei Kadut Street 1	Industrial	3	44	62	0.5	Negligible	Imperceptible	Less Likely	Negligible
55	23F Sungei Kadut Street 1	Industrial	3	9	13	4.0	Low	Very Low	Less Likely	Negligible
56	21 Sungei Kadut Street 1	Industrial	3	6	9	4.0	Low	Very Low	Less Likely	Negligible
57	23A Sungei Kadut Street 1	Industrial	3	0	1	4.0	Low	Very Low	Less Likely	Negligible
58	15 Sungei Kadut Street 2	Industrial	3	28	40	1.0	Low	Very Low	Less Likely	Negligible
59	15 Sungei Kadut Street 2	Industrial	3	27	38	1.1	Low	Very Low	Less Likely	Negligible
60	5 Sungei Kadut Street 2	Industrial	3	9	13	4.0	Low	Very Low	Less Likely	Negligible
61	8 Sungei Kadut Street 2	Industrial	3	10	14	4.0	Low	Very Low	Less Likely	Negligible
62	18 Sungei Kadut Street 2	Industrial	3	12	17	3.1	Low	Very Low	Less Likely	Negligible
63	8 Sungei Kadut Street 2	Industrial	3	7	9	4.0	Low	Very Low	Less Likely	Negligible
64	36 Sungei Kadut Street 2	Industrial	3	1	2	4.0	Low	Very Low	Less Likely	Negligible
65	38 Sungei Kadut Street 2	Industrial	3	3	4	4.0	Low	Very Low	Less Likely	Negligible
66	38 Sungei Kadut Street 2	Industrial	3	26	37	1.1	Low	Very Low	Less Likely	Negligible
67	25 Sungei Kadut Street 2	Industrial	3	7	10	4.0	Low	Very Low	Less Likely	Negligible
68	31 Sungei Kadut Street 2	Industrial	3	46	66	0.5	Negligible	Imperceptible	Less Likely	Negligible
69	31 Sungei Kadut Street 2	Industrial	3	64	90	0.3	Negligible	Imperceptible	Less Likely	Negligible
70	29 Sungei Kadut Street 2	Industrial	3	8	12	4.0	Low	Very Low	Less Likely	Negligible
71	29 Sungei Kadut Street 2	Industrial	3	37	52	0.7	Negligible	Imperceptible	Less Likely	Negligible
72	31 Sungei Kadut Street 2	Industrial	3	54	77	0.4	Negligible	Imperceptible	Less Likely	Negligible
73	29 Sungei Kadut Street 2	Industrial	3	2	4	4.0	Low	Very Low	Less Likely	Negligible
74	31 Sungei Kadut Street 2	Industrial	3	44	63	0.5	Negligible	Imperceptible	Less Likely	Negligible
75	29 Sungei Kadut Street 2	Industrial	3	8	11	4.0	Low	Very Low	Less Likely	Negligible
76	31 Sungei Kadut Street 2	Industrial	3	38	54	0.7	Negligible	Imperceptible	Less Likely	Negligible
77	7 Sungei Kadut Street 3	Industrial	3	47	67	0.5	Negligible	Imperceptible	Less Likely	Negligible
78	Beside 3 Sungei Kadut Street 3	Industrial	3	45	64	0.5	Negligible	Imperceptible	Less Likely	Negligible
79	3 Sungei Kadut Street 3	Industrial	3	4	6	4.0	Low	Very Low	Less Likely	Negligible
80	3 Sungei Kadut Street 3	Industrial	3	6	8	4.0	Low	Very Low	Less Likely	Negligible
81	Beside 3 Sungei Kadut Street 3	Industrial	3	44	62	0.5	Negligible	Imperceptible	Less Likely	Negligible
82	8 Sungei Kadut Street 3	Industrial	3	30	43	0.9	Negligible	Imperceptible	Less Likely	Negligible

Detailed Ground-borne Vibration Assessment Results

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
83	10 Sungei Kadut Street 3	Industrial	3	68	96	0.3	Negligible	Imperceptible	Less Likely	Negligible
84	10 Sungei Kadut Street 3	Industrial	3	46	65	0.5	Negligible	Imperceptible	Less Likely	Negligible
85	6 Sungei Kadut Street 3	Industrial	3	36	52	0.7	Negligible	Imperceptible	Less Likely	Negligible
86	25 Sungei Kadut Avenue	Place of Worship	2	111	157	0.1	Negligible	Imperceptible	Less Likely	Negligible
87	337 Woodlands Road	Industrial	3	0	1	4.0	Low	Very Low	Less Likely	Negligible
88	Tennis Court Beside 46 Choa Chu Kang Street 64	Recreational	3	67	95	0.3	Negligible	Imperceptible	Less Likely	Negligible
89	692 Choa Chu Kang Cres	Residential	3	5	8	4.0	Low	Very Low	Less Likely	Negligible
90	7 Mandai Link	Industrial	3	55	78	0.4	Negligible	Imperceptible	Less Likely	Negligible
91	12 Sungei Kadut Avenue	Industrial	3	68	97	0.3	Negligible	Imperceptible	Less Likely	Negligible
92	350 Woodlands Road	Industrial	3	0	0	4.0	Low	Very Low	Less Likely	Negligible
93	350 Woodlands Road	Industrial	3	0	0	4.0	Low	Very Low	Less Likely	Negligible
94	350 Woodlands Road	Industrial	3	1	1	4.0	Low	Very Low	Less Likely	Negligible
95	350 Woodlands Road	Industrial	3	0	0	4.0	Low	Very Low	Less Likely	Negligible
96	350 Woodlands Road	Industrial	3	0	0	4.0	Low	Very Low	Less Likely	Negligible
97	350 Woodlands Road	Industrial	3	62	88	0.3	Negligible	Imperceptible	Less Likely	Negligible
98	350 Woodlands Road	Industrial	3	51	72	0.4	Negligible	Imperceptible	Less Likely	Negligible
99	350 Woodlands Road	Industrial	3	91	128	0.2	Negligible	Imperceptible	Less Likely	Negligible
100	350 Woodlands Road	Industrial	3	71	101	0.3	Negligible	Imperceptible	Less Likely	Negligible
101	350 Woodlands Road	Industrial	3	36	51	0.7	Negligible	Imperceptible	Less Likely	Negligible
102	Building between 2A and 2B Mandai Estate	Industrial	3	5	8	4.0	Low	Very Low	Less Likely	Negligible
103	Container Building along Gali Batu Close	Industrial	3	51	73	0.4	Negligible	Imperceptible	Less Likely	Negligible
104	689 Choa Chu Kand Drive	Industrial	3	9	13	4.0	Low	Very Low	Less Likely	Negligible
105	632B Senja Road	Residential	2	25	35	1.2	Medium	Low	Less Likely	Minor
106	633C Senja Road	Residential	2	65	92	0.3	Low	Very Low	Less Likely	Negligible
107	9 Sungei Kadut Street 3	Industrial	3	93	131	0.2	Negligible	Imperceptible	Less Likely	Negligible
108	692B Choa Chu Kang Cres	Residential	2	50	71	0.4	Low	Very Low	Less Likely	Negligible
109	690A Choa Chu Kang Cres	Residential	2	84	119	0.2	Negligible	Imperceptible	Less Likely	Negligible
110	32 Choa Chu Kang Street 64	Residential	2	93	131	0.2	Negligible	Imperceptible	Less Likely	Negligible
111	6D Mandai Estate	Industrial	3	88	124	0.2	Negligible	Imperceptible	Less Likely	Negligible
112	90 Mandai Estate	Industrial	3	91	128	0.2	Negligible	Imperceptible	Less Likely	Negligible
113	96 Mandai Estate	Industrial	3	86	122	0.2	Negligible	Imperceptible	Less Likely	Negligible
114	94 Mandai Estate	Industrial	3	87	123	0.2	Negligible	Imperceptible	Less Likely	Negligible
115	92 Mandai Estate	Industrial	3	89	126	0.2	Negligible	Imperceptible	Less Likely	Negligible
116	88 Mandai Estate	Industrial	3	93	131	0.2	Negligible	Imperceptible	Less Likely	Negligible
117	633D Senja Road	Residential	2	82	117	0.2	Negligible	Imperceptible	Less Likely	Negligible
118	West View Primary School	Educational Institution	2	50	71	0.5	Low	Very Low	Less Likely	Negligible

Detailed Ground-borne Vibration Assessment Results

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
119	180 Woodlands Road	Commercial	3	48	69	0.5	Negligible	Imperceptible	Less Likely	Negligible
120	663 Choa Chu Kang Cres	Residential	2	39	57	0.6	Low	Very Low	Less Likely	Negligible
121	662 Choa Chu Kang Cres	Residential	2	29	44	1.0	Low	Very Low	Less Likely	Negligible
122	668A Choa Chu Kang Cres	Residential	3	67	96	0.3	Negligible	Imperceptible	Less Likely	Negligible
123	664 Choa Chu Kang Cres	Residential	2	87	124	0.2	Negligible	Imperceptible	Less Likely	Negligible
124	661 Choa Chu Kang Cres	Residential	2	60	85	0.3	Low	Very Low	Less Likely	Negligible
125	656 Choa Chu Kang Cres	Residential	3	88	125	0.2	Negligible	Imperceptible	Less Likely	Negligible
126	Beside 3 Sungei Kadut Street 3	Industrial	3	76	107	0.2	Negligible	Imperceptible	Less Likely	Negligible
127	4 Sungei Kadut Street 3	Industrial	3	58	82	0.4	Negligible	Imperceptible	Less Likely	Negligible
128	4 Sungei Kadut Street 3	Industrial	3	81	114	0.2	Negligible	Imperceptible	Less Likely	Negligible
129	4 Sungei Kadut Street 3	Industrial	3	85	120	0.2	Negligible	Imperceptible	Less Likely	Negligible
130	31 Sungei Kadut Street 2	Industrial	3	84	119	0.2	Negligible	Imperceptible	Less Likely	Negligible
131	38 Sungei Kadut Street 2	Industrial	3	65	93	0.3	Negligible	Imperceptible	Less Likely	Negligible
132	6 Sungei Kadut Street 2	Industrial	3	82	116	0.2	Negligible	Imperceptible	Less Likely	Negligible
133	6 Sungei Kadut Street 2	Industrial	3	57	80	0.4	Negligible	Imperceptible	Less Likely	Negligible
134	27 Sungei Kadut Street 1	Industrial	3	81	115	0.2	Negligible	Imperceptible	Less Likely	Negligible
135	27 Sungei Kadut Street 1	Industrial	3	86	122	0.2	Negligible	Imperceptible	Less Likely	Negligible
136	27 Sungei Kadut Street 1	Industrial	3	12	17	3.3	Low	Very Low	Less Likely	Negligible
137	27 Sungei Kadut Street 1	Industrial	3	72	102	0.3	Negligible	Imperceptible	Less Likely	Negligible
138	27 Sungei Kadut Street 1	Industrial	3	31	44	0.9	Negligible	Imperceptible	Less Likely	Negligible
139	27 Sungei Kadut Street 1	Industrial	3	83	118	0.2	Negligible	Imperceptible	Less Likely	Negligible
140	25 Sungei Kadut Street 1	Industrial	3	68	96	0.3	Negligible	Imperceptible	Less Likely	Negligible
141	Beside 25A Sungei Kadut Street 1	Industrial	3	7	11	4.0	Low	Very Low	Less Likely	Negligible
142	23 Sungei Kadut Street 1	Industrial	3	33	48	0.8	Negligible	Imperceptible	Less Likely	Negligible
143	36 Sungei Kadut Street 1	Industrial	3	68	97	0.3	Negligible	Imperceptible	Less Likely	Negligible
144	Beside 34 Sungei Kadut Street 1	Industrial	3	0	5	4.0	Low	Very Low	Less Likely	Negligible
145	6A Mandai Estate	Industrial	3	96	137	0.2	Negligible	Imperceptible	Less Likely	Negligible
146	566 Woodlands Road	Commercial	3	96	135	0.2	Negligible	Imperceptible	Less Likely	Negligible
147	350 Woodlands Road	Industrial	3	54	77	0.4	Negligible	Imperceptible	Less Likely	Negligible

Detailed Ground-borne Vibration Assessment Results

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
1	21A Woodlands Road	Industrial	3	55	57	0.9	Negligible	Imperceptible	Certain	Negligible
2	632 Senja Road	Residential	2	42	45	1.3	Medium	Low	Certain	Moderate
3	633 Senja Road	Residential	2	88	90	0.5	Low	Very Low	Certain	Minor
4	633B Senja Road	Residential	2	57	59	0.9	Low	Very Low	Certain	Minor
5	632A Senja Road	Residential	2	30	35	1.8	Medium	Low	Certain	Moderate
6	633A Senja Road	Residential	2	62	65	0.8	Low	Very Low	Certain	Minor
7	634C Senja Road	Residential	3	52	55	1.0	Negligible	Imperceptible	Certain	Negligible
8	634A Senja Road	Residential	2	22	28	2.3	Medium	Low	Certain	Moderate
9	634B Senja Road	Residential	2	81	83	0.6	Low	Very Low	Certain	Minor
10	634 Senja Road	Residential	2	19	26	2.6	Medium	Low	Certain	Moderate
11	635B Senja Road	Residential	2	81	83	0.6	Low	Very Low	Certain	Minor
12	635A Senja Road	Residential	2	18	27	2.5	Medium	Low	Certain	Moderate
13	635 Senja Road	Residential	2	82	84	0.6	Low	Very Low	Certain	Minor
14	250A Woodlands Road	Industrial	3	32	42	1.4	Low	Very Low	Certain	Minor
15	243A Woodlands Road	Industrial	3	22	35	1.8	Low	Very Low	Certain	Minor
16	3 Jln Gali Batu	Industrial	3	71	76	0.6	Negligible	Imperceptible	Certain	Negligible
17	5 Stagmont RIng	Industrial	3	0	31	2.0	Low	Very Low	Certain	Minor
18	38 Choa Chu Kang Street 64	Residential	2	188	190	0.5	Low	Very Low	Certain	Minor
19	40 Choa Chu Kang Street 64	Residential	2	138	140	0.5	Low	Very Low	Certain	Minor
20	36 Choa Chu Kang Street 64	Residential	2	244	245	0.5	Low	Very Low	Certain	Minor
21	42 Choa Chu Kang Street 64	Residential	2	145	146	0.5	Low	Very Low	Certain	Minor
22	44 Choa Chu Kang Street 64	Residential	2	196	197	0.5	Low	Very Low	Certain	Minor
23	46 Choa Chu Kang Street 64	Residential	2	247	248	0.5	Low	Very Low	Certain	Minor
24	692A Choa Chu Kang Cres	Residential	2	169	170	0.5	Low	Very Low	Certain	Minor
25	656 Choa Chu Kang Cres	Residential	2	284	284	0.5	Low	Very Low	Certain	Minor
26	691 Choa Chu Kang Cres	Recreational	3	194	195	0.5	Negligible	Imperceptible	Certain	Negligible
27	691A Choa Chu Kang Cres	Residential	2	168	169	0.5	Low	Very Low	Certain	Minor
28	691B Choa Chu Kang Cres	Residential	2	167	169	0.5	Low	Very Low	Certain	Minor
29	8 Sungei Kadut Avenue	Industrial	3	140	141	0.5	Negligible	Imperceptible	Certain	Negligible
30	690D Choa Chu Kang Cres	Residential	2	153	154	0.5	Low	Very Low	Certain	Minor
31	690C Choa Chu Kang Cres	Residential	2	151	152	0.5	Low	Very Low	Certain	Minor
32	19 Sungei Kadut Avenue	Industrial	3	42	45	1.3	Low	Very Low	Certain	Minor
33	14 Sungei Kadut Avenue	Industrial	3	140	141	0.5	Negligible	Imperceptible	Certain	Negligible
34	16 Sungei Kadut Avenue	Industrial	3	105	106	0.5	Negligible	Imperceptible	Certain	Negligible
35	18 Sungei Kadut Avenue	Industrial	3	105	106	0.5	Negligible	Imperceptible	Certain	Negligible
36	20 Sungei Kadut Way	Industrial	3	100	101	0.5	Negligible	Imperceptible	Certain	Negligible
37	2C Mandai Estate	Industrial	3	35	39	1.6	Low	Very Low	Certain	Minor
38	22 Sungei Kadut Avenue	Industrial	3	14	26	2.7	Low	Very Low	Certain	Minor
39	32 Sungei Kadut Way	Industrial	3	21	30	2.2	Low	Very Low	Certain	Minor
40	2B Mandai Estate	Industrial	3	48	53	1.0	Low	Very Low	Certain	Minor
41	20A Sungei Kadut Way	Industrial	3	29	37	1.6	Low	Very Low	Certain	Minor

Detailed Ground-borne Vibration Assessment Results

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
42	20 Sungei Kadut Way	Industrial	3	43	46	1.2	Low	Very Low	Certain	Minor
43	18 Sungei Kadut Way	Industrial	3	68	72	0.7	Negligible	Imperceptible	Certain	Negligible
44	2A Mandai Estate	Industrial	3	79	82	0.6	Negligible	Imperceptible	Certain	Negligible
45	15 Sungei Kadut Way	Industrial	3	58	63	0.8	Negligible	Imperceptible	Certain	Negligible
46	5 Sungei Kadut Way	Industrial	3	60	64	0.8	Negligible	Imperceptible	Certain	Negligible
47	31 Sungei Kadut Avenue	Industrial	3	41	47	1.2	Low	Very Low	Certain	Minor
48	45 Sungei Kadut Avenue	Industrial	3	55	59	0.9	Negligible	Imperceptible	Certain	Negligible
49	33 Sungei Kadut Avenue	Industrial	3	67	71	0.7	Negligible	Imperceptible	Certain	Negligible
50	39 Sungei Kadut Avenue	Industrial	3	14	26	2.6	Low	Very Low	Certain	Minor
51	17 Sungei Kadut Way	Industrial	3	75	78	0.6	Negligible	Imperceptible	Certain	Negligible
52	48 Sungei Kadut Avenue	Industrial	3	86	88	0.5	Negligible	Imperceptible	Certain	Negligible
53	46 Sungei Kadut Avenue	Industrial	3	32	36	1.7	Low	Very Low	Certain	Minor
54	23H Sungei Kadut Street 1	Industrial	3	77	79	0.6	Negligible	Imperceptible	Certain	Negligible
55	23F Sungei Kadut Street 1	Industrial	3	42	46	1.2	Low	Very Low	Certain	Minor
56	21 Sungei Kadut Street 1	Industrial	3	190	191	0.5	Negligible	Imperceptible	Certain	Negligible
57	23A Sungei Kadut Street 1	Industrial	3	153	154	0.5	Negligible	Imperceptible	Certain	Negligible
58	15 Sungei Kadut Street 2	Industrial	3	64	66	0.8	Negligible	Imperceptible	Certain	Negligible
59	15 Sungei Kadut Street 2	Industrial	3	43	46	1.3	Low	Very Low	Certain	Minor
60	5 Sungei Kadut Street 2	Industrial	3	57	59	0.9	Negligible	Imperceptible	Certain	Negligible
61	8 Sungei Kadut Street 2	Industrial	3	87	88	0.5	Negligible	Imperceptible	Certain	Negligible
62	18 Sungei Kadut Street 2	Industrial	3	77	78	0.6	Negligible	Imperceptible	Certain	Negligible
63	8 Sungei Kadut Street 2	Industrial	3	84	85	0.6	Negligible	Imperceptible	Certain	Negligible
64	36 Sungei Kadut Street 2	Industrial	3	44	50	1.1	Low	Very Low	Certain	Minor
65	38 Sungei Kadut Street 2	Industrial	3	69	73	0.7	Negligible	Imperceptible	Certain	Negligible
66	38 Sungei Kadut Street 2	Industrial	3	92	95	0.5	Negligible	Imperceptible	Certain	Negligible
67	25 Sungei Kadut Street 2	Industrial	3	40	42	1.4	Low	Very Low	Certain	Minor
68	31 Sungei Kadut Street 2	Industrial	3	102	103	0.5	Negligible	Imperceptible	Certain	Negligible
69	31 Sungei Kadut Street 2	Industrial	3	102	103	0.5	Negligible	Imperceptible	Certain	Negligible
70	29 Sungei Kadut Street 2	Industrial	3	41	43	1.3	Low	Very Low	Certain	Minor
71	29 Sungei Kadut Street 2	Industrial	3	69	71	0.7	Negligible	Imperceptible	Certain	Negligible
72	31 Sungei Kadut Street 2	Industrial	3	102	103	0.5	Negligible	Imperceptible	Certain	Negligible
73	29 Sungei Kadut Street 2	Industrial	3	40	43	1.4	Low	Very Low	Certain	Minor
74	31 Sungei Kadut Street 2	Industrial	3	103	104	0.5	Negligible	Imperceptible	Certain	Negligible
75	29 Sungei Kadut Street 2	Industrial	3	70	72	0.7	Negligible	Imperceptible	Certain	Negligible
76	31 Sungei Kadut Street 2	Industrial	3	101	102	0.5	Negligible	Imperceptible	Certain	Negligible
77	7 Sungei Kadut Street 3	Industrial	3	63	65	0.8	Negligible	Imperceptible	Certain	Negligible
78	Beside 3 Sungei Kadut Street 3	Industrial	3	108	109	0.5	Negligible	Imperceptible	Certain	Negligible
79	3 Sungei Kadut Street 3	Industrial	3	67	68	0.7	Negligible	Imperceptible	Certain	Negligible
80	3 Sungei Kadut Street 3	Industrial	3	71	72	0.7	Negligible	Imperceptible	Certain	Negligible
81	Beside 3 Sungei Kadut Street 3	Industrial	3	107	108	0.5	Negligible	Imperceptible	Certain	Negligible
82	8 Sungei Kadut Street 3	Industrial	3	58	59	0.9	Negligible	Imperceptible	Certain	Negligible

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
83	10 Sungei Kadut Street 3	Industrial	3	93	94	0.5	Negligible	Imperceptible	Certain	Negligible
84	10 Sungei Kadut Street 3	Industrial	3	71	72	0.7	Negligible	Imperceptible	Certain	Negligible
85	6 Sungei Kadut Street 3	Industrial	3	67	68	0.7	Negligible	Imperceptible	Certain	Negligible
86	25 Sungei Kadut Avenue	Place of Worship	2	0	21	3.3	Medium	Low	Certain	Moderate
87	337 Woodlands Road	Industrial	3	22	38	1.6	Low	Very Low	Certain	Minor
88	Tennis Court Beside 46 Choa Chu Kang Street 64	Recreational	3	296	297	0.5	Negligible	Imperceptible	Certain	Negligible
89	692 Choa Chu Kang Cres	Residential	3	152	154	0.5	Negligible	Imperceptible	Certain	Negligible
90	7 Mandai Link	Industrial	3	196	197	0.5	Negligible	Imperceptible	Certain	Negligible
91	12 Sungei Kadut Avenue	Industrial	3	139	140	0.5	Negligible	Imperceptible	Certain	Negligible
92	350 Woodlands Road	Industrial	3	68	70	0.7	Negligible	Imperceptible	Certain	Negligible
93	350 Woodlands Road	Industrial	3	136	137	0.5	Negligible	Imperceptible	Certain	Negligible
94	350 Woodlands Road	Industrial	3	156	156	0.5	Negligible	Imperceptible	Certain	Negligible
95	350 Woodlands Road	Industrial	3	189	189	0.5	Negligible	Imperceptible	Certain	Negligible
96	350 Woodlands Road	Industrial	3	216	217	0.5	Negligible	Imperceptible	Certain	Negligible
97	350 Woodlands Road	Industrial	3	384	384	0.5	Negligible	Imperceptible	Certain	Negligible
98	350 Woodlands Road	Industrial	3	356	356	0.5	Negligible	Imperceptible	Certain	Negligible
99	350 Woodlands Road	Industrial	3	358	358	0.5	Negligible	Imperceptible	Certain	Negligible
100	350 Woodlands Road	Industrial	3	373	374	0.5	Negligible	Imperceptible	Certain	Negligible
101	350 Woodlands Road	Industrial	3	276	276	0.5	Negligible	Imperceptible	Certain	Negligible
102	Building between 2A and 2B Mandai Estate	Industrial	3	68	71	0.7	Negligible	Imperceptible	Certain	Negligible
103	Container Building along Gali Batu Close	Industrial	3	98	99	0.5	Negligible	Imperceptible	Certain	Negligible
104	689 Choa Chu Kand Drive	Industrial	3	207	207	0.5	Negligible	Imperceptible	Certain	Negligible
105	632B Senja Road	Residential	2	105	107	0.5	Low	Very Low	Certain	Minor
106	633C Senja Road	Residential	2	114	116	0.5	Low	Very Low	Certain	Minor
107	9 Sungei Kadut Street 3	Industrial	3	109	110	0.5	Negligible	Imperceptible	Certain	Negligible
108	692B Choa Chu Kang Cres	Residential	2	167	168	0.5	Low	Very Low	Certain	Minor
109	690A Choa Chu Kang Cres	Residential	2	199	199	0.5	Low	Very Low	Certain	Minor
110	32 Choa Chu Kang Street 64	Residential	2	155	157	0.5	Low	Very Low	Certain	Minor
111	6D Mandai Estate	Industrial	3	141	142	0.5	Negligible	Imperceptible	Certain	Negligible
112	90 Mandai Estate	Industrial	3	113	115	0.5	Negligible	Imperceptible	Certain	Negligible
113	96 Mandai Estate	Industrial	3	120	122	0.5	Negligible	Imperceptible	Certain	Negligible
114	94 Mandai Estate	Industrial	3	117	119	0.5	Negligible	Imperceptible	Certain	Negligible
115	92 Mandai Estate	Industrial	3	116	118	0.5	Negligible	Imperceptible	Certain	Negligible
116	88 Mandai Estate	Industrial	3	112	114	0.5	Negligible	Imperceptible	Certain	Negligible
117	633D Senja Road	Residential	2	159	160	0.5	Low	Very Low	Certain	Minor
118	West View Primary School	Educational Institution	2	184	185	0.5	Low	Very Low	Certain	Minor

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Vibration Level, PPV, mm/s	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
119	180 Woodlands Road	Commercial	3	97	100	0.5	Negligible	Imperceptible	Certain	Negligible
120	663 Choa Chu Kang Cres	Residential	2	290	290	0.5	Low	Very Low	Certain	Minor
121	662 Choa Chu Kang Cres	Residential	2	279	279	0.5	Low	Very Low	Certain	Minor
122	668A Choa Chu Kang Cres	Residential	3	316	317	0.5	Negligible	Imperceptible	Certain	Negligible
123	664 Choa Chu Kang Cres	Residential	2	334	334	0.5	Low	Very Low	Certain	Minor
124	661 Choa Chu Kang Cres	Residential	2	281	282	0.5	Low	Very Low	Certain	Minor
125	656 Choa Chu Kang Cres	Residential	3	307	308	0.5	Negligible	Imperceptible	Certain	Negligible
126	Beside 3 Sungei Kadut Street 3	Industrial	3	139	139	0.5	Negligible	Imperceptible	Certain	Negligible
127	4 Sungei Kadut Street 3	Industrial	3	124	125	0.5	Negligible	Imperceptible	Certain	Negligible
128	4 Sungei Kadut Street 3	Industrial	3	142	142	0.5	Negligible	Imperceptible	Certain	Negligible
129	4 Sungei Kadut Street 3	Industrial	3	153	154	0.5	Negligible	Imperceptible	Certain	Negligible
130	31 Sungei Kadut Street 2	Industrial	3	147	148	0.5	Negligible	Imperceptible	Certain	Negligible
131	38 Sungei Kadut Street 2	Industrial	3	131	133	0.5	Negligible	Imperceptible	Certain	Negligible
132	6 Sungei Kadut Street 2	Industrial	3	159	160	0.5	Negligible	Imperceptible	Certain	Negligible
133	6 Sungei Kadut Street 2	Industrial	3	134	135	0.5	Negligible	Imperceptible	Certain	Negligible
134	27 Sungei Kadut Street 1	Industrial	3	156	157	0.5	Negligible	Imperceptible	Certain	Negligible
135	27 Sungei Kadut Street 1	Industrial	3	156	157	0.5	Negligible	Imperceptible	Certain	Negligible
136	27 Sungei Kadut Street 1	Industrial	3	157	158	0.5	Negligible	Imperceptible	Certain	Negligible
137	27 Sungei Kadut Street 1	Industrial	3	191	191	0.5	Negligible	Imperceptible	Certain	Negligible
138	27 Sungei Kadut Street 1	Industrial	3	191	192	0.5	Negligible	Imperceptible	Certain	Negligible
139	27 Sungei Kadut Street 1	Industrial	3	247	248	0.5	Negligible	Imperceptible	Certain	Negligible
140	25 Sungei Kadut Street 1	Industrial	3	231	231	0.5	Negligible	Imperceptible	Certain	Negligible
141	Beside 25A Sungei Kadut Street 1	Industrial	3	170	171	0.5	Negligible	Imperceptible	Certain	Negligible
142	23 Sungei Kadut Street 1	Industrial	3	190	191	0.5	Negligible	Imperceptible	Certain	Negligible
143	36 Sungei Kadut Street 1	Industrial	3	320	320	0.5	Negligible	Imperceptible	Certain	Negligible
144	Beside 34 Sungei Kadut Street 1	Industrial	3	215	215	0.5	Negligible	Imperceptible	Certain	Negligible
145	6A Mandai Estate	Industrial	3	179	180	0.5	Negligible	Imperceptible	Certain	Negligible
146	566 Woodlands Road	Commercial	3	213	214	0.5	Negligible	Imperceptible	Certain	Negligible
147	350 Woodlands Road	Industrial	3	183	184	0.5	Negligible	Imperceptible	Certain	Negligible
148	Future JTC Building	Commercial	3	0	14	5.9	Low	Very Low	Certain	Minor

Detailed Ground-borne Noise Assessment Results

Rock Breaking and Excavation at Sunget Kadut Station
MIC=3.8 kg

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
1	21A Woodlands Road	Industrial	3	3154	4461	12	Negligible	Imperceptible	Certain	Negligible
2	632 Senja Road	Residential	2	3091	4372	13	Negligible	Imperceptible	Certain	Negligible
3	633 Senja Road	Residential	2	3095	4377	13	Negligible	Imperceptible	Certain	Negligible
4	633B Senja Road	Residential	2	3055	4321	13	Negligible	Imperceptible	Certain	Negligible
5	632A Senja Road	Residential	2	3008	4255	13	Negligible	Imperceptible	Certain	Negligible
6	633A Senja Road	Residential	2	3009	4255	13	Negligible	Imperceptible	Certain	Negligible
7	634C Senja Road	Residential	3	2990	4229	13	Negligible	Imperceptible	Certain	Negligible
8	634A Senja Road	Residential	2	2952	4174	13	Negligible	Imperceptible	Certain	Negligible
9	634B Senja Road	Residential	2	2948	4170	13	Negligible	Imperceptible	Certain	Negligible
10	634 Senja Road	Residential	2	2888	4084	14	Negligible	Imperceptible	Certain	Negligible
11	635B Senja Road	Residential	2	2864	4050	14	Negligible	Imperceptible	Certain	Negligible
12	635A Senja Road	Residential	2	2848	4028	14	Negligible	Imperceptible	Certain	Negligible
13	635 Senja Road	Residential	2	2839	4015	14	Negligible	Imperceptible	Certain	Negligible
14	250A Woodlands Road	Industrial	3	2484	3513	16	Negligible	Imperceptible	Certain	Negligible
15	243A Woodlands Road	Industrial	3	2268	3207	17	Negligible	Imperceptible	Certain	Negligible
16	3 Jln Gali Batu	Industrial	3	2189	3095	17	Negligible	Imperceptible	Certain	Negligible
17	5 Stagmont RIng	Industrial	3	1885	2666	19	Negligible	Imperceptible	Certain	Negligible
18	38 Choa Chu Kang Street 64	Residential	2	1413	1999	23	Negligible	Imperceptible	Certain	Negligible
19	40 Choa Chu Kang Street 64	Residential	2	1415	2001	23	Negligible	Imperceptible	Certain	Negligible
20	36 Choa Chu Kang Street 64	Residential	2	1378	1949	23	Negligible	Imperceptible	Certain	Negligible
21	42 Choa Chu Kang Street 64	Residential	2	1368	1935	23	Negligible	Imperceptible	Certain	Negligible
22	44 Choa Chu Kang Street 64	Residential	2	1349	1909	23	Negligible	Imperceptible	Certain	Negligible
23	46 Choa Chu Kang Street 64	Residential	2	1327	1877	24	Negligible	Imperceptible	Certain	Negligible
24	692A Choa Chu Kang Cres	Residential	2	1234	1745	25	Negligible	Imperceptible	Certain	Negligible
25	656 Choa Chu Kang Cres	Residential	2	1209	1709	25	Negligible	Imperceptible	Certain	Negligible
26	691 Choa Chu Kang Cres	Recreational	3	1172	1657	25	Negligible	Imperceptible	Certain	Negligible
27	691A Choa Chu Kang Cres	Residential	2	1134	1604	26	Negligible	Imperceptible	Certain	Negligible
28	691B Choa Chu Kang Cres	Residential	2	1086	1537	26	Negligible	Imperceptible	Certain	Negligible
29	8 Sungei Kadut Avenue	Industrial	3	1201	1699	25	Negligible	Imperceptible	Certain	Negligible
30	690D Choa Chu Kang Cres	Residential	2	1031	1458	27	Negligible	Imperceptible	Certain	Negligible
31	690C Choa Chu Kang Cres	Residential	2	981	1388	28	Negligible	Imperceptible	Certain	Negligible
32	19 Sungei Kadut Avenue	Industrial	3	1011	1429	27	Negligible	Imperceptible	Certain	Negligible
33	14 Sungei Kadut Avenue	Industrial	3	1057	1495	27	Negligible	Imperceptible	Certain	Negligible
34	16 Sungei Kadut Avenue	Industrial	3	1027	1452	27	Negligible	Imperceptible	Certain	Negligible
35	18 Sungei Kadut Avenue	Industrial	3	979	1385	28	Negligible	Imperceptible	Certain	Negligible
36	20 Sungei Kadut Way	Industrial	3	951	1345	28	Negligible	Imperceptible	Certain	Negligible
37	2C Mandai Estate	Industrial	3	1016	1437	27	Negligible	Imperceptible	Certain	Negligible
38	22 Sungei Kadut Avenue	Industrial	3	890	1258	29	Negligible	Imperceptible	Certain	Negligible
39	32 Sungei Kadut Way	Industrial	3	669	947	33	Negligible	Imperceptible	Certain	Negligible
40	2B Mandai Estate	Industrial	3	975	1379	28	Negligible	Imperceptible	Certain	Negligible

Detailed Ground-borne Noise Assessment Results

Rock Breaking and Excavation at Sunget Kadut Station
MIC=3.8 kg

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
41	20A Sungei Kadut Way	Industrial	3	566	800	35	Negligible	Imperceptible	Certain	Negligible
42	20 Sungei Kadut Way	Industrial	3	546	772	35	Negligible	Imperceptible	Certain	Negligible
43	18 Sungei Kadut Way	Industrial	3	528	746	36	Negligible	Imperceptible	Certain	Negligible
44	2A Mandai Estate	Industrial	3	943	1334	28	Negligible	Imperceptible	Certain	Negligible
45	15 Sungei Kadut Way	Industrial	3	483	683	37	Negligible	Imperceptible	Certain	Negligible
46	5 Sungei Kadut Way	Industrial	3	420	594	39	Negligible	Imperceptible	Certain	Negligible
47	31 Sungei Kadut Avenue	Industrial	3	588	831	34	Negligible	Imperceptible	Certain	Negligible
48	45 Sungei Kadut Avenue	Industrial	3	368	521	40	Negligible	Imperceptible	Certain	Negligible
49	33 Sungei Kadut Avenue	Industrial	3	513	726	36	Negligible	Imperceptible	Certain	Negligible
50	39 Sungei Kadut Avenue	Industrial	3	389	550	40	Negligible	Imperceptible	Certain	Negligible
51	17 Sungei Kadut Way	Industrial	3	410	579	39	Negligible	Imperceptible	Certain	Negligible
52	48 Sungei Kadut Avenue	Industrial	3	283	401	44	Negligible	Imperceptible	Certain	Negligible
53	46 Sungei Kadut Avenue	Industrial	3	273	387	44	Negligible	Imperceptible	Certain	Negligible
54	23H Sungei Kadut Street 1	Industrial	3	230	325	47	Low	Very Low	Certain	Minor
55	23F Sungei Kadut Street 1	Industrial	3	206	292	48	Low	Very Low	Certain	Minor
56	21 Sungei Kadut Street 1	Industrial	3	317	448	42	Negligible	Imperceptible	Certain	Negligible
57	23A Sungei Kadut Street 1	Industrial	3	266	377	45	Negligible	Imperceptible	Certain	Negligible
58	15 Sungei Kadut Street 2	Industrial	3	83	119	60	High	Low	Certain	Moderate
59	15 Sungei Kadut Street 2	Industrial	3	104	148	57	High	Low	Certain	Moderate
60	5 Sungei Kadut Street 2	Industrial	3	59	85	64	High	Low	Certain	Moderate
61	8 Sungei Kadut Street 2	Industrial	3	158	224	51	Medium	Very Low	Certain	Minor
62	18 Sungei Kadut Street 2	Industrial	3	165	234	51	Medium	Very Low	Certain	Minor
63	8 Sungei Kadut Street 2	Industrial	3	172	243	50	Medium	Very Low	Certain	Minor
64	36 Sungei Kadut Street 2	Industrial	3	217	307	47	Low	Very Low	Certain	Minor
65	38 Sungei Kadut Street 2	Industrial	3	234	332	46	Low	Very Low	Certain	Minor
66	38 Sungei Kadut Street 2	Industrial	3	328	463	42	Negligible	Imperceptible	Certain	Negligible
67	25 Sungei Kadut Street 2	Industrial	3	372	526	40	Negligible	Imperceptible	Certain	Negligible
68	31 Sungei Kadut Street 2	Industrial	3	377	533	40	Negligible	Imperceptible	Certain	Negligible
69	31 Sungei Kadut Street 2	Industrial	3	398	564	39	Negligible	Imperceptible	Certain	Negligible
70	29 Sungei Kadut Street 2	Industrial	3	396	560	39	Negligible	Imperceptible	Certain	Negligible
71	29 Sungei Kadut Street 2	Industrial	3	401	567	39	Negligible	Imperceptible	Certain	Negligible
72	31 Sungei Kadut Street 2	Industrial	3	429	607	38	Negligible	Imperceptible	Certain	Negligible
73	29 Sungei Kadut Street 2	Industrial	3	445	630	38	Negligible	Imperceptible	Certain	Negligible
74	31 Sungei Kadut Street 2	Industrial	3	462	654	37	Negligible	Imperceptible	Certain	Negligible
75	29 Sungei Kadut Street 2	Industrial	3	449	635	38	Negligible	Imperceptible	Certain	Negligible
76	31 Sungei Kadut Street 2	Industrial	3	475	673	37	Negligible	Imperceptible	Certain	Negligible
77	7 Sungei Kadut Street 3	Industrial	3	494	699	37	Negligible	Imperceptible	Certain	Negligible
78	Beside 3 Sungei Kadut Street 3	Industrial	3	516	729	36	Negligible	Imperceptible	Certain	Negligible
79	3 Sungei Kadut Street 3	Industrial	3	492	696	37	Negligible	Imperceptible	Certain	Negligible
80	3 Sungei Kadut Street 3	Industrial	3	601	851	34	Negligible	Imperceptible	Certain	Negligible

Detailed Ground-borne Noise Assessment Results

Rock Breaking and Excavation at Sunget Kadut Station
MIC=3.8 kg

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
81	Beside 3 Sungei Kadut Street 3	Industrial	3	596	843	34	Negligible	Imperceptible	Certain	Negligible
82	8 Sungei Kadut Street 3	Industrial	3	640	906	33	Negligible	Imperceptible	Certain	Negligible
83	10 Sungei Kadut Street 3	Industrial	3	650	919	33	Negligible	Imperceptible	Certain	Negligible
84	10 Sungei Kadut Street 3	Industrial	3	646	913	33	Negligible	Imperceptible	Certain	Negligible
85	6 Sungei Kadut Street 3	Industrial	3	647	915	33	Negligible	Imperceptible	Certain	Negligible
86	25 Sungei Kadut Avenue	Place of Worship	2	801	1134	30	Negligible	Imperceptible	Certain	Negligible
87	337 Woodlands Road	Industrial	3	1821	2575	20	Negligible	Imperceptible	Certain	Negligible
88	Tennis Court Beside 46 Choa Chu Kang Street 64	Recreational	3	1309	1851	24	Negligible	Imperceptible	Certain	Negligible
89	692 Choa Chu Kang Cres	Residential	3	1265	1789	24	Negligible	Imperceptible	Certain	Negligible
90	7 Mandai Link	Industrial	3	818	1157	30	Negligible	Imperceptible	Certain	Negligible
91	12 Sungei Kadut Avenue	Industrial	3	1115	1577	26	Negligible	Imperceptible	Certain	Negligible
92	350 Woodlands Road	Industrial	3	1136	1606	26	Negligible	Imperceptible	Certain	Negligible
93	350 Woodlands Road	Industrial	3	1204	1703	25	Negligible	Imperceptible	Certain	Negligible
94	350 Woodlands Road	Industrial	3	1201	1698	25	Negligible	Imperceptible	Certain	Negligible
95	350 Woodlands Road	Industrial	3	1223	1730	25	Negligible	Imperceptible	Certain	Negligible
96	350 Woodlands Road	Industrial	3	1244	1760	25	Negligible	Imperceptible	Certain	Negligible
97	350 Woodlands Road	Industrial	3	1445	2044	23	Negligible	Imperceptible	Certain	Negligible
98	350 Woodlands Road	Industrial	3	1457	2061	22	Negligible	Imperceptible	Certain	Negligible
99	350 Woodlands Road	Industrial	3	1516	2143	22	Negligible	Imperceptible	Certain	Negligible
100	350 Woodlands Road	Industrial	3	1455	2058	23	Negligible	Imperceptible	Certain	Negligible
101	350 Woodlands Road	Industrial	3	1424	2014	23	Negligible	Imperceptible	Certain	Negligible
102	Building between 2A and 2B Mandai Estate	Industrial	3	964	1363	28	Negligible	Imperceptible	Certain	Negligible
103	Container Building along Gali Batu Close	Industrial	3	1158	1638	25	Negligible	Imperceptible	Certain	Negligible
104	689 Choa Chu Kand Drive	Industrial	3	924	1306	28	Negligible	Imperceptible	Certain	Negligible
105	632B Senja Road	Residential	2	3157	4464	12	Negligible	Imperceptible	Certain	Negligible
106	633C Senja Road	Residential	2	3122	4415	13	Negligible	Imperceptible	Certain	Negligible
107	9 Sungei Kadut Street 3	Industrial	3	502	709	36	Negligible	Imperceptible	Certain	Negligible
108	692B Choa Chu Kang Cres	Residential	2	1185	1676	25	Negligible	Imperceptible	Certain	Negligible
109	690A Choa Chu Kang Cres	Residential	2	943	1334	28	Negligible	Imperceptible	Certain	Negligible
110	32 Choa Chu Kang Street 64	Residential	2	1463	2070	22	Negligible	Imperceptible	Certain	Negligible
111	6D Mandai Estate	Industrial	3	1015	1435	27	Negligible	Imperceptible	Certain	Negligible
112	90 Mandai Estate	Industrial	3	1084	1533	26	Negligible	Imperceptible	Certain	Negligible
113	96 Mandai Estate	Industrial	3	1057	1494	27	Negligible	Imperceptible	Certain	Negligible
114	94 Mandai Estate	Industrial	3	1066	1508	27	Negligible	Imperceptible	Certain	Negligible
115	92 Mandai Estate	Industrial	3	1076	1521	26	Negligible	Imperceptible	Certain	Negligible
116	88 Mandai Estate	Industrial	3	1094	1547	26	Negligible	Imperceptible	Certain	Negligible

Detailed Ground-borne Noise Assessment Results

Rock Breaking and Excavation at Sunget Kadut Station
MIC=3.8 kg

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
117	633D Senja Road	Residential	2	3151	4456	12	Negligible	Imperceptible	Certain	Negligible
118	West View Primary School	Educational Institution	2	3226	4562	12	Negligible	Imperceptible	Certain	Negligible
119	180 Woodlands Road	Commercial	3	2605	3685	15	Negligible	Imperceptible	Certain	Negligible
120	663 Choa Chu Kang Cres	Residential	2	1030	1456	27	Negligible	Imperceptible	Certain	Negligible
121	662 Choa Chu Kang Cres	Residential	2	1085	1535	26	Negligible	Imperceptible	Certain	Negligible
122	668A Choa Chu Kang Cres	Residential	3	1059	1497	27	Negligible	Imperceptible	Certain	Negligible
123	664 Choa Chu Kang Cres	Residential	2	992	1403	28	Negligible	Imperceptible	Certain	Negligible
124	661 Choa Chu Kang Cres	Residential	2	1133	1602	26	Negligible	Imperceptible	Certain	Negligible
125	656 Choa Chu Kang Cres	Residential	3	1142	1615	26	Negligible	Imperceptible	Certain	Negligible
126	Beside 3 Sungei Kadut Street 3	Industrial	3	521	736	36	Negligible	Imperceptible	Certain	Negligible
127	4 Sungei Kadut Street 3	Industrial	3	657	930	33	Negligible	Imperceptible	Certain	Negligible
128	4 Sungei Kadut Street 3	Industrial	3	687	971	32	Negligible	Imperceptible	Certain	Negligible
129	4 Sungei Kadut Street 3	Industrial	3	663	938	33	Negligible	Imperceptible	Certain	Negligible
130	31 Sungei Kadut Street 2	Industrial	3	487	689	37	Negligible	Imperceptible	Certain	Negligible
131	38 Sungei Kadut Street 2	Industrial	3	276	391	44	Negligible	Imperceptible	Certain	Negligible
132	6 Sungei Kadut Street 2	Industrial	3	208	294	48	Low	Very Low	Certain	Minor
133	6 Sungei Kadut Street 2	Industrial	3	189	267	49	Medium	Very Low	Certain	Minor
134	27 Sungei Kadut Street 1	Industrial	3	165	233	51	Medium	Very Low	Certain	Minor
135	27 Sungei Kadut Street 1	Industrial	3	157	223	51	Medium	Very Low	Certain	Minor
136	27 Sungei Kadut Street 1	Industrial	3	161	228	51	Medium	Very Low	Certain	Minor
137	27 Sungei Kadut Street 1	Industrial	3	192	272	49	Low	Very Low	Certain	Minor
138	27 Sungei Kadut Street 1	Industrial	3	202	285	48	Low	Very Low	Certain	Minor
139	27 Sungei Kadut Street 1	Industrial	3	261	370	45	Negligible	Imperceptible	Certain	Negligible
140	25 Sungei Kadut Street 1	Industrial	3	267	378	45	Negligible	Imperceptible	Certain	Negligible
141	Beside 25A Sungei Kadut Street 1	Industrial	3	207	293	48	Low	Very Low	Certain	Minor
142	23 Sungei Kadut Street 1	Industrial	3	282	400	44	Negligible	Imperceptible	Certain	Negligible
143	36 Sungei Kadut Street 1	Industrial	3	396	560	39	Negligible	Imperceptible	Certain	Negligible
144	Beside 34 Sungei Kadut Street 1	Industrial	3	426	602	39	Negligible	Imperceptible	Certain	Negligible
145	6A Mandai Estate	Industrial	3	982	1388	28	Negligible	Imperceptible	Certain	Negligible
146	566 Woodlands Road	Commercial	3	913	1292	29	Negligible	Imperceptible	Certain	Negligible
147	350 Woodlands Road	Industrial	3	1560	2206	22	Negligible	Imperceptible	Certain	Negligible

Detailed Ground-borne Noise Assessment Results

Rock Breaking and Excavation at Sunget Kadut Station
MIC=0.8 kg

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
1	21A Woodlands Road	Industrial	3	3154	4461	2	Negligible	Imperceptible	Certain	Negligible
2	632 Senja Road	Residential	2	3091	4372	3	Negligible	Imperceptible	Certain	Negligible
3	633 Senja Road	Residential	2	3095	4377	3	Negligible	Imperceptible	Certain	Negligible
4	633B Senja Road	Residential	2	3055	4321	3	Negligible	Imperceptible	Certain	Negligible
5	632A Senja Road	Residential	2	3008	4255	3	Negligible	Imperceptible	Certain	Negligible
6	633A Senja Road	Residential	2	3009	4255	3	Negligible	Imperceptible	Certain	Negligible
7	634C Senja Road	Residential	3	2990	4229	3	Negligible	Imperceptible	Certain	Negligible
8	634A Senja Road	Residential	2	2952	4174	3	Negligible	Imperceptible	Certain	Negligible
9	634B Senja Road	Residential	2	2948	4170	3	Negligible	Imperceptible	Certain	Negligible
10	634 Senja Road	Residential	2	2888	4084	3	Negligible	Imperceptible	Certain	Negligible
11	635B Senja Road	Residential	2	2864	4050	4	Negligible	Imperceptible	Certain	Negligible
12	635A Senja Road	Residential	2	2848	4028	4	Negligible	Imperceptible	Certain	Negligible
13	635 Senja Road	Residential	2	2839	4015	4	Negligible	Imperceptible	Certain	Negligible
14	250A Woodlands Road	Industrial	3	2484	3513	5	Negligible	Imperceptible	Certain	Negligible
15	243A Woodlands Road	Industrial	3	2268	3207	7	Negligible	Imperceptible	Certain	Negligible
16	3 Jln Gali Batu	Industrial	3	2189	3095	7	Negligible	Imperceptible	Certain	Negligible
17	5 Stagmont Rlng	Industrial	3	1885	2666	9	Negligible	Imperceptible	Certain	Negligible
18	38 Choa Chu Kang Street 64	Residential	2	1413	1999	13	Negligible	Imperceptible	Certain	Negligible
19	40 Choa Chu Kang Street 64	Residential	2	1415	2001	13	Negligible	Imperceptible	Certain	Negligible
20	36 Choa Chu Kang Street 64	Residential	2	1378	1949	13	Negligible	Imperceptible	Certain	Negligible
21	42 Choa Chu Kang Street 64	Residential	2	1368	1935	13	Negligible	Imperceptible	Certain	Negligible
22	44 Choa Chu Kang Street 64	Residential	2	1349	1909	13	Negligible	Imperceptible	Certain	Negligible
23	46 Choa Chu Kang Street 64	Residential	2	1327	1877	14	Negligible	Imperceptible	Certain	Negligible
24	692A Choa Chu Kang Cres	Residential	2	1234	1745	15	Negligible	Imperceptible	Certain	Negligible
25	656 Choa Chu Kang Cres	Residential	2	1209	1709	15	Negligible	Imperceptible	Certain	Negligible
26	691 Choa Chu Kang Cres	Recreational	3	1172	1657	15	Negligible	Imperceptible	Certain	Negligible
27	691A Choa Chu Kang Cres	Residential	2	1134	1604	16	Negligible	Imperceptible	Certain	Negligible
28	691B Choa Chu Kang Cres	Residential	2	1086	1537	16	Negligible	Imperceptible	Certain	Negligible
29	8 Sungei Kadut Avenue	Industrial	3	1201	1699	15	Negligible	Imperceptible	Certain	Negligible
30	690D Choa Chu Kang Cres	Residential	2	1031	1458	17	Negligible	Imperceptible	Certain	Negligible
31	690C Choa Chu Kang Cres	Residential	2	981	1388	17	Negligible	Imperceptible	Certain	Negligible
32	19 Sungei Kadut Avenue	Industrial	3	1011	1429	17	Negligible	Imperceptible	Certain	Negligible
33	14 Sungei Kadut Avenue	Industrial	3	1057	1495	17	Negligible	Imperceptible	Certain	Negligible
34	16 Sungei Kadut Avenue	Industrial	3	1027	1452	17	Negligible	Imperceptible	Certain	Negligible
35	18 Sungei Kadut Avenue	Industrial	3	979	1385	18	Negligible	Imperceptible	Certain	Negligible
36	20 Sungei Kadut Way	Industrial	3	951	1345	18	Negligible	Imperceptible	Certain	Negligible
37	2C Mandai Estate	Industrial	3	1016	1437	17	Negligible	Imperceptible	Certain	Negligible
38	22 Sungei Kadut Avenue	Industrial	3	890	1258	19	Negligible	Imperceptible	Certain	Negligible
39	32 Sungei Kadut Way	Industrial	3	669	947	22	Negligible	Imperceptible	Certain	Negligible
40	2B Mandai Estate	Industrial	3	975	1379	18	Negligible	Imperceptible	Certain	Negligible
41	20A Sungei Kadut Way	Industrial	3	566	800	25	Negligible	Imperceptible	Certain	Negligible

Detailed Ground-borne Noise Assessment Results

Rock Breaking and Excavation at Sunget Kadut Station
MIC=0.8 kg

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
42	20 Sungei Kadut Way	Industrial	3	546	772	25	Negligible	Imperceptible	Certain	Negligible
43	18 Sungei Kadut Way	Industrial	3	528	746	26	Negligible	Imperceptible	Certain	Negligible
44	2A Mandai Estate	Industrial	3	943	1334	18	Negligible	Imperceptible	Certain	Negligible
45	15 Sungei Kadut Way	Industrial	3	483	683	27	Negligible	Imperceptible	Certain	Negligible
46	5 Sungei Kadut Way	Industrial	3	420	594	29	Negligible	Imperceptible	Certain	Negligible
47	31 Sungei Kadut Avenue	Industrial	3	588	831	24	Negligible	Imperceptible	Certain	Negligible
48	45 Sungei Kadut Avenue	Industrial	3	368	521	30	Negligible	Imperceptible	Certain	Negligible
49	33 Sungei Kadut Avenue	Industrial	3	513	726	26	Negligible	Imperceptible	Certain	Negligible
50	39 Sungei Kadut Avenue	Industrial	3	389	550	30	Negligible	Imperceptible	Certain	Negligible
51	17 Sungei Kadut Way	Industrial	3	410	579	29	Negligible	Imperceptible	Certain	Negligible
52	48 Sungei Kadut Avenue	Industrial	3	283	401	34	Negligible	Imperceptible	Certain	Negligible
53	46 Sungei Kadut Avenue	Industrial	3	273	387	34	Negligible	Imperceptible	Certain	Negligible
54	23H Sungei Kadut Street 1	Industrial	3	230	325	36	Negligible	Imperceptible	Certain	Negligible
55	23F Sungei Kadut Street 1	Industrial	3	206	292	38	Negligible	Imperceptible	Certain	Negligible
56	21 Sungei Kadut Street 1	Industrial	3	317	448	32	Negligible	Imperceptible	Certain	Negligible
57	23A Sungei Kadut Street 1	Industrial	3	266	377	34	Negligible	Imperceptible	Certain	Negligible
58	15 Sungei Kadut Street 2	Industrial	3	83	119	50	Medium	Very Low	Certain	Minor
59	15 Sungei Kadut Street 2	Industrial	3	104	148	47	Low	Very Low	Certain	Minor
60	5 Sungei Kadut Street 2	Industrial	3	59	85	54	Medium	Very Low	Certain	Minor
61	8 Sungei Kadut Street 2	Industrial	3	158	224	41	Negligible	Imperceptible	Certain	Negligible
62	18 Sungei Kadut Street 2	Industrial	3	165	234	41	Negligible	Imperceptible	Certain	Negligible
63	8 Sungei Kadut Street 2	Industrial	3	172	243	40	Negligible	Imperceptible	Certain	Negligible
64	36 Sungei Kadut Street 2	Industrial	3	217	307	37	Negligible	Imperceptible	Certain	Negligible
65	38 Sungei Kadut Street 2	Industrial	3	234	332	36	Negligible	Imperceptible	Certain	Negligible
66	38 Sungei Kadut Street 2	Industrial	3	328	463	32	Negligible	Imperceptible	Certain	Negligible
67	25 Sungei Kadut Street 2	Industrial	3	372	526	30	Negligible	Imperceptible	Certain	Negligible
68	31 Sungei Kadut Street 2	Industrial	3	377	533	30	Negligible	Imperceptible	Certain	Negligible
69	31 Sungei Kadut Street 2	Industrial	3	398	564	29	Negligible	Imperceptible	Certain	Negligible
70	29 Sungei Kadut Street 2	Industrial	3	396	560	29	Negligible	Imperceptible	Certain	Negligible
71	29 Sungei Kadut Street 2	Industrial	3	401	567	29	Negligible	Imperceptible	Certain	Negligible
72	31 Sungei Kadut Street 2	Industrial	3	429	607	28	Negligible	Imperceptible	Certain	Negligible
73	29 Sungei Kadut Street 2	Industrial	3	445	630	28	Negligible	Imperceptible	Certain	Negligible
74	31 Sungei Kadut Street 2	Industrial	3	462	654	27	Negligible	Imperceptible	Certain	Negligible
75	29 Sungei Kadut Street 2	Industrial	3	449	635	28	Negligible	Imperceptible	Certain	Negligible
76	31 Sungei Kadut Street 2	Industrial	3	475	673	27	Negligible	Imperceptible	Certain	Negligible
77	7 Sungei Kadut Street 3	Industrial	3	494	699	26	Negligible	Imperceptible	Certain	Negligible
78	Beside 3 Sungei Kadut Street 3	Industrial	3	516	729	26	Negligible	Imperceptible	Certain	Negligible
79	3 Sungei Kadut Street 3	Industrial	3	492	696	26	Negligible	Imperceptible	Certain	Negligible
80	3 Sungei Kadut Street 3	Industrial	3	601	851	24	Negligible	Imperceptible	Certain	Negligible
81	Beside 3 Sungei Kadut Street 3	Industrial	3	596	843	24	Negligible	Imperceptible	Certain	Negligible
82	8 Sungei Kadut Street 3	Industrial	3	640	906	23	Negligible	Imperceptible	Certain	Negligible

