Civil Engineering and Development Department

Developments at Lau Fau Shan, Tsim Bei Tsui and Pak Nai Areas

Project Profile



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1. Basic Information

1.1 Project Title

1.1.1 Developments at Lau Fau Shan, Tsim Bei Tsui and Pak Nai Areas (hereinafter referred to as "the Project").

1.2 Purpose and Nature of Project

- 1.2.1 As set out in the Northern Metropolis (NM) Action Agenda promulgated in October 2023, the Lau Fau Shan, Tsim Bei Tsui (TBT) and Pak Nai (PN) areas (collectively referred to as Lau Fau Shan or LFS) will be an extension of the Hung Shui Kiu/Ha Tsuen New Development Area (HSK/HT NDA). Being the major source of new economic and housing land in the westernmost area of the NM, the extended HSK/HT NDA has an important role in driving the development of the High-end Professional Services and Logistics Hub¹.
- 1.2.2 As part of the extended HSK/HT NDA, the area of LFS is planned with the economic positioning for HSK/HT and the natural beauty of the LFS area in mind. With a development area of about 411 ha (partly overlapping with the Remaining Phase (RP) development of HSK/HT NDA), LFS can grow into a digital technology hub to complement the HSK/HT development, and develop into an eco-tourism destination for locals and tourists. The interface issues with HSK/HT NDA will be carefully reviewed in the Project.

1.3 Name of Project Proponent

1.3.1 The project proponent is West Development Office, Civil Engineering and Development Department (CEDD).

1.4 Location and Scale of Project and History of Site

The Project comprises the area of LFS and part of the RP development of HSK/HT NDA. 1.4.1 As the Hong Kong-Shenzhen Western Rail Link (HSWRL) (with a separate EIA to be carried out by the respective project proponent) would run through the Project, and the depot with Smart and Green Mass Transit System (SGMTS) and green transport corridor (GTC) (a separate study would be conducted by the respective project proponent) will be located within the Project, the Project would assign the necessary land use zoning for the alignment, stations, ventilation buildings, depot, etc as needed. The Project would include road network and developments such as public and private residential housing, business and technology parks, eco-tourism uses, retail, dining and entertainment uses, logistics facilities, a data centre, a revamped seafood market, government institutions (e.g. electricity substation, sewage treatment works, sewage pumping stations, etc.), and education institutions. The Project also comprises a Coastal Protection Park (CPP) of which a separate study would be conducted by the respective project proponent. While the extent and detailed design of the CPP would be subject to further study, it is envisioned that the CPP would comprise of both seaside and landside portions and aims to enhance biodiversity.

- 1.4.2 The Project Site is of approximately 930 hectares (ha) including CPP and is surrounded by the Deep Bay (Shenzhen Bay) to its north and west. The eastern boundary of the Project is bounded by fishponds, existing villages (i.e., Sha Kong Wai and Fung Kong Tsuen) and Tin Ying Road. Location of the Project is shown in **Drawing No. 289238/E/0101**.
- 1.4.3 The Project Site was mainly occupied by agriculture lands, rural residential villages and natural vegetation in 1960s to 1980s. Since 1990s, more infrastructures (e.g., roads including Tin Ying Road and Tin Yuet Road) and brownfield land uses have been observed around the area.
- 1.4.4 Based on the available information, including aerial photos, survey base maps, desktop research and site survey, the broad existing land use survey of the Project has been undertaken. The broad existing land uses have been classified into the following seven categories: (i) residential development; (ii) open space, government and community facilities; (iii) brownfield and economic uses; (iv) columbarium, burial ground and cemetery; (v) military related facilities; (vi) upland/ green land. The seven categories will exclude vacant land/ work-in-progress and other land uses such as road, drainage channels and water bodies.

1.5 Number and Types of Designated Projects to be Covered by the Project Profile

- 1.5.1 As mentioned in **Section 1.4**, the Project Site is of approximately 930 ha with a total development area of about 411 ha. It is estimated that a total planned population of about 141,000 146,000 and an employment of about 50,000 will be accommodated in LFS upon full development. Therefore, the Project is considered as a Designated Project (DP) by virtue of the following item in Schedule 3 of the Environmental Impact Assessment Ordinance (EIAO):
 - Item 1: An urban development or redevelopment project covering an area of more than 50 ha.
- 1.5.2 In addition, the Project may constitute the following DP elements in Part I, Schedule 2 of the EIAO, subject to more detailed design and planning at later stage.
 - A.1 A carriageway for motor vehicles that is an expressway, trunk road, primary distributor road or district distributor road.
 - A.2 A railway and its associated stations (a separate EIA will be conducted for HSWRL).
 - A.4 A railway siding, depot, maintenance workshop, marshalling yard or goods yard (a separate EIA will be conducted for HSWRL).
 - A.6 A transport depot located less than 100 m from the nearest boundary of an existing or planned
 - (a) residential area;
 - (b) place of worship;
 - (c) educational institution; or

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¹ Including HSK/HT NDA, Yuen Long South NDA and existing new towns of Tin Shui Wai and Yuen Long.

- (d) health care institution.
- A.7 A road tunnel or railway tunnel more than 800m in length between portals (a separate EIA will be conducted for HSWRL).
- B.5 A container backup area, container storage, container handling or container packing area (including a container vehicle parking area) more than 5 ha in size and within 300 m of an existing or planned—
 - (a) residential area;
 - (b) place of worship;
 - (c) educational institution; or
 - (d) health care institution.
- C.2 (1) Reclamation works (including associated dredging works) that are of more than 1 ha in size, and a boundary of which is—
 - (a) less than 500 m from the nearest boundary of an existing or planned specified area that is wholly or partly situated on or over any foreshore and sea-bed;
 - (b) less than 200 m from the nearest boundary of an existing or planned specified area that is not wholly or partly situated on or over any foreshore and sea-bed; or
 - (c) less than 100 m from the nearest boundary of an existing residential area.
- C.12 (1) A dredging operation that is—
 - (a) with a dredging volume of more than 500 000 m³;
 - (b) less than 500 m from the nearest boundary of an existing or planned specified area that is wholly or partly situated on or over any foreshore and sea-bed; or
 - (c) less than 200 m from the nearest boundary of an existing or planned specified area that is not wholly or partly situated on or over any foreshore and sea-bed.
- F.1 Sewage treatment works with an installed capacity of more than 15,000 m³ per day.
- F.2 Sewage treatment works—
 - (a) with an installed capacity of more than 5 000 m³ per day; and
 - (b) a boundary of which is less than 200 m from the nearest boundary of an existing or planned—
 - (i) residential area;
 - (ii) place of worship;
 - (iii) educational institution;
 - (iv) health care institution;
 - (v) site of special scientific interest;
 - (vi) site of cultural heritage;
 - (vii) bathing beach;
 - (viii) marine park; (Replaced L.N. 77 of 2023)

- (ix) marine reserve; or (Replaced L.N. 77 of 2023)
- (x) fish culture zone. (Replaced L.N. 77 of 2023)
- F.4 A facility for generating, from sewage effluent treated by a sewage treatment plant, reclaimed water for use by the general public. (Replaced L.N. 77 of 2023)
- H.1 A 400 kV electricity substation and transmission line.
- I.1 A drainage channel or river training and diversion works.
 - (a) with a channel width of more than 100 m; or
 - (b) which is less than 300 m from the nearest boundary of an existing or planned
 - (i) site of special scientific interest;
 - (ii) site of cultural heritage;
 - (iii) marine park;
 - (iv) marine reserve;
 - (v) fish culture zone;
 - (vi) wild animal protection area;
 - (vii) coastal protection area; or
 - (viii) conservation area.
- N.3 A wholesale market for fish or livestock.
- P.1 A residential or recreational development, other than New Territories exempted houses, within Deep Bay Buffer Zone 1 or 2.
- 1.5.3 Within the Project Site, Hang Hau Tsuen Channel at Lau Fau Shan and RP development of HSK/HT NDA were studied under separate approved Environmental Impact Assessment (EIA) studies (i.e., AEIAR-134/2009 and AEIAR-203/2016 respectively) and some of the DP elements are covered within the Project Site. Any proposed works of this Project that may affect the DPs under current Environmental Permits (EPs) may require the Applications for Variation of Environmental Permits (VEPs). Current EPs within the Project Site which potentially require application of VEPs are listed as follows:

Table 1.1 Summary of Current EPs within the Project Site

EP No.	Title of Designated Project	Location of the Project
EP-163/2003	Deep Bay Link and Widening of Yuen Long Highway between Lam Tei and Shap Pat Heung (Lam Tei to Tan Kwai Tsuen Section)	https://www.epd.gov.hk/eia/register/permit/latest/vep5182016.htm
FEP- 01/343/2009	Hang Hau Tsuen Channel at Lau Fau Shan	https://www.epd.gov.hk/eia/register/permit/latest/figure/fep1752016figure1.pdf
EP-528/2017	Eight New District Distributor Roads (Road D1 to D8) in Hung Shui Kiu New Development Area	https://www.epd.gov.hk/eia/register/permit/latest/ep5282017.htm

