| Final Environmental Monitoring and Audit (EM&A) Review Report |
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| ANNEX C   |
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| ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)       |
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HONG KONG OFFSHORE LNG TERMINAL PROJECT

### TABLE C.1 IMPLEMENTATION SCHEDULE OF RECOMMENDED MITIGATION MEASURES

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental<br>Protection Measures/ Mitigation   | Location/ duration of recommended   | Implementation<br>Agent | Imple<br>Stag | ementa<br>e <sup>(1)</sup> | ation | Legislation &   | Implementation<br>Status  |
|------------------|-------------------|--|---|-------------------------|---------------|----------------------------|-------|---|---|
|                  |                   | Measures   | measures & timing of completion of recommended measures   |                         | D             | C                          | 0     | Guidelines  |   |
| Air Quality      |                   |  |   |                         |               |                            |       |   |   |
| S4.10.1          | S2.1              | Impervious sheet will be provided for skip hoist for material transport.   | Land sites for<br>GRSs within BPPS<br>and LPS / During<br>construction,<br>particularly dry<br>season | Contractor(s)           |               | <b>→</b>                   |       | Air Pollution<br>Control<br>(Construction<br>Dust) Regulation | ✓ for GRS in<br>BPPS<br>N/A for GRS in<br>LPS                                     |
| S4.10.1          | S2.1              | The area where dusty work takes place should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after dusty activities as far as practicable. | Land sites for<br>GRSs within BPPS<br>and LPS / During<br>construction                                | Contractor(s)           |               | <b>√</b>                   |       | Air Pollution<br>Control<br>(Construction<br>Dust) Regulation | Observations were given for GRS in BPPS  N/A for GRS in LPS                       |
| S4.10.1          | S2.1              | All dusty materials should be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation.   | Land sites for<br>GRSs within BPPS<br>and LPS / During<br>construction                                | Contractor(s)           |               | <b>√</b>                   |       | Air Pollution<br>Control<br>(Construction<br>Dust) Regulation | ✓ for GRS in BPPS  N/A for GRS in LPS  An observation was given for LPS  Pipeline |

<sup>(1)</sup> D = Design Phase; C = Construction Phase; O = Operational Phase

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental<br>Protection Measures/ Mitigation   | Location/ duration of recommended                                      | Implementation<br>Agent | Imple<br>Stag |          | ation | Relevant<br>Legislation &                                     | Implementation<br>Status  |
|------------------|-------------------|--|--|-------------------------|---------------|----------|-------|---|---|
|                  |                   | Measures   | measures & timing of completion of recommended measures                |                         | D             | С        | 0     | Guidelines  |   |
| S4.10.1          | S2.1              | Dropping heights for excavated materials should be controlled to a practical height to minimise the fugitive dust arising from unloading.  | Land sites for<br>GRSs within BPPS<br>and LPS / During<br>construction | Contractor(s)           |               | <b>✓</b> |       | Air Pollution<br>Control<br>(Construction<br>Dust) Regulation | ✓ for GRS in<br>BPPS<br>N/A for GRS in<br>LPS                             |
| S4.10.1          | S2.1              | During transportation by truck, materials should not be loaded to a level higher than the side and tail boards, and should be dampened or covered before transport.  | Land sites for<br>GRSs within BPPS<br>and LPS / During<br>construction | Contractor(s)           |               | <b>√</b> |       | Air Pollution<br>Control<br>(Construction<br>Dust) Regulation | N/A   |
| S4.10.1          | S2.1              | Wheel washing device should be provided at the exits of the work sites. Immediately before leaving a construction site, every vehicle shall be washed to remove any dusty material from its body and wheels as far as practicable. | Land sites for<br>GRSs within BPPS<br>and LPS / During<br>construction | Contractor(s)           |               | •        |       | Air Pollution<br>Control<br>(Construction<br>Dust) Regulation | Observations and reminders were given for GRS in BPPS  N/A for GRS in LPS |
| S4.10.1          | S2.1              | Road sections between vehicle-<br>wash areas and vehicular<br>entrance will be paved.  | Land sites for<br>GRSs within BPPS<br>and LPS / During<br>construction | Contractor(s)           |               | <b>√</b> |       | Air Pollution<br>Control<br>(Construction<br>Dust) Regulation | ✓ for GRS in<br>BPPS<br>N/A for GRS in<br>LPS                             |
| S4.10.1          | S2.1              | Haul roads will be kept clear of dusty materials and will be sprayed with water so as to   | Land sites for<br>GRSs within BPPS                                     | Contractor(s)           |               | ✓        |       | Air Pollution<br>Control                                      | An observation and a reminder   |

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation   | Location/ duration of recommended                                      | Implementation<br>Agent                   | Imple<br>Stag | ement<br>e <sup>(1)</sup> | ation    | Legislation &  | Implementation<br>Status   |
|------------------|-------------------|---|--|---|---------------|---------------------------|----------|--|--|
|                  |                   | Measures  | measures & timing of completion of recommended measures                |   | D             | С                         | 0        | Guidelines   |  |
|                  |                   | maintain the entire road surface wet at all times.  | and LPS / During construction  |   |               |                           |          | (Construction<br>Dust) Regulation  | were given for<br>GRS in BPPS<br>N/A for GRS in<br>LPS                   |
| S4.10.1          | S2.1              | Temporary stockpiles of dusty materials will be either covered entirely by impervious sheets or sprayed with water to maintain the entire surface wet all the time. | Land sites for<br>GRSs within BPPS<br>and LPS / During<br>construction | Contractor(s)                             |               | •                         |          | Air Pollution<br>Control<br>(Construction<br>Dust) Regulation                          | Observations and reminder were given for GRS in BPPS  N/A for GRS in LPS |
| S4.10.1          | S2.1              | Stockpiles of more than 20 bags of cement and dusty construction materials will be covered entirely by impervious sheeting sheltered on top and 3-sides.            | Land sites for<br>GRSs within BPPS<br>and LPS / During<br>construction | Contractor(s)                             |               | ✓                         |          | Air Pollution<br>Control<br>(Construction<br>Dust) Regulation                          | N/A  |
| S4.10.1          | S2.1              | All exposed areas will be kept wet to minimise dust emission.   | Land sites for<br>GRSs within BPPS<br>and LPS / During<br>construction | Contractor(s)                             |               | <b>√</b>                  |          | Air Pollution<br>Control<br>(Construction<br>Dust) Regulation                          | ✓ for GRS in<br>BPPS<br>N/A for GRS in<br>LPS                            |
| S4.10.1          | S2.1              | Ultra-low-sulphur diesel (ULSD),<br>defined as diesel fuel containing<br>not more than 0.005% sulphur by  | Land sites for<br>GRSs within BPPS<br>and LPS / During                 | Contractor(s) /<br>CAPCO / HK<br>Electric |               | <b>√</b>                  | <b>√</b> | Environment,<br>Transport and<br>Works Bureau<br>Technical Circular<br>(ETWB-TC(W)) No | ✓ for GRS in BPPS  |

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation   | Location/ duration of recommended                                      | Implementation<br>Agent               | Imple<br>Stag | ement    | ation | Relevant<br>Legislation &                                     | Implementation<br>Status  |
|------------------|-------------------|---|--|---------------------------------------|---------------|----------|-------|---|---|
|                  |                   | Measures  | measures & timing of completion of recommended measures                |                                       | D             | С        | 0     | Guidelines  |   |
|                  |                   | weight, will be used for all construction plant on-site.  | construction/ During operation   |                                       |               |          |       | 19/2005 on Environmental Management on Construction Sites     | N/A for GRS in<br>LPS   |
| S4.10.1          | S2.1              | The engine of the construction equipment during idling will be switched off.                                      | Land sites for<br>GRSs within BPPS<br>and LPS / During<br>construction | Contractor(s)                         |               | <b>√</b> |       | Air Pollution<br>Control<br>(Construction<br>Dust) Regulation | ✓ for GRS in<br>BPPS<br>N/A for GRS in<br>LPS   |
| S4.10.1          | S2.1              | Regular maintenance of construction equipment deployed on-site will be conducted to prevent black smoke emission. | Land sites for<br>GRSs within BPPS<br>and LPS / During<br>construction | Contractor(s)                         |               | *        |       | Air Pollution<br>Control<br>(Construction<br>Dust) Regulation | ✓ for GRS in BPPS  N/A for GRS in LPS  A reminder was given for marine-based works for LPS Pipeline  Observations were given for BPPS Pipeline, LPS Pipeline and LNG Terminal |
| S4.10.1          | S2.1              | All marine vessels fuelled in Hong<br>Kong are required to operate  | Marine sites for the LNG Terminal, the BPPS Pipeline and               | Contractor(s) /<br>Project Proponents |               | ✓        | ✓     | Air Pollution<br>Control (Marine                              | ✓ for BPPS Pipeline, LPS  |

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation  | Location/ duration of recommended  | Implementation<br>Agent  | Imple<br>Stag | ement    | ation    | Relevant<br>Legislation &   | Implementation<br>Status  |
|------------------|-------------------|--|--|--|---------------|----------|----------|---|---|
|                  |                   | Measures  using marine light diesel with   | measures & timing of completion of recommended measures the LPS Pipeline /   |  | D             | С        | 0        | Guidelines  | Dis align and LNC   |
|                  |                   | sulphur content lower than 0.05%.  | During construction/ During operation  |  |               |          |          | Light Diesel)<br>Regulation   | Pipeline and LNG<br>Terminal  |
| S4.10.1          | S2.1              | Non-road mobile machinery (NRMMs), e.g. mobile generator and air compressor, shall comply with the prescribed emission standards and approved with a proper label by EPD.  | Land sites for<br>GRSs within BPPS<br>and LPS and<br>marine sites for the<br>LNG Terminal, the<br>BPPS Pipeline and<br>the LPS Pipeline /<br>During construction | Contractor(s)  |               | <b>√</b> |          | Air Pollution<br>Control (Non-road<br>Mobile Machinery)<br>(Emission)<br>Regulation | Observations were given for GRS in BPPS  ✓ for BPPS Pipeline  N/A for GRS in LPS, LNG Terminal and LPS Pipeline |
| S4.10.1          | S2.1              | To ensure proper implementation of the recommended dust mitigation measures and good construction site practices during the construction phase of the GRSs and the BPPS and the LPS, environmental site audits on monthly basis is recommended throughout the construction period. | Land sites for<br>GRSs within BPPS<br>and LPS / During<br>construction   | Contractor(s)/<br>Environmental Team<br>(ET) & Independent<br>Environmental<br>Checker (IEC) |               | <b>✓</b> |          | -   | ✓ for GRS in BPPS ✓ for GRS in LPS  |
| S4.10.2          | S2.2              | LNGCs shall comply with the fuel restriction requirement under the Air Pollution Control (Ocean  | Marine site for the LNG Terminal / During operation  | HKLTL  |               |          | <b>√</b> | Air Pollution<br>Control (Ocean<br>Going Vessels)                                   | N/A   |