Detailed Ground-borne Noise Assessment Results

Rock Breaking and Excavation at Sunget Kadut Station
MIC=0.8 kg

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
83	10 Sungei Kadut Street 3	Industrial	3	650	919	23	Negligible	Imperceptible	Certain	Negligible
84	10 Sungei Kadut Street 3	Industrial	3	646	913	23	Negligible	Imperceptible	Certain	Negligible
85	6 Sungei Kadut Street 3	Industrial	3	647	915	23	Negligible	Imperceptible	Certain	Negligible
86	25 Sungei Kadut Avenue	Place of Worship	2	801	1134	20	Negligible	Imperceptible	Certain	Negligible
87	337 Woodlands Road	Industrial	3	1821	2575	9	Negligible	Imperceptible	Certain	Negligible
88	Tennis Court Beside 46 Choa Chu Kang Street 64	Recreational	3	1309	1851	14	Negligible	Imperceptible	Certain	Negligible
89	692 Choa Chu Kang Cres	Residential	3	1265	1789	14	Negligible	Imperceptible	Certain	Negligible
90	7 Mandai Link	Industrial	3	818	1157	20	Negligible	Imperceptible	Certain	Negligible
91	12 Sungei Kadut Avenue	Industrial	3	1115	1577	16	Negligible	Imperceptible	Certain	Negligible
92	350 Woodlands Road	Industrial	3	1136	1606	16	Negligible	Imperceptible	Certain	Negligible
93	350 Woodlands Road	Industrial	3	1204	1703	15	Negligible	Imperceptible	Certain	Negligible
94	350 Woodlands Road	Industrial	3	1201	1698	15	Negligible	Imperceptible	Certain	Negligible
95	350 Woodlands Road	Industrial	3	1223	1730	15	Negligible	Imperceptible	Certain	Negligible
96	350 Woodlands Road	Industrial	3	1244	1760	14	Negligible	Imperceptible	Certain	Negligible
97	350 Woodlands Road	Industrial	3	1445	2044	12	Negligible	Imperceptible	Certain	Negligible
98	350 Woodlands Road	Industrial	3	1457	2061	12	Negligible	Imperceptible	Certain	Negligible
99	350 Woodlands Road	Industrial	3	1516	2143	12	Negligible	Imperceptible	Certain	Negligible
100	350 Woodlands Road	Industrial	3	1455	2058	12	Negligible	Imperceptible	Certain	Negligible
101	350 Woodlands Road	Industrial	3	1424	2014	13	Negligible	Imperceptible	Certain	Negligible
102	Building between 2A and 2B Mandai Estate	Industrial	3	964	1363	18	Negligible	Imperceptible	Certain	Negligible
103	Container Building along Gali Batu Close	Industrial	3	1158	1638	15	Negligible	Imperceptible	Certain	Negligible
104	689 Choa Chu Kand Drive	Industrial	3	924	1306	18	Negligible	Imperceptible	Certain	Negligible
105	632B Senja Road	Residential	2	3157	4464	2	Negligible	Imperceptible	Certain	Negligible
106	633C Senja Road	Residential	2	3122	4415	2	Negligible	Imperceptible	Certain	Negligible
107	9 Sungei Kadut Street 3	Industrial	3	502	709	26	Negligible	Imperceptible	Certain	Negligible
108	692B Choa Chu Kang Cres	Residential	2	1185	1676	15	Negligible	Imperceptible	Certain	Negligible
109	690A Choa Chu Kang Cres	Residential	2	943	1334	18	Negligible	Imperceptible	Certain	Negligible
110	32 Choa Chu Kang Street 64	Residential	2	1463	2070	12	Negligible	Imperceptible	Certain	Negligible
111	6D Mandai Estate	Industrial	3	1015	1435	17	Negligible	Imperceptible	Certain	Negligible
112	90 Mandai Estate	Industrial	3	1084	1533	16	Negligible	Imperceptible	Certain	Negligible
113	96 Mandai Estate	Industrial	3	1057	1494	17	Negligible	Imperceptible	Certain	Negligible
114	94 Mandai Estate	Industrial	3	1066	1508	16	Negligible	Imperceptible	Certain	Negligible
115	92 Mandai Estate	Industrial	3	1076	1521	16	Negligible	Imperceptible	Certain	Negligible
116	88 Mandai Estate	Industrial	3	1094	1547	16	Negligible	Imperceptible	Certain	Negligible
117	633D Senja Road	Residential	2	3151	4456	2	Negligible	Imperceptible	Certain	Negligible
118	West View Primary School	Educational Institution	2	3226	4562	2	Negligible	Imperceptible	Certain	Negligible

Detailed Ground-borne Noise Assessment Results

Rock Breaking and Excavation at Sunget Kadut Station
MIC=0.8 kg

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
119	180 Woodlands Road	Commercial	3	2605	3685	5	Negligible	Imperceptible	Certain	Negligible
120	663 Choa Chu Kang Cres	Residential	2	1030	1456	17	Negligible	Imperceptible	Certain	Negligible
121	662 Choa Chu Kang Cres	Residential	2	1085	1535	16	Negligible	Imperceptible	Certain	Negligible
122	668A Choa Chu Kang Cres	Residential	3	1059	1497	17	Negligible	Imperceptible	Certain	Negligible
123	664 Choa Chu Kang Cres	Residential	2	992	1403	17	Negligible	Imperceptible	Certain	Negligible
124	661 Choa Chu Kang Cres	Residential	2	1133	1602	16	Negligible	Imperceptible	Certain	Negligible
125	656 Choa Chu Kang Cres	Residential	3	1142	1615	16	Negligible	Imperceptible	Certain	Negligible
126	Beside 3 Sungei Kadut Street 3	Industrial	3	521	736	26	Negligible	Imperceptible	Certain	Negligible
127	4 Sungei Kadut Street 3	Industrial	3	657	930	23	Negligible	Imperceptible	Certain	Negligible
128	4 Sungei Kadut Street 3	Industrial	3	687	971	22	Negligible	Imperceptible	Certain	Negligible
129	4 Sungei Kadut Street 3	Industrial	3	663	938	23	Negligible	Imperceptible	Certain	Negligible
130	31 Sungei Kadut Street 2	Industrial	3	487	689	27	Negligible	Imperceptible	Certain	Negligible
131	38 Sungei Kadut Street 2	Industrial	3	276	391	34	Negligible	Imperceptible	Certain	Negligible
132	6 Sungei Kadut Street 2	Industrial	3	208	294	38	Negligible	Imperceptible	Certain	Negligible
133	6 Sungei Kadut Street 2	Industrial	3	189	267	39	Negligible	Imperceptible	Certain	Negligible
134	27 Sungei Kadut Street 1	Industrial	3	165	233	41	Negligible	Imperceptible	Certain	Negligible
135	27 Sungei Kadut Street 1	Industrial	3	157	223	41	Negligible	Imperceptible	Certain	Negligible
136	27 Sungei Kadut Street 1	Industrial	3	161	228	41	Negligible	Imperceptible	Certain	Negligible
137	27 Sungei Kadut Street 1	Industrial	3	192	272	39	Negligible	Imperceptible	Certain	Negligible
138	27 Sungei Kadut Street 1	Industrial	3	202	285	38	Negligible	Imperceptible	Certain	Negligible
139	27 Sungei Kadut Street 1	Industrial	3	261	370	35	Negligible	Imperceptible	Certain	Negligible
140	25 Sungei Kadut Street 1	Industrial	3	267	378	34	Negligible	Imperceptible	Certain	Negligible
141	Beside 25A Sungei Kadut Street 1	Industrial	3	207	293	38	Negligible	Imperceptible	Certain	Negligible
142	23 Sungei Kadut Street 1	Industrial	3	282	400	34	Negligible	Imperceptible	Certain	Negligible
143	36 Sungei Kadut Street 1	Industrial	3	396	560	29	Negligible	Imperceptible	Certain	Negligible
144	Beside 34 Sungei Kadut Street 1	Industrial	3	426	602	28	Negligible	Imperceptible	Certain	Negligible
145	6A Mandai Estate	Industrial	3	982	1388	17	Negligible	Imperceptible	Certain	Negligible
146	566 Woodlands Road	Commercial	3	913	1292	18	Negligible	Imperceptible	Certain	Negligible
147	350 Woodlands Road	Industrial	3	1560	2206	11	Negligible	Imperceptible	Certain	Negligible

Detailed Ground-borne Noise Assessment Results

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
1	21A Woodlands Road	Industrial	3	1591	2250	0	Negligible	Imperceptible	Possible	Negligible
2	632 Senja Road	Residential	2	1522	2153	0	Negligible	Imperceptible	Possible	Negligible
3	633 Senja Road	Residential	2	1525	2157	0	Negligible	Imperceptible	Possible	Negligible
4	633B Senja Road	Residential	2	1487	2103	0	Negligible	Imperceptible	Possible	Negligible
5	632A Senja Road	Residential	2	1444	2041	0	Negligible	Imperceptible	Possible	Negligible
6	633A Senja Road	Residential	2	1442	2039	0	Negligible	Imperceptible	Possible	Negligible
7	634C Senja Road	Residential	3	1424	2013	0	Negligible	Imperceptible	Possible	Negligible
8	634A Senja Road	Residential	2	1388	1963	0	Negligible	Imperceptible	Possible	Negligible
9	634B Senja Road	Residential	2	1380	1951	0	Negligible	Imperceptible	Possible	Negligible
10	634 Senja Road	Residential	2	1324	1872	0	Negligible	Imperceptible	Possible	Negligible
11	635B Senja Road	Residential	2	1298	1835	0	Negligible	Imperceptible	Possible	Negligible
12	635A Senja Road	Residential	2	1285	1818	0	Negligible	Imperceptible	Possible	Negligible
13	635 Senja Road	Residential	2	1273	1801	0	Negligible	Imperceptible	Possible	Negligible
14	250A Woodlands Road	Industrial	3	945	1336	0	Negligible	Imperceptible	Possible	Negligible
15	243A Woodlands Road	Industrial	3	757	1071	0	Negligible	Imperceptible	Possible	Negligible
16	3 Jln Gali Batu	Industrial	3	643	910	0	Negligible	Imperceptible	Possible	Negligible
17	5 Stagmont RIng	Industrial	3	394	557	0	Negligible	Imperceptible	Possible	Negligible
18	38 Choa Chu Kang Street 64	Residential	2	68	97	15	Negligible	Imperceptible	Possible	Negligible
19	40 Choa Chu Kang Street 64	Residential	2	39	55	25	Negligible	Imperceptible	Possible	Negligible
20	36 Choa Chu Kang Street 64	Residential	2	81	114	12	Negligible	Imperceptible	Possible	Negligible
21	42 Choa Chu Kang Street 64	Residential	2	15	22	42	Medium	Low	Possible	Minor
22	44 Choa Chu Kang Street 64	Residential	2	26	36	33	Negligible	Imperceptible	Possible	Negligible
23	46 Choa Chu Kang Street 64	Residential	2	36	51	27	Negligible	Imperceptible	Possible	Negligible
24	692A Choa Chu Kang Cres	Residential	2	53	75	20	Negligible	Imperceptible	Possible	Negligible
25	656 Choa Chu Kang Cres	Residential	2	81	114	12	Negligible	Imperceptible	Possible	Negligible
26	691 Choa Chu Kang Cres	Recreational	3	41	58	24	Negligible	Imperceptible	Possible	Negligible
27	691A Choa Chu Kang Cres	Residential	2	20	28	37	Low	Very Low	Possible	Minor
28	691B Choa Chu Kang Cres	Residential	2	1	2	50	High	Medium	Possible	Moderate
29	8 Sungei Kadut Avenue	Industrial	3	81	114	12	Negligible	Imperceptible	Possible	Negligible
30	690D Choa Chu Kang Cres	Residential	2	2	4	50	High	Medium	Possible	Moderate
31	690C Choa Chu Kang Cres	Residential	2	61	87	17	Negligible	Imperceptible	Possible	Negligible
32	19 Sungei Kadut Avenue	Industrial	3	177	250	0	Negligible	Imperceptible	Possible	Negligible
33	14 Sungei Kadut Avenue	Industrial	3	206	291	0	Negligible	Imperceptible	Possible	Negligible
34	16 Sungei Kadut Avenue	Industrial	3	157	222	0	Negligible	Imperceptible	Possible	Negligible
35	18 Sungei Kadut Avenue	Industrial	3	121	172	5	Negligible	Imperceptible	Possible	Negligible
36	20 Sungei Kadut Way	Industrial	3	96	135	9	Negligible	Imperceptible	Possible	Negligible
37	2C Mandai Estate	Industrial	3	11	16	48	Low	Very Low	Possible	Minor
38	22 Sungei Kadut Avenue	Industrial	3	53	74	20	Negligible	Imperceptible	Possible	Negligible
39	32 Sungei Kadut Way	Industrial	3	220	311	0	Negligible	Imperceptible	Possible	Negligible
40	2B Mandai Estate	Industrial	3	1	1	50	Medium	Very Low	Possible	Minor
41	20A Sungei Kadut Way	Industrial	3	216	305	0	Negligible	Imperceptible	Possible	Negligible

Detailed Ground-borne Noise Assessment Results

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
42	20 Sungei Kadut Way	Industrial	3	209	296	0	Negligible	Imperceptible	Possible	Negligible
43	18 Sungei Kadut Way	Industrial	3	210	297	0	Negligible	Imperceptible	Possible	Negligible
44	2A Mandai Estate	Industrial	3	5	8	50	Medium	Very Low	Possible	Minor
45	15 Sungei Kadut Way	Industrial	3	86	122	11	Negligible	Imperceptible	Possible	Negligible
46	5 Sungei Kadut Way	Industrial	3	130	184	4	Negligible	Imperceptible	Possible	Negligible
47	31 Sungei Kadut Avenue	Industrial	3	28	40	31	Negligible	Imperceptible	Possible	Negligible
48	45 Sungei Kadut Avenue	Industrial	3	103	146	8	Negligible	Imperceptible	Possible	Negligible
49	33 Sungei Kadut Avenue	Industrial	3	27	38	32	Negligible	Imperceptible	Possible	Negligible
50	39 Sungei Kadut Avenue	Industrial	3	23	33	35	Negligible	Imperceptible	Possible	Negligible
51	17 Sungei Kadut Way	Industrial	3	20	28	37	Negligible	Imperceptible	Possible	Negligible
52	48 Sungei Kadut Avenue	Industrial	3	66	93	16	Negligible	Imperceptible	Possible	Negligible
53	46 Sungei Kadut Avenue	Industrial	3	34	49	27	Negligible	Imperceptible	Possible	Negligible
54	23H Sungei Kadut Street 1	Industrial	3	44	62	23	Negligible	Imperceptible	Possible	Negligible
55	23F Sungei Kadut Street 1	Industrial	3	9	13	50	Medium	Very Low	Possible	Minor
56	21 Sungei Kadut Street 1	Industrial	3	68	96	15	Negligible	Imperceptible	Possible	Negligible
57	23A Sungei Kadut Street 1	Industrial	3	29	40	31	Negligible	Imperceptible	Possible	Negligible
58	15 Sungei Kadut Street 2	Industrial	3	28	40	31	Negligible	Imperceptible	Possible	Negligible
59	15 Sungei Kadut Street 2	Industrial	3	27	38	32	Negligible	Imperceptible	Possible	Negligible
60	5 Sungei Kadut Street 2	Industrial	3	9	13	50	Medium	Very Low	Possible	Minor
61	8 Sungei Kadut Street 2	Industrial	3	10	14	50	Medium	Very Low	Possible	Minor
62	18 Sungei Kadut Street 2	Industrial	3	12	17	46	Low	Very Low	Possible	Minor
63	8 Sungei Kadut Street 2	Industrial	3	7	9	50	Medium	Very Low	Possible	Minor
64	36 Sungei Kadut Street 2	Industrial	3	1	2	50	Medium	Very Low	Possible	Minor
65	38 Sungei Kadut Street 2	Industrial	3	3	4	50	Medium	Very Low	Possible	Minor
66	38 Sungei Kadut Street 2	Industrial	3	26	37	32	Negligible	Imperceptible	Possible	Negligible
67	25 Sungei Kadut Street 2	Industrial	3	7	10	50	Medium	Very Low	Possible	Minor
68	31 Sungei Kadut Street 2	Industrial	3	46	66	22	Negligible	Imperceptible	Possible	Negligible
69	31 Sungei Kadut Street 2	Industrial	3	64	90	16	Negligible	Imperceptible	Possible	Negligible
70	29 Sungei Kadut Street 2	Industrial	3	8	12	50	Medium	Very Low	Possible	Minor
71	29 Sungei Kadut Street 2	Industrial	3	37	52	26	Negligible	Imperceptible	Possible	Negligible
72	31 Sungei Kadut Street 2	Industrial	3	55	77	19	Negligible	Imperceptible	Possible	Negligible
73	29 Sungei Kadut Street 2	Industrial	3	2	4	50	Medium	Very Low	Possible	Minor
74	31 Sungei Kadut Street 2	Industrial	3	45	63	23	Negligible	Imperceptible	Possible	Negligible
75	29 Sungei Kadut Street 2	Industrial	3	8	11	50	Medium	Very Low	Possible	Minor
76	31 Sungei Kadut Street 2	Industrial	3	38	54	26	Negligible	Imperceptible	Possible	Negligible
77	7 Sungei Kadut Street 3	Industrial	3	47	67	22	Negligible	Imperceptible	Possible	Negligible
78	Beside 3 Sungei Kadut Street 3	Industrial	3	45	64	23	Negligible	Imperceptible	Possible	Negligible
79	3 Sungei Kadut Street 3	Industrial	3	4	6	50	Medium	Very Low	Possible	Minor
80	3 Sungei Kadut Street 3	Industrial	3	6	8	50	Medium	Very Low	Possible	Minor
81	Beside 3 Sungei Kadut Street 3	Industrial	3	44	62	23	Negligible	Imperceptible	Possible	Negligible
82	8 Sungei Kadut Street 3	Industrial	3	30	43	30	Negligible	Imperceptible	Possible	Negligible

Detailed Ground-borne Noise Assessment Results

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
83	10 Sungei Kadut Street 3	Industrial	3	68	96	15	Negligible	Imperceptible	Possible	Negligible
84	10 Sungei Kadut Street 3	Industrial	3	46	64	22	Negligible	Imperceptible	Possible	Negligible
85	6 Sungei Kadut Street 3	Industrial	3	36	52	26	Negligible	Imperceptible	Possible	Negligible
86	25 Sungei Kadut Avenue	Place of Worship	2	127	180	4	Negligible	Imperceptible	Possible	Negligible
87	337 Woodlands Road	Industrial	3	317	448	0	Negligible	Imperceptible	Possible	Negligible
88	Tennis Court Beside 46 Choa Chu Kang Street 64	Recreational	3	67	95	15	Negligible	Imperceptible	Possible	Negligible
89	692 Choa Chu Kang Cres	Residential	3	6	8	50	Medium	Very Low	Possible	Minor
90	7 Mandai Link	Industrial	3	62	88	17	Negligible	Imperceptible	Possible	Negligible
91	12 Sungei Kadut Avenue	Industrial	3	113	160	6	Negligible	Imperceptible	Possible	Negligible
92	350 Woodlands Road	Industrial	3	128	181	4	Negligible	Imperceptible	Possible	Negligible
93	350 Woodlands Road	Industrial	3	191	269	0	Negligible	Imperceptible	Possible	Negligible
94	350 Woodlands Road	Industrial	3	217	308	0	Negligible	Imperceptible	Possible	Negligible
95	350 Woodlands Road	Industrial	3	251	355	0	Negligible	Imperceptible	Possible	Negligible
96	350 Woodlands Road	Industrial	3	255	360	0	Negligible	Imperceptible	Possible	Negligible
97	350 Woodlands Road	Industrial	3	181	256	0	Negligible	Imperceptible	Possible	Negligible
98	350 Woodlands Road	Industrial	3	140	198	2	Negligible	Imperceptible	Possible	Negligible
99	350 Woodlands Road	Industrial	3	140	199	2	Negligible	Imperceptible	Possible	Negligible
100	350 Woodlands Road	Industrial	3	156	221	0	Negligible	Imperceptible	Possible	Negligible
101	350 Woodlands Road	Industrial	3	60	85	17	Negligible	Imperceptible	Possible	Negligible
102	Building between 2A and 2B Mandai Estate	Industrial	3	8	11	50	Medium	Very Low	Possible	Minor
103	Container Building along Gali Batu Close	Industrial	3	120	169	5	Negligible	Imperceptible	Possible	Negligible
104	689 Choa Chu Kand Drive	Industrial	3	9	13	50	Medium	Very Low	Possible	Minor
105	632B Senja Road	Residential	2	1587	2244	0	Negligible	Imperceptible	Possible	Negligible
106	633C Senja Road	Residential	2	1551	2194	0	Negligible	Imperceptible	Possible	Negligible
107	9 Sungei Kadut Street 3	Industrial	3	93	131	10	Negligible	Imperceptible	Possible	Negligible
108	692B Choa Chu Kang Cres	Residential	2	50	71	21	Negligible	Imperceptible	Possible	Negligible
109	690A Choa Chu Kang Cres	Residential	2	84	119	11	Negligible	Imperceptible	Possible	Negligible
110	32 Choa Chu Kang Street 64	Residential	2	93	131	10	Negligible	Imperceptible	Possible	Negligible
111	6D Mandai Estate	Industrial	3	89	126	10	Negligible	Imperceptible	Possible	Negligible
112	90 Mandai Estate	Industrial	3	88	125	11	Negligible	Imperceptible	Possible	Negligible
113	96 Mandai Estate	Industrial	3	83	118	12	Negligible	Imperceptible	Possible	Negligible
114	94 Mandai Estate	Industrial	3	84	119	11	Negligible	Imperceptible	Possible	Negligible
115	92 Mandai Estate	Industrial	3	86	122	11	Negligible	Imperceptible	Possible	Negligible
116	88 Mandai Estate	Industrial	3	91	129	10	Negligible	Imperceptible	Possible	Negligible
117	633D Senja Road	Residential	2	1579	2234	0	Negligible	Imperceptible	Possible	Negligible
118	West View Primary School	Educational Institution	2	1654	2339	0	Negligible	Imperceptible	Possible	Negligible

Detailed Ground-borne Noise Assessment Results

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
119	180 Woodlands Road	Commercial	3	1048	1482	0	Negligible	Imperceptible	Possible	Negligible
120	663 Choa Chu Kang Cres	Residential	2	39	57	25	Negligible	Imperceptible	Possible	Negligible
121	662 Choa Chu Kang Cres	Residential	2	29	44	30	Negligible	Imperceptible	Possible	Negligible
122	668A Choa Chu Kang Cres	Residential	3	67	96	15	Negligible	Imperceptible	Possible	Negligible
123	664 Choa Chu Kang Cres	Residential	2	87	123	11	Negligible	Imperceptible	Possible	Negligible
124	661 Choa Chu Kang Cres	Residential	2	60	85	18	Negligible	Imperceptible	Possible	Negligible
125	656 Choa Chu Kang Cres	Residential	3	88	125	11	Negligible	Imperceptible	Possible	Negligible
126	Beside 3 Sungei Kadut Street 3	Industrial	3	76	107	13	Negligible	Imperceptible	Possible	Negligible
127	4 Sungei Kadut Street 3	Industrial	3	58	82	18	Negligible	Imperceptible	Possible	Negligible
128	4 Sungei Kadut Street 3	Industrial	3	81	114	12	Negligible	Imperceptible	Possible	Negligible
129	4 Sungei Kadut Street 3	Industrial	3	85	120	11	Negligible	Imperceptible	Possible	Negligible
130	31 Sungei Kadut Street 2	Industrial	3	84	119	11	Negligible	Imperceptible	Possible	Negligible
131	38 Sungei Kadut Street 2	Industrial	3	66	93	16	Negligible	Imperceptible	Possible	Negligible
132	6 Sungei Kadut Street 2	Industrial	3	82	116	12	Negligible	Imperceptible	Possible	Negligible
133	6 Sungei Kadut Street 2	Industrial	3	57	80	19	Negligible	Imperceptible	Possible	Negligible
134	27 Sungei Kadut Street 1	Industrial	3	81	115	12	Negligible	Imperceptible	Possible	Negligible
135	27 Sungei Kadut Street 1	Industrial	3	86	122	11	Negligible	Imperceptible	Possible	Negligible
136	27 Sungei Kadut Street 1	Industrial	3	12	17	47	Low	Very Low	Possible	Minor
137	27 Sungei Kadut Street 1	Industrial	3	72	102	14	Negligible	Imperceptible	Possible	Negligible
138	27 Sungei Kadut Street 1	Industrial	3	31	44	29	Negligible	Imperceptible	Possible	Negligible
139	27 Sungei Kadut Street 1	Industrial	3	83	118	12	Negligible	Imperceptible	Possible	Negligible
140	25 Sungei Kadut Street 1	Industrial	3	68	96	15	Negligible	Imperceptible	Possible	Negligible
141	Beside 25A Sungei Kadut Street 1	Industrial	3	7	11	50	Medium	Very Low	Possible	Minor
142	23 Sungei Kadut Street 1	Industrial	3	41	58	24	Negligible	Imperceptible	Possible	Negligible
143	36 Sungei Kadut Street 1	Industrial	3	131	186	3	Negligible	Imperceptible	Possible	Negligible
144	Beside 34 Sungei Kadut Street 1	Industrial	3	42	60	24	Negligible	Imperceptible	Possible	Negligible
145	6A Mandai Estate	Industrial	3	103	146	8	Negligible	Imperceptible	Possible	Negligible
146	566 Woodlands Road	Commercial	3	96	135	9	Negligible	Imperceptible	Possible	Negligible
147	350 Woodlands Road	Industrial	3	59	84	18	Negligible	Imperceptible	Possible	Negligible

Detailed Ground-borne Noise Assessment Results

Vibratory Pile Driver

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
1	21A Woodlands Road	Industrial	3	0	1	59	High	Low	Possible	Minor
2	632 Senja Road	Residential	2	18	25	51	High	Medium	Possible	Moderate
3	633 Senja Road	Residential	2	66	94	36	Low	Very Low	Possible	Minor
4	633B Senja Road	Residential	2	43	61	41	Medium	Low	Possible	Minor
5	632A Senja Road	Residential	2	18	25	51	High	Medium	Possible	Moderate
6	633A Senja Road	Residential	2	50	72	39	Low	Very Low	Possible	Minor
7	634C Senja Road	Residential	3	41	59	41	Negligible	Imperceptible	Possible	Negligible
8	634A Senja Road	Residential	2	14	20	54	High	Medium	Possible	Moderate
9	634B Senja Road	Residential	2	72	101	35	Negligible	Imperceptible	Possible	Negligible
10	634 Senja Road	Residential	2	17	23	52	High	Medium	Possible	Moderate
11	635B Senja Road	Residential	2	82	117	33	Negligible	Imperceptible	Possible	Negligible
12	635A Senja Road	Residential	2	30	43	45	High	Medium	Possible	Moderate
13	635 Senja Road	Residential	2	94	134	31	Negligible	Imperceptible	Possible	Negligible
14	250A Woodlands Road	Industrial	3	68	96	35	Negligible	Imperceptible	Possible	Negligible
15	243A Woodlands Road	Industrial	3	296	418	17	Negligible	Imperceptible	Possible	Negligible
16	3 Jln Gali Batu	Industrial	3	270	382	18	Negligible	Imperceptible	Possible	Negligible
17	5 Stagmont RIng	Industrial	3	78	111	34	Negligible	Imperceptible	Possible	Negligible
18	38 Choa Chu Kang Street 64	Residential	2	68	97	35	Low	Very Low	Possible	Minor
19	40 Choa Chu Kang Street 64	Residential	2	39	55	42	Medium	Low	Possible	Minor
20	36 Choa Chu Kang Street 64	Residential	2	81	114	33	Negligible	Imperceptible	Possible	Negligible
21	42 Choa Chu Kang Street 64	Residential	2	15	22	54	High	Medium	Possible	Moderate
22	44 Choa Chu Kang Street 64	Residential	2	25	36	47	High	Medium	Possible	Moderate
23	46 Choa Chu Kang Street 64	Residential	2	36	51	43	Medium	Low	Possible	Minor
24	692A Choa Chu Kang Cres	Residential	2	53	75	38	Low	Very Low	Possible	Minor
25	656 Choa Chu Kang Cres	Residential	2	81	115	33	Negligible	Imperceptible	Possible	Negligible
26	691 Choa Chu Kang Cres	Recreational	3	41	58	41	Negligible	Imperceptible	Possible	Negligible
27	691A Choa Chu Kang Cres	Residential	2	20	28	50	High	Medium	Possible	Moderate
28	691B Choa Chu Kang Cres	Residential	2	1	2	59	High	Medium	Possible	Moderate
29	8 Sungei Kadut Avenue	Industrial	3	64	91	36	Negligible	Imperceptible	Possible	Negligible
30	690D Choa Chu Kang Cres	Residential	2	2	4	59	High	Medium	Possible	Moderate
31	690C Choa Chu Kang Cres	Residential	2	61	87	37	Low	Very Low	Possible	Minor
32	19 Sungei Kadut Avenue	Industrial	3	177	250	24	Negligible	Imperceptible	Possible	Negligible
33	14 Sungei Kadut Avenue	Industrial	3	50	70	39	Negligible	Imperceptible	Possible	Negligible
34	16 Sungei Kadut Avenue	Industrial	3	46	65	40	Negligible	Imperceptible	Possible	Negligible
35	18 Sungei Kadut Avenue	Industrial	3	89	125	32	Negligible	Imperceptible	Possible	Negligible
36	20 Sungei Kadut Way	Industrial	3	93	131	31	Negligible	Imperceptible	Possible	Negligible
37	2C Mandai Estate	Industrial	3	14	20	54	High	Low	Possible	Minor
38	22 Sungei Kadut Avenue	Industrial	3	57	81	37	Negligible	Imperceptible	Possible	Negligible
39	32 Sungei Kadut Way	Industrial	3	40	57	42	Negligible	Imperceptible	Possible	Negligible
40	2B Mandai Estate	Industrial	3	4	6	59	High	Low	Possible	Minor
41	20A Sungei Kadut Way	Industrial	3	2	4	59	High	Low	Possible	Minor

Detailed Ground-borne Noise Assessment Results

Vibratory Pile Driver

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
42	20 Sungei Kadut Way	Industrial	3	34	48	44	Negligible	Imperceptible	Possible	Negligible
43	18 Sungei Kadut Way	Industrial	3	70	100	35	Negligible	Imperceptible	Possible	Negligible
44	2A Mandai Estate	Industrial	3	5	7	59	High	Low	Possible	Minor
45	15 Sungei Kadut Way	Industrial	3	12	17	56	High	Low	Possible	Minor
46	5 Sungei Kadut Way	Industrial	3	87	122	32	Negligible	Imperceptible	Possible	Negligible
47	31 Sungei Kadut Avenue	Industrial	3	28	39	46	Low	Very Low	Possible	Minor
48	45 Sungei Kadut Avenue	Industrial	3	49	70	39	Negligible	Imperceptible	Possible	Negligible
49	33 Sungei Kadut Avenue	Industrial	3	28	39	46	Low	Very Low	Possible	Minor
50	39 Sungei Kadut Avenue	Industrial	3	29	41	46	Low	Very Low	Possible	Minor
51	17 Sungei Kadut Way	Industrial	3	26	37	47	Low	Very Low	Possible	Minor
52	48 Sungei Kadut Avenue	Industrial	3	66	93	36	Negligible	Imperceptible	Possible	Negligible
53	46 Sungei Kadut Avenue	Industrial	3	18	25	52	Medium	Very Low	Possible	Minor
54	23H Sungei Kadut Street 1	Industrial	3	44	62	41	Negligible	Imperceptible	Possible	Negligible
55	23F Sungei Kadut Street 1	Industrial	3	9	13	59	High	Low	Possible	Minor
56	21 Sungei Kadut Street 1	Industrial	3	6	9	59	High	Low	Possible	Minor
57	23A Sungei Kadut Street 1	Industrial	3	0	1	59	High	Low	Possible	Minor
58	15 Sungei Kadut Street 2	Industrial	3	28	40	46	Low	Very Low	Possible	Minor
59	15 Sungei Kadut Street 2	Industrial	3	27	38	47	Low	Very Low	Possible	Minor
60	5 Sungei Kadut Street 2	Industrial	3	9	13	59	High	Low	Possible	Minor
61	8 Sungei Kadut Street 2	Industrial	3	10	14	59	High	Low	Possible	Minor
62	18 Sungei Kadut Street 2	Industrial	3	12	17	56	High	Low	Possible	Minor
63	8 Sungei Kadut Street 2	Industrial	3	7	9	59	High	Low	Possible	Minor
64	36 Sungei Kadut Street 2	Industrial	3	1	2	59	High	Low	Possible	Minor
65	38 Sungei Kadut Street 2	Industrial	3	3	4	59	High	Low	Possible	Minor
66	38 Sungei Kadut Street 2	Industrial	3	26	37	47	Low	Very Low	Possible	Minor
67	25 Sungei Kadut Street 2	Industrial	3	7	10	59	High	Low	Possible	Minor
68	31 Sungei Kadut Street 2	Industrial	3	46	66	40	Negligible	Imperceptible	Possible	Negligible
69	31 Sungei Kadut Street 2	Industrial	3	64	90	36	Negligible	Imperceptible	Possible	Negligible
70	29 Sungei Kadut Street 2	Industrial	3	8	12	59	High	Low	Possible	Minor
71	29 Sungei Kadut Street 2	Industrial	3	37	52	43	Negligible	Imperceptible	Possible	Negligible
72	31 Sungei Kadut Street 2	Industrial	3	54	77	38	Negligible	Imperceptible	Possible	Negligible
73	29 Sungei Kadut Street 2	Industrial	3	2	4	59	High	Low	Possible	Minor
74	31 Sungei Kadut Street 2	Industrial	3	44	63	40	Negligible	Imperceptible	Possible	Negligible
75	29 Sungei Kadut Street 2	Industrial	3	8	11	59	High	Low	Possible	Minor
76	31 Sungei Kadut Street 2	Industrial	3	38	54	42	Negligible	Imperceptible	Possible	Negligible
77	7 Sungei Kadut Street 3	Industrial	3	47	67	40	Negligible	Imperceptible	Possible	Negligible
78	Beside 3 Sungei Kadut Street 3	Industrial	3	45	64	40	Negligible	Imperceptible	Possible	Negligible
79	3 Sungei Kadut Street 3	Industrial	3	4	6	59	High	Low	Possible	Minor
80	3 Sungei Kadut Street 3	Industrial	3	6	8	59	High	Low	Possible	Minor
81	Beside 3 Sungei Kadut Street 3	Industrial	3	44	62	41	Negligible	Imperceptible	Possible	Negligible
82	8 Sungei Kadut Street 3	Industrial	3	30	43	45	Low	Very Low	Possible	Minor

Detailed Ground-borne Noise Assessment Results

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
83	10 Sungei Kadut Street 3	Industrial	3	68	96	35	Negligible	Imperceptible	Possible	Negligible
84	10 Sungei Kadut Street 3	Industrial	3	46	65	40	Negligible	Imperceptible	Possible	Negligible
85	6 Sungei Kadut Street 3	Industrial	3	36	52	43	Negligible	Imperceptible	Possible	Negligible
86	25 Sungei Kadut Avenue	Place of Worship	2	111	157	29	Negligible	Imperceptible	Possible	Negligible
87	337 Woodlands Road	Industrial	3	0	1	59	High	Low	Possible	Minor
88	Tennis Court Beside 46 Choa Chu Kang Street 64	Recreational	3	67	95	35	Negligible	Imperceptible	Possible	Negligible
89	692 Choa Chu Kang Cres	Residential	3	5	8	59	High	Low	Possible	Minor
90	7 Mandai Link	Industrial	3	55	78	38	Negligible	Imperceptible	Possible	Negligible
91	12 Sungei Kadut Avenue	Industrial	3	68	97	35	Negligible	Imperceptible	Possible	Negligible
92	350 Woodlands Road	Industrial	3	0	0	59	High	Low	Possible	Minor
93	350 Woodlands Road	Industrial	3	0	0	59	High	Low	Possible	Minor
94	350 Woodlands Road	Industrial	3	1	1	59	High	Low	Possible	Minor
95	350 Woodlands Road	Industrial	3	0	0	59	High	Low	Possible	Minor
96	350 Woodlands Road	Industrial	3	0	0	59	High	Low	Possible	Minor
97	350 Woodlands Road	Industrial	3	62	88	36	Negligible	Imperceptible	Possible	Negligible
98	350 Woodlands Road	Industrial	3	51	72	39	Negligible	Imperceptible	Possible	Negligible
99	350 Woodlands Road	Industrial	3	91	128	32	Negligible	Imperceptible	Possible	Negligible
100	350 Woodlands Road	Industrial	3	71	101	35	Negligible	Imperceptible	Possible	Negligible
101	350 Woodlands Road	Industrial	3	36	51	43	Negligible	Imperceptible	Possible	Negligible
102	Building between 2A and 2B Mandai Estate	Industrial	3	5	8	59	High	Low	Possible	Minor
103	Container Building along Gali Batu Close	Industrial	3	51	73	39	Negligible	Imperceptible	Possible	Negligible
104	689 Choa Chu Kand Drive	Industrial	3	9	13	59	High	Low	Possible	Minor
105	632B Senja Road	Residential	2	25	35	47	High	Medium	Possible	Moderate
106	633C Senja Road	Residential	2	65	92	36	Low	Very Low	Possible	Minor
107	9 Sungei Kadut Street 3	Industrial	3	93	131	31	Negligible	Imperceptible	Possible	Negligible
108	692B Choa Chu Kang Cres	Residential	2	50	71	39	Low	Very Low	Possible	Minor
109	690A Choa Chu Kang Cres	Residential	2	84	119	33	Negligible	Imperceptible	Possible	Negligible
110	32 Choa Chu Kang Street 64	Residential	2	93	131	31	Negligible	Imperceptible	Possible	Negligible
111	6D Mandai Estate	Industrial	3	88	124	32	Negligible	Imperceptible	Possible	Negligible
112	90 Mandai Estate	Industrial	3	91	128	32	Negligible	Imperceptible	Possible	Negligible
113	96 Mandai Estate	Industrial	3	86	122	32	Negligible	Imperceptible	Possible	Negligible
114	94 Mandai Estate	Industrial	3	87	123	32	Negligible	Imperceptible	Possible	Negligible
115	92 Mandai Estate	Industrial	3	89	126	32	Negligible	Imperceptible	Possible	Negligible
116	88 Mandai Estate	Industrial	3	93	131	31	Negligible	Imperceptible	Possible	Negligible
117	633D Senja Road	Residential	2	82	117	33	Negligible	Imperceptible	Possible	Negligible
118	West View Primary School	Educational Institution	2	50	71	39	Medium	Low	Possible	Minor

Detailed Ground-borne Noise Assessment Results

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
119	180 Woodlands Road	Commercial	3	48	69	39	Negligible	Imperceptible	Possible	Negligible
120	663 Choa Chu Kang Cres	Residential	2	39	57	42	Medium	Low	Possible	Minor
121	662 Choa Chu Kang Cres	Residential	2	29	44	46	High	Medium	Possible	Moderate
122	668A Choa Chu Kang Cres	Residential	3	67	96	35	Negligible	Imperceptible	Possible	Negligible
123	664 Choa Chu Kang Cres	Residential	2	87	124	32	Negligible	Imperceptible	Possible	Negligible
124	661 Choa Chu Kang Cres	Residential	2	60	85	37	Low	Very Low	Possible	Minor
125	656 Choa Chu Kang Cres	Residential	3	88	125	32	Negligible	Imperceptible	Possible	Negligible
126	Beside 3 Sungei Kadut Street 3	Industrial	3	76	107	34	Negligible	Imperceptible	Possible	Negligible
127	4 Sungei Kadut Street 3	Industrial	3	58	82	37	Negligible	Imperceptible	Possible	Negligible
128	4 Sungei Kadut Street 3	Industrial	3	81	114	33	Negligible	Imperceptible	Possible	Negligible
129	4 Sungei Kadut Street 3	Industrial	3	85	120	33	Negligible	Imperceptible	Possible	Negligible
130	31 Sungei Kadut Street 2	Industrial	3	84	119	33	Negligible	Imperceptible	Possible	Negligible
131	38 Sungei Kadut Street 2	Industrial	3	65	93	36	Negligible	Imperceptible	Possible	Negligible
132	6 Sungei Kadut Street 2	Industrial	3	82	116	33	Negligible	Imperceptible	Possible	Negligible
133	6 Sungei Kadut Street 2	Industrial	3	57	80	37	Negligible	Imperceptible	Possible	Negligible
134	27 Sungei Kadut Street 1	Industrial	3	81	115	33	Negligible	Imperceptible	Possible	Negligible
135	27 Sungei Kadut Street 1	Industrial	3	86	122	32	Negligible	Imperceptible	Possible	Negligible
136	27 Sungei Kadut Street 1	Industrial	3	12	17	57	High	Low	Possible	Minor
137	27 Sungei Kadut Street 1	Industrial	3	72	102	35	Negligible	Imperceptible	Possible	Negligible
138	27 Sungei Kadut Street 1	Industrial	3	31	44	45	Negligible	Imperceptible	Possible	Negligible
139	27 Sungei Kadut Street 1	Industrial	3	83	118	33	Negligible	Imperceptible	Possible	Negligible
140	25 Sungei Kadut Street 1	Industrial	3	68	96	35	Negligible	Imperceptible	Possible	Negligible
141	Beside 25A Sungei Kadut Street 1	Industrial	3	7	11	59	High	Low	Possible	Minor
142	23 Sungei Kadut Street 1	Industrial	3	33	48	44	Negligible	Imperceptible	Possible	Negligible
143	36 Sungei Kadut Street 1	Industrial	3	68	97	35	Negligible	Imperceptible	Possible	Negligible
144	Beside 34 Sungei Kadut Street 1	Industrial	3	0	5	59	High	Low	Possible	Minor
145	6A Mandai Estate	Industrial	3	96	137	31	Negligible	Imperceptible	Possible	Negligible
146	566 Woodlands Road	Commercial	3	96	135	31	Negligible	Imperceptible	Possible	Negligible
147	350 Woodlands Road	Industrial	3	54	77	38	Negligible	Imperceptible	Possible	Negligible

Detailed Ground-borne Noise Assessment Results

Vibratory Compactor (Low)

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
1	21A Woodlands Road	Industrial	3	0	1	54	High	Low	Less Likely	Minor
2	632 Senja Road	Residential	2	18	25	48	High	Medium	Less Likely	Minor
3	633 Senja Road	Residential	2	66	94	32	Negligible	Imperceptible	Less Likely	Negligible
4	633B Senja Road	Residential	2	43	61	37	Low	Very Low	Less Likely	Negligible
5	632A Senja Road	Residential	2	18	25	48	High	Medium	Less Likely	Minor
6	633A Senja Road	Residential	2	50	72	35	Low	Very Low	Less Likely	Negligible
7	634C Senja Road	Residential	3	41	59	38	Negligible	Imperceptible	Less Likely	Negligible
8	634A Senja Road	Residential	2	14	20	50	High	Medium	Less Likely	Minor
9	634B Senja Road	Residential	2	72	101	31	Negligible	Imperceptible	Less Likely	Negligible
10	634 Senja Road	Residential	2	17	23	49	High	Medium	Less Likely	Minor
11	635B Senja Road	Residential	2	82	117	29	Negligible	Imperceptible	Less Likely	Negligible
12	635A Senja Road	Residential	2	30	43	41	Medium	Low	Less Likely	Minor
13	635 Senja Road	Residential	2	94	134	27	Negligible	Imperceptible	Less Likely	Negligible
14	250A Woodlands Road	Industrial	3	68	96	31	Negligible	Imperceptible	Less Likely	Negligible
15	243A Woodlands Road	Industrial	3	296	418	12	Negligible	Imperceptible	Less Likely	Negligible
16	3 Jln Gali Batu	Industrial	3	270	382	14	Negligible	Imperceptible	Less Likely	Negligible
17	5 Stagmont RIng	Industrial	3	78	111	30	Negligible	Imperceptible	Less Likely	Negligible
18	38 Choa Chu Kang Street 64	Residential	2	68	97	31	Negligible	Imperceptible	Less Likely	Negligible
19	40 Choa Chu Kang Street 64	Residential	2	39	55	38	Low	Very Low	Less Likely	Negligible
20	36 Choa Chu Kang Street 64	Residential	2	81	114	29	Negligible	Imperceptible	Less Likely	Negligible
21	42 Choa Chu Kang Street 64	Residential	2	15	22	50	High	Medium	Less Likely	Minor
22	44 Choa Chu Kang Street 64	Residential	2	25	36	44	Medium	Low	Less Likely	Minor
23	46 Choa Chu Kang Street 64	Residential	2	36	51	39	Medium	Low	Less Likely	Minor
24	692A Choa Chu Kang Cres	Residential	2	53	75	34	Negligible	Imperceptible	Less Likely	Negligible
25	656 Choa Chu Kang Cres	Residential	2	81	115	29	Negligible	Imperceptible	Less Likely	Negligible
26	691 Choa Chu Kang Cres	Recreational	3	41	58	38	Negligible	Imperceptible	Less Likely	Negligible
27	691A Choa Chu Kang Cres	Residential	2	20	28	46	High	Medium	Less Likely	Minor
28	691B Choa Chu Kang Cres	Residential	2	1	2	54	High	Medium	Less Likely	Minor
29	8 Sungei Kadut Avenue	Industrial	3	64	91	32	Negligible	Imperceptible	Less Likely	Negligible
30	690D Choa Chu Kang Cres	Residential	2	2	4	54	High	Medium	Less Likely	Minor
31	690C Choa Chu Kang Cres	Residential	2	61	87	33	Negligible	Imperceptible	Less Likely	Negligible
32	19 Sungei Kadut Avenue	Industrial	3	177	250	19	Negligible	Imperceptible	Less Likely	Negligible
33	14 Sungei Kadut Avenue	Industrial	3	50	70	35	Negligible	Imperceptible	Less Likely	Negligible
34	16 Sungei Kadut Avenue	Industrial	3	46	65	36	Negligible	Imperceptible	Less Likely	Negligible
35	18 Sungei Kadut Avenue	Industrial	3	89	125	28	Negligible	Imperceptible	Less Likely	Negligible
36	20 Sungei Kadut Way	Industrial	3	93	131	27	Negligible	Imperceptible	Less Likely	Negligible
37	2C Mandai Estate	Industrial	3	14	20	50	Medium	Very Low	Less Likely	Negligible
38	22 Sungei Kadut Avenue	Industrial	3	57	81	33	Negligible	Imperceptible	Less Likely	Negligible
39	32 Sungei Kadut Way	Industrial	3	40	57	38	Negligible	Imperceptible	Less Likely	Negligible
40	2B Mandai Estate	Industrial	3	4	6	54	High	Low	Less Likely	Minor
41	20A Sungei Kadut Way	Industrial	3	2	4	54	High	Low	Less Likely	Minor

Detailed Ground-borne Noise Assessment Results

Vibratory Compactor (Low)

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
42	20 Sungei Kadut Way	Industrial	3	34	48	40	Negligible	Imperceptible	Less Likely	Negligible
43	18 Sungei Kadut Way	Industrial	3	70	100	31	Negligible	Imperceptible	Less Likely	Negligible
44	2A Mandai Estate	Industrial	3	5	7	54	High	Low	Less Likely	Minor
45	15 Sungei Kadut Way	Industrial	3	12	17	52	Medium	Very Low	Less Likely	Negligible
46	5 Sungei Kadut Way	Industrial	3	87	122	28	Negligible	Imperceptible	Less Likely	Negligible
47	31 Sungei Kadut Avenue	Industrial	3	28	39	42	Negligible	Imperceptible	Less Likely	Negligible
48	45 Sungei Kadut Avenue	Industrial	3	49	70	35	Negligible	Imperceptible	Less Likely	Negligible
49	33 Sungei Kadut Avenue	Industrial	3	28	39	42	Negligible	Imperceptible	Less Likely	Negligible
50	39 Sungei Kadut Avenue	Industrial	3	29	41	42	Negligible	Imperceptible	Less Likely	Negligible
51	17 Sungei Kadut Way	Industrial	3	26	37	43	Negligible	Imperceptible	Less Likely	Negligible
52	48 Sungei Kadut Avenue	Industrial	3	66	93	32	Negligible	Imperceptible	Less Likely	Negligible
53	46 Sungei Kadut Avenue	Industrial	3	18	25	48	Low	Very Low	Less Likely	Negligible
54	23H Sungei Kadut Street 1	Industrial	3	44	62	37	Negligible	Imperceptible	Less Likely	Negligible
55	23F Sungei Kadut Street 1	Industrial	3	9	13	54	High	Low	Less Likely	Minor
56	21 Sungei Kadut Street 1	Industrial	3	6	9	54	High	Low	Less Likely	Minor
57	23A Sungei Kadut Street 1	Industrial	3	0	1	54	High	Low	Less Likely	Minor
58	15 Sungei Kadut Street 2	Industrial	3	28	40	42	Negligible	Imperceptible	Less Likely	Negligible
59	15 Sungei Kadut Street 2	Industrial	3	27	38	43	Negligible	Imperceptible	Less Likely	Negligible
60	5 Sungei Kadut Street 2	Industrial	3	9	13	54	High	Low	Less Likely	Minor
61	8 Sungei Kadut Street 2	Industrial	3	10	14	54	High	Low	Less Likely	Minor
62	18 Sungei Kadut Street 2	Industrial	3	12	17	52	Medium	Very Low	Less Likely	Negligible
63	8 Sungei Kadut Street 2	Industrial	3	7	9	54	High	Low	Less Likely	Minor
64	36 Sungei Kadut Street 2	Industrial	3	1	2	54	High	Low	Less Likely	Minor
65	38 Sungei Kadut Street 2	Industrial	3	3	4	54	High	Low	Less Likely	Minor
66	38 Sungei Kadut Street 2	Industrial	3	26	37	43	Negligible	Imperceptible	Less Likely	Negligible
67	25 Sungei Kadut Street 2	Industrial	3	7	10	54	High	Low	Less Likely	Minor
68	31 Sungei Kadut Street 2	Industrial	3	46	66	36	Negligible	Imperceptible	Less Likely	Negligible
69	31 Sungei Kadut Street 2	Industrial	3	64	90	32	Negligible	Imperceptible	Less Likely	Negligible
70	29 Sungei Kadut Street 2	Industrial	3	8	12	54	High	Low	Less Likely	Minor
71	29 Sungei Kadut Street 2	Industrial	3	37	52	39	Negligible	Imperceptible	Less Likely	Negligible
72	31 Sungei Kadut Street 2	Industrial	3	54	77	34	Negligible	Imperceptible	Less Likely	Negligible
73	29 Sungei Kadut Street 2	Industrial	3	2	4	54	High	Low	Less Likely	Minor
74	31 Sungei Kadut Street 2	Industrial	3	44	63	37	Negligible	Imperceptible	Less Likely	Negligible
75	29 Sungei Kadut Street 2	Industrial	3	8	11	54	High	Low	Less Likely	Minor
76	31 Sungei Kadut Street 2	Industrial	3	38	54	39	Negligible	Imperceptible	Less Likely	Negligible
77	7 Sungei Kadut Street 3	Industrial	3	47	67	36	Negligible	Imperceptible	Less Likely	Negligible
78	Beside 3 Sungei Kadut Street 3	Industrial	3	45	64	36	Negligible	Imperceptible	Less Likely	Negligible
79	3 Sungei Kadut Street 3	Industrial	3	4	6	54	High	Low	Less Likely	Minor
80	3 Sungei Kadut Street 3	Industrial	3	6	8	54	High	Low	Less Likely	Minor
81	Beside 3 Sungei Kadut Street 3	Industrial	3	44	62	37	Negligible	Imperceptible	Less Likely	Negligible
82	8 Sungei Kadut Street 3	Industrial	3	30	43	41	Negligible	Imperceptible	Less Likely	Negligible

Detailed Ground-borne Noise Assessment Results

Vibratory Compactor (Low)

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
83	10 Sungei Kadut Street 3	Industrial	3	68	96	31	Negligible	Imperceptible	Less Likely	Negligible
84	10 Sungei Kadut Street 3	Industrial	3	46	65	36	Negligible	Imperceptible	Less Likely	Negligible
85	6 Sungei Kadut Street 3	Industrial	3	36	52	39	Negligible	Imperceptible	Less Likely	Negligible
86	25 Sungei Kadut Avenue	Place of Worship	2	111	157	25	Negligible	Imperceptible	Less Likely	Negligible
87	337 Woodlands Road	Industrial	3	0	1	54	High	Low	Less Likely	Minor
88	Tennis Court Beside 46 Choa Chu Kang Street 64	Recreational	3	67	95	31	Negligible	Imperceptible	Less Likely	Negligible
89	692 Choa Chu Kang Cres	Residential	3	5	8	54	High	Low	Less Likely	Minor
90	7 Mandai Link	Industrial	3	55	78	34	Negligible	Imperceptible	Less Likely	Negligible
91	12 Sungei Kadut Avenue	Industrial	3	68	97	31	Negligible	Imperceptible	Less Likely	Negligible
92	350 Woodlands Road	Industrial	3	0	0	54	High	Low	Less Likely	Minor
93	350 Woodlands Road	Industrial	3	0	0	54	High	Low	Less Likely	Minor
94	350 Woodlands Road	Industrial	3	1	1	54	High	Low	Less Likely	Minor
95	350 Woodlands Road	Industrial	3	0	0	54	High	Low	Less Likely	Minor
96	350 Woodlands Road	Industrial	3	0	0	54	High	Low	Less Likely	Minor
97	350 Woodlands Road	Industrial	3	62	88	32	Negligible	Imperceptible	Less Likely	Negligible
98	350 Woodlands Road	Industrial	3	51	72	35	Negligible	Imperceptible	Less Likely	Negligible
99	350 Woodlands Road	Industrial	3	91	128	28	Negligible	Imperceptible	Less Likely	Negligible
100	350 Woodlands Road	Industrial	3	71	101	31	Negligible	Imperceptible	Less Likely	Negligible
101	350 Woodlands Road	Industrial	3	36	51	39	Negligible	Imperceptible	Less Likely	Negligible
102	Building between 2A and 2B Mandai Estate	Industrial	3	5	8	54	High	Low	Less Likely	Minor
103	Container Building along Gali Batu Close	Industrial	3	51	73	35	Negligible	Imperceptible	Less Likely	Negligible
104	689 Choa Chu Kand Drive	Industrial	3	9	13	54	High	Low	Less Likely	Minor
105	632B Senja Road	Residential	2	25	35	44	Medium	Low	Less Likely	Minor
106	633C Senja Road	Residential	2	65	92	32	Negligible	Imperceptible	Less Likely	Negligible
107	9 Sungei Kadut Street 3	Industrial	3	93	131	27	Negligible	Imperceptible	Less Likely	Negligible
108	692B Choa Chu Kang Cres	Residential	2	50	71	35	Low	Very Low	Less Likely	Negligible
109	690A Choa Chu Kang Cres	Residential	2	84	119	29	Negligible	Imperceptible	Less Likely	Negligible
110	32 Choa Chu Kang Street 64	Residential	2	93	131	27	Negligible	Imperceptible	Less Likely	Negligible
111	6D Mandai Estate	Industrial	3	88	124	28	Negligible	Imperceptible	Less Likely	Negligible
112	90 Mandai Estate	Industrial	3	91	128	28	Negligible	Imperceptible	Less Likely	Negligible
113	96 Mandai Estate	Industrial	3	86	122	28	Negligible	Imperceptible	Less Likely	Negligible
114	94 Mandai Estate	Industrial	3	87	123	28	Negligible	Imperceptible	Less Likely	Negligible
115	92 Mandai Estate	Industrial	3	89	126	28	Negligible	Imperceptible	Less Likely	Negligible
116	88 Mandai Estate	Industrial	3	93	131	27	Negligible	Imperceptible	Less Likely	Negligible
117	633D Senja Road	Residential	2	82	117	29	Negligible	Imperceptible	Less Likely	Negligible
118	West View Primary School	Educational Institution	2	50	71	35	Low	Very Low	Less Likely	Negligible

Detailed Ground-borne Noise Assessment Results

Vibratory Compactor (Low)

