Summary of environmental impacts associated with the Project

Sensitive Receivers /	Impact Prediction Results	Key Relevant	Extents of Exceedance	Impact Avoidance Measures/ Mitigation Measures	Residual Impacts (After Implementation of
Assessment Points		Standards/Criteria	(Without Mitigation)		Mitigation Measures)
Air Quality Impact					
Construction Phase		I	1		
Existing and planned ASRs	 Adverse construction dust impact is not anticipated with proper implementation of good control measures and environmental monitoring and audit 	 AQO EIAO-TM Annex 4 24-hour average RSP concentration: 100 µg/m³ (Number of exceedance allowed: 9) Annual average RSP concentration: 50 µg/m³ 24-hour average FSP concentration: 50 µg/m³ (Number of exceedance allowed: 18) Annual average FSP concentration: 25 µg/m³ 	Not applicable	 Close liaison between the contractors of other concurrent projects and the Project would be maintained to minimise dusty activities to be conducted concurrently as far as practicable Good control measures are recommended: Watering once per hour on the exposed construction areas with dust emission and paved haul roads to reduce dust emission; Dust suppression measures stipulated in the Air Pollution Control (Construction Dust) Regulation and good sites practices would be carried out to further minimise construction dust impact; Follow the requirements stipulated in the Best Practicable Means for Cement Works (Concrete Batching Plant) BPM 3/2 (16) to minimise the fugitive emissions arising from the operation of concrete batching plant; Emission control measures for barging facilities, such as provision of enclosed system with 3-side screen with top cover and provision of water spraying system, regular water and covering spoils by tarpaulin; and The engine of the barge shall be switched-off during berthing as far as practicable. Provision of on-shore power supply shall also be considered wherever possible to minimize air quality impact from the marine vessels, with consideration of actual site constraints or circumstances to be further reviewed during detail design stage. 	No adverse residual impacts anticipated
Operational Phase	I	1	1	down dollan swelv	
Existing and planned ASRs	 NO₂ 19th highest 1-hr average concentration: 88 – 166 μg/m³ Annual average concentration: 17 – 39μg/m³ RSP 10th highest 24-hour average RSP concentration: 64 – 73μg/m³ Annual average RSP concentration: 26 – 29μg/m³ FSP 19th highest 24-hour average FSP concentration: 35 – 41μg/m³ Annual average FSP concentration: 15 – 16μg/m³ 	 AQO EIAO-TM Annex 4 1-hour average NO₂ concentration: 200 μg/m³ (Number of exceedance allowed: 18) Annual average NO₂ concentration: 40 μg/m³ 24-hour average RSP concentration: 100 μg/m³ (Number of exceedance allowed: 9) Annual average RSP concentration: 50 μg/m³ 24-hour average RSP concentration: 100 μg/m³ (Number of exceedance allowed: 9) Annual average RSP concentration: 50 μg/m³ 24-hour average RSP concentration: 50 μg/m³ Annual average RSP concentration: 50 μg/m³ Annual average FSP concentration: 50 μg/m³ (Number of exceedance allowed: 18) Annual average FSP concentration: 25 μg/m³ 	No exceedance is anticipated	 No mitigation measure is required During the subsequent design stage and the operational stage, the ventilation engineer should conduct reviews on the ventilation scheme covering different periods of a day, taking into account the contemporary circumstance such as latest traffic forecast, traffic composition, update on the ambient air quality, etc., and then review and update the air quality assessment as necessary to demonstrate full compliance of the AQOs. These reviews would allow the designer and operator to optimize the operation of the ventilation system without compromising the compliance of AQOs. The planned air sensitive uses within the operation area of the TMB shall be properly designed such that any openings, openable windows, and/or fresh air intakes will be located and avoided from the predicted exceedance zone at 1.5mAG. Further review of the layout and design of operation area will be conducted in Detailed Design Stage to ensure compliance of the AQOs. 	No adverse residual impacts anticipated

Sensitive Receivers / Assessment Points	Impact Prediction Results	Key Relevant Standards/Criteria	Extents of Exceedance (Without Mitigation)	Impact Avoidance Measures/ Mitigation Measures
Noise			(() mout minigation)	
Construction Phase				
Existing and planned NSRs	 Adverse construction noise impact is not anticipated with proper implementation of good control measures and environmental monitoring and audit The future Contractor will also be required to prepare a Construction Noise Management Plan (CNMP) 	 EIAO-TM Annex 5 and Annex 13 for non-restricted hours: L_{eq (30mins)} 75 dB(A) for all domestic premises, temporary housing accommodation, hostel, convalescent homes and homes for the aged L_{eq (30mins)} 70 dB(A) for places of public worship, courts of law, hospitals, medical clinics and educational institution (including kindergartens and nurseries) (65 dB(A) during examination period) 	• Not applicable	 Good control measures are recommended to minimize the construction noise impact as far as practical: Good site practices to limit noise emissions at the source; Use of quality powered mechanical equipments (QPMEs) and quieter construction methods; and Use of temporary noise barriers and enclosures to screen noise from relatively static PM.
Operational Phase (R	oad Traffic Noise)			
Existing and planned NSRs	 Predicted overall noise levels: 40 – 82dB(A) Predicted road traffic noise levels of the project roads: ≤40 – 79dB(A) Maximum contribution from Project roads (When the overall level exceeds respective criterion): 6.6dB(A) 	 EIAO-TM Annex 5 and Annex 13: L_{10 (Ihour)} 70dB(A) for all domestic premises, temporary housing accommodation, hostel, convalescent homes and homes for the aged L_{10 (Ihour)} 65dB(A) for places of public worship, courts of law, and educational institution L_{10 (Ihour)} 55dB(A) for medical and clinics 	• Exceed EIAO-TM criterion by up to 12 dB(A)	 Provision of highly modified friction course (HMFC) as standard surfacing material on the high speed road sections of new road projects with design speed of 80km/hr or above and expressway; Provision of 6mm polymer modified stone mastic asphalt (PMSMA6) as low noise surfacing material for other roads without standard surfacing material on suitable Project Road sections; Provision of noise mitigation measures: Lam Tei: Vertical Barrier (VB) and Cantilever Barrier (CB) along slip roads connecting KSWH / YLH; So Kwun Wat: CB near So Kwun Wat Link Road western portal; and Tsing Lung Tau: VB, CB and semi-enclosure along realigned TMR. For planned developments, necessary receiving-end mitigation measures will be proposed by the respective project proponent in addition to the proposed at-source mitigation measures
Operational Phase (Fi	(xeq inoise)		NT	
Existing and planned NSRs	 Adverse fixed noise impact is not anticipated with good design and control measures, and environmental monitoring and audit The future Contractor will also be required to prepare a Fixed Noise Management Plan (FNMP) 	 EIAO-TM Annex 5 and Annex 13, and IND-TM Appropriate ANLs and ANLs-5 as shown in Table 2 of IND-TM or the prevailing background noise level 	• Not applicable	 Proper selection of quieter equipment and installation of silencer, barrier or enclosure; Orientating louvres away from adjacent NSRs, preferably onto main roads which are less noise sensitive; and Selection of façade for ventilation shafts with adequate sound insulation properties.