EP No.	Title of Designated Project	Location of the Project
EP-530/2017	Partly Depressed and Partly Decked-over Roads Located at Roads D2, D4 and D6 in Hung Shui Kiu New Development Area	

1.6 Name and Telephone Number of Contact Person

1.6.1 All queries regarding the Project can be addressed to:

Mr. CHUNG Lok Chin (Ch Engr/W3)

Civil Engineering and Development Department

West Development Office

West Division (3)

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New Territories

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Fax: 2693 2918

2. Outline of Planning and Implementation Programme

2.1 Project Implementation

- 2.1.1 Preliminary planning, engineering and environmental studies have been conducted to formulate development and infrastructure proposal for the Project, and a Preliminary Outline Development Plan (PODP) has been developed based on the findings. An EIA will be carried out for the Recommended Outline Development Plan (RODP) and any subsequent design developments.
- 2.1.2 Specialist environmental consultants will be employed by Project Proponent for undertaking the EIA study according to the Study Brief to be issued by the Director of Environmental Protection and to respond on behalf of the Project Proponent on issues related to the EIA.
- 2.1.3 The Project Proponent or other parties will be responsible for implementing the proposed works, together with all the environmental mitigation measures, the environmental monitoring and audit requirements as recommended in the EIA study of this Project.
- 2.1.4 Subject to the findings of the EIA study, the construction works of the proposed development and infrastructure for the Project may be carried out in phases by contractors to be appointed by the Government under various works contracts.

2.2 Project Time Table

2.2.1 Government-initiated works will commence in around 2030, taking into account the priorities accorded to earlier phases of the extended HSK/HT NDA (subject to further refinement of the construction programme in the later stage).

2.3 Interface with Other Projects

- 2.3.1 Given the interface of the Project with other ongoing projects, a review on the interface issues and opportunities will be explored. It includes but not limited to:
 - HSK/HT NDA;
 - SGMTS in HSK/HT NDA and adjacent areas;
 - HSWRL (Hung Shui Kiu Qianhai);
 - Further Feasibility Study to be conducted by Agriculture, Fisheries and Conservation Department (AFCD) on the CPP;
 - Further study to be led by the Tourism Commission on the LFS seafood market;
 - Proposed upgrading of Deep Bay Road and Nim Wan Road;
 - Concurrent and approved Section 16 and Section 12A Planning Applications within the Project Site;
 - District Cooling System (DCS) in HSK/HT NDA;

- Committed public housing site at Tin Wah Road;
- Traffic and Transport Strategy Study (TTSS);
- Strategic Feasibility Study on the Development of Wetland Conservation Parks System; and
- Northern Metropolis Highway.

3. Possible Impacts on Environment

3.1 General

- 3.1.1 Construction methodology, work site area, excavation scale and detailed implementation programme of the Project are not available at this stage. They will be established during the subsequent EIA and detailed design stage.
- 3.1.2 The works for the Project will include site clearance, site formation, building works and the associated infrastructure works, such as the necessary slope works, road works, sewerage works, drainage works, landscaping, decontamination, utility works, etc. It is anticipated that the surrounding sensitive receivers may be affected during the construction and operational stages of the Project.
- 3.1.3 Potential environmental impacts associated with the construction and operation of the Project have been identified based on the PODP and are described below.

3.2 Air Quality

Construction Phase

3.2.1 Construction works include site clearance, site formation, building works and infrastructure works as well as concrete batching plant, etc. During construction, dust is the potential air quality impact which would be generated from construction activities such as excavation works, backfilling, wind erosion of exposed area, temporary storage of spoil on site, transportation and handling of spoil on site etc., as well as Particulate Matter (PM) and gaseous emissions from construction plants and trucks are expected to be the sources of impact during construction phase. Odour emission is not anticipated during the construction stage of this Project as the relocation/demolition of the livestock farms and brownfield operations will be completed before construction of the Project begins. Cumulative air quality impact associated with the proposed project and any concurrent projects within the 500m Assessment Area (i.e. an area within 500m measuring from the Project Site boundary) during the construction phase will be addressed in the EIA study.

Operational Phase

3.2.2 The major air pollution sources will include the vehicular emissions from existing and proposed roads, planned container backup area with parking site of container vehicles, industrial emissions from existing chimneys, and from planned logistics facilities and business and technology parks. The major odour sources will include an existing livestock farm located around 200m beyond the Project Site, the revamped seafood market, existing sewage pumping stations (SPS) at Tin Shui Wai and Ha Tsuen, planned on-site SPS and sewage treatment works (STW) of the Project. No odour emission along the coastline of Deep Bay was identified. The marine emission from fishing vessels operated in oyster farms to the east of the Project Site is considered very limited, given the small size and number of the fishing vessels, subject to further study in subsequent EIA stage. Cumulative air quality impact during the operation phase will be addressed in the EIA study.

3.3 Noise

Construction Phase

3.3.1 Potential noise impacts will be arising from the use of Powered Mechanical Equipment (PME) during construction works. The major construction works which would create noise impact will be site clearance, site formation, excavation, backfilling, material handling, construction of superstructure of residential, Government, Institution or Community (G/IC), commercial, etc., construction of internal roads, construction of SPS and potential STW, construction of utilities, and construction of associated infrastructure. Potential noise impacts associated with these pollution sources during construction phase would be addressed in the EIA study.

Operational Phase

3.3.2 The major operational noise sources will be the traffic on existing roads (e.g. Deep Bay Road, Kong Sham Western Highway, Ping Ha Road, Lau Fau Shan Road, Tin Ying Road, etc) and the proposed roads including SGMTS and GTC, existing fixed noise sources (e.g. Tsing Shan Firing Range, rural industries and logistic buildings scattered along the Project), planned fixed noise sources (e.g. SPS, STW, district cooling system, electricity substations, railway ventilation building (VB), railway depot, GTC depot (with a separate EIA to be carried out by the respective project proponent), Fire Services Department (FSD) depot, fire station cum ambulance depot, the revamped seafood market, Public Transport Interchange (PTI), as well as railway noise (i.e. HSWRL) within and in the vicinity of the Project. Potential noise impacts associated with these pollution sources during operational phase would be addressed in the EIA study.

3.4 Water Quality

Construction Phase

- 3.4.1 The Project will involve various construction activities undertaken at various times and durations. The activities which may have an impact on water quality include site formation, bore piling, tunnelling, construction of buildings, construction of road network, any dredging/marine works for CPP, as well as sewage effluent from the workforce, etc. Water quality impacts during construction phase may include construction site runoff, suspended solids from any dredging/marine works, sewage from workforce, accidental spillage of chemicals, contaminated groundwater and wastewater as well as runoff from removal and filling of ponds. Potential water quality impacts associated with these pollution sources during construction phase would be addressed in the EIA study.
- 3.4.2 Based on the latest design, there would be mainly land-based works. Some minor dredging/marine works may be required for the CPP. The activities/sources which may potentially induce adverse water quality impacts during the construction phase include:
 - General construction activities and construction site runoff;
 - Dredging/marine works, if required, for the CPP;
 - Construction works in close proximity of inland water;
 - Tunnelling and underground works;

- Sewage from workforce;
- Accidental spillage of chemicals;
- Contaminated groundwater and wastewater;
- Diversion of watercourses; and
- Potential loading from dewatering for removal or filling of ponds.

Operational Phase

- 3.4.3 Water quality impacts during operational phase will result in increased surface runoff, domestic and non-domestic (e.g. commercial, retail, dining and entertainment, G/IC, toilets in open space) sewage, potential emergency discharge from STW, and cooling water discharge. Potential water quality impacts associated with these pollution sources during operational phase would be addressed in the EIA study.
- 3.4.4 The following potential sources which may induce water quality impacts are identified for the operational phase:
 - Stormwater runoff;
 - Sewage from the development (on-site STW and on-site reuse water facility will be provided);
 - Emergency discharge from planned on-site STW; and
 - District cooling system.

3.5 Waste Management Implications

Construction Phase

3.5.1 During the construction phase, the main activities which would potentially result in the generation of waste include but not limited to site clearance, site formation, construction of buildings and associated infrastructures, etc. The typical waste types associated with these activities include construction & demolition (C&D) materials, general refuse, chemical waste, fishpond and marine sediment/mud. The quantities of wastes to be generated during construction phase will largely depend on the extent of the proposed new developments and infrastructures of the Project. The waste management implication during construction phase would be addressed in the EIA study.