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
119	180 Woodlands Road	Commercial	3	48	69	36	Negligible	Imperceptible	Less Likely	Negligible
120	663 Choa Chu Kang Cres	Residential	2	39	57	38	Low	Very Low	Less Likely	Negligible
121	662 Choa Chu Kang Cres	Residential	2	29	44	42	Medium	Low	Less Likely	Minor
122	668A Choa Chu Kang Cres	Residential	3	67	96	31	Negligible	Imperceptible	Less Likely	Negligible
123	664 Choa Chu Kang Cres	Residential	2	87	124	28	Negligible	Imperceptible	Less Likely	Negligible
124	661 Choa Chu Kang Cres	Residential	2	60	85	33	Negligible	Imperceptible	Less Likely	Negligible
125	656 Choa Chu Kang Cres	Residential	3	88	125	28	Negligible	Imperceptible	Less Likely	Negligible
126	Beside 3 Sungei Kadut Street 3	Industrial	3	76	107	30	Negligible	Imperceptible	Less Likely	Negligible
127	4 Sungei Kadut Street 3	Industrial	3	58	82	33	Negligible	Imperceptible	Less Likely	Negligible
128	4 Sungei Kadut Street 3	Industrial	3	81	114	29	Negligible	Imperceptible	Less Likely	Negligible
129	4 Sungei Kadut Street 3	Industrial	3	85	120	28	Negligible	Imperceptible	Less Likely	Negligible
130	31 Sungei Kadut Street 2	Industrial	3	84	119	29	Negligible	Imperceptible	Less Likely	Negligible
131	38 Sungei Kadut Street 2	Industrial	3	65	93	32	Negligible	Imperceptible	Less Likely	Negligible
132	6 Sungei Kadut Street 2	Industrial	3	82	116	29	Negligible	Imperceptible	Less Likely	Negligible
133	6 Sungei Kadut Street 2	Industrial	3	57	80	34	Negligible	Imperceptible	Less Likely	Negligible
134	27 Sungei Kadut Street 1	Industrial	3	81	115	29	Negligible	Imperceptible	Less Likely	Negligible
135	27 Sungei Kadut Street 1	Industrial	3	86	122	28	Negligible	Imperceptible	Less Likely	Negligible
136	27 Sungei Kadut Street 1	Industrial	3	12	17	53	Medium	Very Low	Less Likely	Negligible
137	27 Sungei Kadut Street 1	Industrial	3	72	102	31	Negligible	Imperceptible	Less Likely	Negligible
138	27 Sungei Kadut Street 1	Industrial	3	31	44	41	Negligible	Imperceptible	Less Likely	Negligible
139	27 Sungei Kadut Street 1	Industrial	3	83	118	29	Negligible	Imperceptible	Less Likely	Negligible
140	25 Sungei Kadut Street 1	Industrial	3	68	96	31	Negligible	Imperceptible	Less Likely	Negligible
141	Beside 25A Sungei Kadut Street 1	Industrial	3	7	11	54	High	Low	Less Likely	Minor
142	23 Sungei Kadut Street 1	Industrial	3	33	48	40	Negligible	Imperceptible	Less Likely	Negligible
143	36 Sungei Kadut Street 1	Industrial	3	68	97	31	Negligible	Imperceptible	Less Likely	Negligible
144	Beside 34 Sungei Kadut Street 1	Industrial	3	0	5	54	High	Low	Less Likely	Minor
145	6A Mandai Estate	Industrial	3	96	137	27	Negligible	Imperceptible	Less Likely	Negligible
146	566 Woodlands Road	Commercial	3	96	135	27	Negligible	Imperceptible	Less Likely	Negligible
147	350 Woodlands Road	Industrial	3	54	77	34	Negligible	Imperceptible	Less Likely	Negligible

Detailed Ground-borne Noise Assessment Results

Vibratory Compactor (High)

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
1	21A Woodlands Road	Industrial	3	0	1	63	High	Low	Less Likely	Minor
2	632 Senja Road	Residential	2	18	25	57	High	Medium	Less Likely	Minor
3	633 Senja Road	Residential	2	66	94	41	Medium	Low	Less Likely	Minor
4	633B Senja Road	Residential	2	43	61	46	High	Medium	Less Likely	Minor
5	632A Senja Road	Residential	2	18	25	56	High	Medium	Less Likely	Minor
6	633A Senja Road	Residential	2	50	72	44	Medium	Low	Less Likely	Minor
7	634C Senja Road	Residential	3	41	59	46	Low	Very Low	Less Likely	Negligible
8	634A Senja Road	Residential	2	14	20	59	High	Medium	Less Likely	Minor
9	634B Senja Road	Residential	2	72	101	40	Medium	Low	Less Likely	Minor
10	634 Senja Road	Residential	2	17	23	57	High	Medium	Less Likely	Minor
11	635B Senja Road	Residential	2	82	117	38	Low	Very Low	Less Likely	Negligible
12	635A Senja Road	Residential	2	30	43	50	High	Medium	Less Likely	Minor
13	635 Senja Road	Residential	2	94	134	36	Low	Very Low	Less Likely	Negligible
14	250A Woodlands Road	Industrial	3	68	96	40	Negligible	Imperceptible	Less Likely	Negligible
15	243A Woodlands Road	Industrial	3	296	418	21	Negligible	Imperceptible	Less Likely	Negligible
16	3 Jln Gali Batu	Industrial	3	270	382	23	Negligible	Imperceptible	Less Likely	Negligible
17	5 Stagmont RIng	Industrial	3	78	111	38	Negligible	Imperceptible	Less Likely	Negligible
18	38 Choa Chu Kang Street 64	Residential	2	68	97	40	Medium	Low	Less Likely	Minor
19	40 Choa Chu Kang Street 64	Residential	2	39	55	47	High	Medium	Less Likely	Minor
20	36 Choa Chu Kang Street 64	Residential	2	81	114	38	Low	Very Low	Less Likely	Negligible
21	42 Choa Chu Kang Street 64	Residential	2	15	22	58	High	Medium	Less Likely	Minor
22	44 Choa Chu Kang Street 64	Residential	2	25	36	52	High	Medium	Less Likely	Minor
23	46 Choa Chu Kang Street 64	Residential	2	36	51	48	High	Medium	Less Likely	Minor
24	692A Choa Chu Kang Cres	Residential	2	53	75	43	Medium	Low	Less Likely	Minor
25	656 Choa Chu Kang Cres	Residential	2	81	115	38	Low	Very Low	Less Likely	Negligible
26	691 Choa Chu Kang Cres	Recreational	3	41	58	47	Low	Very Low	Less Likely	Negligible
27	691A Choa Chu Kang Cres	Residential	2	20	28	55	High	Medium	Less Likely	Minor
28	691B Choa Chu Kang Cres	Residential	2	1	2	63	High	Medium	Less Likely	Minor
29	8 Sungei Kadut Avenue	Industrial	3	64	91	41	Negligible	Imperceptible	Less Likely	Negligible
30	690D Choa Chu Kang Cres	Residential	2	2	4	63	High	Medium	Less Likely	Minor
31	690C Choa Chu Kang Cres	Residential	2	61	87	41	Medium	Low	Less Likely	Minor
32	19 Sungei Kadut Avenue	Industrial	3	177	250	28	Negligible	Imperceptible	Less Likely	Negligible
33	14 Sungei Kadut Avenue	Industrial	3	50	70	44	Negligible	Imperceptible	Less Likely	Negligible
34	16 Sungei Kadut Avenue	Industrial	3	46	65	45	Low	Very Low	Less Likely	Negligible
35	18 Sungei Kadut Avenue	Industrial	3	89	125	37	Negligible	Imperceptible	Less Likely	Negligible
36	20 Sungei Kadut Way	Industrial	3	93	131	36	Negligible	Imperceptible	Less Likely	Negligible
37	2C Mandai Estate	Industrial	3	14	20	59	High	Low	Less Likely	Minor
38	22 Sungei Kadut Avenue	Industrial	3	57	81	42	Negligible	Imperceptible	Less Likely	Negligible
39	32 Sungei Kadut Way	Industrial	3	40	57	47	Low	Very Low	Less Likely	Negligible
40	2B Mandai Estate	Industrial	3	4	6	63	High	Low	Less Likely	Minor
41	20A Sungei Kadut Way	Industrial	3	2	4	63	High	Low	Less Likely	Minor

Detailed Ground-borne Noise Assessment Results

Vibratory Compactor (High)

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
42	20 Sungei Kadut Way	Industrial	3	34	48	49	Low	Very Low	Less Likely	Negligible
43	18 Sungei Kadut Way	Industrial	3	70	100	40	Negligible	Imperceptible	Less Likely	Negligible
44	2A Mandai Estate	Industrial	3	5	7	63	High	Low	Less Likely	Minor
45	15 Sungei Kadut Way	Industrial	3	12	17	61	High	Low	Less Likely	Minor
46	5 Sungei Kadut Way	Industrial	3	87	122	37	Negligible	Imperceptible	Less Likely	Negligible
47	31 Sungei Kadut Avenue	Industrial	3	28	39	51	Medium	Very Low	Less Likely	Negligible
48	45 Sungei Kadut Avenue	Industrial	3	49	70	44	Negligible	Imperceptible	Less Likely	Negligible
49	33 Sungei Kadut Avenue	Industrial	3	28	39	51	Medium	Very Low	Less Likely	Negligible
50	39 Sungei Kadut Avenue	Industrial	3	29	41	51	Medium	Very Low	Less Likely	Negligible
51	17 Sungei Kadut Way	Industrial	3	26	37	52	Medium	Very Low	Less Likely	Negligible
52	48 Sungei Kadut Avenue	Industrial	3	66	93	41	Negligible	Imperceptible	Less Likely	Negligible
53	46 Sungei Kadut Avenue	Industrial	3	18	25	57	High	Low	Less Likely	Minor
54	23H Sungei Kadut Street 1	Industrial	3	44	62	46	Low	Very Low	Less Likely	Negligible
55	23F Sungei Kadut Street 1	Industrial	3	9	13	63	High	Low	Less Likely	Minor
56	21 Sungei Kadut Street 1	Industrial	3	6	9	63	High	Low	Less Likely	Minor
57	23A Sungei Kadut Street 1	Industrial	3	0	1	63	High	Low	Less Likely	Minor
58	15 Sungei Kadut Street 2	Industrial	3	28	40	51	Medium	Very Low	Less Likely	Negligible
59	15 Sungei Kadut Street 2	Industrial	3	27	38	52	Medium	Very Low	Less Likely	Negligible
60	5 Sungei Kadut Street 2	Industrial	3	9	13	63	High	Low	Less Likely	Minor
61	8 Sungei Kadut Street 2	Industrial	3	10	14	63	High	Low	Less Likely	Minor
62	18 Sungei Kadut Street 2	Industrial	3	12	17	61	High	Low	Less Likely	Minor
63	8 Sungei Kadut Street 2	Industrial	3	7	9	63	High	Low	Less Likely	Minor
64	36 Sungei Kadut Street 2	Industrial	3	1	2	63	High	Low	Less Likely	Minor
65	38 Sungei Kadut Street 2	Industrial	3	3	4	63	High	Low	Less Likely	Minor
66	38 Sungei Kadut Street 2	Industrial	3	26	37	52	Medium	Very Low	Less Likely	Negligible
67	25 Sungei Kadut Street 2	Industrial	3	7	10	63	High	Low	Less Likely	Minor
68	31 Sungei Kadut Street 2	Industrial	3	46	66	45	Negligible	Imperceptible	Less Likely	Negligible
69	31 Sungei Kadut Street 2	Industrial	3	64	90	41	Negligible	Imperceptible	Less Likely	Negligible
70	29 Sungei Kadut Street 2	Industrial	3	8	12	63	High	Low	Less Likely	Minor
71	29 Sungei Kadut Street 2	Industrial	3	37	52	48	Low	Very Low	Less Likely	Negligible
72	31 Sungei Kadut Street 2	Industrial	3	54	77	43	Negligible	Imperceptible	Less Likely	Negligible
73	29 Sungei Kadut Street 2	Industrial	3	2	4	63	High	Low	Less Likely	Minor
74	31 Sungei Kadut Street 2	Industrial	3	44	63	46	Low	Very Low	Less Likely	Negligible
75	29 Sungei Kadut Street 2	Industrial	3	8	11	63	High	Low	Less Likely	Minor
76	31 Sungei Kadut Street 2	Industrial	3	38	54	47	Low	Very Low	Less Likely	Negligible
77	7 Sungei Kadut Street 3	Industrial	3	47	67	45	Negligible	Imperceptible	Less Likely	Negligible
78	Beside 3 Sungei Kadut Street 3	Industrial	3	45	64	45	Low	Very Low	Less Likely	Negligible
79	3 Sungei Kadut Street 3	Industrial	3	4	6	63	High	Low	Less Likely	Minor
80	3 Sungei Kadut Street 3	Industrial	3	6	8	63	High	Low	Less Likely	Minor
81	Beside 3 Sungei Kadut Street 3	Industrial	3	44	62	46	Low	Very Low	Less Likely	Negligible
82	8 Sungei Kadut Street 3	Industrial	3	30	43	50	Medium	Very Low	Less Likely	Negligible

Detailed Ground-borne Noise Assessment Results

Vibratory Compactor (High)

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
83	10 Sungei Kadut Street 3	Industrial	3	68	96	40	Negligible	Imperceptible	Less Likely	Negligible
84	10 Sungei Kadut Street 3	Industrial	3	46	65	45	Low	Very Low	Less Likely	Negligible
85	6 Sungei Kadut Street 3	Industrial	3	36	52	48	Low	Very Low	Less Likely	Negligible
86	25 Sungei Kadut Avenue	Place of Worship	2	111	157	34	Negligible	Imperceptible	Less Likely	Negligible
87	337 Woodlands Road	Industrial	3	0	1	63	High	Low	Less Likely	Minor
88	Tennis Court Beside 46 Choa Chu Kang Street 64	Recreational	3	67	95	40	Negligible	Imperceptible	Less Likely	Negligible
89	692 Choa Chu Kang Cres	Residential	3	5	8	63	High	Low	Less Likely	Minor
90	7 Mandai Link	Industrial	3	55	78	43	Negligible	Imperceptible	Less Likely	Negligible
91	12 Sungei Kadut Avenue	Industrial	3	68	97	40	Negligible	Imperceptible	Less Likely	Negligible
92	350 Woodlands Road	Industrial	3	0	0	63	High	Low	Less Likely	Minor
93	350 Woodlands Road	Industrial	3	0	0	63	High	Low	Less Likely	Minor
94	350 Woodlands Road	Industrial	3	1	1	63	High	Low	Less Likely	Minor
95	350 Woodlands Road	Industrial	3	0	0	63	High	Low	Less Likely	Minor
96	350 Woodlands Road	Industrial	3	0	0	63	High	Low	Less Likely	Minor
97	350 Woodlands Road	Industrial	3	62	88	41	Negligible	Imperceptible	Less Likely	Negligible
98	350 Woodlands Road	Industrial	3	51	72	44	Negligible	Imperceptible	Less Likely	Negligible
99	350 Woodlands Road	Industrial	3	91	128	37	Negligible	Imperceptible	Less Likely	Negligible
100	350 Woodlands Road	Industrial	3	71	101	40	Negligible	Imperceptible	Less Likely	Negligible
101	350 Woodlands Road	Industrial	3	36	51	48	Low	Very Low	Less Likely	Negligible
102	Building between 2A and 2B Mandai Estate	Industrial	3	5	8	63	High	Low	Less Likely	Minor
103	Container Building along Gali Batu Close	Industrial	3	51	73	44	Negligible	Imperceptible	Less Likely	Negligible
104	689 Choa Chu Kand Drive	Industrial	3	9	13	63	High	Low	Less Likely	Minor
105	632B Senja Road	Residential	2	25	35	53	High	Medium	Less Likely	Minor
106	633C Senja Road	Residential	2	65	92	41	Medium	Low	Less Likely	Minor
107	9 Sungei Kadut Street 3	Industrial	3	93	131	36	Negligible	Imperceptible	Less Likely	Negligible
108	692B Choa Chu Kang Cres	Residential	2	50	71	44	Medium	Low	Less Likely	Minor
109	690A Choa Chu Kang Cres	Residential	2	84	119	38	Low	Very Low	Less Likely	Negligible
110	32 Choa Chu Kang Street 64	Residential	2	93	131	36	Low	Very Low	Less Likely	Negligible
111	6D Mandai Estate	Industrial	3	88	124	37	Negligible	Imperceptible	Less Likely	Negligible
112	90 Mandai Estate	Industrial	3	91	128	37	Negligible	Imperceptible	Less Likely	Negligible
113	96 Mandai Estate	Industrial	3	86	122	37	Negligible	Imperceptible	Less Likely	Negligible
114	94 Mandai Estate	Industrial	3	87	123	37	Negligible	Imperceptible	Less Likely	Negligible
115	92 Mandai Estate	Industrial	3	89	126	37	Negligible	Imperceptible	Less Likely	Negligible
116	88 Mandai Estate	Industrial	3	93	131	36	Negligible	Imperceptible	Less Likely	Negligible
117	633D Senja Road	Residential	2	82	117	38	Low	Very Low	Less Likely	Negligible
118	West View Primary School	Educational Institution	2	50	71	44	High	Medium	Less Likely	Minor

Detailed Ground-borne Noise Assessment Results

Vibratory Compactor (High)

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
119	180 Woodlands Road	Commercial	3	48	69	45	Negligible	Imperceptible	Less Likely	Negligible
120	663 Choa Chu Kang Cres	Residential	2	39	57	47	High	Medium	Less Likely	Minor
121	662 Choa Chu Kang Cres	Residential	2	29	44	51	High	Medium	Less Likely	Minor
122	668A Choa Chu Kang Cres	Residential	3	67	96	40	Negligible	Imperceptible	Less Likely	Negligible
123	664 Choa Chu Kang Cres	Residential	2	87	124	37	Low	Very Low	Less Likely	Negligible
124	661 Choa Chu Kang Cres	Residential	2	60	85	42	Medium	Low	Less Likely	Minor
125	656 Choa Chu Kang Cres	Residential	3	88	125	37	Negligible	Imperceptible	Less Likely	Negligible
126	Beside 3 Sungei Kadut Street 3	Industrial	3	76	107	39	Negligible	Imperceptible	Less Likely	Negligible
127	4 Sungei Kadut Street 3	Industrial	3	58	82	42	Negligible	Imperceptible	Less Likely	Negligible
128	4 Sungei Kadut Street 3	Industrial	3	81	114	38	Negligible	Imperceptible	Less Likely	Negligible
129	4 Sungei Kadut Street 3	Industrial	3	85	120	37	Negligible	Imperceptible	Less Likely	Negligible
130	31 Sungei Kadut Street 2	Industrial	3	84	119	37	Negligible	Imperceptible	Less Likely	Negligible
131	38 Sungei Kadut Street 2	Industrial	3	65	93	41	Negligible	Imperceptible	Less Likely	Negligible
132	6 Sungei Kadut Street 2	Industrial	3	82	116	38	Negligible	Imperceptible	Less Likely	Negligible
133	6 Sungei Kadut Street 2	Industrial	3	57	80	42	Negligible	Imperceptible	Less Likely	Negligible
134	27 Sungei Kadut Street 1	Industrial	3	81	115	38	Negligible	Imperceptible	Less Likely	Negligible
135	27 Sungei Kadut Street 1	Industrial	3	86	122	37	Negligible	Imperceptible	Less Likely	Negligible
136	27 Sungei Kadut Street 1	Industrial	3	12	17	61	High	Low	Less Likely	Minor
137	27 Sungei Kadut Street 1	Industrial	3	72	102	39	Negligible	Imperceptible	Less Likely	Negligible
138	27 Sungei Kadut Street 1	Industrial	3	31	44	50	Medium	Very Low	Less Likely	Negligible
139	27 Sungei Kadut Street 1	Industrial	3	83	118	38	Negligible	Imperceptible	Less Likely	Negligible
140	25 Sungei Kadut Street 1	Industrial	3	68	96	40	Negligible	Imperceptible	Less Likely	Negligible
141	Beside 25A Sungei Kadut Street 1	Industrial	3	7	11	63	High	Low	Less Likely	Minor
142	23 Sungei Kadut Street 1	Industrial	3	33	48	49	Medium	Very Low	Less Likely	Negligible
143	36 Sungei Kadut Street 1	Industrial	3	68	97	40	Negligible	Imperceptible	Less Likely	Negligible
144	Beside 34 Sungei Kadut Street 1	Industrial	3	0	5	63	High	Low	Less Likely	Minor
145	6A Mandai Estate	Industrial	3	96	137	36	Negligible	Imperceptible	Less Likely	Negligible
146	566 Woodlands Road	Commercial	3	96	135	36	Negligible	Imperceptible	Less Likely	Negligible
147	350 Woodlands Road	Industrial	3	54	77	43	Negligible	Imperceptible	Less Likely	Negligible

Detailed Ground-borne Noise Assessment Results

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
1	21A Woodlands Road	Industrial	3	55	57	32	Negligible	Imperceptible	Certain	Negligible
2	632 Senja Road	Residential	2	42	45	38	Negligible	Imperceptible	Certain	Negligible
3	633 Senja Road	Residential	2	88	90	22	Negligible	Imperceptible	Certain	Negligible
4	633B Senja Road	Residential	2	57	59	31	Negligible	Imperceptible	Certain	Negligible
5	632A Senja Road	Residential	2	30	35	44	Low	Very Low	Certain	Minor
6	633A Senja Road	Residential	2	62	65	29	Negligible	Imperceptible	Certain	Negligible
7	634C Senja Road	Residential	3	52	55	33	Negligible	Imperceptible	Certain	Negligible
8	634A Senja Road	Residential	2	22	28	49	Medium	Low	Certain	Moderate
9	634B Senja Road	Residential	2	81	83	23	Negligible	Imperceptible	Certain	Negligible
10	634 Senja Road	Residential	2	19	26	51	High	Medium	Certain	Major
11	635B Senja Road	Residential	2	81	83	23	Negligible	Imperceptible	Certain	Negligible
12	635A Senja Road	Residential	2	18	27	50	High	Medium	Certain	Major
13	635 Senja Road	Residential	2	82	84	23	Negligible	Imperceptible	Certain	Negligible
14	250A Woodlands Road	Industrial	3	32	42	40	Negligible	Imperceptible	Certain	Negligible
15	243A Woodlands Road	Industrial	3	22	35	43	Negligible	Imperceptible	Certain	Negligible
16	3 Jln Gali Batu	Industrial	3	71	76	25	Negligible	Imperceptible	Certain	Negligible
17	5 Stagmont RIng	Industrial	3	0	31	46	High	Low	Certain	Moderate
18	38 Choa Chu Kang Street 64	Residential	2	188	190	19	Negligible	Imperceptible	Certain	Negligible
19	40 Choa Chu Kang Street 64	Residential	2	138	140	19	Negligible	Imperceptible	Certain	Negligible
20	36 Choa Chu Kang Street 64	Residential	2	244	245	19	Negligible	Imperceptible	Certain	Negligible
21	42 Choa Chu Kang Street 64	Residential	2	145	146	19	Negligible	Imperceptible	Certain	Negligible
22	44 Choa Chu Kang Street 64	Residential	2	196	197	19	Negligible	Imperceptible	Certain	Negligible
23	46 Choa Chu Kang Street 64	Residential	2	247	248	19	Negligible	Imperceptible	Certain	Negligible
24	692A Choa Chu Kang Cres	Residential	2	169	170	19	Negligible	Imperceptible	Certain	Negligible
25	656 Choa Chu Kang Cres	Residential	2	284	284	19	Negligible	Imperceptible	Certain	Negligible
26	691 Choa Chu Kang Cres	Recreational	3	194	195	19	Negligible	Imperceptible	Certain	Negligible
27	691A Choa Chu Kang Cres	Residential	2	168	169	19	Negligible	Imperceptible	Certain	Negligible
28	691B Choa Chu Kang Cres	Residential	2	167	169	19	Negligible	Imperceptible	Certain	Negligible
29	8 Sungei Kadut Avenue	Industrial	3	140	141	19	Negligible	Imperceptible	Certain	Negligible
30	690D Choa Chu Kang Cres	Residential	2	153	154	19	Negligible	Imperceptible	Certain	Negligible
31	690C Choa Chu Kang Cres	Residential	2	151	152	19	Negligible	Imperceptible	Certain	Negligible
32	19 Sungei Kadut Avenue	Industrial	3	42	45	38	Negligible	Imperceptible	Certain	Negligible
33	14 Sungei Kadut Avenue	Industrial	3	140	141	19	Negligible	Imperceptible	Certain	Negligible
34	16 Sungei Kadut Avenue	Industrial	3	105	106	19	Negligible	Imperceptible	Certain	Negligible
35	18 Sungei Kadut Avenue	Industrial	3	105	106	19	Negligible	Imperceptible	Certain	Negligible
36	20 Sungei Kadut Way	Industrial	3	100	101	19	Negligible	Imperceptible	Certain	Negligible
37	2C Mandai Estate	Industrial	3	35	39	41	Negligible	Imperceptible	Certain	Negligible
38	22 Sungei Kadut Avenue	Industrial	3	14	26	51	Medium	Very Low	Certain	Minor
39	32 Sungei Kadut Way	Industrial	3	21	30	47	Negligible	Imperceptible	Certain	Negligible
40	2B Mandai Estate	Industrial	3	48	53	34	Negligible	Imperceptible	Certain	Negligible
41	20A Sungei Kadut Way	Industrial	3	29	37	42	Negligible	Imperceptible	Certain	Negligible

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
42	20 Sungei Kadut Way	Industrial	3	43	46	37	Negligible	Imperceptible	Certain	Negligible
43	18 Sungei Kadut Way	Industrial	3	68	72	27	Negligible	Imperceptible	Certain	Negligible
44	2A Mandai Estate	Industrial	3	79	82	24	Negligible	Imperceptible	Certain	Negligible
45	15 Sungei Kadut Way	Industrial	3	58	63	30	Negligible	Imperceptible	Certain	Negligible
46	5 Sungei Kadut Way	Industrial	3	60	64	29	Negligible	Imperceptible	Certain	Negligible
47	31 Sungei Kadut Avenue	Industrial	3	41	47	36	Negligible	Imperceptible	Certain	Negligible
48	45 Sungei Kadut Avenue	Industrial	3	55	59	31	Negligible	Imperceptible	Certain	Negligible
49	33 Sungei Kadut Avenue	Industrial	3	67	71	27	Negligible	Imperceptible	Certain	Negligible
50	39 Sungei Kadut Avenue	Industrial	3	14	26	50	Low	Very Low	Certain	Minor
51	17 Sungei Kadut Way	Industrial	3	75	78	25	Negligible	Imperceptible	Certain	Negligible
52	48 Sungei Kadut Avenue	Industrial	3	86	88	22	Negligible	Imperceptible	Certain	Negligible
53	46 Sungei Kadut Avenue	Industrial	3	32	36	43	Negligible	Imperceptible	Certain	Negligible
54	23H Sungei Kadut Street 1	Industrial	3	77	79	25	Negligible	Imperceptible	Certain	Negligible
55	23F Sungei Kadut Street 1	Industrial	3	42	46	37	Negligible	Imperceptible	Certain	Negligible
56	21 Sungei Kadut Street 1	Industrial	3	190	191	19	Negligible	Imperceptible	Certain	Negligible
57	23A Sungei Kadut Street 1	Industrial	3	153	154	19	Negligible	Imperceptible	Certain	Negligible
58	15 Sungei Kadut Street 2	Industrial	3	64	66	29	Negligible	Imperceptible	Certain	Negligible
59	15 Sungei Kadut Street 2	Industrial	3	43	46	37	Negligible	Imperceptible	Certain	Negligible
60	5 Sungei Kadut Street 2	Industrial	3	57	59	31	Negligible	Imperceptible	Certain	Negligible
61	8 Sungei Kadut Street 2	Industrial	3	87	88	22	Negligible	Imperceptible	Certain	Negligible
62	18 Sungei Kadut Street 2	Industrial	3	77	78	25	Negligible	Imperceptible	Certain	Negligible
63	8 Sungei Kadut Street 2	Industrial	3	84	85	23	Negligible	Imperceptible	Certain	Negligible
64	36 Sungei Kadut Street 2	Industrial	3	44	50	35	Negligible	Imperceptible	Certain	Negligible
65	38 Sungei Kadut Street 2	Industrial	3	69	73	26	Negligible	Imperceptible	Certain	Negligible
66	38 Sungei Kadut Street 2	Industrial	3	92	95	20	Negligible	Imperceptible	Certain	Negligible
67	25 Sungei Kadut Street 2	Industrial	3	40	42	39	Negligible	Imperceptible	Certain	Negligible
68	31 Sungei Kadut Street 2	Industrial	3	102	103	19	Negligible	Imperceptible	Certain	Negligible
69	31 Sungei Kadut Street 2	Industrial	3	102	103	19	Negligible	Imperceptible	Certain	Negligible
70	29 Sungei Kadut Street 2	Industrial	3	41	43	39	Negligible	Imperceptible	Certain	Negligible
71	29 Sungei Kadut Street 2	Industrial	3	69	71	27	Negligible	Imperceptible	Certain	Negligible
72	31 Sungei Kadut Street 2	Industrial	3	102	103	19	Negligible	Imperceptible	Certain	Negligible
73	29 Sungei Kadut Street 2	Industrial	3	40	43	39	Negligible	Imperceptible	Certain	Negligible
74	31 Sungei Kadut Street 2	Industrial	3	103	104	19	Negligible	Imperceptible	Certain	Negligible
75	29 Sungei Kadut Street 2	Industrial	3	70	72	27	Negligible	Imperceptible	Certain	Negligible
76	31 Sungei Kadut Street 2	Industrial	3	101	102	19	Negligible	Imperceptible	Certain	Negligible
77	7 Sungei Kadut Street 3	Industrial	3	63	65	29	Negligible	Imperceptible	Certain	Negligible
78	Beside 3 Sungei Kadut Street 3	Industrial	3	108	109	19	Negligible	Imperceptible	Certain	Negligible
79	3 Sungei Kadut Street 3	Industrial	3	67	68	28	Negligible	Imperceptible	Certain	Negligible
80	3 Sungei Kadut Street 3	Industrial	3	71	72	27	Negligible	Imperceptible	Certain	Negligible
81	Beside 3 Sungei Kadut Street 3	Industrial	3	107	108	19	Negligible	Imperceptible	Certain	Negligible
82	8 Sungei Kadut Street 3	Industrial	3	58	59	31	Negligible	Imperceptible	Certain	Negligible

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
83	10 Sungei Kadut Street 3	Industrial	3	93	94	20	Negligible	Imperceptible	Certain	Negligible
84	10 Sungei Kadut Street 3	Industrial	3	71	72	27	Negligible	Imperceptible	Certain	Negligible
85	6 Sungei Kadut Street 3	Industrial	3	67	68	28	Negligible	Imperceptible	Certain	Negligible
86	25 Sungei Kadut Avenue	Place of Worship	2	0	21	55	High	Medium	Certain	Major
87	337 Woodlands Road	Industrial	3	22	38	42	Negligible	Imperceptible	Certain	Negligible
88	Tennis Court Beside 46 Choa Chu Kang Street 64	Recreational	3	296	297	19	Negligible	Imperceptible	Certain	Negligible
89	692 Choa Chu Kang Cres	Residential	3	152	154	19	Negligible	Imperceptible	Certain	Negligible
90	7 Mandai Link	Industrial	3	196	197	19	Negligible	Imperceptible	Certain	Negligible
91	12 Sungei Kadut Avenue	Industrial	3	139	140	19	Negligible	Imperceptible	Certain	Negligible
92	350 Woodlands Road	Industrial	3	68	70	27	Negligible	Imperceptible	Certain	Negligible
93	350 Woodlands Road	Industrial	3	136	137	19	Negligible	Imperceptible	Certain	Negligible
94	350 Woodlands Road	Industrial	3	156	156	19	Negligible	Imperceptible	Certain	Negligible
95	350 Woodlands Road	Industrial	3	189	189	19	Negligible	Imperceptible	Certain	Negligible
96	350 Woodlands Road	Industrial	3	216	217	19	Negligible	Imperceptible	Certain	Negligible
97	350 Woodlands Road	Industrial	3	384	384	19	Negligible	Imperceptible	Certain	Negligible
98	350 Woodlands Road	Industrial	3	356	356	19	Negligible	Imperceptible	Certain	Negligible
99	350 Woodlands Road	Industrial	3	358	358	19	Negligible	Imperceptible	Certain	Negligible
100	350 Woodlands Road	Industrial	3	373	374	19	Negligible	Imperceptible	Certain	Negligible
101	350 Woodlands Road	Industrial	3	276	276	19	Negligible	Imperceptible	Certain	Negligible
102	Building between 2A and 2B Mandai Estate	Industrial	3	68	71	27	Negligible	Imperceptible	Certain	Negligible
103	Container Building along Gali Batu Close	Industrial	3	98	99	19	Negligible	Imperceptible	Certain	Negligible
104	689 Choa Chu Kand Drive	Industrial	3	207	207	19	Negligible	Imperceptible	Certain	Negligible
105	632B Senja Road	Residential	2	105	107	19	Negligible	Imperceptible	Certain	Negligible
106	633C Senja Road	Residential	2	114	116	19	Negligible	Imperceptible	Certain	Negligible
107	9 Sungei Kadut Street 3	Industrial	3	109	110	19	Negligible	Imperceptible	Certain	Negligible
108	692B Choa Chu Kang Cres	Residential	2	167	168	19	Negligible	Imperceptible	Certain	Negligible
109	690A Choa Chu Kang Cres	Residential	2	199	199	19	Negligible	Imperceptible	Certain	Negligible
110	32 Choa Chu Kang Street 64	Residential	2	155	157	19	Negligible	Imperceptible	Certain	Negligible
111	6D Mandai Estate	Industrial	3	141	142	19	Negligible	Imperceptible	Certain	Negligible
112	90 Mandai Estate	Industrial	3	113	115	19	Negligible	Imperceptible	Certain	Negligible
113	96 Mandai Estate	Industrial	3	120	122	19	Negligible	Imperceptible	Certain	Negligible
114	94 Mandai Estate	Industrial	3	117	119	19	Negligible	Imperceptible	Certain	Negligible
115	92 Mandai Estate	Industrial	3	116	118	19	Negligible	Imperceptible	Certain	Negligible
116	88 Mandai Estate	Industrial	3	112	114	19	Negligible	Imperceptible	Certain	Negligible
117	633D Senja Road	Residential	2	159	160	19	Negligible	Imperceptible	Certain	Negligible
118	West View Primary School	Educational Institution	2	184	185	19	Negligible	Imperceptible	Certain	Negligible

No.	Address	Building Use	Receptor Sensitivity	Horizontal Distance from the Vibration Source, m	Slant Distance from the Vibration Source, m	Predicted Ground-Borne Noise Level, L_{ASMax}, dB	Impact Intensity	Impact Consequence	Likelihood	Impact Significance
119	180 Woodlands Road	Commercial	3	97	100	19	Negligible	Imperceptible	Certain	Negligible
120	663 Choa Chu Kang Cres	Residential	2	290	290	19	Negligible	Imperceptible	Certain	Negligible
121	662 Choa Chu Kang Cres	Residential	2	279	279	19	Negligible	Imperceptible	Certain	Negligible
122	668A Choa Chu Kang Cres	Residential	3	316	317	19	Negligible	Imperceptible	Certain	Negligible
123	664 Choa Chu Kang Cres	Residential	2	334	334	19	Negligible	Imperceptible	Certain	Negligible
124	661 Choa Chu Kang Cres	Residential	2	281	282	19	Negligible	Imperceptible	Certain	Negligible
125	656 Choa Chu Kang Cres	Residential	3	307	308	19	Negligible	Imperceptible	Certain	Negligible
126	Beside 3 Sungei Kadut Street 3	Industrial	3	139	139	19	Negligible	Imperceptible	Certain	Negligible
127	4 Sungei Kadut Street 3	Industrial	3	124	125	19	Negligible	Imperceptible	Certain	Negligible
128	4 Sungei Kadut Street 3	Industrial	3	142	142	19	Negligible	Imperceptible	Certain	Negligible
129	4 Sungei Kadut Street 3	Industrial	3	153	154	19	Negligible	Imperceptible	Certain	Negligible
130	31 Sungei Kadut Street 2	Industrial	3	147	148	19	Negligible	Imperceptible	Certain	Negligible
131	38 Sungei Kadut Street 2	Industrial	3	131	133	19	Negligible	Imperceptible	Certain	Negligible
132	6 Sungei Kadut Street 2	Industrial	3	159	160	19	Negligible	Imperceptible	Certain	Negligible
133	6 Sungei Kadut Street 2	Industrial	3	134	135	19	Negligible	Imperceptible	Certain	Negligible
134	27 Sungei Kadut Street 1	Industrial	3	156	157	19	Negligible	Imperceptible	Certain	Negligible
135	27 Sungei Kadut Street 1	Industrial	3	156	157	19	Negligible	Imperceptible	Certain	Negligible
136	27 Sungei Kadut Street 1	Industrial	3	157	158	19	Negligible	Imperceptible	Certain	Negligible
137	27 Sungei Kadut Street 1	Industrial	3	191	191	19	Negligible	Imperceptible	Certain	Negligible
138	27 Sungei Kadut Street 1	Industrial	3	191	192	19	Negligible	Imperceptible	Certain	Negligible
139	27 Sungei Kadut Street 1	Industrial	3	247	248	19	Negligible	Imperceptible	Certain	Negligible
140	25 Sungei Kadut Street 1	Industrial	3	231	231	19	Negligible	Imperceptible	Certain	Negligible
141	Beside 25A Sungei Kadut Street 1	Industrial	3	170	171	19	Negligible	Imperceptible	Certain	Negligible
142	23 Sungei Kadut Street 1	Industrial	3	190	191	19	Negligible	Imperceptible	Certain	Negligible
143	36 Sungei Kadut Street 1	Industrial	3	320	320	19	Negligible	Imperceptible	Certain	Negligible
144	Beside 34 Sungei Kadut Street 1	Industrial	3	215	215	19	Negligible	Imperceptible	Certain	Negligible
145	6A Mandai Estate	Industrial	3	179	180	19	Negligible	Imperceptible	Certain	Negligible
146	566 Woodlands Road	Commercial	3	213	214	19	Negligible	Imperceptible	Certain	Negligible
147	350 Woodlands Road	Industrial	3	183	184	19	Negligible	Imperceptible	Certain	Negligible
148	Future JTC Building	Commercial	3	0	14	65	High	Low	Certain	Moderate

Appendix CC

List of Industries within Project Corridor

Name of Building	Address	Allocation/Usage
South Sea Furniture Manufacturer (1988) Pte Ltd	3 Sungei Kadut Street 4, S(729033)	Manufacture of furniture and fixtures of Wood (including upholstery)
H T Glass Pte Ltd	5 Sungei Kadut Street 4, S(729035)	Manufacture of glass and glass products (including yarn of glass fibres)
Sin Lam Bee Sawmill Pte Ltd	2 Sungei Kadut Street 3, S(729137)	Wholesale of logs, sawn timber, plywood and related products
Sin Lam Bee Trading Pte Ltd	2 Sungei Kadut Street 3, S(729137)	Wholesale of logs, sawn timber, plywood and related products
Hup Huat Timber Co Pte Ltd	4 Sungei Kadut Street 3, S(729139)	Manufacturer of sawn-timber
Seng Hin Sawmill Co Pte Ltd	6 Sungei Kadut Street 3, S(729141)	Wholesale of logs, sawn timber, plywood and related products
Beng Cheng Metal Pte Ltd	7 Sungei Kadut Street 4, S(729037)	Manufacture of basic iron and steel (including smelting)
Rightrac Pte Ltd	9 Sungei Kadut Street 4, S(729039)	Renting of industrial machinery and equipment and manufacture
Huasing Construction and Trading Pte Ltd	9 Sungei Kadut Street 4, S(729039)	Building construction and manufacture and repair of construction machinery and parts
Beng Hock Mechanical Engineering	11 Sungei Kadut Street 4, S(729041)	Manufacture and repair of machinery and machine-tools - metal forming types (e.g. forging press, cold heading machines, press breaks)
Leng Teck Impex Pte Ltd	11A Sungei Kadut Street 4, S(729065)	Wholesale of logs, sawn timber, plywood and related products
Highway International Pte Ltd	13 Sungei Kadut Street 4, S(729064)	Manufacture of asphalt premix, bituminous products, trading of construction materials and specialists in civil and roadworks.
Kenwood Industries Pte Ltd	10 Sungei Kadut Street 3, S(729144)	Manufacturer & fabricator of wood-based products, wood-moulding, door frame, furniture parts, kitchen cabinet door, panelling, building wood materials for local market & export
JS Timber Pte Ltd	14 Sungei Kadut Street 3, S(729145)	Manufacture of furniture and fixtures of wood (including upholstery)
Hertslet Woodworking Pte Ltd	14 Sungei Kadut Street 3, S(729145)	Building construction and manufacture of furniture and fixtures of wood (including upholstery)
MKE Timber Solutions Pte Ltd	16 Sungei Kadut Street 3, S(729147)	Manufacture of wooden containers
Sim Seng Hin Sawmill Co Pte Ltd	5 Sungei Kadut Street 3, S(729140)	Import/export of timber and manufacturers of timber related products - tropical sawn timber, wood flooring, wooden door and door frame etc.
Edgeband Pte Ltd	5 Sungei Kadut Street 3, S(729140)	Wholesale trade of a variety of goods
Kitchen & Kitchen Pte Ltd	5 Sungei Kadut Street 3, S(729140)	Wholesale of furniture, home furnishings and other household equipment
Collaborate Pte Ltd	5 Sungei Kadut Street 3, S(729140)	Renovation contractors
Tong Nam Timber Co Pte Ltd	3 Sungei Kadut Street 3, S(729138)	Specialised Storage (e.g. wine warehousing, document storage and warehousing)
Violet House Design	3 Sungei Kadut Street 3, S(729138)	Manufacture of furniture and fixtures of wood (including upholstery)
EDL Pte Ltd	43 Sungei Kadut Street 1, S(729348)	Manufacture of builders' carpentry and joinery
Aik Kee Chan Pte Ltd	41 Sungei Kadut Street 1, S(729345)	Wholesale of logs, sawn timber, plywood and related products
Sin Gee Huat Hardware	41 Sungei Kadut Street 1, S(729345)	Recycling of metal waste and scrap and collection of waste
Advance Surface Industries Pte Ltd	39 Sungei Kadut Street 1, S(729344)	Blasting and coating services
Unicane Furniture Pte Ltd	37 Sungei Kadut Street 1, S(729342)	Manufacture of furniture
Unicane Merchandising Co Pte Ltd	37 Sungei Kadut Street 1, S(729342)	Manufacture of furniture and building construction
Unicane Industries Pte Ltd	37 Sungei Kadut Street 1, S(729342)	Manufacture of furniture of rattan and cane and wholesale trade of a variety of goods without a dominant product
Uniquartz Singapore Pte Ltd	37 Sungei Kadut Street 1, S(729342)	Wholesale of construction materials, hardware, plumbing and heating equipment and supplies (eg cement, sand) and wholesale trade of a variety of goods
Nan Wong Trading	37 Sungei Kadut Street 1, S(729342)	Wholesale trade of a variety of goods
Tai Giap Pte Ltd	29 Sungei Kadut Street 2, S(729242)	Wholesale of timber and logs
Ei Corporation Pte Ltd	27 Sungei Kadut Street 2, S(729240)	Manufacture of builders' carpentry and joinery
Cleanfil Technology Pte Ltd	27 Sungei Kadut Street 2, S(729240)	Manufacture and repair of construction machinery and parts
Grandwork Building	7 Sungei Kadut Street 3, S(729142)	Manufacture Of Furniture And Fixtures Of Wood (including Upholstery)
Sunray Woodcraft Construction Pte Ltd	9 Sungei Kadut Street 3, S(729143)	Manufacture Of Furniture And Fixtures Of Wood (including Upholstery)
Sin Lian Seng Bolts & Nuts Pte Ltd	33 Sungei Kadut Street 1, S(729338)	Manufacture Of General Hardware (e.g Boots and Nuts)
Whye Wah Development & Construction Pte Ltd	31 Sungei Kadut Street 1, S(729337)	Manufacture of furniture and fixtures of wood (including upholstery) and building construction
Double-Trans Pte Ltd	4 Sungei Kadut Street 2, S(729226)	Building construction
Sen Wan Timber Pte Ltd	38 Sungei Kadut Street 2, S(729245)	Supplier for wood and timber product
Hock Huat Sawmill Co Pte Ltd	36 Sungei Kadut Street 2, S(729244)	Wholesale for timbers and logs
Shan Yi Interior Design & Decoration	36 Sungei Kadut Street 2, S(729244)	Building construction and manufacture of furniture and fixtures of wood (including upholstery)
Yeong Soon Cheong Pte Ltd	10 Sungei Kadut Street 2, S(729231)	Manufacture Of Furniture Of Rattan And Cane
The Stone Gallery by Hafary	18 Sungei Kadut Street 2, S(729236)	Showroom for tiles, stone, mosaic, wood and bathroom ware & fittings
Kaefer Prostar Pte Ltd	6 Sungei Kadut Street 2, S(729228)	Manufacture, building and repairing of ships, tankers and other ocean-going vessels
Prostar Contract Service Pte Ltd	6 Sungei Kadut Street 2, S(729228)	Building construction and other specialised construction and related activities
Prostar Contract Manufacturing Pte Ltd	6 Sungei Kadut Street 2, S(729228)	Manufacture of cement, lime and plaster
LHT Holdings Ltd	27 Sungei Kadut Street 1, S(729335)	Manufacturer, supplier of wooden boxes and wooden pallets for industrial usage. Timber import & export, recycling of wood waste, manufacturer of technical wood, greenflo flooring, door & door frame.
Kim Hiap Lee Co Pte Ltd	27 Sungei Kadut Street 1, S(729335)	Wholesale of logs, sawn timber, plywood and related products
LHT Marketing Pte Ltd	27 Sungei Kadut Street 1, S(729335)	Other business support service activities (eg junkets, administration of loyalty programmes) and wholesale trade of a variety of goods
SR Engineering Pte Ltd	25 Sungei Kadut Street 1, S(729330)	Building and repairing ships, tankers and ocean going vessels
Keong Hong Construction Pte Ltd	9 Sungei Kadut Street 2, S(729230)	Building Construction
Kwong Lee Timber Industry and Trading	11 Sungei Kadut Street 2, S(729232)	Manufacture offurniture and fixtures of wood (including upholstery)
Samwoh Corporation Pte Ltd	25E Sungei Kadut Street 1, S(729333)	Building construction and manufacture of asphalt premix
Tong Seng Concrete Products Trading Pte Ltd	25E Sungei Kadut Street 1, S(729333)	Wholesale of structural clay and concrete products (eg mosaic tiles, bricks) and general contractors (building construction including major upgrading works)
Renew-crete Singapore Pte Ltd	25E Sungei Kadut Street 1, S(729333)	General contractors (non-building construction) and wholesale of structural clay and concrete products (eg mosaic tiles, bricks)
Techprecast Pte Ltd	25E Sungei Kadut Street 1, S(729333)	Foundation works (including micropiling, conventional piling and underpinning) and general contractors (non-building construction)
Hua Hong Pte Ltd	25D Sungei Kadut Street 1, S(729332)	Repair and maintenance of motorvehicles (including installation of parts & accessories)
Chong Sun Woods Products Pte Ltd	25A Sungei Kadut Street 1, S(729331)	Imported and exported of timber and doors
NSL Eastern Pretech Pte Ltd	15 Sungei Kadut Street 2, S(729234)	Manufacturer of precast concrete components, such as hollow-core floor slabs and planks, and E-mix plasters and mortars, Parma unit bathroom
Honest Trading Co	19 Sungei Kadut Street 1, S(729321)	Wholesale of chemicals and pharmaceuticals
HSC Pipeline Engineering	36 Sungei Kadut Avenue, S(729661)	Engineering and Construction of Pipeline infrastructure
Kim Lee Enterprise	38 Sungei Kadut Avenue, S(729662)	Installation of industrial machinery and equipment, mechanical engineering works and wholesale of other machinery and equipment
King Ley Machinery Pte Ltd	38 Sungei Kadut Avenue, S(729662)	Importer & Exporter of used trucks and construction machineries
Choon Bok Wood Industries Pte Ltd	40 Sungei Kadut Avenue, S(729664)	Importer of teak parquet flooring
Crown Asia Bus Builder Pte Ltd	44 Sungei Kadut Avenue, S(729667)	Manufacture and assembly of motor vehicles
TAA Metal Industries Pte Ltd	23E Sungei Kadut Street 1, S(729327)	Manufacture od structural metal products
G S Holdings Pte Ltd	23E Sungei Kadut Street 1, S(729327)	Repair and maintenance of motor vehicles (including installation of parts & accessories)
Hock Hoe Heng Trading Pte Ltd	23C Sungei Kadut Street 1, S(729326)	Wholesale of logs, sawn timber and plywood
USG Products (FE) Pte Ltd	23B Sungei Kadut Street 1, S(729325)	Wholesale of industrial machinery and equipment
Xiong Lue Furniture	23A Sungei Kadut Street 1, S(729324)	Manufacture of furniture and fixtures of wood
Redwood Interior Pte Ltd	48 Sungei Kadut Avenue, S(729671)	Manufacture of furniture and interior fitting

Name of Building	Address	Allocation/Usage
Likok Paper Recycling	23H Sungei Kadut Street 1, S(729329)	Recycling and repacking of recycled paper
Leigh Mardon Pacific Packaging Pte Ltd	25J Sungei Kadut Street 1, S(7293334)	Packaging supply store
Joo Cheng Enterprise Pte Ltd	23F Sungei Kadut Street 1, S(729328)	Manufacture of IM3 metal bulk bin, hooklift contanier & industrial waste container
D&R Chemicals	23F Sungei Kadut Street 1, S(729328)	Manufacture of basic chemicals except fertilisers and nitrogen and wholesale of chemicals and chemical products
White Horse Ceramic Pte Ltd	1 Sungei Kadut Way, S(728770)	Wholesale of ceramic tile
Seng Lee International Pte Ltd	45 Sungei Kadut Avenue, S(729668)	Wholesale of metals and metal products
Thiam Peng Trading Pte Ltd	5 Sungei Kadut Way, S(728781)	Wholesale of logs, sawn timber, plywood and manufacture of furniture an dfixtures of wood
Hao Ting Furniture and Decoration	5 Sungei Kadut Way, S(728781)	Manufacture of furniture and fixtures of wood (including upholstery)
Tak Products & Services Pte Ltd	41 Sungei Kadut Avenue, S(729665)	Manufacture of laminboard, particle board and panels
Hup Chung Tentage System Pte Ltd	9 Sungei Kadut Way, S(728773)	Rental of Tentages, air conditioner and air cooling system
Ewins Pte Ltd	39 Sungei Kadut Avenue, S(729663)	Manufacture of builder's carpentry
Wy Steel Construction Pte Ltd	9A Sungei Kadut Way, S(728779)	Steel fabricator
Durotec Industries Pte Ltd	15 Sungei Kadut Way, S(728775)	Manufacture of Furniture and fixtures of wood
Hys Enterprise Pte Ltd	11 Sungei Kadut Way, S(728774)	Manufacture of furniture and fixtures of wood
Matsushita Greatwall Corporation Pte Ltd	13 Sungei Kadut Way, S(728792)	Manufacturer of mattress, sofa and upholstery products
Tan Chiang Brother's Corporation Pte Ltd	34 Sungei Kadut Street 1, S(729339)	Import and export of marble and granite
Hot Spring Stone Pte Ltd	34 Sungei Kadut Street 1, S(729339)	Building construction and cutting, shaping and finishing of stone (including tomb-stones and furniture of stone or marble)
Guan Chuan Engineering Construction Pte Ltd	28 Sungei Kadut Way, S(729570)	Building construction and manufacture of steel structural component
Teambuild Construction Pte Ltd	32 Sungei Kadut Way, S(728787)	Builders
Yi Hup Metal & Engineering Pte Ltd	32 Sungei Kadut Way, S(728787)	Manufacture of steel structural component and manufacture of metal doors, window and door frames, grilles and gratings
Joo Loong Engineering Pte Ltd	32 Sungei Kadut Way, S(728787)	Engineering design and consultancy activities and manufacture of steel structural component
YMD Pte Ltd	24 Sungei Kadut Way, S(728780)	Manufacture of furniture
Arian Engineering Corporation Pte Ltd	22 Sungei Kadut Way, S(728777)	Servicing and distribution of lifts, cranes
International Testing Co Pte Ltd	22 Sungei Kadut Way, S(728777)	General building engineering design and consultancy services and installation and erection of building equipment (eg lifts, escalators, travellators)
Venture Logistics and Engineering	20A Sungei Kadut Way, S(728785)	Mechnical Engineering
Liannex Corporation Pte Ltd	18 Sungei Kadut Way, S(728789)	Manufacture and assembly of motor vehicles
Mandai Connection	7 Mandai Link, S(728653)	Furniture, Engineering, Glass systems
Ringo Civil Engineering	566 Woodlands Road, S(728697)	Building and construction
Tecsia Lubricants Pte Ltd	2A Mandai Estate, S(729928)	Manufacture of basic chemicals
M-Space	6D Mandai Estate, S(729938)	Commercial properties
Transmark FCX	82 Mandai Estate, S(729920)	Wholesale of other machinery and equipment
Thermal Pte Ltd	96 Mandai Estate, S(729927)	Installation, sale, service of industrial air conditoning and refridgeration
LTS Furniture Manufacturing Pte Ltd	90 Mandai Estate, S729924)	Manufacture of furniture and fixtures of wood (including upholstery)
Mandai Industrial Building	30 Mandai Estate, S(729918)	Factory equipment supplier
Innovation Place	31 Mandai Estate, S(729933)	Freehold commercial property
Lian Bee Metal	24 Sungei Kadut Way, S(729678)	Supplier of steel reinforcement bars
NS Tradings	22 Sungei Kadut Avenue, S(729657)	Manufacture of furniture and fixtures of wood
Hup Huat Glass Pte Ltd	20 Sungei Kadut Avenue, S(729655)	Manufacture of glass and glass products
Heng Ann Engineering Pte Ltd	21 Sungei Kadut Avenue, S(729656)	Installation of industrial machinery and equipment, mechnical engineering works
Wee Tee Tong Chemicals Pte Ltd	18 Sungei Kadut Street 3, S(729149)	Manufacture of chemicals
Siang Chin Furniture (1996)	10 Sungei Kadut Way, S(728782)	Retail sale of furnitures
Nk Roof & Facade Pte Ltd	10 Sungei Kadut Way, S(728782)	General Contractor
G&C General Contractors	10 Sungei Kadut Way, S(728782)	Building construction for Pilling and structuring
Lamchuan Import-Export Pte Ltd	12 Sungei Kadut Way, S(728778)	Manufacture of Furniture
Akzo Nobel Adhesives Pte Ltd	14 Sungei Kadut Way, S(728788)	Manufacture of adhesives and sealants
Systmz Pte Ltd	16 Sungei Kadut Way, S(728793)	Manufacture of Furniture and fixtures primarily of metal
Fresh Look Construction Pte Ltd	5 Sungei Kadut Street 2, S(729227)	Renovation contractors and manufacture of furniture and fixtures of wood (including upholstery)
Tien Seng Marble Pte Ltd	38 Sungei Kadut Street 1, S(729343)	Cutting, shaping and finishing of stone (including tomb-stones and furniture of stone or marble)
Ker & Ker Co Pte Ltd	36 Sungei Kadut Street 1, S(729341)	Import, export and manufacture of sawn timber, furniture and plywood
Maclloyd Industrial Pte Ltd	31 Sungei Kadut Street 2, S(729243)	Wholesale of logs, sawn timber, plywood and related products
Woodlands Auto Spare Pte Ltd	26 Sungei Kadut Avenue, S(729659)	Wholesale of parts and accessories for vehicles
Wong Coco Pte Ltd	3 Sungei Kadut Way, S(729771)	Wholesale of confectionery and bakery products
KT&T Group of Constructors	31 Sungei Kadut Avenue, S(729660)	Building construction and management consultancy services
Lee Wung Wooden Boxes Co Pte Ltd	1A Sungei Kadut Street 4, S(729031)	Manufacture of wooden containers with wholesale trade of a variety of goods
Luxx Newhouse Pte Ltd	40 Sungei Kadut Street 2, S(729246)	Building construction and other business support service activities (eg junkets, administration of loyalty programmes)
Creative Polymer Industries	35 Sungei Kadut Street 1, S(729340)	Building construction
JS Metal Pte Ltd	2C Mandai Estate, S(729900)	General contractors (building construction including major upgrading works) with building construction

