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Your ref. -
Our ref 5207869/18.30/OC130/AL/DL/SW/IW/JC/fl

Date 22 April 2022

By Hand and Email

Environmental Protection Department
Environmental Assessment Division
Strategic Assessment Group
Sheung Shui, Fanling, Tai Po Section (6)
27th floor, Southorn Centre,
130 Hennessy Road,
Wan Chai, Hong Kong

Attn: Ms. LAU Tai, Trista
Env Protection Offr (Strategic Assessment) 61

Dear Madam,

Agreement No. CE 32/2021 (CE)
Improvement Works at Lai Chi Wo Pier and Tung Ping Chau Public Pier – Design and Construction

Environmental Permit No. EP-586/2021
Submission of Emergency Spillage Plan (Rev.2)

Pursuant to Conditions 2.12 of the EP No. EP-586/2021, we hereby submit the Emergency Spillage Plan(Rev.2)for the Site Investigation (GI) Works for the captioned Project.

The aforesaid submissions have been certified by the Environmental Team (ET) and verified by the Independent Environmental Checker (IEC). The ET certification and the IEC verification letters have been enclosed for your record.

Should you have any queries regarding the above, please feel free to contact our Mr. Arthur Lo (Email: arthur.lo2@atkinsglobal.com) at 2972 1360 or Mr. Joe Chiu (Email: Joe.Chiu@atkinsglobal.com) at 2972 1119.

Yours faithfully,
For and on behalf of
Atkins China Ltd

Dickson LAW
Project Manager

cc CEDD/CEO Mr. CHIK Kan To (Project Coordinator /Projects 3 A)

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Our ref	5207869/18.30/OC130/AL/DL/SW/IW/JC/fl
Title:	Submission of Pier Design Plan, Emergency Spillage Plan and Works Vessel Travel Route Plan
Date	22 April 2022

Attachment 1

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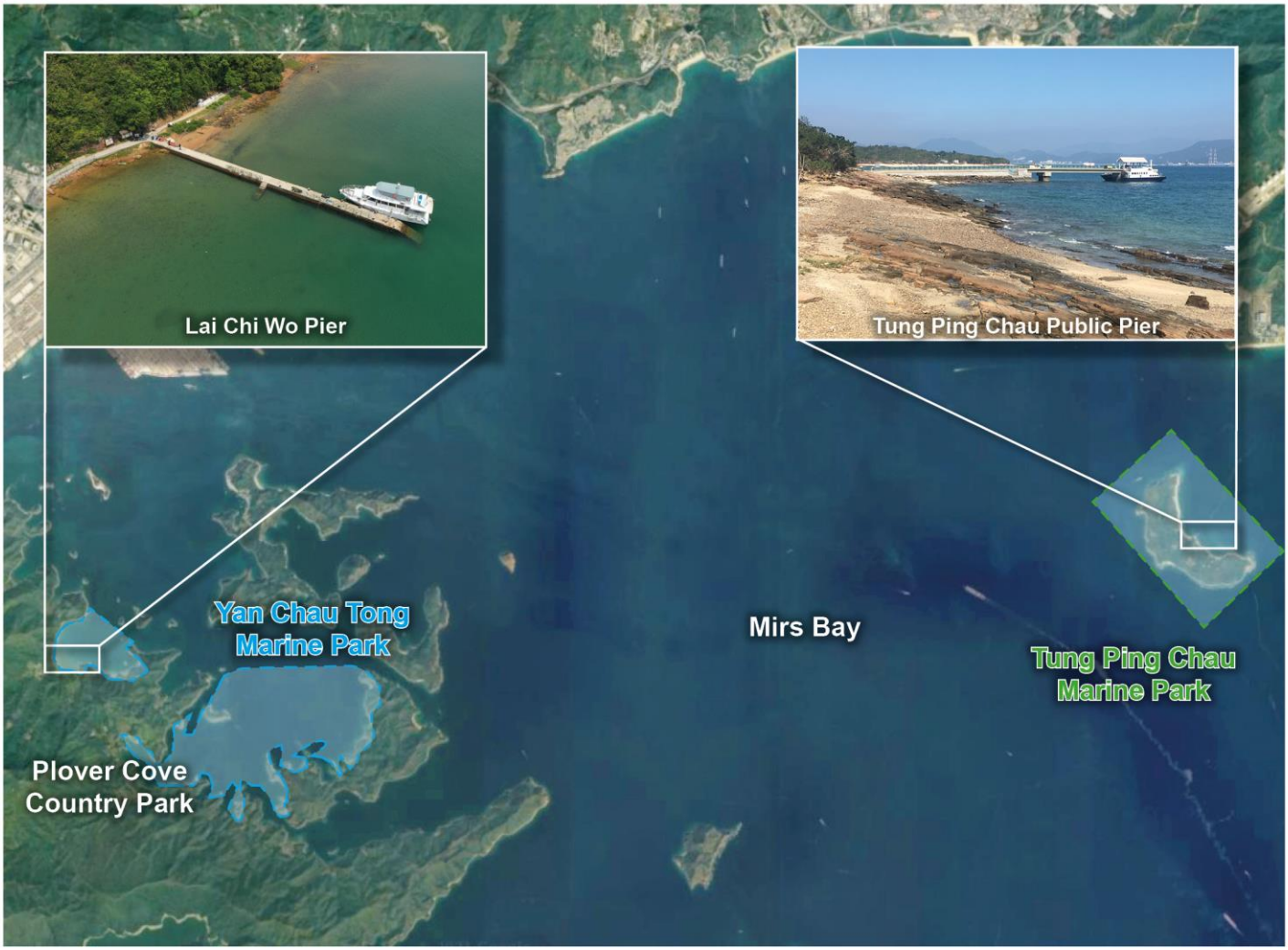
Emergency Spillage Plan

土木工程拓展署
CEDD Civil Engineering and Development Department



Agreement No. CE 32/2021 (CE)
Improvement Works at Lai Chi Wo Pier and Tung Ping Chau Public Pier
-Design and Construction

Emergency Spillage Plan at Lai Chi Wo Pier (SI Investigation) (Rev. 2)

(5207869-OR016A-02a)

14 April 2022

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Notice

This document and its contents have been prepared and are intended solely as information for Civil Engineering and Development Department and use in relation to this Assignment.

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Document History

Revision	Purpose description	Originated	Checked	Reviewed	Authorised	Date
Rev 0	First Issue	Rachel WONG	Arthur LO	Wing WONG	Dickson LAW	04 January 2022
Rev 1	Second Issue	Rachel WONG	Arthur LO	Wing WONG	Dickson LAW	06 January 2022
Rev 2	Third Issue	Rachel WONG	Arthur LO	Wing WONG	Dickson LAW	11 April 2022

Issue Record

Client	Civil Engineering and Development Department			
Project	Agreement No. CE 32/2021(CE) Improvement Works at Lai Chi Wo Pier and Tung Ping Chau Public Pier – Design and Construction			
Document Title	Emergency Spillage Plan at Lai Chi Wo Pier (SI Investigation)			
Job number	5207869			
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Appendix

Not Used

1. Introduction

1.1 Background

1.1.1 Hong Kong is an international metropolis and comprises many natural scenic spots, rare geological features, attractions with traditional culture and heritage, and hiking trails with rich biological diversity. The famous Hong Kong UNESCO Global Geopark (Geopark), Marine Parks, old temples, eco-tourism sites and beautiful beaches in coastal areas are some examples. Many attractions are located at remote rural areas without land access and rely on marine transport. In recent years, number of local and non-local visitors attracted to these remote destinations has been constantly increasing.

1.1.2 Public piers play an important role in accessing these remote destinations. There are about 120 public piers in Hong Kong. Majority of these piers are built, maintained and managed by the Government.

1.1.3 Although regular inspections and maintenance for the remote public piers are carried out by the Government to ensure its structural integrity, some public piers at remote rural areas have been in place for many years and cannot cope with the current needs / usages, such as:

a) small or primitive piers leading to safety concerns during berthing and unsatisfactory boarding conditions especially for kids and elderly;

b) inadequate depth of water for berthing during low tide;

c) limited berthing space or narrow accesses which cannot cater for the fluctuating utilization during festive times or weekends; and

d) aged pier structures with a need for improvement works.

1.1.4 Civil Engineering and Development Department (CEDD) commissioned an Investigation Study (IS), “Study for Pier Improvement at Lai Chi Wo and Tung Ping Chau – Investigation” (Agreement No. CE 2/2018 (CE)), in June 2018 to verify the technical feasibility of improving two potential pier items located within Yan Chau Tong Marine Park and Tung Ping Chau Marine Park in the northeast region of Hong Kong. The improvement of these two piers are designated project under Item Q.1, Part 1 of Schedule 2 of the EIAO.

1.1.5 EIA study has been carried out in accordance with the requirement of the EIA Study Briefs including assessment of the potential environmental impacts, in particular water quality impact and ecological impact, and specified environmental monitoring and audit requirements to ensure the effective implementation of the recommended environmental protection and mitigation measures. The EIA Reports of the two piers were approved by DEP under the EIAO on 29 December 2020 and Environmental Permits (EPs) for construction and operation of the improvement works were granted on 19 February 2021. The EIA study made recommendations on the scope of improvement to the Lai Chi Wo Pier and Tung Ping Chau Public Pier with preliminary engineering studies for individual pier taking into account public aspiration and other constraints, prepared preliminary engineering layouts, and evaluated the feasibility of adopting innovative design elements for the piers.

1.1.6 Atkins China Ltd. was commissioned by the Civil Engineering and Development Department of the Hong Kong Government Special Administrative Region on 16 September 2021 to provide consultancy services for Agreement No. CE 32/2021 (CE) Design Consultancy for Improvement Works at Lai Chi Wo Pier and Tung Ping Chau Public Pier - Design and Construction (hereinafter called "the Assignment").

1.2 Project Description

1.2.1 Pier Improvement at Lai Chi Wo (the Project) is governed by the Environmental Permit, EP-586/2021, under the EIAO. The scale and scope of the Project includes:

- Modification of the existing pier and construction of new pier structures. The improved pier would be of approximately 155m long and 6m to 15m wide;
- Construction and removal of a temporary pier of approximately 70m long and 3m wide;
- Site investigation works for detailed design; and,
- Associated facilities (e.g. barrier-free access, canopy, seats) and landscaping works, etc under the Project.