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation   | Location/ duration of recommended  | Implementation<br>Agent                   | Imple<br>Stag | ement    | ation    | Relevant<br>Legislation &     | Implementation<br>Status           |
|------------------|-------------------|---|--|---|---------------|----------|----------|-------------------------------|------------------------------------|
|                  |                   | Measures  | measures & timing of completion of recommended measures                                      |   | D             | С        | 0        | Guidelines                    |                                    |
|                  |                   | Going Vessels) (Fuel at berth) Regulation.  |  |   |               |          |          | (Fuel at berth)<br>Regulation |                                    |
| Hazard to L      | ife.              |   |  |   |               |          |          |                               |                                    |
| S5.3.3           | S3                | All personnel within the BPPS shall comply with CLP safety policy and requirements.   | Land site for the<br>GRS within BPPS /<br>During construction<br>/ During operation          | Contractor(s) /<br>CAPCO                  |               | <b>√</b> | <b>✓</b> | -                             | <b>*</b>                           |
| S5.3.3           | S3                | All personnel within the LPS shall comply with HK Electric safety policy and requirements.  | Land site for the<br>GRS within LPS /<br>During construction<br>/ During operation           | Contractor(s) / HK<br>Electric            |               | <b>√</b> | <b>✓</b> | -                             | N/A                                |
| S5.3.3           | S3                | All operation work procedures shall be complied with the operating plant procedures or guidelines and regulatory requirements.    | Land sites for<br>GRSs within BPPS<br>and LPS / During<br>construction /<br>During operation | Contractor(s) /<br>CAPCO / HK<br>Electric |               | <b>√</b> | <b>✓</b> | -                             | ✓ for GRS in BPPS ✓ for GRS in LPS |
| S5.3.3           | S3                | All personnel shall be equipped with appropriate personal protective equipment (PPE) when working at the BPPS and LPS facilities. | Land sites for<br>GRSs within BPPS<br>and LPS / During<br>construction /<br>During operation | Contractor(s) /<br>CAPCO / HK<br>Electric |               | <b>√</b> | <b>*</b> | -                             | ✓ for GRS in BPPS ✓ for GRS in LPS |
| S5.3.3           | S3                | Safety training and briefings shall be provided to all personnel.   | Land sites for<br>GRSs within BPPS<br>and LPS / During                                       | Contractor(s) /<br>CAPCO / HK<br>Electric |               | <b>√</b> | <b>√</b> | -                             | ✓ for GRS in BPPS ✓ for GRS in LPS |

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation   | Location/ duration of recommended   | Implementation<br>Agent                   | Imple<br>Stag | ement<br>e <sup>(1)</sup> | ation    | Relevant<br>Legislation & | Implementation<br>Status           |
|------------------|-------------------|---|---|---|---------------|---------------------------|----------|---------------------------|------------------------------------|
|                  |                   | Measures  | measures & timing of completion of recommended measures                                     |   | D             | С                         | 0        | Guidelines                |                                    |
|                  |                   |   | construction /<br>During operation  |   |               |                           |          |                           |                                    |
| S5.3.3           | S3                | Regular site safety inspections/<br>audits shall be conducted.  | Land sites for<br>GRSs within BPPS<br>and LPS / During<br>construction/ During<br>operation | Contractor(s) /<br>CAPCO / HK<br>Electric |               | <b>✓</b>                  | <b>✓</b> | -                         | ✓ for GRS in BPPS ✓ for GRS in LPS |
| S5.3.3           | S3                | Method statements and risk assessments shall be prepared and safety control measures shall be in place before commencement of work.               | Land sites for<br>GRSs within BPPS<br>and LPS / During<br>construction                      | Contractor(s)                             |               | <b>√</b>                  |          | -                         | ✓ for GRS in BPPS ✓ for GRS in LPS |
| S5.3.3           | S3                | Work permit system, on-site pre-<br>work risk assessment and<br>emergency response procedure<br>shall be in place before<br>commencement of work. | Land sites for<br>GRSs within BPPS<br>and LPS / During<br>construction                      | Contractor(s)                             |               | <b>✓</b>                  |          | -                         | ✓ for GRS in BPPS ✓ for GRS in LPS |
| S5.3.3           | S3                | All construction workers shall be under close site supervision during the construction phase of the GRSs.   | Land sites for<br>GRSs within BPPS<br>and LPS / During<br>construction                      | Contractor(s)                             |               | <b>√</b>                  |          | -                         | ✓ for GRS in BPPS ✓ for GRS in LPS |
| S5.4.1           | S3                | An emergency response plan will be put in place which fully documents the procedures to be  | Transit of the LNGC and FSRU Vessel under Emergency   | HKLTL                                     |               |                           | <b>√</b> | -                         | N/A                                |

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation  | Location/ duration of recommended                       | Implementation<br>Agent | Imple<br>Stage | ement    | ation    | Legislation & | Implementation<br>Status |
|------------------|-------------------|--|---|-------------------------|----------------|----------|----------|---------------|--------------------------|
|                  |                   | Measures   | measures & timing of completion of recommended measures |                         | D              | С        | 0        | Guidelines    |                          |
|                  |                   | followed in the event of an emergency.   | Situation / During operation                            |                         |                |          |          |               |                          |
| \$5.3.3          | S3                | Method statements and risk assessments shall be prepared and safety control measures should be in place before the commencement of construction works.             | LNG Terminal /<br>During construction                   | Contractor(s)           |                | <b>*</b> |          | -             | <b>*</b>                 |
| \$5.3.3          | S3                | Work permit system, on-site pre-<br>work risk assessment and<br>emergency response procedure<br>shall be in place before<br>commencement of construction<br>works. | LNG Terminal /<br>During construction                   | Contractor(s)           |                | <b>✓</b> |          | -             | *                        |
| S5.3.3           | S3                | All construction workers shall be under close site supervision during the construction phase of the LNG Terminal.  | LNG Terminal /<br>During construction                   | Contractor(s)           |                | <b>√</b> |          | -             | ~                        |
| S5.3.3           | S3                | All personnel within the LNG Terminal shall comply with relevant safety policy and requirements.   | LNG Terminal /<br>During operation                      | HKLTL                   |                |          | <b>√</b> | -             | N/A                      |
| S5.3.3           | S3                | All operation work procedures shall be complied with relevant codes and standards (e.g.  | LNG Terminal /<br>During operation                      | HKLTL                   |                |          | <b>√</b> | -             | N/A                      |

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| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation  | Location/ duration of recommended                       | Implementation<br>Agent | Imple<br>Stag |          | ation    | Relevant<br>Legislation &                                  | Implementation<br>Status |
|------------------|-------------------|--|---|-------------------------|---------------|----------|----------|--|--------------------------|
|                  |                   | Measures   | measures & timing of completion of recommended measures |                         | D             | С        | 0        | Guidelines   |                          |
|                  |                   | SIGTTO) and regulatory requirements.   |   |                         |               |          |          |  |                          |
| S5.3.3           | S3                | Work permit system and emergency response procedure shall be in place.   | LNG Terminal /<br>During operation                      | HKLTL                   |               |          | ✓        | -  | N/A                      |
| \$5.3.3          | S3                | Robust and extended process control system, safety control system, fire-fighting system and security system shall be provided.   | LNG Terminal /<br>During operation                      | HKLTL                   |               |          | <b>✓</b> | -  | N/A                      |
| S5.3.3           | S3                | Sufficient and trained / competent staff shall be provided to operate the LNG Terminal.  | LNG Terminal /<br>During operation                      | HKLTL                   |               |          | ✓        | -  | N/A                      |
| \$5.3.3          | S3                | Regular safety inspections/audits shall be conducted.  | LNG Terminal /<br>During operation                      | HKLTL                   |               |          | <b>√</b> | -  | N/A                      |
| Noise            |                   |  |   |                         |               |          |          |  |                          |
| S6.7             | S4                | N/A  |   |                         |               |          |          |  | N/A                      |
| Water Quali      | •                 |  |   |                         |               |          |          |  |                          |
| S7.9.1           | S5                | A detailed hydrotesting procedure for subsea pipelines will be developed that will detail how the process will be carried out, how it will be carefully controlled and monitored, and how the intake | LNG Terminal /<br>During construction                   | Contractor(s)           |               | <b>√</b> |          | TM Standard under the WPCO, WPCO license requirements, WQO | <b>✓</b>                 |

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental<br>Protection Measures/ Mitigation  | Location/ duration of recommended  | Implementation<br>Agent | Imple<br>Stage | ementa<br>e <sup>(1)</sup> | ation | Legislation & | Implementation<br>Status                   |
|------------------|-------------------|---|--|-------------------------|----------------|----------------------------|-------|---------------|--|
|                  |                   | Measures  | measures & timing of completion of recommended measures  |                         | D              | C                          | 0     | Guidelines    |  |
|                  |                   | and subsequent discharge of the seawater will be managed. Water quality monitoring for commissioning hydrotest for the subsea pipelines is presented in Section 5.3.5 of the Updated EM&A Manual.         |  |                         |                |                            |       |               |  |
| S7.9.1           | S5                | Adoption of appropriate dredging and jetting rates, plant numbers and silt curtains at the plant and WSRs, where applicable ( <i>Table 7.18</i> of the EIA Report, reprovided as <i>Table A.2</i> below). | Marine Dredging &<br>Jetting for the<br>BPPS Pipeline and<br>the LPS Pipeline /<br>During construction | Contractor(s)           |                | <b>*</b>                   |       | -             | ✓ for BPPS Pipeline and LPS Pipeline       |
| S7.9.1           | S5                | Grab dredging can be conducted concurrently with one TSHD.  | Marine Dredging for<br>the BPPS Pipeline<br>and the LPS<br>Pipeline / During<br>construction           | Contractor(s)           |                | <b>√</b>                   |       | -             | N/A for BPPS Pipeline and LPS Pipeline     |
| S7.9.1           | S5                | One jetting machine will be working on each pipeline.  No more than two jetting machines will be working on BPPS pipeline.  | Marine Jetting for<br>the BPPS Pipeline<br>and the LPS<br>Pipeline / During<br>construction            | Contractor(s)           |                | <b>√</b>                   |       | -             | ✓ for LPS Pipeline<br>and BPPS<br>Pipeline |