Name of Building	Address	Allocation/Usage
Ri Dong Corporation Pte Ltd	3 Sungei Kadut Avenue, S(729640)	Civil engineering
Thong Huat Bros	4 Sungei Kadut Avenue, S(729641)	Civil engineering
Tong Guan Plant Pte Ltd	6 Sungei Kadut Avenue, S(729643)	Wholesale of industrial machinery and equipent, Manufacture and repair of other special purpose machinery
South Sea Rattan Cane Processing Factory	9 Sungei Kadut Avenue, S(729646)	Rattan Processing
Soon Hup Auto Parts Trading Pte Ltd	11 Sungei Kadut Avenue, S(729647)	Wholesale of parts and accessories for vehicles and wholesale trade of a variety of goods
De-Art Glass Pte Ltd	13 Sungei Kadut Avenue, S(729649)	Manufacture of glass and glass products
Chung Ah Engineering Pte Ltd	15 Sungei Kadut Avenue, S(729651)	Engineering services for metal fabrication, rolling, pressing and shearing
Eurokars Centre	12 Sungei Kadut Avenue, S(729648)	Repair and maintenance of motor vehicles (including installation of parts and accessories)
Thl Foundation Equipment Pte Ltd	8 Sungei Kadut Avenue, S(729645)	Distribution of geotechnical equipment
Chong Timber Pte Ltd	5 Sungei Kadut Avenue, S(729642)	Manufacture of moulded wooden products and wholesale of logs, sawn timber, plywood and related products
D. S. Brown Singapore Ltd	1 Sungei Kadut Avenue, S(729680)	Manufacture of steel structural components
Pacific Forest Products Pte Ltd	1 Sungei Kadut Avenue, S(729680)	Manufacture of prefabricated wooden building structures (including parquet flooring) and general contractors (building construction including major upgrading works)
Da Di Glass (Singapore) Pte Ltd	14 Sungei Kadut Avenue, S(729650)	General Contractors, Manufacture of glass and glass products
MSD Engineering	16 Sungei Kadut Avenue, S(729652)	Building and repairing ships, tankers nad ocean going vessels
Ngam Brothers Cushion	399E Woodlands Road, S(678005)	Manufacture of Furniture and Fixtures of Wood (including Upholstery)
Aces Power Engineering & Trading Pte Ltd	389H Woodlands Road, S(677961)	Manufacture and Repair of Switchgear and Switchboard Apparatus (including Switches, Circuit Breakers and Electrical Control Panels)
Wong Wing Engineering Work	389A Woodlands Road, S(678022)	Manufacture of Metal Cans, Containers and Related Products
Toh Painting & Services Pte Ltd	391C Woodlands Road, S(677966)	Distributor for Repair and Maintenance of Motor Vehicles (including Installation of Parts & Accessories) and Manufacture of Parts and Accessories for Motor Vehicles
Then Lian Engineering Pte Ltd	393N Woodlands Road, S(678028)	Manufacture of Parts and Accessories for Motor Vehicles (e.g. Engine Parts, Brakes, Clutches, Axles, Gear Boxes)
Sin Yew Hup Welding	393M Woodlands Road, S(677981)	Distributor for Repair and Maintenance of Motor Vehicles (including Installation Of Parts & Accessories)
Hong Ann Aluminium Works	393 Woodlands Road, S(677972)	Building construction and manufacture of metal doors, window and door frames, grilles and gratings
Eng Heng Engineering Supply	395G Woodlands Road, S(677988)	Building Construction and Building and Repairing of Ships, Tankers and Other Ocean-going Vessels
Pun Engineering Work	395N Woodlands Road, S(678030)	Manufacture and Repair of Gears, Gearing and Driving Elements
Lai Panel Beater	399L Woodlands Road, S(678037)	Repair and maintenance of motor vehicles (including installation of parts & accessories) and installation of industrial machinery and equipment, mechanical engineering works
Long Sheng Motor Service	399G Woodlands Road, S(678007)	Retail sale of motor vehicles except motorcycles and scooters and manufacture of parts and accessories for motor vehicles (eg engine parts, brakes, clutches, axles, gear boxes)
Maco Engineering Works	399C Woodlands Road, S(678036)	Installation of industrial machinery and equipment, mechanical engineering work
Hock Yew Trading Pte Ltd	399F Woodlands Road, S(678006)	Retail sale of motor vehicles except motorcycles and scooters and general insurance (except marine and import, export & credit insurance)
Ho Liang Heng Auto Workshop (1994)	399K Woodlands Road, S(678009)	Repair and maintenance of motor vehicles (including installation of parts & accessories)
Jim Seng Huat	399 Woodlands Road, S(678002)	Retail sale of textiles and manufacture of other textiles (eg upholstery filling)
Tuas Building	399 Woodlands Road, S(678002)	Building construction and renovation contractors
Luxury Car Spray Service	397L Woodlands Road, S(678034)	Repair and maintenance of motor vehicles (including installation of parts & accessories)
Joon Seng Motor Trading Co	397C Woodlands Road, S(678033)	Retail sale of motor vehicles except motorcycles and scooters with repair and maintenance of motor vehicles (including installation of parts & accessories)
Chee Chai Motor Repairer	397B Woodlands Road, S(678032)	Repair and maintenance of motor vehicles (including installation of parts & accessories)
Hing Lee Motor Car Repair & Welder Works	397D Woodlands Road, S(677996)	Repair and maintenance of motor vehicles (including installation of parts & accessories)
Teng Motor Towing Service	395E Woodlands Road, S(677986)	Crane services (loading and unloading of cargo)
Jin Siong Motor Trading	395B Woodlands Road, S(678017)	Repair and maintenance of motor vehicles (including installation of parts & accessories)
Tower Kool Air-con Engineering Works	395H Woodlands Road, S(677989)	Building construction and installation of industrial machinery and equipment, mechanical engineering works
Ban Cheong Auto Company	393 Woodlands Road, S(677972)	Repair and maintenance of motor vehicles (including installation of parts & accessories) and retail sale of spare parts and accessories for motor vehicles
Eng Soon Paining Services	393J Woodlands Road, S(677978)	Wholesale of motor vehicles except motorcycles and scooters with car washing
Eng Eng Kee Motor Trading	393J Woodlands Road, S(677978)	Repair and maintenance of motor vehicles (including installation of parts & accessories) with retail sale of tyres and batteries
Seng Huat Materials Enterprise	393K Woodlands Road, S(677979)	Renovation contractors with building construction
Eng Wah Hin Tyre & Battery Service	393G Woodlands Road, S(677977)	Retail sale of motor vehicles except motorcycles and scooters
Then Lian Engineering Pte Ltd	393N Woodlands Road, S(677977)	Manufacture of parts and accessories for motor vehicles (eg engine parts, brakes, clutches, axles, gear boxes) and manufacture and repair of marine engine
Sin Yew Hup Auto Pte Ltd	393M Woodlands Road, S(677981)	Repair and maintenance of motor vehicles (including installation of parts & accessories)
Seng Hong Kee Company	393F Woodlands Road, S(677976)	Repair and maintenance of motor vehicles (including installation of parts & accessories)
Sim Spray Painting Service	393C Woodlands Road, S(677026)	Repair and maintenance of motor vehicles (including installation of parts & accessories)
Sheng Khoon Motor Service	393 Woodlands Road, S(677972)	Repair and maintenance of motor vehicles (including installation of parts & accessories)
Kong Hwee Motor Vehicle Repair	393 Woodlands Road, S(677972)	Repair and maintenance of motor vehicles (including installation of parts & accessories)
Foo Lip Motor Vehicle Spray Painting	393B Woodlands Road, S(677974)	Repair and maintenance of motor vehicles (including installation of parts & accessories)
Chin Seng Tyre and Battery Service	387E Woodlands Road, S(677950)	Retail sale of tyres and batteries
Chip Guan Tyres & Batteries Co	387K Woodlands Road, S(677955)	Retail sale of sports apparel and equipment (including bicycles, boats and healthcare equipment) with repair and maintenance of motor vehicles (including installation of parts & accessories)
Sin Keong Trading Pte Ltd	387 Woodlands Road, S(677946)	Retail sale of tyres and batteries
Lian Lee Hardware Auto Spare Parts Co	387G Woodlands Road, S(677952)	Wholesale of parts and accessories for vehicles
Teng Soon Auto Spare Parts Trading	387H Woodlands Road, S(677953)	Wholesale of parts and accessories for vehicles
Lian Hup Brothers Trading Company	387C Woodlands Road, S(677949)	Retail sale of motorcycles and scooters
Chek Kong Motor Pte Ltd	387B Woodlands Road, S(677948)	Repair and maintenance of motor vehicles (including installation of parts & accessories) with retail sale of motorcycles and scooters
Eng Hup Autoparts Accessories Co	387J Woodlands Road, S(677954)	Wholesale of parts and accessories for vehicles
Bukit Timah Auto Air Cond (Pte) Ltd	391 Woodlands Road, S(677963)	Repair and maintenance of motor vehicles (including installation of parts & accessories)
Triarc Technologies & Engineering Services Pte Ltd	391D Woodlands Road, S(677967)	Wholesale trade of a variety of goods
Ban Heng Lee Automotive Spare Parts Co	391H Woodlands Road, S(677970)	Wholesale of parts and accessories for vehicles with retail sale of sewing and clothing accessories (eg button, thread, lace, zip, belt, tie)
William's Auto Pte Ltd	391B Woodlands Road, S(677965)	Retail sale of motor vehicles except motorcycles and scooters
Au Swee Ling Machinery & Engineering	389E Woodlands Road, S(677959)	Installation of industrial machinery and equipment, mechanical engineering works
Guarantee Industries Engineering Pte Ltd	389 Woodlands Road, S(677957)	Installation of industrial machinery and equipment, mechanical engineering works
Soon Yuen Trading	389E Woodlands Road, S(677959)	Manufacture and repair of machinery for food products processing
Hipac Motor Service	389G Woodlands Road, S(678024)	Repair and maintenance of motor vehicles (including installation of parts & accessories) and motor vehicle towing services
Wee Gim Auto Service	389G Woodlands Road, S(678024)	Repair and maintenance of motor vehicles (including installation of parts & accessories)

Appendix DD

Vector Sensitive Receptors

Table DD-1: Classification of Sensitive Receptors

Environmental Parameter	Receptor Sensitivity		
	Priority 1	Priority 2	Priority 3
Vectors	• Human habitats with natural ventilation [1] less than 50m away from construction worksites.	• Human habitats with natural ventilation between 50m and 150m from construction worksites.[2] • Buildings with mechanical ventilation[3] within 150m from construction worksites. • Public footpath, playing fields, parks and public areas for utility and transport within 150m from construction worksites.	• Human habitats with natural ventilation between 150m and 400m away from construction worksites[4] • Buildings with mechanical ventilation between 150m and 400m away from construction worksites. • Public footpath, playing fields, parks and public areas for utility and transport between 150m and 400m away from construction worksites.

Table DD-2: Vector Sensitive Receptors

Distance from the Project Footprint	Land Use	Receptor Sensitivity
Within 50m	Residential: 1. 634A, 634C Senja Road, Senja Gateway 2. 632A Senja Road, Senja Green 3. 42-46 (Even Number) Choa Chu Kang Street 64, The Quintet 4. 690D, 691B Choa Chu Kang Crescent	Priority 1
	Commercial: 1. BHL Factories (2A, 2B, 2C Mandai Estate) Recreational: 1. The Rail Corridor Utility: 1. Gali Batu Train Depot Civic and Community Institution: 1. Sungei Kadut Fire Post Industrial: 1. 19, 23F, 25E, 34 Sungei Kadut Street 1 2. 9, 10, 11, 15, 18, 27, 29, 36 Sungei Kadut Street 2 3. 5 Sungei Kadut Street 3 4. 6 Sungei Kadut Street 3 *(*only during its operation with no construction works)* [5]	Priority 2

[1] Human habitats with natural ventilation represent buildings with opened window where human resides, with long-term risk of exposure to vector impact, e.g. residential household, etc.
[2] According to Ministry of Health (MOH) Singapore, a dengue cluster is defined as two or more cases epidemiologically linked by place (within 150m) and time (within 14 days).
[3] Buildings with mechanical ventilation represent buildings or venues where human activity is conducted with mostly enclosed condition and installed with air-conditioning, or of lesser risk of exposure to vector impact, e.g. shops, worships places, industrial, schools, hospital, etc.
[4] According to WHO Fact Sheet, the maximum distance that a matured female Aedes mosquito can fly is 400m.
[5] ***Note:** Underpinning works may be required at this location due to the construction of this Project, hence it will not be considered as a vector sensitive receptor during the conduct of the underpinning works and/or during the period of without any human operations.

Distance from the Project Footprint	Land Use	Receptor Sensitivity
	5. 17 Sungei Kadut Way 6. 1, 2, 3, 5, 7, 9, 11, 24, 26, 31, 33, 36, 38, 39, 40, 42, 44 Sungei Kadut Avenue	
Between 50m to 150m	Residential: 1. 36-40 (Even Number) Choa Chu Kang Street 64, The Quintet 2. 28-32 (Even Number) Choa Chu Kang Street 64, The Windermere 3. 656, 657, 661-663, 690A, 690C, 691A, 692A, 692B Choa Chu Kang Crescent 4. 641 Choa Chu Kang Street 64 5. 627 Senja Road, Senja Grand 6. 632B, 633, 633A-633C, 634B Senja Road, Senja Green 7. 635A-635C Senja Road, Senja Gateway 8. The guardhouse at Regent Grove Condominium	Priority 2
	Place of Worship: 1. Sri Arasakesari Sivan Temple *(*only during its operation with no site work)*[6] Commercial: 1. Mandai Connection 2. M-Space 3. Innovation Place (31 Mandai Estate) 4. Eurokars Centre 5. Sunray Building 6. Grandwork Building 7. JTC Trendspace (Furniture Hub) 8. 88-96 (Even Number) Mandai Estate Industrial: 1. 21, 23, 23A, 23B, 23H, 25A, 25D, 36 Sungei Kadut Street 1 2. 8, 15, 31, 38 Sungei Kadut Street 2 3. 3, 4, 10, 14 Sungei Kadut Street 3 4. 5, 7 Sungei Kadut Street 4 5. 41, 45, 46, 48, 48A Sungei Kadut Avenue 6. 5-15 (Odd Number), 9A Sungei Kadut Way 7. 6A Mandai Estate 8. 4-8 (Even Number), 13-16, 18-22 (Even Number) Sungei Kadut Avenue 9. 387J-387L, 393, 393A-393H, 393H-393N, 393P, 395, 395A-395H, 395J-395N, 395P, 397, 397A-397H, 397J-397L, 399, 399A- 399H, 399J-399LWoodlands Road	Priority 2
Between 150m to 400m	Residential: 1. 635 Senja Road, Senja Gateway 2. 636A-636D Senja Road, Senja Parc View 3. 625, 625B, 626, 629, 629B 630, 631 Senja Road, Senja Grand 4. 633C Senja Road, Senja Green 5. 610, 611, 612-622 (Even Number), 613B Senja Road	Priority 3

[6] ***Note:** Underpinning works may be required at this location due to the construction of this Project, hence it will not be considered as a vector sensitive receptor during the conduct of the underpinning works and/or during the period of without any human operations.

Distance from the Project Footprint	Land Use	Receptor Sensitivity
	6. 162-164 Jalan Teck Whye 7. 639, 640, 642, 643 Choa Chu Kang Street 64 8. 632A, 632-638, 790 Choa Chu Kang North 6 9. Block 56 Yew Mei Green Condominium 10. Regent Grove Condominium 11. 658-660, 664-668, 673, 673A, 688C, 690B Choa Chu Kang Crescent 12. 687A-687D, 688A, 688B, 689A, 689B, Choa Chu Kang Drive 13. 619-621 Choa Chu Kang North 7 14. 38 Teck Whye Crescent 15. 20-26 (Even Number) Choa Chu Kang Street 64, The Windermere	
	Educational: 1. Yew Tee Primary School 2. Jurong Pioneer Junior College 3. Teck Whye Primary School 4. Teck Whye Secondary School 5. West View Primary School 6. West Spring Secondary School 7. Skool4Kidz Preschool @ Senja Parc View, 636C Senja Road, Senja Gateway Place of Worship: 1. Senja Soka Centre Commercial: 1. Avenue Engineering Building 2. Tac Centre 3. LUXX Newhouse Design Centre 4. Tiong Aik Building 5. AOS Industrial Building 6. Star Furniture Group 7. Hua Kok Industrial Building 8. Mandai Food Link 9. SWI Warehouse Complex (20, 22, 24, 26, 28 Mandai Estate) 10. Innovation Place (25, 27, 29 Mandai Estate) 11. Multi-wide Industrial Building 12. Eldix 13. Foodfab@Mandai (U/C) 14. Mandai Industrial Building 15. 8, 10, 12, 16, 80-86 (Even Number) Mandai Estate 16. Senja Centre 17. 673B Choa Chu Kang Crescent Food Court 18. Matsushita House Singapore 19. 2 Senja Close 20. CKR Paints & Coating Specialist Pte Ltd Recreational: 1. Fitness Station at Choa Chu Kang Drive 2. Playground at Choa Chu Kang Drive 3. Playground at Choa Chu Kang Street 64 4. Senja Grand Playground 5. Park at Senja Parc View 6. Jurong Pioneer Junior College Field 7. Teck Whye Secondary School Field	Priority 3

Distance from the Project Footprint	Land Use	Receptor Sensitivity
	8. West View Primary School Field Utility: 1. Shell, 695 Mandai Road Civic and Community Institution: 1. Westlite Mandai Dormitory (32, 34, 36 Mandai Estate) Healthcare: 1. Pacific Healthcare Nursing Home II @ Bukit Panjang 2. MWS Nursing Home - Yew Tee Mass Rapid Transit: 1. Yew Tee MRT Station (NS5) Industrial: 1. 25J, 25, 27, 31, 33, 35, 37-44, 46, 48-52, 54, 56, 58, 42A, 50A, 52A Sungei Kadut Street 1 2. 4, 6, 19, 19A, 23 Sungei Kadut Street 2 3. 1, 2, 15-18, 20, 22, 24 Sungei Kadut Street 3 4. 1, 3, 4, 6, 8, 9, 10-13, 15-17, 20-26 (Even Number), 1A, 11A, 26A Sungei Kadut Street 4 5. 3 Sungei Kadut Lane 6. 58, 60, 62, 65, 69, 71, 81 Sungei Kadut Drive 7. 17, 19, 21, 47, 49, 50 Sungei Kadut Avenue 8. 1, 3, 8-30 (Even Number), 16A, 20A Sungei Kadut Way 9. 2, 3, 6 Mandai Link 10. 40, 359, 375, 385, 387, 387A-387H, 389, 389A-389H, 389J, 391, 391A-391H, 391J Woodlands Road	

Appendix EE

Traffic Count Survey

AECOM TRAFFIC SURVEYS

As part of AECOM new project at Choa Chu Kang North 7, classified traffic survey is required at junction of Choa Chu Kang Crescent and Choa Chu Kang North 7. The location of surveyed junction and its traffic movements is shown in Figure 1 below. The survey results are consolidated into traffic diagrams for the AM and PM peak periods in PCUs/h. The traffic counts will be classified in full accordance to LTA guidelines.

8 Vehicle Classification

Classification	PCU Factor
Cars	1.0
Motorcycle	0.7
Light Goods Vehicle	1.3
Single Unit Truck	2.25
Aritculated Truck	2.25
Bus	2.5
Minibus	1.6
Articulated Bus	2.9

The traffic counts were conducted for the following time periods on 28 September 2021 (Tuesday).

Survey Timings: 0000-2359 (24hrs)

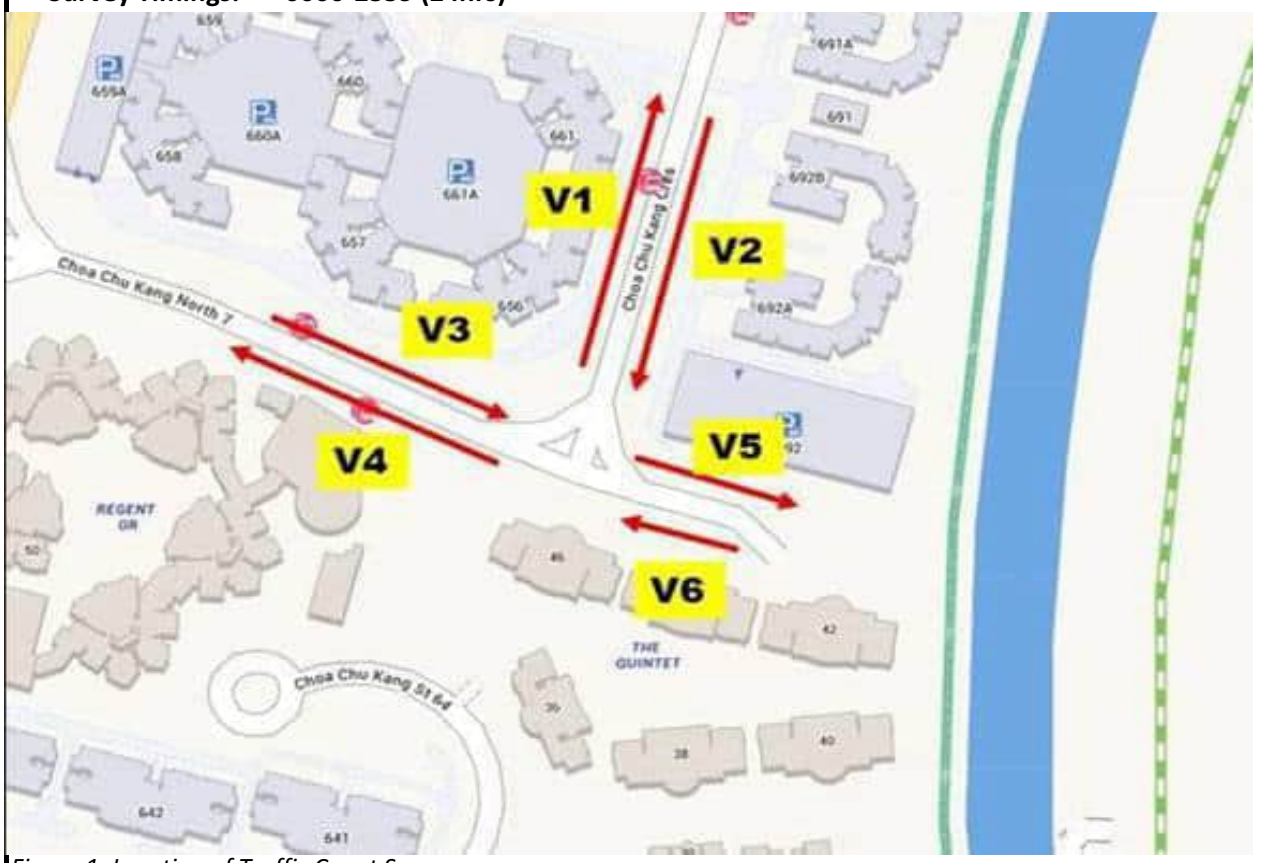
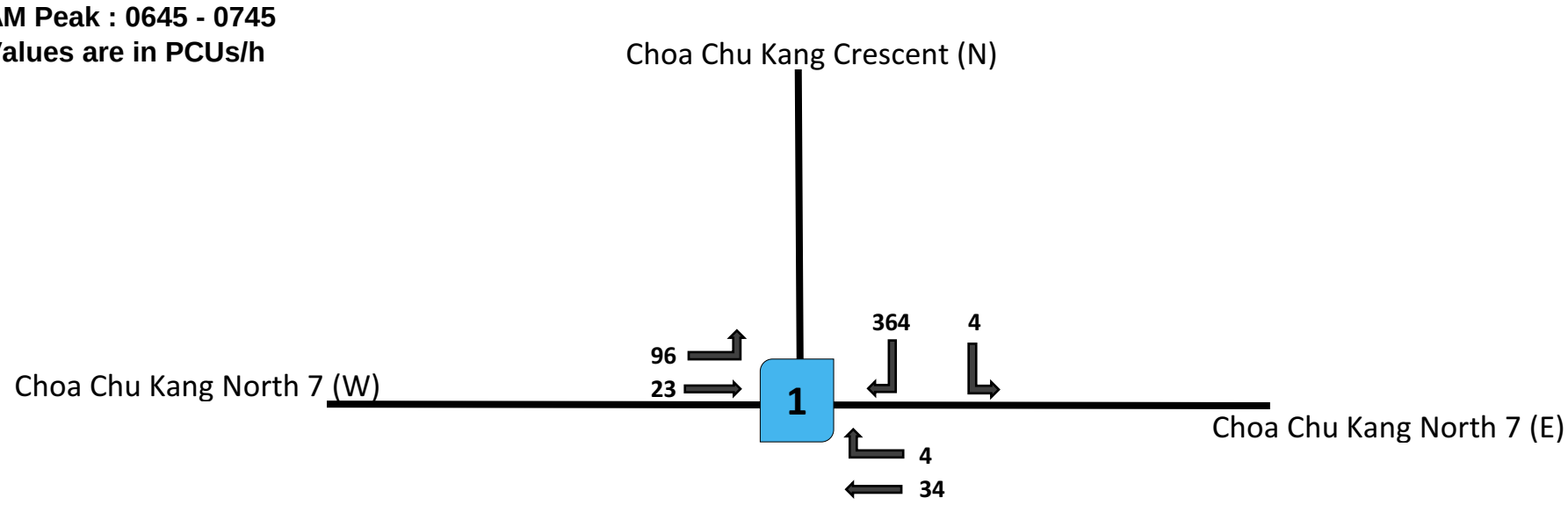
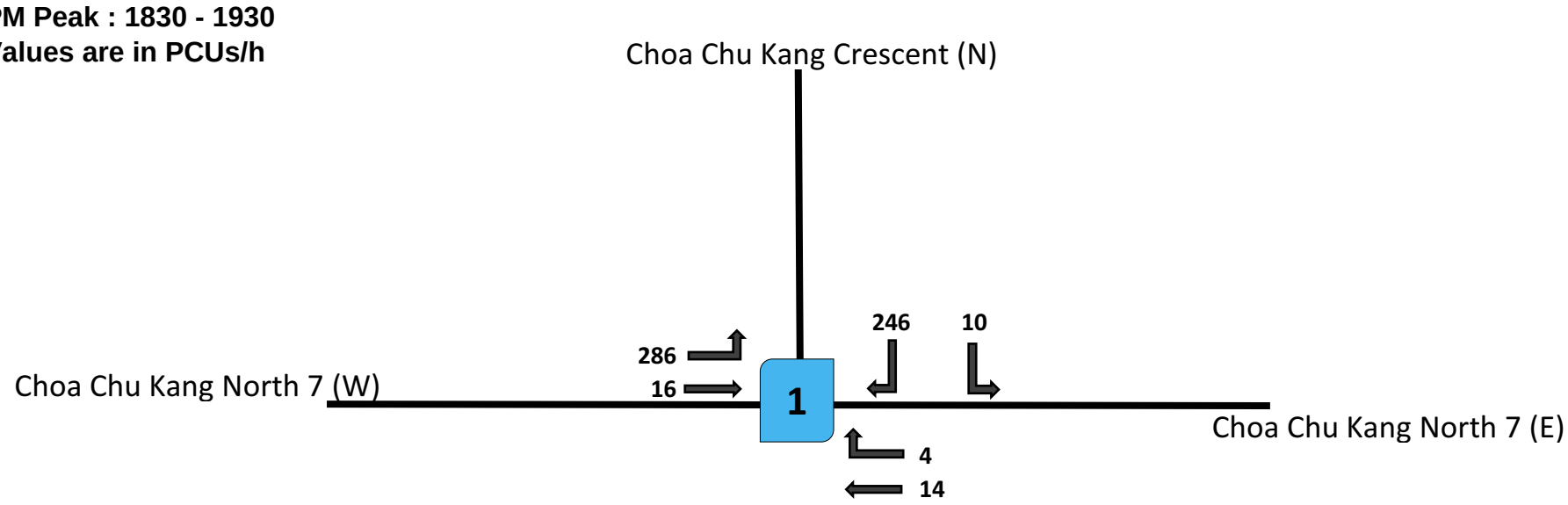


Figure 1: Location of Traffic Count Survey

Traffic Diagram
2021 Traffic Counts
AM Peak : 0645 - 0745
Values are in PCUs/h



Traffic Diagram
2021 Traffic Counts
PM Peak : 1830 - 1930
Values are in PCUs/h



	Choa Chu Kang Crescent (N)				Choa Chu Kang North 7 (E)				n/a				Choa Chu Kang North 7 (W)					
	Southbound				Westbound				Northbound				Eastbound					
	Right	Thru	Left	U-turn	Right	Thru	Left	U-turn	Right	Thru	Left	U-turn	Right	Thru	Left	U-turn	**PCU/15 min**	**PCU/h**
12:00 AM	17	0	0	0	1	1	0	0	0	0	0	0	0	2	11	1	**33**	
12:15 AM	6	0	0	0	0	1	0	0	0	0	0	0	0	0	8	0	**15**	
12:30 AM	10	0	0	0	0	1	0	0	0	0	0	0	0	0	9	0	**20**	
12:45 AM	5	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	**13**	**81**
1:00 AM	16	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	**22**	**70**
1:15 AM	5	0	1	0	1	0	0	0	0	0	0	0	0	0	14	0	**21**	**76**
1:30 AM	3	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	**7**	**63**
1:45 AM	4	0	0	0	1	0	0	0	0	0	0	0	0	0	6	0	**11**	**61**
2:00 AM	4	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	**9**	**48**
2:15 AM	7	0	1	0	0	1	0	0	0	0	0	0	0	0	4	0	**13**	**40**
2:30 AM	1	0	2	0	0	2	0	0	0	0	0	0	0	0	3	0	**8**	**41**
2:45 AM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	**31**
3:00 AM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	**5**	**27**
3:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	**2**	**16**
3:30 AM	3	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	**8**	**16**
3:45 AM	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	**4**	**19**
4:00 AM	5	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	**7**	**21**
4:15 AM	11	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	**14**	**33**
4:30 AM	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	**20**	**45**
4:45 AM	7	0	0	0	0	0	0	0	0	0	0	0	0	0	8	1	**16**	**57**
5:00 AM	18	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	**22**	**72**
5:15 AM	15	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	**19**	**77**
5:30 AM	8	0	0	0	0	1	0	0	0	0	0	0	0	0	8	0	**17**	**74**
5:45 AM	36	0	0	0	2	2	0	0	0	0	0	0	0	4	4	0	**48**	**106**
6:00 AM	42	0	1	0	1	2	0	0	0	0	0	0	0	2	10	0	**58**	**142**
6:15 AM	68	0	1	0	1	1	0	0	0	0	0	0	0	0	9	0	**80**	**203**
6:30 AM	64	0	0	0	0	11	0	0	0	0	0	0	0	2	11	0	**88**	**274**
6:45 AM	93	0	0	0	0	9	0	0	0	0	0	0	0	1	17	0	**120**	**346**
7:00 AM	105	0	1	0	1	10	0	0	0	0	0	0	0	3	18	0	**138**	**426**
7:15 AM	83	0	1	0	1	7	0	0	0	0	0	0	0	13	29	0	**134**	**480**
7:30 AM	83	0	2	0	2	8	0	0	0	0	0	0	0	6	32	0	**133**	**525**
7:45 AM	65	0	0	0	1	9	0	0	0	0	0	0	0	7	28	1	**111**	**516**
8:00 AM	75	0	3	0	2	8	0	0	0	0	0	0	0	12	30	0	**130**	**508**
8:15 AM	77	0	0	0	1	8	0	0	0	0	0	0	0	5	28	0	**119**	**493**
8:30 AM	66	0	0	0	1	7	0	0	0	0	0	0	0	2	36	0	**112**	**472**
8:45 AM	78	0	0	0	1	8	0	0	0	0	0	0	0	5	46	0	**138**	**499**
9:00 AM	69	0	4	0	0	3	0	0	0	0	0	0	0	1	46	0	**123**	**492**
9:15 AM	74	0	2	0	2	4	0	0	0	0	0	0	0	7	33	0	**122**	**495**
9:30 AM	49	0	0	0	1	4	0	0	0	0	0	0	0	6	37	0	**97**	**480**
9:45 AM	50	0	2	0	0	12	0	0	0	0	0	0	0	1	20	0	**85**	**427**
10:00 AM	50	0	0	0	0	2	0	0	0	0	0	0	0	3	23	0	**78**	**382**
10:15 AM	40	0	1	0	4	6	0	0	0	0	0	0	0	3	29	1	**84**	**344**
10:30 AM	60	0	4	0	3	7	0	0	0	0	0	0	0	6	32	0	**112**	**359**
10:45 AM	51	0	3	0	0	10	0	0	0	0	0	0	0	4	37	1	**106**	**380**
11:00 AM	34	0	0	0	0	9	0	1	0	0	0	0	0	5	30	0	**79**	**381**
11:15 AM	51	0	2	0	0	8	0	0	0	0	0	0	0	8	28	0	**97**	**394**
11:30 AM	40	0	2	0	0	7	0	0	0	0	0	0	0	2	35	0	**86**	**368**
11:45 AM	57	0	1	0	1	10	0	0	0	0	0	0	0	5	39	0	**113**	**375**
12:00 PM	45	0	0	0	1	4	0	0	0	0	0	0	0	4	39	0	**93**	**389**
12:15 PM	54	0	2	0	3	5	0	0	0	0	0	0	0	2	44	0	**110**	**402**
12:30 PM	49	0	1	0	0	3	0	0	0	0	0	0	0	4	39	0	**96**	**412**
12:45 PM	56	0	0	0	0	6	0	0	0	0	0	0	0	8	40	0	**110**	**409**
1:00 PM	51	0	1	0	0	6	0	0	0	0	0	0	0	0	39	0	**97**	**413**
1:15 PM	38	0	0	0	1	4	0	0	0	0	0	0	0	6	36	0	**85**	**388**
1:30 PM	37	0	0	0	0	14	0	0	0	0	0	0	0	10	21	0	**82**	**374**
1:45 PM	40	0	0	0	1	4	0	0	0	0	0	0	0	3	32	0	**80**	**344**
2:00 PM	41	0	0	0	0	4	0	0	0	0	0	0	0	5	30	1	**81**	**328**
2:15 PM	42	0	0	0	0	5	0	0	0	0	0	0	0	6	34	2	**89**	**332**
2:30 PM	37	0	0	0	0	2	0	0	0	0	0	0	0	5	26	0	**70**	**320**
2:45 PM	50	0	0	0	0	5	0	0	0	0	0	0	0	1	24	1	**81**	**321**
3:00 PM	23	0	0	0	0	3	0	0	0	0	0	0	0	1	22	0	**49**	**289**
3:15 PM	34	0	2	0	1	3	0	0	0	0	0	0	0	4	38	0	**82**	**282**
3:30 PM	41	0	3	0	1	3	0	0	0	0	0	0	0	1	28	0	**77**	**289**
3:45 PM	32	0	1	0	1	2	0	0	0	0	0	0	0	5	42	0	**83**	**291**
4:00 PM	43	0	3	0	0	4	0	0	0	0	0	0	0	2	35	0	**87**	**329**
4:15 PM	41	0	1	0	0	3	0	0	0	0	0	0	0	0	33	0	**78**	**325**
4:30 PM	45	0	1	0	0	6	0	0	0	0	0	0	0	4	46	0	**102**	**350**
4:45 PM	39	0	0	0	1	7	0	0	0	0	0	0	0	3	42	1	**93**	**360**
5:00 PM	33	0	0	1	2	1	0	0	0	0	0	0	0	3	54	0	**94**	**367**
5:15 PM	45	0	0	0	0	5	0	0	0	0	0	0	0	5	46	0	**101**	**390**
5:30 PM	55	0	0	0	0	6	0	0	0	0	0	0	0	4	71	0	**136**	**424**
5:45 PM	66	0	0	0	1	3	0	0	0	0	0	0	0	4	65	0	**139**	**470**
6:00 PM	72	0	2	0	1	9	0	0	0	0	0	0	0	5	63	0	**152**	**528**
6:15 PM	42	0	2	0	0	12	0	0	0	0	0	0	0	6	54	0	**116**	**543**
6:30 PM	67	0	1	0	0	7	0	0	0	0	0	0	0	1	87	0	**163**	**570**
6:45 PM	69	0	4	0	3	2	0	0	0	0	0	0	0	3	64	0	**145**	**576**
7:00 PM	56	0	4	0	1	2	0	0	0	0	0	0	0	9	67	1	**140**	**564**
7:15 PM	54	0	1	0	0	3	0	0	0	0	0	0	0	3	68	0	**129**	**577**
7:30 PM	48	0	2	0	1	3	0	0	0	0	0	0	0	5	55	0	**114**	**528**
7:45 PM	39	0	0	0	0	2	0	0	0	0	0	0	0	2	54	1	**98**	**481**
8:00 PM	31	0	2	0	0	6	0	0	0	0	0	0	0	8	62	2	**111**	**452**
8:15 PM	53	0	0	0	0	4	0	0	0	0	0	0	0	6	48	0	**111**	**434**
8:30 PM	41	0	1	0	1	5	0	0	0	0	0	0	0	3	45	0	**96**	**416**
8:45 PM	37	0	1	0	1	6	0	0	0	0	0	0	0	7	48	0	**100**	**418**
9:00 PM	30	0	1	0	0	3	0	0	0	0	0	0	0	0	41	0	**75**	**382**
9:15 PM	42	0	1	0	0	3	0	0	0	0	0	0	0	3	32	0	**81**	**352**
9:30 PM	22	0	0	0	0	1	0	0	0	0	0	0	0	0	42	1	**66**	**322**
9:45 PM	31	0	0	0	0	1	0	0	0	0	0	0	0	1	36	0	**69**	**291**
10:00 PM	24	0	0	0	0	2	0	0	0	0	0	0	0	2	30	0	**58**	**274**
10:15 PM	31	0	0	0	0	1	0	0	0	0	0	0	0	2	25	0	**59**	**252**
10:30 PM	22	0	1	0	0	3	0	0	0	0	0	0	0	1	28	0	**55**	**241**
10:45 PM	26	0	1	0	0	4	0	0	0	0	0	0	0	4	18	0	**53**	**225**
11:00 PM	22	0	1	0	0	3	0	0	0	0	0	0	0	1	18	0	**45**	**212**
11:15 PM	23	0	0	0	0	1	0	0	0	0	0	0	0	0	26	1	**51**	**204**
11:30 PM	17	0	2	0	0	2	0	0	0	0	0	0	0	1	20	0	**42**	**191**
11:45 PM	12	0	0	0	0	0	0	0	0	0	0	0	0	1	15	0	**28**	**166**

AM Peak	**364**	**0**	**4**	**0**	**4**	**34**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**23**	**96**	**0**
PM Peak	**246**	**0**	**10**	**0**	**4**	**14**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**16**	**286**	**1**

Appendix FF

Environmental Soil and Groundwater Quality Results

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Chapter 1 (SOIL ONLY)

TD/3043/EBS

TD/3044/EBS

TD/3045/EBS

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Appendix

Executive Summary

STATS Asia Pacific Pte Ltd was engaged by **Ryobi Geotechnique International Pte Ltd** in June 2022 to perform an environmental site assessment (ESA) for a property located at Sungei Kadut. This report was jointly produced by STATS Asia Pacific Pte Ltd as the accredited laboratory and Singapore Environmental Consultancy and Solutions Pte Ltd as the Environmental Consultant and responsible for the environmental drilling. This report details the ESA investigation undertaken at the property and conforms to the reporting structure outlined in the recent SLA "Guideline on Environmental Site Assessment (2018) Edition". The analytical suite follows the 2013 Dutch Soil Standards as detailed in the 2018 SLA ESA Guidelines.

The purpose of this investigation was to establish the level of contamination, if any in the soil by testing the concentrations of selected chemicals of concern in samples collected from the site, establishing the baseline conditions beneath the property and also assesses any contamination of soil that may have resulted from historical land use including site development. The objective of the ESA is to conform to the SLA requirements and to undertake an ESA study as part of the lease transfer agreement.

The program for this investigation consisted of the following tasks.

- Site reconnaissance to determine the borehole locations and interview.
- Drilling of 3 boreholes to termination depths of 6.00m below ground level (bgl)
- Submission of 10 soil samples to the laboratory for analysis inclusive of one soil duplicate in accordance to the analytical suite detailed target and intervention values detailed under the 2013 Dutch Standards.

An initial site inspection and cable detection were conducted prior to the commencement of the drilling works. The drilling works was carried out on 14th till 16th September 2022.

A summary of the findings from this investigation is as follows.

- The site is currently vacant and Ryobi Geotechnique International Pte Ltd have been engaged to perform soil investigation works.

- According to Historical Map of Singapore (Department of Geography, NUS), Sungei Kadut used to be filled with squatter settlements as well as several clusters of cemeteries. In the 1980s, Sungei Kadut was developed for industrial use (zoned as Business 2, which is intended for clean, light and general industries as well as warehouses, public utilities and telecommunications uses and other public installations. Special industries such as manufacture of industrial machinery, shipbuilding and repairing may be allowed in selected areas subject to evaluation by the relevant and competent authorities). According to the Urban Redevelopment Authority (URA), this land is currently used being used as drain, minor road, or back lane.

- Based on the bore log of the 5 borehole, soil composition in the various depths is summarised in the table below:

Borehole	**Depths (m)**	**Depths**
TD/3043/EBS	0 – 1.0	Firm to stiff, sandy CLAY, dry, brick red colour, low plasticity, no hydrocarbon smearing or odour.
	1.0 – 3.0	Firm, brown to light yellowish, silty CLAY, slightly wet, light brown, medium plasticity, fine and medium sized stones, no hydrocarbon smearing or odour
	3.0 – 4.0	Firm, silty CLAY, wet, light brown, medium plasticity, fine grained sand, no hydrocarbon smearing or odour.
	4.0 – 5.0	Stiff, CLAY, wet, light yellow to grey, medium plasticity, fine grained sand, no hydrocarbon smearing or odour.
	5.0 – 6.0	Stiff, CLAY, wet, yellow to light grey, high plasticity, no hydrocarbon smearing or odour
TD/3044/EBS	0 – 2.5	Soft, sandy CLAY, dry, yellowish brown, medium plasticity, coarse grained sand no hydrocarbon smearing or odour.
	2.5 – 3.5	Soft, sandy CLAY, slightly wet, yellowish grey, medium plasticity, no hydrocarbon smearing or odour
	3.5 – 4.5	Hard to stiff, CLAY, dry, light brown, medium plasticity, no hydrocarbon smearing or odour.
	4.5 – 6.0	Soft, CLAY, wet, yellowish brown, high plasticity, no hydrocarbon smearing or odour.
TD/3045/EBS	0 – 1.0	Firm, clayey SAND, dry, reddish brown to yellowish brown, low plasticity, fine and medium sized debris, no hydrocarbon smearing or odour.
	1.0 – 2.5	Firm, clayey SAND, slightly wet, reddish brown to brown, low plasticity, fine and medium sized debris, no hydrocarbon smearing or odour
	2.5 – 4.0	Stiff, sandy CLAY, slightly wet, brick red colour, low plasticity, fine grained sand, no hydrocarbon smearing or odour.
	4.0 – 6.0	Stiff, sandy CLAY, slightly wet, yellowish brown to reddish brown, low plasticity, fine grained sand, no hydrocarbon smearing or odour.

- The static water table was measured at depths of 1.5 m below ground level and the well yields were low. This is an indication of low permeability saturated zone soils.

- The sampling and analysis program consisted of submission of 10 soil samples inclusive of one soil duplicate to the laboratory for analysis in accordance to the 2018 SLA ESA requirements.

- A review of the laboratory analysis results for the soil samples tested showed that none of the samples tested exceeded their respective Dutch Intervention Values.

Based on the analytical data, physical site features, geologic settings and land use scenario there is no need to undertake any form of remediation as the analytical results, for the soil has indicated no critical issues of concern to the site occupants or neighbouring facilities based on the current land use scenario.

1.0 Introduction

STATS Asia Pacific Pte Ltd was engaged by **Ryobi Geotechnique International Pte Ltd** in June 2022 to perform an environmental site assessment (ESA) for a property located at Sungei Kadut. This report was jointly produced by STATS Asia Pacific Pte Ltd as the accredited laboratory and Singapore Environmental Consultancy and Solutions Pte Ltd as the Environmental Consultant and responsible for the environmental drilling. This report details the ESA investigation undertaken at the property and conforms to the reporting structure outlined in the recent SLA "Guideline on Environmental Site Assessment (2018) Edition". The analytical suite follows the 2013 Dutch Soil Guidelines as detailed in the 2018 SLA ESA Guidelines.

1.1 Purpose and Objective

The purpose of this investigation was to establish the level of contamination, if any in the soil by testing the concentrations of selected chemicals of concern in samples collected from the site, establishing the baseline conditions beneath the property and also assesses any contamination of the soil and groundwater that may have resulted from historical land use including site development. The objective of the ESA is to conform to the SLA requirements to undertake the ESA study as part of the lease agreement.

The schedule of standards used to evaluate the analytical results for this study are the Dutch Soil Target and Intervention Values for 2013 (Dutch Standards) which are the standards adopted by the SLA as specified in the 2018 ESA Guidelines as a means of determining the contamination status of the soil samples tested.

1.2 Scope of Work

The program for this investigation consisted of the following tasks.

- Site reconnaissance to determine the borehole locations and interview.
- Drilling of 3 boreholes to termination depths of 6.00m below ground level (bgl)
- Submission of 10 soil samples to the laboratory for analysis inclusive of one soil duplicate in accordance to the analytical suite detailed target and intervention values detailed under the 2013 Dutch Standards.

An initial site inspection and cable detection were conducted prior to the commencement of the drilling works. The drilling works was carried out on 14th till 16th September 2022.

1.3 Assessment Criteria and Report Structure

In Singapore no legislation exists addressing soil quality criteria. The SLA have adopted the 2013 Dutch Standards that were derived using a comprehensive risk based toxicological model. These criteria, when compared to the concentrations of compounds measured in the soil and groundwater samples collected during the field program, can give a preliminary contamination status of the site. The Dutch Values specify two levels, which are defined in the Netherlands as follows:

- an S or Target value that represents the target or background concentration and below which would indicate that the land is multifunctional;
- an I, or Intervention, level above which indicates some levels of serious contamination exists and that of some form of remediation would be required which could range from natural attenuation and further monitoring to a risk assessment and/or active remediation that may include soil/groundwater removal or treatment.

The analytical results of this investigation have been compared to the Intervention Values as a means of determining the potential contamination status for the soil samples tested.

This report documents the findings of the non-intrusive investigation and describes the methodology used for the field program and laboratory testing. The analytical results for the soil are assessed as a means of determining the contamination status of the site. Based on the findings and conclusions, recommendations for future action are detailed. Site location plans with sample locations indicated are included under the figures attached to the report. The appendix section includes the boring logs, certified laboratory reports and photographs.

2.0 Site Settings

2.1 Site Location and Layout

The facility is located at Sungei Kadut in the western part of mainland Singapore (Figure 1). 3 boreholes were drilled at the site as part of a soil investigation project.

Figure 1 - Location Map

2.2 Site Activities

It is our understanding that the site has been developed there since 1980s. Land Transport Authority occupied the site since then for the development of roads and drains till now.

2.3 Surrounding Land Use

The property is located within the Sungei Kadut planning area at North West Region of Singapore.

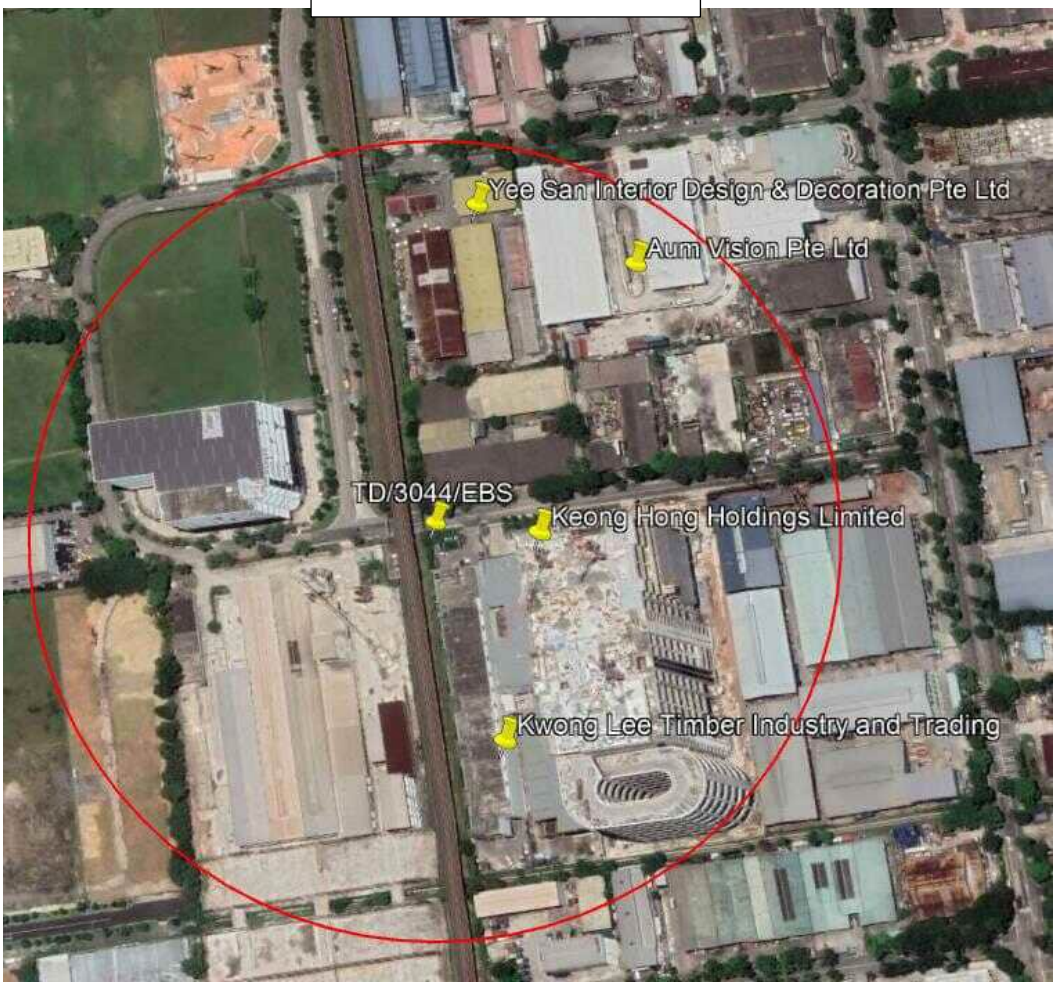
Current land uses 250 m from the facility are described as follows:

Figure 4 - TD/3043/EBS

- Chong Sun Wood Products Pte Ltd is a company that does wholesale of logs, sawn timber, plywood and related products.
- Hui Koon Enterprise Pte Ltd main business activity is repairing of ships, tanker and other ocean-going vessels.
- Hock Hoe Timber Pte Ltd is a company that does wholesale of logs, sawn timber, plywood and related products.
- Zola Design Pte Ltd provide interior design services and wholesale of furniture.
- Tak Products & Services Pte Ltd is a company that manufactures of laminboard and particle board.

There is sensitive no residential receptor nearby and the remaining surrounding area is mostly zoned for infrastructural use. The nearest waterbody is the Pang Sua Canal located approximately 0.45 Km north.

Figure 5 - TD/3044/EBS



- Yee San (Shan Yi) Interior Design & Decorations Pte Ltd main business activity is building construction and manufacture of furniture and fixtures of wood.
- Aum Vision Pte Ltd specialised in painting and decorating services.
- Keong Hong Holdings Limited main business activating is holding companies and investments.
- Kwong Lee Timber Industry and Trading Pte Ltd is a company that manufacture furnitures and woonden fixtures.

There is sensitive residential receptor nearby and the remaining surrounding area is mostly zoned for infrastructural use. The nearest waterbody is the Pang Sua Canal located approximately 0.73 Km north.

Figure 6 - TD/3045/EBS

- Leowood Industries (S) Pte Ltd is a company that does wholesale of logs, sawn timber, plywood and related products with joinery.
- Kim How Timber Trading Pte Ltd manufactures wooden window, door and other millwork.
- Sen Wan Timber (S) Pte Ltd manufactures building materials primarily wooden products.
- Hock Huat Sawmill Co Pte Ltd main business activity is sawmilling.
- Redwood Interior main business activity is building construction and manufacturing of furniture and fixtures.

There is sensitive residential receptor nearby and the remaining surrounding area is mostly zoned for infrastructural use. The nearest waterbody is the Pang Sua Canal located approximately 0.70 Km west

2.4 Physical Settings

2.4.1 Physiograph/Surface Drainage

TD/3043/EBS

The terrain of the subject site is characterised as a generally flat relief. Surface drainage is controlled by perimeter drains around the boundaries of the site which flow to the storm drains along Sungai Kadut Street 1.

TD/3044/EBS

The terrain of the subject site is characterised as a generally flat relief. Surface drainage is controlled by perimeter drains around the boundaries of the site which flow to the storm drains along Sungai Kadut Street 2.

TD/3045/EBS

The terrain of the subject site is characterised as a generally flat relief. Surface drainage is controlled by perimeter drains around the boundaries of the site which flow to the storm drains along Sungai Kadut Street 2.

2.4.2 *Soil Stratigraphy/Geology*

TD/3043/EBS, TD/3044/EBS & TD/3045/EBS

A review of the Geological Map of Singapore, Sheet 1, Lim Chu Kang (Defence Science and Technology Agency, 2009) indicates that the site is underlain with Bukit Timah Granite. The granite varies from granite through adamellite to granodiorite, and several hybrid rocks are included within the formation. Both hornblede-rich granite (BTh) and biotite-rich granite (BTb) occur. Zones of norite-granite mixed rocks are also seen (BThy).

Based on the bore logs of the borehole, soil composition in the various depths is summarised in the table below:

Borehole	**Depths (m)**	**Depths**
TD/3043/EBS	0 – 1.0	Firm to stiff, sandy CLAY, dry, brick red colour, low plasticity, no hydrocarbon smearing or odour.
	1.0 – 3.0	Firm, brown to light yellowish, silty CLAY, slightly wet, light brown, medium plasticity, fine and medium sized stones, no hydrocarbon smearing or odour
	3.0 – 4.0	Firm, silty CLAY, wet, light brown, medium plasticity, fine grained sand, no hydrocarbon smearing or odour.
	4.0 – 5.0	Stiff, CLAY, wet, light yellow to grey, medium plasticity, fine grained sand, no hydrocarbon smearing or odour.
	5.0 – 6.0	Stiff, CLAY, wet, yellow to light grey, high plasticity, no hydrocarbon smearing or odour
TD/3044/EBS	0 – 2.5	Soft, sandy CLAY, dry, yellowish brown, medium plasticity, coarse grained sand no hydrocarbon smearing or odour.
	2.5 – 3.5	Soft, sandy CLAY, slightly wet, yellowish grey, medium plasticity, no hydrocarbon smearing or odour
	3.5 – 4.5	Hard to stiff, CLAY, dry, light brown, medium plasticity, no hydrocarbon smearing or odour.
	4.5 – 6.0	Soft, CLAY, wet, yellowish brown, high plasticity, no hydrocarbon smearing or odour.
TD/3045/EBS	0 – 1.0	Firm, clayey SAND, dry, reddish brown to yellowish brown, low plasticity, fine and medium sized debris, no hydrocarbon smearing or odour.
	1.0 – 2.5	Firm, clayey SAND, slightly wet, reddish brown to brown, low plasticity, fine and medium sized debris, no hydrocarbon smearing or odour
	2.5 – 4.0	Stiff, sandy CLAY, slightly wet, brick red colour, low plasticity, fine grained sand, no hydrocarbon smearing or odour.
	4.0 – 6.0	Stiff, sandy CLAY, slightly wet, yellowish brown to reddish brown, low plasticity, fine grained sand, no hydrocarbon smearing or odour.

The static water table was measured at depths of 1.50 m below ground level and the well yields were low. This is an indication of low permeability saturated zone soils.

2.5 Site History

According to Historical Map of Singapore (Department of Geography, NUS), Sungei Kadut used to be filled with squatter settlements as well as several clusters of cemeteries. In the 1980s, Sungei Kadut was developed for industrial use (zoned as Business 2, which is intended for clean, light and general industries as well as warehouses, public utilities and telecommunications uses and other public installations. Special industries such as manufacture of industrial machinery, shipbuilding and repairing may be allowed in selected areas subject to evaluation by the relevant and competent authorities). According to the Urban Redevelopment Authority (URA), this land is currently being used as drain, minor road, or back lane.

3.0 Site Inspection

3.1 General

A site inspection and cable detection were carried out on prior to the field program for the installation of the monitoring wells to assess for any visual contamination in terms of stressed vegetation, stained ground or waste material of which there were no indications.

3.2 Surface Conditions and Drainage

The site was covered grass patch. Surface drainage is controlled by perimeter drains around the site which flow to the storm drains running along, Sungei Kadut Street 1 & Sungei Kadut Street 2.

3.3 Hazardous Substances and Waste Management

At time of investigation, no hazardous material in the form of solid waste, drums, or containers were found to be stored on the site.

3.4 Physical Evidence of Contamination

No odours or stressed vegetation were noted during the site inspection and field program. There are no storage pits, ponds or lagoons on the site.

3.5 Potential Areas of Concern and Contaminants of Concern

As the site was allocated for industrial usage and the environmental baseline study being executed under SLA's requirement, a comprehensive range of contaminants are being tested for as detailed by the latest Dutch Standards.

Based on the site inspection, neighbouring properties and site history, there are no potential hazards which could contaminate the soil.

The discussion of the sampling and analysis program is detailed in section 4.0 (Field Program and Analytical Parameters) of this report.

4.0 Field Program and Analytical Parameters

4.1 General

A field program of soil sampling was proposed to obtain soil samples from the site. The drilling works was carried out on 16th September till 26th October 2022. The drilling contractor under instructions of an Environmental Engineer from SECS carried out the soil sampling. The program consisted of the installation of 1 borehole with the submission of three soil samples from the borehole for analytical testing. Soil samples were analysed for the parameters detailed in the latest Dutch Environmental Guidelines Soil Remediation Circular (Dutch Standards).

4.2 Preliminary Investigation Findings

The objectives of conducting a preliminary investigation (PI) are:

1. To develop a preliminary CSM for the site;
2. To identify potential sources of contamination and recognised environmental conditions (RECs) in connection with the historical and current site activities;
3. To identify the potential on-site and off-site human and environmental receptors;
4. To identify potential migration pathways, transport mechanisms and exposure pathways of the soil contamination;
5. To identify the potential impacts of contamination to on-site and off-site receptors;
6. To gather information useful for developing the sampling program for the ESA; and
7. To identify the probability of potential off-site sources of contamination that could affect the environmental condition of the site.