Res	idual	Impacts	(After	Implementation	of
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•	INO au	iverse resi	iuuai iiip	acts anticipated	
•	No ad	verse resi	idual imp	acts anticipated	

Sensitive Receivers /	Impact Prediction Results	Key R Standards/Criteria	elevant	Extents of Exceedance (Without Mitigation)	Impact Avoidance Measures/ Mitigation Measures
Water Quality		Stanuarus/Criteria		(Without Withgation)	
Construction Phase					
Water Sensitive Receivers	 Water quality in WSRs would be deteriorated by land-based construction with the following pollution sources: Construction run-off and general construction activities; Tunnelling and underground works; Construction for ventilation buildings and administration buildings; Sewage due to construction workforce; Construction works in close proximity of inland water; Removal or diversion of Watercourses Groundwater from contaminated areas and contaminated site run-off; Operation of barging point; and Accidental spillage of chemicals. Water quality in WSRs would be affected by marine-based construction with the following pollution sources: Reclamation at Tsing Lung Tau; Construction of mud pit; and Marine works. 	 EIAO-TM Annex Annex 14 WPCO (Cap. 358) TM-DSS ProPECC PN 1/94 WSD's Water Criteria for Sea Intakes 	6 and Quality Water	• Not applicable	 Good site practices in accordance with ProPECC PN1/94 when handling the site sun-off from general site operation; Suitable water control strategies (e.g. probing ahead and pregrouting) during tunnel works; Temporary dewatering to minimize impacts on groundwater table during the works; Providing temporary sanitary facilities and posting notices about treating discharge at conspicuous locations for the workforce; Comply with the Conditions for Working within Water Gathering Grounds; Good site practices in accordance with ETWB TC(Works) No. 5/2005 "Protection of natural streams/rivers from adverse impacts arising from construction works" for removal or diversion of watercourses; Proper handling of contaminated groundwater and site run-off; Proper storage of the chemicals used during construction; Filling works to be conducted within the completed leading seawall; Mud pit to be completely sealed to prevent any leakage of backfilled sediments to the surrounding marine waters; and Deployment of single layer silt curtain as enhancement measures.
Operational Phase	W				
Water Sensitive Receivers	 Water quality in WSRs would be affected by the following operational activities: Surface run-off from paved areas of the Project; Sewage effluent from the proposed buildings; Drainage of road surface and tunnel runoff; and Wastewater generated from washing and maintenance operation. Quantitative water quality assessment results showed no adverse impact to water quality during operational phase. 	 EIAO-TM Annex Annex 14 WPCO (Cap. 358) TM-DSS ProPECC PN 5/93 	6 and	• Not applicable	 Provision of mitigation measures including 1) standard oil interceptors before discharge to stormwater drainage system and 2) silt trap for the surface runoff at the stormwater drainage system as necessary; Connection to existing sewerage networks for sewage effluent from proposed buildings; Collecting and treating wastewater generated by washing and maintenance activities of ventilation systems via an active carbon filter before being discharged to stormwater drainage system; and Proper collection and disposal of spent lubrication oil by Licensed Chemical Contractor.

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Sensitive Receivers /	Impact Prediction Results	Key Relevant	Extents of Exceedance	Impact Avoidance Measures/ Mitigation Measures	Residual Impacts (After Implementation of
Assessment Points		Standards/Criteria	(Without Mitigation)		Mitigation Measures)
Waste Management I	mplication				
Construction Phase					
The waste transportation routes and the waste disposal site, as well as the waste disposal outlet	 It is estimated that 1,596,600m³ of soft inert C&D material would be generated and reused on-site as far as practicable or delivered to Tuen Mun Area 38 Fill Bank for reuse in other projects; It is estimated that 7,701,700m³ of hard inert C&D material would be reused on-site as much as practicable and the surplus would be delivered to Tuen Mun Area 38 Fill Bank for reuse in other projects; It is estimated that 64,060m³ of non-inert C&D materials would be generated and be disposed of at WENT Landfill; It is estimated that 31,000m³ of marine sediment would be generated. Reuse of sediment on site would be generated and be recycled for recyclables or disposed of at WENT Landfill; It is estimated that 4,705tonnes of general refuse would be generated and be recycled for recyclables or disposed of at WENT Landfill; A few hundred litres of chemical wastes would be generated per month. It would be collected and disposed of by licensed collector at CWTC; and Floating refuse of approximately 1.5m³ per year would be trapped within the Project Area. 	 EIAO-TM Annex 7 and Annex 15 WDO (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28) Public Health and Municipal Services Ordinance (Cap. 132) – Public Cleansing and Prevention of Nuisances Regulations DASO (Cap. 466) DEVB TCW No. 06/2010 ETWB TC(W) No. 34/2002 WBTC No. 12/2000 Fill Management 	• Not applicable	 Waste reduction should be considered at the planning and design phase, as well as by ensuring the implementation of good site practices; Carry out on-site sorting to retrieve recyclable materials as much as possible; Inert construction waste shall not be in liquid form such that it can be contained and delivered by water-tight containers. Inert C&D materials in liquid form shall be solidified before delivering to the public fill reception facilities; A trip-ticket system shall be implemented and GPS or equivalent system shall be installed in dump trucks and vessels for delivery of inert C&D materials or marine sediment from the site to disposal locations to avoid illegal dumping and landfilling; If chemical wastes are produced at the construction site, the contractors should register with EPD as chemical waste producers. Chemical wastes should be stored in appropriate containers and collected by a licensed chemical waste collector; General refuse should be stored in enclosed bins separately from construction and chemical wastes. Recycling bins should also be placed to encourage recycling. Preferably enclosed and covered areas should be provided for general refuse collector should be employed to remove general refuse on a daily basis; Good management practices for handling and disposal of marine sediments at dedicated marine disposal sites; and Regular inspection and monitoring of floating refuse will be conducted by contractor at biweekly interval. Waste collection by the contractor will be arranged at biweekly interval. 	No adverse residual impact anticipated
The sector			NT / 11 11		
rne waste transportation routes and the waste disposal site, as well as the waste disposal outlet	 It is estimated that approximately 260kg of general refuse would be generated per day; It is estimated that maximum of a few hundred litres of chemical waste would be generated per month; and An estimation of 1.5m³ of floating refuse will be accumulated and collected by the contractor. 	 waste Disposal Ordinance (Cap. 354) DEVB TCW No. 06/2010 	• Not applicable	 Reputable waste collector should be employed to remove municipal solid waste regularly; Recycling companies should be arranged to collect the recycled waste as required; Requirements given in the Code of Practice on Packaging, Labelling and Storage of Chemical Wastes should be followed; A trip-ticket system should be operated to monitor all movements of chemical wastes, which would be collected by a licensed collector to a licensed facility; Chemical waste should be recycled as far as possible; and Regular inspection and monitoring of floating refuse will be conducted by MD's contractor, and waste collection and disposal will be arranged as required 	• No adverse residual impact anticipated