| EIA<br>Reference    | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation   | Location/ duration of recommended   | Implementation<br>Agent | Imple<br>Stage | ementa<br>e <sup>(1)</sup> | ation | Legislation & | Implementation<br>Status   |
|---------------------|-------------------|---|---|-------------------------|----------------|----------------------------|-------|---------------|--|
|                     |                   | Measures  | measures & timing of completion of recommended measures   |                         | D              | O                          | 0     | Guidelines    |  |
| S7.9.1              | S5                | Cofferdam construction and removal at landfalls of BPPS and LPS (where required) should not be conducted concurrently with the nearby pipeline dredging sections (BPPS KP44.9 - 45.0 and LPS KP17.4-18.2). Silt curtain surrounding the works areas for cofferdam construction and removal at pipeline landfalls of the BPPS and the LPS should also be implemented.  | Pipeline landfalls<br>for the BPPS<br>Pipeline and the<br>LPS Pipeline /<br>During construction   | Contractor(s)           |                | <b>~</b>                   |       | -             | A reminder was<br>given for BPPS<br>Pipeline<br>N/A for LPS<br>Pipeline  |
| \$7.9.1/<br>\$7.9.2 | S5                | The following measures shall be followed for provision of silt curtain:  The silt curtain shall be formed and installed in such a way that tidal rise and fall are accommodated, with the silt curtains always extending from the surface to the bottom of the water column and held with anchor blocks.  Schematic diagrams on silt curtain deployment are provided in <i>Figures 7.4</i> and <i>7.5</i> of the EIA Report.  The contractor shall regularly inspect the silt curtains and check that they are moored and | Marine Dredging & Jetting for the BPPS Pipeline and the LPS Pipeline / During construction  Marine Maintenance Dredging (LNG Terminal) / During operation | Contractor(s)           |                | <b>\</b>                   | •     | -             | ✓ for 1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> and 5 <sup>th</sup> bullet points for BPPS Pipeline  Observation and reminders on the 4 <sup>th</sup> bullet point was given for BPPS Pipeline  ✓ for LPS Pipeline |

| EIA<br>Reference     | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation   | Location/ duration of recommended   | Implementation<br>Agent | Imple<br>Stage | ementa<br>e <sup>(1)</sup> | ation    | Relevant<br>Legislation & | Implementation<br>Status             |
|----------------------|-------------------|---|---|-------------------------|----------------|----------------------------|----------|---------------------------|--------------------------------------|
|                      |                   | Measures  | measures & timing of completion of recommended measures   |                         | D              | С                          | 0        | Guidelines                |                                      |
|                      |                   | marked to avoid danger to marine traffic.  Regular inspection on the integrity of the silt curtain should be carried out by the contractor and any damage to the silt curtain shall be repaired by the contractor promptly.  Relevant marine works shall only be undertaken when the repair is fixed to the satisfaction of the engineer. |   |                         |                |                            |          |                           |                                      |
| \$7.9.1 /<br>\$7.9.2 | S5                | All vessels should be well maintained and inspected before use to limit any potential discharges to the marine environment.   | Marine Dredging for<br>the BPPS Pipeline<br>and the LPS<br>Pipeline / During<br>construction  Marine Maintenance Dredging (LNG<br>Terminal) / During<br>operation | Contractor(s)           |                | <b>✓</b>                   | <b>✓</b> | -                         | ✓ for BPPS Pipeline and LPS Pipeline |
| S7.9.1               | S5                | All vessels must have a clean ballast system.   | Marine Dredging for<br>the BPPS Pipeline<br>and the LPS<br>Pipeline / During<br>construction  | Contractor(s)           |                | <b>√</b>                   |          | -                         | ✓ for BPPS Pipeline and LPS Pipeline |

| EIA<br>Reference     | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation   | Location/ duration of recommended   | Implementation<br>Agent | Imple<br>Stage | ementa<br>e <sup>(1)</sup> | ation    | Relevant<br>Legislation & | Implementation<br>Status                                   |
|----------------------|-------------------|---|---|-------------------------|----------------|----------------------------|----------|---------------------------|--|
|                      |                   | Measures  | measures & timing of completion of recommended measures   |                         | D              | С                          | 0        | Guidelines                |  |
| \$7.9.1 /<br>\$7.9.2 | S5                | No overflow is permitted from the trailing suction hopper dredger and the Lean Mixture Overboard (LMOB) system will only be in operation at the beginning and end of the dredging cycle when the drag head is being lowered and raised. | Marine Dredging for<br>the BPPS Pipeline<br>and the LPS<br>Pipeline / During<br>construction  Marine Maintenance Dredging (LNG<br>Terminal) / During<br>operation | Contractor(s)           |                | <b>✓</b>                   | <b>✓</b> | -                         | ✓ for BPPS Pipeline and LPS Pipeline                       |
| \$7.9.1 /<br>\$7.9.2 | S5                | Dredged marine mud will be disposed of in a gazetted marine disposal area in accordance with the Dumping at Sea Ordinance (DASO) permit conditions.   | Marine Dredging for<br>the BPPS Pipeline<br>and the LPS<br>Pipeline / During<br>construction  Marine Maintenance Dredging (LNG<br>Terminal) / During<br>operation | Contractor(s)           |                | <b>✓</b>                   | <b>✓</b> | -                         | ✓ for BPPS Pipeline and LPS Pipeline                       |
| \$7.9.1 /<br>\$7.9.2 | S5                | Dredgers will maintain adequate clearance between vessels and the seabed at all states of the tide and reduce operations speed to ensure that excessive turbidity is not generated by turbulence from                                   | Marine Dredging for<br>the BPPS Pipeline<br>and the LPS<br>Pipeline / During<br>construction  | Contractor(s)           |                | <b>√</b>                   | <b>√</b> | -                         | A reminder was given for LPS Pipeline  ✓ for BPPS Pipeline |

| EIA<br>Reference     | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation  | Location/ duration of recommended  | Implementation<br>Agent | Imple<br>Stag | ement    | ation    | Relevant<br>Legislation & | Implementation<br>Status                                       |
|----------------------|-------------------|--|--|-------------------------|---------------|----------|----------|---------------------------|--|
|                      |                   | Measures   | measures & timing of completion of recommended measures  |                         | D             | С        | 0        | Guidelines                |  |
|                      |                   | vessel movement or propeller wash.   | Marine Maintenance Dredging (LNG Terminal) / During operation  |                         |               |          |          |                           |  |
| \$7.9.1 /<br>\$7.9.2 | S5                | Marine works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site. Wastewater from potentially contaminated area on working vessels should be minimised and collected. These kinds of wastewater should be brought back to port and discharged at appropriate collection and treatment system. | Marine Dredging for<br>the BPPS Pipeline<br>and the LPS<br>Pipeline / During<br>construction /<br>During operation | Contractor(s)           |               | <b>✓</b> | <b>✓</b> | -                         | An observation was given for BPPS Pipeline  ✓ for LPS Pipeline |
| S7.9.1 /<br>S7.9.2   | S5                | No solid waste is allowed to be disposed overboard.  | Marine Dredging for<br>the BPPS Pipeline<br>and the LPS<br>Pipeline / During<br>construction /<br>During operation | Contractor(s)           |               | <b>√</b> | <b>√</b> | -                         | ✓ for BPPS Pipeline and LPS Pipeline                           |
| S7.9.1               | S5                | Appropriate infiltration control, such as cofferdam wall, should be adopted to limit groundwater inflow to the excavation works areas in the Project site.  Groundwater pumped out from  | Land sites &<br>drainages for GRSs<br>within BPPS and  | Contractor(s)           |               | <b>√</b> |          | -                         | A reminder was<br>given for GRS in<br>BPPS                     |

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation   | Location/ duration of recommended   | Implementation<br>Agent | Imple<br>Stag | ement<br>e <sup>(1)</sup> | ation | Relevant<br>Legislation &                         | Implementation<br>Status                                    |
|------------------|-------------------|---|---|-------------------------|---------------|---------------------------|-------|---|---|
|                  |                   | Measures  | measures & timing of completion of recommended measures                               |                         | D             | С                         | 0     | Guidelines  |   |
|                  |                   | excavation area should be discharged into the storm system via silt removal facilities.   | LPS / During construction   |                         |               |                           |       |   | N/A for GRS in<br>LPS                                       |
| S7.9.1           | S5                | Silt removal facilities such as silt traps or sedimentation facilities will be provided to remove silt particles from runoff to meet the requirements of the TM standard under the WPCO. The design of silt removal facilities will be based on the guidelines provided in ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit will be removed regularly. | Land sites & drainages for GRSs within BPPS and LPS / During construction             | Contractor(s)           |               | *                         |       | ProPECC PN<br>1/94, TM Standard<br>under the WPCO | Observations were given for GRS in BPPS  N/A for GRS in LPS |
| S7.9.1           | S5                | Earthworks to form the final surfaces will be followed up with surface protection and drainage works to prevent erosion caused by rainstorms.   | Land sites &<br>drainages for GRSs<br>within BPPS and<br>LPS / During<br>construction | Contractor(s)           |               | <b>√</b>                  |       | -   | N/A   |

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation  | Location/ duration of recommended   | Implementation<br>Agent | Imple<br>Stag | ement<br>e <sup>(1)</sup> | ation | Relevant<br>Legislation & | Implementation<br>Status  |
|------------------|-------------------|--|---|-------------------------|---------------|---------------------------|-------|---------------------------|---|
|                  |                   | Measures   | measures & timing of completion of recommended measures                               |                         | D             | С                         | 0     | Guidelines                |   |
| \$7.9.1          | S5                | Appropriate surface drainage will be designed and provided where necessary.  | Land sites &<br>drainages for GRSs<br>within BPPS and<br>LPS / During<br>construction | Contractor(s)           |               | <b>✓</b>                  |       | -                         | ✓ for GRS in<br>BPPS<br>N/A for GRS in<br>LPS                       |
| S 7.9.1          | S5                | The precautions to be taken at any time of year when rainstorms are likely together with the actions to be taken when a rainstorm is imminent or forecasted and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. | Land sites &<br>drainages for GRSs<br>within BPPS and<br>LPS / During<br>construction | Contractor(s)           |               | <b>√</b>                  |       | ProPECC PN 1/94           | A reminder was<br>given for GRS in<br>BPPS<br>N/A for GRS in<br>LPS |
| \$7.9.1          | S5                | Oil interceptors will be provided in the drainage system where necessary and regularly emptied to prevent the release of oil and grease into the storm water drainage system after accidental spillages.   | Land sites &<br>drainages for GRSs<br>within BPPS and<br>LPS / During<br>construction | Contractor(s)           |               | •                         |       | -                         | ✓ for GRS in<br>BPPS<br>N/A for GRS in<br>LPS                       |
| \$7.9.1          | S5                | Temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge, if any, will be adequately designed for the controlled release of storm flows.  | Land sites &<br>drainages for GRSs<br>within BPPS and<br>LPS / During<br>construction | Contractor(s)           |               | <b>√</b>                  |       | -                         | ✓ for GRS in<br>BPPS<br>N/A for GRS in<br>LPS                       |