A preliminary investigation conducted found that:

- According to Historical Map of Singapore (Department of Geography, NUS), Sungei Kadut used to be filled with squatter settlements as well as several clusters of cemeteries. In the 1980s, Sungei Kadut was developed for industrial use (zoned as Business 2, which is intended for clean, light and general industries as well as warehouses, public utilities and telecommunications uses and other public installations. Special industries such as manufacture of industrial machinery, shipbuilding and repairing may be allowed in selected areas subject to evaluation by the relevant and competent authorities). According to the Urban Redevelopment Authority (URA), this land is currently being used as drain, minor road, or back lane.

- Potential contaminants of concern arising from the site could affect construction workers engaged in any demolition/ addition and alteration works as well as future site occupants.

The conceptual site model is described using a brief narrative detailing the relevant physical characteristics of the site as they would relate to land use and exposure of any potential contaminants in the soil to potential receptors that would include site occupants, neighbouring properties and or physical receptors such as the site boundary. This preliminary conceptual site model is based on limited background information and would be refined as more drilling information is obtained.

The following assumptions were made for developing the conceptual site model:

- According to the 2014 URA Masterplan, the proposed future land use at the site will remain as an industrial zone, and is likely to leased out to the next site occupant by SLA.
- Redevelopment/ excavation works may result in deeper contaminated soil (if any) to be exposed.
- The soil properties are based on visual manual classification made on site. Estimates of soil permeability were made based on soil type.

Table 1. Preliminary Conceptual Site Model

Source	Exposure Media	Exposure Route	Potential Receptor
Contaminants in soil exceeding DIV	Soil	Dermal Contact, Incidental Ingestion, Inhalation	Construction worker engaged in excavation

4.3 Number and Location of Boreholes

The borehole was drilled to termination depth of 6.00 m bgl. The borings were located to represent a geographic spread across the site. The location was as follows:

- TD/3043/EBS: North portion of the site
- TD/3044/EBS: North portion of the site
- TD/3045/EBS: North-West portion of the site

The well locations are shown in Figure 2 below, with photos attached in Appendix A.

Figure 7 Site Layout Plan with Borehole Locations

4.4 Soil Sampling

The borehole trial pit and drilling are by using a full set of hand auger equipment and the Geoprobe respectively. After the drilling, PVC casings was immediately inserted into the boreholes to stabilise it as the boreholes will easily collapse below the water table without the support of the PVC casings. The Geoprobe drilling mechanism is by hydraulic push where a metal casing and liner in being push down to extract the soil sample at different interval depth. The drilling, sampling and logging of the soil borings are carried out in accordance with the following protocols

- BS EN 1997-2:2007 EN7 Part 2 (Code of Practice for Site Investigations & Testing)
- ASTM D5730 Site Characterization for Environmental Purposes with Emphasis on Soil, Rock, the Vadose Zone and Groundwater,
- ASTM D4700 Standard Guide for Soil Sampling from the Vadose Zone
- USEPA Environmental Response Team SOP 2012 (Soil Sampling)

The soil samples are collected at 0.5 m bgl, and then at each subsequent 1.5 m interval until the termination depth is reached.

The hand auger will be used for the trial pit and the soil collection at 0.5m bgl. After the trial pit is completed, the Geoprobe will push the metal casing which is containing a plastic liner (1.5 m) to collected soil sample. Liner will be retrieved for each subsequent 1.5 m interval until termination depth is reached. Soil sample collected from the liner will be selected and fitted into a clean soil jar with a tight-fitting screw top lid and store in clean cooler boxes with frozen blue bricks.

All drilling implements such as steel casings/rods, and bits were decontaminated prior to their insertion into the boreholes by rinsing with potable water followed by a soap water wash with brushes and a final potable water rinse.

The sampling and Geoprobe equipment were cleaned before use and between samples. This includes the metal casing/rod, auger barrel, thin wall tube samplers, spatulas, trowels, scoops and any other equipment used. All cleaning is performed on a clean surface, such as a plastic sheet. The field engineer/scientist wears clean rubber gloves when handling soil samples and cleaned equipment.

The cleaning procedures for all sampling equipment involved:

- Washing in tap water removing gross contamination
- Washing in DECON 90 solution (phosphate-free laboratory detergent)
- Rinsing copiously with tap water
- Rinsing with de-ionised water

Soil samples from each boring were logged with respect to soil classification and observations of any obvious contamination properties such as odour or staining were

noted. The soil profiles are displayed as a Log of Boring and presented in Appendix B.

Table 1 summarizes the descriptions of the soil samples selected for laboratory analysis.

Table 1 Summary of Soil Sample Description

BH No.	Sample No.	Depth m bgl	Description
TD/3043/EBS	S1	0.5 – 0.7	Firm, sandy CLAY, slightly wet, light brown, low plasticity, fine and medium sized stones, no hydrocarbon smearing or odour.
TD/3043/EBS	S3	3.0 – 3.2	Loose SAND, wet, light brown, high plasticity, fine grained sand, no hydrocarbon smearing or odour.
TD/3043/EBS	S4	4.5 – 4.7	Loose SAND, wet, light brown, high plasticity, fine grained sand, no hydrocarbon smearing or odour.
TD/3044/EBS	S1	0.5 – 0.7	Firm, sandy CLAY, slightly wet, light brown, low plasticity, fine and medium sized stones, no hydrocarbon smearing or odour.
TD/3044/EBS	S3	3.0 – 3.2	Loose SAND, wet, light brown, high plasticity, fine grained sand, no hydrocarbon smearing or odour.
TD/3044/EBS	S4	4.5 – 4.7	Loose SAND, wet, light brown, high plasticity, fine grained sand, no hydrocarbon smearing or odour.
TD/3045/EBS	S1	0.5 – 0.7	Firm, sandy CLAY, slightly wet, light brown, low plasticity, fine and medium sized stones, no hydrocarbon smearing or odour.
TD/3045/EBS	S3	3.0 – 3.2	Loose SAND, wet, light brown, high plasticity, fine grained sand, no hydrocarbon smearing or odour.
TD/3045/EBS	S4	4.5 – 4.7	Loose SAND, wet, light brown, high plasticity, fine grained sand, no hydrocarbon smearing or odour.

4.5 Laboratory Testing Program

Chain of Custody
All soil samples were collected under chain of custody protocols.
Each sample jar was labelled with the following information:

- Job number
- Project name
- Date of sampling
- Sample Number
- Depth of sample

Chain-of custody documentation was completed on site. This included the information listed above and if appropriate, the chemical analysis required for each sample. The field engineer/scientist signed the appropriate section of the chain-of-custody form before handing over the samples to the laboratory.

Analytical Testing

The analytical testing suite undertaken for the soil samples collected for this investigation was in accordance to the SLA Guideline on Environmental Baseline Study. A summary of the parameters tested is as follows:

- Heavy Metals and Metalloids (12 elements) by USEPA 3051(soil digestion) and APHA-AWWA analytical methods for ICP/AAS.
- Aromatic Compounds (Volatile Organic Compounds (VOC)) by USEPA method 8260.
- Aromatic Compounds (Semi-Volatile Organic Compounds (SVOC)) by USEPA method 8270.
- Polycyclic Aromatic Hydrocarbons (PAH) by UESPA method 8270.
- Chlorinated Hydrocarbons (Volatile Organic Compounds (VOC)) by USEPA method 8260.
- Chlorinated Hydrocarbons (Semi-Volatile Organic Compounds (SVOC)) by USEPA method 8270.
- Pesticides by USEPA method 8270.
- Pesticides (mane) by BCTD/Env/IHM011/2000 (rev (0)).
- Other Pollutants (Volatile Organic Compounds) by USEPA method 8260.
- Other Pollutants (Phthalates and Pyridine) by USEPA method 8270.
- Total Petroleum Hydrocarbons (TPH) by USEPA method 8015 GC.
- Organic Matter – soils only by BS 1377 Pt 2.
- Moisture Content – soils only by BS1377 Pt 3.

A total of 10 soil samples inclusive of one soil duplicate were submitted to the laboratory for the parameters detailed above.

5.0 Results from the Soil Sampling Program

The Dutch Soil target and intervention values are defined under *Section 1.3* of this report and form the basis for determining the site's contamination status. Comparison of the analytical results to the Dutch Intervention Values gives the preliminary indication of the contamination status of the site.

5.1 Soil Quality Assessment

Analyses of contaminants of concern were carried out for 16 primary soil samples submitted from 5 borehole inclusive of one field duplicate sample. The results are summarized in Table 4, while the lab reports are presented in Appendix D.

A review of the laboratory analysis results for the soil samples tested showed that none of the samples tested exceeded their respective Dutch Intervention Values.

Table 5 – Soil Quality Assessment

	Range of values (mg/kg)	DTV (mg/kg)	DIV (mg/kg)	Assessment
Metals and metalloids				
Arsenic (As)	<2.0 – 9.87	-	76	All results were below DIV
Antimony (Sb)	<2.0	-	22	
Barium (Ba)	<2.0 – 3.63	-	-	
Cadmium (Cd)	<2.0	-	13	
Chromium (Cr)	18.65 – 59.07	-	-	
Cobalt (Co)	<2.0	-	190	
Copper (Cu)	<2.0 – 86.52	-	190	
Mercury (Hg)	<2.0	-	-	
Lead (Pb)	<2.0 – 7.98	-	530	
Molybdenum (Mo)	<2.0	-	190	
Nickel (Ni)	<2.0	-	100	
Zinc (Zn)	<2.0 – 14.38	-	720	
Inorganic Compounds				
Total Cyanide	<0.5	1	20	All results were below DIV
Aromatic Compounds				
Benzene	<0.1	0.01	1.1	All results were below DIV
Ethylbenzene	<0.1	0.03	110	
Toluene	<0.1	0.01	32	
Xylene	<0.2	0.1	17	
Styrene	<0.1	0.3	86	
SVOCs	< LOR	various	various	
Polynuclear Aromatic Hydrocarbons				

SVOCs	< LOR	-	40	All results were below DIV
Chlorinated Hydrocarbons				
VOCs	< LOR	various	various	All results were below DIV
SVOCs	< LOR	various	various	
Pesticides				
SVOCs	< LOR	various	various	All results were below DIV
Organotins	< LOR	-	2.5	
MCPA	< 1	-	4	
Other Pollutants				
Asbestos	< LOR	-	100	All results were below DIV
VOCs	< LOR	various	various	
Di(2-ethylhexyl) phthalate	<0.2	-	60	
Total Phthalates	<0.2	-	-	
Pyridine	<0.2	-	11	
TPH (total)	<10	50	5000	

Note. LOR = Limits of Reporting; DTV = Dutch Target Value; DIV = Dutch Intervention Value. LOR < DTV < DIV.

5.2 Sample QA/QC

The QA/QC procedures undertaken in the field program consisted of the submission of field duplicate samples to the laboratory to check the consistency of the results. The field duplicate samples were not made known to laboratory personnel. One duplicate soil sample from TD/3044/EBS, S1 designated as QC were taken on 14th September 2022.

To assess the precision or the agreements among a set duplicate analysis a calculation of the relative percent difference (RPD) was applied to the sample and its replicate. The RPD values are determined as follows:

RPD = {(Result 1 - Result 2) / Average} x 100.

The results for the duplicate analysis are attached in the Appendix E.

The RPD results are below 30%, which is the accepted level of precision for field duplicate samples. The surrogate spikes, matrix spikes and matrix spike duplicates for the VOC and SVOC are presented in Appendix D. The surrogate and spike recoveries were generally within acceptable limits and the RPD values for the duplicate spikes were generally within the 30% criteria.

6.0 Conclusions

A summary of the findings from this investigation is as follows.

- The site is currently vacant and Ryobi Geotechnique International Pte Ltd have been engaged to perform soil investigation works.

- According to Historical Map of Singapore (Department of Geography, NUS), Sungei Kadut used to be filled with squatter settlements as well as several clusters of cemeteries. In the 1980s, Sungei Kadut was developed for industrial use (zoned as Business 2, which is intended for clean, light and general industries as well as warehouses, public utilities and telecommunications uses and other public installations. Special industries such as manufacture of industrial machinery, shipbuilding and repairing may be allowed in selected areas subject to evaluation by the relevant and competent authorities). According to the Urban Redevelopment Authority (URA), this land is currently used being used as drain, minor road, or back lane.

- Based on the bore log of the 5 borehole, soil composition in the various depths is summarised in the table below:

Borehole	**Depths (m)**	**Depths**
TD/3043/EBS	0 – 1.0	Firm to stiff, sandy CLAY, dry, brick red colour, low plasticity, no hydrocarbon smearing or odour.
	1.0 – 3.0	Firm, brown to light yellowish, silty CLAY, slightly wet, light brown, medium plasticity, fine and medium sized stones, no hydrocarbon smearing or odour
	3.0 – 4.0	Firm, silty CLAY, wet, light brown, medium plasticity, fine grained sand, no hydrocarbon smearing or odour.
	4.0 – 5.0	Stiff, CLAY, wet, light yellow to grey, medium plasticity, fine grained sand, no hydrocarbon smearing or odour.
	5.0 – 6.0	Stiff, CLAY, wet, yellow to light grey, high plasticity, no hydrocarbon smearing or odour
TD/3044/EBS	0 – 2.5	Soft, sandy CLAY, dry, yellowish brown, medium plasticity, coarse grained sand no hydrocarbon smearing or odour.
	2.5 – 3.5	Soft, sandy CLAY, slightly wet, yellowish grey, medium plasticity, no hydrocarbon smearing or odour
	3.5 – 4.5	Hard to stiff, CLAY, dry, light brown, medium plasticity, no hydrocarbon smearing or odour.

	4.5 – 6.0	Soft, CLAY, wet, yellowish brown, high plasticity, no hydrocarbon smearing or odour.
TD/3045/EBS	0 – 1.0	Firm, clayey SAND, dry, reddish brown to yellowish brown, low plasticity, fine and medium sized debris, no hydrocarbon smearing or odour.
	1.0 – 2.5	Firm, clayey SAND, slightly wet, reddish brown to brown, low plasticity, fine and medium sized debris, no hydrocarbon smearing or odour
	2.5 – 4.0	Stiff, sandy CLAY, slightly wet, brick red colour, low plasticity, fine grained sand, no hydrocarbon smearing or odour.
	4.0 – 6.0	Stiff, sandy CLAY, slightly wet, yellowish brown to reddish brown, low plasticity, fine grained sand, no hydrocarbon smearing or odour.

- The static water table was measured at depths of 1.5 m below ground level and the well yields were low. This is an indication of low permeability saturated zone soils.

- The sampling and analysis program consisted of submission of 10 soil samples inclusive of one soil duplicates to the laboratory for analysis in accordance to the 2018 SLA ESA requirements.

- A review of the laboratory analysis results for the soil samples tested showed that none of the samples tested exceeded their respective Dutch Intervention Values.

7.0 Recommendations

Based on the analytical data, physical site features, geologic settings and land use scenario there would be no need to undertake any form of remediation as the analytical results for the soil and groundwater indicate no critical issues of concern to the site occupants or neighbouring facilities based on the present land use scenario.

Chapter 2 (EBS)

TD/2100/EBS

TD/2101/EBS

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Appendix

Executive Summary

STATS Asia Pacific Pte Ltd was engaged by **Ryobi Geotechnique International Pte Ltd** in June 2022 to perform an Environmental Site Assessment (ESA)for a property located at Sungei Kadut. This report was jointly produced by STATS Asia Pacific Pte Ltd as the accredited laboratory and Singapore Environmental Consultancy and Solutions Pte Ltd as the Environmental Consultant and responsible for the environmental drilling. This report details the ESA investigation undertaken at the property and conforms to the reporting structure outlined in the recent SLA "Guideline on Environmental Site Assessment (2018) Edition". The analytical suite follows the 2013 Dutch Soil Standards as detailed in the 2018 SLA ESA Guidelines.

The purpose of this investigation was to establish the level of contamination, if any in the soil by testing the concentrations of selected chemicals of concern in samples collected from the site, establishing the baseline conditions beneath the property and also assesses any contamination of soil that may have resulted from historical land use including site development. The objective of the ESA is to conform to the SLA requirements and to undertake an ESA study as part of the lease transfer agreement.

The program for this investigation consisted of the following tasks.

- Site reconnaissance to determine the borehole locations and interview.
- Drilling of 2 borehole to termination depths of 6.00m below ground level (bgl)
- Completion of the boreholes as groundwater monitoring wells.
- Submission of 6 soil samples and 2 sets of groundwater samples to the laboratory for analysis inclusive of one soil duplicate and one groundwater in accordance to the analytical suite detailed target and intervention values detailed under the 2013 Dutch Standards.

An initial site inspection and cable detection were conducted prior to the commencement of the drilling works. The drilling works was carried out on 23th September 2022 (TD/2100/EBS) and 26th October 2022 (TD/2101/EBS) while groundwater samples were collected on 24th September 2022 and 7th November 2022.

A summary of the findings from this investigation is as follows.

- The site is currently vacant and Ryobi Geotechnique International Pte Ltd have been engaged to perform soil investigation works.

- According to Historical Map of Singapore (Department of Geography, NUS), Sungei Kadut used to be filled with squatter settlements as well as several clusters of cemeteries. In the 1980s, Sungei Kadut was developed for industrial use (zoned as Business 2, which is intended for clean, light and general industries as well as warehouses, public utilities and telecommunications uses and other public installations. Special industries such as manufacture of industrial machinery, shipbuilding and repairing may be allowed in selected areas subject to evaluation

by the relevant and competent authorities). According to the Urban Redevelopment Authority (URA), this land is currently used being used as drain, minor road, or back lane.

- Based on the bore log of the 1 borehole, soil composition in the various depths is summarised in the table below:

Borehole	**Depths (m)**	**Depths**
TD/2100/EBS	0 – 0.5	Firm, silty SAND, wet, yellowish brown, medium plasticity, no hydrocarbon smearing or odour.
	0.5 – 1.0	Firm, silty SAND, dry, reddish brown, medium plasticity, no hydrocarbon smearing or odour
	1.0 – 3.5	Soft, silty SAND, wet, yellowish grey, medium plasticity, no hydrocarbon smearing or odour.
	3.5 – 6.0	Soft, sandy CLAY, wet, white greyish, high plasticity, no hydrocarbon smearing or odour.
TD/2101/EBS	0 – 0.5	Firm, sandy CLAY, dry, brown to yellowish, low plasticity, coarse-grained debris and stones, no hydrocarbon smearing or odour.
	0.5 – 1.0	Firm, sandy CLAY, slightly dry, reddish brown, low plasticity, coarse grained debris and stones, no hydrocarbon smearing or odour
	1.0 – 3.5	Soft, silty CLAY, wet, reddish brown to yellowish, high plasticity, no hydrocarbon smearing or odour.
	3.5 – 6.0	Soft, silty CLAY, wet, brick red, high plasticity, no hydrocarbon smearing or odour.

- The static water table was measured at depths of 2.0 m below ground level and the well yields were low. This is an indication of low permeability saturated zone soils. Based on the reduced level measurements groundwater is flowing in the northeast direction.

- The sampling and analysis program consisted of submission of 6 soil samples and one (2) set of groundwater sample to the laboratory for analysis in accordance to the 2018 SLA ESA requirements.

- A review of the laboratory analysis results for the soil samples tested showed that none of the samples tested exceeded their respective Dutch Intervention Values.

- A review of the laboratory analysis results for the groundwater samples tested showed that none of the samples tested exceeded their respective Dutch Intervention Values.

Based on the analytical data, physical site features, geologic settings and land use scenario there is no need to undertake any form of remediation as the analytical results,

for the soil has indicated no critical issues of concern to the site occupants or neighbouring facilities based on the current land use scenario.

2.0 Introduction

STATS Asia Pacific Pte Ltd was engaged by **Ryobi Geotechnique International Pte Ltd** in June 2022 to perform an environmental site assessment (ESA)for a property located at Sungei Kadut. This report was jointly produced by STATS Asia Pacific Pte Ltd as the accredited laboratory and Singapore Environmental Consultancy and Solutions Pte Ltd as the Environmental Consultant and responsible for the environmental drilling. This report details the ESA investigation undertaken at the property and conforms to the reporting structure outlined in the recent SLA "Guideline on Environmental Site Assessment (2018) Edition". The analytical suite follows the 2013 Dutch Soil Guidelines as detailed in the 2018 SLA ESA Guidelines.

2.1 Purpose and Objective

The purpose of this investigation was to establish the level of contamination, if any in the soil by testing the concentrations of selected chemicals of concern in samples collected from the site, establishing the baseline conditions beneath the property and also assesses any contamination of the soil and groundwater that may have resulted from historical land use including site development. The objective of the ESA is to conform to the SLA requirements to undertake the ESA study as part of the lease agreement.

The schedule of standards used to evaluate the analytical results for this study are the Dutch Soil Target and Intervention Values for 2013 (Dutch Standards) which are the standards adopted by the SLA as specified in the 2018 ESA Guidelines as a means of determining the contamination status of the soil samples tested.

1.2 Scope of Work

The program for this investigation consisted of the following tasks.

- Site reconnaissance to determine the borehole locations and interview.
- Drilling of 2 borehole to termination depths of 6.00m below ground level (bgl)
- Completion of the boreholes as groundwater monitoring wells.
- Submission of 6 soil samples and 2 sets of groundwater samples to the laboratory for analysis inclusive of one soil duplicate and one groundwater in accordance to the analytical suite detailed target and intervention values detailed under the 2013 Dutch Standards.

An initial site inspection and cable detection were conducted prior to the commencement of the drilling works. on 23th September 2022 (TD/2100/EBS) and 26th October 2022 (TD/2101/EBS) while groundwater samples were collected on 24th September 2022 and 7th November 2022.

1.3 Assessment Criteria and Report Structure

In Singapore no legislation exists addressing soil quality criteria. The SLA have adopted the 2013 Dutch Standards that were derived using a comprehensive risk based toxicological model. These criteria, when compared to the concentrations of compounds measured in the soil and groundwater samples collected during the field program, can give a preliminary contamination status of the site. The Dutch Values specify two levels, which are defined in the Netherlands as follows:

- an S or Target value that represents the target or background concentration and below which would indicate that the land is multifunctional;
- an I, or Intervention, level above which indicates some levels of serious contamination exists and that of some form of remediation would be required which could range from natural attenuation and further monitoring to a risk assessment and/or active remediation that may include soil/groundwater removal or treatment.

The analytical results of this investigation have been compared to the Intervention Values as a means of determining the potential contamination status for the soil samples tested.

This report documents the findings of the non-intrusive investigation and describes the methodology used for the field program and laboratory testing. The analytical results for the soil are assessed as a means of determining the contamination status of the site. Based on the findings and conclusions, recommendations for future action are detailed. Site location plans with sample locations indicated are included under the figures attached to the report. The appendix section includes the boring logs, certified laboratory reports and photographs.

2.0 Site Settings

2.1 Site Location and Layout

The facility is located at Sungei Kadut in the western part of mainland Singapore (Figure 1). 2 boreholes were drilled at the site as part of an internal investigation for the organization's study as part of the lease agreement.

Figure 1 - Location Map

2.3 Site Activities

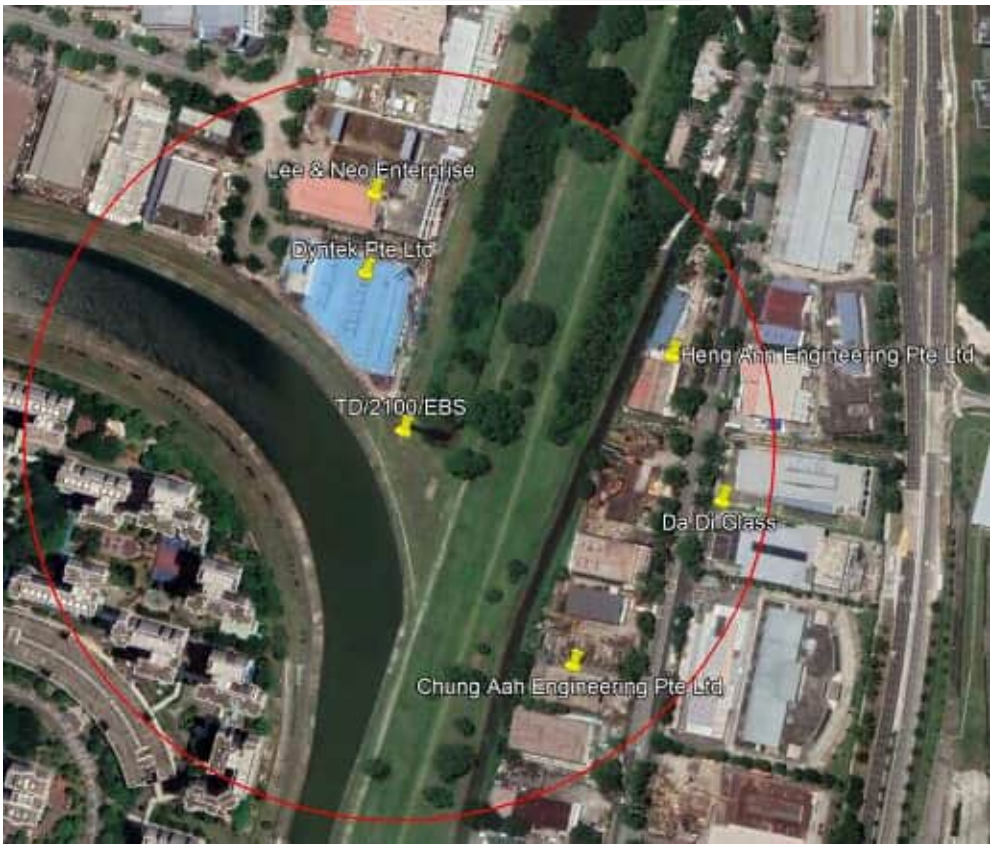
It is our understanding that the site has been developed there since 1980s. Land Transport Authority occupied the site since then for the development of roads and drains till now.

2.3 Surrounding Land Use

The property is located within the Sungei Kadut planning area at North West Region of Singapore.

Current land uses 250 m from the facility are described as follows:

Figure 2 - TD/2100/EBS



- Lee & Neo Enterprise manufacture of metal doors, window and door frames, grilles and gratings with recycling of metal waste and scrap as the secondary activity.
- Dyntek Pte Ltd a building materials store.
- Heng Ann Engineering Pte Ltd specialised is installation of industrial machinery and equipment, mechanical engineering works and building construction.
- Da Di Glass (Singapore) Pte Ltd is manufacturer of glass and glass products.
- Chung Ah Engineering main business activity is wholesale of marine equipment and accessories.

There is a sensitive residential receptor nearby and the remaining surrounding area is mostly zoned for infrastructural use. The nearest waterbody is the Pang Sua Canal located approximately 0.020 Km South.

Figure 3 - TD/2101/EBS

- King Koil Singapore is a company that does manufacturing and retail sale of mattresses
- Castilla Singapore does wholesale of furniture.
- Unique Stone Works Pte Ltd is a company that specialised in cutting, shaping and finishing of stones products.
- Lee & Neo Enterprise is manufacturer of metal door, windows and door frames, grilles and gratings.

There is a sensitive residential receptor nearby and the remaining surrounding area is mostly zoned for infrastructural use. The nearest waterbody is the Kranji Reservoir located approximately 0.29 Km Southwest

2.4 Physical Settings

2.4.1 Physiograph/Surface Drainage

The terrain of the subject site is characterised as a generally flat relief. Surface drainage is controlled by perimeter drains around the boundaries of the site which flow to the storm drains along Sungei Kadut Street 2.

2.4.3 *Soil Stratigraphy/Geology*

A review of the Geological Map of Singapore, Sheet 1, Lim Chu Kang (Defence Science and Technology Agency, 2009) indicates that the site is underlain with Alluvial Member, usually describes as a variable terrestrial sediment ranging from pebble beds through sand, muddy sand, and clay to peat. The member is usually unconsolidated but lightly consolidated beds may be found.

Based on the bore logs of the borehole, soil composition in the various depths is summarised in the table below:

Borehole	**Depths (m)**	**Depths**
TD/2100/EBS	0 – 0.5	Firm, silty SAND, wet, yellowish brown, medium plasticity, no hydrocarbon smearing or odour.
	0.5 – 1.0	Firm, silty SAND, dry, reddish brown, medium plasticity, no hydrocarbon smearing or odour
	1.0 – 3.5	Soft, silty SAND, wet, yellowish grey, medium plasticity, no hydrocarbon smearing or odour.
	3.5 – 6.0	Soft, sandy CLAY, wet, white greyish, high plasticity, no hydrocarbon smearing or odour.
TD/2101/EBS	0 – 0.5	Firm, sandy CLAY, dry, brown to yellowish, low plasticity, coarse-grained debris and stones, no hydrocarbon smearing or odour.
	0.5 – 1.0	Firm, sandy CLAY, slightly dry, reddish brown, low plasticity, coarse grained debris and stones, no hydrocarbon smearing or odour
	1.0 – 3.5	Soft, silty CLAY, wet, reddish brown to yellowish, high plasticity, no hydrocarbon smearing or odour.
	3.5 – 6.0	Soft, silty CLAY, wet, brick red, high plasticity, no hydrocarbon smearing or odour.

The static water table was measured at depths of 2.0 m below ground level and the well yields were low. This is an indication of low permeability saturated zone soils.

2.5 Site History

According to Historical Map of Singapore (Department of Geography, NUS), Sungei Kadut used to be filled with squatter settlements as well as several clusters of cemeteries. In the 1980s, Sungei Kadut was developed for industrial use (zoned as Business 2, which is intended for clean, light and general industries as well as warehouses, public utilities and telecommunications uses and other public installations. Special industries such as manufacture of industrial machinery, shipbuilding and repairing may be allowed in selected areas subject to evaluation by the relevant and competent authorities). According to the Urban Redevelopment Authority (URA), this land is currently used being used as drain, minor road, or back lane.

3.0 Site Inspection

3.1 General

A site inspection and cable detection were carried out on prior to the field program for the installation of the monitoring wells to assess for any visual contamination in terms of stressed vegetation, stained ground or waste material of which there were no indications.

3.2 Surface Conditions and Drainage

The site was covered grass patch. Surface drainage is controlled by perimeter drains around the site which flow to the storm drains running along Pang Sua Canal and Woodlands Road.

3.3 Hazardous Substances and Waste Management

At time of investigation, no hazardous material in the form of solid waste, drums, or containers were found to be stored on the site.

3.4 Physical Evidence of Contamination

No odours or stressed vegetation were noted during the site inspection and field program. There are no storage pits, ponds or lagoons on the site.

3.5 Potential Areas of Concern and Contaminants of Concern

As the site was allocated for industrial usage and the Environmental Site Assessment being executed under SLA's requirement, a comprehensive range of contaminants are being tested for as detailed by the latest Dutch Standards.

Based on the site inspection, neighbouring properties and site history, there are no potential hazards which could contaminate the soil.

The discussion of the sampling and analysis program is detailed in section 4.0 (Field Program and Analytical Parameters) of this report.

4.0 Field Program and Analytical Parameters

4.1 General

A field program of soil sampling was proposed to obtain soil samples from the site. The drilling works was carried out on 24th September 2022 (TD/2100/EBS) and 26th October 2022 (TD/2101/EBS). The drilling contractor under instructions of an Environmental Engineer from SECS carried out the soil sampling. The program consisted of the installation of 1 borehole with the submission of three soil samples from the borehole for analytical testing. Soil samples were analysed for the parameters detailed in the latest Dutch Environmental Guidelines Soil Remediation Circular (Dutch Standards).

4.2 Preliminary Investigation Findings

The objectives of conducting a preliminary investigation (PI) are:

8. To develop a preliminary CSM for the site;
9. To identify potential sources of contamination and recognised environmental conditions (RECs) in connection with the historical and current site activities;
10. To identify the potential on-site and off-site human and environmental receptors;
11. To identify potential migration pathways, transport mechanisms and exposure pathways of the soil contamination;
12. To identify the potential impacts of contamination to on-site and off-site receptors;
13. To gather information useful for developing the sampling program for the ESA; and
14. To identify the probability of potential off-site sources of contamination that could affect the environmental condition of the site.

A preliminary investigation conducted found that:

- According to Historical Map of Singapore (Department of Geography, NUS), Sungei Kadut used to be filled with squatter settlements as well as several clusters of cemeteries. In the 1980s, Sungei Kadut was developed for industrial use (zoned as Business 2, which is intended for clean, light and general industries as well as warehouses, public utilities and telecommunications uses and other public installations. Special industries such as manufacture of industrial machinery, shipbuilding and repairing may be allowed in selected areas subject to evaluation by the relevant and competent authorities). According to the Urban Redevelopment Authority (URA), this land is currently used being used as drain, minor road, or back lane.

- Potential contaminants of concern arising from the site could affect construction workers engaged in any demolition/ addition and alteration works as well as future site occupants.

The conceptual site model is described using a brief narrative detailing the relevant physical characteristics of the site as they would relate to land use and exposure of any potential contaminants in the soil to potential receptors that would include site occupants, neighbouring properties and or physical receptors such as the site boundary. This preliminary conceptual site model is based on limited background information and would be refined as more drilling information is obtained.

The following assumptions were made for developing the conceptual site model:

- According to the 2014 URA Masterplan, the proposed future land use at the site will remain as an industrial zone, and is likely to leased out to the next site occupant by SLA.
- Redevelopment/ excavation works may result in deeper contaminated soil (if any) to be exposed.
- The soil properties are based on visual manual classification made on site. Estimates of soil permeability were made based on soil type.

Table 1. Preliminary Conceptual Site Model

Source	Exposure Media	Exposure Route	Potential Receptor
Contaminants in soil exceeding DIV	Soil	Dermal Contact, Incidental Ingestion, Inhalation	Construction worker engaged in excavation
Contaminants in groundwater exceeding DIV	Aquifer discharge to surface water/ sediments	Dermal Contact, Incidental Ingestion	Construction worker engaged in excavation
	Groundwater	Volatilization from groundwater into air	Future site occupants and construction workers

4.3 Number and Location of Boreholes

The borehole was drilled to termination depth of 6.00 m bgl. The borings were located to represent a geographic spread across the site. The location was as follows:

- TD/2100: Central portion of the site
- TD/2101: Central portion of the site

The well locations are shown in Figure 4 below, with photos attached in Appendix A.

Figure 4 Site Layout Plan with Borehole Locations

4.4 Soil Sampling

The borehole trial pit and drilling are by using a full set of hand auger equipment and the Geoprobe respectively. After the drilling, PVC casings was immediately inserted into the boreholes to stabilise it as the boreholes will easily collapse below the water table without the support of the PVC casings. The Geoprobe drilling mechanism is by hydraulic push where a metal casing and liner in being push down to extract the soil sample at different interval depth. The drilling, sampling and logging of the soil borings are carried out in accordance with the following protocols

- BS EN 1997-2:2007 EN7 Part 2 (Code of Practice for Site Investigations & Testing)
- ASTM D5730 Site Characterization for Environmental Purposes with Emphasis on Soil, Rock, the Vadose Zone and Groundwater,
- ASTM D4700 Standard Guide for Soil Sampling from the Vadose Zone
- USEPA Environmental Response Team SOP 2012 (Soil Sampling)

The soil samples are collected at 0.5 m bgl, and then at each subsequent 1.5 m interval until the termination depth is reached.

The hand auger will be used for the trial pit and the soil collection at 0.5m bgl. After the trial pit is completed, the Geoprobe will push the metal casing which is containing a plastic liner (1.5 m) to collected soil sample. Liner will be retrieved for each subsequent 1.5 m interval until termination depth is reached. Soil sample collected from the liner will be selected and fitted into a clean soil jar with a tight-fitting screw top lid and store in clean cooler boxes with frozen blue bricks.

All drilling implements such as steel casings/rods, and bits were decontaminated prior to their insertion into the boreholes by rinsing with potable water followed by a soap water wash with brushes and a final potable water rinse.

The sampling and Geoprobe equipment were cleaned before use and between samples. This includes the metal casing/rod, auger barrel, thin wall tube samplers, spatulas, trowels, scoops and any other equipment used. All cleaning are performed on a clean surface, such as a plastic sheet. The field engineer/scientist wears clean rubber gloves when handling soil samples and cleaned equipment.

The cleaning procedures for all sampling equipment involved:

- Washing in tap water removing gross contamination
- Washing in DECON 90 solutions (phosphate-free laboratory detergent)
- Rinsing copiously with tap water
- Rinsing with de-ionised water

Soil samples from each boring were logged with respect to soil classification and observations of any obvious contamination properties such as odour or staining were

noted. The soil profiles are displayed as a Log of Boring and presented in Appendix B.

Table 1 summarizes the descriptions of the soil samples selected for laboratory analysis.

Table 1 Summary of Soil Sample Description

BH No.	Sample No.	Depth m bgl	Description
TD/2100/EBS	S1	0.5 – 0.7	Firm, sandy CLAY, slightly wet, light brown, low plasticity, fine and medium sized stones, no hydrocarbon smearing or odour
TD/2100/EBS	S3	3.0 – 3.2	Loose SAND, wet, light brown, high plasticity, fine grained sand, no hydrocarbon smearing or odour.
TD/2100/EBS	S4	4.5 – 4.7	Loose SAND, wet, light brown, high plasticity, fine grained sand, no hydrocarbon smearing or odour.
TD/2101/EBS	S1	0.5 – 0.7	Firm, sandy CLAY, slightly dry, reddish brown, low plasticity, coarse grained debris and stones, no hydrocarbon smearing or odour
TD/2101/EBS	S3	3.0 – 3.2	Soft, silty CLAY, wet, reddish brown to yellowish, high plasticity, no hydrocarbon smearing or odour.
TD/2101/EBS	S4	4.5 – 4.7	Soft, silty CLAY, wet, brick red, high plasticity, no hydrocarbon smearing or odour.

4.5 Groundwater Sampling and Well Construction

Groundwater monitoring wells were installed in all the boreholes after the drilling termination depth is reached. A 40mm diameter UPVC riser pipe with slotted screen was installed in the borehole. The annular space around the slotted interval was backfilled with coarse silica sand to act as a filter medium. The top of the filter sand was backfilled to at least 0.5m above the top of the slotted interval and a minimum 0.5m thick bentonite seal was placed above the top of the filter pack. All boreholes well standpipes were left with 0.18 to 0.20 m stick up above the ground level.

Prior to sample collection the monitoring wells were purged three well volumes or until dry using an HDPE water well bailer and then allowed to recharge to ensure samples representative of the water in the saturated zone soils was collected. The samples for laboratory analysis were collected using dedicated bailers and transferred from the bailer, into clean sample containers containing the appropriate preservative and into 40ml vials for volatile organic compounds. A bottom-emptying device was used to empty the bailer to minimize the loss of volatile species. Groundwater samples will be stored in a cooler box when on site and during transport to the laboratory. Procedures followed during the groundwater sampling are in accordance to USEPA Environmental Response Team SOP 2007 for groundwater sampling.

4.6 Groundwater Hydrology

Depth to groundwater was determined by using a clean water level indicator after bore development and prior to sampling, allowing sufficient time for the static groundwater levels to be established. The static water table depths when referenced to the surveyed reduced ground levels allows the hydraulic gradient between the wells to be calculated and the general groundwater flow direction to be determined. Table 3 presents the reduced ground levels, static water table depths and reduced water table elevations.

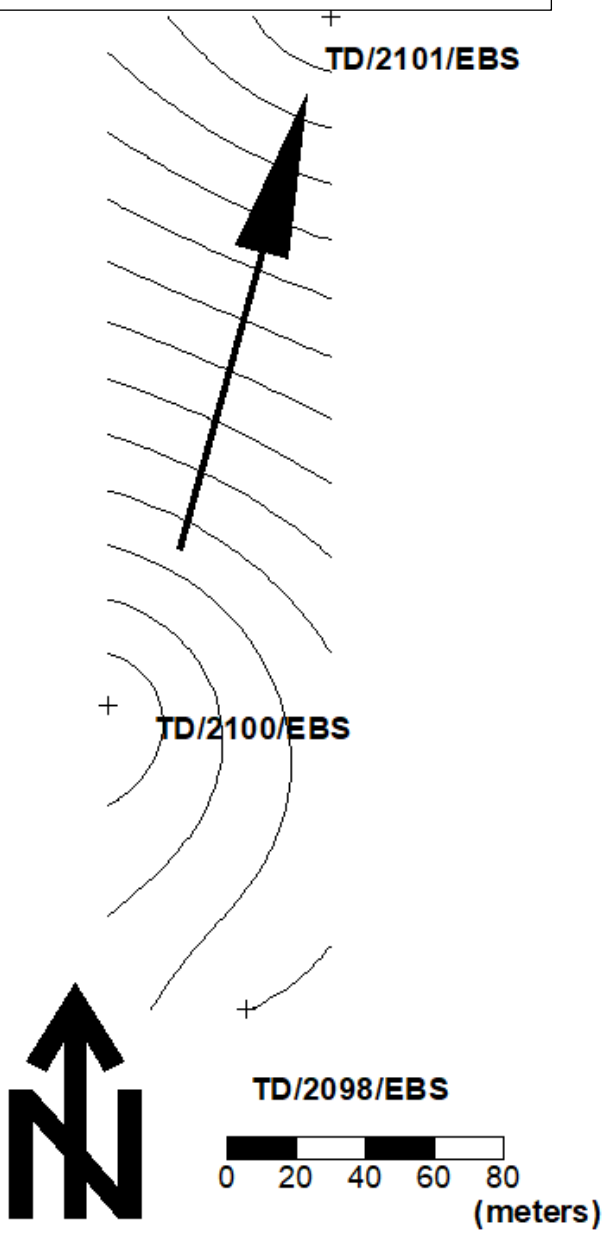
Table 3 Groundwater Elevation Data

Borehole Number	Assumed Level at Top of Standpipe (m)	Static Water Table		Water Table Reduced Level (m) RL
		Depth (m TOC)	Date Of Measurement	
TD/2100/EBS	104	2.0	24/9/2022	102
TD/2101/EBS	104	2.7	7/11/2022	101.3

RL – Reduced Level
TOC- top of UPVC casing (standpipe)

Thus, based on the Reduced Levels, the general groundwater flow direction is towards the north east. Figure 3 is a map of the water table contours and indicates the groundwater flow direction.

Figure 4 - Groundwater Contour Map



4.7 Laboratory Testing Program

Chain of Custody
All soil and groundwater samples were collected under chain of custody protocols. Each sample jar was labelled with the following information:

- Job number
- Project name
- Date of sampling
- Sample Number
- Depth of sample

Chain-of custody documentation was completed on site. This included the information listed above and if appropriate, the chemical analysis required for each sample. The field engineer/scientist signed the appropriate section of the chain-of-custody form before handing over the samples to the laboratory.

Analytical Testing
The analytical testing suite undertaken for the soil and groundwater samples collected for this investigation was in accordance to the JTC Guideline on Environmental Baseline Study. A summary of the parameters tested is as follows:

- Heavy Metals and Metalloids (12 elements) by USEPA 3051(soil digestion) and APHA-AWWA analytical methods for ICP/AAS.
- Aromatic Compounds (Volatile Organic Compounds (VOC)) by USEPA method 8260.
- Aromatic Compounds (Semi-Volatile Organic Compounds (SVOC)) by USEPA method 8270.
- Polycyclic Aromatic Hydrocarbons (PAH) by UESPA method 8270.
- Chlorinated Hydrocarbons (Volatile Organic Compounds (VOC)) by USEPA method 8260.
- Chlorinated Hydrocarbons (Semi-Volatile Organic Compounds (SVOC)) by USEPA method 8270.
- Pesticides by USEPA method 8270.
- Pesticides (maneb) by BCTD/Env/IHM011/2000 (rev (0)).
- Other Pollutants (Volatile Organic Compounds) by USEPA method 8260.
- Other Pollutants (Phthalates and Pyridine) by USEPA method 8270.
- Total Petroleum Hydrocarbons (TPH) by USEPA method 8015 GC.
- Organic Matter – soils only by BS 1377 Pt 2.
- Moisture Content – soils only by BS1377 Pt 3.
- Anions and Chemical Parameters – groundwater only (BOD, COD, TAN, TOC, F, Cl, Br, PO_4, SO_4) by APHA- AWWA standard methods.

A total of 6 soil samples and 2 water sample were submitted to the laboratory for the parameters detailed above.

5.0 Results from the Soil Sampling Program

The Dutch Soil and Groundwater target and intervention values are defined under *Section 1.3* of this report and form the basis for determining the site's contamination status. Comparison of the analytical results to the Dutch Intervention Values gives the preliminary indication of the contamination status of the site.

5.1 Field Measurements and Well Stabilization

Prior to sampling groundwater from the wells, the following parameters such as pH, temperature, electrical conductivity (EC), and dissolved oxygen (DO) was monitored to ensure well stabilization. Well stabilization and purging were conducted before the sampling on 24th September 2022 and 7th November 2022. It was found that stabilization of parameters (less than 10% difference) was achieved after three well volumes were purged although it should be noted that the wells could be purged dry and recovered within 1-2 hours.

The following table highlights parameters recorded from the Groundwater sampling field record. The complete record can be found in the Appendix C.

Table 4. Groundwater Sampling Field Record

Purged (L)	pH	Temp (ºC)	EC (µS/cm)	Eh (mV)	DO (mg/L)
Acceptance Criteria	*+/- 0.2%*	*+/- 3%*	*+/- 3%*	*+/- 10%*	*+/- 10%*
TD/2100/EBS: One well volume = 6.203 L					
6	4.57	25.34	117.18	261.1	6.23
6	4.55	25.19	117.02	261.3	6.27
6	4.55	25.41	116.97	261.4	6.29
TD/2101/EBS: One well volume = 6.203 L					
6	7.23	26.91	130.87	106.2	5.75
6	7.25	26.90	131.86	105.5	5.76
6	7.29	26.83	130.90	105.8	5.77

5.2 Soil Quality Assessment

Analyses of contaminants of concern were carried out for 6 primary soil samples submitted from 2 borehole. The results are summarized in Table 5, while the lab reports are presented in Appendix D.

A review of the laboratory analysis results for the soil samples tested showed that none of the samples tested exceeded their respective Dutch Intervention Values.

Table 5 – Soil Quality Assessment

	Range of values (mg/kg)	DTV (mg/kg)	DIV (mg/kg)	Assessment
Metals and metalloids				
Arsenic (As)	<2.0 – 29.6	-	76	All results were below DIV
Antimony (Sb)	<2.0	-	22	
Barium (Ba)	<2.0 – 10.23	-	-	
Cadmium (Cd)	<2.0	-	13	
Chromium (Cr)	<2.0 – 20.33	-	-	
Cobalt (Co)	<2.0	-	190	
Copper (Cu)	<2.0 – 11.06	-	190	
Mercury (Hg)	<2.0	-	-	
Lead (Pb)	<2.0 – 12.77	-	530	
Molybdenum (Mo)	<2.0 – 14.08	-	190	
Nickel (Ni)	<2.0	-	100	
Zinc (Zn)	<2.0 – 39.85	-	720	
Inorganic Compounds				
Total Cyanide	<0.5	1	20	All results were below DIV
Aromatic Compounds				
Benzene	<0.1	0.01	1.1	All results were below DIV
Ethylbenzene	<0.1	0.03	110	
Toluene	<0.1	0.01	32	
Xylene	<0.2	0.1	17	
Styrene	<0.1	0.3	86	
SVOCs	< LOR	various	various	
Polynuclear Aromatic Hydrocarbons				
SVOCs	< LOR	-	40	All results were below DIV
Chlorinated Hydrocarbons				
VOCs	< LOR	various	various	All results were below DIV
SVOCs	< LOR	various	various	
Pesticides				
SVOCs	< LOR	various	various	All results were below DIV
Organotins	< LOR	-	2.5	
MCPA	< 1	-	4	
Other Pollutants				
Asbestos	< LOR	-	100	All results were below DIV
VOCs	< LOR	various	various	
Di(2-ethylhexyl) phthalate	<0.2	-	60	
Total Phthalates	<0.2	-	-	
Pyridine	<0.2	-	11	
TPH (total)	<10	50	5000	

Note. LOR = Limits of Reporting; DTV = Dutch Target Value; DIV = Dutch Intervention Value. LOR < DTV < DIV.

5.3 Groundwater Quality Assessment

Analyses of contaminants of concern were carried out for the samples collected from each of the three monitoring wells.

A review of the laboratory analysis results for the groundwater samples tested showed that none of the samples tested exceeded their respective Dutch Intervention Values.

The results can be summarized in Table 6:

Table 6 – Groundwater Quality Assessment

	Range of values (µg/L)	DTV (µg/L)	DIV (µg/L)	Assessment
Metals and metalloids				
Arsenic (As)	<2.0 – 13.8	10	60	All results were below DIV.
Antimony (Sb)	<2.0	-	20	
Barium (Ba)	4.0 – 33.2	50	625	
Cadmium (Cd)	<0.25	0.4	6	
Chromium (Cr)	4.0 – 21.7	1	30	
Cobalt (Co)	<2.0	20	100	
Copper (Cu)	<2.0 – 5.9	15	75	
Mercury (Hg)	<0.1	0.05	0.3	
Lead (Pb)	<2.0	15	75	
Molybdenum (Mo)	<2.0	5	300	
Nickel (Ni)	2.6 – 10.4	15	75	
Zinc (Zn)	19.7 – 28.6	65	800	
Anion and Chemical Analysis				
BOD (mg/L)	2.0 – 9.0	-	-	Values indicates no real groundwater degradation.
COD (mgO2/L)	<50	-	-	
TOC (mg/L)	2.3 – 24.3	-	-	
Fluoride (mg/L)	<1.0	-	-	
Chloride (mg/L)	3.0 – 58.5	-	-	
Bromide (mg/L)	<1.0 – 1.3	-	-	
Phosphate (mg/L)	<1.0	-	-	
Sulphate (mg/L)	159.7 – 289.3	-	-	
TAN (mg/L)	2.56 – 3.07	-	-	
Inorganic Compounds				
Total Cyanide	<20	5	1,500	All results were below DIV
Aromatic Compounds				
Benzene	<20	0.2	30	All results were below DIV.
Ethylbenzene	<20	4	150	
Toluene	<20	7	1,000	
Xylene	<40	0.2	70	
Styrene	<20	0.6	300	
Phenol	<1.0	0.2	2,000	
SVOCs	< LOR	various	Various	

Polynuclear Aromatic Hydrocarbons				
SVOCs	1.02	various	various	All results were below DIV.
Chlorinated Hydrocarbons				
VOCs	< LOR	various	various	All results were below DIV.
SVOCs	< LOR	various	Various	
Pesticides				
SVOCs	< LOR	various	various	All results were below DIV
Organotins	< 0.4	0.05	0.7	
MCPA	< 1	0.02	50	
Other Pollutants				
VOCs	< LOR	various	various	All results were below DIV
Total Phthalates	<2.0	0.5	5	
Pyridine	<2.0	0.5	30	
TPH (total)	<170	50	600	

Note. LOR = Limits of Reporting; DTV = Dutch Target Value; DIV = Dutch Intervention Value. LOR < DTV < DIV.

6.0 Conclusions

A summary of the findings from this investigation is as follows.

- The site is currently vacant and Ryobi Geotechnique International Pte Ltd have been engaged to perform soil investigation works.

- According to Historical Map of Singapore (Department of Geography, NUS), Sungei Kadut used to be filled with squatter settlements as well as several clusters of cemeteries. In the 1980s, Sungei Kadut was developed for industrial use (zoned as Business 2, which is intended for clean, light and general industries as well as warehouses, public utilities and telecommunications uses and other public installations. Special industries such as manufacture of industrial machinery, shipbuilding and repairing may be allowed in selected areas subject to evaluation by the relevant and competent authorities). According to the Urban Redevelopment Authority (URA), this land is currently used being used as drain, minor road, or back lane.

- Based on the bore log of the 1 borehole, soil composition in the various depths is summarised in the table below:

Borehole	**Depths (m)**	**Depths**
TD/2100/EBS	0 – 0.5	Firm, silty SAND, wet, yellowish brown, medium plasticity, no hydrocarbon smearing or odour.
	0.5 – 1.0	Firm, silty SAND, dry, reddish brown, medium plasticity, no hydrocarbon smearing or odour
	1.0 – 3.5	Soft, silty SAND, wet, yellowish grey, medium plasticity, no hydrocarbon smearing or odour.
	3.5 – 6.0	Soft, sandy CLAY, wet, white greyish, high plasticity, no hydrocarbon smearing or odour.
TD/2101/EBS	0 – 0.5	Firm, sandy CLAY, dry, brown to yellowish, low plasticity, coarse-grained debris and stones, no hydrocarbon smearing or odour.
	0.5 – 1.0	Firm, sandy CLAY, slightly dry, reddish brown, low plasticity, coarse grained debris and stones, no hydrocarbon smearing or odour
	1.0 – 3.5	Soft, silty CLAY, wet, reddish brown to yellowish, high plasticity, no hydrocarbon smearing or odour.
	3.5 – 6.0	Soft, silty CLAY, wet, brick red, high plasticity, no hydrocarbon smearing or odour.

- The static water table was measured at depths of 2.0 m below ground level and the well yields were low. This is an indication of low permeability saturated zone soils. Based on the reduced level measurements groundwater is flowing in the northeast direction.

- The sampling and analysis program consisted of submission of 6 soil samples and two (2) set of groundwater sample to the laboratory for analysis in accordance to the 2018 SLA ESA requirements.

- A review of the laboratory analysis results for the soil samples tested showed that none of the samples tested exceeded their respective Dutch Intervention Values.

- A review of the laboratory analysis results for the groundwater samples tested showed that none of the samples tested exceeded their respective Dutch Intervention Values.

7.0 Recommendations

Based on the analytical data, physical site features, geologic settings and land use scenario there would be no need to undertake any form of remediation as the analytical results for the soil and groundwater indicate no critical issues of concern to the site occupants or neighbouring facilities based on the present land use scenario.

APPENDIX LIST

Sungei Kadut, DE167:TD26

Appendix A	**:**	**Photographs**
Appendix B	**:**	**Borelogs and Site Survey Data**
Appendix C	**:**	**Groundwater Field Sampling Record**
Appendix D	**:**	**Laboratory Test Report**
Appendix E	**:**	**Summary of RPD for Duplicate Samples**
Appendix F	**:**	**Work Plan**
Appendix G	**:**	**NEA List of Consultants for Site Assessment/Site Remediation**

Appendix A – Photographs

Photograph 1: TD/2100/EBS is located by the Pang Sua Canal.

Photograph 2: TD/2100/EBS is located by the Pang Sua Canal.

Photograph 3: TD/2101/EBS is located behind Teambuild Industrial Building.

Photograph 4: TD/3043/EBS is located at Sungei Kadut Street 1 by the North-South MRT line.

Photograph 5: TD/3044/EBS is located at Sungei Kadut Street 2 by the Keong Heong Holdings Limited building.

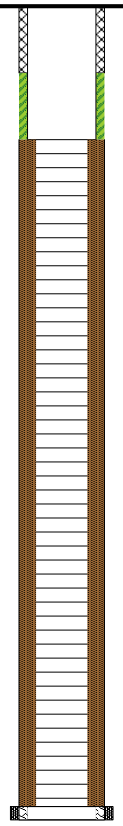
Photograph 6: TD/3045/EBS is located out the boundary of Golden Harvest Distribution Pte Ltd as the proposed borehole location is in close proximity of the existing building electrical room.