1.2.2 The Project Site is located in the vicinity of Lai Chi Wo Pier, which falls within the Yan Chau Tong Marine Park. Its location is shown in **Figure 1**.

1.2.3 The site investigation (SI) works for detailed design will be commenced on 16 February 2021 to collate necessary engineering and sediment quality information for the study for pier improvement at Lai Chi Wo. A detailed search from the Digital Geotechnical Information Unit (DGIU) of CEDD revealed that there are no existing SI records at the area around Lai Chi Wo Pier. The location plan of ground investigation is provided in **Figure 2**.

1.3 EP Requirements and Relevant Licenses

1.3.1 Pursuant to Condition 2.12 of EP-586/2021, the Permit Holder shall, no later than 1 month before the commencement of construction of the Project, deposit with the DEP 3 hard copies and 1 electronic copy of an Emergency Spillage Plan detailing the actions to be taken in the event of accidental spillage of chemicals during construction of the Project. The Emergency Spillage Plan shall include types of potential spills, spillage preventive measures, and spillage response procedures for protecting water quality and marine ecology. The Emergency Spillage Plan shall also include an implementation schedule in table form to clearly list out the mitigation measures to be implemented, and the implementation party, location, timing, and environmental performance required for implementation of the mitigation measures.

1.3.2 If chemical wastes are produced at the construction site, Contractor should register with EPD as chemical waste producer. Chemical wastes should be stored in appropriate containers and collected by a licensed chemical waste collector. Chemical wastes (e.g. spent lubricant oil) should be recycled at an appropriate facility as far as possible, whilst the chemical waste that cannot be

recycled should be disposed of at either the Chemical Waste Treatment Centre, or another licensed facility, in accordance with Cap. 354C Waste Disposal (Chemical Waste) (General) Regulation.

1.3.3 In accordance with the Marine Parks Ordinance (Cap. 476, s.21(1)), the Project Proponent shall seek the Country and Marine Parks Authority's approval in writing for the carrying out of any work for the purposes of inspecting or repairing any existing structure or facility within any marine park or marine reserve and may, after seeking the advice of the Country and Marine Parks Board, approve the carrying out of any new development within the marine park where he considers it to be in the public interest to do so, and may impose any conditions on granting the approval. On water and sediment sampling in the marine park if needed, the Project Proponent may, under and in accordance with a permit, collect marine resources in or from a marine park for the purpose of conducting scientific studies in accordance with Marine Parks and Marine Reserves Regulation (Cap. 476A, s.15B). On prevention of nuisances or spillage, no person shall within a marine park wilfully or negligently deface, injure, soil or defile any notice, marker, buoy, facility or installation erected, used or maintained by the Authority; wilfully or negligently obstruct or pollute in any way any pool or body of water; or deposit any litter (Cap. 476A, s.9(1)). On works vessels, no person shall operate a power-driven vessel at a speed exceeding 10 knots at any time inside a marine park (Cap. 476A, s.10) and no person shall moor or anchor a vessel in the marine park except under and in accordance with a permit or at mooring buoys or mooring sites provided by the Authority (Cap. 476A, s.11).

1.3.4 This Emergency Spillage Plan is prepared for the site investigation works carried out at the Lai Chi Wo Pier. A separate Emergency Spillage Plan for the Main Works of the Project will be submitted to EPD no later than 1 month before the commencement of Main Works in accordance with Condition 2.12 of EP-586/2021. The Main Works will be commenced in the 3rd quarter of 2023, tentatively.

2. Roles and Responsibilities

2.1 Emergency Team Personnel and Contacts

2.1.1 The contact list of the Emergency Response Team and relevant government departments and parties is provided in **Appendix A**.

2.2 Responsibilities

2.2.1 The roles and responsibilities of the Emergency Team Personnel during an emergency spill response event are described in the sections below.

2.2.2 Emergency Coordinator

- Lead and coordinate the Emergency Response Team to carry out appropriate actions in accordance with the Emergency Spillage Plan;
- Ensure all construction workers perform their tasks and duties safely and correctly with sufficient resources;
- Supervise the process of spill clean up in case of spillage; and
- Maintain communication with CEDD and other relevant external parties in the event of spillage as mentioned in this Emergency Spillage Plan.

2.2.3 Deputy Emergency Coordinators

- Assist the Emergency Coordinator in responses towards emergency spillage events;
- Notify ET and IEC of the emergency spillage events;
- Coordinate, monitor and oversee the implementation of Emergency Spillage Plan; and
- Arrange ad-hoc site inspections for spill investigation.

2.2.4 Emergency Response Team Members

- Report to the Emergency Coordinator and follow the instructions to perform their duties;
- Ensure the works are executed in accordance with the Emergency Spillage Plan;
- Implement any remedial actions or environmental mitigation measures as directed by the Emergency Coordinator;
- Conduct environmental site inspections;
- Attend environmental meetings as necessary;
- Daily inspection of chemical storage area and the condition of drip tray;

- Provide relevant spill prevention and response training to all construction workers; and

- Review and update the Emergency Spillage Plan as necessary.

2.2.5 Construction Workers

- Follow the instructions of the Emergency Response Team to execute the Emergency Spillage Plan;

- Report immediately to the Emergency Response Team for any incidents occurred;

- Implement any remedial actions or environmental mitigation measures as directed by the Emergency Response Team, with proper use of spill kits to collect and store the spillage wastes generated during clean up of any spills where applicable; and

- Attend relevant spill prevention and response training.

3. Types of Potential Spills

3.1 Land-based Spills from Land-based Activities

3.1.1 Oil and Hazardous Chemicals Spill

3.1.1.1. As only marine-based activities will be carried out during SI works for the Project, oil and hazardous chemicals spill from land-based activities is not anticipated.

3.2 Marine Spills from Marine-based Activities

The main types of spills that may arise from marine-based SI works are spillage of diesel oil, lubricating oil, chemicals and sediment.

3.2.1 Oil and Hazardous Chemicals Spill

3.2.1.1. The chemicals used during marine-based site investigation works, such as fuel, oil, solvents and lubricants from maintenance of machinery and equipment, may cause pollution and trigger physiochemical effects in the nearby water bodies if accidental spillage occurs. These chemicals may be stored onboard works vessels and can be accidentally spilled due to poor handling practices or when insufficient safeguards are provided against unforeseen events such as vessel collision. Any spills into the marine environment can form a large plume quickly due to wave and current action unless it is isolated quickly.

3.2.2 Suspended Solids Spill

3.2.2.1. Unexpected release of large amount of suspended solids, in case of accidents, human negligence or mechanical failure would result in adverse water quality and marine ecology impacts.

3.2.2.2. Spillage of sediment collected during the boreholes drilling process may arise from the marine-based SI works, such spillage can form large sediment plumes due to wave and current action unless it is isolated quickly.

4. Spill Prevention Measures

4.1 General Good Practices

4.1.1 A number of good practices and mitigation measures are recommended for the marine-based SI works are given as below:

- Before commencement of drilling works, all drill rig, circulation tank and equipment shall be thoroughly cleaned off-site;
- Throughout the drilling process, seawater shall be used for flushing medium and no lubricant, hydraulic fluid or other additives shall be introduced;
- The drilling fluid shall be circulated within the system through the circulation tank, where the recycled fluid with small amount of sediment shall be settled and collected in the tank;
- Prior to actual sampling, an outer casing shall be placed on the seabed level to avoid the spillage of sediment and water containing suspended solids (SS);
- After the completion of sampling work, casing shall be cleaned by the recycled water and collected back to the circulation tank. The inner and outer casing shall then be extracted slowly to the barge deck and the sediment collected in the tank during the drilling process shall be delivered to the depot of the Contractor;
- Final disposal of the drilling fluid should be discharged offsite and outside the Country Park, Marine Park, Site of Special Scientific Interest (SSSI) and other water sensitive receivers (WSRs) with a valid discharge license under Cap. 358 Water Pollution Control Ordinance (WPCO) with the provision of silt removal facilities, or to the depot of the Contractor; and
- To ensure all geotechnical and environmental samples will be collected within the casing without any contact with the surrounding water bodies.

4.1.2 The following general precautionary measures shall be applied to all construction works areas to minimize the risk of accidental spillage:

- Maintain good site housekeeping practices and ensure all materials, chemicals and wastes are properly stored and placed in appropriate disposal areas on-site at the end of each day;
- Avoid disorder and storage of unnecessary materials in works areas;
- Open flames and smoking shall be prohibited within the construction site; smoking may be permitted only at designated smoking areas;
- Stacked containers should be secured from falling;
- Large/heavy containers should be stored on the floor as far as possible to prevent falling; and

- Warning signs, fences and locks where appropriate should be deployed for storage areas of hazardous materials, chemicals, fuels and oils, etc.

4.2 Construction Materials

Since this Emergency Spillage Plan is prepared for marine-based SI works only, no construction materials such as bentonite and cement will be stored, transported and used on site at this stage. Nevertheless, the following precaution and preventive measures recommended for storage, transfer and transport, and usage of construction materials, if any, shall be applied to all works vessels involving the transport of materials that may give rise to unexpected release of large amount of suspended solids.

4.2.1 Storage

- Storage area of construction materials should be inspected daily to ensure no leakages. Any damage/ openings to the storage area should be repaired or replaced immediately;

- Cover all construction materials at temporary storage area with tarpaulin or similar fabric during rainstorms and implementation of measures to prevent the washing away of construction materials into the water bodies;

- Prohibit open flames and smoking near the construction materials storage areas;

- Store large and heavy containers on the floor as far as possible;

- Provide adequate space for safe and easy handling and inspection of the containers;

- Maintain an up-to-date log of all construction materials stored at the vessels; and

- Provide a bucket of dry sand and a suitable fire extinguisher in the storage area.