Operational Phase

3.5.2 Wastes which may arise from the Project during operational phase include municipal solid waste from households, commercial and industrial sources; chemical waste from maintenance activities on the road networks (e.g., paints, lubricants and used batteries), the proposed educational institution (i.e., the laboratories of these educational institutions), operations of SPS and the proposed STW, as well as logistics, storage and workshop. Screening, grits and dewatered sludge are expected from STW and pumping station. The storage, handling and disposal of the waste, if not carried out properly, may have the potential to cause adverse environmental impact. The waste management implication during operational phase would be addressed in the EIA study.

3.6 Land Contamination

- 3.6.1 There is potential for the presence of residues from brownfield land uses such as open storage, warehouse, vehicle maintenance, workshop, and recycling facilities etc., to create an adverse impact that will need to be cleaned up during the site formation phase.
- 3.6.2 The contaminated land impacts are likely to be related to the following: health risks to site workers, disposal of contaminated soils, where encountered, and potential health risks to future users of the sites. The land contamination issue and its impact within the Project Site would be identified and assessed in the EIA study.

3.7 Landfill Gas Hazard

3.7.1 There is neither existing nor closed landfill located close to the Project, and the Project Site is beyond the 250m Consultation Zone (CZ) of West New Territories (WENT) Landfill. Hence, there is no potential Landfill Gas (LFG) hazard. LFG hazard assessment and mitigation measure are not required for the Project.

3.8 Hazard to Life

Construction Phase

3.8.1 A quantitative risk assessment (QRA) would be conducted in the EIA study to assess the hazard-to-life impact during construction phase. No explosive will be used in the Project. Any potential hazard-to-life impacts from explosive use for planned HSWRL will need to be investigated in a separate EIA study by its project proponent, and mitigation measures will be provided to ensure meeting the relevant criteria, as necessary.

Operational Phase

- 3.8.2 Hazard-to-life impact during operational phase may arise from the following Liquefied Petroleum Gas (LPG) cum Petrol Filling Station at Ping Ha Road, proposed energy station, and planned town gas offtake and pigging station (O/P Station) at Hung Shui Kiu Area 56. A QRA would be conducted in the EIA study to assess the hazard-to-life impact during operational phase.
- 3.8.3 In addition, hazard-to-life impact may arise from the storage and usage of dangerous goods at the proposed STW. The dangerous goods may be involved in other land uses and will comply with Dangerous Goods (Control) Regulation. Those hazard-to-life impact would also be assessed in the EIA study if necessary.

3.9 Ecology

- 3.9.1 Based on the environmental review carried out, recognised sites of conservation importance within and in the vicinity of the 500m Assessment Area include:
 - Mai Po Nature Reserve;
 - Mai Po and Inner Deep Bay Ramsar Site, Priority Site;
 - Mai Po Marshes Sites of Special Scientific Interest (SSSI);

- PN SSSI;
- Inner Deep Bay SSSI;
- TBT Egretry SSSI;
- TBT SSSI;
- Hong Kong Wetland Park;
- Wetland Conservation Area (WCA);
- Wetland Buffer Area (WBA);
- Coastal Protection Area (CPA);
- Conservation Area (CA);
- Active Egretries;
- Active ardeid night roosts; and
- Sites with Records of Horseshoe Crab.
- 3.9.2 Desktop literature review and rapid site visits conducted in the environmental review have identified a number of habitats within the 500m Assessment Area; these include Sea, Stream, Channelised Watercourse, Pond, Mangrove, Marsh, Grassland, Grassland/Shrubland, Shrubland, Fung Shui Woodland, Secondary Woodland, Plantation, Orchard, Developed Area, and Waste Ground.
- 3.9.3 Based on the environmental review, species of conservation importance recorded within the 500m Assessment Area include:
 - Flora (e.g. Aquilaria sinensis, Gnetum luofuense, Halophila spp. etc.)
 - Mammals (e.g., Short-nosed Fruit Bat, Leopard Cat, etc.)
 - Avifauna (e.g., Northern Shoveler, Chinese Grosbeak, etc.)
 - Amphibians (e.g., Spotted Narrow-mouthed Frog, Chinese Bullfrog)
 - Reptiles (e.g. Reeve's Turtle, Burmese Python, etc.)
 - Butterflies (e.g., Brown Awl, Chocolate Albatross, etc.)
 - Odonates (e.g., Four-spot Midget, Emerald Cascader, etc.)
 - Fishes (e.g., Mangrove Goby, Chinese Glass Goby, etc.)
 - Aquatic invertebrates (e.g., *Caridina typus*, Horseshoe Crabs, etc)
- 3.9.4 The potential direct ecological impact arising from the Project would be the loss of habitats. Nevertheless, the PODP has already preserved the habitats evaluated as of higher ecological value among other types of habitats identified.
- 3.9.5 The potential ecological impacts arising from the Project include:

Construction Phase

- (i) Potential direct impacts to fauna and flora species, intertidal habitats;
- (ii) Indirect disturbance impacts to habitats and wildlife due to artificial light, construction noise, vibration, dust, and other forms of human disturbances, water quality due to dredging/marine works, etc. Attention should be paid to the potential

- disturbance to the egretries and ardeid night roost present, as well as to the potential disturbances to the recognised sites of conservation importance in the wider area; and
- (iii) Impacts to water quality, hydrology and/or aquatic fauna from proposed STW, surface run-off with dust and exposed earth or accidental spillage of chemicals, lubricants and pollutants from the construction site.

Operational Phase

- (i) Indirect disturbance to habitats and wildlife due to the increased level of traffic and human disturbance, primarily in the forms of additional noise and artificial light, etc. Attention should be paid to the potential disturbance to the egretries and ardeid night roost present, as well as to the potential disturbances to the recognised sites of conservation importance in the wider area;
- (ii) Potential water pollution from proposed STW, storm water runoff due to reduction of area of permeable surfaces, accidental spillage of chemicals, domestic sewage, wastewater from high-technological industries and cooling water discharge;
- (iii) Fragmentation impacts; and
- (iv) Potential obstruction of avifauna flight paths by proposed developments at the TBT headland area.

3.10 Fisheries

3.10.1 Since no marine works are required based on the latest design, there is no direct ecological impact on marine fishing ground, capture fisheries production and oyster production. However, potential indirect impacts on marine habitat arising from the Project include:

Construction Phase

- (i) Impacts on hydrology (e.g., water seepage);
- (ii) Deterioration of water quality in nearby water bodies due to site runoff, dust, silt and chemical waste, dredging/marine works (if any);
- (iii) Impacts on fishing grounds and oyster farming activities in Deep Bay (locations and extents to be agreed with Environmental Protection Department (EPD) and AFCD); and
- (iv) Degradation of the environmental conditions of marine habitat.

Operational Phase

- (i) Degradation/deterioration of environmental conditions of marine habitat due to induced-water quality impacts from sewage and runoff from the Project.
- 3.10.2 The potential ecological impacts on pond fish production and operation arising from the Project include:

Construction Phase

- (i) Temporary or permanent loss of fish ponds or areas for farming / fisheries operation;
- (ii) Temporary or permanent loss of fisheries resources;

- (iii) Impacts on pond bund stability and hydrology (e.g., water seepage, impact on supply of irrigation water);
- (iv) Deterioration of water quality in nearby water bodies;
- (v) Degradation of the environmental conditions of farmland or fish ponds; and
- (vi) Temporary blockage of access to farmland or fish ponds.

Operational Phase

- (i) Blockage of access to farmland or fish ponds; and
- (ii) Degradation/deterioration of environmental conditions of farmland and fish ponds due to induced-water quality impacts from sewage and runoff from the Project.

3.11 Cultural Heritage

Construction Phase

3.11.1 Potential impacts arising from the Project may include direct and indirect impacts to the built heritage and archaeological resources (both terrestrial and marine) arising from the various construction activities.

Operational Phase

3.11.2 No potential operational impacts are anticipated, subject to further review and findings under the EIA Study.

3.12 Landscape and Visual

Construction Phase

3.12.1 The sources of landscape and visual impacts of the Project during construction would include:

Sources of Landscape Impacts

- (i) Potential loss of plantation along existing road in Deep Bay Road and Lau Fau Shan Road due to the road improvement works;
- (ii) Potential loss of existing trees within orchard areas (near Deep Bay Road and Tin Yuet Road) due to the proposed development of residential sites and service innovation base;
- (iii) Potential loss of a few "trees of particular interest" located along Lau Fau Shan Road and Deep Bay Road due to the proposed road improvements works;
- (iv) Potential loss of secondary woodlands near Former Lau Fau Shan Police Station and Mong Tseng Tsuen due to the proposed government and education developments;
- (v) Potential loss of existing reedbed along Deep Bay Road and Tin Yuet Road due to the road improvement works;

- (vi) Potential loss of the vegetated slopes along Deep Bay Road due to the road improvement works;
- (vii) Potential loss of natural terrain across Sha Kong Tsuen and near the junction of Tin Ying Road and Deep Bay Road due to the proposed development of residential site and road improvement works;
- (viii) Disturbance of natural streams near Sha Kiu Tsuen and Che Wan Seen Yuen due to the proposed development of governmental and institutional uses and road improvement works;

Sources of Visual Impacts

- (ix) Visual intrusion due to the construction works and excavation works;
- (x) Temporary storage, handling and transportation of material at stockpile area;
- (xi) Visual intrusion from loss of natural terrain, removing existing plantation, trees and vegetations; and
- (xii) Construction of the associated facilities, such as road widening works, the earthwork and breaking out hard surface are likely to generate negative intruding into existing views.