Sensitive Receivers / Assessment Points	Impact Prediction Results	Key Relevant Standards/Criteria	Extents of Exceedance (Without Mitigation)	Impact Avoidance Measures/ Mitigation Measures
Land Contamination		Stundul us, Criteriu	(Without Withgation)	I I
Construction workers	• 15 potentially contaminated sites have been	• EIAO-TM Section 3	• The extent of the	• Supplementary CAP will be submitted to EPD for
and future users within the Project	identified. When site access is available, environmental site investigation (SI) will be carried out to determine the extent of the contamination, if any.	 (Potential Contaminated Land Issues) of Annex 19 "Guidelines for Assessment of Impact on Sites of Cultural Heritage and Other Impacts" Guidance Note for Contaminated Land Assessment and Remediation Guidance Manual for Use of Risk-based Remediation Goals for Contaminated Land Management Practice Guide for Investigation and Remediation of 	contamination of 15 potentially contaminated sites if any, will be determined when site access is available and SI works will be carried out.	 endorsement before the commencement of environmental SI; Following the completion of SI and lab testing works, a CAR would be prepared to present the findings of the SI and evaluate the level and extent of potential contamination; If potential contamination is identified and remediation actions are required, a RAP will be prepared for submission to EPD; and A Remediation Report (RR) would also be prepared to demonstrate that the clean-up works are adequate.
Hazard to Life		Contaminated Land		
Construction Phase				
Population in the vicinity of the Project	 The societal risk for use of explosives, overnight storage of explosives and transport of explosives are within the "ALARP" region separately; The individual risk complies with the criterion of Annex 4 of the EIAO-TM; The overall societal risk lies within the "ALARP" region; and Tai Lam Chung No.2 Chlorination Station will be delisted from Potentially Hazardous Installations Register by the time when the construction works commence and thus risk during the construction phase is not anticipated. 	 Annex 4 of the EIAO-TM Practice Note for Authorized Persons and Registered Structural Engineers – Control of Blasting (APP-72) Guidance Note No. GN 8 How to Apply for a Mode A Store Licence for Storage of S1DG (Blasting Explosives) Guidance Note No. GN 2 Approval of an Explosives Delivery Vehicle Guidance Note No. GN 3 Application and Handling of a Conveyance Permit 	• Not applicable	 The truck should be designed and improved to reduce the amount of combustibles in the cabin. The fuel carried in the fuel tank should also be minimized to reduce the duration of any fire; The accident frequency of the explosive truck should be minimized through the implementation of a defensive driving attitude and a dedicated training programme for both driver and his attendants which includes regular briefing sessions. Moreover, drivers should be selected based on good safety record and provided with regular medical checks; The required quantity of explosives should only be transported for a particular blast to avoid any unused explosives send back to the magazine; The contractor should combine the explosive deliveries for a given work area as far as practicable; A minimum headway between two consecutive truck convoys of 10 minutes should be maintained whenever practicable; To reduce the explosive truck fire involvement frequency, a better emergency response and training should be implemented to ensure adequate fire extinguishers are used and attempt is made to evacuate the area of the incident or securing the explosive load if possible. All explosive vehicles should also be equipped with bigger capacity aqueous film forming forma (AFFF)-type extinguishers; Each blasting activities including storage and transport of explosives should address different alert security level to reduce opportunity for arson or deliberate initiation of explosives; Follow good practices listed in Practice Note for Authorized Persons and Registered Structural Engineers – Control of Blasting (APP-72), "Guidance Note No. GN 2

 Residual Impacts (After Implementation of Mitigation Measures)

 • No adverse residual impact anticipated

• No adverse residual impact anticipated

Sensitive Receivers / Assessment Points	Impact Prediction Results	Key Relevant Standards/Criteria	Extents of Exceedance (Without Mitigation)	Impact Avoidance Measures/ Mitigation Measures
				 Note No. GN 3 Application and Handling of a Conveyance Permit"; and Formulate a Hazard Management Plan with a view to aligning the understanding of the risk of the three projects (i.e. Route 11 (R11), Tuen Mun Bypass (TMB) and Lam Tei Underground Quarrying (LTUQ)) so that all the working populations at Lam Tei Quarry area, which includes the workforce induced under the construction and operational stage of three projects, could be considered as on-site populations in the QRA for all the three projects. The measures stipulated in the Hazard Management Plan may include, but not limited to, the adjustment of the blasting schedules of the three projects to minimize the potential cumulative impact, provision of common trainings and drills to the workforce of all the three projects, etc. The Hazard Management Plan, which would be agreed among the three projects, would be submitted to EPD for agreement prior to the tender invitation of construction phases of R11, TMB and LTUQ, whichever is earlier.
Operational Phase Population in the vicinity of the Project	 No potential risk identified since it does not involve any use of explosives Tai Lam Chung No.2 Chlorination Station will be delisted from Potentially Hazardous Installations Register by the time when the construction works commence and thus risk 	• Annex 4 of the EIAO-TM	Not applicable	No mitigation measure is required
	during the operational phase is not anticipated			
Ecology				
Construction Phase	. Hebitet lass	Armon 9 and Armon 16 af	A Natamaliashla	
likely to be impacted by the Project	 Habitat loss Permanent loss of around 0.16ha of backshore, 257m of channel, 24.60ha of developed area, 17.54ha of mixed woodland, 91m of natural coastline, 13.93ha of plantation, 4.1ha of seabed, 122m of seawall, 16.47ha of shrubland/grassland and 164m of watercourse; and Temporary loss of 0.09ha of backshore, 90m of channel, 16.85ha of developed area, 6.54ha of mixed woodland, 298m of natural coastline, 5.88ha of plantation, 13ha of sea, 49m of seawall and 5.72ha of shrubland/grassland. Harm/Mortality to species of conservation importance/wildlife Potential direct impact to five flora species of conservation importance (including Aquilaria sinensis, Diospyros vaccinioides, Gnetum luofuense, Ixonanthes reticulata and Nepenthes mirabilis) recorded within the aboveground works area; and Potential direct impact to one fauna species of conservation importance of relatively low mobility (Hong Kong Cascade Frog). Impact resulting from terrestrial and marine habitat fragmentation; Construction disturbance (e.g. dust, light glare, noise and marine traffic of works vessels) to 	• Annex 8 and Annex 16 of EIAO-TM	• Not applicable	 Locate an aboveground works areas outside recognized sites of conservation importance (such as Tai Lam Country Park, "Conservation Area" and Siu Lang Shui Site of Special Scientific Interest), important habitats (Fung Shui Woodlands in So Kwun Wat, Siu Lang Shui Butterfly Habitat and Ma Wan Egretry, Day Roost and Night Roost) and roosting grounds (Tai Lam Chung Catchwater Tunnel Nos. 1, 5, 6, 7 and 8) to avoid direct impact on them; Avoid reclamation in North Lantau; Adopt tunnelling design if practicable (e.g. within Tai Lam Country Park), refinement/shifting the alignment to minimize mixed woodland loss and slope cutting, maximization of haul road extent overlapping with the main alignment and minimize reclamation footprint in Tsing Lung Tau to minimize habitat loss; Select habitat edges as aboveground works areas, maximize the proportion and extent of the tunnel sections and adopt considerable length of viaduct section of the main alignment of the Project to minimize habitat fragmentation; Raise the gradient of and elevate the viaduct above the eastern patch of Ching Uk Tsuen Fung Shui Woodland to minimize direct injury/mortality to species of conservation importance (i.e. <i>Ixonanthes reticulata</i>); Provide a 7-metre gap between the viaduct above the eastern patch of Ching Uk Tsuen Fung Shui Woodland to minimize shading impact on it; Direct artificial lighting towards areas with necessity of lighting only and away from natural habitats at and immediately outside TLCP to minimize light glare impact; Adopt the mitigation measures listed in Section 5 to minimize water quality impacts;

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f , 1 s a g 7 n e t f n e t f n e t f	•	No adv	erse residual impa	ct is anticipated	