4.2.2 Transfer and Transport

- Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material;

- Vessels shall be regularly inspected to ensure no leakages and any leakages shall be repaired quickly prior to mobilisation of the vessels;

- Barges shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation;

- Excess materials shall be cleaned from the decks and exposed fittings of barges before the vessels are moved;

- Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action;

- Vessels shall follow the pre-defined routes and marine traffic arrangements to minimize the risk of collision;

- Vessels shall follow the designated entry/exit points into and out of the construction site boundary; and

- Vessels speeds shall not exceed 10 knots at any time inside the marine park.

4.2.3 In-use

- Silt curtains should be deployed around active marine works areas prior to the commencement of construction works to prevent spillage.

4.3 Chemicals, Oil and Fuels

4.3.1 For chemicals, oils and fuels required and used on-site, the following preventive measures shall be adopted during the storage, transfer and transport, and usage.

4.3.2 Storage

- Properly store and contain the chemicals used during construction, such as fuel, oil, solvents and lubricants in a designated area with secondary containment to prevent spillage and contamination of the nearby water environment;

- Suitable containers should be used which are resistant to the stored oil, fuel, chemical / chemical waste to avoid leakage;

- Containers should be checked before use and container lids should be closed tightly to avoid leakage;

- Chemical waste storage areas should be located in a designated area that is sheltered on at least 3 sides and the top, and is locked and kept clean and free from obstruction;

- Incompatible chemicals should be separated;

- Chemical, oil and fuel containers should be kept under eye level as far as possible;

- Provide locks for all fuel tanks and storage areas and locate on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching WSRs nearby;

- Chemical storage area and drip trays should be inspected daily to ensure the containers are in good condition and there are no openings which oil/chemicals can possibly leak out. Any damage/ openings to the storage area and drip trays should be repaired or replaced immediately; and

- Where chemicals are temporarily taken outside the sheltered chemical storage area, the chemicals including the drip trays / bund should be covered by waterproof tarpaulins and kept free of rainwater.

4.3.3 Transfer and Transport

- Pumps should be used to transfer large quantities of oil, fuel, chemical / chemical wastes instead of pouring;
- Oil, fuel, chemical / chemical wastes should be transferred slowly to prevent spillage or overfilling; and
- Suitable trolley should be used to transport chemicals / chemical wastes to other location.

4.3.4 In-use

- Preferably carry out any maintenance activities and workshops with chemicals use outside the Project Site given the advantage that machineries located on barges can be easily relocated; and
- Chemical quantities/dosage required during each use shall be carefully calculated/measured to prevent any excess chemicals being generated and released.

5. Spillage Response Procedures

In the event of a spillage incident, the spill response needs to be carried out promptly and efficiently according to the spillage location, type of spill and quantity of spill. An effective spill response can prevent adverse impacts to the environment and may also minimize the quantity of release into the environment. The spill responses for different spillage types and scenarios are discussed in the following sections. A flow chart of spillage response procedures is also presented in **Appendix B**.

5.1 Spillage Notification System

5.1.1 When a spill occurs, the individual identifying the spill shall inform the Emergency Response Team to proceed with the appropriate spill response immediately. The individual shall report the followings to the Emergency Response Team:

- Location of the spill;
- Nature of the affected location (e.g. concrete, dirt, marine environment);
- When the spill occurred;
- Type of spill (e.g. oil, chemical, hazardous materials); and
- Approximate quantity and size of the spill.

5.1.2 For chemicals and hazardous materials, the name of the chemical/ hazardous material should be identified and reported immediately as part of the emergency communication. After receiving the description of the spill from the workers, the Emergency Response Team shall proceed with the appropriate spill response according to the relevant scenario described below.

5.2 Spill Clean Up and Disposal

5.2.1 Oil and Hazardous Chemicals Spill on Land

According to Section 3.1.1.1, oil and hazardous chemicals spill on land is not anticipated as only marine-based site investigation works will be carried out at this stage. Nevertheless, if land-based spill unexpectedly occurs, the following spill response procedures shall be followed.

5.2.1.1. Immediate Response

1. Workers shall take immediate measures (in line with spill response training) to stop the sources of the spill if the source is obvious and it is safe to do so, and inform the Emergency Response Team of the spillage.
2. Emergency Coordinator shall organize the manpower to identify/check the source of the spill and provide instructions for stopping/containing the spill.
3. Workers shall stop, reduce, isolate or contain the spillage if possible measures can be taken (e.g. turn off the valve).

4. In parallel, the Emergency Coordinator shall inform all relevant parties such as CEDD, Engineer, ET and IEC immediately and keep such parties informed throughout the spill response.

5. If the spill spreads to an area larger than 100m^2, the Emergency Coordinator shall also inform all relevant authorities such as EPD and FSD immediately, and keep such parties informed throughout the spill response

5.2.1.2. Spill Response for Spillage Area less than 100m^2

1. Workers shall install forced ventilation to ensure a safe spillage response condition is provided, where applicable.

2. Emergency Response Team shall appoint well-trained clean-up crew to clean up the spillage area.

3. Emergency Response Team shall review relevant Material Safety Data Sheet (MSDS) for the chemical spill. The MSDS would have specific instruction on how to deal with chemical spill.

4. Emergency Response Team shall ensure all workers involved in the clean-up works are equipped with goggles, protective masks and chemical protective gloves (PPE).

5. Worker put the oil absorbent pads and oil absorbent socks to confine the spilled diesel to prevent further dispersion of diesel spills.

6. Worker put the oil absorbent pads and oil absorbent socks onto the contaminated area to absorb the spillage on the ground.

7. The spill material shall be put back into the containers of origin if possible and practical. Otherwise, dry sand, sawdust or other suitable materials shall be used to absorb the spill.

8. Any contaminated materials shall be collected, bagged and clearly marked as “Chemical Waste”.

9. All collected chemical waste shall be stored in a designated chemical waste storage area and handled and disposed of in accordance with Cap. 354C Waste Disposal (Chemical Waste) (General) Regulation.

10. Emergency Response Team shall carry out spill investigation and complete the spill incident report.

5.2.1.3. Spill Response for Spillage Area greater than 100m^2

1. Follow items no. 1 to 8 of the procedures for spill responses for spillage area less than 100m^2.

2. The ET and Emergency Response Team shall carry out joint spill investigation and complete the spill incident report with provisions for improvement measures/ practices recommended to prevent re-occurrence and update this Emergency Spillage Plan as necessary. Site staff shall be

briefed of these measures by the Emergency Response Team after the investigation.

5.2.2 Oil and Hazardous Chemicals Spill into Marine Environment

5.2.2.1. Immediate Response

1. Workers shall take immediate measures (in line with spill response training) to stop the sources of the spill if the source is obvious and it is safe to do so, and inform the Emergency Response Team of the spillage.

2. Emergency Coordinator shall organize the manpower to identify/check the source of the spill and provide instructions for stopping/containing the spill.

3. Workers shall stop, reduce, isolate or contain the spillage if possible measures can be taken (e.g. deploy containment booms).

4. In parallel, the Emergency Coordinator shall inform all relevant parties such as CEDD, Engineer, ET and IEC immediately and keep such parties informed throughout the spill response.

5. If the spill spreads to an area larger than 100m^2, the Emergency Coordinator shall also inform all relevant authorities such as EPD, Marine Department (MD), Agricultural Fisheries and Conservation Department (AFCD) and FSD immediately, and keep such parties informed throughout the spill response.

5.2.2.2. Clean-up Instruction for Spillage Area less than 100m^2

1. Emergency Response Team shall appoint well-trained clean-up crew to clean up the spillage area.

2. Emergency Response Team shall be responsible for organizing the manpower to identify the spill source and stop or cease it.

3. Emergency Response Team shall ensure all workers involved in the clean-up works are equipped with suitable PPE.

4. Absorption materials such as pads or socks shall be used to absorb the spillage.

5. Oil absorbents in the spill kit shall be applied to absorb and remove the spillage, they will be collected by disposal plastic bags as part of the spill kits item.

6. Any contaminated materials shall be collected and put in a spill containment and clearly marked as “Chemical Waste”.

7. All collected chemical waste shall be stored in a designated chemical waste storage area and handled and disposed of in accordance with Cap. 354C Waste Disposal (Chemical Waste) (General) Regulation.

8. The ET shall review whether additional water quality monitoring is necessary to ascertain whether the spill has resulted in any exceedances at nearby sensitive receivers.

9. Emergency Response Team shall carry out spill investigation and complete the spill incident report with provision of improvement and preventive measures recommended. Site staff shall be briefed of these measures by the Emergency Response Team after the investigation.

5.2.2.3. Clean-up Instruction for Spillage Area greater than 100m^2

1. Follow items no. 1 to 8 of the procedures for spill responses for spillage area less than 100m^2.

2. The ET and Emergency Response Team shall carry out joint spill investigation and complete the spill incident report with provisions for improvement measures/ practices recommended to prevent re-occurrence and update this Emergency Spillage Plan as necessary. Site staff shall be briefed of these measures by the Emergency Response Team after the investigation and such measures shall be included in future drills and exercise.

3. A report of the spillage incident, including the investigation report and recommended improvement measures should be submitted to EPD.

5.2.3 Suspended Solids Spill into Marine Environment

With the deployment of silt curtains during boreholes drilling, the potential for adverse water quality impact due to suspended solids release during marine-based SI works is considered insignificant. Nevertheless, if the sediment collected during the drilling process unexpectedly released into the marine environment, the following spill response procedures shall be followed.

1. Emergency Response Team shall take immediate measures (in line with spill response training) to stop the source of the spill if the source is obvious and it is safe to do so.

2. Emergency Coordinator shall inform all relevant parties such as EPD, CEDD, ET and IEC immediately and keep these parties informed throughout the spill response.

3. Emergency Coordinator shall provide all details of the spill to the ET.

4. The ET shall undertake a rapid spill evaluation to identify (based on spill location, quantity, type of material, tidal conditions and proximity to sensitive receivers) whether any sensitive receivers are immediately at risk from the suspended solids release, and recommend appropriate mitigation measures (e.g. deployment of temporary silt curtains at sensitive receiver locations) to CEDD and IEC accordingly.

5. Emergency Coordinator shall immediately implement the mitigation measures as requested by CEDD based on the ET's rapid spill evaluation.