| EIA<br>Reference     | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation  | Location/ duration of recommended   | Implementation<br>Agent  | Imple<br>Stag | ement    | ation    | Legislation & | Implementation<br>Status           |
|----------------------|-------------------|--|---|--------------------------|---------------|----------|----------|---------------|------------------------------------|
|                      |                   | Measures   | measures & timing of completion of recommended measures                               |                          | D             | С        | 0        | Guidelines    |                                    |
| S7.9.1               | S5                | The temporary diverted drainage, if any, will be reinstated to the original condition when the construction work has finished or when the temporary diversion is no longer required.   | Land sites &<br>drainages for GRSs<br>within BPPS and<br>LPS / During<br>construction | Contractor(s)            |               | <b>√</b> |          | -             | N/A                                |
| S7.9.1               | S5                | Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the construction workers over the construction site to prevent direct disposal of sewage into the water environment. No onsite discharge from these chemical toilets would be allowed. | Land sites &<br>drainages for GRSs<br>within BPPS and<br>LPS / During<br>construction | Contractor(s)            |               | <b>√</b> |          | -             | ✓ for GRS in BPPS ✓ for GRS in LPS |
| S 7.9.2              | S5                | Mitigation measures for maintenance dredging at the LNG Terminal in form of controlled dredging rate (maximum of 5,500m³ day⁻¹) as well as silt curtain should be implemented for the control of sediment dispersion and the protection of the nearby WSRs.                        | Marine Maintenance Dredging (LNG Terminal) / During operation                         | Contractor(s) /<br>HKLTL |               |          | <b>√</b> | -             | N/A                                |
| S 7.9.2 /<br>S9.11.3 | S5 / S7           | A project-specific contingency plan (including protocols for avoidance, containment, remediation and reporting   | Fuel spillage for the<br>LNG Terminal /<br>During operation                           | Contractor(s) /<br>HKLTL |               |          | <b>✓</b> |               | N/A                                |

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation   | Location/ duration of recommended   | Implementation<br>Agent  | Imple<br>Stag | ementa<br>e <sup>(1)</sup> | ation    | Relevant<br>Legislation &                                  | Implementation<br>Status                           |
|------------------|-------------------|---|---|--|---------------|----------------------------|----------|--|--|
|                  |                   | Measures  | measures & timing of completion of recommended measures   |  | D             | C                          | 0        | Guidelines   |  |
|                  |                   | accidental fuel spill event) will be prepared and implemented to contain and clean up the spilled or leaked fuels or chemicals at the LNG Terminal, surrounding waters and marine parks.  |   |  |               |                            |          |  |  |
| S7.12.1          | S5.2-S5.5         | Marine water quality monitoring at selected WSRs is recommended for marine dredging and jetting works for the pipeline construction.  | Designated<br>monitoring stations<br>as defined in EM&A<br>Manual / During<br>marine construction<br>period | Environmental Team<br>(ET)   |               | <b>✓</b>                   |          | -  | <b>√</b>   |
| S7.12.1          | \$5.2-\$5.5       | To ensure proper implementation of the recommended mitigation measures and good construction site practices during marine-based construction works, environmental site audits on a regular basis is recommended throughout the construction period. | Marine sites for the<br>LNG Terminal, the<br>BPPS Pipeline and<br>the LPS Pipeline /<br>During construction | Contractor(s)/<br>Environmental Team<br>(ET) & Independent<br>Environmental<br>Checker (IEC) |               | <b>√</b>                   |          | -  | ✓ for BPPS Pipeline, LPS Pipeline and LNG Terminal |
| S7.12.2          | S5.2-S5.5         | Water quality monitoring at the selected nearby WSRs is recommended for first year of operation of the LNG Terminal.  | During operation for<br>the LNG Terminal  | Environmental Team<br>(ET)/ HKLTL  |               |                            | <b>√</b> | TM Standard under the WPCO, WPCO license requirements, WQO | N/A  |

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental<br>Protection Measures/ Mitigation  | Location/ duration of recommended                             | Implementation<br>Agent              | Imple<br>Stage | ementa<br>e <sup>(1)</sup> | ation    | Relevant<br>Legislation &                                  | Implementation<br>Status   |
|------------------|-------------------|---|---|--------------------------------------|----------------|----------------------------|----------|--|--|
|                  |                   | Measures  | measures & timing of completion of recommended measures       |                                      | D              | C                          | 0        | Guidelines   |  |
| S7.12.2          | S5.2-S5.5         | During maintenance dredging at<br>the LNG Terminal, water quality<br>monitoring at the selected nearby<br>WSRs would be required.   | Marine Maintenance Dredging (LNG Terminal) / During operation | Contractor(s) /<br>HKLTL             |                |                            | <b>✓</b> | TM Standard under the WPCO, WPCO license requirements, WQO | N/A  |
| Waste Mana       |                   |   |   |                                      |                |                            |          |  |  |
| S8.5             | S6.2              | The contractor(s) will nominate approved personnel to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility of all wastes generated at the site.  | All areas / During construction / During operation            | Contractor(s)/<br>Project Proponents |                | <b>&gt;</b>                | >        |  | <b>✓</b>   |
| S8.5             | S6.2              | Good waste management practices should be implemented:  Training of site personnel in proper waste management and chemical handling procedures;  Separation of chemical wastes for special handling and appropriate treatment at the Chemical Waste Treatment Centre;  Encourage collection of aluminium cans and waste paper by individual collectors during construction with | All areas / During construction / During operation            | Contractor(s)/<br>Project Proponents |                | <b>*</b>                   | >        | -  | ✓ for 1 <sup>st</sup> , 3 <sup>rd</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> & 7 <sup>th</sup> bullet points for GRS in BPPS  ✓ for 1 <sup>st</sup> , 3 <sup>rd</sup> , 6 <sup>th</sup> & 7 <sup>th</sup> bullet points for GRS in LPS  ✓ for 1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> & 7 <sup>th</sup> bullet points for BPPS Pipeline |

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation   | Location/ duration of recommended                       | Implementation<br>Agent | Imple<br>Stag | ementa<br>e <sup>(1)</sup> | ation | Relevant<br>Legislation & | Implementation<br>Status   |
|------------------|-------------------|---|---|-------------------------|---------------|----------------------------|-------|---------------------------|--|
|                  |                   | Measures  | measures & timing of completion of recommended measures |                         | D             | С                          | 0     | Guidelines                |  |
|                  |                   | separate labelled bins provided to segregate these wastes from other general refuse by the workforce;  Any unused chemicals, and those with remaining functional capacity, be recycled as far as possible;  Prior to disposal of C&D materials, wood, steel and other metals will be separated, to the extent practical for re-use and/or recycling to reduce the quantity of waste to be disposed in a landfill;  Proper storage and site practices to reduce the potential for damage or contamination of construction materials; and  Plan and stock construction materials carefully to reduce amount of waste generated and avoid unnecessary generation of waste. |   |                         |               |                            |       |                           | ✓ for 1st bullet point for LPS Pipeline  ✓ for 1st, 2nd, 3rd, 5th, 6th & 7th bullet points for LNG Terminal  N/A for 2nd & 4th bullet points for GRS in BPPS  N/A for 2nd, 4th & 5th bullet points for GRS in LPS  N/A for 4th bullet point for BPPS Pipeline and LNG Terminal  N/A for 2nd to 7th bullet points for LPS Pipeline  Observation and reminder were given for GRS in BPPS |

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation   | Location/ duration of recommended                       | Implementation<br>Agent               | Imple<br>Stag | ementa<br>e <sup>(1)</sup> | ation    | Legislation & | Implementation<br>Status                                  |
|------------------|-------------------|---|---|---------------------------------------|---------------|----------------------------|----------|---------------|---|
|                  |                   | Measures  | measures & timing of completion of recommended measures |                                       | D             | С                          | 0        | Guidelines    |   |
|                  |                   |   |   |                                       |               |                            |          |               |   |
| S8.5             | Table 6.1         | The contractor(s) must provide sufficient waste disposal points. Wastes will be collected and removed from site in a timely manner.   | All areas / During construction / During operation      | Contractor(s) /<br>Project Proponents |               | <b>√</b>                   | <b>√</b> | -             | Observation and reminder were given for GRS in BPPS       |
| S8.5             | Table 6.1         | The contractor(s) will have appropriate measures to reduce windblown/ floating litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers. | All areas / During construction / During operation      | Contractor(s) /<br>Project Proponents |               | <b>√</b>                   | <b>*</b> | -             | N/A   |
| S8.5             | Table 6.1         | The contractor(s) will take and keep records of quantities of wastes generated, recycled and disposed of and the disposal sites.  | All areas / During construction / During operation      | Contractor(s) /<br>Project Proponents |               | <b>√</b>                   | <b>√</b> | -             | <b>✓</b>  |
| S8.5             | Table 6.1         | The contractor(s) must segregate and store different types of waste in different containers, skips or stockpiles to enhance reuse and recycling of material and proper disposal of waste.                 | All areas / During construction / During operation      | Contractor(s) /<br>Project Proponents |               | <b>√</b>                   | <b>√</b> | -             | A reminder was given for BPPS Pipeline  ✓ for GRS in BPPS |