Assessment Forms Standards/Criteria (Without Witigation) habitats, wildlife (including species of conservation importance), roosting grounds (especially bat roosts inside Tai Lam Chung Catchwater Tunnel Nos. 1, 5, 6, 7 and 8) Adopt good site practice (e.g. confine works within construction site boundary) to minimize indirect disturbance; Adopt mitigation measures listed in Section 5 to minimize groundwater infiltration and site runoff; Adopt good site practice (e.g. confine works within construction site boundary) to minimize indirect disturbance; Adopt mitigation measures listed in Section 5 to minimize groundwater infiltration and site runoff; Adopt mitigation and site runoff; 	
 conservation importance), roosting grounds (especially bat roosts inside Tai Lam Chung Catchwater Tunnel Nos. 1, 5, 6, 7 and 8) 	
 (especially bat roosts inside Tai Lam Chung Catchwater Tunnel Nos. 1, 5, 6, 7 and 8) Adopt mitigation measures listed in Section 5 to minimize groundwater infiltration and site runoff: 	
Catchwater Tunnel Nos. 1, 5, 6, 7 and 8)	
ground water initiation and site runon,	
Ground-borne vibration impact to Tai Lam Maximise distance between the tunnelling works and the bat	
Chung Catchwater Tunnel Nos. 1, 5, 6,7 and 8; roosts to minimize ground-borne vibration impact on the	
• Light glare impact; identified bat roosts;	
• Impact on quality of terrestrial waterbodies (e.g.	
surface runoff) and wildlife therein and in the	
Croundwater infiltration/drawdown impact:	
• Impact on recognized sites of conservation	
• Control charge weight and continuous monitoring on ground-	
• Tai Lam Country Park borne vibration at Tai Lam Chung Catchwater Tunnel Nos. 1,	
• "Conservation Area" 5, 6, 7 and 8 to minimize disturbance to bat roosts, and conduct	
 Siu Lang Shui Site of Special Scientific ecological monitoring on the bat roost usage and bats; 	
Interest Conduct continuous adaptive review on the Alert, Action and	
• Impact on important habitats (i.e. Siu Lang Shui)	
Butterfly Habitat and Ma Wan Egretry, Day Depart and Night Departy.	
• Divert sections of watercourses falling within the aboveground	
importance other than cave-dwelling bats inside	
catchwater tunnels and marine species of	
• Conduct compensatory woodland planting to mitigate the area	
• Indirect marine water quality impact of mixed woodland to be permanently lost and temporarily	
• Disturbance due to marine traffic works vessels lost, the feasibility of reinstatement of the latter of which	
should be confirmed unfeasible to be reinstated during the	
detailed design phase in advance;	
• Conduct pre-construction detailed vegetation survey, submit a detailed preservation transplantation and/or companyatory	
planting plan for the flora species of conservation importance	
anticipated to be directly impacted, including but not limited to	
Aquilaria sinensis, Diospyros vaccinioides, Gnetum luofuense,	
Ixonanthes reticulata and Nepenthes mirabilis, at detailed	
design stage and conduct preservation, transplantation and/or	
compensatory planting, as well as monitoring of plant of	
species of conservation importance where applicable and fossible:	
Conduct pre-construction survey of aquatic and water	
dependent fauna species of conservation importance at the	
section of watercourses to be directly impacted (i.e. the ditch,	
W4, W22, W23 and W24), including but not limited to Hong	
Kong Cascade Frog, and submit translocation plan, conduct	
translocation of aquatic and water-dependent fauna species of	
conservation importance and/or monitoring of aquatic and	
where necessary:	
• Conduct detailed reconnaissance dive survey to confirm the	
feasibility of coral translocation: and	
• Enhance the seawall with ecological features to increase the	
overall ecological value, integrity and complexity; and	
• Monitoring of the effectiveness of mitigation measures on	
groundwater infiltration.	
Operational Phase Englacingly recovering to the first state of the state of	
Likely to be impacted vibration impact:	nticipated
by the Project Light glare impact:	
• Terrestrial and marine habitat fragmentation	
impact; the same method and frequency as the baseline monitoring. In	

Sensitive Receivers / Assessment Points	Impact Prediction Results	Key Relevant Standards/Criteria	Extents of Exceedance (Without Mitigation)	Impact Avoidance Measures/ Mitigation Measures]
	 Barrier effect to the flight-lines of and loss of foraging habitats of ardeids; Roadkill and bird collision impacts; Adverse water quality impact on terrestrial and marine habitats; Shading effect on the eastern patch of Ching Uk Tsuen Fung Shui Woodland; Impact on recognized sites of conservation importance, important habitats, roosting grounds and terrestrial fauna species of conservation importance other than cavedwelling bats: Tai Lam Country Park; Fung shui wood in So Kwun Wat; Siu Lang Shui Butterfly Habitat; Ma Wan Egretry, Day Roost and Night Roost; Terrestrial fauna species of conservation importance other than cave-dwelling bats; and Marine species of conservation importance (i.e. corals) 			 addition, within one year from the commencement of operational phase, conduct monitoring on ground-borne vibration and roosting bats for Tai Lam Chung Catchwater Tunnel Nos. 1, 5, 6, 7 and 8 for at least 9 months; Direct artificial lighting towards areas with necessity of lighting only and away from natural habitats to minimize light glare impact; Adopt mitigation measures in "Water quality" section to mitigate water quality impact; Monitoring of compensatory woodland; Monitoring of flora species of conservation importance to be preserved, transplanted and/or compensated, if transplantation and/or compensatory planting of flora species of conservation importance is/are confirmed necessary; Monitoring of aquatic and water-dependent fauna species of conservation importance (e.g. Hong Kong Cascade Frog) to be translocated, if translocation is necessary; Adopt tinted materials and superimposing dark patterns or strips on noise barriers; and Monitoring of effectiveness of mitigation measures on groundwater infiltration 	
Fisheries		•	l		
Construction Phase Fisheries resources and habitats likely to be impacted by the Project	 Permanent loss of 4.1ha of fishing ground and temporary loss of 13ha fishing ground; Indirect impact on marine works required for the reclamation of landing area for Tsing Lung Tau including dredging and filling activities that may impact water quality; and Indirect impacts on underwater noise 	• Annex 9 and Annex 17 of EIAO-TM	• Not applicable	• Follow mitigation measures, good practices and guidelines to minimise water quality impacts.	•
Operational Phase		•	•	·	_
Fisheries resources and habitats likely to be impacted by the Project	 Permanent loss of 4.1ha fishing ground; and No adverse fisheries impact on change of hydrodynamics and deterioration of water quality induced by the footprint of the landing area for Tsing Lung Bridge at Tsing Lung Tau is identified 	• Annex 9 and Annex 17 of EIAO-TM	Not applicable	No specific mitigation measure is required	•
Landscape and Visua	I Impact				
Construction Phase	• Courses of impact include security diam.	• TM ELAO America 2, 10	• Not and include	• Tree processition	
Existing Trees, Landscape Resources (LRs) and Landscape Character Areas (LCAs) and Visually Sensitive Receivers (VSRs)	 Sources of impact include construction works, temporary works and night-time lighting; Around 5,000 out of 11,982 nos. of existing trees will be felled; Substantial adverse impacts on LRs including Secondary Woodlands in So Kwun Wat and Shrublands in North Lantau; Moderate / Substantial adverse impacts on LRs including Secondary Woodlands in Lam Tei, and Shrublands in So Kwun Wat; Moderate adverse impacts on LRs including Plantations in Lam Tei, So Kwun Wat, and North Lantau, Carriageway and Roadside planter in Tsing Lung Tau and North Lantau; 	 TM-EIAO Annexes 3, 10, 11, 18, 20 and 21 EIAO (Cap. 499. S16) and EIAO-TM Annexes 3, 10, 11, 18, 20 and 21 EIAO Guidance Note 8/2010 Preparation of Landscape and Visual Impact Assessment HKPSG Chapters 4, 10 and 11 Protection of Endangered Species of Animals and Plants Ordinance (Cap.586) 	• Not applicable	 Tree preservation; Tree transplanting; Tree and woodland compensation with 1:1 compensatory ratio Landscape reinstatement; Lighting control; Erection of screen hoarding; and Optimisation of construction areas. 	•