6. The ET shall review existing monitoring data and conduct additional monitoring if necessary to ascertain whether the spill has resulted in any exceedances at nearby sensitive receivers (if the rapid spill evaluation has identified sensitive receivers to be at risk from the suspended solids release).

7. The ET shall identify the need for any further mitigation measures in consultation with CEDD and IEC.

8. Emergency Coordinator shall implement further mitigation measures as requested by CEDD.

9. The ET shall review the effectiveness of the Contractor's mitigation measures and the updated situation until such time as all sensitive receivers show no exceedance in suspended solids levels.

10. Emergency Response Team shall assist the ET to prepare a spill investigation report to identify the cause/ reason for the spill and the improvement measures/ practices to prevent re-occurrence, and update this Emergency Spillage Plan if necessary.

6. Preparation and Implementation of Emergency Response Plan

6.1 Training to Site Personnel

6.1.1 All construction site workers shall be introduced to this Emergency Spillage Plan during the environmental induction training and toolbox talks, which should be carried out by the Contractor.

6.1.2 During the induction training and toolbox talks, a demonstration of the containment methods and equipment shall be carried out. Contractor shall conduct toolbox talks with the site workers regarding this Emergency Spillage Plan periodically. Examples of spill related training topics are presented in **Table 6.1**.

Table 6.1 Spill Related Training Topics

Training Topic	Applicable Personnel
Introduction to the Emergency Spillage Plan and its requirements on spill response	All construction site workers
Spill prevention and detection	All construction site workers
Work safety around the spill	All construction site workers
Containment of spill	All construction site workers
Recovery and clean-up of spill	Spill clean-up crew
Handling and disposal of waste generated from spill	Spill clean-up crew

6.1.3 The Emergency Coordinator shall ensure that all relevant workers receive the appropriate spill related training prior to undertaking activities that may lead to spillage or involve spill response. A training record shall be maintained by the Contractor to register the training provided and each individual's signoff to acknowledge that the training was attended and the content is understood. The training record should be made readily available to the ET and IEC for checking and auditing. Refresher training shall be provided regularly and all relevant workers shall attend and signoff subsequent refresher training at least once every year.

6.1.4 Regular drills would be carried out to ensure all site workers, especially the Emergency Response Team Members, are proficient in their assigned duties. Where applicable, spill incident will be simulated, drilled and practiced at least annually. Relevant parties including CEDD, ET and IEC and relevant authorities such as EPD, FSD, MD, AFCD and Police would be invited to participate and/or witness the drill exercises.

6.2 Spill Control Equipment

6.2.1 At least one set of spill kit should be provided and stored on site near each storage area for chemicals or chemical waste. At least three sets of spill kits should be available aboard each vessel involved in marine works. An additional set of spill kit should be located near the Emergency Response Team's office.

Additional spill kits should also be provided on site at locations or activities with a higher risk of spills. Contractor shall ensure that sufficient spill kits are available on site at all times. Contractor shall ensure that all workers are aware of the locations of spill kits. The details and specifications of spill kits are provided in **Appendix C**.

6.2.2 Regular (at least quarterly and after each spillage event) inspections and stocktaking of the resource materials in the spill response kit should be carried out by the Emergency Response Team. Regular (at least annually) checking and testing of the function and validity of the resource materials should also be carried out by the Emergency Response Team.

6.3 Submission of Spillage Incident Report

6.3.1 The Emergency Response Team shall submit a draft spillage incident report to CEDD, ET and IEC within 2 days after the incident occurred. The draft incident report should include but not limited to the followings:

- Details of the spillage incident;
- Clean up actions taken;
- Any residues of the spill remaining in the environment;
- Follow up or monitoring actions taken if required; and
- Photo records.

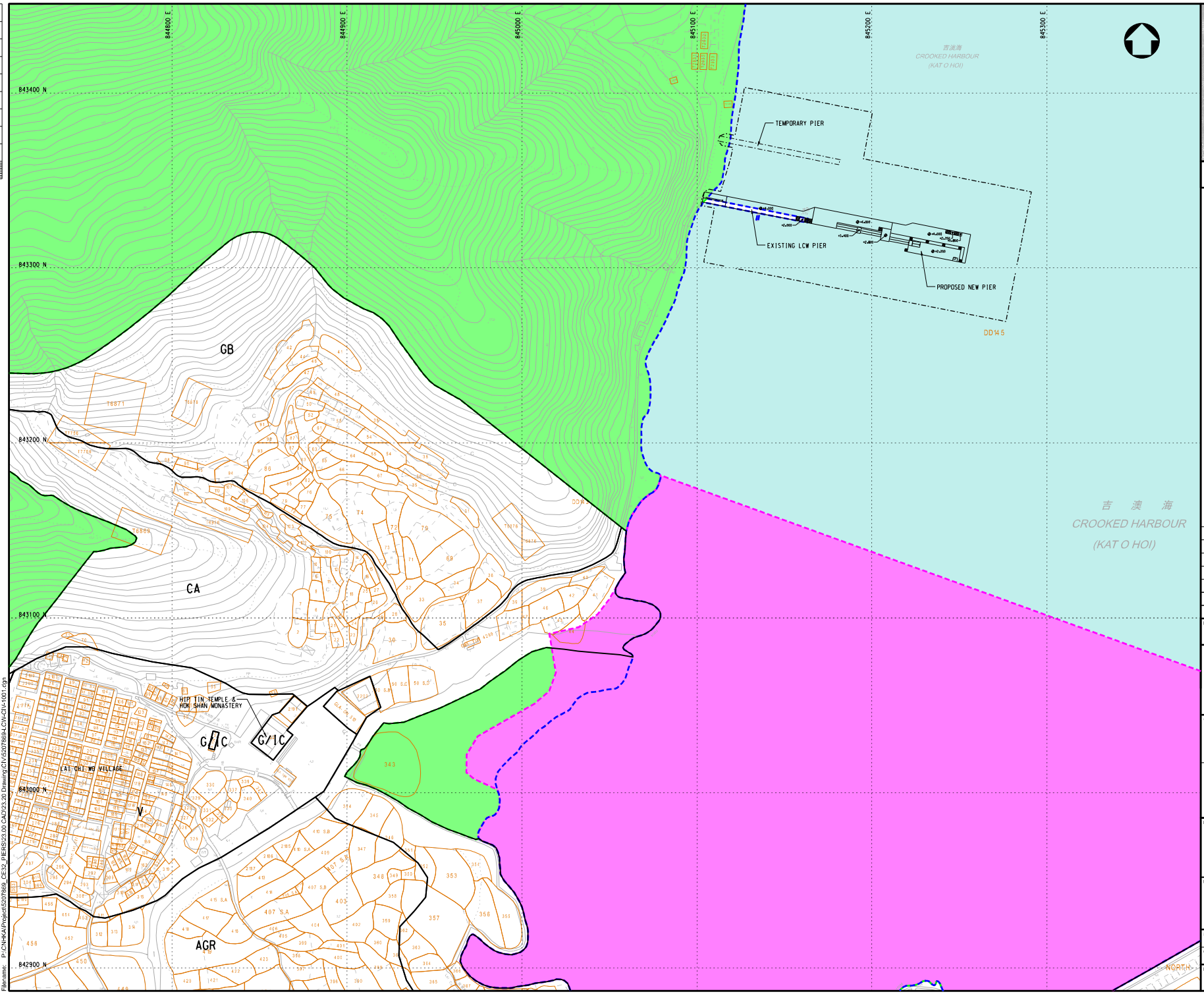
A spillage incident record template is provided in **Appendix D**.

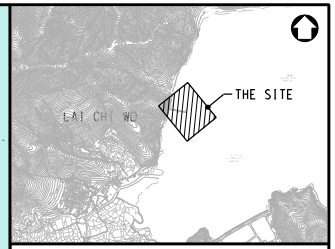
6.3.2 A full investigation report of the spillage incident shall be submitted to CEDD, ET and IEC within 2 weeks after the incident occurred. In addition to the details of the draft incident report, the full report will provide the reasons for the spillage and evaluate the effectiveness of the procedures and precautionary measures taken and specified in this Emergency Spillage Plan. Where applicable, additional mitigation measures will be proposed and implemented to prevent similar occurrence of spillage.

6.4 Recording and Data Keeping

6.4.1 The Emergency Spillage Plan should be kept in an easily accessible place on site. Previous spillage incident reports should also be kept for reference in case of similar spillage events. All records of self-inspection, checking and testing, drills and training should be kept for record and reference.

Figure





KEY PLAN
SCALE 1:10000

NOTES:

1. THE ENTIRE SITE IS SITUATED INSIDE THE AREA OF HONG KONG UNESCO LOBAL GEOPARK.

LEGEND:

	MARINE PARK
	COUNTRY PARK
	SITE OF SPECIAL SCIENTIFIC INTEREST (SSSI)
	LAND LOT W/LAND LOT NO.
V	VILLAGE TYPE DEVELOPMENT
AGR	AGRICUL TURE
CA	CONSERVATION AREA
G/IC	GOVERNMENT, INSTITUTION OR COMMUNITY
GB	GREEN BELT

Rev.	Date	Description	By	Chk'd	App'd
A	DEC 2021	FIRST ISSUE	KLC	JC	SW

Drawing Status: DESIGN

Suitability: -

ATKINS
Member of the SNC-Lavalin Group

Client: CEDD 土木工程拓展署 Civil Engineering and Development Department

土木工程處
CIVIL ENGINEERING OFFICE

Project Title:
AGREEMENT NO. CE 32/2021 (CE)
IMPROVEMENT WORKS AT LAI CHI WO PIER AND TUNG PING CHAU PUBLIC PIER - DESIGN AND CONSTRUCTION

Drawing Title:
Location Plan of Lai Chi Wo Pier

Scale	Designed	Drawn	Checked	Authorised
1:1000	SC	KLC	JC	SW
Original Size	Date	Date	Date	Date
A1	DEC 2021	DEC 2021	DEC 2021	DEC 2021

Drawing Number: Figure 1

Revision: A

User name: CHAN9162
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Date:14/12/2021 Time: 16:28:21

吉澳海
CROOKED HARBOUR
(KAT O HOI)

845200 E
843400 N
843300 N
845100 E

LBH1
LBH2
LBH3
LBH4

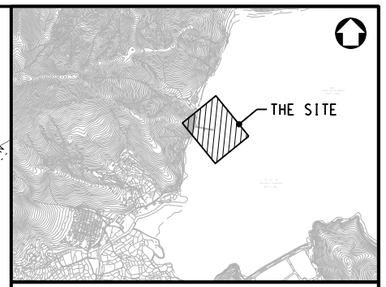
LCW/BH1
LCW/BH2
LCW/BH3
LCW/VC1
LCW/VC2

PROPOSED NEW PIER
PROPOSED TEMPORARY PIER
PROPOSED NEW PIER
EXISTING PIER
TO BE MAINTANIED

-3 -2 -1 0 +1

0 10 100 Millimetres

0 5 10 m
1 : 250 SCALE BAR



KEY PLAN
SCALE 1:10000

NOTES:

1. ALL DIMENSIOS ARE IN MILLIMETRES AND ALL LEVELS ARE IN METRES WITH REFERENCE TO HONG KONG PRINCIPAL DATUM (mPD) UNLESS NOTED OTHERWISE.