Operational Phase

3.12.2 The sources of landscape and visual impacts of the Project in operational phase would include:

Sources of Landscape Impacts

- (i) Residual impacts from loss of natural terrain and vegetation covers;
- (ii) Residual impacts from loss of existing trees;
- (iii) Irreversible change of existing landscape character from rural coastal plain landscape to urbanised development landscape; and

Sources of Visual Impacts

(iv) Operation of the proposed development including new building structures, infrastructure and noise canopies would generate negative visual impacts mainly due to the potential changes of visual composition and loss of/ obstruction to visual resources. The visual impact will be assessed in the EIA study.

4. Major Elements of the Surrounding Environment

4.1 Surrounding Environment including Existing and Planned Sensitive Receivers

- 4.1.1 The Project are mainly rural area bounded by the coastline of Deep Bay (Shenzhen Bay) to its north and west. The eastern boundary of the tentative Project Site is bounded by fishponds, existing villages (i.e., Sha Kong Wai and Fung Kong Tsuen) and Tin Ying Road.
- 4.1.2 Existing sensitive receivers and sensitive parts of the surrounding environment which might be affected by the Project include the following:
 - a) Villages (e.g. Sha Kiu Tsuen, Mong Tseng Wai, San Hing Tsuen, etc.);
 - b) Residential developments (e.g., Emerald Villa, Tin Heng Estate, Tin Chak Estate, Deep Bay Grove, etc.);
 - c) Educational institutions (e.g., S.T.F.A. Wu Mien Tuen Primary School, W F Joseph Lee Primary School, etc.);
 - d) Recreational parks (e.g., Hong Kong Wetland Park, etc.);
 - e) Places of worship (e.g., Hung Shing Temple, Wan Fau Sin Koon, Che Wan Seen Yuen, etc.);
 - f) Watercourses (e.g., Tin Shui Wai Nullah, Sheung PN Stream, etc.);
 - g) Fish ponds;
 - h) Site of Special Scientific Interest (e.g., PN SSSI, Inner Deep Bay SSSI, etc.);
 - i) Areas of conservation value (e.g., Mai Po and Inner Deep Bay Ramsar Site, Hong Kong Wetland Park, PN SSSI, Inner Deep Bay SSSI, Wetland Conservation Area, Coastal Protection Area, Conservation Area, egretries and ardeid night roost, intertidal mudflats and mangroves, etc.);
 - j) Places of visual value (e.g., ridgeline of Yuen Tau Shan, ridgeline of Tin Shui Wai Shan, etc.); and
 - k) Sites of archaeological interest (SAI) (e.g. Ngau Hom Sha SAI, Fu Tei Au SAI, etc.), Declared Monuments (e.g. Yeung Hau Temple and Tang Ancestral Hall, etc, which are beyond the Project Site), graded historic buildings (e.g. Yuen Kwan Tai Temple and Entrance Gate in Mong Tseng Wai, Former Lau Fau Shan Police Station, etc.), historical village clusters (e.g. Mong Tseng, Lau Fau Shan, etc.) and preliminary identified areas of archaeological potential.
- 4.1.3 According to the planned land uses in PODP, planned sensitive receivers include private and public housing development, school, sport centres, general clinic, Residential Care Homes for the Elderly (RCHE) etc.
- 4.1.4 Existing and future sensitive receivers and sensitive parts of the natural environment would be identified under the EIA study.

4.2 Air Quality

- 4.2.1 The Kong Sham Western Highway is located to the southwest the Project, while Tin Ying Road runs along the eastern side of the Project. Vehicular emissions from these existing and proposed roads are one of the air pollution sources. In addition, emissions from existing and planned Public Transport Interchanges (PTIs), Bus Termini and Public Parking within the Project would also contribute to the cumulative air quality impacts.
- 4.2.2 Industrial emissions from existing chimneys including Tin Shui Wai Hospital, Wan Fau Sin Koon and planned Port Backup and Logistic Facilities are also potential air pollution sources. The chimneys from joss paper burners identified in Wan Fau Sin Koon are equipped with new environmental-friendly technology provided by REC Green Technologies Co., Ltd which is recognised by EPD in the List of Local Suppliers of Cremation Equipment and/or Air Pollution Control Equipment for Paper Offerings Burning. No joss paper burners and large-scale altars are identified in Che Wan Seen Yuen, Tin Hau Temple (Ha Tsuen), Yuen Kwan Tai Temple and Hung Shing Temple. The potential air quality impact from burning activities in all the temples and monasteries within the 500m Assessment Area will be addressed during the EIA study stage.
- 4.2.3 The existing livestock farms, the revamped seafood market, planned and existing SPS such as Tin Shui Wai Tin Wah Road SPS and Ha Tsuen SPS, and the proposed STW may also lead to odour impact.
- 4.2.4 Existing Air Sensitive Receivers (ASRs) include villages (e.g. Sha Kiu Tsuen, Mong Tseng Wai, San Hing Tsuen, Sha Kong Wai, etc.), residential developments (e.g. Emerald Villa, Tin Heng Estate, Tin Chak Estate, Deep Bay Grove, etc.), educational institutions (e.g. S.T.F.A. Wu Mien Tuen Primary School, W F Joseph Lee Primary School etc.), recreational parks (e.g. Man Tin Cheung Park, etc.) and place of worship (e.g. Wan Fau Sin Koon, Che Wan Seen Yuen etc.), etc. Planned ASRs include private and public housing developments, schools, general clinic, RCHE, etc. The EIA study would assess the air quality impact on the ASRs.

4.3 Noise

- 4.3.1 The noise climate is dominated by the road traffic along Deep Bay Road, Nim Wan Road, Lau Fau Shan Road, Tin Ying Road and Kong Sham Western Highway. Besides, a fixed noise source, Tsing Shan Fire Range is also in proximity to the Project. Irregular firing practice would be conducted on weekdays and Saturdays at the Fire Range. Rural industries and logistic buildings are scattered along the Project.
- 4.3.2 Existing Noise Sensitive Receivers (NSRs) include villages (e.g., Sha Kiu Tsuen, Mong Tseng Wai, San Hing Tsuen, Sha Kong Wai, etc.), educational institutions (e.g., S.T.F.A.Wu Mien Tuen Primary School and S.T.F.A Yung Yau College, Caritas Lok Kan School, etc.) and places of public worship (e.g., Hung Shing Temple, Wan Fau Sin Koon, etc.) Planned NSRs include proposed private and public housing developments, schools, general clinic, and RCHE etc. The EIA study would assess the noise impact on the NSRs.

4.4 Water Quality

- 4.4.1 The Project is located at the inshore areas of Deep Bay. Existing pollution sources include treated sewage effluent (TSE) from Yuen Long STW, and surface runoff at the vicinity collected by the channelized nullahs such as Tin Shui Wai Nullah, Shan Pui River, Kam Tin River, and Shenzhen River. Planned sources may include TSE from the planned STW and discharge from DCS inside the Project Site.
- 4.4.2 The existing potential Water Sensitive Receivers (WSRs) mainly includes the vicinity of ecological important areas including Conservation Areas, SSSIs, Coastal Protection Areas, Mai Po Inner Deep Bay Ramsar Site, and Tin Shui Wai Nullah, oyster production area in Deep Bay (locations and extents to be agreed with EPD and AFCD), etc. In addition, nearby waterbodies including streams and rivers identified above, fishponds, lotus ponds, duck ponds and other commercial waterbodies are also identified as potential WSRs.

4.5 Waste Management Implications

- 4.5.1 The existing solid waste arising from the area within the Project include domestic waste from village houses, commercial/industrial waste generated from open storage and informal industrial uses, and chemical waste from vehicle maintenance and workshop.
- 4.5.2 During construction phase, apart from the inert construction and demolition (C&D) waste (e.g., soil and rock etc.) and non-inert C&D waste (e.g., timber and general refuse etc.), land-based sediment (e.g., pond deposit) might be encountered from the existing fishponds and marine-based sediment from any dredging/marine works (e.g. for CPP). An assessment of sediment quality would be required to classify sediment based on their contaminant levels in order to identify the disposal arrangement for the classified sediment.
- 4.5.3 The EIA study would assess the waste management implication.