Appendix B – Borelogs and Site Survey Data

	PROJECT: **EBS**	BORING ID: **TD/2100/EBS**	
	LOCATION: **Sungei Kadut**	WELL ID: **TD/2100/EBS**	
	DRILLING CONTRACTOR: **Ryobi Geotechnique International Pte Ltd**	NORTHING: **42883.914**	EASTING: **19061.64**
	DRILLING EQUIPMENT: **Geoprobe**	GROUND SURFACE ELEV.: **104**	TOC ELEVATION:
	DRILLING METHOD: **Probing**	TOTAL DEPTH: **6**	DEPTH TO WATER: **2.5**
LOGGED BY: **Jey**	SAMPLING METHOD: **Liner**	DATE STARTED: **20/9/2022**	DATE COMPLETED: **20/9/2022**

Depth (m)	USCS	Graphic Log	Description	Sample No.	# Blows
0			Firm, silty SAND, moist, yellowish brown, medium plasticity, medium to coarse grain sand, saturated, no hydrocarbon smearing or odour.		
			Firm, silty SAND, moist, yellowish brown to yellowish grey, medium plasticity, medium to coarse grain sand, no hydrocarbon smearing or odour.	S1	
				S2	
2			Firm, silty SAND, moist, yellowish grey, medium plasticity, medium to coarse grain sand, saturated, no hydrocarbon smearing or odour.		
			Stiff, sandy CLAY, moist, whitish grey, high plasticity, medium to coarse grain sand, saturated, no hydrocarbon smearing or odour.	S3	
4				S4	
6				S5	
			Borehole terminated at 6m.		
8					
10					

Well Construction



40mm diameter PVC slotted pipe

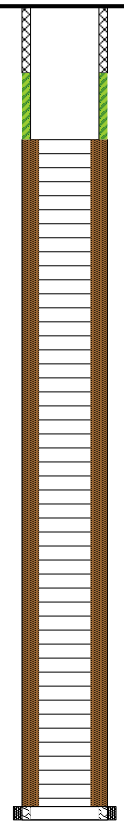
Well installed at 6.0m

Well Construction Legend

- Solid riser
- Grout
- Bentonite seal
- Screen
- Filter pack
- end cap
- Soil
- Cap
- Outside grout
- Outside bentonite seal
- Slough
- Outside casing

	PROJECT: **EBS**	BORING ID: **TD/2101/EBS**	
	LOCATION: **Sungei Kadut**	WELL ID: **TD/2101/EBS**	
	DRILLING CONTRACTOR: **Ryobi Geotechnique International Pte Ltd**	NORTHING: **43160.348**	EASTING: **19150.679**
	DRILLING EQUIPMENT: **Geoprobe**	GROUND SURFACE ELEV.: **104**	TOC ELEVATION:
	DRILLING METHOD: **Probing**	TOTAL DEPTH: **6**	DEPTH TO WATER: **2**
LOGGED BY: **Jey**	SAMPLING METHOD: **Liner**	DATE STARTED: **25/10/2022**	DATE COMPLETED: **25/10/2022**

Depth (m)	USCS	Graphic Log	Description	Sample No.	# Blows	Well Construction
0				S1		
				S2		
2						
				S3		40mm diameter PVC slotted pipe
4						
				S4		
				S5		
6						Well installed at 6.0m
8						
10						



Well Construction Legend

- Solid riser
- Grout
- Bentonite seal
- Screen
- Filter pack
- end cap
- Soil
- Cap
- Outside grout
- Outside bentonite seal
- Slough
- Outside casing

	PROJECT: **EBS**	BORING ID: **TD/3043/EBS**	
	LOCATION: **Sungei Kadut**	WELL ID:	
SECS	DRILLING CONTRACTOR: **Ryobi Geotechnique International Pte Ltd**	NORTHING: **43503.148**	EASTING: **18672.16**
	DRILLING EQUIPMENT: **Geoprobe**	GROUND SURFACE ELEV.: **104**	TOC ELEVATION:
	DRILLING METHOD: **Probing**	TOTAL DEPTH: **6**	DEPTH TO WATER: **2.5**
LOGGED BY: **Jey**	SAMPLING METHOD: **Liner**	DATE STARTED: **14/9/2022**	DATE COMPLETED: **14/9/2022**

Depth (m)	USCS	Graphic Log	Description	Sample No.	# Blows	Well Construction
0			Stiff, silty CLAY, dry, reddish brown, low plasticity, no hydrocarbon smearing or odour.	S1		
			Stiff, silty CLAY, dry, brown to light yellowish grey, medium plasticity, no hydrocarbon smearing or odour.	S2		
2						
			Stiff, silty CLAY, moist, greyish to white, medium plasticity, no hydrocarbon smearing or odour.	S3		
4			Stiff, silty CLAY, wet, brown to light yellowish grey, medium plasticity, no hydrocarbon smearing or odour.	S4		
			Stiff, silty CLAY, wet, yellow to light grey, high plasticity, no hydrocarbon smearing or odour.	S5		
6			Borehole terminated at 6m.			
8						
10						

Well Construction Legend

- Solid riser
- Grout
- Bentonite seal
- Screen
- Filter pack
- end cap
- Soil
- Cap
- Outside grout
- Outside bentonite seal
- Slough
- Outside casing

	PROJECT: **EBS**	BORING ID: **TD/3044/EBS**	
	LOCATION: **Sungei Kadut**	WELL ID:	
	DRILLING CONTRACTOR: **Ryobi Geotechnique International Pte Ltd**	NORTHING: **43790.644**	EASTING: **18627.656**
	DRILLING EQUIPMENT: **Geoprobe**	GROUND SURFACE ELEV.: **104**	TOC ELEVATION:
	DRILLING METHOD: **Probing**	TOTAL DEPTH: **6**	DEPTH TO WATER: **2.5**
LOGGED BY: **Jey**	SAMPLING METHOD: **Liner**	DATE STARTED: **14/9/2022**	DATE COMPLETED: **14/9/2022**

Depth (m)	USCS	Graphic Log	Description	Sample No.	# Blows	Well Construction
0			Soft, sandy CLAY, dry, yellowish brown, low plasticity, medium to coarse grain sand, no hydrocarbon smearing or odour.	S1		
				S2		
2			Soft, sandy CLAY, moist, grey and slightly yellow, medium plasticity, medium to coarse grain sand, no hydrocarbon smearing or odour.	S3		
			Hard to stiff, CLAY, almost dry, yellowish grey, low plasticity, no hydrocarbon smearing or odour.			
4			Soft, CLAY, wet, grey and slightly yellow, medium plasticity, medium to coarse grain sand, no hydrocarbon smearing or odour.	S4		
				S5		
6			Borehole terminated at 6m.			
8						
10						

Well Construction Legend

- Solid riser
- Grout
- Bentonite seal
- Screen
- Filter pack
- end cap
- Soil
- Cap
- Outside grout
- Outside bentonite seal
- Slough
- Outside casing

	PROJECT: **EBS**	BORING ID: **TD/3045/EBS**	
	LOCATION: **Sungei Kadut**	WELL ID:	
	DRILLING CONTRACTOR: **Ryobi Geotechnique International Pte Ltd**	NORTHING: **44056.026**	EASTING: **18583.152**
	DRILLING EQUIPMENT: **Geoprobe**	GROUND SURFACE ELEV.: **104**	TOC ELEVATION:
	DRILLING METHOD: **Probing**	TOTAL DEPTH: **6**	DEPTH TO WATER: **2.5**
LOGGED BY: **Jey**	SAMPLING METHOD: **Liner**	DATE STARTED: **16/9/2022**	DATE COMPLETED: **16/9/2022**

Depth (m)	USCS	Graphic Log	Description	Sample No.	# Blows	Well Construction
0			Firm, clayey SAND, dry, reddish brown to yellowish, low plasticity, medium to coarse grain sand, no hydrocarbon smearing or odour.	S1		
			Firm, clayey SAND, dry, reddish brown to brown, low plasticity, medium to coarse grain sand, no hydrocarbon smearing or odour.	S2		
2			Stiff, sandy CLAY, slightly wet, brick red, low plasticity, medium to coarse grain sand, no hydrocarbon smearing and odour.	S3		
4			Stiff, sandy CLAY, slightly wet, yellowish brown to reddish brown, low plasticity, medium to coarse grain sand, no hydrocarbon smearing and odour.	S4		
6			Borehole terminated at 6m.	S5		
8						
10						

Well Construction Legend

- Solid riser
- Grout
- Bentonite seal
- Screen
- Filter pack
- end cap
- Soil
- Cap
- Outside grout
- Outside bentonite seal
- Slough
- Outside casing

Appendix C – Groundwater Field Water Sampling

Groundwater Sampling Field Record

Job No: ENV-2210662-2

Site Location: Sungei Kadut TD-2100-EBS

Date: 7/11/2022

Time:

Well ID	TD/2100/EBS
Well Depth from Ground Level (m) **(A)**	5.60
Water Depth from Ground Level (Static Water Level) (m) **(B)**	2.00
Top of Cap to Ground Level (m) **(C)**	0.25
Water Depth from Top of Cap (m) **(B+C)**	2.25
Length of Water Column (m) **(A-B = D)**	3.80
Well Volume **(1.5904*D)**	6.044
Odour	-
Colour	Brown
Turbidity	Slight Turbid

Purged (L)	**pH**	**Temp (ºC)**	**Actual Conductivity (µs/cm)**	**ORP (mV)**	**DO (mg/L)**
Acceptance Criteria	+/- 0.2	+/- 3%	+/- 3%	+/- 10%	+/- 10%
6	4.57	25.34	117.18	261.1	6.23
6	4.55	25.19	117.02	261.3	6.27
6	4.55	25.41	116.97	261.4	6.29

Recorded by: Adrian

Groundwater Sampling Field Record

Job No: ENV-2210662-5B

Site Location: Sungei Kadut TD-2101-EBS

Date: 7/11/2022

Time:

Well ID	TD/2101/EBS
Well Depth from Ground Level (m) **(A)**	5.70
Water Depth from Ground Level (Static Water Level) (m) **(B)**	2.70
Top of Cap to Ground Level (m) **(C)**	0.18
Water Depth from Top of Cap (m) **(B+C)**	2.88
Length of Water Column (m) **(A-B = D)**	3.00
Well Volume **(1.5904*D)**	4.771
Odour	-
Colour	Brown
Turbidity	Slight Turbid

Purged (L)	**pH**	**Temp (ºC)**	**Actual Conductivity (µs/cm)**	**ORP (mV)**	**DO (mg/L)**
Acceptance Criteria	+/- 0.2	+/- 3%	+/- 3%	+/- 10%	+/- 10%
5	7.23	26.91	130.87	106.2	5.75
5	7.25	26.90	131.86	105.5	5.76
5	7.29	26.83	130.90	105.8	5.77

Recorded by: Adrian

Appendix D – Laboratory Test Report

STATS ASIA PACIFIC PTE LTD
Specialist Testing and Technical Services

Website: www.statsasiapac.com
Address: 71 Toh Guan Road East, #02-01/02/06, #03-02, #05-02/03
TCH Techcentre, Singapore 608598

Co Reg No. 201716604R I GST No. 201716604R
Tel: (65) 6252 6686 I Fax: (65) 6252 6166

TEST REPORT

(This report is issued subject to the terms & conditions set out below)

Your Ref : - **Our Ref : ENV-2210662-1** **Date : 20 October 2022**

Subject	:	Analysis of soil and water samples submitted by Ryobi Geotechnique International Pte Ltd on 18 September 2022 and testing commenced on 26 September 2022.
Tested for	:	**Ryobi Geotechnique International Pte Ltd** 70 Sungei Kadut Loop Singapore 729511
Sample Reference	:	10 soil samples + 4 water samples were received. [Location: Sungei Kadut]
Results :	:	**Refer Page 2 to 7**

Signed for and on behalf of STATS Asia Pacific Pte Ltd

LEI ZHI PEI
DIRECTOR

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STATS

TEST RESULTS FOR SOIL (in mg/kg unless otherwise specified):

Sample Bore Hole	TD 3043	TD 3043	TD 3043	TD 3044	TD 3044	TD 3044	TD 3045	TD 3045	TD 3045	QC	Method BLK	DUTCH	DUTCH	LOR
Sample No.	S1	S3	S4	S1	S3	S4	S1	S3	S4	-	-	(Target)	(Intervention)	-
Sample Depth m bgl	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	-	-	-	-	-
pH by BS 1377-3: 2018	7.8	7.0	7.7	8.0	7.0	7.4	8.1	4.6	4.7	7.8	-	-	-	-
Metals : by USEPA 3051A:2007 & APHA 3120B														
Arsenic (As)	4.70	N.D.	N.D.	4.68	N.D.	N.D.	9.87	3.92	5.41	4.53	N.D.	-	76	2.00
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	22	2.00
Barium (Ba)	N.D.	N.D.	N.D.	3.63	N.D.	N.D.	N.D.	N.D.	N.D.	3.48	N.D.	-	-	2.00
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	13	2.00
Chromium (Cr)	22.76	50.77	44.27	19.47	39.59	34.37	32.25	59.07	18.65	18.86	N.D.	-	-	2.00
Copper (Cu)	6.31	2.47	4.83	7.74	N.D.	4.54	86.52	20.31	37.59	7.59	N.D.	-	190	2.00
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	190	2.00
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	2.00
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	7.98	N.D.	N.D.	N.D.	-	530	2.00
Molybdenum (Mo)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	190	2.00
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	100	2.00
Zinc (Zn)	2.05	N.D.	N.D.	14.38	N.D.	N.D.	N.D.	N.D.	N.D.	13.80	N.D.	-	720	2.00
Organotin compounds (as Total Sn)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	2.5	1.00
Inorganic Compound : Cyanide (CN) by APHA 4500-CN (N)														
Cyanide (total)*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	20	0.50

Total Cyanide consists of Free Cyanide, Complex Cyanide and Total Thiocyanates. In this study, the Target and Intervention values of Free Cyanide, which are the most stringent Target and Intervention values of all three Cyanide species, are applied to the concentration of Total Cyanide (i.e. Free Cyanide + Complex Cyanide + Total Thiocyanates).

Aromatic Compounds : BTEX - Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018														
Benzene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	1.1	0.1
Ethylbenzene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	110	0.1
Toluene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	32	0.1
Xylene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	17	0.2
Styrene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	86	0.1
Aromatic Compounds : Semi-Volatile Organic Compounds (SVOC's) by USEPA 8270E:2018														
Phenol	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	14	0.1
Cresols	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	13	0.2
Catechol	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	1.0
Resorcinol	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.4
Hydrochinon	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.4

STATS

TEST RESULTS FOR SOIL (in mg/kg unless otherwise specified):

Sample Bore Hole	TD 3043	TD 3043	TD 3043	TD 3044	TD 3044	TD 3044	TD 3045	TD 3045	TD 3045	QC	Method BLK	DUTCH	DUTCH	LOR
Sample No.	S1	S3	S4	S1	S3	S4	S1	S3	S4	-	-	(Target)	(Intervention)	-
Sample Depth m bgl	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	-	-	-	-	-
pH by BS 1377-3: 2018	7.8	7.0	7.7	8.0	7.0	7.4	8.1	4.6	4.7	7.8	-	-	-	-
Polynuclear Aromatic Hydrocarbon (PAH) : Semi-Volatile Organic Compounds (SVOC's) by USEPA 8270E:2018														
Naphthalene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Anthracene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Phenanthrene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Fluoranthene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Benzo(a)anthracene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Chrysene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Benzo(a)pyrene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Benzo(ghi)perylene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.2
Benzo(k)fluoranthene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.2
Indeno(1,2,3cd)pyrene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.2
PAH (total of 10)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	40	0.2
Chlorinated Hydrocarbons : Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018														
Vinyl Chloride	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.1	0.1
Dichloromethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	3.9	0.1
1,1-Dichloroethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	15	0.1
1,2-Dichloroethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	6.4	0.1
1,1-Dichloroethene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.3	0.1
1,2-Dichloroethene (cis + trans)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	1	0.1
Dichloropropanes	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	2	0.1
Trichloromethane (Chloroform)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5.6	0.1
1,1,1-Trichloroethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	15	0.1
1,1,2-Trichloroethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	10	0.1
Trichloroethene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	2.5	0.1
Tetrachloromethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.7	0.1
Tetrachloroethene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	8.8	0.1
Chlorobenzenes (total of 6)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.2
Monochlorobenzene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	15	0.1
Dichlorobenzenes (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	19	0.1
Chlorinated Hydrocarbons : Semi-Volatile Organic Compounds (SVOC's) by USEPA 8270E:2018														
Trichlorobenzenes (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	11	0.1
Tetrachlorobenzenes (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	2.2	0.2
Pentachlorobenzenes	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	6.7	0.1
Hexachlorobenzenes	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	2	0.1
Chlorophenols (total of 5)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.3
Monochlorophenols (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5.4	0.2
Dichlorophenols (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	22	0.3
Trichlorophenols (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	22	0.1
Tetrachlorophenols (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	21	0.3
Pentachlorophenol	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	12	0.4
Chloronaphthalene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	23	0.2
Monochloroanilines	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	50	0.2
Polychlorobiphenyls (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	1	0.1

STATS

TEST RESULTS FOR SOIL (in mg/kg unless otherwise specified):

Sample Bore Hole	TD 3043	TD 3043	TD 3043	TD 3044	TD 3044	TD 3044	TD 3045	TD 3045	TD 3045	QC	Method BLK	DUTCH	DUTCH	LOR
Sample No.	S1	S3	S4	S1	S3	S4	S1	S3	S4	-	-	(Target)	(Intervention)	-
Sample Depth m bgl	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	-	-	-	-	-
pH by BS 1377-3: 2018	7.8	7.0	7.7	8.0	7.0	7.4	8.1	4.6	4.7	7.8	-	-	-	-

Pesticides : Semi-Volatile Organic Compounds (SVOC's) by USEPA 8270E:2018

sum DDT/DDD/DDE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.2
DDT	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	1.7	0.2
DDE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	2.3	0.1
DDD	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	34	0.1
sum aldrin, dieldrin, endrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	4	0.1
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.32	0.1
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Endrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
sum HCH	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
a-HCH	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	17	0.1
b-HCH	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	1.6	0.1
g-HCH	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	1.2	0.1
d-HCH	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Atrazine	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.71	0.1
Carbaryl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.45	0.4
Carbofuran	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.017	0.4
Chlordane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	4	0.1
Endosulfan	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	4	0.1
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	4	0.1
Heptachlor Epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	4	0.1

Other Pollutants : Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018

Cyclohexanone	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	150	0.6
Tetrahydrofuran	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	7	0.2
Tetrahydrothiophene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	8.8	0.2
Tribromomethane (Bromoform)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	75	0.1

Other Pollutants : Semi-Volatile Organic Compounds (SVOC's) by USEPA 8270E:2018

Dimethyl phthalate (DMP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	82	0.2
Diethyl phthalate (DEP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	53	0.2
Di-isobutylphthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	17	0.2
Dibutylphthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	36	0.2
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	48	0.2
Dihexylphthalate (DHP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	220	0.2
Di(2-ethylhexyl)phthalate (DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	60	0.2
Phthalates (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.2
Pyridine	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	11	0.2
MCPA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	4	1.0

STATS

TEST RESULTS FOR SOIL (in mg/kg unless otherwise specified):

Sample Bore Hole	TD 3043	TD 3043	TD 3043	TD 3044	TD 3044	TD 3044	TD 3045	TD 3045	TD 3045	QC	Method BLK	DUTCH	DUTCH	LOR
Sample No.	S1	S3	S4	S1	S3	S4	S1	S3	S4	-	-	(Target)	(Intervention)	-
Sample Depth m bgl	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	-	-	-	-	-
pH by BS 1377-3: 2018	7.8	7.0	7.7	8.0	7.0	7.4	8.1	4.6	4.7	7.8	-	-	-	-

Other Pollutants : Asbestos by ISO 22262-1:2012 & AS 4964:2004

Asbestos	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	100	100

Other Pollutants : Total Petroleum Hydrocarbons (TPH) with reference to US EPA Method 8015C:2007

C6 - C9	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	10.0
C10 - C14	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.			10.0
C15 - C28	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.			10.0
C29 - C36	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	10.0
C10-C36	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	30.0
C6 - C36 (Total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5,000**	40.0

(**Dutch Standard for mineral oil)

Miscellaneous : Moisture Content and Organic Matter (LOI) by BS 1377-2:1990 & BS 1377-3:2018

Moisture Content, %	24.32	45.03	45.95	26.36	42.17	47.75	43.38	37.29	34.22	30.03	-	-	-	0.01
Organic Matter (LOI), %	3.28	5.81	4.05	2.17	6.74	7.92	2.65	2.40	0.53	2.32	-	-	-	0.03

Surrogate Recovery by USEPA 8260D:2018

p-Bromofluorobenzene (%)	125	108	126	127	121	108	105	100	101	108	100
1,2-Dichloroethane-d4 (%)	89.0	74.0	113	89.0	98.0	78.0	73.0	82.0	88.0	81.0	97.0
Toluene-d8 (%)	112	117	120	94.0	122	107	98.0	103	97.0	111	94.0

Surrogate Recovery by USEPA 8270E:2018

Benzene-d5, nitro- (%)	133	133	134	132	114	85.5	91.6	94.3	98.5	133	89.9
1,1'-biphenyl,2-fluoro (%)	108	116	118	114	97.9	76.3	79.4	82.7	85.8	117	79.6
p-Terphenyl-d14 (%)	115	115	118	111	103	75.4	78.5	83.2	82.8	117	72.9
Phenol, 2-fluoro (%)	136	135	139	128	117	91.0	95.8	99.7	103	136	93.8
Phenol-d5 (%)	138	137	120	130	119	90.2	95.1	98.9	103	138	93.9
Phenol, 2,4,6-Tribromo (%)	113	117	114	109	101	73.2	74.3	81.8	80.8	118	78.1

Note:

1. APHA is a standard method for Determination of Water and Waste Water (APHA 23rd Edition, 2017).
2. LOR = Limit of Reporting. Detection Limit is based on the highest detection limit obtained from the individual compound.
3. "ND" = Not detected. The data reported is less than the LOR.
4. * Test was sub-contracted to external laboratory.

STATS

TEST RESULTS FOR WATER (in ug/L unless otherwise specified):

Sample ID / Monitoring Well	EB-1	EB-2	TB-1	TB-2	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR
Static Water Table Depth (m-TOC)	-	-	-	-	-	-	-	-
pH value (APHA 4500-H$^+$(B))	-	-	-	-	-	-	-	-
@ Temperature (deg. C)	-	-	-	-	-	-	-	-
Metals by APHA 3125B								
Arsenic (As)	N.D.	N.D.	-	-	N.D.	10	60	2.0
Antimony (Sb)	N.D.	N.D.	-	-	N.D.	-	20	2.0
Barium (Ba)	N.D.	N.D.	-	-	N.D.	50	625	2.0
Cadmium (Cd)	N.D.	N.D.	-	-	N.D.	0.4	6	0.25
Chromium (Cr)	N.D.	N.D.	-	-	N.D.	1	30	0.5
Cobalt (Co)	N.D.	N.D.	-	-	N.D.	20	100	2.0
Copper (Cu)	N.D.	N.D.	-	-	N.D.	15	75	2.0
Mercury (Hg)	N.D.	N.D.	-	-	N.D.	0.05	0.3	0.1
Lead (Pb)	N.D.	N.D.	-	-	N.D.	15	75	2.0
Molybdenum (Mo)	N.D.	N.D.	-	-	N.D.	5	300	2.0
Nickel (Ni)	N.D.	N.D.	-	-	N.D.	15	75	2.0
Zinc (Zn)	N.D.	N.D.	-	-	N.D.	65	800	2.0
Organotin compounds (as Total Sn)	N.D.	N.D.	-	-	N.D.	-	0.7	0.5
Aromatic Compounds : BTEX - Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018								
Benzene	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	30	20
Ethylbenzene	N.D.	N.D.	N.D.	N.D.	N.D.	4	150	20
Toluene	N.D.	N.D.	N.D.	N.D.	N.D.	7	1,000	20
Xylene	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	70	40
Styrene	N.D.	N.D.	N.D.	N.D.	N.D.	0.6	300	20
Polynuclear Aromatic Hydrocarbon (PAH) : Semi-Volatile Organic Compounds (SVOC's) by USEPA 3510C:1996 & USEPA 8270E:2018								
Naphthalene	N.D.	N.D.	-	-	N.D.	0.01	70	1.0
Anthracene	N.D.	N.D.	-	-	N.D.	0.007	5	1.0
Phenanthrene	N.D.	N.D.	-	-	N.D.	0.003	5	1.0
Fluoranthene	N.D.	N.D.	-	-	N.D.	0.003	1	1.0
Benzo(a)anthracene	N.D.	N.D.	-	-	N.D.	0.0001	0.5	1.0
Chrysene	N.D.	N.D.	-	-	N.D.	0.003	0.2	1.0
Benzo(a)pyrene	N.D.	N.D.	-	-	N.D.	0.001	0.05	2.0
Benzo(ghi)perylene	N.D.	N.D.	-	-	N.D.	0.0003	0.05	2.0
Benzo(k)fluoranthene	N.D.	N.D.	-	-	N.D.	0.0004	0.05	2.0
Indeno(1,2,3cd)pyrene	N.D.	N.D.	-	-	N.D.	0.0004	0.05	2.0
PAH (total of 10)	N.D.	N.D.	-	-	N.D.	-	-	2.0
Chlorinated Hydrocarbons : Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018								
Vinyl Chloride	N.D.	N.D.	-	-	N.D.	0.01	5	20
Dichloromethane	N.D.	N.D.	-	-	N.D.	0.01	1,000	20
1,1-Dichloroethane	N.D.	N.D.	-	-	N.D.	7	900	20
1,2-Dichloroethane	N.D.	N.D.	-	-	N.D.	7	400	20
1,1-Dichloroethene	N.D.	N.D.	-	-	N.D.	0.01	10	20
1,2-Dichloroethene (cis + trans)	N.D.	N.D.	-	-	N.D.	0.01	20	20
Dichloropropanes	N.D.	N.D.	-	-	N.D.	0.8	80	20
Trichloromethane (Chloroform)	N.D.	N.D.	-	-	N.D.	6	400	20
1,1,1-Trichloroethane	N.D.	N.D.	-	-	N.D.	0.01	300	20
1,1,2-Trichloroethane	N.D.	N.D.	-	-	N.D.	0.01	130	20
Trichloroethene	N.D.	N.D.	-	-	N.D.	24	500	20
Tetrachloromethane	N.D.	N.D.	-	-	N.D.	0.01	10	20
Tetrachloroethene	N.D.	N.D.	-	-	N.D.	0.01	40	20
Chlorobenzenes (total of 6)	N.D.	N.D.	-	-	N.D.	-	-	20
Monochlorobenzene	N.D.	N.D.	-	-	N.D.	7	180	20
Dichlorobenzenes (total)	N.D.	N.D.	-	-	N.D.	3	50	20

STATS

TEST RESULTS FOR WATER (in ug/L unless otherwise specified):

Sample ID / Monitoring Well	EB-1	EB-2	TB-1	TB-2	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR
Static Water Table Depth (m-TOC)	-	-	-	-	-	-	-	-
pH value (APHA 4500-H*(B))	-	-	-	-	-	-	-	-
@ Temperature (deg. C)	-	-	-	-	-	-	-	-
Chlorinated Hydrocarbons : Semi-Volatile Organic Compounds (SVOC's) by USEPA 3510C:1996 & USEPA 8270E:2018								
Trichlorobenzenes (total)	N.D.	N.D.	-	-	N.D.	0.01	10	1.0
Tetrachlorobenzenes (total)	N.D.	N.D.	-	-	N.D.	0.01	2.5	2.0
Pentachlorobenzenes	N.D.	N.D.	-	-	N.D.	0.003	1	1.0
Hexachlorobenzenes	N.D.	N.D.	-	-	N.D.	0.00009	0.5	1.0
Chlorophenols (total of 5)	-	-	-	-	N.D.	-	-	3.0
Monochlorophenols (total)	-	-	-	-	N.D.	0.30	100	2.0
Dichlorophenols (total)	-	-	-	-	N.D.	0.20	30	3.0
Trichlorophenols (total)	-	-	-	-	N.D.	0.03	10	1.0
Tetrachlorophenols (total)	-	-	-	-	N.D.	0.01	10	3.0
Pentachlorophenol	-	-	-	-	N.D.	0.04	3	4.0
Chloronaphthalene	-	-	-	-	N.D.	-	6	2.0
Monochloroanilines	-	-	-	-	N.D.	-	30	2.0
Polychlorobiphenyls (total)	-	-	-	-	N.D.	0.01 (d)	0.01	1.0
Other Pollutants : Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018								
Cyclohexanone	N.D.	N.D.	-	-	N.D.	0.5	15,000	120
Tetrahydrofuran	N.D.	N.D.	-	-	N.D.	0.5	300	40
Tetrahydrothiophene	N.D.	N.D.	-	-	N.D.	0.5	5000	40
Tribromomethane (Bromoform)	N.D.	N.D.	-	-	N.D.	-	630	20
Other Pollutants : Total Petroleum Hydrocarbons (TPH) with reference to US EPA Method 8015C:2007								
C6 - C9	N.D.	N.D.	-	-	N.D.	-	-	20
C10 - C14	N.D.	N.D.	-	-	N.D.	-	-	50
C15 - C28	N.D.	N.D.	-	-	N.D.	-	-	50
C29 - C36	N.D.	N.D.	-	-	N.D.	-	-	50
C10 - C36	N.D.	N.D.	-	-	N.D.	-	-	150
C6 - C36 (Total)	N.D.	N.D.	-	-	N.D.	50**	600**	170

(**Dutch Standard for mineral oil)

Surrogate Recovery by USEPA 8260D:2018

p-Bromofluorobenzene (%)	110	125	84.0	100	N.D.
1,2-Dichloroethane-d4 (%)	99.0	101	74.0	84.0	N.D.
Toluene-d8 (%)	104	110	113	106	N.D.

Surrogate Recovery by USEPA 8270E:2018

Benzene-d5, nitro- (%)	129	127	-	-	N.D.
1,1'-biphenyl,2-fluoro (%)	130	137	-	-	N.D.
p-Terphenyl-d14 (%)	115	111	-	-	N.D.
Phenol, 2-fluoro (%)	124	118	-	-	N.D.
Phenol-d5 (%)	127	121	-	-	N.D.
Phenol, 2,4,6-Tribromo (%)	140	130	-	-	N.D.

Note:

1. APHA is a standard method for Determination of Water and Waste Water (APHA 23rd Edition, 2017).
2. LOR = Limit of Reporting. Detection Limit is based on the highest detection limit obtained from the individual compound.
3. "ND" = Not detected. The data reported is less than the LOR.

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TEST REPORT

(This report is issued subject to the terms & conditions set out below)

Your Ref : - **Our Ref : ENV-2210662-2** **Date : 20 October 2022**

Subject	:	Analysis of soil and water samples submitted by Ryobi Geotechnique International Pte Ltd from 16-24 September 2022 and testing commenced on 26 September 2022.
Tested for	:	**Ryobi Geotechnique International Pte Ltd** 70 Sungei Kadut Loop Singapore 729511
Sample Reference	:	10 soil samples + 9 water samples were received. [Location: Sungei Kadut]
Results :	:	**Refer Page 2 to 11**

Signed for and on behalf of STATS Asia Pacific Pte Ltd

LEI ZHI PEI
DIRECTOR

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STATS

TEST RESULTS FOR SOIL (in mg/kg unless otherwise specified):

Sample Bore Hole	TD 2096	TD 2096	TD 2096	TD 2097	TD 2097	TD 2097	TD 2100	TD 2100	TD 2100	QC	Method BLK	DUTCH	DUTCH	LOR
Sample No.	S1	S3	S4	S1	S3	S4	S1	S3	S4	-	-	(Target)	(Intervention)	-
Sample Depth m bgl	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	-	-	-	-	-
pH by BS 1377-3: 2018	8.2	6.3	5.8	8.5	6.8	6.1	7.0	4.1	4.7	8.5	-	-	-	-

Metals : by USEPA 3051A:2007 & APHA 3120B

Arsenic (As)	13.08	20.41	2.70	19.25	17.15	N.D.	19.14	N.D.	2.19	18.84	N.D.	-	76	2.00
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	22	2.00
Barium (Ba)	11.94	21.49	N.D.	17.17	20.57	N.D.	3.79	3.04	10.23	16.83	N.D.	-	-	2.00
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	13	2.00
Chromium (Cr)	14.43	15.16	N.D.	12.07	20.98	N.D.	20.33	N.D.	N.D.	11.82	N.D.	-	-	2.00
Copper (Cu)	33.04	21.97	N.D.	22.43	5.68	N.D.	11.06	N.D.	2.37	22.14	N.D.	-	190	2.00
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	190	2.00
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	2.00
Lead (Pb)	8.97	35.07	2.23	31.87	34.20	N.D.	11.96	N.D.	12.77	31.38	N.D.	-	530	2.00
Molybdenum (Mo)	10.61	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	190	2.00
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	100	2.00
Zinc (Zn)	70.73	101.92	N.D.	53.08	19.83	N.D.	39.85	N.D.	N.D.	51.93	N.D.	-	720	2.00
Organotin compounds (as Total Sn)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	2.5	1.00

Inorganic Compound : Cyanide (CN) by APHA 4500-CN (N)

Cyanide (total)*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	20	0.50

Total Cyanide consists of Free Cyanide, Complex Cyanide and Total Thiocyanates. In this study, the Target and Intervention values of Free Cyanide, which are the most stringent Target and Intervention values of all three Cyanide species, are applied to the concentration of Total Cyanide (i.e. Free Cyanide + Complex Cyanide + Total Thiocyanates).

Aromatic Compounds : BTEX - Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018

Benzene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	1.1	0.1
Ethylbenzene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	110	0.1
Toluene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	32	0.1
Xylene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	17	0.2
Styrene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	86	0.1

Aromatic Compounds : Semi-Volatile Organic Compounds (SVOC's) by USEPA 8270E:2018

Phenol	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	14	0.1
Cresols	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	13	0.2
Catechol	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	1.0
Resorcinol	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.4
Hydrochinon	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.4

STATS

TEST RESULTS FOR SOIL (in mg/kg unless otherwise specified):

Sample Bore Hole	TD 2096	TD 2096	TD 2096	TD 2097	TD 2097	TD 2097	TD 2100	TD 2100	TD 2100	QC	Method BLK	DUTCH	DUTCH	LOR
Sample No.	S1	S3	S4	S1	S3	S4	S1	S3	S4	-	-	(Target)	(Intervention)	-
Sample Depth m bgl	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	-	-	-	-	-
pH by BS 1377-3: 2018	8.2	6.3	5.8	8.5	6.8	6.1	7.0	4.1	4.7	8.5	-	-	-	-
Polynuclear Aromatic Hydrocarbon (PAH) : Semi-Volatile Organic Compounds (SVOC's) by USEPA 8270E:2018														
Naphthalene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Anthracene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Phenanthrene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Fluoranthene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Benzo(a)anthracene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Chrysene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Benzo(a)pyrene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Benzo(ghi)perylene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Benzo(k)fluoranthene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.2
Indeno(1,2,3cd)pyrene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.2
PAH (total of 10)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.2
Chlorinated Hydrocarbons : Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018														
Vinyl Chloride	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	40	0.2
Dichloromethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.1	0.1
1,1-Dichloroethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	3.9	0.1
1,2-Dichloroethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	15	0.1
1,1-Dichloroethene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	6.4	0.1
1,2-Dichloroethene (cis + trans)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.3	0.1
Dichloropropanes	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	1	0.1
Trichloromethane (Chloroform)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	2	0.1
1,1,1-Trichloroethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5.6	0.1
1,1,2-Trichloroethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	15	0.1
Trichloroethene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	10	0.1
Tetrachloromethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	2.5	0.1
Tetrachloroethene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.7	0.1
Chlorobenzenes (total of 6)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	8.8	0.1
Monochlorobenzene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.2
Dichlorobenzenes (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	15	0.1
Chlorinated Hydrocarbons : Semi-Volatile Organic Compounds (SVOC's) by USEPA 8270E:2018														
Trichlorobenzenes (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	19	0.1
Tetrachlorobenzenes (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	11	0.1
Pentachlorobenzenes	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	2.2	0.2
Hexachlorobenzenes	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	6.7	0.1
Chlorophenols (total of 5)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	2	0.1
Monochlorophenols (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.3
Dichlorophenols (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5.4	0.2
Trichlorophenols (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	22	0.3
Tetrachlorophenols (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	22	0.1
Pentachlorophenol	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	21	0.3
Chloronaphthalene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	12	0.4
Monochloroanilines	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	23	0.2
Polychlorobiphenyls (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	50	0.2
												-	1	0.1

STATS

TEST RESULTS FOR SOIL (in mg/kg unless otherwise specified):

Sample Bore Hole	TD 2096	TD 2096	TD 2096	TD 2097	TD 2097	TD 2097	TD 2100	TD 2100	TD 2100	QC	Method BLK	DUTCH	DUTCH	LOR
Sample No.	S1	S3	S4	S1	S3	S4	S1	S3	S4	-	-	(Target)	(Intervention)	-
Sample Depth m bgl	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	-	-	-	-	-
pH by BS 1377-3: 2018	8.2	6.3	5.8	8.5	6.8	6.1	7.0	4.1	4.7	8.5	-	-	-	-

Pesticides : Semi-Volatile Organic Compounds (SVOC's) by USEPA 8270E:2018

sum DDT/DDD/DDE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.2
DDT	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	1.7	0.2
DDE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	2.3	0.1
DDD	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	34	0.1
sum aldrin, dieldrin, endrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	4	0.1
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.32	0.1
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Endrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
sum HCH	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
a-HCH	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	17	0.1
b-HCH	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	1.6	0.1
g-HCH	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	1.2	0.1
d-HCH	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Atrazine	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.71	0.1
Carbaryl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.45	0.4
Carbofuran	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.017	0.4
Chlordane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	4	0.1
Endosulfan	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	4	0.1
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	4	0.1
Heptachlor Epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	4	0.1

Other Pollutants : Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018

Cyclohexanone	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	150	0.6
Tetrahydrofuran	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	7	0.2
Tetrahydrothiophene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	8.8	0.2
Tribromomethane (Bromoform)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	75	0.1

Other Pollutants : Semi-Volatile Organic Compounds (SVOC's) by USEPA 8270E:2018

Dimethyl phthalate (DMP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	82	0.2
Diethyl phthalate (DEP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	53	0.2
Di-isobutylphthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	17	0.2
Dibutylphthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	36	0.2
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	48	0.2
Dihexylphthalate (DHP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	220	0.2
Di(2-ethylhexyl)phthalate (DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	60	0.2
Phthalates (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.2
Pyridine	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	11	0.2
MCPA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	4	1.0

STATS

TEST RESULTS FOR SOIL (in mg/kg unless otherwise specified):

Sample Bore Hole	TD 2096	TD 2096	TD 2096	TD 2097	TD 2097	TD 2097	TD 2100	TD 2100	TD 2100	QC	Method BLK	DUTCH	DUTCH	LOR
Sample No.	S1	S3	S4	S1	S3	S4	S1	S3	S4	-	-	(Target)	(Intervention)	-
Sample Depth m bgl	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	-	-	-	-	-
pH by BS 1377-3: 2018	8.2	6.3	5.8	8.5	6.8	6.1	7.0	4.1	4.7	8.5	-	-	-	-

Other Pollutants : Asbestos by ISO 22262-1:2012 & AS 4964:2004

Asbestos	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	100	100

Other Pollutants : Total Petroleum Hydrocarbons (TPH) with reference to US EPA Method 8015C:2007

C6 - C9	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	10.0
C10 - C14	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.			10.0
C15 - C28	N.D.	N.D.	14.6	31.7	N.D.	26.0	N.D.	N.D.	N.D.	30.8	N.D.			10.0
C29 - C36	N.D.	N.D.	25.0	14.8	N.D.	21.9	N.D.	N.D.	N.D.	14.8	N.D.	-	-	10.0
C10-C36	N.D.	N.D.	39.6	46.5	N.D.	48.0	N.D.	N.D.	N.D.	45.6	N.D.	-	-	30.0
C6 - C36 (Total)	N.D.	N.D.	N.D.	46.5	N.D.	48.0	N.D.	N.D.	N.D.	45.6	N.D.	-	5,000**	40.0

(**Dutch Standard for mineral oil)

Miscellaneous : Moisture Content and Organic Matter (LOI) by BS 1377-2:1990 & BS 1377-3:2018

Moisture Content, %	27.10	18.12	30.65	12.74	31.96	27.18	41.70	19.17	18.96	12.61	-	-	-	0.01
Organic Matter (LOI), %	1.50	2.61	5.66	3.18	7.61	2.91	6.33	2.64	2.39	3.26	-	-	-	0.03

Surrogate Recovery by USEPA 8260D:2018

p-Bromofluorobenzene (%)	125	108	126	127	121	108	105	100	101	108	100
1,2-Dichloroethane-d4 (%)	89.0	74.0	113	89.0	98.0	78.0	73.0	82.0	88.0	81.0	97.0
Toluene-d8 (%)	112	117	120	94.0	122	107	98.0	103	97.0	111	94.0

Surrogate Recovery by USEPA 8270E:2018

Benzene-d5, nitro- (%)	97.4	92.4	90.8	83.1	90.3	91.3	84.9	88.2	84.6	90.3	97.3
1,1'-biphenyl,2-fluoro (%)	82.7	77.3	76.3	70.2	78.7	75.6	73.5	74.6	73.6	76.9	84.2
p-Terphenyl-d14 (%)	86.5	82.8	78.4	74.1	87.8	82.3	81.8	81.0	79.7	86.0	85.6
Phenol, 2-fluoro (%)	106	98.3	96.8	88.4	99.1	95.9	92.0	94.6	92.5	97.0	102
Phenol-d5 (%)	108	101	99.7	91.0	102	98.8	94.4	97.4	95.2	100	104
Phenol, 2,4,6-Tribromo (%)	79.7	73.0	73.1	66.0	75.7	71.3	68.3	69.6	68.4	72.6	84.1

Note:

1. APHA is a standard method for Determination of Water and Waste Water (APHA 23rd Edition, 2017).
2. LOR = Limit of Reporting. Detection Limit is based on the highest detection limit obtained from the individual compound.
3. "ND" = Not detected. The data reported is less than the LOR.
4. * Test was sub-contracted to external laboratory.

STATS

TEST RESULTS FOR WATER (in ug/L unless otherwise specified):

Sample ID / Monitoring Well	MW-TD/2100	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR	
Static Water Table Depth (m-TOC)	2.00	-	-	-	-	
pH value	4.5	-	-	-	-	APHA 4500-H$^+$(B)
@ Temperature (deg. C)	23.6	-	-	-	-	

Metals by APHA 3125B

Arsenic (As)	13.8	N.D.	10	60	2.0
Antimony (Sb)	N.D.	N.D.	-	20	2.0
Barium (Ba)	33.2	N.D.	50	625	2.0
Cadmium (Cd)	N.D.	N.D.	0.4	6	0.25
Chromium (Cr)	4.0	N.D.	1	30	0.5
Cobalt (Co)	N.D.	N.D.	20	100	2.0
Copper (Cu)	5.9	N.D.	15	75	2.0
Mercury (Hg)	N.D.	N.D.	0.05	0.3	0.1
Lead (Pb)	N.D.	N.D.	15	75	2.0
Molybdenum (Mo)	N.D.	N.D.	5	300	2.0
Nickel (Ni)	2.6	N.D.	15	75	2.0
Zinc (Zn)	19.7	N.D.	65	800	2.0
Organotin compounds (as Total Sn)	0.7	N.D.	-	0.7	0.5

Miscellaneous Analyses by APHA

BOD (mg/L)	9	N.D.	-	-	2.0	APHA 5210B
COD (mgO_2/L)	N.D.	N.D.	-	-	50	HACH 8000
TOC (mg/L)	24.3	N.D.	-	-	1.0	APHA 5310B
Fluoride (mg/L)	N.D.	N.D.	-	-	1.0	APHA 4110B
Chloride (mg/L)	58.5	N.D.	-	-	1.0	APHA 4110B
Bromide (mg/L)	1.3	N.D.	-	-	1.0	APHA 4110B
Phosphate (mg/L)	N.D.	N.D.	-	-	1.0	APHA 4110B
Sulphate (mg/L)	159.7	N.D.	-	-	1.0	APHA 4110B
Total Ammoniacal Nitrogen (mg/L)	3.07	N.D.	-	-	0.01	APHA 4500-NH_3

Inorganic Compound : Cyanide (CN) by APHA 4500-CN (N)

Cyanide (total)*	N.D.	N.D.	5	1,500	20

Total Cyanide consists of Free Cyanide, Complex Cyanide and Total Thiocyanates. In this study, the Target and Intervention values of Free Cyanide which are the most stringent. Target and Intervention values of all three Cyanide species, are applied to the concentration of Total Cyanide (i.e. Free Cyanide + Complex Cyanide + Total Thiocyanates).

Aromatic Compounds : BTEX - Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018

Benzene	N.D.	N.D.	0.2	30	20
Ethylbenzene	N.D.	N.D.	4	150	20
Toluene	N.D.	N.D.	7	1,000	20
Xylene	N.D.	N.D.	0.2	70	40
Styrene	N.D.	N.D.	0.6	300	20

STATS

TEST RESULTS FOR WATER (in ug/L unless otherwise specified):

Sample ID / Monitoring Well	MW-TD/2100	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR	
Static Water Table Depth (m-TOC)	2.00	-	-	-	-	
pH value	4.5	-	-	-	-	APHA 4500-H+(B)
@ Temperature (deg. C)	23.6	-	-	-	-	

Aromatic Compounds : Semi-Volatile Organic Compounds (SVOC's) by USEPA 3510C:1996 & USEPA 8270E:2018

Phenol	N.D.	N.D.	0.2	2,000	1.0
Cresols	N.D.	N.D.	0.2	200	2.0
Catechol	N.D.	N.D.	0.2	1,250	10
Resorcinol	N.D.	N.D.	0.2	600	4.0
Hydrochinon	N.D.	N.D.	0.2	800	4.0

Polynuclear Aromatic Hydrocarbon (PAH) : Semi-Volatile Organic Compounds (SVOC's) by USEPA 3510C:1996 & USEPA 8270E:2018

Naphthalene	1.0	N.D.	0.01	70	1.0
Anthracene	N.D.	N.D.	0.007	5	1.0
Phenanthrene	N.D.	N.D.	0.003	5	1.0
Fluoranthene	N.D.	N.D.	0.003	1	1.0
Benzo(a)anthracene	N.D.	N.D.	0.0001	0.5	1.0
Chrysene	N.D.	N.D.	0.003	0.2	1.0
Benzo(a)pyrene	N.D.	N.D.	0.001	0.05	2.0
Benzo(ghi)perylene	N.D.	N.D.	0.0003	0.05	2.0
Benzo(k)fluoranthene	N.D.	N.D.	0.0004	0.05	2.0
Indeno(1,2,3cd)pyrene	N.D.	N.D.	0.0004	0.05	2.0
PAH (total of 10)	N.D.	N.D.	-	-	2.0

Chlorinated Hydrocarbons : Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018

Vinyl Chloride	N.D.	N.D.	0.01	5	20
Dichloromethane	N.D.	N.D.	0.01	1,000	20
1,1-Dichloroethane	N.D.	N.D.	7	900	20
1,2-Dichloroethane	N.D.	N.D.	7	400	20
1,1-Dichloroethene	N.D.	N.D.	0.01	10	20
1,2-Dichloroethene (cis + trans)	N.D.	N.D.	0.01	20	20
Dichloropropanes	N.D.	N.D.	0.8	80	20
Trichloromethane (Chloroform)	N.D.	N.D.	6	400	20
1,1,1-Trichloroethane	N.D.	N.D.	0.01	300	20
1,1,2-Trichloroethane	N.D.	N.D.	0.01	130	20
Trichloroethene	N.D.	N.D.	24	500	20
Tetrachloromethane	N.D.	N.D.	0.01	10	20
Tetrachloroethene	N.D.	N.D.	0.01	40	20
Chlorobenzenes (total of 6)	N.D.	N.D.	-	-	20
Monochlorobenzene	N.D.	N.D.	7	180	20
Dichlorobenzenes (total)	N.D.	N.D.	3	50	20

STATS

TEST RESULTS FOR WATER (in ug/L unless otherwise specified):

Sample ID / Monitoring Well	MW-TD/2100	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR	
Static Water Table Depth (m-TOC)	2.00	-	-	-	-	
pH value	4.5	-	-	-	-	APHA 4500-H+(B)
@ Temperature (deg. C)	23.6	-	-	-	-	

Chlorinated Hydrocarbons : Semi-Volatile Organic Compounds (SVOC's) by USEPA 3510C:1996 & USEPA 8270E:2018

Trichlorobenzenes (total)	N.D.	N.D.	0.01	10	1.0
Tetrachlorobenzenes (total)	N.D.	N.D.	0.01	2.5	2.0
Pentachlorobenzenes	N.D.	N.D.	0.003	1	1.0
Hexachlorobenzenes	N.D.	N.D.	0.00009	0.5	1.0
Chlorophenols (total of 5)	N.D.	N.D.	-	-	3.0
Monochlorophenols (total)	N.D.	N.D.	0.30	100	2.0
Dichlorophenols (total)	N.D.	N.D.	0.20	30	3.0
Trichlorophenols (total)	N.D.	N.D.	0.03	10	1.0
Tetrachlorophenols (total)	N.D.	N.D.	0.01	10	3.0
Pentachlorophenol	N.D.	N.D.	0.04	3	4.0
Chloronaphthalene	N.D.	N.D.	-	6	2.0
Monochloroanilines	N.D.	N.D.	-	30	2.0
Polychlorobiphenyls (total)	N.D.	N.D.	0.01 (d)	0.01	1.0

Pesticides : Semi-Volatile Organic Compounds (SVOC's) by USEPA 3510C:1996 & USEPA 8270E:2018

sum DDT/DDD/DDE	N.D.	N.D.	0.000004	0.01	2.0
DDT	N.D.	N.D.	-	-	2.0
DDE	N.D.	N.D.	-	-	1.0
DDD	N.D.	N.D.	-	-	1.0
sum aldrin, dieldrin, endrin	N.D.	N.D.	-	0.1	1.0
Aldrin	N.D.	N.D.	0.000009	-	1.0
Dieldrin	N.D.	N.D.	0.0001	-	1.0
Endrin	N.D.	N.D.	0.00004	-	1.0
sum HCH	N.D.	N.D.	0.05	1	1.0
a-HCH	N.D.	N.D.	0.033	-	1.0
b-HCH	N.D.	N.D.	0.008	-	1.0
g-HCH	N.D.	N.D.	0.009	-	1.0
d-HCH	N.D.	N.D.	-	-	1.0
Atrazine	N.D.	N.D.	0.029	150	1.0
Carbaryl	N.D.	N.D.	0.002	50	4.0
Carbofuran	N.D.	N.D.	0.009	100	4.0
Chlordane	N.D.	N.D.	0.00002	0.2	1.0
Endosulfan	N.D.	N.D.	0.0002	5	1.0
Heptachlor	N.D.	N.D.	0.000005	0.3	1.0
Heptachlor Epoxide	N.D.	N.D.	0.000005	3	1.0

STATS

TEST RESULTS FOR WATER (in ug/L unless otherwise specified):

Sample ID / Monitoring Well	MW-TD/2100	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR	
Static Water Table Depth (m-TOC)	2.00	-			-	
pH value	4.5	-	-	-	-	APHA 4500-H+(B)
@ Temperature (deg. C)	23.6	-	-	-	-	

Other Pollutants : Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018

Cyclohexanone	N.D.	N.D.	0.5	15,000	120
Tetrahydrofuran	N.D.	N.D.	0.5	300	40
Tetrahydrothiophene	N.D.	N.D.	0.5	5000	40
Tribromomethane (Bromoform)	N.D.	N.D.	-	630	20

Other Pollutants : Semi-Volatile Organic Compounds (SVOC's) by USEPA 3510C:1996 & USEPA 8270E:2018

Phthalates (total)	N.D.	N.D.	0.5	5	2.0
Pyridine	N.D.	N.D.	0.5	30	2.0
MCPA	N.D.	N.D.	-	50	1.0

Other Pollutants : Total Petroleum Hydrocarbons (TPH) with reference to US EPA Method 8015C:2007

C6 - C9	N.D.	N.D.	-	-	20
C10 - C14	N.D.	N.D.	-	-	50
C15 - C28	66	N.D.	-	-	50
C29 - C36	N.D.	N.D.	-	-	50
C10 - C36	N.D.	N.D.	-	-	150
C6 - C36 (Total)	N.D.	N.D.	50**	600**	170

(**Dutch Standard for mineral oil)

Surrogate Recovery by USEPA 8260D:2018

p-Bromofluorobenzene (%)	102	100
1,2-Dichloroethane-d4 (%)	110	97.0
Toluene-d8 (%)	106	94.0

Surrogate Recovery by USEPA 8270E:2018

Benzene-d5, nitro- (%)	101	103
1,1'-biphenyl,2-fluoro (%)	82.5	90.2
p-Terphenyl-d14 (%)	83.0	88.6
Phenol, 2-fluoro (%)	106	109
Phenol-d5 (%)	108	110
Phenol, 2,4,6-Tribromo (%)	79.3	91.1

Note:

1. APHA is a standard method for Determination of Water and Waste Water (APHA 23rd Edition, 2017).
2. LOR = Limit of Reporting. Detection Limit is based on the highest detection limit obtained from the individual compound.
3. "ND" = Not detected. The data reported is less than the LOR.
4. * Test was sub-contracted to external laboratory.

STATS

TEST RESULTS FOR WATER (in ug/L unless otherwise specified):

Sample ID / Monitoring Well	EB-1	EB-2	EB-3	EB-4	TB-1	TB-2	TB-3	TB-4	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR
Static Water Table Depth (m-TOC)	-	-	-	-	-	-	-	-	-	-	-	-
pH value (APHA 4500-H^+(B))	-	-	-	-	-	-	-	-	-	-	-	-
@ Temperature (deg. C)	-	-	-	-	-	-	-	-	-	-	-	-
Metals by APHA 3125B												
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	10	60	2.0
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	-	20	2.0
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	50	625	2.0
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.4	6	0.25
Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	1	30	0.5
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	20	100	2.0
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	15	75	2.0
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.05	0.3	0.1
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	15	75	2.0
Molybdenum (Mo)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	5	300	2.0
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	15	75	2.0
Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	65	800	2.0
Organotin compounds (as Total Sn)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	-	0.7	0.5
Aromatic Compounds : BTEX - Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018												
Benzene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	30	20
Ethylbenzene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	4	150	20
Toluene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	7	1,000	20
Xylene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	70	40
Styrene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.6	300	20
Polynuclear Aromatic Hydrocarbon (PAH) : Semi-Volatile Organic Compounds (SVOC's) by USEPA 3510C:1996 & USEPA 8270E:2018												
Naphthalene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.01	70	1.0
Anthracene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.007	5	1.0
Phenanthrene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.003	5	1.0
Fluoranthene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.003	1	1.0
Benzo(a)anthracene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.0001	0.5	1.0
Chrysene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.003	0.2	1.0
Benzo(a)pyrene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.001	0.05	2.0
Benzo(ghi)perylene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.0003	0.05	2.0
Benzo(k)fluoranthene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.0004	0.05	2.0
Indeno(1,2,3cd)pyrene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.0004	0.05	2.0
PAH (total of 10)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	-	-	2.0
Chlorinated Hydrocarbons : Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018												
Vinyl Chloride	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.01	5	20
Dichloromethane	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.01	1,000	20
1,1-Dichloroethane	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	7	900	20
1,2-Dichloroethane	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	7	400	20
1,1-Dichloroethene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.01	10	20
1,2-Dichloroethene (cis + trans)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.01	20	20
Dichloropropanes	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.8	80	20
Trichloromethane (Chloroform)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	6	400	20
1,1,1-Trichloroethane	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.01	300	20
1,1,2-Trichloroethane	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.01	130	20
Trichloroethene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	24	500	20
Tetrachloromethane	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.01	10	20
Tetrachloroethene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.01	40	20
Chlorobenzenes (total of 6)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	-	-	20
Monochlorobenzene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	7	180	20
Dichlorobenzenes (total)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	3	50	20

STATS

TEST RESULTS FOR WATER (in ug/L unless otherwise specified):

Sample ID / Monitoring Well	EB-1	EB-2	EB-3	EB-4	TB-1	TB-2	TB-3	TB-4	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR
Static Water Table Depth (m-TOC)	-	-	-	-	-	-	-	-	-	-	-	-
pH value (APHA 4500-H^+(B))	-	-	-	-	-	-	-	-	-	-	-	-
@ Temperature (deg. C)	-	-	-	-	-	-	-	-	-	-	-	-
Chlorinated Hydrocarbons : Semi-Volatile Organic Compounds (SVOC's) by USEPA 3510C:1996 & USEPA 8270E:2018												
Trichlorobenzenes (total)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.01	10	1.0
Tetrachlorobenzenes (total)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.01	2.5	2.0
Pentachlorobenzenes	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.003	1	1.0
Hexachlorobenzenes	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.00009	0.5	1.0
Chlorophenols (total of 5)	-	-	-	-	-	-	-	-	N.D.	-	-	3.0
Monochlorophenols (total)	-	-	-	-	-	-	-	-	N.D.	0.30	100	2.0
Dichlorophenols (total)	-	-	-	-	-	-	-	-	N.D.	0.20	30	3.0
Trichlorophenols (total)	-	-	-	-	-	-	-	-	N.D.	0.03	10	1.0
Tetrachlorophenols (total)	-	-	-	-	-	-	-	-	N.D.	0.01	10	3.0
Pentachlorophenol	-	-	-	-	-	-	-	-	N.D.	0.04	3	4.0
Chloronaphthalene	-	-	-	-	-	-	-	-	N.D.	-	6	2.0
Monochloroanilines	-	-	-	-	-	-	-	-	N.D.	-	30	2.0
Polychlorobiphenyls (total)	-	-	-	-	-	-	-	-	N.D.	0.01 (d)	0.01	1.0
Other Pollutants : Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018												
Cyclohexanone	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.5	15,000	120
Tetrahydrofuran	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.5	300	40
Tetrahydrothiophene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.5	5000	40
Tribromomethane (Bromoform)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	-	630	20
Other Pollutants : Total Petroleum Hydrocarbons (TPH) with reference to US EPA Method 8015C:2007												
C6 - C9	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	-	-	20
C10 - C14	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	-	-	50
C15 - C28	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	-	-	50
C29 - C36	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	-	-	50
C10 - C36	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	-	-	150
C6 - C36 (Total)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	50**	600**	170

(**Dutch Standard for mineral oil)

Surrogate Recovery by USEPA 8260D:2018

p-Bromofluorobenzene (%)	85.0	83.0	111	94.0	100	112	101	94.0	100
1,2-Dichloroethane-d4 (%)	75.0	87.0	99.0	74.0	76.0	98.0	77.0	89.0	97.0
Toluene-d8 (%)	114	111	117	107	104	111	108	113	94.0

Surrogate Recovery by USEPA 8270E:2018

Benzene-d5, nitro- (%)	106	94.1	103	101	-	-	-	-	103
1,1'-biphenyl,2-fluoro (%)	89.8	79.5	88.2	87.1	-	-	-	-	90.2
p-Terphenyl-d14 (%)	91.5	79.3	85.4	87.0	-	-	-	-	88.6
Phenol, 2-fluoro (%)	109	96.9	105	105	-	-	-	-	109
Phenol-d5 (%)	110	98.3	107	106	-	-	-	-	110
Phenol, 2,4,6-Tribromo (%)	91.7	78.6	84.5	84.7	-	-	-	-	91.1

Note:

1. APHA is a standard method for Determination of Water and Waste Water (APHA 23rd Edition, 2017).
2. LOR = Limit of Reporting. Detection Limit is based on the highest detection limit obtained from the individual compound.
3. "ND" = Not detected. The data reported is less than the LOR.