LEGEND:

- GAZETTED COUNTRY PARK BOUNDARY
- PROPOSED WORKS AREA
- -1 ——— -1 SEABED LEVEL
- LCW/BH1 EXISTING BOREHOLE
- LCW/VC1 EXISTING VIBROCORE
- LBH1 PROPOSED BOREHOLE

TENTATIVE COORDINATES FOR PROPOSED GROUND INVESTIGATION

BOREHOLE MARK	EASTING	NORTHING
LBH1	845230.962	843308.443
LBH2	845199.719	843327.221
LBH3	845166.256	843344.433
LBH4	845252.779	843305.946

Rev.	Date	Description	By	Chk'd	App'd
-	OCT 2021	FIRST ISSUE	MD	IW	SW

Drawing Status: DESIGN
Suitability: -

ATKINS
Member of the SNC-Lavalin Group

Client: CEDD 土木工程拓展署 Civil Engineering and Development Department

土木工程處
CIVIL ENGINEERING OFFICE

Project Title:
AGREEMENT NO. CE 32/2021 (CE)
IMPROVEMENT WORKS AT LAI CHI WO PIER AND TUNG PING CHAU PUBLIC PIER - DESIGN AND CONSTRUCTION

Drawing Title:
LAI CHI WO PIER -
GROUND INVESTIGATION LOCATION PLAN

Scale	Designed	Drawn	Checked	Authorised
1:250	MD	WMC	IW	SW
Original Size: A1	Date: OCT 2021	Date: OCT 2021	Date: OCT 2021	Date: OCT 2021

Drawing Number: Figure 2
Revision: -

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Appendix A

Contacts of Relevant Government Departments and Parties for Spillage Reporting

Appendix A

Contacts of Relevant Government Departments and Parties for Spillage Reporting

Contractor's Emergency Response Team

Role	Position	Name	Contact No.
Emergency Coordinator	Site Agent	Li Chi Kwong	9196 0770
Deputy Emergency Coordinator	Sub-Agent	Shek Kam Tim	9235 9199
	Sub-Agent	Jerry Lau	6353 5489
	Sub-Agent	Chung Wing Suen	6370 2753
Emergency Response Team Member	Safety Officer / Environmental Representative	Chan Chi Hang	5362 4472
	Safety Supervisor / First Aider / Foreman	Yip Wing Chuen	9660 6027
	Safety Representative	Tam Tai Shing	6281 5077

Project / Environmental Team

Party	Position	Name	Contact No.
Engineer's Representative (Atkins China Limited)	Project Manager	Sean Wong	2972 1000
Environmental Team (Atkins China Limited)	Environmental Team Leader	Arthur Lo	2972 1000
Independent Environmental Checker (Wilson Acoustics Limited)	Independent Environmental Checker	Morgan Cheng	2637 0623

Relevant Government Departments

Government Department	Contact No.
General Emergency Services	999
Labour Department	2717 1771
Fire Services Department	2723 8787
Agriculture, Fisheries and Conservation Department	2708 8885
Environmental Protection Department	2838 3111
Marine Department	2542 3711
Vessel Traffic Centre	2233 7801
Maritime Rescue Coordination Centre	2233 7999
Marine Police Regional Command and Control Centre	3660 8622
Sha Tau Kok Fire Station	2674 0679
Fanling Ambulance Depot	2669 2250
Tai Po Ambulance Depot	2658 0359
Alice Ho Miu Ling Nethersole Hospital	2689 2000
North District Hospital	2683 8888

Appendix A

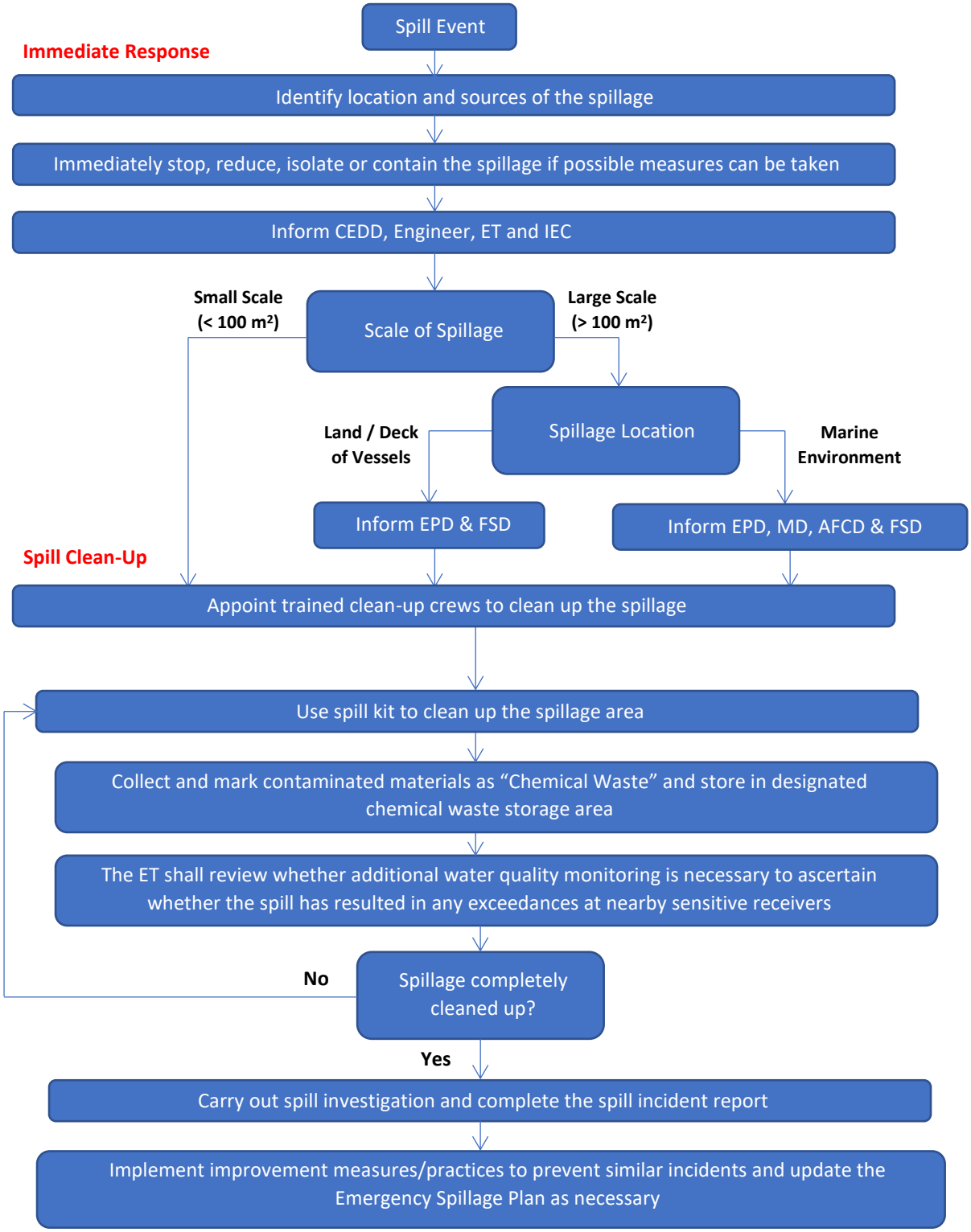
Utility Companies

Utility Company	Contact No.
China Light and Power Co. Ltd.	2728 8333
China Gas Co. Ltd.	2880 6999

Appendix B

Flow Chart of Spillage Response Procedures

Appendix B - Flow Chart of Spillage Response Procedures



Appendix C

Details of Spill Kits

Summary of Spill Control Equipment

Item	Product Description	Quantity
1	"SPC" SPC100 吸油棉(片裝) 38 x 48cm, 有孔隙 (吸油專用), (100 片 / 包) – attached in Appendix A.	1 bag
2	"SPC" OIL412 吸油條(條狀), 7.6 x 122cm (吸油專用),12 條 / 盒 – attached in Appendix B.	1 box
3	"SPC" OIL1818 吸油枕(枕包狀), 46 x 46 x 5cm (吸油專用),16 枕包 / 盒 – attached in Appendix C.	1 box
4	"SPC" 5 加侖 經濟型吸油綿處理套裝(通用型 Allwik) SKA-PP – attached in Appendix D.	1 set
5	“Red A” Pail with Iron Handle (23L), 350 x 350mm – attached in Appendix E.	1 Unit
6	“Red A” Pail Cover, 360mm(diameter) – attached in Appendix F.	1 Unit
7	"SMAAT" 8900 (OTG-R) 防撞擊安全眼鏡	1 pair
8	"POLISON" B1YE 黃色頭架	1 pcs
9	"POLISON" FC25 Polycarbonate 透明面擋 8" x 12"	1 pcs
10	NEO400 黑色橡膠手套 Size: L (09)	1 pair

Appendix A

SPC105 features blue coverstock on one side.