# HONG KONG OFFSHORE LNG TERMINAL PROJECT Final Environmental Monitoring and Audit (EM&A) Review Report

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation  | Location/ duration of recommended                       | Implementation<br>Agent | Imple<br>Stage | ement    | ation | Relevant<br>Legislation &   | Implementation<br>Status  |
|------------------|-------------------|--|---|-------------------------|----------------|----------|-------|---|---|
|                  |                   | Measures   | measures & timing of completion of recommended measures |                         | D              | С        | 0     | Guidelines  |   |
|                  |                   |  |   |                         |                |          |       |   | N/A for GRS in<br>LPS, LPS Pipeline<br>and LNG Terminal                                   |
| S8.5             | S6.2              | The contractor(s) will use reusable non-timber formwork to reduce the amount of C&D materials.   | All areas / During construction                         | Contractor(s)           |                | <b>√</b> |       | -   | ✓ for GRS in<br>BPPS  N/A for GRS in<br>LPS, BPPS Pipeline, LPS Pipeline and LNG Terminal |
| S8.5             | Table 6.1         | The contractor(s) must ensure that all the necessary waste disposal and marine dumping permits or licences are obtained prior to the commencement of the construction works.           | During construction                                     | Contractor(s)           |                | <b>*</b> |       | -   | <b>✓</b>  |
| S8.5             | S6.2              | The contractor will open a billing account with EPD in accordance with the Waste Disposal (Charges for Disposal of Construction Waste) Regulation for the payment of disposal charges. | During construction                                     | Contractor(s)           |                | <b>✓</b> |       | Cap 354N Waste<br>Disposal (Charges<br>for Disposal of<br>Construction<br>Waste) Regulation | <b>✓</b>  |
| S8.5             | S6.2              | A trip-ticket system will be established in accordance with DEVB TC(W) No. 6/2010 to monitor the reuse of surplus  | During construction                                     | Contractor(s)           |                | ✓        |       | DEVB TC(W) No.<br>6/2010, Trip Ticket<br>System for<br>Disposal of                          | <b>√</b>  |

| EIA<br>Reference | EM&A<br>Reference | Protection Measures/ Mitigation Measures  | Location/ duration of recommended                       | Implementation<br>Agent              | Implementation<br>Stage (1) |          |          | Legislation &   | Implementation<br>Status |
|------------------|-------------------|---|---|--------------------------------------|-----------------------------|----------|----------|---|--------------------------|
|                  |                   |   | measures & timing of completion of recommended measures |                                      | D                           | С        | 0        | Guidelines  |                          |
|                  |                   | excavated materials off-site and disposal of construction waste and general refuse at transfer facilities/landfills, and to control fly-tipping.  |   |                                      |                             |          |          | Construction &<br>Demolition<br>Materials             |                          |
| S8.5             | S6.2              | A WMP as stated in the PNAP ADV-19 for the amount of waste generated, recycled and disposed of (including the disposal sites) will be established and implemented during the construction phase as part of the Environmental Management Plan (EMP). The Contractor will be required to prepare the EMP and submits it to the Architect/ Engineer under the Contract for approval prior to implementation. | All areas / During construction                         | Contractor(s)                        |                             | <b>*</b> |          | PNAP ADV-19   | <b>✓</b>                 |
| S8.5             | Table 6.1         | The management of dredged marine sediment requirement from <i>PNAP ADV-21</i> will be incorporated in the Contract for the construction and maintenance dredging during the operation of the Project.   | Marine works / During construction / During operation   | Contractor(s)/<br>Project Proponents |                             | <b>✓</b> | <b>√</b> | PNAP ADV-21 and<br>Dumping at Sea<br>Ordinance (DASO) | ~                        |
| S8.5/ S7.9       | S6.2 / S5         | Disposal vessels will be fitted with tight bottom seals in order to   | Dredged areas /<br>During construction                  | Contractor(s)/<br>Project Proponents |                             | <b>√</b> |          | Dumping at Sea<br>Ordinance (DASO)                    | 1                        |

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation  | Location/ duration of recommended                       | Implementation<br>Agent              | Imple<br>Stag | ement<br>e <sup>(1)</sup> | ation | Relevant<br>Legislation &          | Implementation<br>Status   |
|------------------|-------------------|--|---|--------------------------------------|---------------|---------------------------|-------|------------------------------------|--|
|                  |                   | Measures   | measures & timing of completion of recommended measures |                                      | D             | С                         | O     | Guidelines                         |  |
|                  |                   | prevent leakage of material during transport.  |   |                                      |               |                           |       |                                    |  |
| S8.5/ S7.9       | S6.2 / S5         | Barges will be filled to a level, which ensures that of marine sediment and marine sediment laden water does not spill over during loading or transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action. | Dredged areas /<br>During construction                  | Contractor(s)/<br>Project Proponents |               | <b>√</b>                  |       | Dumping at Sea<br>Ordinance (DASO) | Observations were given for BPPS Pipeline  A reminder was given for LPS Pipeline |
| S8.5/ S7.9       | S6.2 / S5         | After dredging, any excess materials will be cleaned from decks and exposed fittings before the vessel is moved from the dredging area.  | Dredged areas /<br>During construction                  | Contractor(s)/<br>Project Proponents |               | •                         |       | Dumping at Sea<br>Ordinance (DASO) | Observations were given for BPPS Pipeline A reminder was given for LPS Pipeline  |
| S8.5/ S7.9       | S6.2 / S5         | When the dredged material has been unloaded at the disposal areas, any material that has accumulated on the deck or other exposed parts of the vessel will be removed and placed in the hold or a hopper. Under no circumstances will decks be washed clean in a way that      | Dredged areas / During construction                     | Contractor(s)/<br>Project Proponents |               | <b>√</b>                  |       |                                    | Observations were given for BPPS Pipeline  A reminder was given for LPS Pipeline |

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation   | Location/ duration of recommended                       | Implementation<br>Agent              | Imple<br>Stag | ement<br>e <sup>(1)</sup> | ation    | Relevant<br>Legislation &   | Implementation<br>Status       |
|------------------|-------------------|---|---|--------------------------------------|---------------|---------------------------|----------|---|--------------------------------|
|                  |                   | Measures  | measures & timing of completion of recommended measures |                                      | D             | С                         | 0        | Guidelines  |                                |
|                  |                   | permits material to be released overboard.  |   |                                      |               |                           |          |   |                                |
| S8.5             | S6.2              | Dredgers will maintain adequate clearance between vessels and the seabed at all states of the tide and reduce operations speed to ensure that excessive turbidity is not generated by turbulence from vessel movement or propeller wash.  | Dredged areas /<br>During construction                  | Contractor(s)/<br>Project Proponents |               | <b>√</b>                  |          |   | ✓                              |
| S8.5             | Table 6.1         | C&D materials will be segregated on-site into public fill and non-inert C&D materials and stored in different containers or skips to facilitate reuse of the public fill and proper disposal of the construction waste. Specific areas of the land and marine-based construction sites will be designated for such segregation and storage if immediate use is not practicable. Prefabrication will be adopted as far as practicable to reduce the construction waste arisings. | During construction                                     | Contractor(s)                        |               | <b>✓</b>                  |          | -   | ✓                              |
| \$8.5            | Table 6.1         | The contractor(s) will register as a chemical waste producer with the EPD. Chemical waste will be handled in accordance with the Code of Practice on the  | All areas / During construction / During operation      | Contractor(s)/<br>Project Proponents |               | <b>√</b>                  | <b>√</b> | Waste Disposal<br>(Chemical Waste)<br>(General)<br>Regulation; Code<br>of Practice on the | Reminder and observations were |

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental<br>Protection Measures/ Mitigation   | Location/ duration of recommended                       | Implementation<br>Agent              | Imple<br>Stage | ementa<br>e <sup>(1)</sup> | ation    | Relevant<br>Legislation &   | Implementation<br>Status   |
|------------------|-------------------|--|---|--------------------------------------|----------------|----------------------------|----------|---|--|
|                  |                   | Measures   | measures & timing of completion of recommended measures |                                      | D              | C                          | 0        | Guidelines  |  |
|                  |                   | Packaging, Labelling and Storage of Chemical Wastes.   |   |                                      |                |                            |          | Packaging,<br>Labelling and<br>Storage of<br>Chemical Wastes  | given for GRS in BPPS  ✓ for BPPS Pipeline, LPS Pipeline, GRS in LPS and LNG Terminal                |
| S8.5             | Table 6.1         | Containers used for storage of chemical wastes will:  Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; Have a capacity of less than 450 L unless the specifications have been approved by the EPD; and Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Regulations. | All areas / During construction / During operation      | Contractor(s)/<br>Project Proponents |                | <b>✓</b>                   | <b>✓</b> | Waste Disposal<br>(Chemical Waste)<br>(General)<br>Regulation; Code<br>of Practice on the<br>Packaging,<br>Labelling and<br>Storage of<br>Chemical Wastes |  |
| S8.5             | Table 6.1         | The storage area for chemical wastes will:   | All areas / During construction / During operation      | Contractor(s)/<br>Project Proponents |                | <b>√</b>                   | ✓        | Waste Disposal<br>(Chemical Waste)<br>(General)<br>Regulation; Code   | ✓ for 1 <sup>st</sup> , 2 <sup>nd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> & 6 <sup>th</sup> bullet |

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental<br>Protection Measures/ Mitigation   | Location/ duration of recommended                       | Implementation<br>Agent | Imple<br>Stag | ementa<br>e <sup>(1)</sup> | ation | Relevant<br>Legislation &  | Implementation<br>Status  |
|------------------|-------------------|--|---|-------------------------|---------------|----------------------------|-------|--|---|
|                  |                   | Measures   | measures & timing of completion of recommended measures |                         | D             | С                          | 0     | Guidelines   |   |
|                  |                   | <ul> <li>Be clearly labelled and used solely for the storage of chemical waste;</li> <li>Be enclosed on at least 3 sides;</li> <li>Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest;</li> <li>Have adequate ventilation;</li> <li>Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and</li> <li>Be arranged so that incompatible materials are appropriately separated.</li> </ul> |   |                         |               |                            |       | of Practice on the<br>Packaging,<br>Labelling and<br>Storage of<br>Chemical Wastes | points for BPPS Pipeline  ✓ for 1st bullet point for LPS Pipeline  ✓ for 1st, 2nd, 4th, 5th & 6th bullet points for GRS in BPPS  An observation was given for 3rd bullet point for BPPS Pipeline  An observation was given for 3rd bullet point for LPS Pipeline  Reminder and observations were given for 3rd bullet point for LPS Pipeline  Reminder and observations were given for 3rd bullet point for GRS in BPPS  N/A for 2nd, 4th to 6th bullet points for LPS Pipeline |

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation  | Location/ duration of recommended                       | Implementation<br>Agent              | Imple<br>Stage | ementa<br>e <sup>(1)</sup> | ation    | Relevant<br>Legislation &   | Implementation<br>Status  |
|------------------|-------------------|--|---|--------------------------------------|----------------|----------------------------|----------|---|---|
|                  |                   | Measures   | measures & timing of completion of recommended measures |                                      | D              | С                          | 0        | Guidelines  |   |
|                  |                   |  |   |                                      |                |                            |          |   | N/A for LNG<br>Terminal   |
| S8.5             | Table 6.1         | Chemical waste will be disposed of:  Via a licensed waste collector; and To a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Facility which also offers a chemical waste collection service and can supply the necessary storage containers.  | All areas / During construction / During operation      | Contractor(s)/<br>Project Proponents |                | <b>✓</b>                   | <b>✓</b> | Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes | N/A   |
| S8.5             | Table 6.1         | General refuse (including the floating refuse collected) will be stored in enclosed bins separately from C&D materials and chemical wastes. Floating refuse will be collected on an 'as needed' basis for disposal as general refuse. Workers will be prohibited from throwing rubbish into the sea and adequate bins will be provided on both land and marine-based sites and marine vessels. General refuse will be delivered separately from C&D materials and chemical | All areas / During construction / During operation      | Contractor(s)/<br>Project Proponents |                | <b>√</b>                   | *        | -   | A reminder and an observation were given for GRS in BPPS  Reminders were given for BPPS  Pipeline |