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TEST REPORT

(This report is issued subject to the terms & conditions set out below)

Your Ref : - **Our Ref : ENV-2210662-5A** **Date : 22 November 2022**

Subject	:	Analysis of soil and water samples submitted by Ryobi Geotechnique International Pte Ltd on 31 October 2022 and testing commenced on 01 November 2022.
Tested for	:	**Ryobi Geotechnique International Pte Ltd** 70 Sungei Kadut Loop Singapore 729511
Sample Reference	:	3 soil samples + 2 water samples were received. [Location: Sungei Kadut]
Results :	:	**Refer Page 2 to 7**

Signed for and on behalf of STATS Asia Pacific Pte Ltd

LEI ZHI PEI
DIRECTOR

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STATS

TEST RESULTS FOR SOIL (in mg/kg unless otherwise specified):

Sample Bore Hole	TD 2101	TD 2101	TD 2101	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR
Sample No.	S1	S3	S4	-	-	-	-
Sample Depth m bgl	0.5-0.7	3.0-3.2	4.5-4.7	-	-	-	-
pH by BS 1377-3: 2018	6.5	8.1	7.8	-	-	-	-
Metals : by USEPA 3051A:2007 & APHA 3120B							
Arsenic (As)	29.60	2.85	N.D.	N.D.	-	76	2.00
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	-	22	2.00
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	-	-	2.00
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	-	13	2.00
Chromium (Cr)	2.55	N.D.	2.23	N.D.	-	-	2.00
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	-	190	2.00
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	-	190	2.00
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	-	-	2.00
Lead (Pb)	N.D.	N.D.	9.84	N.D.	-	530	2.00
Molybdenum (Mo)	14.08	N.D.	N.D.	N.D.	-	190	2.00
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	-	100	2.00
Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	-	720	2.00
Organotin compounds (as Total Sn)	N.D.	N.D.	N.D.	N.D.	-	2.5	1.00
Inorganic Compound : Cyanide (CN) by APHA 4500-CN (E)							
Cyanide (total)	N.D.	N.D.	N.D.	N.D.	-	20	0.50
Aromatic Compounds : BTEX - Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018							
Benzene	N.D.	N.D.	N.D.	N.D.	-	1.1	0.1
Ethylbenzene	N.D.	N.D.	N.D.	N.D.	-	110	0.1
Toluene	N.D.	N.D.	N.D.	N.D.	-	32	0.1
Xylene	N.D.	N.D.	N.D.	N.D.	-	17	0.2
Styrene	N.D.	N.D.	N.D.	N.D.	-	86	0.1
Aromatic Compounds : Semi-Volatile Organic Compounds (SVOC's) by USEPA 8270E:2018							
Phenol	N.D.	N.D.	N.D.	N.D.	-	14	0.1
Cresols	N.D.	N.D.	N.D.	N.D.	-	13	0.2
Catechol	N.D.	N.D.	N.D.	N.D.	-	-	1.0
Resorcinol	N.D.	N.D.	N.D.	N.D.	-	-	0.4
Hydrochinon	N.D.	N.D.	N.D.	N.D.	-	-	0.4

Total Cyanide consists of Free Cyanide, Complex Cyanide and Total Thiocyanates. In this study, the Target and Intervention values of Free Cyanide, which are the most stringent Target and Intervention values of all three Cyanide species, are applied to the concentration of Total Cyanide (i.e. Free Cyanide + Complex Cyanide + Total Thiocyanates).

STATS

TEST RESULTS FOR SOIL (in mg/kg unless otherwise specified):

Sample Bore Hole	TD 2101	TD 2101	TD 2101	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR
Sample No.	S1	S3	S4	-	-	-	-
Sample Depth m bgl	0.5-0.7	3.0-3.2	4.5-4.7	-	-	-	-
pH by BS 1377-3: 2018	6.5	8.1	7.8	-	-	-	-
Polynuclear Aromatic Hydrocarbon (PAH) : Semi-Volatile Organic Compounds (SVOC's) by USEPA 8270E:2018							
Naphthalene	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Anthracene	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Phenanthrene	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Fluoranthene	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Benzo(a)anthracene	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Chrysene	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Benzo(a)pyrene	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Benzo(ghi)perylene	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Benzo(k)fluoranthene	N.D.	N.D.	N.D.	N.D.	-	-	0.2
Indeno(1,2,3cd)pyrene	N.D.	N.D.	N.D.	N.D.	-	-	0.2
PAH (total of 10)	N.D.	N.D.	N.D.	N.D.	-	40	0.2
Chlorinated Hydrocarbons : Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018							
Vinyl Chloride	N.D.	N.D.	N.D.	N.D.	-	0.1	0.1
Dichloromethane	N.D.	N.D.	N.D.	N.D.	-	3.9	0.1
1,1-Dichloroethane	N.D.	N.D.	N.D.	N.D.	-	15	0.1
1,2-Dichloroethane	N.D.	N.D.	N.D.	N.D.	-	6.4	0.1
1,1-Dichloroethene	N.D.	N.D.	N.D.	N.D.	-	0.3	0.1
1,2-Dichloroethene (cis + trans)	N.D.	N.D.	N.D.	N.D.	-	1	0.1
Dichloropropanes	N.D.	N.D.	N.D.	N.D.	-	2	0.1
Trichloromethane (Chloroform)	N.D.	N.D.	N.D.	N.D.	-	5.6	0.1
1,1,1-Trichloroethane	N.D.	N.D.	N.D.	N.D.	-	15	0.1
1,1,2-Trichloroethane	N.D.	N.D.	N.D.	N.D.	-	10	0.1
Trichloroethene	N.D.	N.D.	N.D.	N.D.	-	2.5	0.1
Tetrachloromethane	N.D.	N.D.	N.D.	N.D.	-	0.7	0.1
Tetrachloroethene	N.D.	N.D.	N.D.	N.D.	-	8.8	0.1
Chlorobenzenes (total of 6)	N.D.	N.D.	N.D.	N.D.	-	-	0.2
Monochlorobenzene	N.D.	N.D.	N.D.	N.D.	-	15	0.1
Dichlorobenzenes (total)	N.D.	N.D.	N.D.	N.D.	-	19	0.1
Chlorinated Hydrocarbons : Semi-Volatile Organic Compounds (SVOC's) by USEPA 8270E:2018							
Trichlorobenzenes (total)	N.D.	N.D.	N.D.	N.D.	-	11	0.1
Tetrachlorobenzenes (total)	N.D.	N.D.	N.D.	N.D.	-	2.2	0.2
Pentachlorobenzenes	N.D.	N.D.	N.D.	N.D.	-	6.7	0.1
Hexachlorobenzenes	N.D.	N.D.	N.D.	N.D.	-	2	0.1
Chlorophenols (total of 5)	N.D.	N.D.	N.D.	N.D.	-	-	0.3
Monochlorophenols (total)	N.D.	N.D.	N.D.	N.D.	-	5.4	0.2
Dichlorophenols (total)	N.D.	N.D.	N.D.	N.D.	-	22	0.3
Trichlorophenols (total)	N.D.	N.D.	N.D.	N.D.	-	22	0.1
Tetrachlorophenols (total)	N.D.	N.D.	N.D.	N.D.	-	21	0.3
Pentachlorophenol	N.D.	N.D.	N.D.	N.D.	-	12	0.4
Chloronaphthalene	N.D.	N.D.	N.D.	N.D.	-	23	0.2
Monochloroanilines	N.D.	N.D.	N.D.	N.D.	-	50	0.2
Polychlorobiphenyls (total)	N.D.	N.D.	N.D.	N.D.	-	1	0.1

STATS

TEST RESULTS FOR SOIL (in mg/kg unless otherwise specified):

Sample Bore Hole	TD 2101	TD 2101	TD 2101	Method BLK	DUTCH	DUTCH	LOR
Sample No.	S1	S3	S4	-	(Target)	(Intervention)	-
Sample Depth m bgl	0.5-0.7	3.0-3.2	4.5-4.7	-	-	-	-
pH by BS 1377-3: 2018	6.5	8.1	7.8	-	-	-	-

Pesticides : Semi-Volatile Organic Compounds (SVOC's) by USEPA 8270E:2018

sum DDT/DDD/DDE	N.D.	N.D.	N.D.	N.D.	-	-	0.2
DDT	N.D.	N.D.	N.D.	N.D.	-	1.7	0.2
DDE	N.D.	N.D.	N.D.	N.D.	-	2.3	0.1
DDD	N.D.	N.D.	N.D.	N.D.	-	34	0.1
sum aldrin, dieldrin, endrin	N.D.	N.D.	N.D.	N.D.	-	4	0.1
Aldrin	N.D.	N.D.	N.D.	N.D.	-	0.32	0.1
Dieldrin	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Endrin	N.D.	N.D.	N.D.	N.D.	-	-	0.1
sum HCH	N.D.	N.D.	N.D.	N.D.	-	-	0.1
a-HCH	N.D.	N.D.	N.D.	N.D.	-	17	0.1
b-HCH	N.D.	N.D.	N.D.	N.D.	-	1.6	0.1
g-HCH	N.D.	N.D.	N.D.	N.D.	-	1.2	0.1
d-HCH	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Atrazine	N.D.	N.D.	N.D.	N.D.	-	0.71	0.1
Carbaryl	N.D.	N.D.	N.D.	N.D.	-	0.45	0.4
Carbofuran	N.D.	N.D.	N.D.	N.D.	-	0.017	0.4
Chlordane	N.D.	N.D.	N.D.	N.D.	-	4	0.1
Endosulfan	N.D.	N.D.	N.D.	N.D.	-	4	0.1
Heptachlor	N.D.	N.D.	N.D.	N.D.	-	4	0.1
Heptachlor Epoxide	N.D.	N.D.	N.D.	N.D.	-	4	0.1

Other Pollutants : Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018

Cyclohexanone	N.D.	N.D.	N.D.	N.D.	-	150	0.6
Tetrahydrofuran	N.D.	N.D.	N.D.	N.D.	-	7	0.2
Tetrahydrothiophene	N.D.	N.D.	N.D.	N.D.	-	8.8	0.2
Tribromomethane (Bromoform)	N.D.	N.D.	N.D.	N.D.	-	75	0.1

Other Pollutants : Semi-Volatile Organic Compounds (SVOC's) by USEPA 8270E:2018

Dimethyl phthalate (DMP)	N.D.	N.D.	N.D.	N.D.	-	82	0.2
Diethyl phthalate (DEP)	N.D.	N.D.	N.D.	N.D.	-	53	0.2
Di-isobutylphthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	-	17	0.2
Dibutylphthalate (DBP)	N.D.	N.D.	N.D.	N.D.	-	36	0.2
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	-	48	0.2
Dihexylphthalate (DHP)	N.D.	N.D.	N.D.	N.D.	-	220	0.2
Di(2-ethylhexyl)phthalate (DEHP)	N.D.	N.D.	N.D.	N.D.	-	60	0.2
Phthalates (total)	N.D.	N.D.	N.D.	N.D.	-	-	0.2
Pyridine	N.D.	N.D.	N.D.	N.D.	-	11	0.2
MCPA	N.D.	N.D.	N.D.	N.D.	-	4	1.0

STATS

TEST RESULTS FOR SOIL (in mg/kg unless otherwise specified):

Sample Bore Hole	TD 2101	TD 2101	TD 2101	Method BLK	DUTCH	DUTCH	LOR
Sample No.	S1	S3	S4	-	(Target)	(Intervention)	-
Sample Depth m bgl	0.5-0.7	3.0-3.2	4.5-4.7	-	-	-	-
pH by BS 1377-3: 2018	6.5	8.1	7.8	-	-	-	-

Other Pollutants : Asbestos by ISO 22262-1:2012 & AS 4964:2004

Asbestos	N.D.	N.D.	N.D.	N.D.	-	100	100

Other Pollutants : Total Petroleum Hydrocarbons (TPH) with reference to US EPA Method 8015C:2007

C6 - C9	N.D.	N.D.	N.D.	N.D.	-	-	10.0
C10 - C14	N.D.	N.D.	N.D.	N.D.			10.0
C15 - C28	N.D.	N.D.	N.D.	N.D.			10.0
C29 - C36	N.D.	N.D.	N.D.	N.D.	-	-	10.0
C10-C36	N.D.	N.D.	N.D.	N.D.	-	-	30.0
C6 - C36 (Total)	N.D.	N.D.	N.D.	N.D.	-	5,000**	40.0

(**Dutch Standard for mineral oil)

Miscellaneous : Moisture Content and Organic Matter (LOI) by BS 1377-2:1990 & BS 1377-3:2018

Moisture Content, %	15.06	13.59	34.67	-	-	-	0.01
Organic Matter (LOI), %	3.53	1.19	10.78	-	-	-	0.03

Surrogate Recovery by USEPA 8260D:2018

p-Bromofluorobenzene (%)	85.0	90.0	94.0	100
1,2-Dichloroethane-d4 (%)	79.0	98.0	78.0	97.0
Toluene-d8 (%)	114	103	105	94.0

Surrogate Recovery by USEPA 8270E:2018

Benzene-d5, nitro- (%)	76.1	87.0	89.7	98.6
1,1'-biphenyl,2-fluoro (%)	64.4	73.0	75.3	91.2
p-Terphenyl-d14 (%)	63.8	73.5	73.5	74.4
Phenol, 2-fluoro (%)	75.8	86.7	89.0	92.2
Phenol-d5 (%)	74.8	85.8	88.2	93.1
Phenol, 2,4,6-Tribromo (%)	73.1	84.3	87.4	95.9

Note:

1. APHA is a standard method for Determination of Water and Waste Water (APHA 23rd Edition, 2017).
2. LOR = Limit of Reporting. Detection Limit is based on the highest detection limit obtained from the individual compound.
3. "ND" = Not detected. The data reported is less than the LOR.

STATS

TEST RESULTS FOR WATER (in ug/L unless otherwise specified):

Sample ID / Monitoring Well	EB-1	TB-1	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR
Static Water Table Depth (m-TOC)	-	-	-	-	-	-
pH value (APHA 4500-H+(B))	-	-	-	-	-	-
@ Temperature (deg. C)	-	-	-	-	-	-
Metals by APHA 3125B						
Arsenic (As)	N.D.	-	N.D.	10	60	2.0
Antimony (Sb)	N.D.	-	N.D.	-	20	2.0
Barium (Ba)	N.D.	-	N.D.	50	625	2.0
Cadmium (Cd)	N.D.	-	N.D.	0.4	6	0.25
Chromium (Cr)	N.D.	-	N.D.	1	30	0.5
Cobalt (Co)	N.D.	-	N.D.	20	100	2.0
Copper (Cu)	N.D.	-	N.D.	15	75	2.0
Mercury (Hg)	N.D.	-	N.D.	0.05	0.3	0.1
Lead (Pb)	N.D.	-	N.D.	15	75	2.0
Molybdenum (Mo)	N.D.	-	N.D.	5	300	2.0
Nickel (Ni)	N.D.	-	N.D.	15	75	2.0
Zinc (Zn)	N.D.	-	N.D.	65	800	2.0
Organotin compounds (as Total Sn)	N.D.	-	N.D.	-	0.7	0.5
Aromatic Compounds : BTEX - Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018						
Benzene	N.D.	N.D.	N.D.	0.2	30	20
Ethylbenzene	N.D.	N.D.	N.D.	4	150	20
Toluene	N.D.	N.D.	N.D.	7	1,000	20
Xylene	N.D.	N.D.	N.D.	0.2	70	40
Styrene	N.D.	N.D.	N.D.	0.6	300	20
Polynuclear Aromatic Hydrocarbon (PAH) : Semi-Volatile Organic Compounds (SVOC's) by USEPA 3510C:1996 & USEPA 8270E:2018						
Naphthalene	N.D.	-	N.D.	0.01	70	1.0
Anthracene	N.D.	-	N.D.	0.007	5	1.0
Phenanthrene	N.D.	-	N.D.	0.003	5	1.0
Fluoranthene	N.D.	-	N.D.	0.003	1	1.0
Benzo(a)anthracene	N.D.	-	N.D.	0.0001	0.5	1.0
Chrysene	N.D.	-	N.D.	0.003	0.2	1.0
Benzo(a)pyrene	N.D.	-	N.D.	0.001	0.05	2.0
Benzo(ghi)perylene	N.D.	-	N.D.	0.0003	0.05	2.0
Benzo(k)fluoranthene	N.D.	-	N.D.	0.0004	0.05	2.0
Indeno(1,2,3cd)pyrene	N.D.	-	N.D.	0.0004	0.05	2.0
PAH (total of 10)	N.D.	-	N.D.	-	-	2.0
Chlorinated Hydrocarbons : Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018						
Vinyl Chloride	N.D.	-	N.D.	0.01	5	20
Dichloromethane	N.D.	-	N.D.	0.01	1,000	20
1,1-Dichloroethane	N.D.	-	N.D.	7	900	20
1,2-Dichloroethane	N.D.	-	N.D.	7	400	20
1,1-Dichloroethene	N.D.	-	N.D.	0.01	10	20
1,2-Dichloroethene (cis + trans)	N.D.	-	N.D.	0.01	20	20
Dichloropropanes	N.D.	-	N.D.	0.8	80	20
Trichloromethane (Chloroform)	N.D.	-	N.D.	6	400	20
1,1,1-Trichloroethane	N.D.	-	N.D.	0.01	300	20
1,1,2-Trichloroethane	N.D.	-	N.D.	0.01	130	20
Trichloroethene	N.D.	-	N.D.	24	500	20
Tetrachloromethane	N.D.	-	N.D.	0.01	10	20
Tetrachloroethene	N.D.	-	N.D.	0.01	40	20
Chlorobenzenes (total of 6)	N.D.	-	N.D.	-	-	20
Monochlorobenzene	N.D.	-	N.D.	7	180	20
Dichlorobenzenes (total)	N.D.	-	N.D.	3	50	20

STATS

TEST RESULTS FOR WATER (in ug/L unless otherwise specified):

Sample ID / Monitoring Well	EB-1	TB-1	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR
Static Water Table Depth (m-TOC)	-	-	-	-	-	-
pH value (APHA 4500-H$^+$(B))	-	-	-	-	-	-
@ Temperature (deg. C)	-	-	-	-	-	-

Chlorinated Hydrocarbons : Semi-Volatile Organic Compounds (SVOC's) by USEPA 3510C:1996 & USEPA 8270E:2018

Trichlorobenzenes (total)	N.D.	-	N.D.	0.01	10	1.0
Tetrachlorobenzenes (total)	N.D.	-	N.D.	0.01	2.5	2.0
Pentachlorobenzenes	N.D.	-	N.D.	0.003	1	1.0
Hexachlorobenzenes	N.D.	-	N.D.	0.00009	0.5	1.0
Chlorophenols (total of 5)	-	-	N.D.	-	-	3.0
Monochlorophenols (total)	-	-	N.D.	0.30	100	2.0
Dichlorophenols (total)	-	-	N.D.	0.20	30	3.0
Trichlorophenols (total)	-	-	N.D.	0.03	10	1.0
Tetrachlorophenols (total)	-	-	N.D.	0.01	10	3.0
Pentachlorophenol	-	-	N.D.	0.04	3	4.0
Chloronaphthalene	-	-	N.D.	-	6	2.0
Monochloroanilines	-	-	N.D.	-	30	2.0
Polychlorobiphenyls (total)	-	-	N.D.	0.01 (d)	0.01	1.0

Other Pollutants : Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018

Cyclohexanone	N.D.	-	N.D.	0.5	15,000	120
Tetrahydrofuran	N.D.	-	N.D.	0.5	300	40
Tetrahydrothiophene	N.D.	-	N.D.	0.5	5000	40
Tribromomethane (Bromoform)	N.D.	-	N.D.	-	630	20

Other Pollutants : Total Petroleum Hydrocarbons (TPH) with reference to US EPA Method 8015C:2007

C6 - C9	N.D.	-	N.D.	-	-	20
C10 - C14	N.D.	-	N.D.	-	-	50
C15 - C28	N.D.	-	N.D.	-	-	50
C29 - C36	N.D.	-	N.D.	-	-	50
C10 - C36	N.D.	-	N.D.	-	-	150
C6 - C36 (Total)	N.D.	-	N.D.	50**	600**	170

(**Dutch Standard for mineral oil)

Surrogate Recovery by USEPA 8260D:2018

p-Bromofluorobenzene (%)	89.0	118	100
1,2-Dichloroethane-d4 (%)	94.0	104	97.0
Toluene-d8 (%)	103	110	94.0

Surrogate Recovery by USEPA 8270E:2018

Benzene-d5, nitro- (%)	90.3	-	N.D.
1,1'-biphenyl,2-fluoro (%)	76.3	-	N.D.
p-Terphenyl-d14 (%)	64.8	-	N.D.
Phenol, 2-fluoro (%)	78.9	-	N.D.
Phenol-d5 (%)	80.9	-	N.D.
Phenol, 2,4,6-Tribromo (%)	80.3	-	N.D.

Note:

1. APHA is a standard method for Determination of Water and Waste Water (APHA 23rd Edition, 2017).
2. LOR = Limit of Reporting. Detection Limit is based on the highest detection limit obtained from the individual compound.
3. "ND" = Not detected. The data reported is less than the LOR.

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TEST REPORT

(This report is issued subject to the terms & conditions set out below)

Your Ref : - **Our Ref : ENV-2210662-5B** **Date : 23 November 2022**

Subject	:	Analysis of water sample submitted by Ryobi Geotechnique International Pte Ltd on 07 November 2022 and testing commenced on 07 November 2022.
Tested for	:	**Ryobi Geotechnique International Pte Ltd** 70 Sungei Kadut Loop Singapore 729511
Sample Reference	:	1 water sample was received. [Location: Sungei Kadut]
Results :	:	**Refer Page 2 to 5**

Signed for and on behalf of STATS Asia Pacific Pte Ltd

LEI ZHI PEI
DIRECTOR

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STATS

TEST RESULTS FOR WATER (in ug/L unless otherwise specified):

Sample ID / Monitoring Well	TD 2101	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR	
Static Water Table Depth (m-TOC)	2.70	-	-	-	-	
pH value	7.2	-	-	-	-	
@ Temperature (deg. C)	21.9	-	-	-	-	APHA 4500-H^+(B)

Metals by APHA 3125B

Arsenic (As)	N.D.	N.D.	10	60	2.0
Antimony (Sb)	N.D.	N.D.	-	20	2.0
Barium (Ba)	4.0	N.D.	50	625	2.0
Cadmium (Cd)	N.D.	N.D.	0.4	6	0.25
Chromium (Cr)	21.7	N.D.	1	30	0.5
Cobalt (Co)	N.D.	N.D.	20	100	2.0
Copper (Cu)	N.D.	N.D.	15	75	2.0
Mercury (Hg)	N.D.	N.D.	0.05	0.3	0.1
Lead (Pb)	N.D.	N.D.	15	75	2.0
Molybdenum (Mo)	N.D.	N.D.	5	300	2.0
Nickel (Ni)	10.4	N.D.	15	75	2.0
Zinc (Zn)	28.6	N.D.	65	800	2.0
Organotin compounds (as Total Sn)	N.D.	N.D.	-	0.7	0.5

Miscellaneous Analyses by APHA

BOD (mg/L)	2	N.D.	-	-	2.0	APHA 5210B
COD (mgO_2/L)	N.D.	N.D.	-	-	50	HACH 8000
TOC (mg/L)	2.3	N.D.	-	-	1.0	APHA 5310B
Fluoride (mg/L)	N.D.	N.D.	-	-	1.0	APHA 4110B
Chloride (mg/L)	3.0	N.D.	-	-	1.0	APHA 4110B
Bromide (mg/L)	N.D.	N.D.	-	-	1.0	APHA 4110B
Phosphate (mg/L)	N.D.	N.D.	-	-	1.0	APHA 4110B
Sulphate (mg/L)	289.3	N.D.	-	-	1.0	APHA 4110B
Total Ammoniacal Nitrogen (mg/L)	2.56	N.D.	-	-	0.01	APHA 4500-NH_3

Inorganic Compound : Cyanide (CN) by APHA 4500-CN (N)

Cyanide (total)	N.D.	N.D.	5	1,500	20

Total Cyanide consists of Free Cyanide, Complex Cyanide and Total Thiocyanates. In this study, the Target and Intervention values of Free Cyanide which are the most stringent. Target and Intervention values of all three Cyanide species, are applied to the concentration of Total Cyanide (i.e. Free Cyanide + Complex Cyanide + Total Thiocyanates).

Aromatic Compounds : BTEX - Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018

Benzene	N.D.	N.D.	0.2	30	20
Ethylbenzene	N.D.	N.D.	4	150	20
Toluene	N.D.	N.D.	7	1,000	20
Xylene	N.D.	N.D.	0.2	70	40
Styrene	N.D.	N.D.	0.6	300	20

STATS

TEST RESULTS FOR WATER (in ug/L unless otherwise specified):

Sample ID / Monitoring Well	TD 2101	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR	
Static Water Table Depth (m-TOC)	2.70	-	-	-	-	
pH value	7.2	-	-	-	-	APHA 4500-H+(B)
@ Temperature (deg. C)	21.9	-	-	-	-	

Aromatic Compounds : Semi-Volatile Organic Compounds (SVOC's) by USEPA 3510C:1996 & USEPA 8270E:2018

Phenol	N.D.	N.D.	0.2	2,000	1.0
Cresols	N.D.	N.D.	0.2	200	2.0
Catechol	N.D.	N.D.	0.2	1,250	10
Resorcinol	N.D.	N.D.	0.2	600	4.0
Hydrochinon	N.D.	N.D.	0.2	800	4.0

Polynuclear Aromatic Hydrocarbon (PAH) : Semi-Volatile Organic Compounds (SVOC's) by USEPA 3510C:1996 & USEPA 8270E:2018

Naphthalene	1.0	N.D.	0.01	70	1.0
Anthracene	N.D.	N.D.	0.007	5	1.0
Phenanthrene	N.D.	N.D.	0.003	5	1.0
Fluoranthene	N.D.	N.D.	0.003	1	1.0
Benzo(a)anthracene	N.D.	N.D.	0.0001	0.5	1.0
Chrysene	N.D.	N.D.	0.003	0.2	1.0
Benzo(a)pyrene	N.D.	N.D.	0.001	0.05	2.0
Benzo(ghi)perylene	N.D.	N.D.	0.0003	0.05	2.0
Benzo(k)fluoranthene	N.D.	N.D.	0.0004	0.05	2.0
Indeno(1,2,3cd)pyrene	N.D.	N.D.	0.0004	0.05	2.0
PAH (total of 10)	N.D.	N.D.	-	-	2.0

Chlorinated Hydrocarbons : Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018

Vinyl Chloride	N.D.	N.D.	0.01	5	20
Dichloromethane	N.D.	N.D.	0.01	1,000	20
1,1-Dichloroethane	N.D.	N.D.	7	900	20
1,2-Dichloroethane	N.D.	N.D.	7	400	20
1,1-Dichloroethene	N.D.	N.D.	0.01	10	20
1,2-Dichloroethene (cis + trans)	N.D.	N.D.	0.01	20	20
Dichloropropanes	N.D.	N.D.	0.8	80	20
Trichloromethane (Chloroform)	N.D.	N.D.	6	400	20
1,1,1-Trichloroethane	N.D.	N.D.	0.01	300	20
1,1,2-Trichloroethane	N.D.	N.D.	0.01	130	20
Trichloroethene	N.D.	N.D.	24	500	20
Tetrachloromethane	N.D.	N.D.	0.01	10	20
Tetrachloroethene	N.D.	N.D.	0.01	40	20
Chlorobenzenes (total of 6)	N.D.	N.D.	-	-	20
Monochlorobenzene	N.D.	N.D.	7	180	20
Dichlorobenzenes (total)	N.D.	N.D.	3	50	20

STATS

TEST RESULTS FOR WATER (in ug/L unless otherwise specified):

Sample ID / Monitoring Well	TD 2101	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR	
Static Water Table Depth (m-TOC)	2.70	-	-	-	-	
pH value	7.2	-	-	-	-	
@ Temperature (deg. C)	21.9	-	-	-	-	APHA 4500-H+(B)

Chlorinated Hydrocarbons : Semi-Volatile Organic Compounds (SVOC's) by USEPA 3510C:1996 & USEPA 8270E:2018

Trichlorobenzenes (total)	N.D.	N.D.	0.01	10	1.0
Tetrachlorobenzenes (total)	N.D.	N.D.	0.01	2.5	2.0
Pentachlorobenzenes	N.D.	N.D.	0.003	1	1.0
Hexachlorobenzenes	N.D.	N.D.	0.00009	0.5	1.0
Chlorophenols (total of 5)	N.D.	N.D.	-	-	3.0
Monochlorophenols (total)	N.D.	N.D.	0.30	100	2.0
Dichlorophenols (total)	N.D.	N.D.	0.20	30	3.0
Trichlorophenols (total)	N.D.	N.D.	0.03	10	1.0
Tetrachlorophenols (total)	N.D.	N.D.	0.01	10	3.0
Pentachlorophenol	N.D.	N.D.	0.04	3	4.0
Chloronaphthalene	N.D.	N.D.	-	6	2.0
Monochloroanilines	N.D.	N.D.	-	30	2.0
Polychlorobiphenyls (total)	N.D.	N.D.	0.01 (d)	0.01	1.0

Pesticides : Semi-Volatile Organic Compounds (SVOC's) by USEPA 3510C:1996 & USEPA 8270E:2018

sum DDT/DDD/DDE	N.D.	N.D.	0.000004	0.01	2.0
DDT	N.D.	N.D.	-	-	2.0
DDE	N.D.	N.D.	-	-	1.0
DDD	N.D.	N.D.	-	-	1.0
sum aldrin, dieldrin, endrin	N.D.	N.D.	-	0.1	1.0
Aldrin	N.D.	N.D.	0.000009	-	1.0
Dieldrin	N.D.	N.D.	0.0001	-	1.0
Endrin	N.D.	N.D.	0.00004	-	1.0
sum HCH	N.D.	N.D.	0.05	1	1.0
a-HCH	N.D.	N.D.	0.033	-	1.0
b-HCH	N.D.	N.D.	0.008	-	1.0
g-HCH	N.D.	N.D.	0.009	-	1.0
d-HCH	N.D.	N.D.	-	-	1.0
Atrazine	N.D.	N.D.	0.029	150	1.0
Carbaryl	N.D.	N.D.	0.002	50	4.0
Carbofuran	N.D.	N.D.	0.009	100	4.0
Chlordane	N.D.	N.D.	0.00002	0.2	1.0
Endosulfan	N.D.	N.D.	0.0002	5	1.0
Heptachlor	N.D.	N.D.	0.000005	0.3	1.0
Heptachlor Epoxide	N.D.	N.D.	0.000005	3	1.0

STATS

TEST RESULTS FOR WATER (in ug/L unless otherwise specified):

Sample ID / Monitoring Well	TD 2101	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR	
Static Water Table Depth (m-TOC)	2.70	-			-	
pH value	7.2	-	-	-	-	APHA 4500-H$^+$(B)
@ Temperature (deg. C)	21.9	-	-	-	-	

Other Pollutants : Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018

Cyclohexanone	N.D.	N.D.	0.5	15,000	120
Tetrahydrofuran	N.D.	N.D.	0.5	300	40
Tetrahydrothiophene	N.D.	N.D.	0.5	5000	40
Tribromomethane (Bromoform)	N.D.	N.D.	-	630	20

Other Pollutants : Semi-Volatile Organic Compounds (SVOC's) by USEPA 3510C:1996 & USEPA 8270E:2018

Phthalates (total)	N.D.	N.D.	0.5	5	2.0
Pyridine	N.D.	N.D.	0.5	30	2.0
MCPA	N.D.	N.D.	-	50	1.0

Other Pollutants : Total Petroleum Hydrocarbons (TPH) with reference to US EPA Method 8015C:2007

C6 - C9	N.D.	N.D.	-	-	20
C10 - C14	N.D.	N.D.	-	-	50
C15 - C28	138	N.D.	-	-	50
C29 - C36	N.D.	N.D.	-	-	50
C10 - C36	N.D.	N.D.	-	-	150
C6 - C36 (Total)	N.D.	N.D.	50**	600**	170

(**Dutch Standard for mineral oil)

Surrogate Recovery by USEPA 8260D:2018

p-Bromofluorobenzene (%)	82.0	100
1,2-Dichloroethane-d4 (%)	85.0	97.0
Toluene-d8 (%)	115	94.0

Surrogate Recovery by USEPA 8270E:2018

Benzene-d5, nitro- (%)	111	121
1,1'-biphenyl,2-fluoro (%)	92.6	101
p-Terphenyl-d14 (%)	94.1	99.4
Phenol, 2-fluoro (%)	109	119
Phenol-d5 (%)	110	118
Phenol, 2,4,6-Tribromo (%)	115	127

Note:

1. APHA is a standard method for Determination of Water and Waste Water (APHA 23rd Edition, 2017).
2. LOR = Limit of Reporting. Detection Limit is based on the highest detection limit obtained from the individual compound.
3. "ND" = Not detected. The data reported is less than the LOR.

CHAIN OF CUSTODY FORM

CLIENT : Ryobi U
CONTACT :
ADDRESS :
PROJECT No. :
SITE : Sungei Kadut
QUOTATION / JOB REQUEST / PO No. :
SEND REPORT TO : Adrian
REPORT NEEDED BY (DATE) :
COMMENT / SPECIAL INSTRUCTION :
STORAGE / DISPOSAL :

FOR LAB USE
Reg. No.:

S/N	SAMPLE ID / LOCATION	SAMPLING DEPTH (m)	MATRIX* (Water/Gas/Sludge/Sediment)	DATE	TIME (HRS)	TOTAL NOs OF CONTAINERS#	STORAGE CONDITION**	ANALYSIS PARAMETER (Enter "X" below to indicate Request): FVU EBS	VOCs / BTEX							REMARKS / OBSERVATIO
1	ID / 3045 / EBS	0.5 – 0.7	Soil	16/09/22												
2		1.5 – 1.7														
3		3.0 – 3.2														
4		4.5 – 4.7														
5		5.8 – 6.0														
6																
7	~~ID / 2097~~	~~0.5 – 0.7~~														
8		~~1.5 – 1.7~~														
9		~~3.0 – 3.2~~														
10		~~4.5 – 4.7~~														
11		~~5.8 – 6.0~~														
12																
13	EB 2	–	Water	16/09/22				✓								
14	TB 2	–	"	"					✓							
15																
16																
17																
18																
19																
20																

26/9

RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME	RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME	SHIPMENT BY COURIER:
Name: SAMY	18/09/22	Name: [illegible]	18/09/22	Name:		Name:		Courier Co. / Carrier Name:
Sign: [illegible]	0915 hrs	Sign: [illegible]	09:15 hrs	Sign:	hrs	Sign:	hrs	Consignment Note / Airway B
Company: STATS		Company: STATS ALS		Company:		Company:		

* = For Water sample: Please indicate FW (Fresh Water), SW (Seawater), BW (Ballast Water), DW (Drinking Water), GW (Ground water), WW (Wastewater)

Type of Sampling Bottles: G = Glass; P = Plastic; T = Tube; V = VOC vial, S = Sterile bottle; B = Bag.

** Storage Condition: C = Refrigerate at 4 °C; R = Room Temperature; P = Preserved as per Lab's instruction.

CHAIN OF CUSTODY FORM

CLIENT : Rybsi LT
CONTACT :
ADDRESS :
PROJECT No. :
SITE : Sungei Ladut
QUOTATION / JOB REQUEST / PO No. :
SEND REPORT TO : Adrian
REPORT NEEDED BY (DATE) :
COMMENT / SPECIAL INSTRUCTION :
STORAGE / DISPOSAL :

FOR LAB USE
Reg. No.:

S/N	SAMPLE ID / LOCATION	SAMPLING DEPTH (m)	MATRIX* (Water/Soil/Sand/Sludge/Sediment)	DATE	TIME (HRS)	TOTAL NOs OF CONTAINERS#	STORAGE CONDITION**	ANALYSIS PARAMETER (Enter "x" below to indicate Request): Full BBS	Voc / BTEX							REMARKS / OBSERVATION
1	ID / 3043	0.5 – 0.7	Soil	14/09/22												
2		1.5 – 1.7														
3		3.0 – 3.2														
4		4.5 – 4.7														
5		5.8 – 6.0														
6																
7	ID / 3044 *	0.5 – 0.7														
8		1.5 – 1.7														
9		3.0 – 3.2														
10		4.5 – 4.7														
11		5.8 – 6.0														
12																
13	QC	–														
14																
15																
16	EB /	–	water	14/09/22			✓									
17	TB /	–	"	"				✓								
18																
19																
20																

RELINQUISHED BY:	DATE / TIME
Name: SAMY	18/09/22
Sign:	0925 hrs
Company: STATS	

RECEIVED BY:	DATE / TIME
Name:	18/09/22
Sign:	09:15 hrs
Company:	

RELINQUISHED BY:	DATE / TIME
Name:	
Sign:	hrs
Company:	

RECEIVED BY:	DATE / TIME
Name:	
Sign:	hrs
Company:	

SHIPMENT BY COURIER:
Courier Co. / Carrier Name:
Consignment Note / Airway Bill:

* = For Water sample: Please indicate FW (Fresh Water), SW (Seawater), BW (Ballast Water), DW (Drinking Water), GW (Ground water), WW (Wastewater)

Type of Sampling Bottles: G = Glass; P = Plastic; T = Tube; V = VOC vial, S = Sterlled bottle; B = Bag.

** Storage Condition: C = Refrigerate at 4 °C; R = Room Temperature; P = Preserved as per Lab's instruction.

CHAIN OF CUSTODY FORM

CLIENT :
CONTACT :
ADDRESS : Sungei Kadut
PROJECT No. :
SITE :
QUOTATION / JOB REQUEST / PO No. :
SEND REPORT TO : Adrian
REPORT NEEDED BY (DATE) :
COMMENT / SPECIAL INSTRUCTION :
STORAGE / DISPOSAL :

ANALYSIS PARAMETER (Enter "x" below to indicate Request)

FOR LAB USE
Reg. No.:

S/N	SAMPLE ID / LOCATION	SAMPING DEPTH (m)	MATRIX*	DATE	TIME (HRS)	TOTAL NOs OF CONTAINERS# / SAMPLING MEDIA$	STORAGE CONDITION**	FULL EBS	VOC/BTEX							REMARKS / OBSERVATION
1	MW-TD/2100/EBS	2.0	Water	24/9/22				/								
2																
3	EB 4															
4	TB 6															
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

RELINQUISHED BY:	DATE / TIME
Name: Adrian	24/9/22
Sign:	
Company: SATS	1730 hrs

RECEIVED BY:	DATE / TIME
Name:	26/9/22
Sign:	
Company: SATS	1730 hrs

RELINQUISHED BY:	DATE / TIME
Name:	
Sign:	
Company:	hrs

RECEIVED BY:	DATE / TIME
Name:	
Sign:	
Company:	hrs

SHIPMENT BY COURIER:
Courier Co. / Carrier Name:
Consignment Note / Airway Bill

* = For Water sample: Please indicate FW (Fresh Water), SW (Seawater), BW (Ballast Water), DW (Drinking Water), GW (Ground water), WW (Wastewater)
# = Type of Sampling Bottles: G = Glass; P = Plastic; T = Tube; V = VOC vial; S = Sterlied bottle; B = Bag
** = Storage Condition: C = Refrigerate at 4 oC; R = Room Temperature; P = Preserved as per Lab's instruction
$ Type of Sampling Media: ST = Sorbent Tube; IM = Impinger solution; F = Filter; RT = Resin Trap; AP = Agar Plate; W = Wipe Sample; Others (PUF, etc. - please specify)

CHAIN OF CUSTODY FORM

Page ___

CLIENT : Rabi LT
CONTACT :
ADDRESS :
PROJECT No. :
SITE : Sungei Kadut
QUOTATION / JOB REQUEST / PO No. :
SEND REPORT TO : Adrian
REPORT NEEDED BY (DATE) :
COMMENT / SPECIAL INSTRUCTION :
STORAGE / DISPOSAL :

FOR LAB USE
Reg. No.:

ANALYSIS PARAMETER (Enter "x" below to indicate Request)

S/N	SAMPLE ID / LOCATION	SAMPLING DEPTH (m)	MATRIX* (Water/Soil/Sand/Sludge/Sediment)	DATE	TIME (HRS)	TOTAL NOs OF CONTAINERS#	STORAGE CONDITION**	Full EBS	VOCs / BTEX							REMARKS / OBSERVATI
1	TP1 2100/EBS	0.5 – 0.7	Soil	20/09/22												
2		1.5 – 1.7														
3		3.0 – 3.2														
4		4.5 – 4.7														
5		5.8 – 6.0														
6																
7	EB 3	–	Water	20/09/22				✓								
8	TB 3	–	"	"					✓							
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

RELINQUISHED BY:	DATE / TIME
Name: K Gokulanathan	23/9/22
Sign:	
Company: Stat	10/47 hrs

RECEIVED BY:	DATE / TIME
Name: Eddie	23/9/22
Sign:	
Company: STATS	10:47 hrs

RELINQUISHED BY:	DATE / TIME
Name:	
Sign:	
Company:	hrs

RECEIVED BY:	DATE / TIME
Name:	
Sign:	
Company:	hrs

SHIPMENT BY COURIER:
Courier Co. / Carrier Name
Consignment Note / Airway

* = For Water sample: Please indicate FW (Fresh Water), SW (Seawater), BW (Ballast Water), DW (Drinking Water), GW (Ground water), WW (Wastewater)

Type of Sampling Bottles: G = Glass; P = Plastic; T = Tube; V = VOC vial, S = Sterilled bottle; B = Bag.

** Storage Condition: C = Refrigerate at 4 °C; R = Room Temperature; P = Preserved as per Lab's instruction.

CHAIN OF CUSTODY FORM

CLIENT	Ryobi-G
CONTACT	
ADDRESS	Sungai Kadut
PROJECT No.	
SITE	
QUOTATION / JOB REQUEST / PO No.	
SEND REPORT TO	Adrian
REPORT NEEDED BY (DATE)	
COMMENT / SPECIAL INSTRUCTION	
STORAGE / DISPOSAL	

ANALYSIS PARAMETER (Enter "x" below to indicate Request)

FOR LAB USE: Reg. No.:

S/N	SAMPLE ID / LOCATION	SAMPING DEPTH (m)	MATRIX*	DATE	TIME (HRS)	TOTAL NOs OF CONTAINERS# / SAMPLING MEDIA$	STORAGE CONDITION**	FULL EBS	VOC / BTEX							REMARKS / OBSERVATION
1	TD/2097/EBS	0.5-0.7	So.	16/9/22												
2		1.5-1.7														
3		3.0-3.2														
4		4.5-4.7														
5		5.8-6.0														
6																
7	C&C															
8																
9	RB 2															
10	TB 2															
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME	RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME	SHIPMENT BY COURIER:
Name: Adrian	16/9/22	Name:	16/9/22	Name:		Name:		Courier Co. / Carrier Name:
Sign:		Sign:		Sign:		Sign:		
Company: STATS	1730 hrs	Company: STATS	1730 hrs	Company:	hrs	Company:	hrs	Consignment Note / Airway Bill

* = For Water sample: Please indicate FW (Fresh Water), SW (Seawater), BW (Ballast Water), DW (Drinking Water), GW (Ground water), WW (Wastewater)

\# of Sampling Bottles: G = Glass; P = Plastic; T = Tube; V = VOC vial; S = Sterlled bottle; B = Bag

** Storage Condition: C = Refrigerate at 4 oC; R = Room Temperature; P = Preserved as per Lab's instruction

$ Type of Sampling Media: ST = Sorbent Tube; IM = Impinger solution; F = Filter; RT = Resin Trap; AP = Agar Plate; W = Wipe Sample; Others (PUF, etc. - please specify)

CHAIN OF CUSTODY FORM

CLIENT : Rybi UT
CONTACT :
ADDRESS :
PROJECT No. :
SITE : Sungei Kadut
QUOTATION / JOB REQUEST / PO No. :
SEND REPORT TO : Adrian
REPORT NEEDED BY (DATE) :
COMMENT / SPECIAL INSTRUCTION :
STORAGE / DISPOSAL :

FOR LAB USE: Reg. No.:

S/N	SAMPLE ID / LOCATION	SAMPLING DEPTH (m)	MATRIX* (Water/Soil/Sand/Sludge/Sediment)	DATE	TIME (HRS)	TOTAL NOs OF CONTAINERS#	STORAGE CONDITION**	ANALYSIS PARAMETER (Enter "x" below to indicate Request): Full EIBS	VOCs BTEX							REMARKS / OBSERVATIO
1	TD 1 2096	0.5-0.7	Soil	15/09/22												
2		1.5-1.7														
3		3.0-3.2														
4		4.5-4.7														
5		5.8-6.0														
6																
7																
8	EB 1	-	Water	15/09/22				✓								
9	TB 1	-	"	"					✓							
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME	RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME	SHIPMENT BY COURIER:
Name: SAMY	18/09/22	Name: Rawn	18/09/22	Name:		Name:		Courier Co. / Carrier Name:
Sign:		Sign:		Sign:		Sign:		
Company: STATS	0915 hrs	Company: Stats Asia	09:15 hrs	Company:	hrs	Company:	hrs	Consignment Note / Airway B

* = For Water sample: Please indicate FW (Fresh Water), SW (Seawater), BW (Ballast Water), DW (Drinking Water), GW (Ground water), WW (Wastewater)

Type of Sampling Bottles: G = Glass; P = Plastic; T = Tube; V = VOC vial, S = Sterlied bottle; B = Bag.

** Storage Condition: C = Refrigerate at 4 °C; R = Room Temperature; P = Preserved as per Lab's instruction.

CHAIN OF CUSTODY FORM

CLIENT	RYOBI - GT
CONTACT	
ADDRESS	
PROJECT No.	
SITE	Sungei Loaclut
QUOTATION / JOB REQUEST / PO No.	
SEND REPORT TO	Adrian
REPORT NEEDED BY (DATE)	
COMMENT / SPECIAL INSTRUCTION	
STORAGE / DISPOSAL	

FOR LAB USE: Reg. No.:

S/N	SAMPLE ID / LOCATION	SAMPLING DEPTH (m)	MATRIX* (Water/Ballast/Sand/Sludge/Sediment)	DATE	TIME (HRS)	TOTAL NOs OF CONTAINERS#	STORAGE CONDITION**	ANALYSIS PARAMETER (Enter "x" below to indicate Request): FULL EBS	VOCs / BTEX							REMARKS / OBSEI
1	TD / 2101	0.5 – 0.7	Soil	26/10/22				✓								
2		1.5 – 1.7														
3		3.0 – 3.2						✓								
4		4.5 – 4.7						✓								
5		5.8 – 6.0														
6																
7	~~TD / 1067~~	~~0.5 – 0.7~~														
8		~~1.5 – 1.7~~														
9		~~3.0 – 3.2~~														
10		~~4.5 – 4.7~~														
11		~~5.8 – 6.0~~														
12																
13	~~QC~~	-														
14																
15	EB	–	water	26/10/22				✓								
16	TB	–	"	"					✓							
17																
18																
19																
20																

RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME	RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME	SHIPMENT BY COU
Name: R. Lopi	31.10.22	Name: GARY	1700	Name:		Name:		Courier Co. / Carrier
Sign:		Sign:		Sign:		Sign:		
Company: PTAZB	5.00 hrs	Company:	31/10/2022 hrs	Company:	hrs	Company:	hrs	Consignment Note /

* = For Water sample: Please Indicate FW (Fresh Water), SW (Seawater), BW (Ballast Water), DW (Drinking Water), GW (Ground water), WW (Wastewater)

Type of Sampling Bottles: G = Glass; P = Plastic; T = Tube; V = VOC vial, S = Sterilled bottle; B = Bag.

** Storage Condition: C = Refrigerate at 4 °C; R = Room Temperature; P = Preserved as per Lab's instruction.

CHAIN OF CUSTODY FORM

CLIENT	Rycb.
CONTACT	
ADDRESS	Sungei, Kadut TD/2101/ESS
PROJECT No.	
SITE	
QUOTATION / JOB REQUEST / PO No.	
SEND REPORT TO	Adrian
REPORT NEEDED BY (DATE)	
COMMENT / SPECIAL INSTRUCTION	
STORAGE / DISPOSAL	

ANALYSIS PARAMETER (Enter "x" below to indicate Request)

FOR LAB USE: Reg. No.:

S/N	SAMPLE ID / LOCATION	SAMPLING DEPTH (m)	MATRIX* (Water/Soil/Sand/Sludge/Sediment)	DATE	TIME (HRS)	TOTAL NOs OF CONTAINERS#	STORAGE CONDITION**	FULL ESS	SVOC / BTEX							REMARKS / OBSEI
1	TD/2101/ESS	2.70	Water	7/11/22	3:14											
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME	RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME	SHIPMENT BY COU
Name: Adrian	7/11/22	Name: Ashley	7/11/22	Name:		Name:		Courier Co. / Carrier
Sign:		Sign:		Sign:		Sign:		
Company: STATS	1759 hrs	Company: STATS	1750 hrs	Company:	hrs	Company:	hrs	Consignment Note /

* = For Water sample: Please indicate FW (Fresh Water), SW (Seawater), BW (Ballast Water), DW (Drinking Water), GW (Ground water), WW (Wastewater)

Type of Sampling Bottles: G = Glass; P = Plastic; T = Tube; V = VOC vial, S = Sterlled bottle; B = Bag.

** Storage Condition: C = Refrigerate at 4 °C; R = Room Temperature; P = Preserved as per Lab's instruction.

Appendix E – Summary of RPD for Duplicate Samples

Summary of Relative Percent Difference (RPD) for Duplicate Sample

Parameter	Replicate 1	Replicate 2	%RPD
Soil			
Arsenic	4.68	4.53	3.3
Barium	3.63	3.48	4.2
Chromium	19.47	18.86	3.2
Copper	7.74	7.59	2.0
Zinc	14.38	13.80	4.1
% moisture	26.36	30.03	13.0
pH	8.00	7.84	2.0

QC1 duplicate sample of TD/3044/EBS,S1

Appendix F – Work Plan

The Work Plan is a document that details how the ESA Consultant proposes to carry out the ESA.

a. Overall EBS objectives

The purpose of this study is to conduct an Environmental Site Assessment (ESA). The study will be conducted in accordance to SLA's 2018 SLA ESA Guidelines. This study will serve as a baseline for an exit /entry of the site or an extension of lease. If contamination is found, the Consultant will recommend necessary remedial measures such as a risk-based assessment to ensure health and safety compliance. This proposal is based on the site area for the prescribed numbers of boreholes/monitoring wells as detailed under Table 1 of the 2018 SLA ESA Guideline.

b. Specific field investigation objectives (after preliminary investigation)

The field investigation objective is to establish the level of toxic contamination, if any in the soil by testing the concentrations of selected chemicals of concern in samples collected from the site to establish the baseline conditions beneath the property and also assesses any contamination of the soil that may have resulted from historical land use including site development.

c. Methodology and equipment used

Number of Boreholes

5 boreholes is required for Sungei Kadut. (5 out of 5 boreholes is completed upon compiling this report)

Soil Sampling

Soil samples will be collected at the following intervals:

- One near surface top layer soil sample (0.3-0.5m);
- one soil sample per every stratum (in addition to (a), particularly including the upper boundary of any layers of low relative permeability (eg. clay), since there is typically a higher potential for contaminants to accumulate there;
- one soil sample from the saturated zone near the boundary with the unsaturated (ie. the vadose zone – where the water table is first encountered), since there is a potential for contaminants which are insoluble in water (eg. phase separated hydrocarbons) to accumulate there;

For reclaimed lands, at least 40% of total boreholes should be drilled down to 2 m below the original soil to provide a better characterisation of the fill material and underlying original soil. All soil samples will be analysed for the parameters detailed under the most recent version of the Dutch Environmental Guidelines Soil Remediation Circular (Dutch Guidelines). Based on previous site history and the site conceptual model developed, the Consultant will propose the appropriate parameters for analysis.

The borings will be advanced using either:

I. Hand auger to the water table and the borehole begins to collapse or where soil resistance to hand auguring becomes too difficult. Then hydraulic rotary methods will be used. A small 4hp rotary drive will be used to advance a spiral auger to the soil sampling depths. Soil samples will be collected in using a 40mm diameter thin wall tubes and transferred to laboratory supplied

wide mouth glass containers and stored on site in cooler boxes prior to transportation to the laboratory. The water well standpipe of 40mm diameter will be installed in the borehole.

II. Dry drilling techniques either by spiral auger or Geoprobe drilling. Soil samples will be collected in 50mm diameter PVC liner tubes and transferred to laboratory supplied wide mouth glass containers and stored on site in cooler boxes prior to transportation to the laboratory. The water well standpipes will be completed in a minimum 40 mm diameter borehole. All drilling is completed without the use of fluids.

Drilling and soil sampling implement such as steel casings, bits and thin wall tubes will be decontaminated prior to their insertion into the boreholes. The log of the boring and soil sample descriptions will be following procedures and formats specified in BS 5930: 1981.

Monitoring Well Construction

The groundwater standpipes will consist of 40mm diameter PVC and will be installed in the borehole to a minimum depth of 2m to 3m below the static water level. The well assembly will consist of 3m to 4m of slotted PVC pipe and solid riser extending to the surface. The annular area around the slotted standpipe will be back filled with graded sand to act as a filter. Above the filter pack, a 0.5m to 1m thick bentonite clay seal will be placed to keep surface water from impacted the groundwater in the well.

Decontamination Procedures

All sampling equipment will be thoroughly cleaned before use and between samples. This includes the spatulas, trowels, scoops and any other equipment that is used. All cleaning will be performed on a clean surface, such as a plastic sheet.

The cleaning procedures for all sampling equipment will involve:

- Washing in tap water removing gross contamination
- Washing in DECON 90 solutions (phosphate-free laboratory detergent)
- Rinsing copiously with tap water
- Rinsing with de-ionised water

Field blanks will be prepared by running distilled water over the cleaned sampling tools and collecting the water in clean jars, filling the jars to capacity. The field engineer will wear clean rubber gloves when handling soil samples and cleaned equipment.

Each soil sample is to be placed in a pre-washed or new jar with a tight-fitting screw top lid. The pre-washing will be performed in the laboratory using the procedure outlined above. Clean aluminium foil may be used to ensure an air tight seal.

Chain-of custody Documentation

Each sample jar will be labelled with the following information:

- Job number
- Project name
- Date of sampling
- Sample Number
- Depth of sample

Chain-of custody documentation is to be completed on site. This will include the information listed above and if appropriate, the chemical analysis required for each sample. The field engineer/scientist is to sign the appropriate section of the chain-of-custody form before handing over the samples to the laboratory.

Sample Storage

All samples will be stored at approximately 4°C, or below, prior to analysis. This includes transportation and on-site storage. Where samples are to be analysed for monocyclic aromatic hydrocarbons, the samples will be placed in a sealed headspace vial, taking care to minimise the loss of volatiles.

Groundwater Sampling

After the installation of the groundwater standpipes the monitoring wells will be developed by bailing or pumping sufficient quantities of groundwater until the turbidity of the produced water can no longer be improved. The wells will then be allowed to stabilize before groundwater sampling is undertaken. Prior to the collection of groundwater samples, the static groundwater levels will be measured and the wells purged four casing volumes before sample collection or in the event of low yield wells, the well will be bailed dry and then allowed to recover before the collection of samples. Well development and purging are necessary to ensure that only representative groundwater is collected for laboratory testing. Dedicated, disposable bailers will be used for the collection of samples. Samples collected in the bailer will be transferred to laboratory supplied pre cleaned sample containers using a bottom-emptying device to minimise the loss of volatile species.

Static water levels will be measured after allowing sufficient time for the groundwater levels to reach equilibrium. These static water levels will be measured to a known reference point on the casing (usually top of casing) this reference point will be surveyed in accordance to the Singapore Grid reference for northings and eastings and above mean sea level for elevation. Groundwater elevation heads for each well location can be determined and groundwater contours drawn, which can be used to determine the groundwater flow direction.

Analytical Testing

The soil and groundwater samples will be tested in accordance to the Dutch Environmental Guidelines Soil Remediation Circular (Dutch Guidelines).

Quality Assurance/ Quality Control

The QA/QC samples will include:

- Trip blank – a trip blank ratio of one (1) trip blank per shipment;
- Equipment blank -one equipment blank per day of sampling;
- Duplicate sample – a minimum of 1 duplicate soil per 20 samples and 1 duplicate groundwater per 10 samples are to be collected.
- Field Blank – one daily field blank for projects.

d. Background information and site history

According to Historical Map of Singapore (Department of Geography, NUS), Sungei Kadut used to be filled with squatter settlements as well as several clusters of cemeteries. In the 1980s, Sungei Kadut was developed for industrial use (zoned as Business 2, which is intended for clean, light and general industries as well as warehouses, public utilities and telecommunications uses and other public installations. Special industries such as manufacture of industrial machinery, shipbuilding and repairing may be allowed in selected areas subject to evaluation by the relevant and competent authorities). According to the Urban Redevelopment Authority (URA), this land is currently used being used as drain, minor road, or back lane.

e. Breakdown of project-related tasks

Project-related tasks include:

- Site reconnaissance to determine the borehole locations and interview with tenant.
- Drilling of 5 borehole to termination depths of 6.00m below ground level (bgl)
- Submission of 15 soil samples to the laboratory for analysis exclusive of one soil duplicate in accordance to the analytical suite detailed target and intervention values detailed under the 2013 Dutch Standards.

f. EBS team organization

The following table highlights the ESA Consultant's key personnel's roles and responsibilities, selected laboratory, environmental drilling contractors and other personnel/contractors involved in the ESA.