4.6 Land Contamination

4.6.1 The existing environment in the Project includes rural land uses such as agriculture and villages as well as brownfield land uses such as open storage, warehouse, vehicle maintenance, workshop, and recycling facilities etc. The main expected contaminant from the land uses in the Project are from by-products from the brownfield land uses, which include the use and/or storage of chemicals and metals. Land contamination assessment will be carried out under the EIA study to formulate appropriate contamination assessment plans and remediation action plans, if necessary.

4.7 Landfill Gas Hazard

4.7.1 The only landfill near the Project Site is WENT Landfill located in Nim Wan, Tuen Mun, which occupies an area of about 110 ha and has been operating since 1993. The nearest distance between the boundary of 250m CZ of WENT Landfill and the Project is more than 2km.

4.7.2 As the Project is beyond the 250m CZ, there is no constraint of the WENT Landfill on the Project and hence LFG hazard assessment is not required.

4.8 Hazard to Life

4.8.1 The LPG cum Petrol Filling Station at Ping Ha Road, proposed energy station located within the Project. The planned town gas offtake and pigging station (O/P Station) is located to the southeast of the Project. The potential hazard to life implications would be subject to further review and findings under this Project.

4.9 Ecology

Mai Po Inner Deep Bay Ramsar Site, Priority Site and Inner Deep Bay SSSI

- 4.9.1 About 1,500 ha of wetland in the Mai Po and Inner Deep Bay region has been listed as a Ramsar Site under the Ramsar Convention since 4th September 1995. The site has a shallow bay with extensive intertidal mudflats backed by mangroves, tidal shrimp ponds (gei-wai), commercial fishponds and reedbeds. The Ramsar Site was further identified as Priority Site for Enhanced Conservation under New Nature Conservation Policy (NNCP) in Hong Kong.
- 4.9.2 The site serves as an important over-wintering and re-fuelling station site for the waterbirds along the East Asian-Australasian Flyway. About 400 species, representing around 70% of the Hong Kong birds, have been recorded there. The site regularly supports some 50,000-80,000 waterbirds in winter, including a number of globally threatened species, such as Black-faced Spoonbill, Saunders's Gull and Nordmann's Greenshank.
- 4.9.3 The Inner Deep Bay area was also designated as a SSSI in 1986, covering an area of approximately 1,036 ha in size.
- 4.9.4 The Inner Deep Bay area, the associated SSSI and the Priority Site partly fall into the north-eastern part of the 500m Assessment Area.

Hong Kong Wetland Park

4.9.5 The northern part of Hong Kong Wetland Park is included in the 500m Assessment Area. The 61-hectare Hong Kong Wetland Park serves the functions of being an ecological mitigation area to compensate the wetland loss due to Tin Shui Wai New Town development, and also providing an education and tourism venue for the local residents and overseas visitors. It is located at the northern part of Tin Shui Wai, connecting the core area of Inner Deep Bay wetlands. The Park supports a high diversity of wildlife, with species of birds, dragonflies, amphibians, reptiles, and butterfly.

Wetland Conservation Area (WCA) and Wetland Buffer Area (WBA)

4.9.6 To conserve the ecological value of the Ramsar site, the Town Planning Board adopts a two-pronged approach to land use planning control through the designation of Wetland Conservation Area (WCA) and Wetland Buffer Area (WBA).

4.9.7 The Project Site has avoided the WCA and only a small area of the WCA was included in the 500m Assessment Area. The WBA overlaps with the northern part of the Project Site and the 500m Assessment Area.

Egretries and Ardeid Night Roost

- 4.9.8 A total of three active egretries, Ngau Hom Shek, Shenzhen Bay Bridge and Sha Kiu Village, were identified in the Assessment Area according to the latest egretry counts conducted in 2022.
- 4.9.9 In addition to the active egretries, the abandoned TBT Egretry was present within the Project Site. It was listed as SSSI since 1989 given being an important egretry for several hundred pairs of ardeids, including Great Egret, Little Egret, Eastern Cattle Egret, Black-crowned Night Heron and Chinese Pond Heron. The site comprises two small patches of woodland south of TBT with an area of 4.8 ha in total. It was believed that the colony from this abandoned egretry had possibly shifted to some of the existing egretries nearby which were discovered in recent years.
- 4.9.10 An ardeid night roost was known to occur in the mangrove area near Shenzhen Bay Bridge.

PN SSSI

4.9.11 Apart from the abovementioned SSSIs, the third SSSI present within the Assessment Area is located in the coastal area near PN. The sandpit at this location is used as a high tide roost for gulls and terns in the Deep Bay area.

TBT SSSI

4.9.12 TBT SSSI partially overlaps with the Project Site. It covers an area of about 2.1 ha of mature mangrove that provides the only known habitat in Hong Kong for the large mangrove pulmonated snail, *Ellobium polita*. *Bruguiera conjugata*, a mangrove species that is becoming rare in Hong Kong, can also be found in this SSSI.

Coastal Protection Area

4.9.13 A number of areas under the zoning of Coastal Protection Area (CPA) on relevant Outline Zoning Plans (OZPs) are situated along the coastal line outside the Project Site. This zoning is intended to conserve, protect and retain the natural coastlines and the sensitive coastal natural environment, including attractive geological features, physical landform or area of high landscape, scenic or ecological value, with a minimum of built development. It may also cover areas which serve as natural protection areas sheltering nearby developments against the effects of coastal erosion.

Conservation Area

4.9.14 Two areas under the zoning of Conservation Area (CA) on relevant OZPs fall into the Assessment Area. This zoning is intended to protect and retain the existing natural landscape, ecological or topographical features of the area for conservation, educational and research purposes. The eastern one, where is located next to Hong Kong Wetland Park, consists of a number of fishponds. Another CA covers an extensive area of shrubland west of Kong Sham Western Highway.

- 4.9.15 Mudflats, mangroves and seagrass beds along the coastal area near the Project Site, especially near PN, are known to provide importance nursery and feeding ground for juvenile horseshoe crabs and a wide variety of intertidal organisms and are therefore considered to be of high ecological value. An extensive intertidal mosaic of mudflat and mangrove lies along the seaward side of the Assessment Area, which forms part of the Deep Bay wetland ecosystem and provides food, shelter, and nursery to a large number of wetland (especially intertidal) fauna.
- 4.9.16 Seagrass beds of *Halophila* spp. occur on mudflats near the Assessment Area. This widely distributed seagrass species was reported to have an extending range along the southern fringe of Deep Bay, with the largest bed recorded at Ha PN. The intertidal area spanning across Sheung PN, PN and Ha PN has also been identified as important habitat for horseshoe crabs in Hong Kong, especially as nursery ground for juveniles.

Sites with Records of Horseshoe Crab

- 4.9.17 Two horseshoe crab species are present on the mudflats along the Project Site. Chinese Horseshoe Crab *Tachypleui tridentatus* was recorded in a higher number of sites, including Ha PN, Sheung PN, Ngau Hom Shek and Lau Fau Shan. Among them, Sheung PN and Ha PN were also considered as important nursery grounds in Hong Kong due to the high abundance of juveniles found.
- 4.9.18 Mangrove Horseshoe Crab *Carcinoscorpius rotundicauda* was recorded in fewer locations in the Assessment Area, including Ha PN, Sheung PN and Lau Fau Shan.

4.10 Fisheries

- 4.10.1 According to information collected during the preliminary site visits and unpublished data provided by AFCD, there are active farmland and abandoned farmland within the Assessment Area. According to unpublished data provided by AFCD, there are also six licensed livestock/poultry farms within the Assessment Area.
- 4.10.2 Within the Assessment Area, fishponds are scattered along the coast area next to the Project Site, especially south of the Shenzhen Bay Bridge. The fishponds include active, inactive and abandoned ponds. A lot of ponds in the Assessment Area are quite small and isolated from others; with many other larger ones having been either abandoned or converted to recreational fishing ponds, with no commercial operations of aquaculture.

- 4.10.3 Culture of oyster has been practiced for more than 300 years in Hong Kong along the intertidal mud flat of Deep Bay, which has remained the only site of oyster culture in Hong Kong. Deep Bay is shallow and protected from wave action as a sheltered waterbody. It also receives fluvial discharges from various major river channels including Shenzhen River Kam Tin River, Sheung Yue River, and Tin Shui Wai Nullah. The nutrient-rich brackish water in Deep Bay also provides an ideal environment for oyster. As such, the unique conditions of Deep Bay are particularly favourable for oyster culture. There are over 5,000 oyster rafts covering an area larger than 25km² within Deep Bay. The majority of these are outside of Assessment Area. Some oyster farmers are still practising the traditional bottom culture method on mudflats near Lau Fau Shan. oyster production area in Deep Bay (locations and extents to be agreed with EPD and AFCD) are considered as potential fisheries sensitive receivers.
- 4.10.4 Within Deep Bay Water Control Zone (WCZ), there were mostly between 50 and 100 vessels (mostly sampans) operating along the coastal waters at Deep Bay, although number of vessels are higher (100 to 200) towards the western end of the Deep Bay WCZ near Urmston Road. The annual production yield in these waters was mostly below 50kg per hectare. Within the Deep Bay WCZ, overall annual catch value per hectare was low (less than HK\$1,000).
- 4.10.5 Fish fry collection is concentrated in the eastern waters of Hong Kong and has not been recorded within the Deep Bay WCZ. No important fish spawning ground or nursery area was identified within the Deep Bay WCZ. No marine fish culture zone is present within or near the Assessment Area.