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|------------------|-------------------|--|---|--------------------------------------|---------------|----------------------------|----------|---------------|--|
|                  |                   | Measures   | measures & timing of completion of recommended measures |                                      | D             | C                          | 0        | Guidelines    |  |
|                  |                   | wastes for offsite disposal on a regular basis to reduce odour, pest and litter impacts. General refuse from the marine vessels will be collected and disposed on shore.   |   |                                      |               |                            |          |               |  |
| S8.5             | Table 6.1         | Recycling bins will be provided at strategic locations within the land and marine-based construction site and marine vessels to facilitate recovery of recyclable materials (including aluminium can, waste paper, glass bottles and plastic bottles) from the Project Site. Materials recovered will be sold for recycling. | All areas / During construction / During operation      | Contractor(s)/<br>Project Proponents |               | ~                          | <b>✓</b> | -             | An observation was given for GRS in BPPS  A reminder was given for BPPS Pipeline  N/A for LPS Pipeline and LNG Terminal  N/A for material recovered being sold for recycling |
| S8.5             | S6.2              | To avoid any odour and litter impact, appropriate number of portable toilets will be provided for workers on-site.   | All areas / During construction / During operation      | Contractor(s)                        |               | <b>√</b>                   | <b>V</b> | -             | <b>✓</b>   |

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation   | Location/ duration of recommended                       | Implementation<br>Agent  | Imple<br>Stag | ement<br>e <sup>(1)</sup> | ation | Relevant<br>Legislation & | Implementation<br>Status |
|------------------|-------------------|---|---|--|---------------|---------------------------|-------|---------------------------|--------------------------|
|                  |                   | Measures  | measures & timing of completion of recommended measures |  | D             | С                         | 0     | Guidelines                |                          |
| S8.5             | S6.2              | At the commencement of the construction works and operations, training will be provided to workers on the concepts of site cleanliness and on appropriate waste management procedures, including waste reduction, reuse and recycling. In particular, the training will emphasize no dumping of waste into the sea is allowed, particularly at marine-based work sites and on marine vessels. | All areas / During construction / During operation      | Contractor(s)/<br>Project Proponents   |               | •                         | ·     | -                         | <b>✓</b>                 |
| S8.5             | S6.2              | Industrial waste arising from maintenance activities will be segregated. Scrap metals and recyclables will be sent for recycling to reduce the overall quantity of waste disposed from these activities.  | All areas / During operation                            | Project Proponents   |               |                           | •     | -                         | N/A                      |
| S8.7             | S6.1              | It is recommended that monthly audits of the waste management practices be carried out during the construction phase land-based work sites (at the GRSs at the BPPS and the LPS), and at marine-based work sites (on marine vessels and Jetty) to determine if wastes are being   | All areas / During construction                         | Contractor(s)/<br>Environmental Team<br>(ET) & Independent<br>Environmental<br>Checker (IEC) |               | <b>✓</b>                  |       | -                         | *                        |

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|------------------|-------------------|---|---|---------------------------------------|---------------|----------------------------|----------|---------------------------|--------------------------|
|                  |                   | Measures  | measures & timing of completion of recommended measures |                                       | D             | O                          | 0        | Guidelines                |                          |
|                  |                   | managed in accordance with the recommended good site practices and WMP. The audits will include all aspects of waste management including waste generation, storage, handling, recycling, transportation and disposal, to prevent any dumping of waste into the sea or malpractice of waste disposal. |   |                                       |               |                            |          |                           |                          |
| Ecology          |                   |   |   |                                       |               |                            |          |                           |                          |
| S9.11.2          | S7                | The vessel operators will be required to control and manage all effluent from vessels. These kinds of wastewater shall be brought back to port where possible and discharged at appropriate collection and treatment system to prevent avoidable water quality impact.                                | Marine works / During construction / During operation   | Contractor(s)/<br>Project Proponents  |               | <b>√</b>                   | <b>√</b> | -                         | *                        |
| S9.11.2          | S7                | A policy of no dumping of rubbish, food, oil, or chemicals will be strictly enforced. This will also be covered in the contractor briefings.  | Marine works / During construction / During operation   | Contractor(s) /<br>Project Proponents |               | <b>√</b>                   | <b>√</b> | -                         | <b>√</b>                 |

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|------------------|-------------------|---|---|---------------------------------------|---------------|----------|----------|---------------------------|--------------------------|
|                  |                   | Measures  | measures & timing of completion of recommended measures   |                                       | D             | С        | 0        | Guidelines                |                          |
| S9.11.2          | S7                | Only well-maintained and inspected vessels would be used to limit any potential discharges to the marine environment.   | Marine works / During construction / During operation   | Contractor(s) /<br>Project Proponents |               | <b>✓</b> | <b>*</b> | -                         | <b>✓</b>                 |
| S9.11.2          | S7                | Standard site practices outlined in<br>ProPECC PN 1/94 "Construction<br>Site Drainage" will be followed as<br>far as practicable in order to<br>reduce surface runoff, minimise<br>erosion, and also to retain and<br>reduce any SS prior to discharge. | Marine works / During construction / During operation   | Contractor(s) /<br>Project Proponents |               | •        | •        | ProPECC PN 1/94           | <b>√</b>                 |
| S9.11.3          | S7                | Pipeline dredging/ jetting works<br>between North of Tai O and Fan<br>Lau (BPPS KP21.3 to 15.6) will<br>avoid the peak months of Chinese<br>White Dolphin (CWD) calving<br>(May and June).  | Marine works (Dredging/ jetting works between North of Tai O and Fan Lau along the BPPS Pipeline) / During construction                 | Contractor(s)                         |               | •        |          | -                         | <b>✓</b>                 |
| \$9.11.3         | S7                | Pipeline dredging/ jetting works between South of Soko Islands and the LNG Terminal (BPPS KP8.9 to 0.0) will be restricted to a daily maximum of 12 hours with daylight (0700 – 1900) operations.   | Marine works (Dredging/ jetting works between South of Soko Islands and the LNG Terminal along the BPPS Pipeline) / During construction | Contractor(s)                         |               | <b>✓</b> |          | -                         | <b>✓</b>                 |

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation  | Location/ duration of recommended   | Implementation<br>Agent | Imple<br>Stag | ement<br>e <sup>(1)</sup> | ation | Relevant<br>Legislation & | Implementation<br>Status |
|------------------|-------------------|--|---|-------------------------|---------------|---------------------------|-------|---------------------------|--------------------------|
|                  |                   | Measures   | measures & timing of completion of recommended measures   |                         | D             | С                         | 0     | Guidelines                |                          |
| S9.11.3          | S7                | Pipeline dredging/ jetting from LNG Terminal to South of Shek Kwu Chau (LPS KP0.0 to 5.0) will be restricted to a daily maximum of 12 hours with daytime (0700 – 1900) operations.   | Marine works (Dredging/ jetting works between from LNG Terminal to South of Shek Kwu Chau along the LPS Pipeline) / During construction | Contractor(s)           |               | •                         |       | -                         | <b>✓</b>                 |
| S9.11.3          | S7                | Use of vibratory/ hydraulic pushing method to vibrate / push the open-ended steel tubular pile for the upper layer of the seabed and only use hydraulic hammer (if needed) to install the remainder of the pile length through the lower layer of the seabed. During underwater percussive piling works: | Marine works (Piling at the LNG Terminal) / During construction   | Contractor(s)           |               | <b>✓</b>                  |       | -                         |                          |

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation | Location/ duration of recommended                       | Implementation<br>Agent | Imple<br>Stag | ement | ation | Relevant<br>Legislation & | Implementation<br>Status |
|------------------|-------------------|---|---|-------------------------|---------------|-------|-------|---------------------------|--------------------------|
|                  |                   | Measures  | measures & timing of completion of recommended measures |                         | D             | С     | 0     | Guidelines                |                          |
|                  |                   | of low energy driving for a                               |   |                         |               |       |       |                           |                          |
|                  |                   | period of time prior to                                   |   |                         |               |       |       |                           |                          |
|                  |                   | commencement of full piling.                              |   |                         |               |       |       |                           |                          |
|                  |                   | This will promote avoidance                               |   |                         |               |       |       |                           |                          |
|                  |                   | of the area by marine                                     |   |                         |               |       |       |                           |                          |
|                  |                   | mammals when sounds                                       |   |                         |               |       |       |                           |                          |
|                  |                   | levels are not injurious. Blow                            |   |                         |               |       |       |                           |                          |
|                  |                   | frequency during this                                     |   |                         |               |       |       |                           |                          |
|                  |                   | ramping up period should                                  |   |                         |               |       |       |                           |                          |
|                  |                   | replicate the intensity that                              |   |                         |               |       |       |                           |                          |
|                  |                   | would be undertaken during                                |   |                         |               |       |       |                           |                          |
|                  |                   | full piling (e.g. one blow                                |   |                         |               |       |       |                           |                          |
|                  |                   | every two seconds) to                                     |   |                         |               |       |       |                           |                          |
|                  |                   | provide cues for marine                                   |   |                         |               |       |       |                           |                          |
|                  |                   | mammals to localize the                                   |   |                         |               |       |       |                           |                          |
|                  |                   | sound source. Pile blow                                   |   |                         |               |       |       |                           |                          |
|                  |                   | energy should be ramped up                                |   |                         |               |       |       |                           |                          |
|                  |                   | gradually over the 'soft start'                           |   |                         |               |       |       |                           |                          |
|                  |                   | period. Activities will be                                |   |                         |               |       |       |                           |                          |
|                  |                   | continuous without short-                                 |   |                         |               |       |       |                           |                          |
|                  |                   | breaks and avoiding sudden                                |   |                         |               |       |       |                           |                          |
|                  |                   | random loud sound   |   |                         |               |       |       |                           |                          |
|                  |                   | emissions;  |   |                         |               |       |       |                           |                          |
|                  |                   | Underwater percussive piling                              |   |                         |               |       |       |                           |                          |
|                  |                   | should be conducted inside a                              |   |                         |               |       |       |                           |                          |
|                  |                   | bubble curtain so as to                                   |   |                         |               |       |       |                           |                          |
|                  |                   | ameliorate underwater sound                               |   |                         |               |       |       |                           |                          |
|                  |                   | level transmission;                                       |   |                         |               |       |       |                           |                          |
|                  |                   | The percussive pile driving                               |   |                         |               |       |       |                           |                          |
|                  |                   | will be conducted during the                              |   |                         |               |       |       |                           |                          |
|                  |                   | daytime (0700 – 1900) for a                               |   |                         |               |       |       |                           |                          |
|                  |                   | maximum of 12 hours,                                      |   |                         |               |       |       |                           |                          |