Table 2. EBS Team

Designation/Role	**Name**	**Subject Expert**
Project Director	Donald William Folkoff	Assist to evaluate results and remediation actions (if any)
Project Manager	Tan Sin Yek / Dennis Ong	Coordinate cable detection, interview, field sampling, report preparation and ESA proposal
Drilling Contractor	SECS	Drilling and soil sampling
SAC-Singlas Accredited Laboratory	Stats Asia Pacific Pte Ltd	Laboratory testing

g. Existing/previous layout plan and description on land use

Figure 1. Site Layout Plan

The facility is located at Sungei Kadut, in the North-western part of mainland Singapore (Figure 1). 5 boreholes was drilled at the site as part of an internal investigation for the organization's study.

h. ***Schedule***

The EBS schedule can be summarized as follows:

- 1 – 3 weeks: Obtaining all underground utility plans from relevant authorities. Application will be made upon official confirmation of ESA Proposal. Confirmation of work plan.
- 1 – 2 weeks: Field work which includes soil and groundwater sampling.
- 3 – 4 weeks: Laboratory analysis of soil and groundwater samples.
- 1 week : Submission of ESA report conforming to the latest SLA ESA Guidelines.

Appendix G – NEA List of Consultants for Site Assessment/Site Remediation

Table A: List of Companies for Both Site Assessment and Site Remediation

AECOM Singapore Pte Ltd 300 Beach Road #03-00 The Concourse Singapore 199555 Tel: 6299 2466 Fax: 6299 0297	**Arcadis Pte Ltd** 1 Magazine Road #05-01 Central Mall Singapore 059567 Tel: 6239 8525 Fax: 6224 7089
Environmental Resources Management (S) Pte Ltd (ERM) 88 Market Street, #40-16 CapitaSpring Singapore, 048948 Tel: 6324 9636 Fax: 6722 0749	**EnviroSolutions & Consulting Pte Ltd** 133 Cecil Street #08-01A/01B Keck Seng Tower Singapore 069535 Tel: 6243 1174
Golder Associates Pte Ltd 18 Ah Hood Road #10-51 Hiap Hoe Building Zhong Shan Park Singapore 329983 Tel: 6546 6318 Fax: 6546 6319	**Ramboll Environ Singapore Pte Ltd** 21 Biopolis Road #06-01 Nucleos (North Tower) Singapore 138567 Tel: 6469 9918 Fax: 6369 9163
Singapore Environmental Consultancy and Solutions Pte Ltd 1 Sunview Road #08-19 Eco-Tech @ Sunview Singapore 627615 Tel: 6471 3316 Fax: 6471 3396	**TÜV SÜD PSB Pte Ltd** 15 International Business Park Singapore 609937 Tel: 6778 7777 Fax: 6779 7088
Witteveen + Bos South-East Asia Pte Ltd 2 International Business Park | The Strategy #02-01 Tower 1 Singapore 609930 Tel: 6817 2670	

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Table B: List of Companies For Site Assessment Only

ALS Technichem (S) Pte Ltd 121 Genting Lane #04-01 ALS Building Singapore 349572 Tel: 6589 0118 Fax: 6283 9689	**Analytical Laboratories (Singapore) Pte Ltd** No. 8 Kaki Bukit Place Singapore 416186 Tel: 6746 0886 Fax: 6746 3830
Asia Georesearch Agency Corporation Pte Ltd 120 Lower Delta Road #02-12 Cendex Centre Singapore 169208 Tel: 6538 0400 Fax: 6538 0422	**Astar Laboratory Pte Ltd** 27, Gul Avenue Singapore 629667 Tel: 6339 6136 Fax: 62557608
CH2M Hill 150 Beach Road Gateway West 34th Floor Singapore 189720 Tel: 6391 0350 Fax: 6299 4739	**DHI Water & Environment (S) Pte Ltd** 2 Venture Drive #18-18 Vision Exchange Singapore 608526 Tel: 6777 6330 Fax: 6777 3537
GBAD Services Pte Ltd No. 1 Bukit Batok Crescent #09-24, WCEGA Plaza Singapore 658064 Tel: 6899 5020 / 6899 5022 Fax: 6562 0630	**Modern Asia Environmental Holdings Pte. Ltd.** 23 Tuas Avenue 11 Singapore 639086 Tel: 6261 7366 Fax: 6261 8723
STATS Asia Pacific Pte Ltd 71 Toh Guan Road East #02-01/06, TCH Techcentre Singapore 608598 Tel: 6252 6686 Fax: 6252 6166	**TEMBUSU Asia Consulting Pte Ltd** 1 Commonwealth Lane #06-06, One Commonwealth Singapore 149544 Tel: 6238 4009 Fax: 6570 5254

Disclaimer
The listing of a company in any part of this document does not imply any form of endorsement or recommendation from NEA for the products or services provided by that company. The mention of any company herein is provided solely as a pointer to information that may be useful to the public. NEA does not assume any legal liability or responsibility for the accuracy, completeness, or usefulness of the materials, opinions, ideas, data, or products provided by these companies. Please also refer to our Terms of Use.

Appendix K-2

Other Available Soil and Groundwater Quality Laboratory Results

STATS ASIA PACIFIC PTE LTD
Specialist Testing and Technical Services

Website: www.statsasiapac.com
Address: 71 Toh Guan Road East, #02-01/02/06, #03-02, #05-02/03
TCH Techcentre, Singapore 608598

Co Reg No. 201716604R I GST No. 201716604R
Tel: (65) 6252 6686 I Fax: (65) 6252 6166

TEST REPORT

(This report is issued subject to the terms & conditions set out below)

Your Ref : - **Our Ref : ENV-2210662-2** **Date : 20 October 2022**

Subject	:	Analysis of soil and water samples submitted by Ryobi Geotechnique International Pte Ltd from 16-24 September 2022 and testing commenced on 26 September 2022.
Tested for	:	**Ryobi Geotechnique International Pte Ltd** 70 Sungei Kadut Loop Singapore 729511
Sample Reference	:	10 soil samples + 9 water samples were received. [Location: Sungei Kadut]
Results :	:	**Refer Page 2 to 11**

Signed for and on behalf of STATS Asia Pacific Pte Ltd

LEI ZHI PEI
DIRECTOR

Terms & conditions:
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STATS

TEST RESULTS FOR SOIL (in mg/kg unless otherwise specified):

Sample Bore Hole	TD 2096	TD 2096	TD 2096	TD 2097	TD 2097	TD 2097	TD 2100	TD 2100	TD 2100	QC	Method BLK	DUTCH	DUTCH	LOR
Sample No.	S1	S3	S4	S1	S3	S4	S1	S3	S4	-	-	(Target)	(Intervention)	-
Sample Depth m bgl	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	-	-	-	-	-
pH by BS 1377-3: 2018	8.2	6.3	5.8	8.5	6.8	6.1	7.0	4.1	4.7	8.5	-	-	-	-
Metals : by USEPA 3051A:2007 & APHA 3120B														
Arsenic (As)	13.08	20.41	2.70	19.25	17.15	N.D.	19.14	N.D.	2.19	18.84	N.D.	-	76	2.00
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	22	2.00
Barium (Ba)	11.94	21.49	N.D.	17.17	20.57	N.D.	3.79	3.04	10.23	16.83	N.D.	-	-	2.00
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	13	2.00
Chromium (Cr)	14.43	15.16	N.D.	12.07	20.98	N.D.	20.33	N.D.	N.D.	11.82	N.D.	-	-	2.00
Copper (Cu)	33.04	21.97	N.D.	22.43	5.68	N.D.	11.06	N.D.	2.37	22.14	N.D.	-	190	2.00
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	190	2.00
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	2.00
Lead (Pb)	8.97	35.07	2.23	31.87	34.20	N.D.	11.96	N.D.	12.77	31.38	N.D.	-	530	2.00
Molybdenum (Mo)	10.61	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	190	2.00
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	100	2.00
Zinc (Zn)	70.73	101.92	N.D.	53.08	19.83	N.D.	39.85	N.D.	N.D.	51.93	N.D.	-	720	2.00
Organotin compounds (as Total Sn)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	2.5	1.00
Inorganic Compound : Cyanide (CN) by APHA 4500-CN (N)														
Cyanide (total)*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	20	0.50

Total Cyanide consists of Free Cyanide, Complex Cyanide and Total Thiocyanates. In this study, the Target and Intervention values of Free Cyanide, which are the most stringent Target and Intervention values of all three Cyanide species, are applied to the concentration of Total Cyanide (i.e. Free Cyanide + Complex Cyanide + Total Thiocyanates).

Aromatic Compounds : BTEX - Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018														
Benzene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	1.1	0.1
Ethylbenzene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	110	0.1
Toluene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	32	0.1
Xylene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	17	0.2
Styrene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	86	0.1
Aromatic Compounds : Semi-Volatile Organic Compounds (SVOC's) by USEPA 8270E:2018														
Phenol	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	14	0.1
Cresols	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	13	0.2
Catechol	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	1.0
Resorcinol	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.4
Hydrochinon	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.4

STATS

TEST RESULTS FOR SOIL (in mg/kg unless otherwise specified):

Sample Bore Hole	TD 2096	TD 2096	TD 2096	TD 2097	TD 2097	TD 2097	TD 2100	TD 2100	TD 2100	QC	Method BLK	DUTCH	DUTCH	LOR
Sample No.	S1	S3	S4	S1	S3	S4	S1	S3	S4	-	-	(Target)	(Intervention)	-
Sample Depth m bgl	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	-	-	-	-	-
pH by BS 1377-3: 2018	8.2	6.3	5.8	8.5	6.8	6.1	7.0	4.1	4.7	8.5	-	-	-	-
Polynuclear Aromatic Hydrocarbon (PAH) : Semi-Volatile Organic Compounds (SVOC's) by USEPA 8270E:2018														
Naphthalene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Anthracene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Phenanthrene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Fluoranthene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Benzo(a)anthracene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Chrysene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Benzo(a)pyrene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Benzo(ghi)perylene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Benzo(k)fluoranthene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.2
Indeno(1,2,3cd)pyrene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.2
PAH (total of 10)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.2
Chlorinated Hydrocarbons : Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018														
Vinyl Chloride	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	40	0.2
Dichloromethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.1	0.1
1,1-Dichloroethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	3.9	0.1
1,2-Dichloroethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	15	0.1
1,1-Dichloroethene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	6.4	0.1
1,2-Dichloroethene (cis + trans)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.3	0.1
Dichloropropanes	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	1	0.1
Trichloromethane (Chloroform)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	2	0.1
1,1,1-Trichloroethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5.6	0.1
1,1,2-Trichloroethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	15	0.1
Trichloroethene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	10	0.1
Tetrachloromethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	2.5	0.1
Tetrachloroethene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.7	0.1
Chlorobenzenes (total of 6)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	8.8	0.1
Monochlorobenzene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.2
Dichlorobenzenes (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	15	0.1
Chlorinated Hydrocarbons : Semi-Volatile Organic Compounds (SVOC's) by USEPA 8270E:2018														
Trichlorobenzenes (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	19	0.1
Tetrachlorobenzenes (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	11	0.1
Pentachlorobenzenes	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	2.2	0.2
Hexachlorobenzenes	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	6.7	0.1
Chlorophenols (total of 5)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	2	0.1
Monochlorophenols (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.3
Dichlorophenols (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5.4	0.2
Trichlorophenols (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	22	0.3
Tetrachlorophenols (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	22	0.1
Pentachlorophenol	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	21	0.3
Chloronaphthalene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	12	0.4
Monochloroanilines	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	23	0.2
Polychlorobiphenyls (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	50	0.2
												-	1	0.1

STATS

TEST RESULTS FOR SOIL (in mg/kg unless otherwise specified):

Sample Bore Hole	TD 2096	TD 2096	TD 2096	TD 2097	TD 2097	TD 2097	TD 2100	TD 2100	TD 2100	QC	Method BLK	DUTCH	DUTCH	LOR
Sample No.	S1	S3	S4	S1	S3	S4	S1	S3	S4	-	-	(Target)	(Intervention)	-
Sample Depth m bgl	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	-	-	-	-	-
pH by BS 1377-3: 2018	8.2	6.3	5.8	8.5	6.8	6.1	7.0	4.1	4.7	8.5	-	-	-	-

Pesticides : Semi-Volatile Organic Compounds (SVOC's) by USEPA 8270E:2018

sum DDT/DDD/DDE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.2
DDT	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	1.7	0.2
DDE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	2.3	0.1
DDD	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	34	0.1
sum aldrin, dieldrin, endrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	4	0.1
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.32	0.1
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Endrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
sum HCH	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
a-HCH	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	17	0.1
b-HCH	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	1.6	0.1
g-HCH	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	1.2	0.1
d-HCH	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Atrazine	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.71	0.1
Carbaryl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.45	0.4
Carbofuran	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.017	0.4
Chlordane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	4	0.1
Endosulfan	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	4	0.1
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	4	0.1
Heptachlor Epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	4	0.1

Other Pollutants : Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018

Cyclohexanone	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	150	0.6
Tetrahydrofuran	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	7	0.2
Tetrahydrothiophene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	8.8	0.2
Tribromomethane (Bromoform)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	75	0.1

Other Pollutants : Semi-Volatile Organic Compounds (SVOC's) by USEPA 8270E:2018

Dimethyl phthalate (DMP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	82	0.2
Diethyl phthalate (DEP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	53	0.2
Di-isobutylphthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	17	0.2
Dibutylphthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	36	0.2
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	48	0.2
Dihexylphthalate (DHP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	220	0.2
Di(2-ethylhexyl)phthalate (DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	60	0.2
Phthalates (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.2
Pyridine	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	11	0.2
MCPA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	4	1.0

STATS

TEST RESULTS FOR SOIL (in mg/kg unless otherwise specified):

Sample Bore Hole	TD 2096	TD 2096	TD 2096	TD 2097	TD 2097	TD 2097	TD 2100	TD 2100	TD 2100	QC	Method BLK	DUTCH	DUTCH	LOR
Sample No.	S1	S3	S4	S1	S3	S4	S1	S3	S4	-	-	(Target)	(Intervention)	-
Sample Depth m bgl	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	-	-	-	-	-
pH by BS 1377-3: 2018	8.2	6.3	5.8	8.5	6.8	6.1	7.0	4.1	4.7	8.5	-	-	-	-

Other Pollutants : Asbestos by ISO 22262-1:2012 & AS 4964:2004

Asbestos	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	100	100

Other Pollutants : Total Petroleum Hydrocarbons (TPH) with reference to US EPA Method 8015C:2007

C6 - C9	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	10.0
C10 - C14	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.			10.0
C15 - C28	N.D.	N.D.	14.6	31.7	N.D.	26.0	N.D.	N.D.	N.D.	30.8	N.D.			10.0
C29 - C36	N.D.	N.D.	25.0	14.8	N.D.	21.9	N.D.	N.D.	N.D.	14.8	N.D.	-	-	10.0
C10-C36	N.D.	N.D.	39.6	46.5	N.D.	48.0	N.D.	N.D.	N.D.	45.6	N.D.	-	-	30.0
C6 - C36 (Total)	N.D.	N.D.	N.D.	46.5	N.D.	48.0	N.D.	N.D.	N.D.	45.6	N.D.	-	5,000**	40.0

(**Dutch Standard for mineral oil)

Miscellaneous : Moisture Content and Organic Matter (LOI) by BS 1377-2:1990 & BS 1377-3:2018

Moisture Content, %	27.10	18.12	30.65	12.74	31.96	27.18	41.70	19.17	18.96	12.61	-	-	-	0.01
Organic Matter (LOI), %	1.50	2.61	5.66	3.18	7.61	2.91	6.33	2.64	2.39	3.26	-	-	-	0.03

Surrogate Recovery by USEPA 8260D:2018

p-Bromofluorobenzene (%)	125	108	126	127	121	108	105	100	101	108	100
1,2-Dichloroethane-d4 (%)	89.0	74.0	113	89.0	98.0	78.0	73.0	82.0	88.0	81.0	97.0
Toluene-d8 (%)	112	117	120	94.0	122	107	98.0	103	97.0	111	94.0

Surrogate Recovery by USEPA 8270E:2018

Benzene-d5, nitro- (%)	97.4	92.4	90.8	83.1	90.3	91.3	84.9	88.2	84.6	90.3	97.3
1,1'-biphenyl,2-fluoro (%)	82.7	77.3	76.3	70.2	78.7	75.6	73.5	74.6	73.6	76.9	84.2
p-Terphenyl-d14 (%)	86.5	82.8	78.4	74.1	87.8	82.3	81.8	81.0	79.7	86.0	85.6
Phenol, 2-fluoro (%)	106	98.3	96.8	88.4	99.1	95.9	92.0	94.6	92.5	97.0	102
Phenol-d5 (%)	108	101	99.7	91.0	102	98.8	94.4	97.4	95.2	100	104
Phenol, 2,4,6-Tribromo (%)	79.7	73.0	73.1	66.0	75.7	71.3	68.3	69.6	68.4	72.6	84.1

Note:

1. APHA is a standard method for Determination of Water and Waste Water (APHA 23rd Edition, 2017).
2. LOR = Limit of Reporting. Detection Limit is based on the highest detection limit obtained from the individual compound.
3. "ND" = Not detected. The data reported is less than the LOR.
4. * Test was sub-contracted to external laboratory.

STATS

TEST RESULTS FOR WATER (in ug/L unless otherwise specified):

Sample ID / Monitoring Well	MW-TD/2100	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR	
Static Water Table Depth (m-TOC)	2.00	-	-	-	-	
pH value	4.5	-	-	-	-	APHA 4500-H$^+$(B)
@ Temperature (deg. C)	23.6	-	-	-	-	

Metals by APHA 3125B

Arsenic (As)	13.8	N.D.	10	60	2.0
Antimony (Sb)	N.D.	N.D.	-	20	2.0
Barium (Ba)	33.2	N.D.	50	625	2.0
Cadmium (Cd)	N.D.	N.D.	0.4	6	0.25
Chromium (Cr)	4.0	N.D.	1	30	0.5
Cobalt (Co)	N.D.	N.D.	20	100	2.0
Copper (Cu)	5.9	N.D.	15	75	2.0
Mercury (Hg)	N.D.	N.D.	0.05	0.3	0.1
Lead (Pb)	N.D.	N.D.	15	75	2.0
Molybdenum (Mo)	N.D.	N.D.	5	300	2.0
Nickel (Ni)	2.6	N.D.	15	75	2.0
Zinc (Zn)	19.7	N.D.	65	800	2.0
Organotin compounds (as Total Sn)	0.7	N.D.	-	0.7	0.5

Miscellaneous Analyses by APHA

BOD (mg/L)	9	N.D.	-	-	2.0	APHA 5210B
COD (mgO_2/L)	N.D.	N.D.	-	-	50	HACH 8000
TOC (mg/L)	24.3	N.D.	-	-	1.0	APHA 5310B
Fluoride (mg/L)	N.D.	N.D.	-	-	1.0	APHA 4110B
Chloride (mg/L)	58.5	N.D.	-	-	1.0	APHA 4110B
Bromide (mg/L)	1.3	N.D.	-	-	1.0	APHA 4110B
Phosphate (mg/L)	N.D.	N.D.	-	-	1.0	APHA 4110B
Sulphate (mg/L)	159.7	N.D.	-	-	1.0	APHA 4110B
Total Ammoniacal Nitrogen (mg/L)	3.07	N.D.	-	-	0.01	APHA 4500-NH_3

Inorganic Compound : Cyanide (CN) by APHA 4500-CN (N)

Cyanide (total)*	N.D.	N.D.	5	1,500	20

Total Cyanide consists of Free Cyanide, Complex Cyanide and Total Thiocyanates. In this study, the Target and Intervention values of Free Cyanide which are the most stringent. Target and Intervention values of all three Cyanide species, are applied to the concentration of Total Cyanide (i.e. Free Cyanide + Complex Cyanide + Total Thiocyanates).

Aromatic Compounds : BTEX - Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018

Benzene	N.D.	N.D.	0.2	30	20
Ethylbenzene	N.D.	N.D.	4	150	20
Toluene	N.D.	N.D.	7	1,000	20
Xylene	N.D.	N.D.	0.2	70	40
Styrene	N.D.	N.D.	0.6	300	20

STATS

TEST RESULTS FOR WATER (in ug/L unless otherwise specified):

Sample ID / Monitoring Well	MW-TD/2100	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR	
Static Water Table Depth (m-TOC)	2.00	-	-	-	-	
pH value	4.5	-	-	-	-	APHA 4500-H+(B)
@ Temperature (deg. C)	23.6	-	-	-	-	

Aromatic Compounds : Semi-Volatile Organic Compounds (SVOC's) by USEPA 3510C:1996 & USEPA 8270E:2018

Phenol	N.D.	N.D.	0.2	2,000	1.0
Cresols	N.D.	N.D.	0.2	200	2.0
Catechol	N.D.	N.D.	0.2	1,250	10
Resorcinol	N.D.	N.D.	0.2	600	4.0
Hydrochinon	N.D.	N.D.	0.2	800	4.0

Polynuclear Aromatic Hydrocarbon (PAH) : Semi-Volatile Organic Compounds (SVOC's) by USEPA 3510C:1996 & USEPA 8270E:2018

Naphthalene	1.0	N.D.	0.01	70	1.0
Anthracene	N.D.	N.D.	0.007	5	1.0
Phenanthrene	N.D.	N.D.	0.003	5	1.0
Fluoranthene	N.D.	N.D.	0.003	1	1.0
Benzo(a)anthracene	N.D.	N.D.	0.0001	0.5	1.0
Chrysene	N.D.	N.D.	0.003	0.2	1.0
Benzo(a)pyrene	N.D.	N.D.	0.001	0.05	2.0
Benzo(ghi)perylene	N.D.	N.D.	0.0003	0.05	2.0
Benzo(k)fluoranthene	N.D.	N.D.	0.0004	0.05	2.0
Indeno(1,2,3cd)pyrene	N.D.	N.D.	0.0004	0.05	2.0
PAH (total of 10)	N.D.	N.D.	-	-	2.0

Chlorinated Hydrocarbons : Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018

Vinyl Chloride	N.D.	N.D.	0.01	5	20
Dichloromethane	N.D.	N.D.	0.01	1,000	20
1,1-Dichloroethane	N.D.	N.D.	7	900	20
1,2-Dichloroethane	N.D.	N.D.	7	400	20
1,1-Dichloroethene	N.D.	N.D.	0.01	10	20
1,2-Dichloroethene (cis + trans)	N.D.	N.D.	0.01	20	20
Dichloropropanes	N.D.	N.D.	0.8	80	20
Trichloromethane (Chloroform)	N.D.	N.D.	6	400	20
1,1,1-Trichloroethane	N.D.	N.D.	0.01	300	20
1,1,2-Trichloroethane	N.D.	N.D.	0.01	130	20
Trichloroethene	N.D.	N.D.	24	500	20
Tetrachloromethane	N.D.	N.D.	0.01	10	20
Tetrachloroethene	N.D.	N.D.	0.01	40	20
Chlorobenzenes (total of 6)	N.D.	N.D.	-	-	20
Monochlorobenzene	N.D.	N.D.	7	180	20
Dichlorobenzenes (total)	N.D.	N.D.	3	50	20

STATS

TEST RESULTS FOR WATER (in ug/L unless otherwise specified):

Sample ID / Monitoring Well	MW-TD/2100	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR	
Static Water Table Depth (m-TOC)	2.00	-	-	-	-	
pH value	4.5	-	-	-	-	APHA 4500-H+(B)
@ Temperature (deg. C)	23.6	-	-	-	-	

Chlorinated Hydrocarbons : Semi-Volatile Organic Compounds (SVOC's) by USEPA 3510C:1996 & USEPA 8270E:2018

Trichlorobenzenes (total)	N.D.	N.D.	0.01	10	1.0
Tetrachlorobenzenes (total)	N.D.	N.D.	0.01	2.5	2.0
Pentachlorobenzenes	N.D.	N.D.	0.003	1	1.0
Hexachlorobenzenes	N.D.	N.D.	0.00009	0.5	1.0
Chlorophenols (total of 5)	N.D.	N.D.	-	-	3.0
Monochlorophenols (total)	N.D.	N.D.	0.30	100	2.0
Dichlorophenols (total)	N.D.	N.D.	0.20	30	3.0
Trichlorophenols (total)	N.D.	N.D.	0.03	10	1.0
Tetrachlorophenols (total)	N.D.	N.D.	0.01	10	3.0
Pentachlorophenol	N.D.	N.D.	0.04	3	4.0
Chloronaphthalene	N.D.	N.D.	-	6	2.0
Monochloroanilines	N.D.	N.D.	-	30	2.0
Polychlorobiphenyls (total)	N.D.	N.D.	0.01 (d)	0.01	1.0

Pesticides : Semi-Volatile Organic Compounds (SVOC's) by USEPA 3510C:1996 & USEPA 8270E:2018

sum DDT/DDD/DDE	N.D.	N.D.	0.000004	0.01	2.0
DDT	N.D.	N.D.	-	-	2.0
DDE	N.D.	N.D.	-	-	1.0
DDD	N.D.	N.D.	-	-	1.0
sum aldrin, dieldrin, endrin	N.D.	N.D.	-	0.1	1.0
Aldrin	N.D.	N.D.	0.000009	-	1.0
Dieldrin	N.D.	N.D.	0.0001	-	1.0
Endrin	N.D.	N.D.	0.00004	-	1.0
sum HCH	N.D.	N.D.	0.05	1	1.0
a-HCH	N.D.	N.D.	0.033	-	1.0
b-HCH	N.D.	N.D.	0.008	-	1.0
g-HCH	N.D.	N.D.	0.009	-	1.0
d-HCH	N.D.	N.D.	-	-	1.0
Atrazine	N.D.	N.D.	0.029	150	1.0
Carbaryl	N.D.	N.D.	0.002	50	4.0
Carbofuran	N.D.	N.D.	0.009	100	4.0
Chlordane	N.D.	N.D.	0.00002	0.2	1.0
Endosulfan	N.D.	N.D.	0.0002	5	1.0
Heptachlor	N.D.	N.D.	0.000005	0.3	1.0
Heptachlor Epoxide	N.D.	N.D.	0.000005	3	1.0

STATS

TEST RESULTS FOR WATER (in ug/L unless otherwise specified):

Sample ID / Monitoring Well	MW-TD/2100	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR	
Static Water Table Depth (m-TOC)	2.00	-			-	
pH value	4.5	-	-	-	-	APHA 4500-H*(B)
@ Temperature (deg. C)	23.6	-	-	-	-	

Other Pollutants : Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018

Cyclohexanone	N.D.	N.D.	0.5	15,000	120
Tetrahydrofuran	N.D.	N.D.	0.5	300	40
Tetrahydrothiophene	N.D.	N.D.	0.5	5000	40
Tribromomethane (Bromoform)	N.D.	N.D.	-	630	20

Other Pollutants : Semi-Volatile Organic Compounds (SVOC's) by USEPA 3510C:1996 & USEPA 8270E:2018

Phthalates (total)	N.D.	N.D.	0.5	5	2.0
Pyridine	N.D.	N.D.	0.5	30	2.0
MCPA	N.D.	N.D.	-	50	1.0

Other Pollutants : Total Petroleum Hydrocarbons (TPH) with reference to US EPA Method 8015C:2007

C6 - C9	N.D.	N.D.	-	-	20
C10 - C14	N.D.	N.D.	-	-	50
C15 - C28	66	N.D.	-	-	50
C29 - C36	N.D.	N.D.	-	-	50
C10 - C36	N.D.	N.D.	-	-	150
C6 - C36 (Total)	N.D.	N.D.	50**	600**	170

(**Dutch Standard for mineral oil)

Surrogate Recovery by USEPA 8260D:2018

p-Bromofluorobenzene (%)	102	100
1,2-Dichloroethane-d4 (%)	110	97.0
Toluene-d8 (%)	106	94.0

Surrogate Recovery by USEPA 8270E:2018

Benzene-d5, nitro- (%)	101	103
1,1'-biphenyl,2-fluoro (%)	82.5	90.2
p-Terphenyl-d14 (%)	83.0	88.6
Phenol, 2-fluoro (%)	106	109
Phenol-d5 (%)	108	110
Phenol, 2,4,6-Tribromo (%)	79.3	91.1

Note:

1. APHA is a standard method for Determination of Water and Waste Water (APHA 23rd Edition, 2017).
2. LOR = Limit of Reporting. Detection Limit is based on the highest detection limit obtained from the individual compound.
3. "ND" = Not detected. The data reported is less than the LOR.
4. * Test was sub-contracted to external laboratory.

STATS

TEST RESULTS FOR WATER (in ug/L unless otherwise specified):

Sample ID / Monitoring Well	EB-1	EB-2	EB-3	EB-4	TB-1	TB-2	TB-3	TB-4	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR
Static Water Table Depth (m-TOC)	-	-	-	-	-	-	-	-	-	-	-	-
pH value (APHA 4500-H+(B))	-	-	-	-	-	-	-	-	-	-	-	-
@ Temperature (deg. C)	-	-	-	-	-	-	-	-	-	-	-	-
Metals by APHA 3125B												
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	10	60	2.0
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	-	20	2.0
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	50	625	2.0
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.4	6	0.25
Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	1	30	0.5
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	20	100	2.0
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	15	75	2.0
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.05	0.3	0.1
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	15	75	2.0
Molybdenum (Mo)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	5	300	2.0
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	15	75	2.0
Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	65	800	2.0
Organotin compounds (as Total Sn)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	-	0.7	0.5
Aromatic Compounds : BTEX - Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018												
Benzene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	30	20
Ethylbenzene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	4	150	20
Toluene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	7	1,000	20
Xylene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	70	40
Styrene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.6	300	20
Polynuclear Aromatic Hydrocarbon (PAH) : Semi-Volatile Organic Compounds (SVOC's) by USEPA 3510C:1996 & USEPA 8270E:2018												
Naphthalene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.01	70	1.0
Anthracene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.007	5	1.0
Phenanthrene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.003	5	1.0
Fluoranthene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.003	1	1.0
Benzo(a)anthracene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.0001	0.5	1.0
Chrysene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.003	0.2	1.0
Benzo(a)pyrene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.001	0.05	2.0
Benzo(ghi)perylene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.0003	0.05	2.0
Benzo(k)fluoranthene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.0004	0.05	2.0
Indeno(1,2,3cd)pyrene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.0004	0.05	2.0
PAH (total of 10)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	-	-	2.0
Chlorinated Hydrocarbons : Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018												
Vinyl Chloride	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.01	5	20
Dichloromethane	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.01	1,000	20
1,1-Dichloroethane	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	7	900	20
1,2-Dichloroethane	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	7	400	20
1,1-Dichloroethene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.01	10	20
1,2-Dichloroethene (cis + trans)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.01	20	20
Dichloropropanes	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.8	80	20
Trichloromethane (Chloroform)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	6	400	20
1,1,1-Trichloroethane	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.01	300	20
1,1,2-Trichloroethane	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.01	130	20
Trichloroethene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	24	500	20
Tetrachloromethane	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.01	10	20
Tetrachloroethene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.01	40	20
Chlorobenzenes (total of 6)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	-	-	20
Monochlorobenzene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	7	180	20
Dichlorobenzenes (total)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	3	50	20

STATS

TEST RESULTS FOR WATER (in ug/L unless otherwise specified):

Sample ID / Monitoring Well	EB-1	EB-2	EB-3	EB-4	TB-1	TB-2	TB-3	TB-4	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR
Static Water Table Depth (m-TOC)	-	-	-	-	-	-	-	-	-	-	-	-
pH value (APHA 4500-H^+(B))	-	-	-	-	-	-	-	-	-	-	-	-
@ Temperature (deg. C)	-	-	-	-	-	-	-	-	-	-	-	-
Chlorinated Hydrocarbons : Semi-Volatile Organic Compounds (SVOC's) by USEPA 3510C:1996 & USEPA 8270E:2018												
Trichlorobenzenes (total)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.01	10	1.0
Tetrachlorobenzenes (total)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.01	2.5	2.0
Pentachlorobenzenes	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.003	1	1.0
Hexachlorobenzenes	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.00009	0.5	1.0
Chlorophenols (total of 5)	-	-	-	-	-	-	-	-	N.D.	-	-	3.0
Monochlorophenols (total)	-	-	-	-	-	-	-	-	N.D.	0.30	100	2.0
Dichlorophenols (total)	-	-	-	-	-	-	-	-	N.D.	0.20	30	3.0
Trichlorophenols (total)	-	-	-	-	-	-	-	-	N.D.	0.03	10	1.0
Tetrachlorophenols (total)	-	-	-	-	-	-	-	-	N.D.	0.01	10	3.0
Pentachlorophenol	-	-	-	-	-	-	-	-	N.D.	0.04	3	4.0
Chloronaphthalene	-	-	-	-	-	-	-	-	N.D.	-	6	2.0
Monochloroanilines	-	-	-	-	-	-	-	-	N.D.	-	30	2.0
Polychlorobiphenyls (total)	-	-	-	-	-	-	-	-	N.D.	0.01 (d)	0.01	1.0
Other Pollutants : Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018												
Cyclohexanone	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.5	15,000	120
Tetrahydrofuran	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.5	300	40
Tetrahydrothiophene	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	0.5	5000	40
Tribromomethane (Bromoform)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	-	630	20
Other Pollutants : Total Petroleum Hydrocarbons (TPH) with reference to US EPA Method 8015C:2007												
C6 - C9	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	-	-	20
C10 - C14	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	-	-	50
C15 - C28	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	-	-	50
C29 - C36	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	-	-	50
C10 - C36	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	-	-	150
C6 - C36 (Total)	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	50**	600**	170

(**Dutch Standard for mineral oil)

Surrogate Recovery by USEPA 8260D:2018

p-Bromofluorobenzene (%)	85.0	83.0	111	94.0	100	112	101	94.0	100
1,2-Dichloroethane-d4 (%)	75.0	87.0	99.0	74.0	76.0	98.0	77.0	89.0	97.0
Toluene-d8 (%)	114	111	117	107	104	111	108	113	94.0

Surrogate Recovery by USEPA 8270E:2018

Benzene-d5, nitro- (%)	106	94.1	103	101	-	-	-	-	103
1,1'-biphenyl,2-fluoro (%)	89.8	79.5	88.2	87.1	-	-	-	-	90.2
p-Terphenyl-d14 (%)	91.5	79.3	85.4	87.0	-	-	-	-	88.6
Phenol, 2-fluoro (%)	109	96.9	105	105	-	-	-	-	109
Phenol-d5 (%)	110	98.3	107	106	-	-	-	-	110
Phenol, 2,4,6-Tribromo (%)	91.7	78.6	84.5	84.7	-	-	-	-	91.1

Note:

1. APHA is a standard method for Determination of Water and Waste Water (APHA 23rd Edition, 2017).
2. LOR = Limit of Reporting. Detection Limit is based on the highest detection limit obtained from the individual compound.
3. "ND" = Not detected. The data reported is less than the LOR.

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TEST REPORT

(This report is issued subject to the terms & conditions set out below)

Your Ref : - **Our Ref : ENV-2210662-3** **Date : 13 October 2022**

Subject	:	Analysis of water samples submitted by Ryobi Geotechnique International Pte Ltd on 24 September 2022 and testing commenced on 26 September 2022.
Tested for	:	**Ryobi Geotechnique International Pte Ltd** 70 Sungei Kadut Loop Singapore 729511
Sample Reference	:	2 water samples were received. [Location: Sungei Kadut]
Results :	:	**Refer Page 2 to 2**

Signed for and on behalf of STATS Asia Pacific Pte Ltd

LEI ZHI PEI
DIRECTOR

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ENV-2210662-3

#	Test Parameter	Unit	Test Method	MW-TD/2096	MW-TD/2097	Reporting Limit	Limit of trade Effluent into Public Sewers
1	5 Day BioChemical Oxygen Demand (BOD) at 20°C	mg/L	APHA 5210B	6	6	2	400
2	Chemical Oxygen Demand (COD)	mg/L	HACH Method 8000	Not Detected	Not Detected	50	600
3	Total Suspended Solids (TSS)	mg/L	APHA 2540D	19110	3304	10	400
4	Total Dissolved Solids (TDS)	mg/L	APHA 2540C	260	372	10	3000
5	Chloride (as Chloride Ion)*	mg/L	APHA 4110B	62.9	53.9	1	1000
6	Sulphate (as SO_4)*	mg/L	APHA 4110B	54.6	66.2	1	1000
7	Sulphide (as Sulphur)	mg/L	HACH Method 8131	Not Detected	Not Detected	0.1	1
8	Cyanide (as CN)	mg/L	APHA 4500-CN (E)	Not Detected	Not Detected	0.1	2
9	Detergents (linear alkylate sulphonate as methylene blue active substances)	mg/L	APHA 5540C	Not Detected	Not Detected	0.1	30
10	Grease and Oil (Hydrocarbon)	mg/L	STATS-ENV-SOP-025	Not Detected	Not Detected	10	60
11	Grease and Oil (Non-hydrocarbon)	mg/L	STATS-ENV-SOP-025	Not Detected	Not Detected	10	100
12	Arsenic (As)	mg/L	APHA 3125B	0.27	0.03	0.01	5
13	Barium (Ba)	mg/L	APHA 3125B	1.01	0.09	0.01	10
14	Tin (Sn)	mg/L	APHA 3125B	0.01	Not Detected	0.01	10
15	Iron (Fe)	mg/L	APHA 3120B	3.31	0.42	0.1	50
16	Beryllium (Be)	mg/L	APHA 3125B	0.03	Not Detected	0.01	5
17	Boron (B)	mg/L	APHA 3125B	0.05	0.03	0.01	5
18	Manganese (Mn)	mg/L	APHA 3125B	2.02	0.11	0.01	10
19	Phenolic Compounds (expressed as phenols)*	mg/L	In House Method: MLS-SOP-WQ-009 Rev 2	Not Detected	Not Detected	0.025	0.5
20	Fluoride (expressed as fluoriode ion)	mg/L	Pt 4500-F (C)	0.1	0.4	0.1	15
21	Cadmium (Cd)	mg/L	APHA 3125B	Not Detected	Not Detected	0.01	1
22	Chromium (Trivalent and Hexavalent)	mg/L	APHA 3125B	0.46	0.03	0.01	5
23	Copper (Cu)	mg/L	APHA 3125B	0.36	0.12	0.01	5
24	Lead (Pb)	mg/L	APHA 3125B	0.97	0.08	0.01	5
25	Mercury (Hg)	mg/L	APHA 3125B	Not Detected	Not Detected	0.01	0.5
26	Nickel (Ni)	mg/L	APHA 3125B	0.05	Not Detected	0.01	10
27	Selenium (Se)	mg/L	APHA 3125B	0.05	Not Detected	0.01	10
28	Silver (Ag)	mg/L	APHA 3125B	Not Detected	Not Detected	0.01	5
29	Zinc (Zn)	mg/L	APHA 3125B	1.49	0.27	0.01	10

Note:

1. APHA is a standard method for Determination of Water and Waste Water (APHA 23rd Edition, 2017).
2. LOR = Limit of Reporting. Detection Limit is based on the highest detection limit obtained from the individual compound.
3. Not detected. The data reported is less than the LOR.
4. * Test was sub-contracted to external laboratory.

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TEST REPORT

(This report is issued subject to the terms & conditions set out below)

Your Ref : - **Our Ref : ENV-2210662-4** **Date : 22 November 2022**

Subject	:	Analysis of soil and water samples submitted by Ryobi Geotechnique International Pte Ltd on 31 October 2022 and testing commenced on 01 November 2022.
Tested for	:	**Ryobi Geotechnique International Pte Ltd** 70 Sungei Kadut Loop Singapore 729511
Sample Reference	:	7 soil samples + 2 water samples were received. [Location: Sungei Kadut]
Results :	:	**Refer Page 2 to 7**

Signed for and on behalf of STATS Asia Pacific Pte Ltd

LEI ZHI PEI
DIRECTOR

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STATS

TEST RESULTS FOR SOIL (in mg/kg unless otherwise specified):

Sample Bore Hole	TD 1067	TD 1067	TD 1067	TD 1068	TD 1068	TD 1068	QC	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR
Sample No.	S1	S3	S4	S1	S3	S4	-	-	-	-	-
Sample Depth m bgl	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	-	-	-	-	-
pH by BS 1377-3: 2018	7.5	7.0	5.5	7.6	8.1	6.0	7.8	-	-	-	-
Metals : by USEPA 3051A:2007 & APHA 3120B											
Arsenic (As)	13.96	9.34	N.D.	43.49	N.D.	N.D.	13.66	N.D.	-	76	2.00
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	22	2.00
Barium (Ba)	16.99	5.43	18.02	13.97	N.D.	N.D.	16.81	N.D.	-	-	2.00
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	13	2.00
Chromium (Cr)	8.58	16.26	N.D.	12.41	2.25	N.D.	8.59	N.D.	-	-	2.00
Copper (Cu)	13.45	N.D.	N.D.	4.67	N.D.	N.D.	13.49	N.D.	-	190	2.00
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	190	2.00
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	2.00
Lead (Pb)	10.37	8.97	3.79	24.82	N.D.	8.47	10.52	N.D.	-	530	2.00
Molybdenum (Mo)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	190	2.00
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	100	2.00
Zinc (Zn)	56.24	18.14	N.D.	129.32	N.D.	N.D.	54.51	N.D.	-	720	2.00
Organotin compounds (as Total Sn)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	2.5	1.00
Inorganic Compound : Cyanide (CN) by APHA 4500-CN (E)											
Cyanide (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	20	0.50
Aromatic Compounds : BTEX - Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018											
Benzene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	1.1	0.1
Ethylbenzene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	110	0.1
Toluene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	32	0.1
Xylene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	17	0.2
Styrene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	86	0.1
Aromatic Compounds : Semi-Volatile Organic Compounds (SVOC's) by USEPA 8270E:2018											
Phenol	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	14	0.1
Cresols	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	13	0.2
Catechol	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	1.0
Resorcinol	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.4
Hydrochinon	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.4

Total Cyanide consists of Free Cyanide, Complex Cyanide and Total Thiocyanates. In this study, the Target and Intervention values of Free Cyanide, which are the most stringent Target and Intervention values of all three Cyanide species, are applied to the concentration of Total Cyanide (i.e. Free Cyanide + Complex Cyanide + Total Thiocyanates).

STATS

TEST RESULTS FOR SOIL (in mg/kg unless otherwise specified):

Sample Bore Hole	TD 1067	TD 1067	TD 1067	TD 1068	TD 1068	TD 1068	QC	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR
Sample No.	S1	S3	S4	S1	S3	S4	-	-	-	-	-
Sample Depth m bgl	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	-	-	-	-	-
pH by BS 1377-3: 2018	7.5	7.0	5.5	7.6	8.1	6.0	7.8	-	-	-	-
Polynuclear Aromatic Hydrocarbon (PAH) : Semi-Volatile Organic Compounds (SVOC's) by USEPA 8270E:2018											
Naphthalene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Anthracene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Phenanthrene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Fluoranthene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Benzo(a)anthracene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Chrysene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Benzo(a)pyrene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Benzo(ghi)perylene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Benzo(k)fluoranthene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.2
Indeno(1,2,3cd)pyrene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.2
PAH (total of 10)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.2
Chlorinated Hydrocarbons : Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018											
Vinyl Chloride	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	40	0.2
Dichloromethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.1	0.1
1,1-Dichloroethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	3.9	0.1
1,2-Dichloroethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	15	0.1
1,1-Dichloroethene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	6.4	0.1
1,2-Dichloroethene (cis + trans)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.3	0.1
Dichloropropanes	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	1	0.1
Trichloromethane (Chloroform)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	2	0.1
1,1,1-Trichloroethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5.6	0.1
1,1,2-Trichloroethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	15	0.1
Trichloroethene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	10	0.1
Tetrachloromethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	2.5	0.1
Tetrachloroethene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.7	0.1
Chlorobenzenes (total of 6)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	8.8	0.1
Monochlorobenzene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.2
Dichlorobenzenes (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	15	0.1
Chlorinated Hydrocarbons : Semi-Volatile Organic Compounds (SVOC's) by USEPA 8270E:2018											
Trichlorobenzenes (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	19	0.1
Tetrachlorobenzenes (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	11	0.1
Pentachlorobenzenes	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	2.2	0.2
Hexachlorobenzenes	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	6.7	0.1
Chlorophenols (total of 5)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	2	0.1
Monochlorophenols (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.3
Dichlorophenols (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5.4	0.2
Trichlorophenols (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	22	0.3
Tetrachlorophenols (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	22	0.1
Pentachlorophenol	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	21	0.3
Chloronaphthalene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	12	0.4
Monochloroanilines	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	23	0.2
Polychlorobiphenyls (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	50	0.2
									-	1	0.1

STATS

TEST RESULTS FOR SOIL (in mg/kg unless otherwise specified):

Sample Bore Hole	TD 1067	TD 1067	TD 1067	TD 1068	TD 1068	TD 1068	QC	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR
Sample No.	S1	S3	S4	S1	S3	S4	-	-	-	-	-
Sample Depth m bgl	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	-	-	-	-	-
pH by BS 1377-3: 2018	7.5	7.0	5.5	7.6	8.1	6.0	7.8	-	-	-	-

Pesticides : Semi-Volatile Organic Compounds (SVOC's) by USEPA 8270E:2018

sum DDT/DDD/DDE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.2
DDT	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	1.7	0.2
DDE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	2.3	0.1
DDD	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	34	0.1
sum aldrin, dieldrin, endrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	4	0.1
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.32	0.1
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Endrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
sum HCH	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
a-HCH	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	17	0.1
b-HCH	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	1.6	0.1
g-HCH	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	1.2	0.1
d-HCH	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.1
Atrazine	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.71	0.1
Carbaryl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.45	0.4
Carbofuran	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.017	0.4
Chlordane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	4	0.1
Endosulfan	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	4	0.1
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	4	0.1
Heptachlor Epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	4	0.1

Other Pollutants : Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018

Cyclohexanone	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	150	0.6
Tetrahydrofuran	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	7	0.2
Tetrahydrothiophene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	8.8	0.2
Tribromomethane (Bromoform)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	75	0.1

Other Pollutants : Semi-Volatile Organic Compounds (SVOC's) by USEPA 8270E:2018

Dimethyl phthalate (DMP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	82	0.2
Diethyl phthalate (DEP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	53	0.2
Di-isobutylphthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	17	0.2
Dibutylphthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	36	0.2
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	48	0.2
Dihexylphthalate (DHP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	220	0.2
Di(2-ethylhexyl)phthalate (DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	60	0.2
Phthalates (total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	0.2
Pyridine	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	11	0.2
MCPA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	4	1.0

STATS

TEST RESULTS FOR SOIL (in mg/kg unless otherwise specified):

Sample Bore Hole	TD 1067	TD 1067	TD 1067	TD 1068	TD 1068	TD 1068	QC	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR
Sample No.	S1	S3	S4	S1	S3	S4	-	-	-	-	-
Sample Depth m bgl	0.5-0.7	3.0-3.2	4.5-4.7	0.5-0.7	3.0-3.2	4.5-4.7	-	-	-	-	-
pH by BS 1377-3: 2018	7.5	7.0	5.5	7.6	8.1	6.0	7.8	-	-	-	-

Other Pollutants : Asbestos by ISO 22262-1:2012 & AS 4964:2004

Asbestos	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	100	100

Other Pollutants : Total Petroleum Hydrocarbons (TPH) with reference to US EPA Method 8015C:2007

C6 - C9	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	10.0
C10 - C14	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.			10.0
C15 - C28	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.			10.0
C29 - C36	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	10.0
C10-C36	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	30.0
C6 - C36 (Total)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5,000**	40.0

(**Dutch Standard for mineral oil)

Miscellaneous : Moisture Content and Organic Matter (LOI) by BS 1377-2:1990 & BS 1377-3:2018

Moisture Content, %	25.28	33.39	48.50	21.54	15.70	13.92	31.22	-	-	-	0.01
Organic Matter (LOI), %	3.46	3.48	4.76	3.82	0.78	1.00	3.87	-	-	-	0.03

Surrogate Recovery by USEPA 8260D:2018

p-Bromofluorobenzene (%)	116	115	112	97.0	105	117	108	100
1,2-Dichloroethane-d4 (%)	75.0	107	83.0	82.0	101	113	97.0	97.0
Toluene-d8 (%)	126	115	100	111	107	120	121	94.0

Surrogate Recovery by USEPA 8270E:2018

Benzene-d5, nitro- (%)	84.0	80.1	97.3	83.6	86.4	92.2	80.9	98.6
1,1'-biphenyl,2-fluoro (%)	72.7	69.2	81.8	70.5	74.4	78.7	70.6	91.2
p-Terphenyl-d14 (%)	67.6	66.7	80.6	68.3	75.7	78.5	68.3	74.4
Phenol, 2-fluoro (%)	84.7	80.7	97.5	84.2	89.1	93.5	79.3	92.2
Phenol-d5 (%)	84.0	80.7	96.7	83.3	88.6	93.5	80.6	93.1
Phenol, 2,4,6-Tribromo (%)	81.8	78.2	91.6	80.2	82.9	91.2	77.5	95.9

Note:

1. APHA is a standard method for Determination of Water and Waste Water (APHA 23rd Edition, 2017).
2. LOR = Limit of Reporting. Detection Limit is based on the highest detection limit obtained from the individual compound.
3. "ND" = Not detected. The data reported is less than the LOR.

STATS

TEST RESULTS FOR WATER (in ug/L unless otherwise specified):

Sample ID / Monitoring Well	EB-1	TB-1	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR
Static Water Table Depth (m-TOC)	-	-	-	-	-	-
pH value (APHA 4500-H$^+$(B))	-	-	-	-	-	-
@ Temperature (deg. C)	-	-	-	-	-	-
Metals by APHA 3125B						
Arsenic (As)	N.D.	-	N.D.	10	60	2.0
Antimony (Sb)	N.D.	-	N.D.	-	20	2.0
Barium (Ba)	N.D.	-	N.D.	50	625	2.0
Cadmium (Cd)	N.D.	-	N.D.	0.4	6	0.25
Chromium (Cr)	N.D.	-	N.D.	1	30	0.5
Cobalt (Co)	N.D.	-	N.D.	20	100	2.0
Copper (Cu)	N.D.	-	N.D.	15	75	2.0
Mercury (Hg)	N.D.	-	N.D.	0.05	0.3	0.1
Lead (Pb)	N.D.	-	N.D.	15	75	2.0
Molybdenum (Mo)	N.D.	-	N.D.	5	300	2.0
Nickel (Ni)	N.D.	-	N.D.	15	75	2.0
Zinc (Zn)	N.D.	-	N.D.	65	800	2.0
Organotin compounds (as Total Sn)	N.D.	-	N.D.	-	0.7	0.5
Aromatic Compounds : BTEX - Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018						
Benzene	N.D.	N.D.	N.D.	0.2	30	20
Ethylbenzene	N.D.	N.D.	N.D.	4	150	20
Toluene	N.D.	N.D.	N.D.	7	1,000	20
Xylene	N.D.	N.D.	N.D.	0.2	70	40
Styrene	N.D.	N.D.	N.D.	0.6	300	20
Polynuclear Aromatic Hydrocarbon (PAH) : Semi-Volatile Organic Compounds (SVOC's) by USEPA 3510C:1996 & USEPA 8270E:2018						
Naphthalene	N.D.	-	N.D.	0.01	70	1.0
Anthracene	N.D.	-	N.D.	0.007	5	1.0
Phenanthrene	N.D.	-	N.D.	0.003	5	1.0
Fluoranthene	N.D.	-	N.D.	0.003	1	1.0
Benzo(a)anthracene	N.D.	-	N.D.	0.0001	0.5	1.0
Chrysene	N.D.	-	N.D.	0.003	0.2	1.0
Benzo(a)pyrene	N.D.	-	N.D.	0.001	0.05	2.0
Benzo(ghi)perylene	N.D.	-	N.D.	0.0003	0.05	2.0
Benzo(k)fluoranthene	N.D.	-	N.D.	0.0004	0.05	2.0
Indeno(1,2,3cd)pyrene	N.D.	-	N.D.	0.0004	0.05	2.0
PAH (total of 10)	N.D.	-	N.D.	-	-	2.0
Chlorinated Hydrocarbons : Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018						
Vinyl Chloride	N.D.	-	N.D.	0.01	5	20
Dichloromethane	N.D.	-	N.D.	0.01	1,000	20
1,1-Dichloroethane	N.D.	-	N.D.	7	900	20
1,2-Dichloroethane	N.D.	-	N.D.	7	400	20
1,1-Dichloroethene	N.D.	-	N.D.	0.01	10	20
1,2-Dichloroethene (cis + trans)	N.D.	-	N.D.	0.01	20	20
Dichloropropanes	N.D.	-	N.D.	0.8	80	20
Trichloromethane (Chloroform)	N.D.	-	N.D.	6	400	20
1,1,1-Trichloroethane	N.D.	-	N.D.	0.01	300	20
1,1,2-Trichloroethane	N.D.	-	N.D.	0.01	130	20
Trichloroethene	N.D.	-	N.D.	24	500	20
Tetrachloromethane	N.D.	-	N.D.	0.01	10	20
Tetrachloroethene	N.D.	-	N.D.	0.01	40	20
Chlorobenzenes (total of 6)	N.D.	-	N.D.	-	-	20
Monochlorobenzene	N.D.	-	N.D.	7	180	20
Dichlorobenzenes (total)	N.D.	-	N.D.	3	50	20

STATS

TEST RESULTS FOR WATER (in ug/L unless otherwise specified):

Sample ID / Monitoring Well	EB-1	TB-1	Method BLK	DUTCH (Target)	DUTCH (Intervention)	LOR
Static Water Table Depth (m-TOC)	-	-	-	-	-	-
pH value (APHA 4500-H^+(B))	-	-	-	-	-	-
@ Temperature (deg. C)	-	-	-	-	-	-

Chlorinated Hydrocarbons : Semi-Volatile Organic Compounds (SVOC's) by USEPA 3510C:1996 & USEPA 8270E:2018

Trichlorobenzenes (total)	N.D.	-	N.D.	0.01	10	1.0
Tetrachlorobenzenes (total)	N.D.	-	N.D.	0.01	2.5	2.0
Pentachlorobenzenes	N.D.	-	N.D.	0.003	1	1.0
Hexachlorobenzenes	N.D.	-	N.D.	0.00009	0.5	1.0
Chlorophenols (total of 5)	-	-	N.D.	-	-	3.0
Monochlorophenols (total)	-	-	N.D.	0.30	100	2.0
Dichlorophenols (total)	-	-	N.D.	0.20	30	3.0
Trichlorophenols (total)	-	-	N.D.	0.03	10	1.0
Tetrachlorophenols (total)	-	-	N.D.	0.01	10	3.0
Pentachlorophenol	-	-	N.D.	0.04	3	4.0
Chloronaphthalene	-	-	N.D.	-	6	2.0
Monochloroanilines	-	-	N.D.	-	30	2.0
Polychlorobiphenyls (total)	-	-	N.D.	0.01 (d)	0.01	1.0

Other Pollutants : Volatile Organic Compounds (VOC's) by USEPA 5021A:2014 / 8260D:2018

Cyclohexanone	N.D.	-	N.D.	0.5	15,000	120
Tetrahydrofuran	N.D.	-	N.D.	0.5	300	40
Tetrahydrothiophene	N.D.	-	N.D.	0.5	5000	40
Tribromomethane (Bromoform)	N.D.	-	N.D.	-	630	20

Other Pollutants : Total Petroleum Hydrocarbons (TPH) with reference to US EPA Method 8015C:2007

C6 - C9	N.D.	-	N.D.	-	-	20
C10 - C14	N.D.	-	N.D.	-	-	50
C15 - C28	N.D.	-	N.D.	-	-	50
C29 - C36	N.D.	-	N.D.	-	-	50
C10 - C36	N.D.	-	N.D.	-	-	150
C6 - C36 (Total)	N.D.	-	N.D.	50**	600**	170

(**Dutch Standard for mineral oil)

Surrogate Recovery by USEPA 8260D:2018

p-Bromofluorobenzene (%)	121	104	100
1,2-Dichloroethane-d4 (%)	126	95.0	97.0
Toluene-d8 (%)	113	118	94.0

Surrogate Recovery by USEPA 8270E:2018

Benzene-d5, nitro- (%)	94.4	-	N.D.
1,1'-biphenyl,2-fluoro (%)	82.7	-	N.D.
p-Terphenyl-d14 (%)	73.2	-	N.D.
Phenol, 2-fluoro (%)	90.1	-	N.D.
Phenol-d5 (%)	90.7	-	N.D.
Phenol, 2,4,6-Tribromo (%)	93.5	-	N.D.

Note:

1. APHA is a standard method for Determination of Water and Waste Water (APHA 23rd Edition, 2017).
2. LOR = Limit of Reporting. Detection Limit is based on the highest detection limit obtained from the individual compound.
3. "ND" = Not detected. The data reported is less than the LOR.