4.11 Cultural Heritage

- 4.11.1 The Project Site includes nine SAIs, including Mong Tseng SAI, Lau Fau Shan SAI, Hang Hau Tsuen SAI, Sha Kong Miu (North) SAI, Sha Kong Miu (South) SAI, Ngau Hom Shek SAI, Fu Tei Au SAI, Ngau Hom Sha SAI, Sheung PN SAI.
- 4.11.2 In addition to the nine SAIs, two areas of previous findings outside the SAI boundaries are known at Hang Hau Tsuen and the area between Ngau Hom Shek and Fu Tei Au SAIs. Furthermore, six areas of archaeological interest which require verification were identified.
- 4.11.3 There are furthermore declared monuments and graded historic buildings are located in the vicinity of the Project. These are situated within the historical villages within the Project Site which includes Sha Kong Tsuen, Lau Fau Shan, Mong Tseng Wai/Mong Tseng Tsuen and Ha Tsuen.

4.12 Landscape and Visual

- 4.12.1 The 500m Assessment Area is from Sheung PN in the west to TBT in the east, and from Deep Bay in the north to Shek Po Tsuen in the south, major road access to the area are Deep Bay Road and Lau Fau Shan Road. The field survey focused on surveying landscape resources (LRs) of conservation significance, such as secondary woodland, agricultural land, ponds, Fung Shui woodland, natural watercourses and tree species with conservation importance in areas of landscape concern.
- 4.12.2 Several sites of recognized conservation importance have been identified within or near the Assessment Area, including the following:

- TBT SSSI
- Inner Deep Bay SSSI
- PN SSSI
- TBT Egretry
- CA at Yuen Tau Shan
- CA at TBT
- CPA at TBT
- CPA at Lau Fau Shan
- CPA at Shenzhen Bay Bridge (SZBB) (North)
- CPA at SZBB (South)
- 4.12.3 No registered Old and Valuable Trees (OVTs) and Potentially Registrable OVTs (POVTs) are found within the broad-brush tree survey area. Nevertheless, there might be potential sensitive LRs such as Trees of Particular Interest, rare, precious, endangered and protected plants of Hong Kong.
- 4.12.4 The composition of existing Landscape Character Areas (LCAs) within the Assessment Area consists of 'Unsettled Valley Landscape', 'Upland and Hillside Landscape', 'Intertidal Coast Landscape', 'Strait Landscape', 'Rural Coastal Plain Landscape', 'Park Urban Landscape, 'Miscellaneous Urban Fringe Landscape', 'Miscellaneous Rural Fringe Landscape' and 'Residential Urban Landscape'.
- 4.12.5 For visual, the major visual resources enjoyed by the public within the Project mainly comprise the open sea water of Deep Bay, the ridgelines from Yuen Tau Shan, Kai Pak Ling and Tin Shui Wai Shan and the natural wetland at TBT. The following areas where receiver groups located would be covered by the major visual resources:
 - (i) Lau Fau Shan Rest Garden;
 - (ii) Mong Tseng Wai Basketball Court;
 - (iii) TBT Lookout Pavilion;
 - (iv) Tin Shui Wai Shan Northwest;
 - (v) Tin Shui Wai Shan Southwest;
 - (vi) Kai Pak Ling;
 - (vii) Yuen Tau Shan;
 - (viii) Deep Bay Road;
 - (ix) Sik Kong Tsuen Playground;
 - (x) Ping Ha Road;
 - (xi) Tin Shui Path;
 - (xii) Hong Kong Wetland Park;
 - (xiii) Lau Fau Shan Seafood Fishing Village;
 - (xiv) Shenzhen Bay Bridge;
 - (xv) Fung Kong Tsuen Road;
 - (xvi) Sha Chau Lei Sitting-out Area; and
 - (xvii) Tin Sau Road Park.

4.12.6	The landscape and visual impacts of the Project will be addressed in the EIA study.

5. Environmental Protection Measures to be Incorporated in the Design and Any Future Environmental Implications

5.1 General

5.1.1 The EIA study will investigate those environmental impacts and propose the appropriate mitigation measures with the intention that all proposals would be environmentally acceptable and cost effective. The residual impacts, if any, would be confined within the allowable limits. Environmental monitoring and auditing of potential impacts that may arise from the works of the Project would be provided for the construction and operational phases. Subject to the findings of the EIA study, the following mitigation measures will be incorporated in the design and construction of the Project, where appropriate.

5.2 Air Quality

Construction Phase

- 5.2.1 In order to prevent adverse impacts on air quality, the control measures stipulated in the Air Pollution Control (Construction Dust) Regulations should be implemented, wherever applicable, to limit the dust and gaseous emissions from the Project. Mitigation measures, including but not limited to the following, will be put in place:
 - Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading;
 - Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;
 - A stockpile of dusty material should not be extended beyond the pedestrian barriers, fencing or traffic cones;
 - The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle;
 - Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores;
 - When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period;
 - The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials;

- Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously;
- Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet;
- Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first-floor level up to the highest level of the scaffolding;
- Any skip hoist for material transport should be totally enclosed by impervious sheeting;
- Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;
- Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high-level alarm which is interlocked with the material filling line and no overfilling is allowed;
- Construction plant and equipment should be connected to mains electricity supply and avoid use of diesel generators and diesel-powered equipment as far as practicable;
- Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system;
- Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shortcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.
- Avoid using exempted Non-Road Mobile Machinery (NRMMs) where practicable; and
- Implement phasing of the construction works.

Operational Phase

- 5.2.2 In order to mitigate adverse air quality and odour impacts, the following general mitigation measures will be put in place where appropriate:
 - (i) Vehicle Emissions from Existing and Planned Open Roads
 - Provide adequate buffer distance in accordance with Hong Kong Planning Standards and Guidelines requirements, tree planting and dense shrub plantation, where appropriate, to separate the pedestrians and heavily trafficked roads.
 - (ii) Vehicle Emissions from Existing and Planned PTIs, Bus Termini and Public Parking
 - Design of planned PTIs should be in accordance with the PN1/22 Practice Note for Control of Air Pollution in Semi-Confined Public Transport Interchanges;
 - Adequate ventilation and dilution of vehicle exhaust should be provided; and

- Exhaust air outlets, if any, should be located away from ASRs.
- (iii) Industrial Emissions from Existing and Planned Chimneys
 - Provide adequate buffer distance between chimneys and ASRs.
- (iv) Odour Impact from Existing Livestock Farms
 - Use of active carbon filter at fresh air intake and locate the fresh air intake at a higher level, e.g., rooftop; and
 - Remove farms if necessary.
- (v) Odour Impact from Revamped Seafood Market
 - Use of active carbon filter at fresh air intake and locate the fresh air intake at a higher level, e.g., rooftop.
 - Designing the revamped seafood market to be fully enclosed and mechanically ventilated. The air inside the market would be expelled to the ambient environment through ventilation exhausts equipped with deodorizing units;
 - Maximising the separation distances between exhaust outlets and the nearby ASRs;
 - Conducting activities such as loading and unloading of products inside the revamped seafood market to contain potential odours;
 - Storing organic waste in refuse bins with tight-fitting lids. All refuse should be frequently collected and disposed of by waste collectors; and
 - Conduct frequent cleaning of floors and equipment, such as containers, in the market using water spraying.
- (vi) Odour Impact from Existing and Planned SPS and Planned STW
 - Design should be in accordance with DSD's Standard Design on SPS, with all pumps located underground and enclosed within a structure/building, where appropriate;
 - Locate the SPS/STW away from ASRs as far as possible; and
 - Deodorization system should be installed and good housekeeping practice should be adopted.

5.3 Noise

Construction Phase

- 5.3.1 In order to mitigate adverse construction noise impacts, the following general mitigation measures will be put in place where appropriate:
 - Implementation of good site practices to limit noise emissions at source;
 - Use of Quality Powered Mechanical Equipment (QPME);
 - Use of quiet construction method;
 - Use of movable noise barrier and full enclosure for relatively fixed plant; and

- Scheduling of construction works outside school examination periods in critical area
- 5.3.2 Good site practice and noise management techniques could considerably reduce the noise impact from construction site activities on nearby NSRs. The following measures should be practised during each phase of construction:
 - Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme;
 - Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;
 - Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs;
 - Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;
 - Mobile plant should be sited as far away from NSRs as possible and practicable; and
 - Material stockpiles, site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.