SPC® Oil Absorbents

- Brady SPC's best-selling oil only pads for industrial or marine use
- Floats indefinitely even when saturated with oil
- Efficient single-ply construction of MAXX® Technology – absorption and strength without the extra weight
- Packaged in a blue bag to streamline absorbent identification in your facility

Features:

- For Oils, Coolants, Solvents and Oil-based Fluids
- No Coverstock (1-Ply)
- Medium Durability
- Medium Linting
- Perforated & Dimpled
- Floats Indefinitely
- Heavy, Medium & Light Weights
- Cost: $ $

Recommended For:

- Anywhere there is a leak, drip or spill
- Marine and environmental spills
- Oil refineries / fuel chemical
- General manufacturing

Catalog #	Type	Size	Perforated	Absorbency Factor (gl/gs)	Absorbency Capacity (gal)	Shipping Wt (lbs)	Pallet Qty.	Quantity
Pads								
SPC50	Heavy Wt. Pad	33"x39"	No	18	73	33.5	10	50/bale*
SPC100	Heavy Wt. Pad	15"x19"	Yes, 7.5"	18	35	14	30	100/bale*
SPC105	Heavy Wt. Pad (1 side w/blue coverstock)	15"x19"	Yes, 7.5"	18	24	14	30	100/bale*
SPC300	Medium Wt. Pad	15"x19"	Yes, 7.5"	18	30	11	30	100/bale*
SPC200	Light Wt. Pad	15"x19"	Yes, 7.5"	18	40	16	24	200/bale*
SPC500	Light Wt. Pad	15"x19"	Yes, 7.5"	18	20	8.2	36	100/bale*
Rolls								
SPC150	Heavy Wt. Roll	38"x144'	No	15	70	33	18	1/bale*
SPC152	Heavy Wt. Roll	19"x144'	No	15	70	33	18	2/bale*

**SPC Oil Absorbents packaged in a blue bag.*

BASIC Oil Absorbents

- Value-priced oil only absorbent
- Floats indefinitely even when saturated with oil
- Packaged in a clear bag to streamline absorbent identification in your facility
- Economical single-ply pads & rolls made of oil only meltblown polypropylene

Features:

- For Oils, Coolants, Solvents and Oil-based Fluids
- No Coverstock (1-Ply)
- Light Durability
- High Linting
- Perforated & Dimpled
- Floats Indefinitely
- Heavy & Light Weights
- Cost: $

Recommended For:

- Anywhere there is a leak, drip or spill
- General industrial or manufacturing oil only applications
- Marine and environmental spills
- Coast guard or on-board vessels

Catalog #	Type	Size	Perforated	Absorbency Factor (gl/gs)	Absorbency Capacity (gal)	Shipping Wt (lbs)	Pallet Qty.	Quantity
Pads								
BPO100	Heavy Wt. Pad	15"x17"	Yes, 7.5"	18	20.5	8.5	30	100/bale
BPO200	Light Wt. Pad	15"x17"	Yes, 7.5"	18	34	14	24	200/bale
BPO500	Light Wt. Pad	15"x17"	Yes, 7.5"	18	17	7	36	100/bale
Rolls								
BRO150	Heavy Wt. Roll	30"x150"	Yes, every 30"	14.5	38	19.5	18	1/bale
BRO152	Heavy Wt. Split Roll	15"x150"	Yes, every 30"	14.5	38	19.5	18	2/bale

Appendix B

SOCs, Pillows & Drum Covers

BradyID.com/s35

Universal SOCs

- All-purpose SOCs to clean-up oils, coolants, solvents and water-based fluids throughout your facility
- Gray color masks spills and stains – helping you resist the urge to pick up the absorbent before it is fully saturated

Catalog #	Type	Size	Absorbency Factor (gl/gs)	Absorbency Capacity (gal)	Shipping Wt (lbs)	Pallet Qty.	Quantity
ALLWIK Universal SOCs							
AW124	SOC	3"x12'	9	12	12	40	4/case
AW806	SOC	3"x8'	9	12	12	30	6/case
AW430	SOC	3"x4'	9	30	26	15	30/case
AW412	SOC	3"x4'	9	12	12	36	12/case
SLIKWIK Universal SOCs							
SW46	SOC	3"x3.5'	3	20	50	16	40/case
Cobra Coil™ Universal SOCs							
CC400	SOC	3"x4'	8.5	8.5	29	48	12/case
BASIC Universal SOCs							
BSC40	SOC	3"x3.5'	15	84	47.5	12	40/case
BSC20	SOC	3"x3.5'	15	40.5	24	24	20/case
Re-Form™ Universal SOCs							
MS124	SOC	3"x12'	8.5	12	12	36	4/case
MS806	SOC	3"x8'	8.5	12	12	30	6/case
MS50	SOC	3"x4'	7	40	43	10	40/case
MS412	SOC	3"x4'	8.5	12	12	36	12/case
SpillFix Granular SOCs							
SF-10BOOM	SOC	4" x 10'	4.5	6	20	48	2/case
SF-5BOOM	SOC	4" x 5'	4.5	6	16	48	4/case

ALLWIK® Polypropylene SOC

SLIKWIK® Corn Cob SOC

Cobra Coil® Vermiculite SOC

BASIC Cellulose SOC

Re-Form™ Recycled Newsprint SOC

SpillFix Granular SOCs

Oil Only & Re-Form™ Oil Only SOCs

- Absorbs oil, grease, transmission fluid, coolant and other petroleum based liquids. Repels water and floats for outdoor applications
- Wringable and can be incinerated
- Strong wicking action: absorption begins instantly after contact with the spilled liquid, no need to turn the SOC
- Re-Form™ SOCs made from 80% all natural cotton fibers

Catalog #	Type	Size	Absorbency Factor (gl/gs)	Absorbency Capacity (gal)	Shipping Wt (lbs)	Pallet Qty.	Quantity
Polypropylene Oil Only SOCs							
OIL124	SOC	3"x12'	9	12	11	40	4/case
OIL806	SOC	3"x8'	9	12	11	30	6/case
OIL430	SOC	3"x4'	9	28	30	15	30/case
OIL412	SOC	3"x4'	9	12	11	36	12/case
Re-Form Oil Only SOCs							
RFO412	SOC	3"x4'	13.5	15	10.5	36	12/case

Oil Only Polypropylene SOC

Re-Form™ Oil Only SOC
(80% all natural cotton fibers)

BRIGHTSORB™ High Visibility SOCs & HAZWIK® SOCs

- Absorbs chemicals, acids and bases
- Flexible design is easily molded around spills
- BRIGHTSORB™ SOC's bright yellow color and print help prevent risk of slips, trips and falls

Catalog #	Type	Size	Absorbency Factor (gl/gs)	Absorbency Capacity (gal)	Shipping Wt (lbs)	Pallet Qty.	Quantity
BRIGHTSORB™ High Visibility Chemical SOCs							
CH124	SOC	3"x12'	9	12	12	40	4/case
CH412	SOC	3"x4'	9	12	12	36	12/case
HAZWIK Chemical SOCs							
HAZ124	SOC	3"x12'	9	12	12	40	4/case
HAZ412	SOC	3"x4'	9	12	12	36	12/case

BRIGHTSORB™ Polypropylene SOCs
with high visibility color and print

HAZWIK® Polypropylene SOC

Absorbents & Spill Control

Appendix C

Pillows

Absorbent pillows are ideal for use under spill pallets or machines that are known to drip or leak. Pillows are easy to retrieve, and can soak up oil and water-based fluids in hard-to-reach areas including sumps, catch basins and outdoor ponds.

ALLWIK® Universal Pillows

- All-purpose polypropylene pillow
- Suitable for most industrial applications
- Ideal under valves and for other dripping applications

ALLWIK® Universal Pillow

Oil Only Pillows

- Specialized oil only polypropylene pillow will not absorb water or water-based solutions
- Ideal for outdoor use in waste troughs, coolant tanks, fluid reservoirs and sump wells

Oil Only Pillow

BRIGHTSORB™ High Visibility and Chemical HAZWIK®

- Absorb chemicals, acids and bases
- Ideal for extra protection during packaging and transport
- BRIGHTSORB™ High Visibility pillows feature a bright yellow color and print to help prevent slips, trips and falls

BRIGHTSORB™ Chemical Pillow with high visibility color and print

HAZWIK® Chemical Pillow

Catalog #	Type	Size	Absorbency Factor (gl/gs)	Absorbency Capacity (gal)	Shipping Wt (lbs)	Pallet Qty.	Quantity
Universal Pillows							
AW1818	Pillow	18"x18"	12.5	28	19	15	16/case
AW99	Pillow	9"x9"	12.5	14	10	40	32/case
Oil Only Pillows							
OIL1818	Pillow	18"x18"	12.5	28	19	15	16/case
OIL99	Pillow	9"x9"	12.5	14	10	40	32/case
BRIGHTSORB™ High Visibility Pillows							
CH1818	Pillow	18"x18"	12.5	14	9.5	15	16/case
HAZWIK Chemical Pillows							
HAZ1818	Pillow	18"x18"	12.5	14	9.5	15	16/case
HAZ99	Pillow	9"x9"	12.5	10	14	40	32/case

Drum Covers

ALLWIK® Universal & Oil Only Drum Covers

- Designed to fit 55-gallon drums – pre-cut holes fit drums with 1 or 2 bungholes
- Create a clean and safe work floor by helping to prevent pump drips from reaching the floor
- Liquids absorbed:
  - Universal covers absorb water-, oil- and chemical-based liquids
  - Oil Only covers absorb oil- and petroleum-based liquids and repel water

ALLWIK® Universal Drum Covers

Oil Only Drum Covers

Catalog #	Type	Size	Absorbency Factor (gl/gs)	Absorbency Capacity (gal)	Shipping Wt (lbs)	Pallet Qty.	Quantity
Universal Drum Cover							
DTA25	Drum Cover	22" dia.	12.5	6	6	60	25/case
Oil Only Drum Cover							
DTO25	Drum Cover	22" dia.	12.5	6	6	60	25/case

Appendix D

Absorbents & Spill Control

BradyID.com/s35

Small
Medium
Large

Small Spill Response Kits (cont.)