Re	esidual Imp litigation Me	acts asures	(After	Implementati	on of
•	No adverse	residua	al impac	t anticipated	
•	Not applicat	ole			
			_		
,	Residual im	pacts a	re consi	idered acceptab	le.
•	Substantial	advers	e impa	cts on LRs inc	luding
	Shrublands i	in Nort	th Lanta	u.	
•	Moderate a	dverse Wood	impac	ts on LRs inc	luding
	Kwun Wat	Planta	ations in	n Lani Tei ai 1 Lam Tei. So	Kwun
	Wat, and No	orth La	ntau, Sł	nrublands in So	Kwun
	Wat, Carriag	geway	and roa	dside planter in	Tsing
	Lung Tau	and N	North L	Lantau; Plantat	ions /

Mixed Woodlands in Tsing Lung Tau;.
Slight adverse impacts on LRs including Watercourses in Lam Tei, Developed Areas in Lam Tei, So Kwun Wat, Tsing Lung Tau and North Lantau, Carriageway and roadside planter in So Kwun Wat and Secondary

Sensitive Receivers /	Impact Prediction Results	Key Relevant	Extents of Exceedance	Impact Avoidance Measures/ Mitigation Measures
Assessment Points	-	Standards/Criteria	(Without Mitigation)	
	Tau;	and Town Planning		
	• Moderate / Slight adverse impacts on LRs	(Amendment) Ordinance		
	including Watercourses in Lam Tei, Developed	(Cap. 131)		
	Areas in Tsing Lung Tau and North Lantau, and	• Country Parks Ordinance		
	Secondary Woodlands in North Lantau;	(Cap. 208)		
	• Slight adverse impacts on LRs including	• The Forests and Countryside		
	Carriageway and Roadside Planter in So Kwun	Ordinance (Cap. 96) –		
	wai,	Cutting Duming or		
	• Slight / Insubstantial adverse impacts on LRs	Destruction of Trees		
	Kwup Wot:	Growing Plants and Forests		
	• Insubstantial advarsa impacts on LPs including	on Government L and		
	• Insubstantial adverse impacts on EKS including Watercourses in So Kwan Wat. Tsing Lung Tau	• ETWB TC(W) No $5/2020 -$		
	and North Lantau Secondary Woodlands in	Registration and		
	Tsing Lung Tau Shrublands in Tsing Lung Tau	Preservation of Old and		
	and Seawater Body and Shorelines at Ha Pang	Valuable Trees		
	Fairway:			
	• Substantial adverse impacts on LCAs including			
	Tai Lam Country Park Upland Landscape, Tai			
	Lam Chung Foothill Landscape and Ng Kwu			
	Leng Peninsula Landscape;			
	• Moderate / Substantial adverse impacts on			
	LCAs including Lam Tei Upland Landscape;			
	• Moderate adverse impacts on LCAs including			
	Lam Tei Rural Landscape, Tai Lam Chung			
	River Valley Landscape;			
	• Moderate / Slight adverse impacts on LCAs			
	including So Kwun Wat Village Landscape,			
	Tuen Mun Road Urban Corridor Landscape,			
	Ising Lung Iau Urban Landscape and North			
	Slight advance imposts on LCAs including Lam			
	 Slight adverse impacts on LCAs including Lain Tai Upland Fringe Landscape: 			
	 Slight / Insubstantial advarsa impacts on I CAs 			
	including Lam Tei Rural Fringe Landscape			
	 Insubstantial adverse impacts on I CAs 			
	including To Hang Tung Foothill Landscape.			
	North Lantau Fa Peng Teng Upland Landscape			
	and Ha Pang Fairway Maritime Landscape;			
	• Substantial adverse impacts on VSRs including			
	Future Residents of Potential Residential			
	Development at Brownfield Clusters in Lam Tei			
	North and Nai Wai, Trail Walkers on			
	MacLehose Trail Section 10 (West and East),			
	Vehicle Iravellers on Iuen Mun Road,			
	Staff at Harrow International School Hong			
	Kong Residents of Aegean Coast Residents of			
	Avignon Vehicle Travellers on Castle Peak			
	Road – So Kwun Wat, Vehicle Travellers and			
	Pedestrians on So Kwun Wat Tsuen Road,			
	Residents of So Kwun Wat Tsuen, Residents of			
	So Kwun Wat San Tsuen, Visitors to Glorious			
	Praise Fellowship (Hong Kong) Treatment			
	Centre, Vehicle Travellers on Siu Lam Road,			
	Trail Walkers on Tai Lam Chung Reservoir			
	Subsidiary Dam at Siu Lam Road, Residents of			
	ratatian Coast, Residents of Sill Lam, Irail Walkers and Cyclists on Tai Lam Chung			
	Reservoir Main Dam Pedestrians on Footbridge			
	Reservoir main Dain, redestrians on rootolluge		1	

Woodlands in North Lantau.

- Insubstantial adverse impacts on LRs including Watercourses in So Kwun Wat, Tsing Lung Tau and North Lantau, Secondary Woodlands in Tsing Lung Tau, Shrublands in Tsing Lung Tau and Seawater Body and Shorelines at Ha Pang Fairway.
- Substantial adverse impacts on LCAs including Ng Kwu Leng Peninsular Landscape.
- Moderate adverse impacts on LCAs including Lam Tei Rural Landscape, Lam Tei Upland Landscape, Tai Lam Country Park Upland Landscape and Tai Lam Chung Foothill Landscape.
- Slight adverse impacts on LCAs including Lam Tei Rural Fringe Landscape, Lam Tei Upland Fringe Landscape, So Kwun Wat Village Landscape, Tuen Mun Road Urban Corridor Landscape, Tsing Lung Tau Urban Landscape and North Lantau Highway Corridor Landscape.
- Insubstantial adverse impacts on LCAs including To Hang Tung Foothill Landscape, North Lantau Fa Peng Teng Upland Landscape and Ha Pang Fairway Maritime Landscape.
- Substantial adverse impacts on VSRs including Residents of Parkland Villas, Fu Tai Estate, Lo Fu Hang, Sherwood, Avignon, So Kwun Wat Tsuen, Kwun Wat San Tsuen, Palatial Coast, Siu Lam and Sea Crest Villa Phase 4; Vehicle Travellers and Pedestrians on So Kwun Wat Tsuen Road, Trail Walkers on MacLehose Trail Section 10 (East), Trail Walkers on Tai Lam Chung Reservoir Subsidiary Dam at Siu Lam Road, Trail Walkers and Cyclists on Tai Lam Chung Reservoir Main Dam, Pedestrians on Footbridge over Tai Lam Chung River, Pedestrians on Footbridge across Castle Peak Road - Tsing Lung Tau, Travellers in Tsing Lung Tau Ferry Pier, Travellers in Ma Wan Public Pier, Maritime Travellers in Ha Pang Fairway.
- Moderate adverse impacts on VSRs including Residents of Fuk Hang Tsuen, Tsoi Yuen Tsuen, The Bloomsway, Hong Kong Gold Coast, Aegean Coast, Tai Lam Chung Tsuen, Bellagio, Ocean Pointe, Hong Kong Garden, Vistacove, L'Aquatique and Park Island Vehicle Travellers on Kong Sham Western Highway (Southbound), Vehicle Travellers on Yuen Long Highway (Westbound), Future Residents of Potential Residential Development at Brownfield Clusters in Lam Tei North and Nai Wai, Trail Walkers on MacLehose Trail Section 10 (West), Vehicle Travellers on Tuen Mun Road, Students and Staff at Harrow International School Hong Kong, Vehicle Travellers on Castle Peak Road - So Kwun Wat, Visitors to Glorious Praise Fellowship (Hong Kong) Treatment Centre, Vehicle