Operational Phase

- 5.3.3 In order to mitigate adverse operational noise impacts, the following general mitigation measures will be put in place where appropriate:
 - (i) Road Traffic Noise
 - Adequate buffer zones with the NSRs;
 - Optimise building design in the proposed building scheme, including the use of central air conditioning system as possible to avoid open window ventilation for proposed mixed use;
 - Adopt alternative building orientation for some proposed schools;
 - Install barrier or enclosure along proposed roads or boundary wall along residential building boundary could be considered as prioritized means to provide effective screening to the affected units;
 - Adopt special building design (e.g., architectural fin, building orientation, noise tolerant building, podium, etc.) and other at-receiver mitigation measures (e.g., acoustic window, acoustic balcony, etc.) could be considered for some residential premises; and
 - Use Low Noise Road Surface (LNRS) on proposed roads when the material is suitable for the specific road condition.
 - (ii) Fixed Noise
 - Enclose all the pumps and noisy plants inside a building structure, including SPS, potential STW, district cooling system and depots, the revamped seafood market, etc.;
 - Proper selection of quiet plants aiming to reduce the tonality at NSRs; and

- Install silencers/ acoustic enclosure/ acoustic louvres at the intakes/exhausts to further minimise the noise impact.
- (iii) Railway Noise
 - The potential noise impacts from the planned HSWRL will need to be investigated in a separate EIA study by its project proponent and mitigation measures will be provided to ensure meeting the relevant criteria, as necessary.
- 5.3.4 The hierarchy for adopting the above noise mitigation measures should be agreed with the relevant authorities.

5.4 Water Quality

Construction Phase

- 5.4.1 In order to mitigate adverse construction water quality impacts, the following mitigation measures will be put in place where appropriate:
 - (i) General
 - Removal of waterbodies such as watercourse and ponds should be avoided as
 far as practicable. If work is unavoidable, adequate impact assessment with
 appropriate mitigation measures following ETWB TCW No. 5/2005, especially
 for watercourses and ponds with moderate ecological value, should be
 conducted.
 - (ii) General Construction Activities and Construction Site Runoff
 - Appropriate precautionary measures and guidelines specified in ProPECC PN 2/23 Construction Site Drainage should be followed to prevent site runoff from the nearby WSRs, watercourses, and Deep Bay. Effluent discharged from construction sites should comply with Technical Memorandum Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters (DSS-TM).
 - (iii) Construction Works in Close Proximity of Inland Water
 - Appropriate practices outlined in ETWB TCW No. 5/2005 should be adopted where applicable to minimise water quality impacts on nearby inland water including watercourses and ponds.
 - (iv) Tunnelling and Underground Works
 - Whilst conducting tunnelling works, appropriate water control strategies should be adopted to prevent groundwater table drawdown, including face confinement, probing ahead, and pre-grouting.
 - (v) Sewage from Workforce
 - Sewage discharge to drainage systems, watercourses, and marine waters are prohibited. Adequate portable chemical toilets should be provided to ensure all sewage is properly collected.
 - (vi) Accidental Spillage of Chemicals
 - Best practices of chemical storage practices such as storage under covered area, provision of secondary containment and material safety data sheets should be

applied. Spill kits should be provided to handle spillage and the staff should be trained for handling spillage.

(vii) Contaminated Groundwater and Wastewater

- If excavations take place below the groundwater table, there may be a need to dewater the pits for safety and construction purposes; and
- All the contaminated water should be collected, treated and disposed in a manner in compliance with DSS-TM and other relevant guidelines.

(viii) Diversion of Watercourses

Good site practices as described in ETWB TC(Works) No. 5/2005 "Protection
of natural streams/rivers from adverse impacts arising from construction works"
and ProPECC PN2/23 "Construction Site Drainage" should be implemented to
prevent adverse water quality impact to the surrounding environment and
downstream areas.

(ix) Runoff from Removal/Filling Ponds

 Water in existing ponds shall be sampled and pre-treated if required before discharge. Proper management of the drained water and sediment shall be implemented to prevent release to existing watercourses.

(x) Marine-based Works

- Sequencing of works and location of works shall be carefully optimised to minimise adverse impacts on the WSRs;
- Silt curtains should be deployed for dredging/marine works (if any); and
- Deploy suitable size of vessels to avoid/minimise undue turbidity generation from turbulence of vessel movement or propeller wash.

Operational Phase

5.4.2 In order to mitigate adverse operational water quality impacts, the following general mitigation measures will be put in place where appropriate:

(i) Stormwater Runoff

- Proper drainage systems with gullies, silt traps and manholes installed will be provided for the proposed development sites and roads, so that runoff will be intercepted and common site debris, refuse and fallen leaves etc. can be captured before allowing the runoff to drain into the nearby watercourses.
- (ii) Sewage from the Development (on-site STW and on-site reuse water facility will be provided);
 - The wastewater from the development should be pre-treated in the proposed STW to comply with EIAO-TM requirements before influx to the subsequent on-site reuse water facility.
 - Reuse of the treated sewage effluent generated from the proposed STW within
 the Project for non-potable uses such as toilet flushing, controlled irrigation and
 external cleaning use to conserve freshwater resources, with compliance of
 WSD Technical Specifications on Grey Water Reuse and Rainwater Harvesting
 requirements.

 A discharge license in accordance with the Water Pollution Control Ordinance (WPCO) should be applied by the operator before its operation. The effluent discharge should be assessed with methods agreed with EPD and comply with revised EIAO-TM wastewater treatment standards under Deep Bay WCZ., and it will be sited away from natural water courses.

(iii) Emergency Discharge from Planned On-site STW

• Given the sensitive nature of Deep Bay and nearby WSRs, contingency measures such as backup power supply, by-pass mechanism, and formulation of an Emergency Response Plan prior to the plant's commission should be implemented to minimise water quality impacts in case of emergency discharge.

(iv) District Cooling System

• Since the freshwater circulation of the proposed DCS for cooling will be in a closed circuit, there is no regular discharge for circuit water under normal operation. For the wastewater discharge under regular cleansing and/or maintenance, subject to further design, discharge standards should comply with the criteria agreed with EPD and a discharge license would be applied before its operation. The discharge effluent should be pre-treated to comply with WPCO requirement, and it will be sited away from natural water courses.

5.5 Waste Management Implications

Construction Phase

5.5.1 Recommended good site practices, waste reduction measures as well as the waste transportation, storage and collection are described in the following:

(i) Good Site Practice

- Nomination of an approved personnel, such as a site manager, to be responsible
 for the implementation of good site practices, arrangements for collection and
 effective disposal to an appropriate facility, of all wastes generated at the site;
- Training of site personnel in site cleanliness, appropriate waste management procedures and concepts of waste reduction, reuse and recycling;
- Provision of sufficient waste disposal points and regular collection for disposal;
- Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers;
- Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; and
- A Waste Management Plan (WMP) should be prepared by the contractor in accordance with ETWB TCW No. 19/2005 and submitted to the Engineer for approval.

(ii) C&D Material and Waste

- Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement;
- Carry out on-site sorting;

- Surplus artificial hard materials should be delivered to Tuen Mun Area 38 recycling plant or its successor for recycling into subsequent useful products;
- Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate;
- Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials is properly documented and verified; and
- Implement an enhanced Waste Management Plan similar to ETWB TC(W) No. 19/2005 "Environmental Management on Construction Sites" to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction.

(iii) General Refuse

• A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law.

(iv) Chemical Waste

- The chemical waste should be collected by licensed chemical waste collectors for subsequent disposal at licensed chemical waste disposal facilities, for example the Chemical Waste Treatment Centre (CWTC) in Tsing Yi; and
- Proper storage, collection, handling, transport and disposal of chemical waste will be managed in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Waste.

(v) Fishpond and Marine Sediment/Mud

- Standard good site practices should be implemented during the construction phase to minimise any potential exposure of contaminants from fishpond sediment/ mud to the workers and the associated potential impacts to the environment; and
- On-site cement stabilisation/solidification of the fishpond sediment/mud and on-site reuse would be proposed if necessary.

Operational Phase

- 5.5.2 The following measures should be implemented to minimise the amount of waste to be disposed of at landfill:
 - (i) Municipal Solid Waste
 - General refuse from residential and commercial buildings should be collected with lidded bins and delivered to a central collection point and stored in enclosed containers to prevent windblown, vermin, water pollution and visual impact. At least daily collection should be arranged by the waste collector.