Available with BRIGHTSORB™ High Visibility Absorbents

Economy Spill Kit

- Highly visible, yellow PVC bag for small spills; the right price, the right size and the right value
- Absorbs up to 5 gallons per kit
- Kit dimensions: 20"L x 16"W x 4"H

Contents:
- 10 pads (15" x 19")
- 2 SOCs (3" x 4')
- 1 disposal bag
- 1 pair nitrile gloves
- 1 instruction sheet

Catalog #	Type	Absorbency Capacity (gal)	Shipping Wt (lbs)	Pallet Qty.	Qty.
SKA-PP	Universal	5	24	20	4/case
SKA-PP-TAA	Universal	5	24	20	4/case
SKO-PP	Oil Only	5	24	20	4/case
SKCH-PP	BRIGHTSORB High Visibility	5	24	20	4/case
SKH-PP	Chemical	5	24	20	4/case
SKR-PP	Re-Form	5	24	20	4/case

Emergency Response Kit

- Quickly assess the absorbents you have through the clear shoulder bag when you respond to the spill
- Absorbs up to 15 gallons per kit
- Kit Dimensions: 25.5"L x 17"W x 21.5"H

Contents:
- 32 pads (15" x 19")
- 5 SOCs (3" x 4')
- 1 pillow (18" x 18")
- 2 disposal bags
- 1 pair goggles
- 1 pair nitrile gloves
- 1 instruction sheet

Catalog #	Type	Absorbency Capacity (gal)	Shipping Wt (lbs)	Pallet Qty.	Qty.
SKA-CFB	Universal	15	25	24	1/case
SKO-CFB	Oil Only	15	25	24	1/case
SKH-CFB	Chemical	15	25	24	1/case

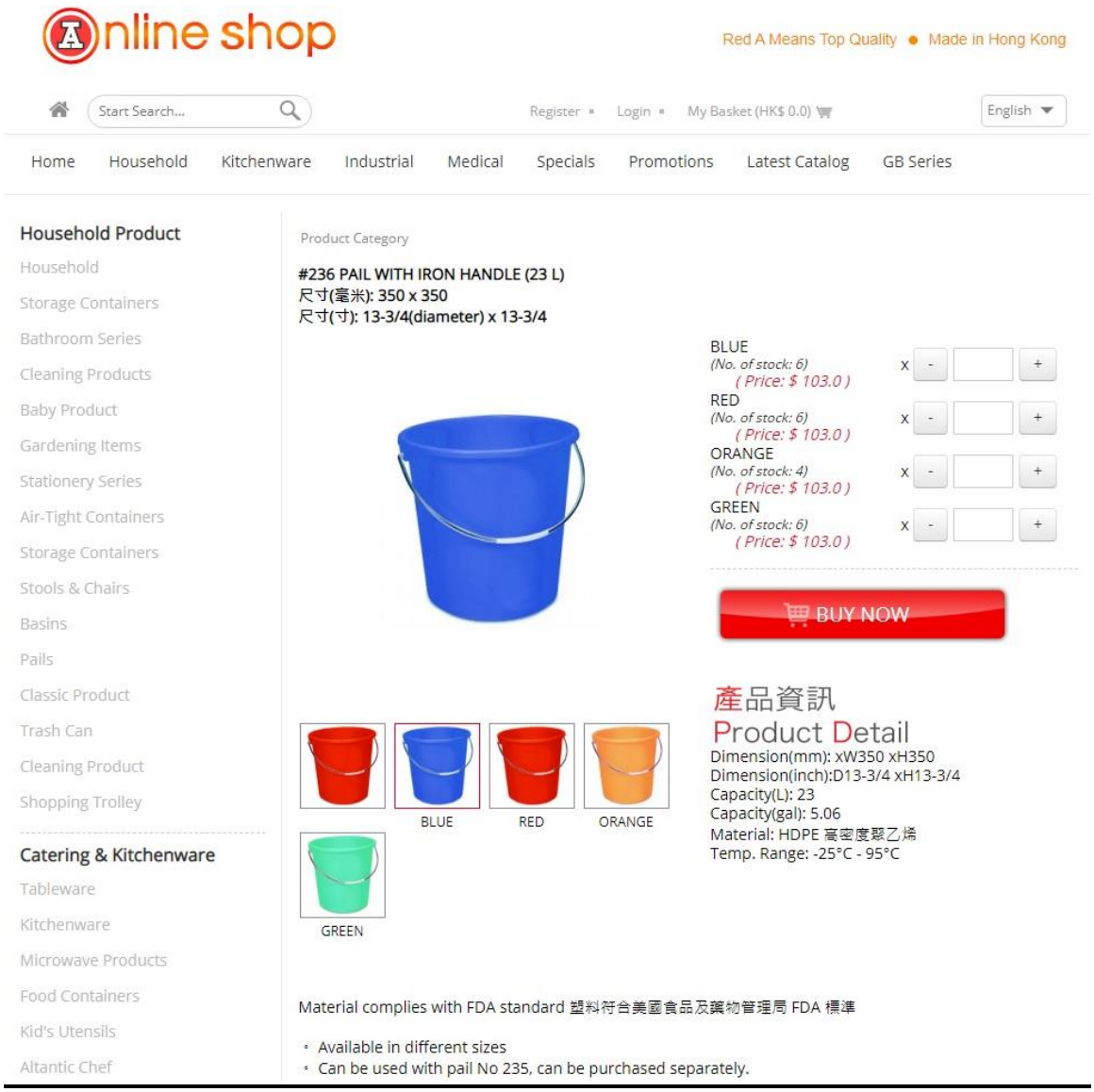
Emergency Spill Sak

- Portable economy spill kit packed in a reusable sack
- Absorbs up to 10 gallons per kit
- Kit dimensions: 32"L x 20"W x 12"H

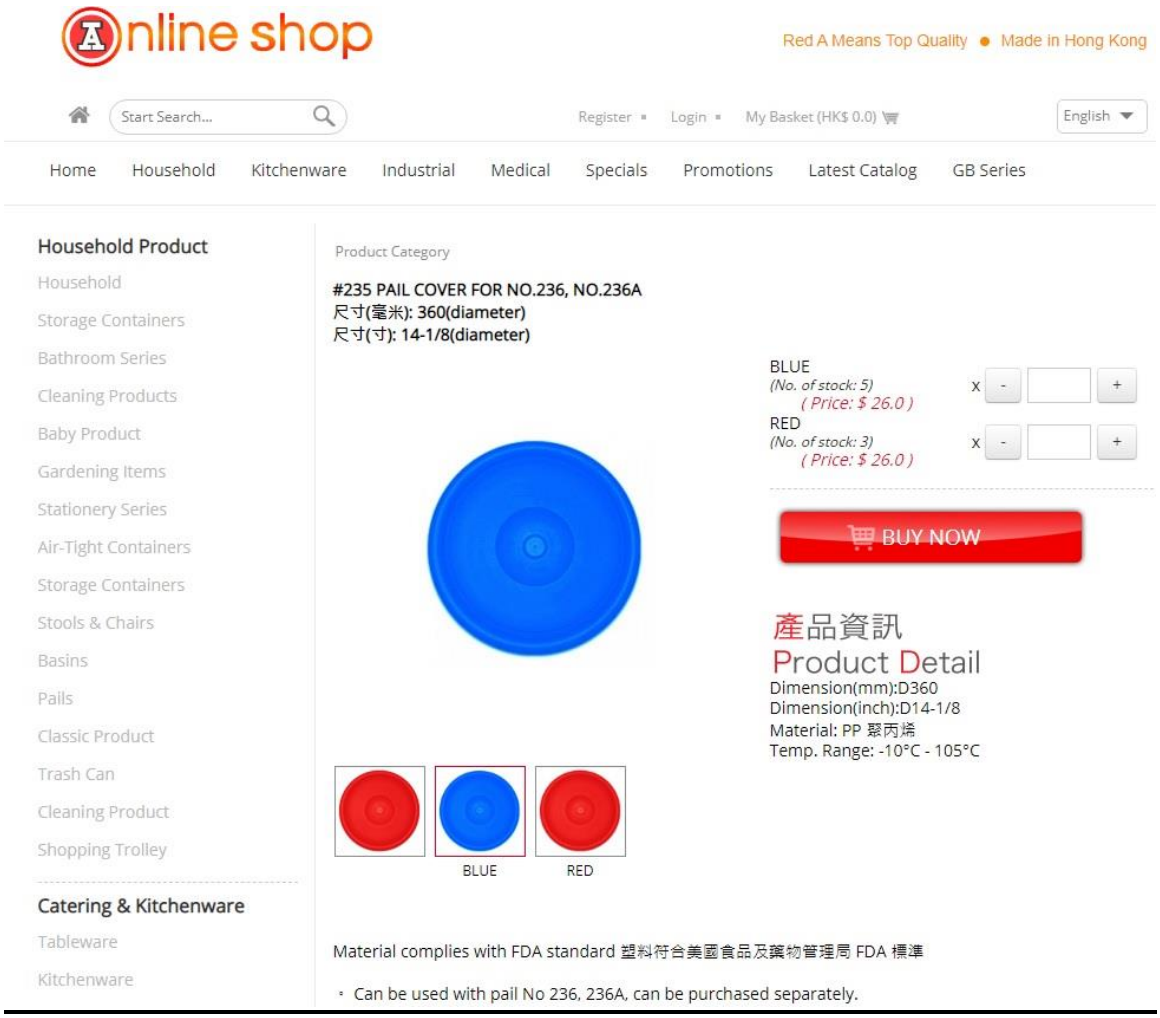
Contents:
- 10 pads (15" x 19")
- 2 SOCs (3" x 12')
- 1 pillow (18" x 18")
- 1 disposal bag
- 1 pair nitrile gloves
- 1 instruction sheet

Catalog #	Type	Absorbency Capacity (gal)	Shipping Wt (lbs)	Pallet Qty.	Qty.
SKA-SAK	Universal	10	10	40	1/each
SKO-SAK	Oil Only	10	10	40	1/each
SKH-SAK	Chemical	10	10	40	1/each