Sensitive Receivers /	Impact Prediction Results	Key Relevant	Extents of Exceedance	Impact Avoidance Measures/ Mitigation Measures
Assessment rounts	over Tai Lam Chung River Trail Walkers on	Standarus/Criteria	(without withgation)	
	Summit of Hill 141 Posidents of Tai Lam			
	Chung Tsuen Residents of Hong Kong Garden			
	Vistacove and L'Auatique Students and Staff at			
	Hong Kong Customs College Staff and Visitors			
	at Tai Lam Correctional Institution Vehicle			
	Travellers on North Lantau Highway			
	(Westbound) and Vehicle Travellers at Lantau			
	Link Toll Plaza:			
	 Moderate adverse impacts on VSRs including 			
	Residents of Parkland Villas, Residents of Fu			
	Tai Estate. Residents of Lo Fu Hang. Vehicle			
	Travellers on Yuen Long Highway (Eastbound			
	and Westbound), Residents of Fuk Hang Tsuen,			
	Residents of The Sherwood, Vehicle Travellers			
	on Kong Sham Western Highway (Southbound),			
	Residents of Tsoi Yuen Tsuen, Residents of			
	Hong Kong Gold Coast, Students and Staff at			
	PLK Women's Welfare Club Western District			
	Fung Lee Pui Yiu Primary School and S.T.F.A.			
	Lee Kam Primary School, Students and Staff at			
	Chu Hai College of Higher Education, Vehicle			
	Travellers and Pedestrians on Castle Peak Road			
	– Tai Lam, Trail Walkers at South of To Hang			
	Tung, Vehicle Travellers on Tuen Mun Road			
	(Westbound and Eastbound), Residents of			
	Bellagio and Ocean Pointe, Venicle Travellers			
	Lung Tau (Easthound) Pedestrians on			
	Footbridge across Castle Peak Road - Tsing			
	Lung Tau Travellers in Tsing Lung Tau Ferry			
	Pier. Travellers in Sham Tseng Public Pier.			
	Residents of Sea Crest Villa Phase 4. Trail			
	Walkers on Summit of Fa Peng Teng, Travellers			
	in Ma Wan Public Pier, Vehicular Travellers on			
	Kap Shui Mun Bridge, Visitors at Sunny Bay			
	Promenade, Maritime Travellers in Ha Pang			
	Fairway, Residents of Park Island, Future Users			
	at Planned Sunny Bay Reclamation Area and			
	Future Vehicle Travellers on Planned Road P1;			
	and			
	• Negligible adverse impacts on VSRs including			
	Trail Walkers on Fu Tei Country Trail and Lam			
One pational Diago	1 et Irrigation Keservoir			
Existing Trees	• Substantial advance imposts on LDs is shall	• TM ELAO America 2 10	• Not applicable	Companyatory trac planting:
Landscape Resources	- Substantial adverse impacts on LKS including Secondary Woodlands in So Kyun Wat and	11 18 20 and 21		Ontimisation groop provision on structure:
(LRs) and Landscape	Shrublands in North I antau	FIAO Guidance Note		Landscape integration and careen planting:
Character Areas	 Moderate / Substantial adverse impacts on I Rs. 	8/2010 Preparation of		Landscape integration and screen planting, Architectural assthatic design of built structurasy and
(LCAs) and Visually	including Secondary Woodlands in Lam Tei and	Landscane and Visual		Arcintectural aestieuc design of built structures; and Aesthetic design on poise hermier
Sensitive Receivers	Shruhlands in So Kwun Wat	Impact Assessment		• Aesthetic design on noise barrier.
(VSRs)	• Moderate adverse impacts on LRs including	HKPSG Chapters 4 and 10		
	Plantations in Lam Tei. Plantations in So Kwun	 Protection of Endangered 		
	Wat and Carriageway and roadside planter in	Species of Animals and		
	Tsing Lung Tau and Plantations in North	Plants Ordinance (Cap. 586)		
	Lantau; Plantations / Mixed Woodlands in Tsing	• ETWB TC(W) No. 29/2004		
	Lung Tau;;	- Registration of Old and		
	• Moderate / Slight adverse impacts on LRs	Valuable Trees, and		
	including Watercourses in Lam Tei, Developed	Guidelines for their		
	Areas in Tsing Lung Tau and North Lantau, and	Preservation		

Travellers on Siu Lam Road, Vehicle Travellers and Pedestrians on Castle Peak Road - Tai Lam, Trail Walkers on Summit of Hill 141 Trail Walkers at South of To Hang Tung, Students and Staff at Hong Kong Customs College, Staff and Visitors at Tai Lam Correctional Institution, Vehicle Travellers on Tuen Mun Road (Westbound), Vehicle Travellers and Pedestrians on Castle Peak Road - Tsing Lung Tau (Eastbound), Vehicle Travellers on Tuen Mun Road (Eastbound), Travellers in Sham Tseng Public Pier, Vehicle Travellers on North Lantau Highway (Westbound), Trail Walkers on Summit of Fa Peng Teng, Vehicle Travellers at Lantau Link Toll Plaza, Vehicular Travellers on Kap Shui Mun Bridge, Visitors at Sunny Bay Promenade and Future Users at Planned Sunny Bay Reclamation Area;

- Slight adverse impacts on VSRs including Vehicle Travellers on Yuen Long Highway (Eastbound), Students and Staff at PLK Women's Welfare Club Western District Fung Lee Pui Yiu Primary School and S.T.F.A. Lee Kam Primary School, Students and Staff at Chu Hai College of Higher Education and Future Vehicle Travellers on Planned Road P1; and
- Insubstantial adverse impacts on VSRs including Trail Walkers on Fu Tei Country Trail and Lam Tei Irrigation Reservoir.

- Slight adverse impacts on LRs including Secondary Woodlands in Lam Tei, Plantations in Lam Tei, So Kwun Wat, and North Lantau, and Watercourses in Lam Tei; Plantations / Mixed Woodlands in Tsing Lung Tau;.
- Insubstantial adverse impacts on LRs including Developed Areas in Lam Tei, So Kwun Wat, Tsing Lung Tau and North Lantau; Shrublands in So Kwun Wat; Watercourses in So Kwun Wat, Tsing Lung Tau and North Lantau; Carriageway and roadside planter in So Kwun Wat, Tsing Lung Tau and North Lantau;

[•] Moderate adverse impacts on LRs including Secondary Woodlands in So Kwun Wat and Shrublands in North Lantau.