(ii) Chemical Waste

Localized chemical waste storage areas should be located close to the source of
waste generation for temporary storage. Drum-type containers with proper
labelling should be used to collect chemical wastes for storage at the designated
areas;

- Chemical wastes should be stored in appropriate containers and collected by a licensed chemical waste contractor. All chemical wastes generated from laboratories should be dealt with according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes under the provisions of the Waste Disposal (Chemical Waste) (General) Regulation; and
- Chemical wastes should be disposed at an appropriate waste disposal facility, such as the CWTC in Tsing Yi.
- (iii) Screenings, Grits and Dewatered Sludge
 - The screenings, grits and dewatered sludge shall be delivered by land transport in watertight containers or skips to avoid odour emission during transportation. The solid waste unloading process shall be operated in the enclosed designated room inside the STW and served by negative pressure by extracting odorous gas to deodorising unit.

5.6 Land Contamination

5.6.1 Subject to the identification of any contaminated land, mitigation measures will be determined with reference to EPD's documents such as "Guidance Manual for Use of Risk-Based Remediation Goals (RBRGs) for Contaminated Land Management", "Guidance Note for Contaminated Land Assessment and Remediation", and "Practice Guide for Investigation and Remediation of Contaminated Land" during the EIA study.

5.7 Landfill Gas Hazard

5.7.1 There is neither existing nor closed landfill located close to the Project, and the Project is beyond the 250m CZ of WENT Landfill. Hence, there is no potential LFG hazard. LFG hazard assessment and mitigation measure are not required for the Project.

5.8 Hazard to Life

- 5.8.1 General measures listed below are proposed to minimize the risk:
 - Provision of emergency plan to construction workforce for efficient evacuation;
 - Optimization of routing for construction trucks to avoid pass though the LPG Station and planned Town Gas Station as far as practicable; and
 - Optimization of design layout of the buildings within the Project to avoid overlapping of the influence zone as far as practicable.

5.9 Ecology

5.9.1 Ecological impact assessment shall be carried out under the EIA study. Avoidance and minimisation of any direct impacts/disturbance to habitats and associated wildlife would be taken into account in the ecological impact assessment before the proposal of any mitigation measures.

- The PODP has mostly avoided recognised sites of conservation importance within or near the Assessment Area; these include TBT and PN SSSIs, Mai Po Nature Reserve, the Mai Po and Inner Deep Bay Ramsar Site, the Hong Kong Wetland Park Special Area, Priority Site under NNCP, WCA and CA. Development within WBA would be minimised as far as practicable. The EIA study will further assess the ecological impacts of the development within WBA.
- 5.9.3 The important intertidal wetland ecosystem comprised of fishponds, mangroves, seagrass beds and coastal mudflats in the Assessment Area is also avoided.
- 5.9.4 The future land uses would review the interface with CPP and ensure a buffer is suitably incorporated in the CPP.
- 5.9.5 The ardeid night roost and egretry near Shenzhen Bay Bridge would be protected under the CPP and land uses as needed. The Sha Kiu Tsuen Egretry is situated in an area that would be under the zoning of eco-tourism uses, as such no direct impacts to the breeding colony is anticipated. Likewise, the Fung Shui woodland at Ngau Hom Tsuen would also be preserved.
- 5.9.6 Protection from hill fire and erosion, as well as enrichment planting on remaining grassland and shrubland within the Project or Assessment Area should be implemented to increase the ecological value and carrying capacity, thus compensating for the direct loss of these habitats elsewhere in the Project. This could be conducted as an initiative under the urban forestry plan.
- 5.9.7 In order to avoid impacts of run-off causing pollution or sedimentation in the habitats adjacent to the Project Site, it will be necessary to implement standard construction site practices in these sites that limit run-off into adjacent water bodies. Generally, indirect water impact to any aquatic fauna during the construction phase should be avoided by implementing water control measures (ETWB TCW No. 5/2005) to avoid direct or indirect impacts any watercourses and good site practices.
- 5.9.8 Although local examples have demonstrated that breeding and roosting ardeids can tolerate certain levels of existing human disturbance, it is impossible to precisely predict their potential response to additional disturbance impacts. As such, in line with the precautionary principle, all direct and indirect impacts to theses colonies should be avoided, even though these colonies only support a low number of birds in general.
- 5.9.9 Specific flightline surveys will need to be carried out to establish the existing baseline condition regarding avifauna movement in the Assessment Area. Any proposed development will need to address the implications to avifauna flightline and provide appropriate mitigation measures where necessary.

5.10 Fisheries

5.10.1 Most of the fishponds within the Assessment Area would be preserved and zoned within the CPP. The anticipated fishpond loss would be kept to a minimum.

- 5.10.2 The existing Seafood Market would be revamped to strengthen and enhance the area as a local hotspot for residents and as a tourist attraction for experiencing the seafood culture in Hong Kong. It is believed that the attraction would create synergistic effects with the local fisheries industry (especially oyster culture), boosting sales and production.
- 5.10.3 Within the NDA, there is great potential for sustainable fisheries development. Potential initiatives include setting up of an oyster hatchery base and plants to enhance the safety and quality of local oysters; restoration of traditional oyster culture method on intertidal mudflat to create oyster reef; culturing saltwater fish species in inland ponds; investigating fish hatching and larval rearing techniques in brackish water ponds, etc.
- 5.10.4 In terms of farming, in view of the growing trend and demand for recreational and community farming initiatives, and taking into account the potential benefits and merits, initiatives could be taken to allow and promote recreational and community farming under suitable areas within the Project Site. Further studies would be required on the potential issues from recreational and community farming such as site selection, irrigation, drainage, structural capacity and loading of rooftop, public access, building façade, etc., with a view to ensuring proper development of recreational and community farms.
- 5.10.5 In general, strict construction procedure and good site practice as specified in the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 2023 (ProPECC PN 2/23) should be followed to prevent potential indirect impacts on the pond area.
- 5.10.6 As for surface run-off, implementation of the recommended mitigation measures for water quality impacts would prevent the adverse water quality impacts to the nearby environment.
- 5.10.7 Construction should be conducted in phases to reduce impacts to traffic flow. Temporary traffic arrangements should be instigated to maintain or provide alternative access to ponds during construction phase (should it be required). The detailed arrangement can be discussed with the contractor before the construction period. The access to the fish ponds will not be blocked in the operational phase.
- 5.10.8 Standard mitigation measures to control site runoff and other pollutants caused by construction activities and good site practices will be implemented during the construction phase of the Project. Excavated material and other inert construction wastes produced will be transferred to proper recipients.

5.11 Cultural Heritage

5.11.1 Cultural Heritage Impact Assessments (CHIA) including Archaeological Impact Assessments (AIA), Marine Archaeological Investigation (MAI) and Built Heritage Impact Assessments (BHIA) will be undertaken under the EIA as needed. CHIA will assess the potential direct and indirect impacts on cultural heritage and the impacts on cultural heritage will be avoided as far as practicable. If unavoidable, mitigation measures for the direct and indirect impacts on cultural heritage will be proposed and implemented with prior agreement with the Antiquities and Monuments Office (AMO).

5.12 Landscape and Visual

5.12.1 Possible key measures to reduce potential landscape and visual impacts include:

Mitigation Measures During Construction Phase

- (i) Landscape and Visual Mitigation Measures
 - Optimise construction activities, e.g., minimising extent of temporary works area, installing site hoardings and minimising illumination on non-target areas.
- (ii) Landscape Mitigation Measures
 - Tree preservation proposal;
 - Transplanting of existing affected trees; and
 - Prevention and restoration of natural watercourses and man-made channels.
- (iii) Visual Mitigation Measures
 - Erection of decorative construction hoardings; and
 - Management of facilities on work sites

Mitigation Measures During Operational Phase

- (i) Landscape and Visual Mitigation Measures
 - Provision of greening, lighting and aesthetic architectural design of aboveground structures to enhance landscape and visual aesthetic of the area in proximity;
 - Proposal of buffer planting;
 - Re-instatement of excavated area:
 - Compensatory tree planting for the proposed felled trees; and
 - Landscape re-instatement and establishment of new vegetation along the manmade slope areas.
- (ii) Visual Mitigation Measures
 - Reinstatement of streetscape elements;
 - Implement aesthetic design on noise barrier to reduce visual bulkiness and incorporate aesthetically pleasing surface treatments to promote visual amenity; and
 - Chromatic design in colour tone and non-reflective finishes and treatments of building façade and engineering structures should be visually unobtrusive and compatible with surrounding context.

6. Use of Previously Approved EIA Reports

6.1.1 Reference_may be made to the following previously approved EIA reports listed in **Table**6.1. The environmental aspects addressed in those approved EIA reports included air quality, noise, water quality, waste management, ecological, fishery, and landscape and visual impacts. The environmental impacts and measures recommended are referenced with nature, scale, location and surroundings of similar major sources and sensitive receivers.

Table 6.1 Reference of the previously approved EIA

Register No.	Title	Date of approval
AEIAR- 064/2002	Deep Bay Link	13 Sep 2002
AEIAR- 134/2009	Hang Hau Tsuen Channel at Lau Fau Shan	1 Apr 2009
AEIAR- 203/2016	Hung Shui Kiu New Development Area	15 Dec 2016

Drawings