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|------------------|-------------------|--|--|---------------------------------------|---------------|----------------------------|----------|---------------------------|--------------------------|
|                  |                   | Measures   | measures & timing of completion of recommended measures                              |                                       | D             | С                          | 0        | Guidelines                |                          |
|                  |                   | avoiding generation of underwater sounds at night time; and  • Underwater percussive piling works for the Jetty construction will avoid the peak season of FP (December to May).   |  |                                       |               |                            |          |                           |                          |
| S9.11.3          | S7                | The vessel operators of this Project will be required to use predefined and regular routes (that do not encroach into existing and proposed marine parks), make use of designated fairways to access the works areas, and would avoid traversing sensitive habitats such as existing and proposed marine parks (with the exception of the FSRU Vessel which will need to transit through the proposed SLMP during manoeuvring to the Jetty and after typhoon event due to its safe operational requirement). | Marine works / During construction / During operation                                | Contractor(s) /<br>Project Proponents |               | <b>✓</b>                   | <b>✓</b> | -                         | <b>*</b>                 |
| S9.11.3          | S7                | Any anchoring/ anchor spread requirements during Project construction will avoid encroachment into the existing and proposed marine parks, unless otherwise agreed by the  | Marine works (on existing, planned and potential marine parks) / During construction | Contractor(s)/<br>Project Proponents  |               | <b>√</b>                   |          | -                         | <b>✓</b>                 |

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|------------------|-------------------|---|---|---------------------------------------|---------------|----------------------------|----------|---------------------------|--------------------------|
|                  |                   | Measures  | measures & timing of completion of recommended measures   |                                       | D             | C                          | 0        | Guidelines                |                          |
|                  |                   | Director of Environmental Protection.   |   |                                       |               |                            |          |                           |                          |
| \$9.11.3         | S7                | Silt curtain deployment during Project construction and maintenance dredging will avoid encroachment into the existing and proposed marine parks, unless otherwise agreed by the Director of Environmental Protection.                              | Marine works (on existing, planned and potential marine parks) / During construction / During operation | Contractor(s)/<br>Project Proponents  |               | ✓                          | <b>√</b> | -                         | *                        |
| S9.11.3          | S7                | No stopping over or anchoring activity of vessels related to the Project should be conducted within existing and proposed marine parks, even before, during and after typhoon, unless otherwise agreed by the Director of Environmental Protection. | Marine works (on existing, planned and potential marine parks) / During construction / During operation | Contractor(s)/<br>Project Proponents  |               | ✓                          | ~        | -                         | <b>✓</b>                 |
| S9.11.3          | S7                | Use of appropriate dredging and jetting rates with the use of silt curtain where needed as recommended in the Water Quality section (Section 7 of the EIA Report) to reduce potential water quality impacts from elevated suspended solids (SS)     | Marine works / During construction / During operation   | Contractor(s) /<br>Project Proponents |               | •                          | •        | -                         | <b>✓</b>                 |

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation   | Location/ duration of recommended                              | Implementation<br>Agent               | Imple<br>Stag | ementa<br>e <sup>(1)</sup> | ation | Relevant<br>Legislation & | Implementation<br>Status                         |
|------------------|-------------------|---|--|---------------------------------------|---------------|----------------------------|-------|---------------------------|--|
|                  |                   | Measures  | asures measures & timing of completion of recommended measures |                                       | D             | O                          | 0     | Guidelines                |  |
|                  |                   | due to the proposed marine works.   |  |                                       |               |                            |       |                           |  |
| S9.11.3          | S7                | Silt curtain will be checked and maintained to ensure its effectiveness in mitigating water quality impacts on existing, planned and potential marine parks.  | Marine works / During construction / During operation          | Contractor(s) /<br>Project Proponents |               | <b>√</b>                   | •     | -                         | An observation<br>was given for<br>BPPS Pipeline |
| S9.11.3          | S7                | All vessel operators working on the Project will be given a briefing, alerting them to the locations of the existing, proposed and potential marine parks and the regulations for marine parks, the possible presence of dolphins and porpoises in the marine works areas, and the guidelines for safe vessel operation in the presence of cetaceans. The vessels will avoid using high speed as far as possible. By observing the guidelines, vessels will be operated in an appropriate manner so that marine mammals will not be subject to undue disturbance or harassment. | Marine works / During construction / During operation          | Contractor(s) /<br>Project Proponents |               | *                          | ~     | -                         | ✓  |

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation   | Location/ duration of recommended                       | Implementation<br>Agent               | Imple<br>Stag | ementa<br>e <sup>(1)</sup> | ation Relevant Legislation & Guidelines |            | Implementation<br>Status |
|------------------|-------------------|---|---|---------------------------------------|---------------|----------------------------|---|------------|--------------------------|
|                  |                   | Measures  | measures & timing of completion of recommended measures |                                       | D             | С                          | 0                                       | Guidelines |                          |
| S9.11.3          | S7                | All vessels used in this Project will be required to slow down to 10 knots around the Project's marine works areas and areas with high dolphin and porpoise usage, including existing and proposed marine parks. With implementation of this measure, the chance of vessel strike resulting in physical injury or mortality of marine mammals will be extremely unlikely.   | Marine works / During construction / During operation   | Contractor(s) /<br>Project Proponents |               | <b>*</b>                   | <b>*</b>                                | -          |                          |
| S9.11.3          | S7                | During underwater percussive piling works, a marine mammal exclusion zone within a radius of 500m radius will be implemented during underwater percussive piling works. Qualified observer(s) will scan an exclusion zone of 500m radius around the work area for at least 30 minutes prior to the start of piling. If a marine mammal is observed in the exclusion zone, piling will be delayed until they have left the area. This measure will ensure the area in the vicinity of the underwater percussive piling work is clear of marine mammals prior to the commencement of works and will serve to reduce any disturbance | Marine works / During construction                      | Contractor(s) /<br>Project Proponents |               | <b>√</b>                   |   | -          |                          |

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation  | Location/ duration of recommended                       | Implementation<br>Agent               | Imple<br>Stag | ementa<br>e <sup>(1)</sup> | ation    | Relevant<br>Legislation & | Implementation<br>Status               |
|------------------|-------------------|--|---|---------------------------------------|---------------|----------------------------|----------|---------------------------|--|
|                  |                   | Measures   | measures & timing of completion of recommended measures |                                       | D             | С                          | 0        | Guidelines                |  |
|                  |                   | to marine mammals. When a marine mammal is spotted by qualified personnel within the exclusion zone, piling works will cease and will not resume until the observer confirms that the zone has been continuously clear of the marine mammal for a period of 30 minutes. This measure will ensure the area in the vicinity of the piling is clear of the marine mammal during works and will serve to reduce any disturbance to marine mammals.   |   |                                       |               |                            |          |                           |  |
| S9.11.3          | S7                | During marine dredging or jetting operations, a marine mammal exclusion zone within a radius of 250m from dredger or jetting machine will be implemented.  Qualified observer(s) will scan an exclusion zone of 250m radius around the work area for at least 30 minutes prior to the start of dredging or jetting. If cetaceans or other megafauna are observed in the exclusion zone, dredging or jetting will be delayed until they have left the area. This measure will ensure the area in the vicinity of the dredging or jetting work is clear of marine mammals prior to | Marine works / During construction / During operation   | Contractor(s) /<br>Project Proponents |               | >                          | <b>\</b> | -                         | A reminder was given for BPPS Pipeline |

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|------------------|-------------------|---|---|--------------------------|---------------|----------------------------|-------|---------------------------|--------------------------|
|                  |                   | Measures  | measures & timing of completion of recommended measures |                          | D             | С                          | 0     | Guidelines                |                          |
|                  |                   | the commencement of works and   |   |                          |               |                            |       |                           |                          |
|                  |                   | will serve to reduce any  |   |                          |               |                            |       |                           |                          |
|                  |                   | disturbance to marine mammals. When a marine mammal is spotted by qualified personnel within the exclusion zone, dredging or jetting works will   |   |                          |               |                            |       |                           |                          |
|                  |                   | cease and will not resume until the observer confirms that the  |   |                          |               |                            |       |                           |                          |
|                  |                   | zone has been continuously clear of the marine mammal for a period of 30 minutes. This measure will ensure the area in the vicinity of the works is clear of the marine mammal during works and will serve to reduce any disturbance to marine mammals. If necessary, for night-time works, exclusion zone monitoring for FP by underwater acoustic means would be explored to supplement the |   |                          |               |                            |       |                           |                          |
|                  |                   | exclusion zone monitoring by trained observers. A site trial will be conducted to demonstrate its practicability/ effectiveness before actual implementation during the night-time works.   |   |                          |               |                            |       |                           |                          |
| S9.11.3          | S7                | Implementation of a contingency plan to contain and clean up the spilled or leaked fuels or chemicals at the LNG Terminal,  | Marine site for the LNG Terminal / During operation     | Contractor(s) /<br>HKLTL |               |                            | ✓     | -                         | N/A                      |

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental<br>Protection Measures/ Mitigation   | Location/ duration of recommended                       | Implementation<br>Agent  | Imple<br>Stage | ementa<br>e <sup>(1)</sup> | ation    | Relevant<br>Legislation & | Implementation<br>Status |
|------------------|-------------------|--|---|--|----------------|----------------------------|----------|---------------------------|--------------------------|
|                  |                   | Measures   | measures & timing of completion of recommended measures |  | D              | С                          | 0        | Guidelines                |                          |
|                  |                   | surrounding waters and marine parks.   |   |  |                |                            |          |                           |                          |
| S9.15.1          | S7                | Baseline, impact and post- construction monitoring of marine mammal using vessel-based line transect surveys and passive acoustic monitoring (PAM) will be undertaken to keep track of potential changes in the usage of waters in the vicinity of the Project's works areas by FP. Prior to the commencement of monitoring, methods will be agreed with the AFCD. | Marine site / During construction                       | Contractor(s) / ET/<br>Project Proponents  |                | <b>*</b>                   |          | -                         | <b>✓</b>                 |
| Fisheries        |                   |  |   |  |                |                            |          |                           |                          |
| S10.8            | S8                | The mitigation measures designed to mitigate impacts to water quality to acceptable levels (compliance with assessment criteria) and marine ecological impacts are expected to mitigate impacts to fisheries resources.  | During construction and operation                       | Contractor(s) / Project Proponents / Environmental Team (ET) & Independent Environmental Checker (IEC) |                | <b>→</b>                   | <b>✓</b> | -                         |                          |
| S10.8            | S8                | Impingement and entrainment of fisheries resources will be reduced through appropriate design of the intake screens on the cooling water intake.   | During operation for<br>the LNG Terminal                | Contractor(s) /<br>HKLTL   |                |                            | ✓        | -                         | N/A                      |

| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental Protection Measures/ Mitigation  | Location/ duration of recommended  | Implementation<br>Agent                   | Impl<br>Stag | ementa<br>e <sup>(1)</sup> | ation | Relevant<br>Legislation & | Implementation<br>Status                                |
|------------------|-------------------|--|--|---|--------------|----------------------------|-------|---------------------------|---|
|                  |                   | Measures   | measures & timing of completion of recommended measures                    |   | D            | С                          | 0     | Guidelines                |   |
| Visual           |                   |  |  |   |              |                            |       |                           |   |
| S11.8            | S9                | Sensitive architectural design of the new facilities. This should take into account material texture, colour, finished to structure and the context of the site to ensure the GRSs at the BPPS and LPS blend into the existing context, cause least disturbance to the existing land. LNG Terminal will be designed for marine safety and operations, in accordance with relevant standards and regulations and sensitive architectural design will be considered where practicable. | All areas / Detailed design / During construction / During operation       | Design Contractor /<br>Project Proponents | <b>✓</b>     | ~                          | ~     | -                         |   |
| S11.8            | S9                | Pre-construction and construction period for the GRSs and LNG Terminal should be reduced as far as practical to lower visual impact.   | All areas / During construction  | Contractor(s)                             |              | 1                          |       | -                         | ✓ for GRS in<br>BPPS, GRS in<br>LPS and LNG<br>Terminal |
| S11.8            | S9                | Following construction, land areas temporarily affected by the construction works, will be reinstated to their former state.   | Land sites for the<br>GRSs within BPPS<br>and LPS / During<br>construction | Contractor(s)                             |              | <b>√</b>                   |       | -                         | ✓ for GRS in BPPS  N/A for GRS in LPS                   |

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| EIA<br>Reference | EM&A<br>Reference | Recommended Environmental<br>Protection Measures/ Mitigation   | Location/ duration of recommended                       | Implementation Agent                      | Imple<br>Stag | ementa<br>e <sup>(1)</sup> | ation    | Relevant<br>Legislation & | Implementation<br>Status                      |
|------------------|-------------------|--|---|---|---------------|----------------------------|----------|---------------------------|---|
|                  |                   | Measures   | measures & timing of completion of recommended measures |   | D             | С                          | 0        | Guidelines                |   |
| S11.8            | S9                | Light intensity and beam directional angle should be controlled at the GRSs and the LNG Terminal at the design stage to reduce light pollution and glare (e.g. hooded lights, specific directional focus, etc.). | All areas / Detailed<br>design / During<br>operation    | Design Contractor /<br>Project Proponents | <b>√</b>      |                            | <b>√</b> | -                         | N/A   |
| S11.8            | S9                | Any plants to be affected by the GRSs at the BPPS and the LPS should be preserved and care taken to ensure the existing health status of the vegetation is maintained or enhanced after construction.            | All areas / During construction                         | Contractor(s)                             |               | <b>√</b>                   |          | -                         | ✓ for GRS in<br>BPPS<br>N/A for GRS in<br>LPS |
| Cultural He      | ritage            |  |   |   |               |                            |          |                           |   |
| S12.7            | S10               | N/A  |   |   |               |                            |          |                           | N/A   |

### TABLE C.2 SUMMARY OF MITIGATION MEASURES FOR PIPELINE CONSTRUCTION WORKS

| Work Location  | Plants<br>Involved   | Allowed Maximum<br>Work Rate   | Silt<br>Curtain at<br>Plants | Silt Curtain at Water Sensitive Receivers  | Other Measures   | Implementation Status                             |
|--|--|--|------------------------------|--|--|---|
| LPS Pipeline (under FE   | P-02/558/2018/   | A)   |                              |  |  |   |
| Pipeline shore approach at LPS (KP17.4 - 18.2)                         | 1 Grab<br>Dredger  | 1,600m <sup>3</sup> day <sup>-1</sup> for 24 hours each day  | Yes                          | Not required   |  | N/A   |
| West Lamma Channel<br>(KP14.5 - 17.4)                                  | 1 Jetting<br>Machine                                       | 1,000m day <sup>-1</sup> for 24 hours each day   | Yes                          | Not required   |  | ✓   |
| South of Shek Kwu<br>Chau to West Lamma<br>Channel (KP5.0 - 14.5)      | 1 Jetting<br>Machine                                       | 7,000m day <sup>-1</sup> for 24 hours each day   | Yes                          | Not required   |  | <b>✓</b>  |
| Double Berth Jetty to<br>South of Shek Kwu<br>Chau (KP0.1 - 5.0)       | 1 Jetting<br>Machine                                       | 720m day <sup>-1</sup> for 24<br>hours each day  | Yes                          | Two layers at Eastern Boundary of the Proposed South Lantau Marine Park (KP0.1 - 5.0)                    | Daily maximum<br>of 12 hours with<br>daylight (0700 –<br>1900) | ✓   |
| Pipeline Riser Sections  | at Double Ber  | th Jetty (under FEP-02/  | /558/2018/A a                | nd FEP-03/558/2018/B)  |  |   |
| Pipeline Riser (KP0.0 - 0.1 for both pipelines)                        | 1 Grab<br>Dredger  | 8,000m <sup>3</sup> day <sup>-1</sup> for 24 hours each day  | Yes                          | Not required   | Daily maximum of 12 hours with daylight (0700 – 1900)          | ✓ for FEP-02/558/2018/A N/A for FEP-03/558/2018/B |
| BPPS Pipeline (under F   | EP-03/558/201  | 8/B)   |                              |  |  |   |
| Jetty Approach (KP0.1 - 5.0), excluding Subsea Cable Sterile Corridors | 1 Jetting<br>Machine<br>(Note 1)                           | 1,000m day <sup>-1</sup> for 24 hours each day   | Yes                          | Not required for grab dredging; Two layers at Southern Boundary of the Proposed South Lantau Marine Park | Daily maximum<br>of 12 hours with<br>daylight (0700 –          | <b>✓</b>  |
| Subsea Cable Sterile<br>Corridors (KP1.49 - 2.75<br>& KP3.55 - 4.43)   | 2 Grab<br>Dredgers,<br>followed by<br>1 Jetting<br>Machine | 8,000m³ day⁻¹ for 24<br>hours each day for<br>each dredger<br>720m day⁻¹ for 24<br>hours each day<br>jetting machine | Yes                          | (KP0.1 - 8.9) for jetting  | 1900)  | <b>✓</b>  |

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| Work Location                                    | Plants<br>Involved               | Allowed Maximum<br>Work Rate  | Silt<br>Curtain at<br>Plants | Silt Curtain at Water Sensitive Receivers  | Other Measures   | Implementation Status |
|--|----------------------------------|---|------------------------------|--|--|-----------------------|
| South of Soko Islands<br>(KP5.0 - 8.9)           | 1 Jetting<br>Machine<br>(Note 1) | 1,000m day <sup>-1</sup> for 24 hours each day  | Yes                          |  |  | <b>✓</b>              |
| Southwest of Soko<br>Islands (KP8.9 - 12.1)      | 1 Jetting<br>Machine<br>(Note 1) | 1,000m day <sup>-1</sup> for 24 hours each day  | Yes                          | Not required   |  | ✓                     |
| Adamasta Channel<br>(KP12.1 - 15.6)              | 1 Jetting<br>Machine<br>(Note 1) | 1,000m day <sup>-1</sup> for 24 hours each day  | Yes                          | Not required   |  | ✓                     |
| Southwest Lantau<br>(KP15.6 - 21.3)              | 1 Jetting<br>Machine<br>(Note 1) | 1,500 m day <sup>-1</sup> for 24 hours each day   | Yes                          | Not required   | Avoid the peak<br>months of<br>Chinese White<br>Dolphin (CWD)<br>calving (May and<br>June) | <b>✓</b>              |
| West of Tai O to West<br>of HKIA (KP21.3 - 31.5) | 1 Jetting<br>Machine<br>(Note 1) | 1,500m day <sup>-1</sup> for 24<br>hours each day from<br>KP KP26.2 to 21.3<br>720m day <sup>-1</sup> for 24<br>hours each day from<br>KP31.5 to 26.2 | Yes                          | Not required   |  | <b>✓</b>              |
| Sha Chau to Lung Kwu<br>Chau (KP31.5 - 36.0)     | 1 Jetting<br>Machine<br>(Note 1) | 720m day <sup>-1</sup> for 24<br>hours each day   | Yes                          | Two layers at Western Boundary of the Sha Chau and Lung Kwu Chau Marine Park (KP31.5 - 36.0) |  | <b>✓</b>              |
| Sha Chau to Lung Kwu<br>Chau (KP36.0 - 37.5)     | 1 Jetting<br>Machine<br>(Note 1) | 720m day <sup>-1</sup> for 24 hours each day  | Yes                          | Two layers at Western Boundary of the Sha Chau and Lung Kwu Chau Marine Park (KP36.0 - 37.5) |  | 1                     |

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|--|----------------------------------|---|------------------------------|---|----------------|-----------------------|
| Lung Kwu Chau to<br>Urmston Anchorage<br>(KP37.5 - 41.1) | 1 Jetting<br>Machine<br>(Note 1) | 1,000m day <sup>-1</sup> for 24 hours each day              | Yes                          | Two layers at Northwestern corner of<br>Sha Chau and Lung Kwu Chau Marine<br>Park (KP37.5 - 41.1) |                | ✓                     |
| Urmston Road (KP41.1 - 42.9)                             | 1 Grab<br>Dredger                | 8,000m <sup>3</sup> day <sup>-1</sup> for 24 hours each day | Yes                          | Not required  |                | ✓                     |
| West of BPPS (KP42.9 - 44.9)                             | 1 Jetting<br>Machine<br>(Note 1) | 1,000m day <sup>-1</sup> for 24 hours each day              | Yes                          | Two layers at CR1, CR2 (Note 2)   |                | 1                     |
| Pipeline shore approach at BPPS (KP44.9 - 45.0)          | 1 Grab<br>Dredger                | 1,500m <sup>3</sup> day <sup>-1</sup> for 24 hours each day | Yes                          | Two layers at CR1, CR2 (Note 2)   |                | 1                     |

### Notes:

(2) CR1 and CR2 denote the coral colonies identified at the artificial seawall at BPPS.

<sup>(1)</sup> No more than two jetting machines will be used for the construction of the subsea gas pipeline of the Project. In addition to existing relevant mitigation measures, the minimum separation distance between the two jetting machines for avoiding cumulative impact is 5km for most of the pipeline sections, except when one jetting machine is working at the subsea cable sterile corridors (i.e. KP1.49 – KP2.75 and KP3.55 – KP4.43). When one jetting machine is working at the subsea cable sterile corridors, no other jetting machine will work concurrently within KP0.0-KP14.25, i.e., between the Jetty and Adamasta Channel.