ent Points Standards/Criteria (Without Mitigation) Secondary Woodlands in North Lantau; • Land Administration Office, Lands Department Practice • Land Administration Office, Lands Department Practice • Slight adverse impacts on LRs including Carriageway and roadside planter in So Kwun Wat: • Note Nos. 7/2007 and 7/2007A Tree Preservation	
 Secondary Woodlands in North Lantau; Slight adverse impacts on LRs including Carriageway and roadside planter in So Kwun Wat: Land Administration Office, Lands Department Practice Note Nos. 7/2007 and 7/2007A Tree Preservation 	
Slight adverse impacts on LRs including Carriageway and roadside planter in So Kwun Wat: So Kwun So Kwun T/2007A Tree Preservation	
Carriageway and roadside planter in So Kwun Wat: 7/2007 A Tree Preservation	
Wat' //UU/A Tree Preservation	
Still (In het d'al al and the D and Theo Domand	
• Slight / Insubstantial adverse impacts on LRs and Tree Removal	
Kyun Wat	
Insubstantial adverse impacts on LBs including Projects	
Watercourses in So Kwun Wat. Tsing Lung Tau	
and North Lantau. Secondary Woodlands in	
Tsing Lung Tau, Shrublands in Tsing Lung Tau	
and Seawater Body and Shorelines at Ha Pang	
Fairway;	
• Substantial adverse impacts on LCAs including	
Tai Lam Country Park Upland Landscape, Tai	
Lam Chung Foothill Landscape and Ng Kwu	
Leng Peninsular Landscape.	
• Moderate / Substantial adverse impacts on	
• Moderate adverse imposts on LCAs including	
• Moderate adverse impacts on LCAS including Lam Tai Rural Landscape and Tai Lam Chung	
River Valley Landscape	
 Moderate / Slight adverse impacts on LCAs 	
including So Kwun Wat Village Landscape.	
Tuen Mun Road Urban Corridor Landscape,	
Tsing Lung Tau Urban Landscape and North	
Lantau Highway Corridor Landscape;	
• Slight adverse impacts on LCAs including Lam	
Tei Upland Fringe Landscape;	
• Slight / Insubstantial adverse impacts on LCAs	
including Lam Tei Rural Fringe Landscape.	
• Insubstantial adverse impacts on LCAs	
North Lantau Fa Peng Teng Unland Landscape	
and Ha Pang Fairway Maritime Landscape	
 Substantial adverse impacts on VSRs including 	
Trail Walkers on MacLehose Trail Section 10	
(West), Residents of Hong Kong Garden,	
Vistacove and L'Aquatique;	
• Moderate adverse impacts on VSRs including	
Residents of Parkland Villas, Residents of Fu	
Tai Estate, Residents of Lo Fu Hang, Residents	
of Fuk Hang Isuen, Residents of The Sherwood, Desidents of Tasi Vuen Teven, Future Desidents	
of Potential Residential Development at	
Brownfield Clusters in Lam Tei North and Nai	
Wai, Vehicle Travellers on Tuen Mun Road,	
Residents of The Bloomsway, Students and	
Staff at Harrow International School Hong	
Kong, Residents of Aegean Coast, Residents of	
Avignon, Vehicle Travellers on Castle Peak	
Road – So Kwun Wat, Vehicle Travellers and	
Pedestrians on So Kwun wat Isuen Koad, Iraii Walkers on MaoI abose Trail Section 10 (Fast)	
Residents of So Kwun Wat Tsuen Residents of	
So Kwun Wat San Tsuen, Visitors to Glorious	
Praise Fellowship (Hong Kong) Treatment	
Centre, Vehicle Travellers on Siu Lam Road,	
Trail Walkers on Tai Lam Chung Reservoir	
Subsidiary Dam at Siu Lam Road, Residents of	

- Secondary Woodlands in Tsing Lung Tau and North Lantau, Shrublands in Tsing Lung Tau, Seawater Body and Shorelines at Ha Pang Fairway.
- Moderate adverse impacts on LCAs including Ng Kwu Leng Peninsular Landscape.
- Slight adverse impacts on LCAs including Lam Tei Rural Landscape, Lam Tei Upland Landscape, Tai Lam Country Park Upland Landscape, Tai Lam Chung Foothill Landscape and Tai Lam Chung River Valley Landscape.
- Insubstantial adverse impacts on LCAs including Lam Tei Rural Fringe Landscape, Lam Tei Upland Fringe Landscape, So Kwun Wat Village Landscape, Tuen Mun Road Urban Corridor Landscape, Tsing Lung Tau Urban Landscape, To Hang Tung Foothill Landscape, North Lantau Fa Peng Teng Upland Landscape, Ha Pang Fairway Maritime Landscape and North Lantau Highway Corridor Landscape.
- Substantial adverse impacts on VSRs including Residents of So Kwun Wat San Tsuen.
- Moderate / Substantial adverse impacts on VSRs including Residents of Sea Crest Villa Phase 4.
- Moderate adverse impacts on VSRs including Residents of Fu Tai Estate, Lo Fu Hang, The Sherwood, So Kwun Wat Tsuen, Palatial Coast Siu Lam, Tai Lam Chung Tsuen, Hong Kong Garden, Vistacove, L'Aquatique and Park Island; Vehicle Travellers and Pedestrians on So Kwun Wat Tsuen Road, Trail Walkers on MacLehose Trail Section 10 (East), Vehicle Travellers on Siu Lam Road, Trail Walkers on Tai Lam Chung Reservoir Subsidiary Dam at Siu Lam Road, Trail Walkers and Cyclists on Tai Lam Chung Reservoir Main Dam, Pedestrians on Footbridge over Tai Lam Chung River, Vehicle Travellers and Pedestrians on Castle Peak Road - Tsing Lung Tau (Eastbound), Pedestrians on Footbridge across Castle Peak Road - Tsing Lung Tau, Travellers in Tsing Lung Tau Ferry Pier, Trail Walkers on Summit of Fa Peng Teng, Travellers in Ma Wan Public Pier and Maritime Travellers in Ha Pang Fairway.
- Slight adverse impacts on VSRs including Residents of Parkland Villas, Fuk Hang Tsuen, Tsoi Yuen Tsuen, The Bloomsway, Hong Kong Gold Coast, Aegean Coast, Avignon, Bellagio and Ocean Pointe; Vehicle Travellers on Yuen Long Highway (Eastbound and Westbound), Vehicle Travellers on Kong Sham Western Highway (Southbound), Future Residents of Potential Residential Development at Brownfield Clusters in Lam Tei North and Nai Wai, Trail Walkers on MacLehose Trail Section 10 (West), Vehicle Travellers on Tuen Mun Road, Students and Staff at Harrow International School Hong Kong, Vehicle