Appendix E


Online shop
Red A Means Top Quality • Made in Hong Kong
Start Search...
Register
Login
My Basket (HK$ 0.0)
English
Home
Household
Kitchenware
Industrial
Medical
Specials
Promotions
Latest Catalog
GB Series
Household Product
Household
Storage Containers
Bathroom Series
Cleaning Products
Baby Product
Gardening Items
Stationery Series
Air-Tight Containers
Storage Containers
Stools & Chairs
Basins
Pails
Classic Product
Trash Can
Cleaning Product
Shopping Trolley
Catering & Kitchenware
Tableware
Kitchenware
Microwave Products
Food Containers
Kid's Utensils
Altantic Chef
Product Category
#236 PAIL WITH IRON HANDLE (23 L)
尺寸(毫米): 350 x 350
尺寸(寸): 13-3/4(diameter) x 13-3/4
BLUE
(No. of stock: 6)
(Price: $ 103.0)
RED
(No. of stock: 6)
(Price: $ 103.0)
ORANGE
(No. of stock: 4)
(Price: $ 103.0)
GREEN
(No. of stock: 6)
(Price: $ 103.0)
BUY NOW
BLUE
RED
ORANGE
GREEN
產品資訊
Product Detail
Dimension(mm): xW350 xH350
Dimension(inch):D13-3/4 xH13-3/4
Capacity(L): 23
Capacity(gal): 5.06
Material: HDPE 高密度聚乙烯
Temp. Range: -25°C - 95°C
Material complies with FDA standard 塑料符合美國食品及藥物管理局 FDA 標準
Available in different sizes
Can be used with pail No 235, can be purchased separately.

Appendix F


Online shop
Red A Means Top Quality ● Made in Hong Kong
Start Search...
Register ▪ Login ▪ My Basket (HK$ 0.0)
English
Home Household Kitchenware Industrial Medical Specials Promotions Latest Catalog GB Series
Household Product
Household
Storage Containers
Bathroom Series
Cleaning Products
Baby Product
Gardening Items
Stationery Series
Air-Tight Containers
Storage Containers
Stools & Chairs
Basins
Pails
Classic Product
Trash Can
Cleaning Product
Shopping Trolley
Catering & Kitchenware
Tableware
Kitchenware
Product Category
#235 PAIL COVER FOR NO.236, NO.236A
尺寸(毫米): 360(diameter)
尺寸(寸): 14-1/8(diameter)
BLUE
(No. of stock: 5)
(Price: $ 26.0)
x - +
RED
(No. of stock: 3)
(Price: $ 26.0)
x - +
BUY NOW
產品資訊
Product Detail
Dimension(mm):D360
Dimension(inch):D14-1/8
Material: PP 聚丙烯
Temp. Range: -10°C - 105°C
BLUE
RED
Material complies with FDA standard 塑料符合美國食品及藥物管理局 FDA 標準
◦ Can be used with pail No 236, 236A, can be purchased separately.

Appendix D

Spillage Incident Record Template

Appendix D

Spillage Incident Record Template

Basic Information of the Spillage Incident	
Date and Time of Incident	
Location of the Spill	
Nature of the Affected Location	
Type of Spill (For chemicals and hazardous materials, please specify the name)	
Approximate Quantity and Size of the Spill	
Date and Time of Notification	
Person Reporting the Incident	

Details of the Spillage Incident

Investigation on Possible Cause(s)

Remedial Actions
Clean Up Actions

Remedial Actions
Mitigation Measures
Preventive Measures

Prepared by:

Reviewed by:

Date:

Appendix E

Environmental Mitigation Implementation Schedule

Appendix E

Environmental Mitigation Implementation Schedule

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location / Timing of implementation of Measures	What requirements or standards for the measures to achieve?
Construction Phase						
S5.4.4	W3	Marine-based Site Investigation (SI) Works A number of good practices and mitigation measures are recommended for site investigation works are given as below: ▪ Before commencement of drilling works, all drill rig, circulation tank and equipment shall be thoroughly cleaned off-site; ▪ Throughout the drilling process, seawater shall be used for flushing medium and no lubricant, hydraulic fluid or other additives shall be introduced; ▪ The drilling fluid shall be circulated within the system through the circulation tank, where the recycled fluid with small amount of sediment shall be settled and collected in the tank; ▪ Prior to actual sampling, an outer casing shall be placed on the seabed level to avoid the spillage of sediment and water containing suspended solids (SS); ▪ After the completion of sampling work, casing shall be cleaned by the recycled water and collected back to the circulation tank. The inner and outer casing shall then be extracted slowly to the barge deck and the sediment collected in the tank during the drilling process shall be delivered to the depot of the Contractor; ▪ Final disposal of the drilling fluid should be discharged offsite and outside the Country Park, Marine Park, Site of Special Scientific Interest (SSSI) and other water sensitive receivers (WSRs) with a valid discharge license under Cap. 358 Water Pollution Control Ordinance (WPCO) with the provision of silt removal facilities, or to the depot of the Contractor; and ▪ To ensure all geotechnical and environmental samples will be collected within the casing without any contact with the surrounding water bodies.	Minimize water quality impact from site investigation works	Contractor	All SI site areas during construction stage	WPCO

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location / Timing of implementation of Measures	What requirements or standards for the measures to achieve?
S5.4.4	W6	Provide locks for all fuel tanks and storage areas and locate on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching WSRs nearby.	Minimize water quality impact from construction site runoff and general construction activities	Contractor	All site areas during construction stage	▪ WPCO ▪ ProPECC PN1/94 ▪ EIAO-TM
S5.4.4	W7	Accidental Spillage of Chemicals To reduce the potential water quality impact due to accidental spillage of chemicals, the following mitigation measures should be implemented to avoid potential adverse water quality impacts: ▪ Properly store and contain the chemicals used during construction, such as fuel, oil, solvents and lubricants in a designated area with secondary containment to prevent spillage and contamination of the nearby water environment; ▪ Preferably carry out any maintenance activities and workshops with chemicals use outside the Project Site given the advantage that machineries located on barges can be easily relocated; and ▪ The Contractor shall register as a chemical waste producer and employ licensed collector for collection of chemical waste from the construction site. Any chemical waste generated shall be managed in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	To minimize water quality impact from accidental spillage of chemicals	Contractor	All site areas during construction stage	▪ WPCO ▪ TM-DSS ▪ WDO
S6.3.7	WM8	Chemical Waste ▪ If chemical wastes are produced at the construction site, the Contractor should register with EPD as chemical waste producer. Chemical wastes should be stored in appropriate containers and collected by a licensed chemical waste collector. Chemical wastes (e.g. spent lubricant oil) should be recycled at an appropriate facility as far as possible, while the chemical waste that cannot be recycled should be disposed of at either the Chemical Waste Treatment Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Control the chemical waste and ensure proper storage, handling and disposal	Contractor	All site areas during construction stage	▪ Waste Disposal (Chemical Waste) (General) Regulation ▪ Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes ▪ A Guide to the Chemical Waste Control Scheme (2016) ▪ A Guide to the Registration of Chemical Waste Producers (2016)

Sean WONG
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ATKINS
Member of the SNC-Lavalin Group

Our ref	5207869/18.30/OC130/AL/DL/SW/IW/JC/fl
Title:	Submission of Pier Design Plan, Emergency Spillage Plan and Works Vessel Travel Route Plan
Date	22 April 2022

Attachment 2

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ET Certification and IEC Verification Letters

ATKINS
Member of the SNC-Lavalin Group

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Your ref. -
Our ref 5207869/18.30/OC129/AL/DL/SW/IW/AL/fl

Date 21 April 2022

By Post and By Email
Civil Engineering and Development Department
Civil Engineering Office
Pier Improvement Unit
Projects Section 3
4/F, Civil Engineering and Development Building
101 Princess Margaret Road
Homantin, Kowloon

Attn: Mr. LEE Man Chow, Francis
Project Team Leader

Dear Sirs,

Agreement No. CE 32/2021 (CE)
Improvement Works at Lai Chi Wo Pier and Tung Ping Chau Public Pier – Design and Construction
Certification of Emergency Spillage Plan

Pursuant to Condition 2.12 of the Environmental Permit No. EP-586/2021, I hereby certify the Emergency Spillage Plan (Rev. 2) for the Site Investigation (GI) Works for the captioned Project.

Should you have any queries regarding the above, please feel free to contact us by telephone number 2972 1360.

Yours faithfully,
For and on behalf of
Atkins China Ltd

Arthur Hong Nam Lo
Environmental Team Leader

cc EPD - Ms. LAU Tai, Trista (Env Protection Offr (Strategic Assessment) 61)
Wilson Acoustic limited - Mr. Morgan Cheng (IEC)

Unit 601, Block A, Shatin Industrial Centre,
5 - 7 Yuen Shun Circuit, Shatin, NT
Tel: (852) 3188-1170, Fax: (852) 3422-8117
E-mail: who@wal.hk
Web: www.wal.hk

Our Ref: 21411-24

By Email & Fax

21 April 2022

Civil Engineering and Development Department
Civil Engineering and Development Building,
101 Princess Margaret Road,
Kowloon, Hong Kong

Attention: Mr. LEE Man-chow

Subject: **Agreement No. PI 2/2021 Independent Environmental Checker Services for Improvement Works at Lai Chi Wo Pier and Improvement Works at Tung Ping Chau Public Pier**
Verification of Emergency Spillage Plan (Rev 2)

Dear Mr Lee,

We refer to the email on 19 April 2022 from Atkins China Limited about Emergency Spillage Plan (Rev 2) for site investigation works at Lai Chi Wo Pier.

We have no further comment and hereby verify Emergency Spillage Plan for site investigation works as required under Condition 2.12 of the Environmental Permit (EP-586/2021).

Should you have any queries, please feel free to contact us by telephone number 2637-0623 or fax 3422-8117.

Yours sincerely

Morgan Cheng
Independent Environmental Checker, Wilson Acoustics Limited

ST

Encl.

c.c. Civil Engineering and Development Department (Attn.: Mr. YUNG Chung Bun, Thomas)
Environmental Protection Department (Attn.: Ms. LAU Tai, Trista)
Atkins China Limited (Attn.: Mr. Sean Wong)