Sensitive Receivers /	Impact Prediction Results	Kev	Relevant	Extents of Exceedance	Impact Avoidance Measures/ Mitigation Measures
Assessment Points	I COLORADO DE C	Standards/Criteria		(Without Mitigation)	I man and a second s
	Palatial Coast, Residents of Siu Lam, Trail				
	Walkers and Cyclists on Tai Lam Chung				
	Reservoir Main Dam, Pedestrians on Footbridge				
	over Tai Lam Chung River, Vehicle Travellers				
	and Pedestrians on Castle Peak Road - Tai Lam,				
	Trail Walkers on Summit of Hill 141, Trail				
	Walkers at South of To Hang Tung, Residents of				
	Tai Lam Chung Tsuen, Students and Staff at				
	Hong Kong Customs College, Staff and Visitors				
	at Tai Lam Correctional Institution, Vehicle				
	Travellers on Tuen Mun Road (Westbound and				
	Eastbound), Residents of Bellagio and Ocean				
	Pointe, , Vehicle Travellers and Pedestrians on				
	Castle Peak Road – Tsing Lung Tau				
	(Eastbound), Pedestrians on Footbridge across				
	Castle Peak Road – Tsing Lung Tau, Travellers				
	in Tsing Lung Tau Ferry Pier, Travellers in				
	Sham Tseng Public Pier, Residents of Sea Crest				
	Villa Phase 4, Vehicle Travellers on North				
	Lantau Highway (Westbound), Trail Walkers on				
	Summit of Fa Peng Teng, Vehicle Travellers at				
	Lantau Link Toll Plaza, Travellers in Ma Wan				
	Public Pier, Vehicular Travellers on Kap Shui				
	Mun Bridge, Visitors at Sunny Bay Promenade,				
	Maritime Travellers in Ha Pang Fairway,				
	Residents of Park Island, Future Users at				
	Planned Sunny Bay Reclamation Area and				
	Future Vehicle Travellers on Planned Road P1;				
	• Insubstantial adverse impacts on VSRs				
	including Vehicle Travellers on Yuen Long				
	Highway (Eastbound), Vehicle Travellers on				
	Kong Sham Western Highway (Southbound),				
	Vehicle Travellers on Yuen Long Highway				
	(Westbound), Residents of Hong Kong Gold				
	Coast, Students and Staff at PLK Women's				
	Welfare Club Western District Fung Lee Pui				
	Yiu Primary School and S.T.F.A. Lee Kam				
	Primary School and Students and Staff at Chu				
	Hai College of Higher Education; and				
	• Negligible adverse impacts on VSRs including				
	Trail Walkers on Fu Tei Country Trail and Lam				
	Tei Irrigation Reservoir.				
Cultural Heritage					
Construction Phase					
Terrestrial	• No adverse impact on the sites of archaeological	Antiquities and M	onuments	Not applicable	• Testing including field scan, auger tests and test pit excavation
archaeology	interest identified within or near the Project; and	Ordinance (Cap. 53	3)		within the non-tested area of archaeological potential is
	• An area of archaeological potential at the east of	EIAO including EI	AO-TM		recommended to be conducted by an archaeologist who
	Area A at the lower slopes to the north of Lam	• Guidelines for	Cultural		obtains a licence under the Antiquities and Monuments
	Tei Quarry within the works area would require	Heritage Impact As	ssessment		Ordinance (Cap. 53); and
	further archaeological investigation to verify the				• AMO should be informed immediately in case of discovery of
	presence of any archaeological remains.				antiquities or supposed antiquities in the course of the project
					works for discussion of appropriate mitigation measures to be
					agreed by AMO before implementation by the project
					proponent to the satisfaction of AMO.

- Travellers on Castle Peak Road So Kwun Wat, Students and Staff at PLK Women's Welfare Club Western District Fung Lee Pui Yiu Primary School and S.T.F.A. Lee Kam Primary School, Visitors to Glorious Praise Fellowship (Hong Kong) Treatment Centre, Vehicle Travellers and Pedestrians on Castle Peak Road - Tai Lam, Trail Walkers on Summit of Hill 141, Trail Walkers at South of To Hang Tung, Students and Staff at Hong Kong Customs College, Staff and Visitors at Tai Lam Correctional Institution, Vehicle Travellers on Tuen Mun Road (Westbound and Eastbound), Travellers in Sham Tseng Public Pier, Vehicle Travellers on North Lantau Highway (Westbound), Vehicle Travellers at Lantau Link Toll Plaza, Vehicular Travellers on Kap Shui Mun Bridge, Visitors at Sunny Bay Promenade and Future Users at Planned Sunny Bay Reclamation Area.
- Insubstantial adverse impacts on VSRs including Trail Walkers on Fu Tei Country Trail and Lam Tei Irrigation Reservoir, Students and Staff at Chu Hai College of Higher Education and Future Vehicle Travellers on Planned Road P1.

• No adverse residual impact anticipated

Sonsitivo Dossivors /	Impact Prediction Desults	Koy Delevent	Extents of Exceedence	Impact Avoidance Massures / Mitigation Massures	Pasidual Imposts (After Implementation of
Assessment Points	Impact Frediction Results	Standards/Criteria	(Without Mitigation)	Impact Avoidance Measures/ Miligation Measures	Mitigation Measures)
Built heritage	 There is no Declared Monuments, Proposed Monuments, Graded Historic Buildings and Government Historic Sites. Former Perowne Barracks, Gurkha Temple, a grade 3 structure will require mitigation during the construction phase as it is in close proximity of earthworks (around 11m). 	 Antiquities and Monuments Ordinance (Cap. 53) EIAO including EIAO-TM Guidelines for Cultural Heritage Impact Assessment AMO Proposed Vibration Limits Proposed Grading and Graded Historic Buildings Classification 	Not applicable	 A condition survey be undertaken by qualified building surveyor or engineer prior and after the construction phase. The relevant works drawings and proposal shall be submitted to AMO for consideration; The Condition Survey Report for the graded historic building shall be submitted to AMO for comment before commencement and after construction activities. The locations of proposed monitoring points in the building should avoid damaging the historic fabric and agreed by the owner and Antiquities and Monuments Office (AMO). The contractor should implement the approved monitoring and precautionary measures; Any vibration and building movement induced from the construction works should be strictly monitored to ensure no disturbance and physical damages made to the heritage site during the course of works. Monitoring proposal for the heritage sites, including checkpoint locations, installation (3As) levels and frequency of monitoring should be submitted for AMO's consideration. The recommended 3As levels for Grade 3 heritage site are specified in the EM&A Manual; A buffer zone should be provided to separate the Former Perowne Barracks, Gurkha Temple building from the construction works. The buffer zone should be made at least 5m from the proposed works or if this is not possible as large as the site restrictions allow; Special attention should be paid to the heritage site to avoid adverse physical impact arising from the construction of the Project. Design proposal, method of works and choice of machinery will be targeted to minimize adverse impacts to the heritage site; Foundation information of the historic structure shall be verified on site if needed, sufficient lateral support should be provided and de-watering (if required) should be carried out with great cautions to control ground movement and change of ground water regime at the heritage site; and AMO should be informed immediately in case of discovery of buildings / structures both at-grade and u	No adverse residual impact anticipated
Marine archaeology	 19 anomalies were identified from geophysical surveys; In addition, due to shallow water depth along the coast, geophysical survey could not be conducted in this area. Therefore, it is proposed to dive every 50m along this area (i.e. 35 dive targets); and After consulting with Marine Department, it is recommended to conduct the marine diver survey when fencing off of the diving area could be safely implemented but prior to any reclamation works, i.e. during the detailed design stage. 	 Antiquities and Monuments Ordinance (Cap. 53) EIAO including EIAO-TM Guidelines for Cultural Heritage Impact Assessment 	• Not applicable	 Marine diver survey shall be conducted during the detailed design stage when fencing off can be implemented but prior to any reclamation works; Should there be any marine archaeological resources identified during the marine GI works and MAI, proper mitigation measures including but not limited to rescue excavation shall be proposed for agreement with AMO before the commencement of reclamation works.; If the marine ground investigation works is required prior to the diver survey, it shall be arranged to avoid all the anomalies identified by geophysical survey conducted, by allowing sufficient setback distance (around 50m) from the anomalies; Any marine GI works at the anomalies is required to be conducted after confirming their nature by MAI and seeking agreement with AMO; and In case antiquities or supposed antiquities are identified during 	No adverse residual impact anticipated

Sensitive Receivers / Assessment Points	Impact Prediction Results	Key Relevant Standards/Criteria	Extents of Exceedance (Without Mitigation)	Impact Avoidance Measures/ Mitigation Measures	
		Standards/ Criteria	(Without Mitigation)	the construction works, the works should be suspended, and the project proponent should notify AMO immediately for discussion of appropriate mitigation measures to be agreed by AMO before implementation by the project proponent to the satisfaction of AMO.	
Operational Phase		·			
Terrestrial archaeology, built heritage and marine archaeology	 Adverse impact to terrestrial archaeology, built heritage and marine archaeology is not anticipated. 	 Antiquities and Monuments Ordinance (Cap. 53) EIAO including EIAO-TM; Guidelines for Cultural Heritage Impact Assessment HKPSG Proposed Grading and Graded Historic Buildings Classification 	• Not applicable	No mitigation measure is required	

• No adverse residual impact anticipated